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CALIFORNIA DIVISION OF OIL AND GAS  
HYDROCARBON-PRODUCING  
AQUIFER EXEMPTIONS

V 1A

CALIFORNIA

OIL AND GAS FIELDS





STATE OF CALIFORNIA  
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THE RESOURCES AGENCY  
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# CALIFORNIA OIL AND GAS FIELDS

## VOLUME 1 North and East Central California

A Publication of the  
CALIFORNIA DIVISION OF OIL AND GAS

Sacramento

1973

PRICE: \$14.50



### HOW TO USE THIS VOLUME

Volume I consists of oil and gas field maps and data sheets arranged alphabetically by the API regions North California and East Central California, shown on the index map on page vii. Turn to the index map first to determine in which region the field is located, then use the index tabs to find the region. All data sheets are arranged alphabetically; however, North Coles Levee will be found listed as Coles Levee, North, etc. Regional cross sections are found at the beginning of each regional section, as are the index maps outlining the productive areas of all fields in the region.

## INTRODUCTION

This volume is a compilation of oil and gas field geologic maps and statistical data for all fields in the API regions of North California and East Central California (see index map on page vii). It exhibits a departure in format from the original map and data sheet publication which first appeared in October 1960. Aside from the loose leaf format, which will permit planned periodic updating, many other changes have been made. For example, a typical or composite electric log is shown for most fields; and additional statistical data have been added.

This volume was prepared under the supervision of Raymond V. Roethermel, Publications Officer. George J. Borkovich, Northern Region Staff Engineer, coordinated the project, and Simon Cordova, Woodland staff engineer, was the editor of geologic names. Division of Oil and Gas Northern Region engineers in the Bakersfield, Coalinga, Woodland and Santa Maria offices participated in the preparation of the maps and data sheets and other personnel did the drafting, layout, and typing, therefore individual recognition would not be practical here. Contributions by companies and individuals not employed by the division are credited on those map sheets involved.

## MAJOR OCCURRENCES OF OIL AND GAS

### SAN JOAQUIN VALLEY

Oil and associated wet gas occur largely in the Miocene and Pliocene, with lesser quantities in the Eocene and Pleistocene Series, and very minor quantities in the Oligocene, Jurassic and Cretaceous Systems. Dry gas occurrence is minor, being found primarily in the Pliocene, Eocene and Upper Cretaceous.

### SACRAMENTO VALLEY AND OTHER NORTHERN CALIFORNIA BASINS

Dry gas occurs largely in the Eocene, Paleocene and Upper Cretaceous, with a lesser amount in the Pliocene and Miocene Series. Oil, which is very minor, occurs in Pliocene, Miocene, Eocene, Paleocene, and Upper Cretaceous strata.

## EXPLANATIONS

### MAP SHEETS

**Typical log** - A single electric log of a typical well in a particular oil or gas field. For convenience, long sections not needed for correlation purposes may have been removed in some logs. This is shown by the "~~~~~" symbol.

**Composite log** - Consists of a composite of two or more electric logs and is representative of the stratigraphy of a particular oil or gas field. Sections removed are shown by the symbol "~~~~~".

Note: Some typical or composite logs may be taken from wells outside administrative field boundaries and may therefore have greater depth than the deepest well in the field.

**Productive area** - Productive area may be shown in one of two ways:

- 1) By inference from well symbols placed on the contour map.
- 2) By shading (see legend) on contour map. Shading is also used on cross sections to indicate productive zones.

Productive area, as shown on contour maps, is the *maximum* productive area as of January 1, 1973. Productive area shown on index maps is generalized.

**Contour map** - Depth datum is sea level.








# Contour map legend:

	Drilling
	Drilling - idle
	Abandoned - dry hole
	Producing - oil
	Idle - oil
	Abandoned - oil
	Producing - gas
	Idle - gas
	Abandoned - gas
	Water disposal
	Oil well converted to water disposal
	Intersection of bore-hole and contoured horizon
	Productive area
	Contour line (good control)
	Contour line (poor control)
	Axis of anticline
	Axis of syncline
	Fault
	Possible fault
	Fault dip direction
	Fault movement (+ up, - down)
	Fault movement (lateral)

## Cross section legend:

	Oil zones
	Gas zones



	Correlation line (good control)
	Correlation line (poor control)
	Unconformity
	Fault
	Possible fault
	Fault movement (up/down)
	Fault movement (● toward observer, + away from observer)

**Scales** - Map scales can generally be inferred from public land survey data. When such an inference cannot be drawn, a map scale is shown.

Note: Cross sections depicted schematically are not necessarily drawn to scale.

## DATA SHEETS

Most listed items are self explanatory. A few, however, need additional elaboration.

**Discovery data** - Zones are listed in stratigraphic sequence.

**Producing zones** - The average depth means the *average* area or field depth to the *top* of the productive zone. The average net thickness means the average *productive* thickness of the zone and is only an approximation.

**Class BOPE required** - Division of Oil and Gas blowout prevention equipment class requirements, copies of which are available from any Division of Oil and Gas office. However, classes shown should be used only as a guide, *and do not represent final determination of blowout equipment required* on any particular well. There are 5 classes, Class I through V. The higher the class number, the more stringent the requirements.

**Spacing Act** - Refers to the application of Chapter 3, Division 3 of the Public Resources Code, *Spacing of Wells and Community Leases*. Final determination of well spacing requirements is made by the State Oil and Gas Supervisor and entries under "Spacing Act" *do not represent final judgement of whether or not the Spacing Act applies*.

## LIST OF ABBREVIATIONS

B&M	Base and Meridian
MD	Mount Diablo
SB	San Bernardino
H	Humboldt
psig	pounds per square inch (gauge)
bbl	barrels (42 U.S. gallons)
Mcf	1000 cubic feet
btu	British thermal unit
gr/gal	grains per gallon

cem.	cemented
N.A.	not available
--	not applicable
Abd.	Abandoned
Holo.	Holocene
Pleis.	Pleistocene
Plio.	Pliocene
Mio.	Miocene
Olig.	Oligocene
Eo.	Eocene
Paleoc.	Paleocene
Cret.	Cretaceous
Jur.	Jurassic
E or e*	early
M or m*	middle
L or l*	late
undiff.	undifferentiated

\* Capitals are used for system age, lower case for series age.

# California Oil and Gas Fields





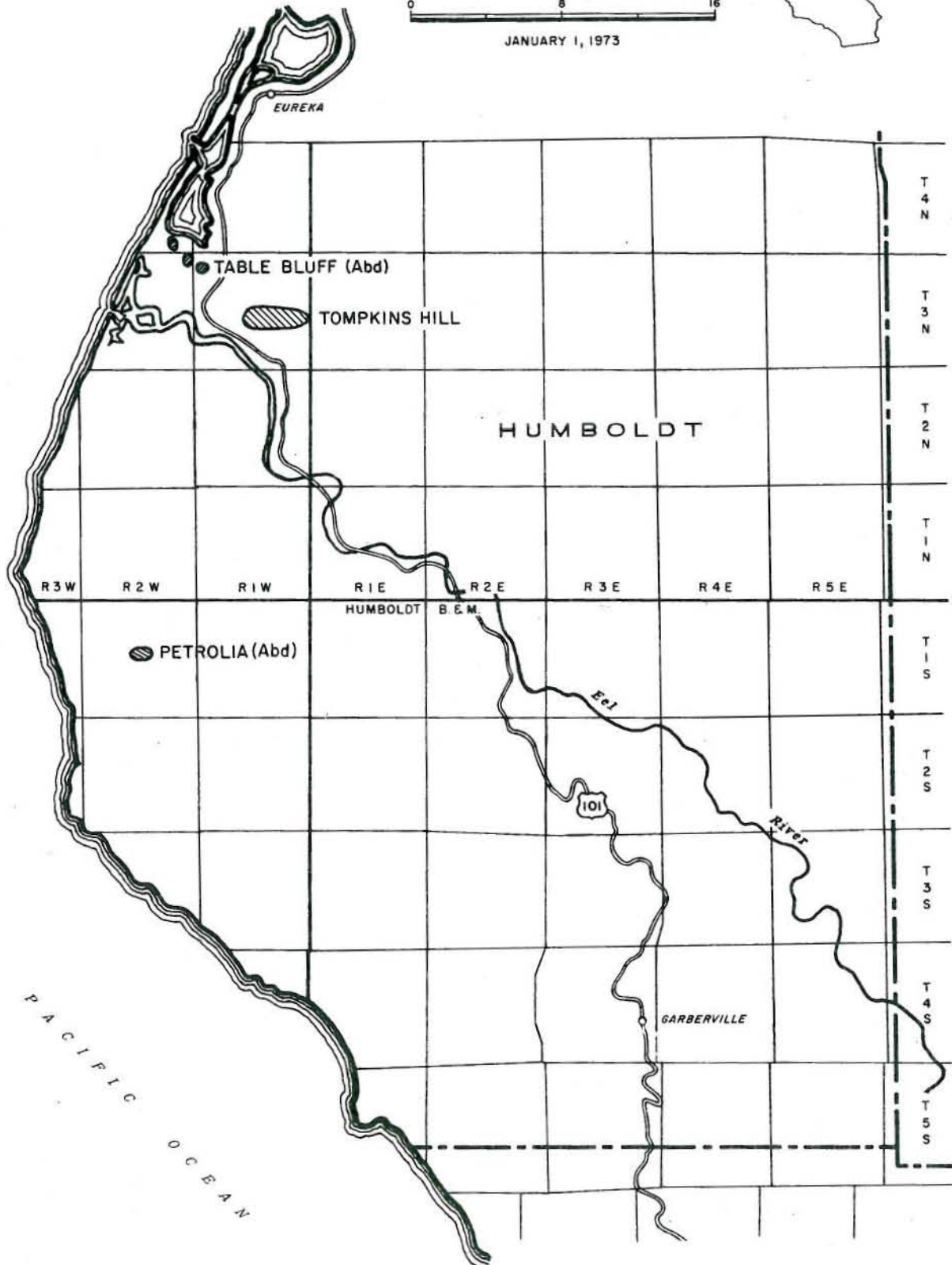


MAP A  
NORTH CALIFORNIA

SCALE IN MILES



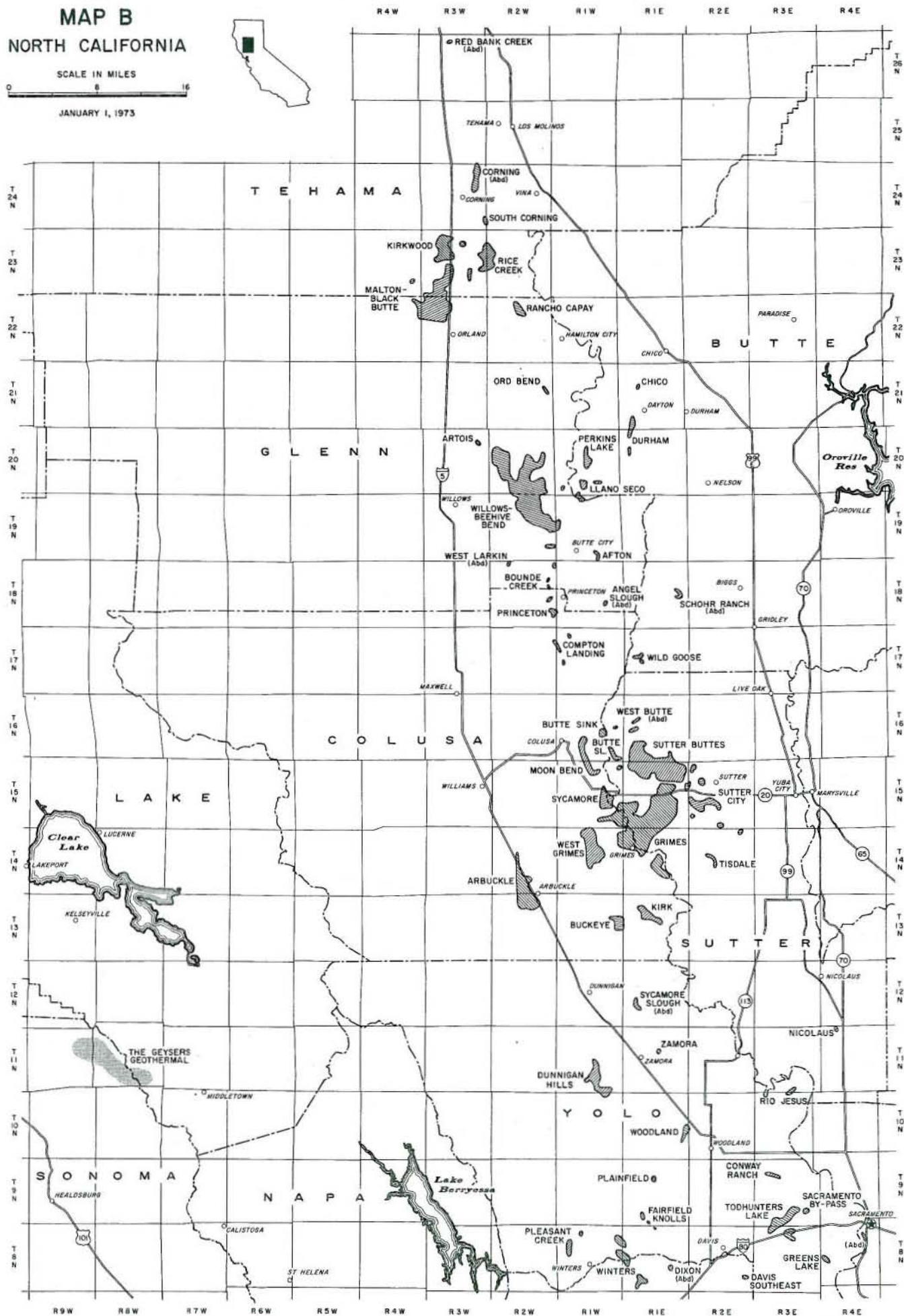
JANUARY 1, 1973



SCALE IN MILES

A horizontal scale bar with the text "SCALE IN MILES" centered above it. The bar has three major tick marks labeled "0", "8", and "16" from left to right. There are also four minor tick marks between each major tick mark, dividing each 8-mile segment into five 1.6-mile segments.

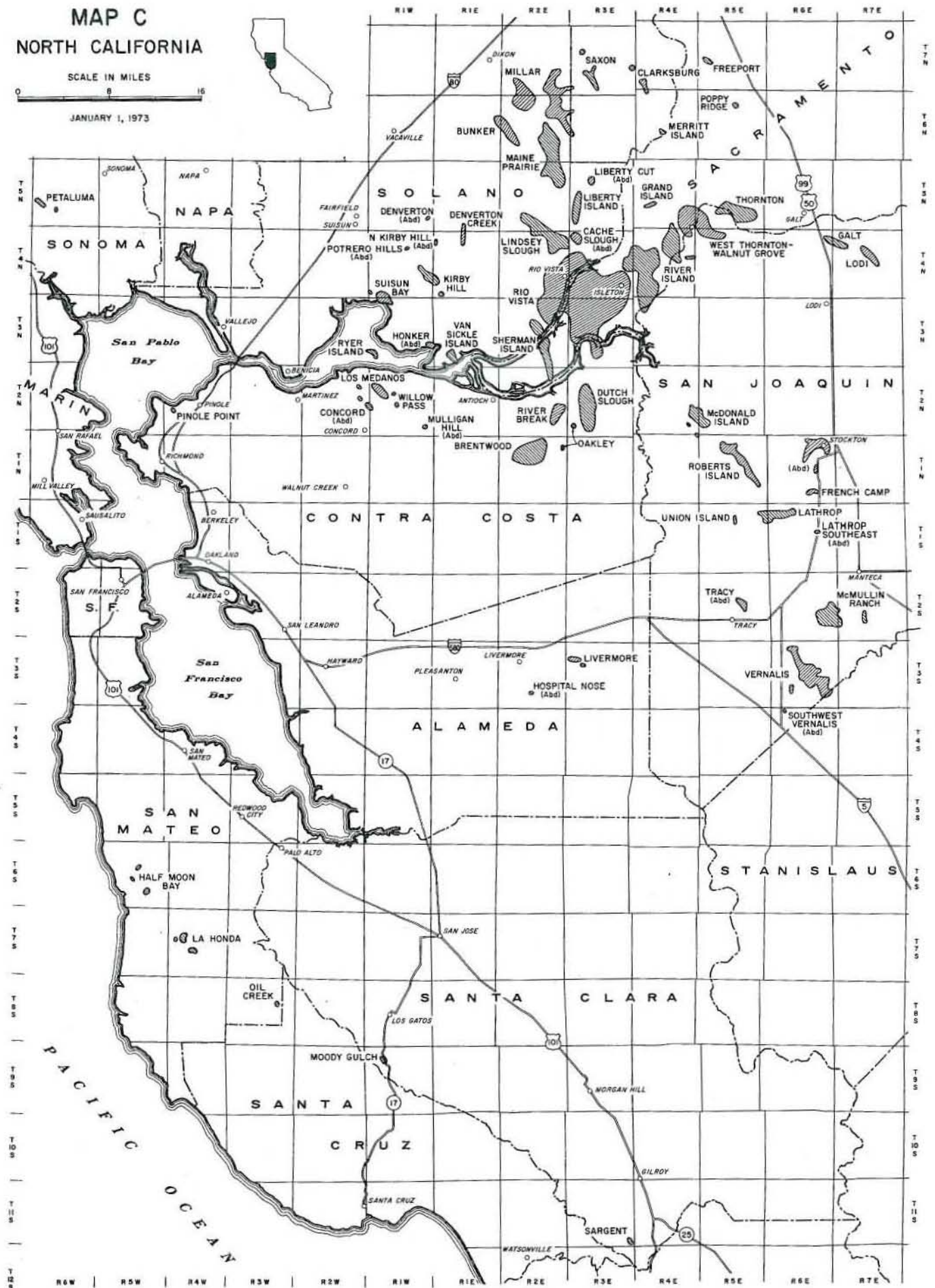
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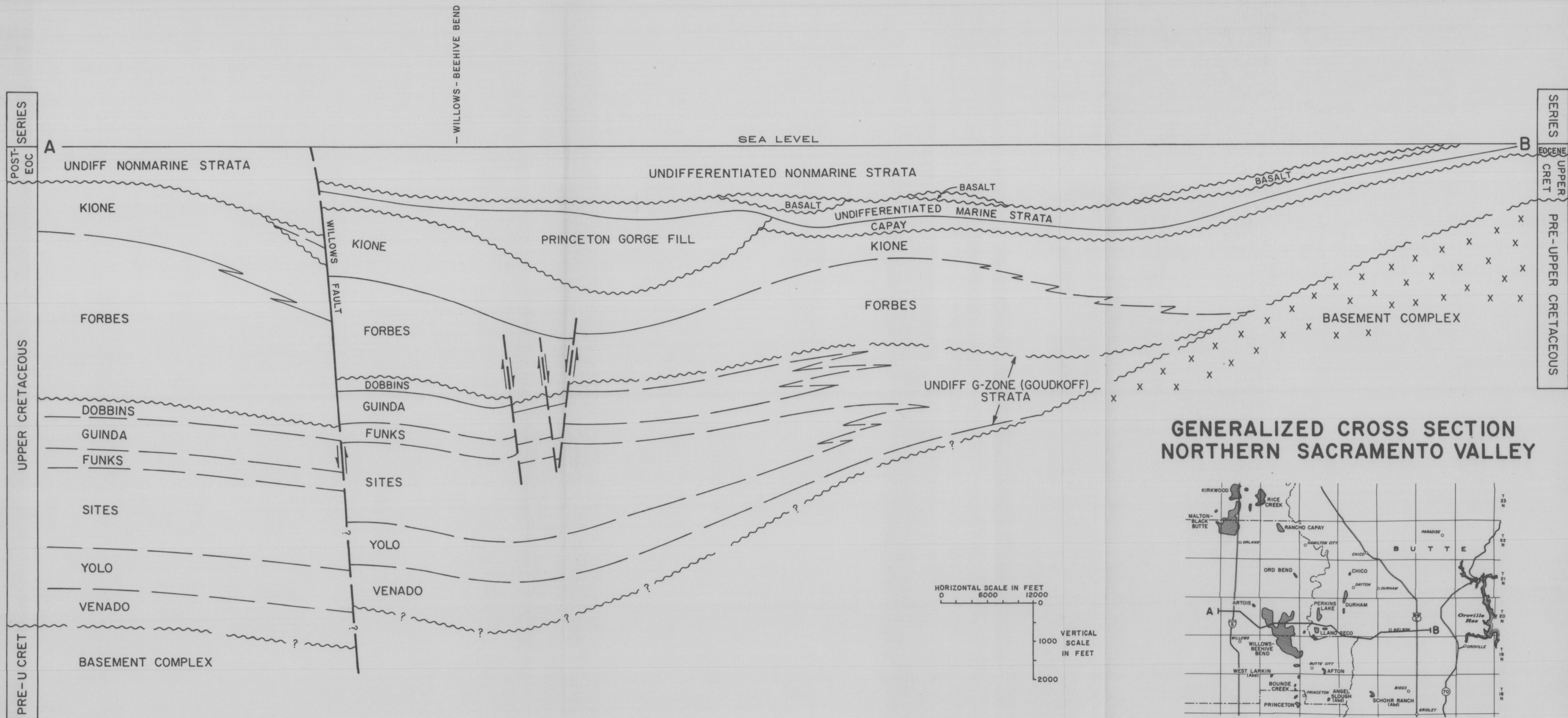


# MAP C NORTH CALIFORNIA

SCALE IN MILES  
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JANUARY 1, 1973



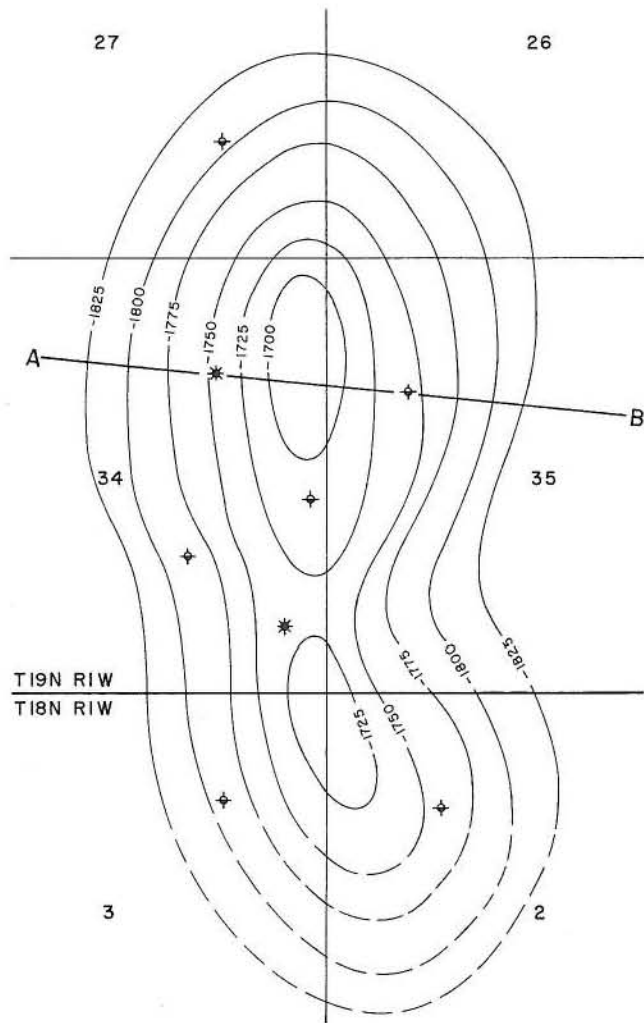
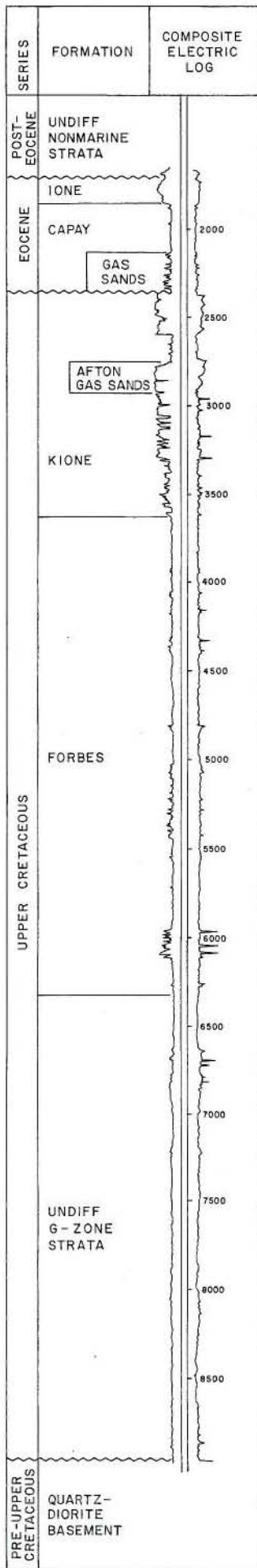




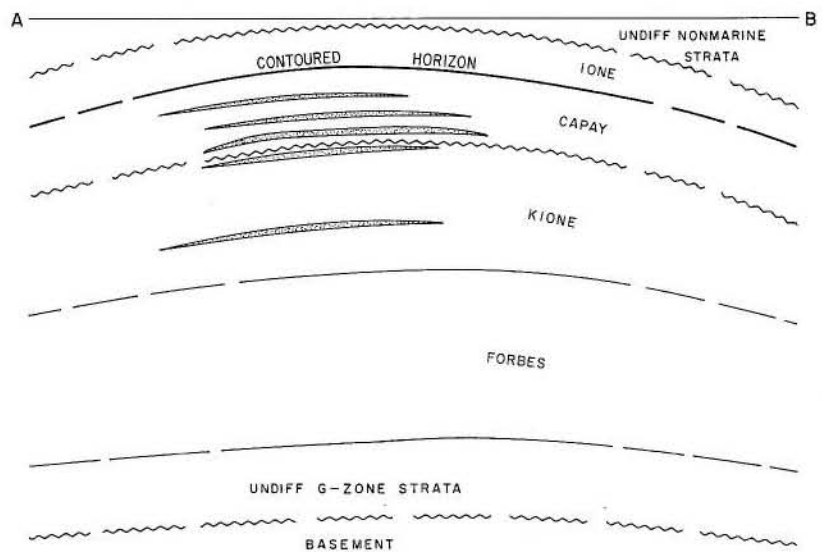


***NORTH CALIFORNIA  
MAPS AND DATA SHEETS***

# AFTON GAS FIELD



CONTOURS ON TOP OF CAPAY



# CALIFORNIA DIVISION OF OIL AND GAS

AFTON GAS FIELD (Field)  
Glenn County (County)

LOCATION: 4 miles northeast of Princeton

ELEVATION: 85

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Capay	Buttes Resources Co. "Afton Community 2" 1	Richfield Oil Corp. "Afton Community 2" 1	34 19N 1W	MD	485	640	11/64	Nov. 1949
Afton	Buttes Resources Co. "Afton Community 1" 1	Richfield Oil Corp. "Afton Community 1" 1	34 19N 1W	MD	5,700	550	5/8	Feb. 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "ROCO-Afton Community" 66-34	Richfield Oil Corp. "ROCO-Afton Community" 66-34	June 1962	34 19N 1W	MD	8,992	Basement (quartz diorite)	pre-Lt. Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Capay	1,830	30	Eocene	Capay	770	26,400	800	III B 2M
Afton	2,650	25	Late Cretaceous	Kione	770	26,400	1,225	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
2,118	0	140	2	4,770,583	821,134	1949	8	2	160

SPACING ACT: Applies

BASE OF FRESH WATER: 1,300

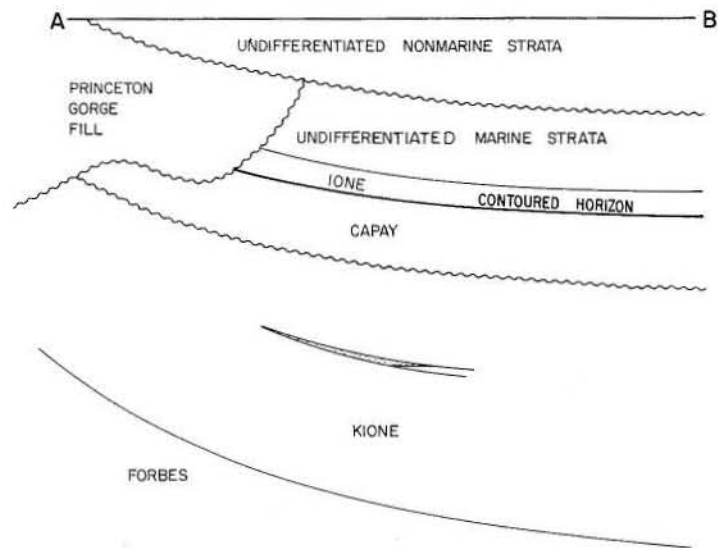
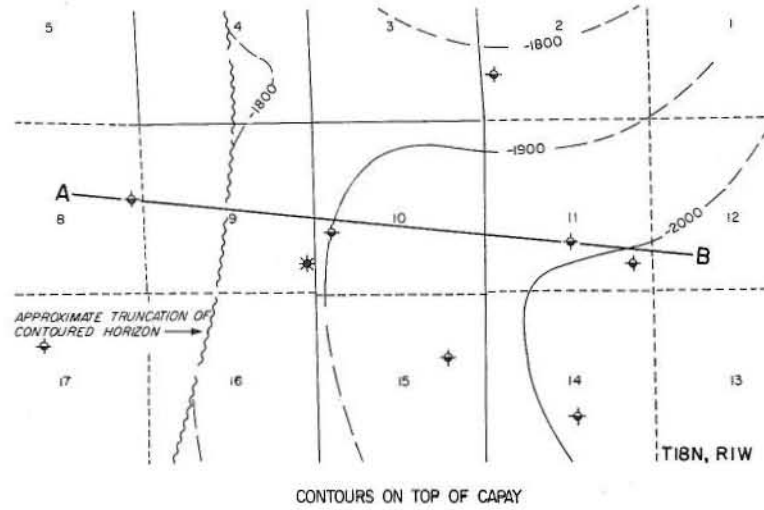
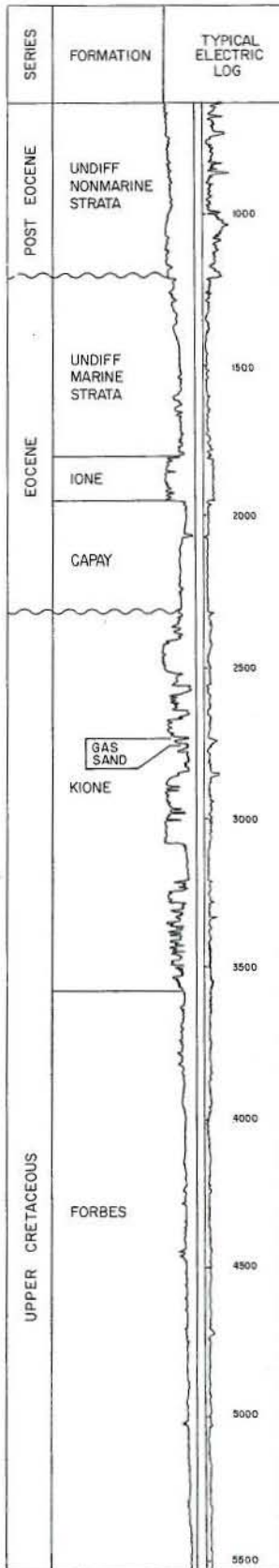
CURRENT CASING PROGRAM: 10 3/4" cem. 550; 4 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in December 1947.

REFERENCES: None

January 1978

# SOUTH AFTON GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

AFTON, SOUTH, GAS FIELD (field)  
Glenn County (County)

LOCATION: 3 miles northeast of Princeton

ELEVATION: 75

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Shell Oil Co. "Cecil" 1-9	Same	9 18N 1W	MD	9,600	1,100	N.A.	Nov. 1975

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Cecil" 1-9	Same	Oct. 1975	9 18N 1W	MD	3,740	Forbes	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,735	15	Late Cretaceous	Kione	778	N.A.	1,200	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	See Remarks	--	2	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,300

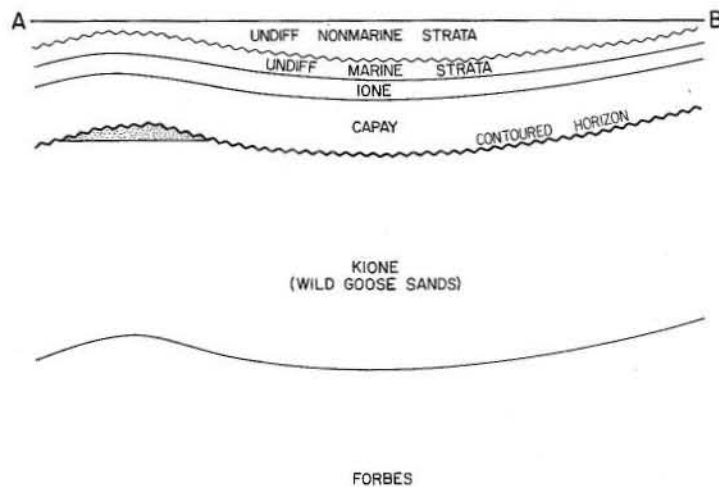
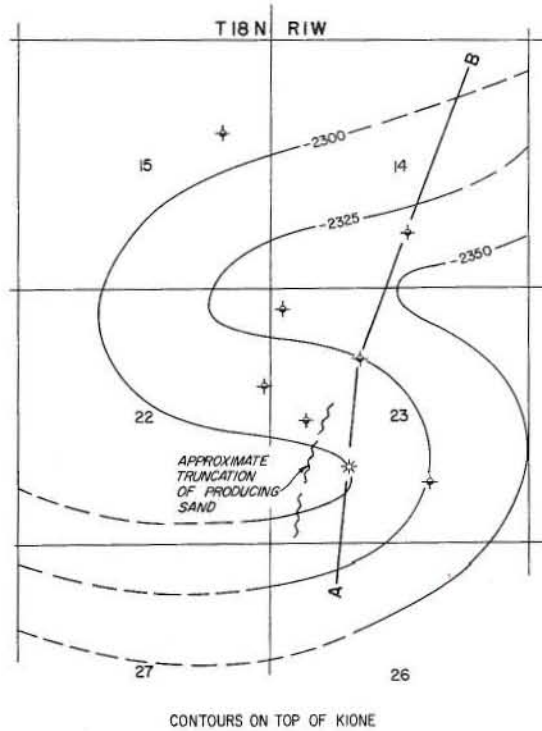
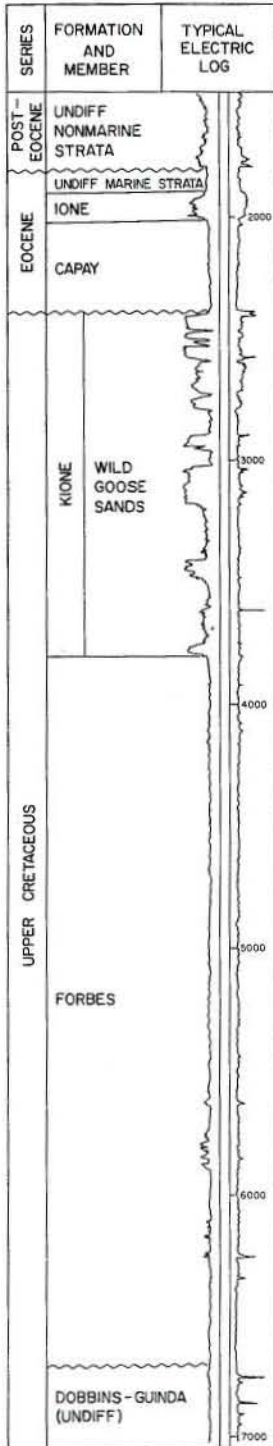
CURRENT CASING PROGRAM: 8 5/8" cem. 1,400; 5 1/2" cem. through zone.

REMARKS: Commercial gas deliveries have not yet begun.

REFERENCES: None

January 1978

# ANGEL SLOUGH GAS FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

ARBUCKLE GAS FIELD

Colusa County

LOCATION: 10 miles southeast of Williams

TYPE OF TRAP: Lenticular sands on anticline and syncline

ELEVATION: 180

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Sand stringers)	Gulf Oil Corp. "Arbuckle Unit C" 1	Western Gulf Oil Co. "Arbuckle Unit C" 1	3 13N 2W	MD	7,780	1,245	1/2	Feb 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Pet. Corp. "Arbuckle Section 4 Unit" 1	Same	Apr 1960	4 13N 2W	MD	12,007	Venado (?)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Sand stringers)	4,430 - 7,150	5 - 90 per stringer	Lt Cretaceous	Forbes	980 - 1,010	520 - 1,250	2,200 - 4,800	*IV or V

\* Depends on location and depth of well.

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,358,456	11,799	3,575	26	58,777,183	8,622,237	1961	57	38	5,255

SPACING ACT: Applies

BASE OF FRESH WATER: 1,250

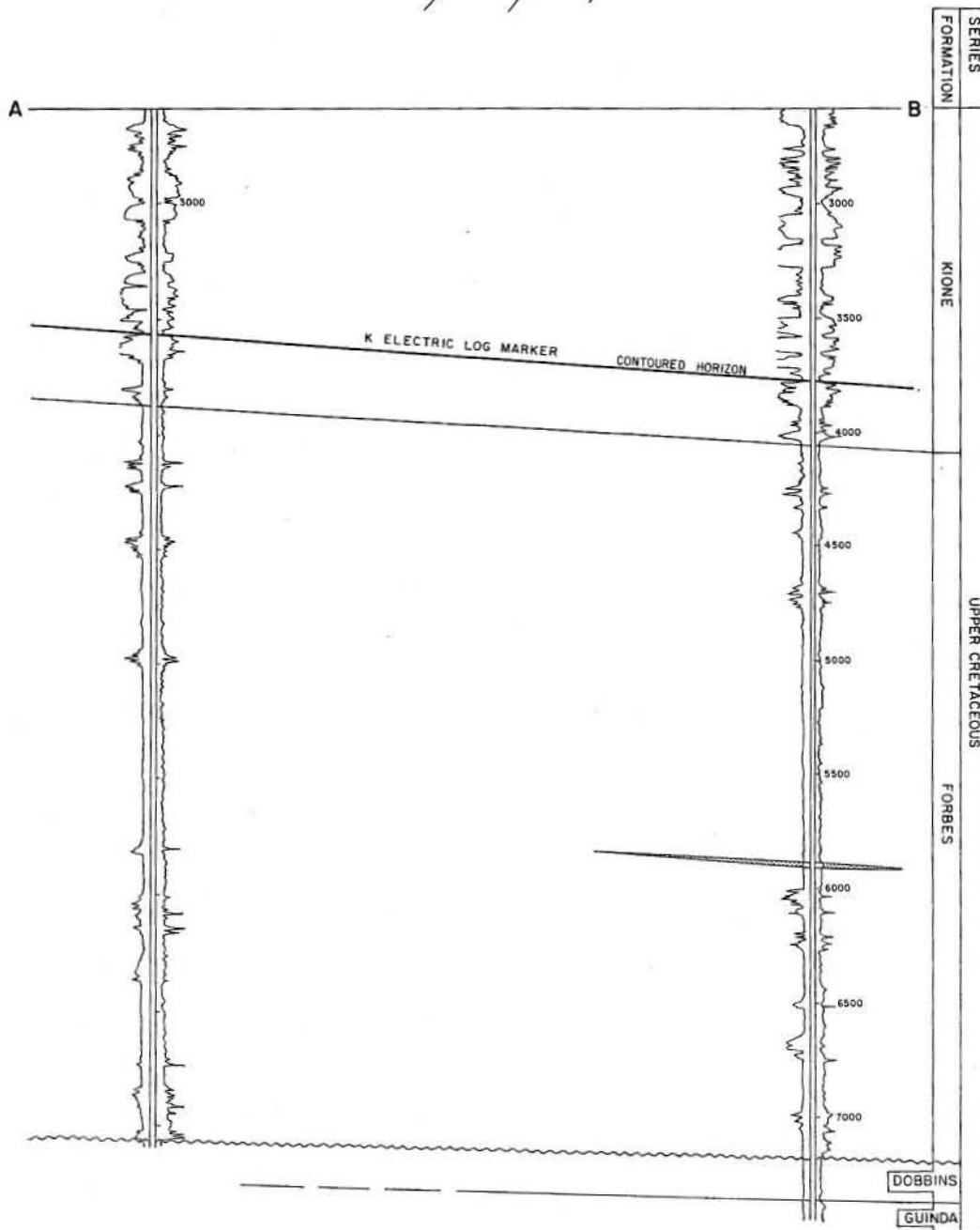
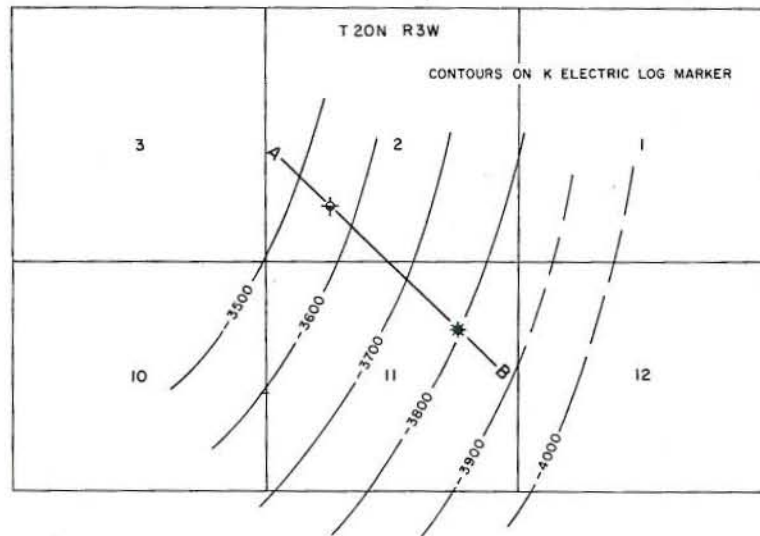
CURRENT CASING PROGRAM: 16" or 13 3/8" cem. 300; 9 5/8" or 8 5/8" cem. 2,800 and across base of fresh-water sands; 5 1/2" or 4 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Most of water is hauled by truck to Gulf Oil Corp. West Grimes Gas field disposal well. Waste water sumps are used for some low water volume producers.

REMARKS: Commercial gas deliveries began in March 1958. Most of the gas-sand stringers have been given local names by operators.

REFERENCES: Huey, W.F., Arbuckle Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 2 (1957).

# ARTOIS GAS FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

ARTOIS GAS FIELD

Glenn County

LOCATION: 2 miles southeast of Artois and 6 miles northeast of Willows

TYPE OF TRAP: Sand lens on a homocline

ELEVATION: 155

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(unnamed)	Sun Oil Co. "Sunray-McCulloch-Coast Expl. Von Barga" 1	Sunray Mid-Continent Oil Co. "Sunray-McCulloch-Coast Expl. Von Barga" 1	11 20N 3W	MD	1,275	1,500	3/8	Nov 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Sun Oil Co. "Sunray-McCulloch-Coast Expl. Von Barga" 1	Sunray Mid-Continent Oil Co. "Sunray-McCulloch-Coast Expl. Von Barga" 1	Oct 1959	11 20N 3W	MD	7,447	Guinda	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(unnamed)	5,885	20	Lt Cretaceous	Forbes	1,007	1,000	3,870	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
20,412	23	40	1	304,474	106,156	1967	2	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

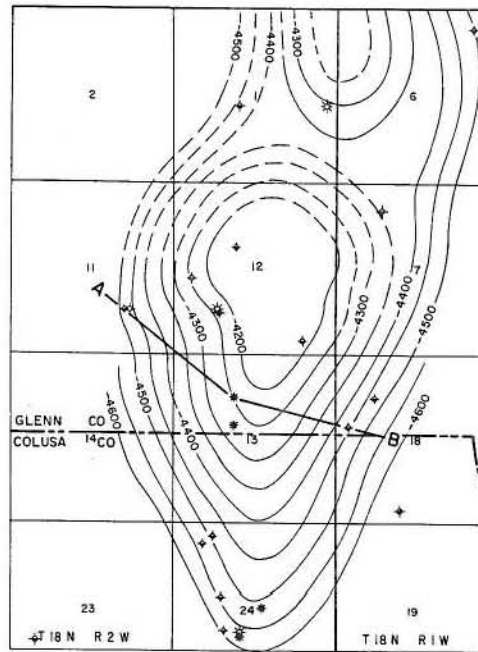
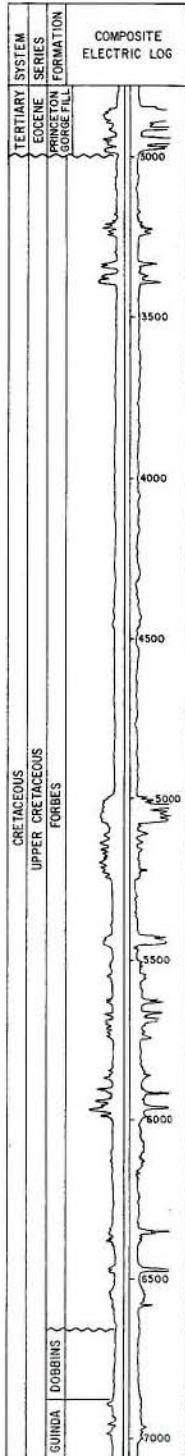
CURRENT CASING PROGRAM: 9 5/8" cem 1,500; 5 1/2" cem through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water is collected in tanks and hauled to Mobil Oil Co. disposal well in Willows-Beehive Bend field.

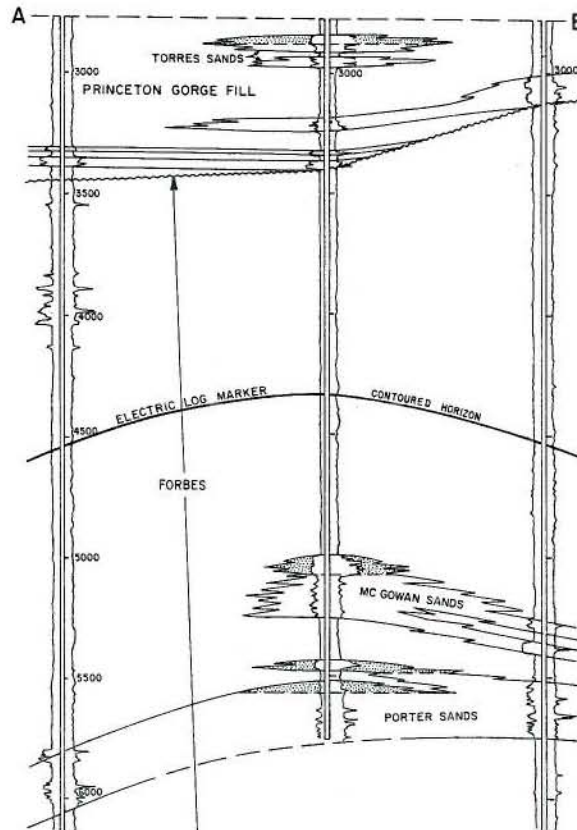
REMARKS: Commercial gas deliveries began in December 1966.

REFERENCES:

# BOUNDE CREEK GAS FIELD



CONTOURS ON ELECTRIC LOG MARKER IN FORBES FORMATION



# CALIFORNIA DIVISION OF OIL AND GAS

BOUNDE CREEK GAS FIELD  
Colusa and Glenn Counties

LOCATION: 2 miles west of Princeton

TYPE OF TRAP: Anticline; lenticular sands; sand pinchouts

ELEVATION: 75

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Torres	Exxon Corp. "Manuel S. Torres, et ux B-1" 2	Humble Oil & Rfg. Co. "Manuel S. Torres, et ux B-1" 2	12 18N 2W	MD	3,100	1,080	26/64	Oct 1958
McGowan	Same as above	Same as above	12 18N 2W	MD	1,750	825	31/64	Oct 1958
Porter	Exxon Corp. "Bounde Creek Opr. Unit 1" 1	Humble Oil & Rfg. Co. "Mamie H. Porter et al" 2	15 18N 2W	MD	3,980	2,125	19/64	Sep 1956
G	B.B.B. Oil Enterprises "McHatton" 1	Same as present	1 18N 2W	MD	1,848	2,100	3/16	Sep 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "Bounde Creek Opr. Unit 1" 1	Humble Oil & Rfg. Co. "Mamie H. Porter et al" 2	Jun 1956	13 18N 2W	MD	7,529	Guinda	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Torres	2,840	30	Eocene	Princeton Gorge fill	995	N.A.	1,300	IV
McGowan	4,990	80	Lt Cretaceous	Forbes	990	465	3,600	IV
Porter	5,450	265	Lt Cretaceous	Forbes	990	550	3,810 - 4,905	IV
G	6,965	35	Lt Cretaceous	Guinda	N.A.	N.A.	5,450	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
595,119	13,368	310	2	12,059,695	2,654,168	1959	15	7	440

SPACING ACT: Applies

BASE OF FRESH WATER: 1,800

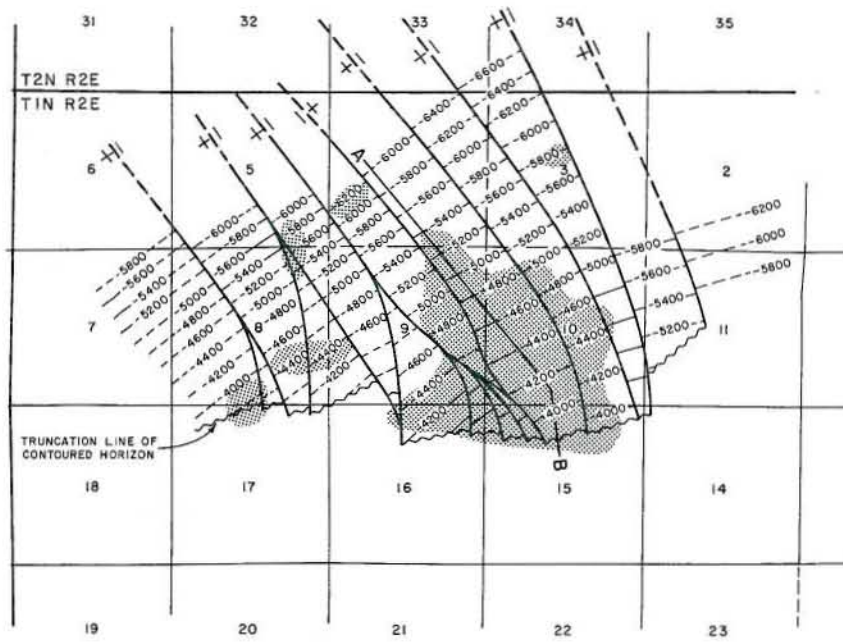
CURRENT CASING PROGRAM: 13 3/8" cem. 350; 8 5/8" cem. 3,500 and across base of fresh-water sands; 5 1/2" or 4 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: The water is hauled by truck to Mobil Oil Corp. disposal well in Willows-Beehive Bend Gas Field.

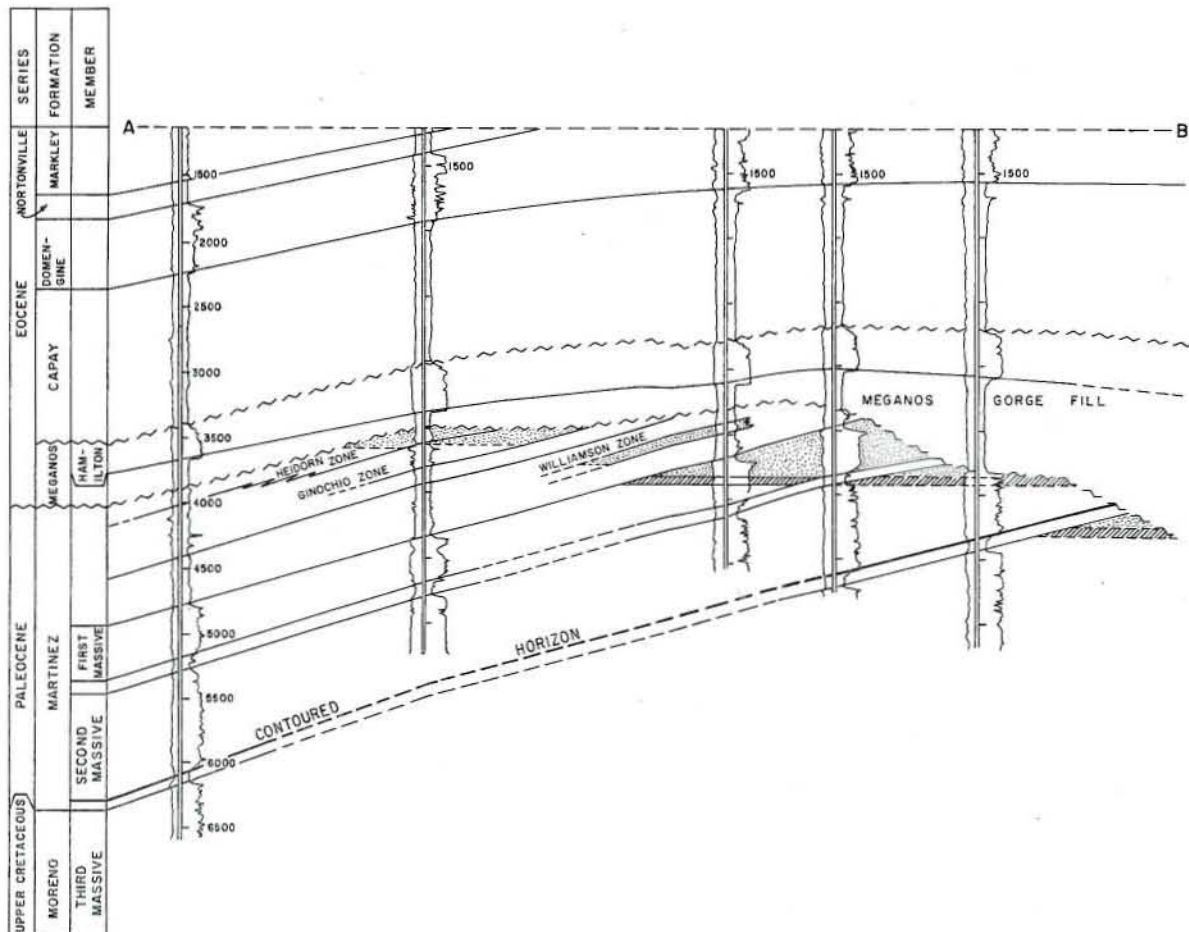
REMARKS: Commercial gas deliveries began in January 1958. Sudden increased pressure gradients are encountered in drilling below 5,000, requiring mud weight as high as 135 lb. per cu. ft.

REFERENCES: Bruce, D.D., Bounde Creek Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 1 (1959).

# BRENTWOOD OIL FIELD



CONTOURS ON BASE OF SECOND MASSIVE SAND





## CALIFORNIA DIVISION OF OIL AND GAS

BRENTWOOD OIL FIELD

Contra Costa County

LOCATION: 2 miles west of Brentwood

TYPE OF TRAP: Faulted homocline truncated by gorge; sand pinchout

ELEVATION: 110 - 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Prewett	Shell Oil Co. "Williamson" 31-4	Same as present	4 1N 2E	MD	142	80	Jul 1968
Heidorn (gas)	Shell Oil Co. "Heidorn" 4-4	Same as present	4 1N 2E	MD	0	1,160	Jul 1962
Ginocchio (gas)	Shell Oil Co. "Ginocchio" 2-9	Same as present	9 1N 2E	MD	0	3,900	Aug 1962
Williamson (gas)	Shell Oil Co. "Ginocchio-Shellenberger" 4-9	Shell Oil Co. "Ginocchio" 4-9	9 1N 2E	MD	0	540	Jul 1962
First Massive	Same as above	Same as above	9 1N 2E	MD	50	670	Jul 1962
Second Massive	Shell Oil Co. "Ridell" 4-10	Same as present	10 1N 2E	MD	260	4,960	Jan 1963
Third Massive	The Termo Co. "Ginocchio" 1	R.F. Oakes, F.W. Combs, et al "Ginocchio" 1	15 1N 2E	MD	0	2,610	Sep 1962

Remarks: \* Well was deepened in 1964 and recompleted as an oil well in the same zone; initial daily production: 240 bbl. oil, 350 Mcf gas.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Heidorn" 2-4	Same	Sep 1961	4 1N 2E	MD	11,472	E Zone (Goudkoff)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Prewett	3,770	80	Paleocene	Martinez	39	165	IV
Heidorn (gas)	3,520	34	Paleocene	Martinez	1,175	525	IV
Ginocchio (gas)	3,530	43	Paleocene	Martinez	1,175	785	IV
Williamson (gas)	3,570	20	Paleocene	Martinez	1,175	N.A.	IV
First Massive	3,600	250	Paleocene	Martinez	39	60	IV
Second Massive	3,770	95	Paleocene	Martinez	39	25	IV
Third Massive	4,025	180	Lt Cretaceous	Moreno	39	100	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
329,931	2,486,733	2,214,136	910	42	5,923,440	31,952,672	1,094,843	1964	80	59	910

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 7,080

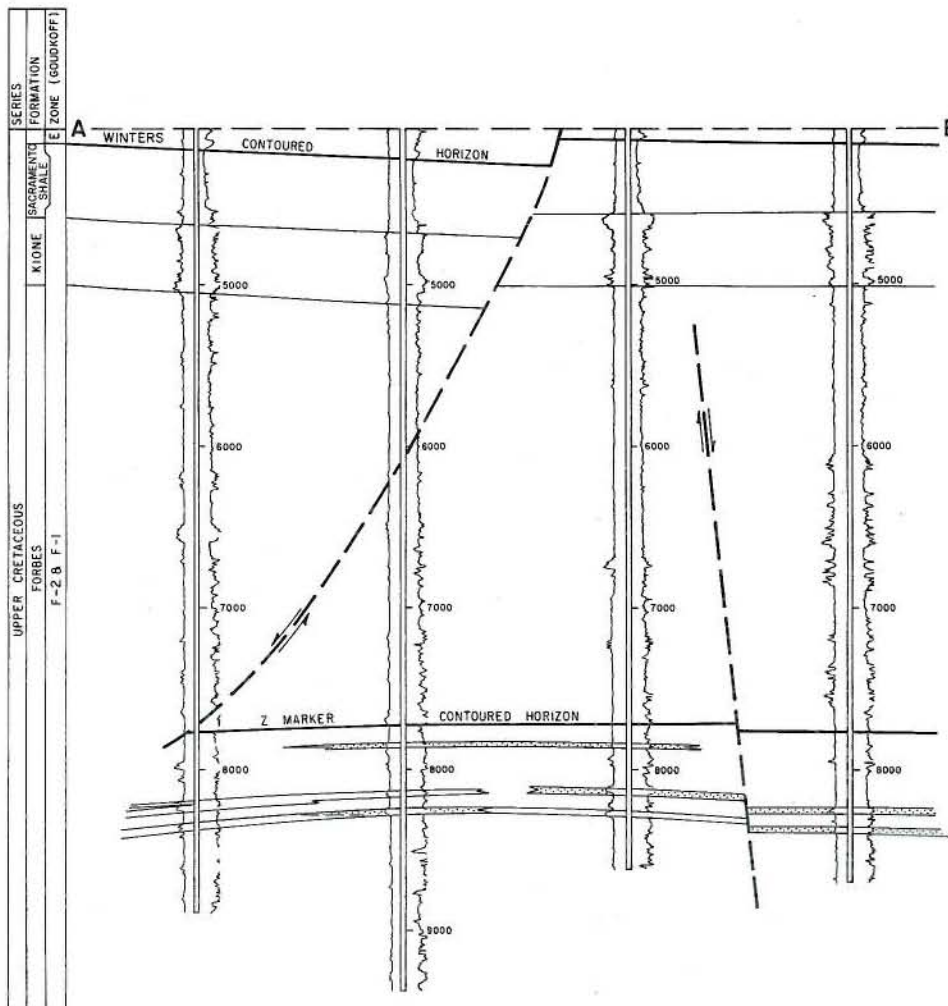
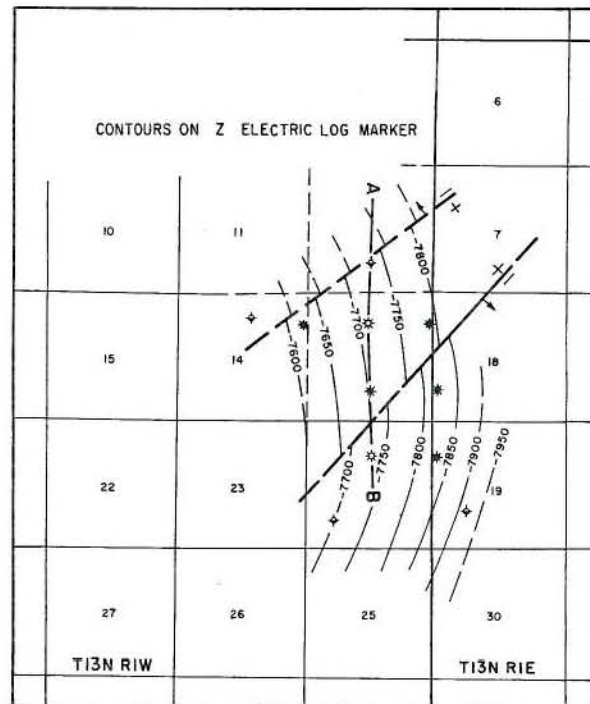
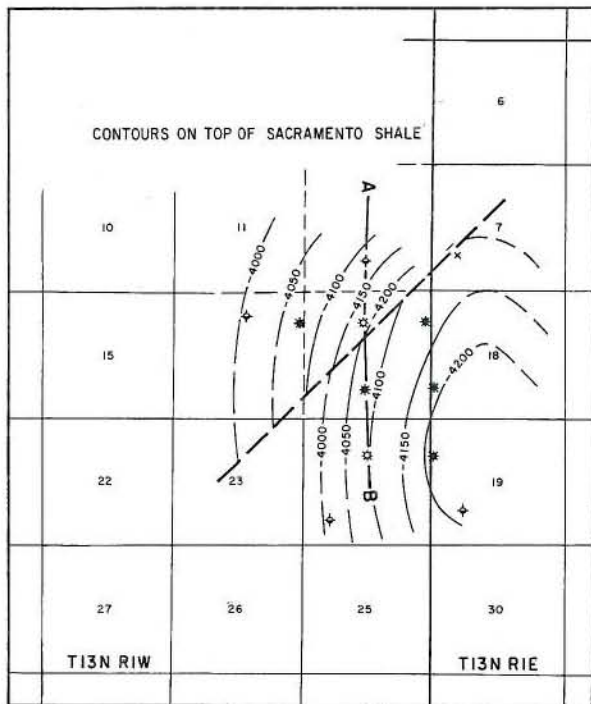
CURRENT CASING PROGRAM: 9 5/8" cem. 800; 5 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Waste water is treated then released into natural drainage channels and sumps.

REMARKS: Figure given for base of fresh water pertains to deepest fresh-water aquifer; some salt-water sands are found above 7,080. 1972 dry gas production 470,171 Mcf from 7 producing wells; cumulative dry gas production 8,016,374 Mcf. 11 dry gas wells were completed. 1972 condensate production 9,953 bbl.; cumulative condensate production 50,906 bbl.

REFERENCES: Sullivan, J.C., Brentwood Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 2 (1963).

# BUCKEYE GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

BUCKEYE GAS FIELD

Colusa County

LOCATION: 8 miles southeast of Arbuckle

TYPE OF TRAP: Lenticular sandstones

ELEVATION: 37

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(unnamed sand stringers)	Gulf Oil Corp. "Wilkins Unit A" 1	Western Gulf Oil Co. "F. J. Strain" 1	14 13N 1W	MD	2,450	1,800	9/16	Jan 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "Wilkins Unit C" 1	Gulf Oil Corp. of Calif. "Wilkins Unit C" 1	Jan 1961	24 13N 1W	MD	11,678	Funks (?)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(unnamed sand stringers)	7,850 - 8,510	10 - 30 per stringer	Lt Cretaceous	Forbes	1,015	900	4,120 - 5,950	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
322,800	2,008	800	5	8,841,352	1,553,025	1962	11	7	1,120

SPACING ACT: Applies

BASE OF FRESH WATER: 1,950

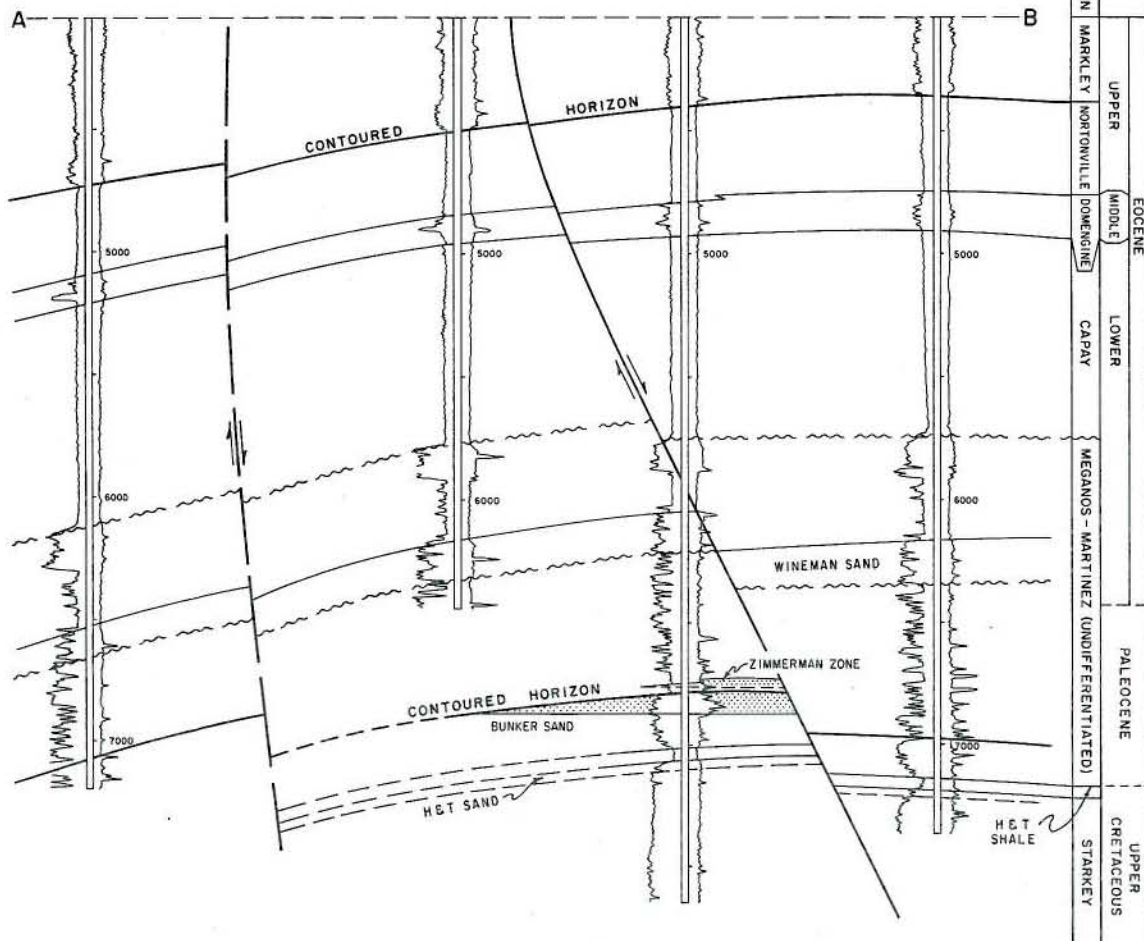
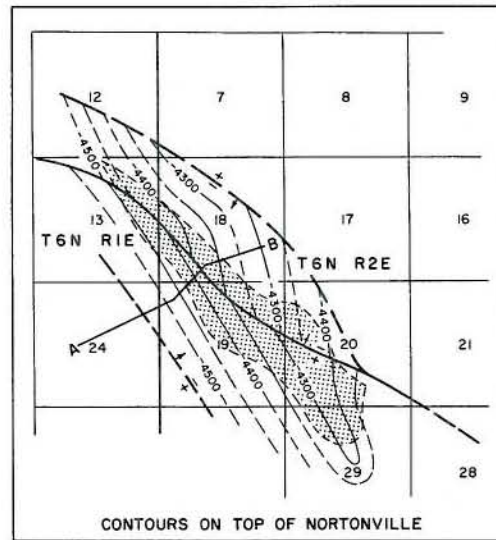
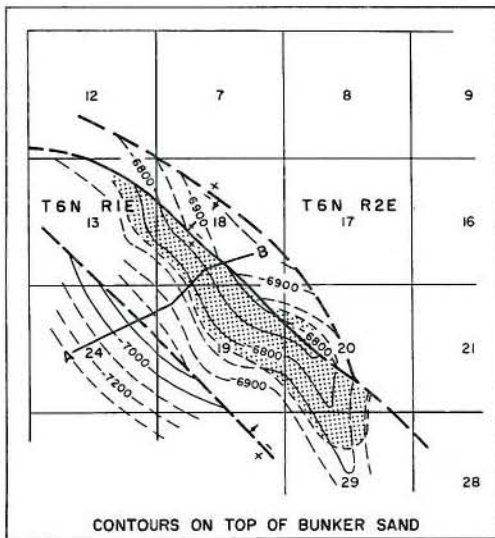
CURRENT CASING PROGRAM: 13 3/8" cem 350; 8 5/8" cem 3,500; 5 1/2" cem through zones.

METHOD OF WASTE DISPOSAL: Waste water is hauled to Gulf Oil Corp. waste water disposal well in West Grimes Gas field.

REMARKS: Commercial gas deliveries began in December 1961.

REFERENCES: Hunter, William J., Buckeye Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 1 (1962).

# BUNKER GAS FIELD



FORMATION	SERIES	
	UPPER	MIDDLE
MARKLEY	UPPER	MIDDLE
NORTONVILLE	UPPER	MIDDLE
DOMENGINE	UPPER	MIDDLE
CAPAY	UPPER	MIDDLE
MEGANOS - MARTINEZ (UNDIFFERENTIATED)	UPPER	MIDDLE
PALEOCENE	UPPER	MIDDLE
UPPER CRETACEOUS	UPPER	MIDDLE
STARKEY	UPPER	MIDDLE



# CALIFORNIA DIVISION OF OIL AND GAS

BUNKER GAS FIELD  
Solano County

LOCATION: 22 miles southwest of Sacramento

TYPE OF TRAP: Faulted anticline

ELEVATION: 25

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Zimmerman	Amerada Hess Corp., Unit Oper. "BGZU" 901	Amerada Petroleum Corp., Oper. "Zimmerman" 1	29 6N 2E	MD	3,890	2,250	9/32	Aug 1961
Bunker	Amerada Hess Corp., Unit Oper. "BGZU" 701	G.E. Kadane & Sons "Main Prairie Gas Unit A" 1	20 6N 2E	MD	3,425	2,250	1/4	Jun 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Amerada Hess Corp., Unit Oper. "BGZU" 702	G.E. Kadane & Sons "Maine Prairie Gas Unit A" 2	Jan 1962	19 6N 2E	MD	10,098	Winters	Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Zimmerman	6,780	15	Paleocene	Martinez	1,075	4	2,930	IV
Bunker	6,845	25	Paleocene	Martinez	1,075	2	2,975	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
3,073,729	6,704	810	8	53,141,694	10,457,830	1963	22	10	850

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500 - 3,100

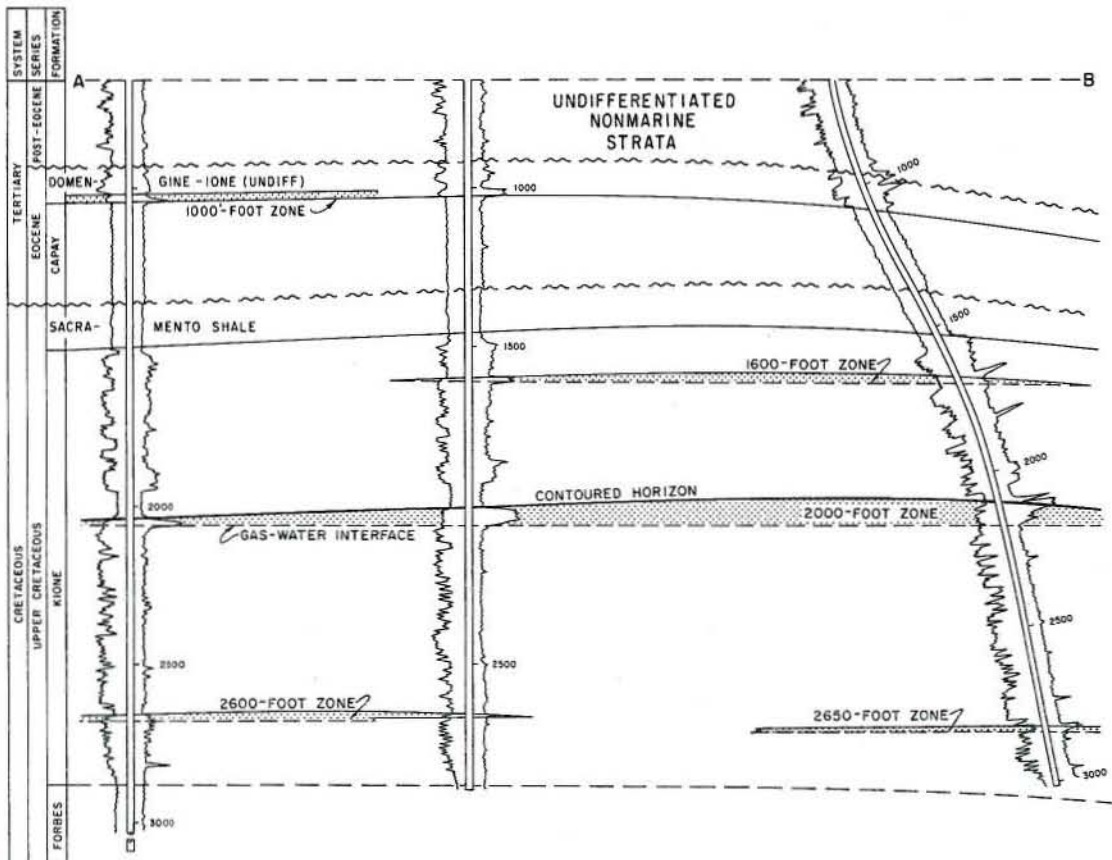
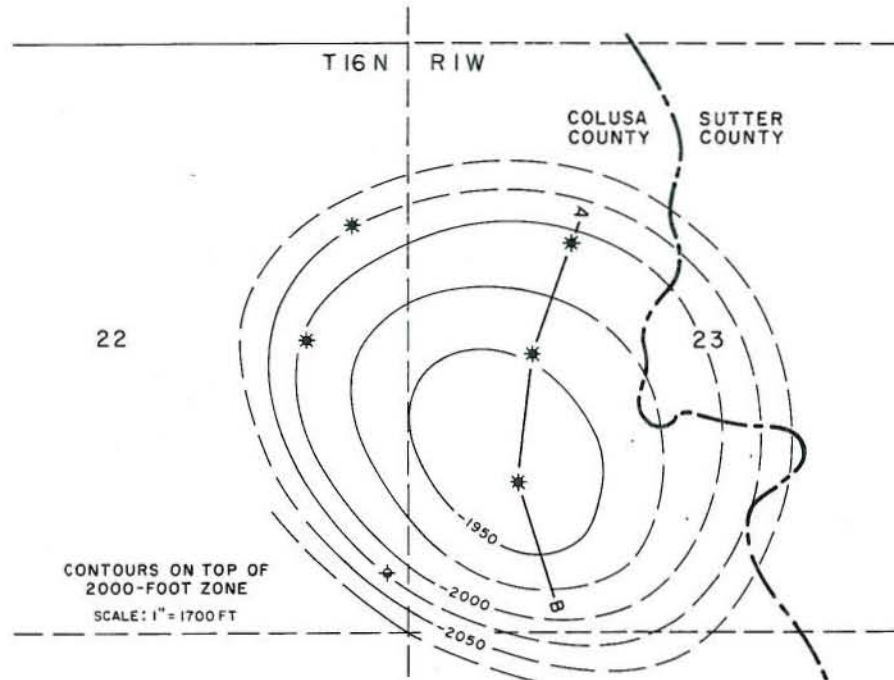
CURRENT CASING PROGRAM: 9 5/8" or 7" cem. 600; 4 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Disposal into sumps at well sites.

REMARKS: Commercial gas deliveries began in October 1961. 1972 condensate production 11,256 bbl.; cumulative condensate production 233,716 bbl.

REFERENCES: Hunter, W.J., Bunker Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 1 (1961).

# BUTTE SINK GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

BUTTE SINK GAS FIELD

Colusa and Sutter Counties

LOCATION: 3 miles east of Colusa

TYPE OF TRAP: Dome; lenticular sands

ELEVATION: 60

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
1,000-foot Zone	General Crude Oil Co., Oper. "Capital Co. Delta Farms" 3	G.E. Kadane & Sons "Capital Co. Delta Farms" 3	23 16N 1W	MD	387	475	3/16	Aug 1962
1,600-foot Zone	General Crude Oil Co., Oper. "Capital Co. Delta Farms" 2	G.E. Kadane & Sons "Capital Co. Delta Farms" 2	23 16N 1W	MD	226	691	1/8	Aug 1962
1,950-foot Zone	General Crude Oil Co., Oper. "Capital Co. Delta Farms" 4	G.E. Kadane & Sons "Capital Co. Delta Farms" 4	22 16N 1W	MD	1,885	790	5/16	Aug 1963
2,000-foot Zone	General Crude Oil Co., Oper. "Capital Co. Delta Farms" 1	G.E. Kadane & Sons "Capital Co. Delta Farms" 1	23 16N 1W	MD	1,170	760	1/4	Jul 1962
2,600-foot Zone	Same as above	Same as above	23 16N 1W	MD	1,078	700	1/4	Jul 1962
2,650-foot Zone	General Crude Oil Co., Oper. "Standard Belle Fletcher" 1	Occidental Petroleum Corp. "Standard-Belle Fletcher et al" 1	23 16N 1W	MD	1,580	1,030	1/4	Sep 1962

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
General Crude Oil Co., Oper. "Capital Co. Delta Farms" 1	G.E. Kadane & Sons "Capital Co. Delta Farms" 1	Jun 1962	23 16N 1W	MD	6,998	Forbes (?)	late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
1,000-foot Zone	1,015	10	Eocene	Domengine - Ione (Undiff)	907	composite sample	460	IV
1,600-foot Zone	1,600	20	Lt Cretaceous	Kione	926	410 g/g	735	IV
1,950-foot Zone	1,950	20	Lt Cretaceous	Kione	1,000		930	IV
2,000-foot Zone	2,000	80	Lt Cretaceous	Kione	829		935	IV
2,600-foot Zone	2,600	20	Lt Cretaceous	Kione	824		N.A.	IV
2,650-foot Zone	2,650	15	Lt Cretaceous	Kione	807		1,220	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
524,081	1,771	210	5	4,302,994	604,197	1967	6	5	210

SPACING ACT: Applies

BASE OF FRESH WATER: 400

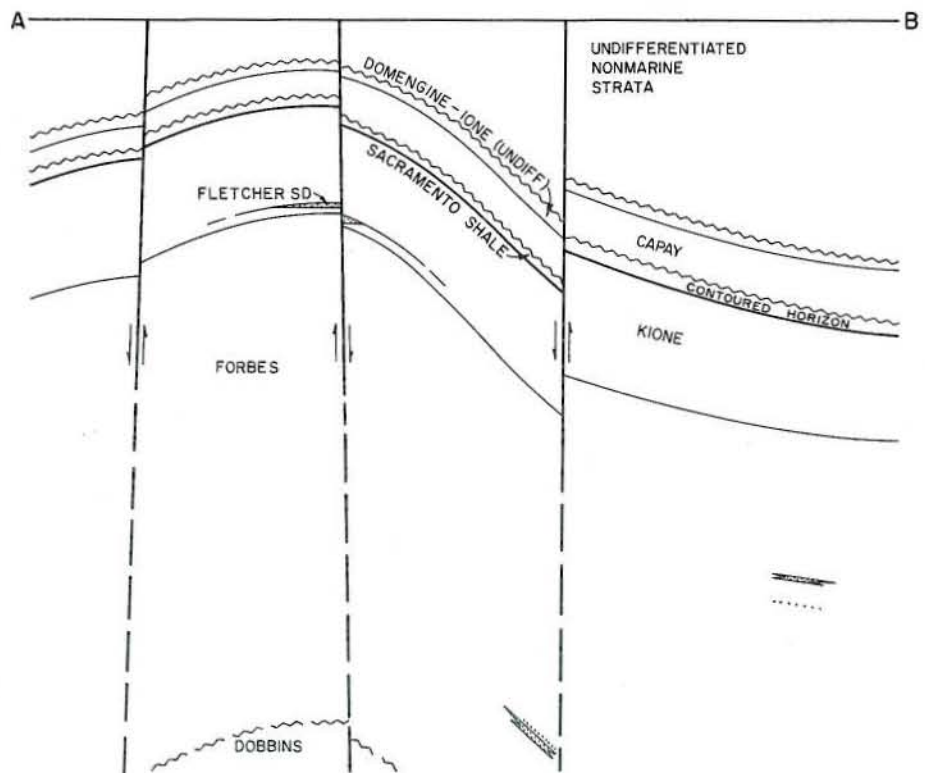
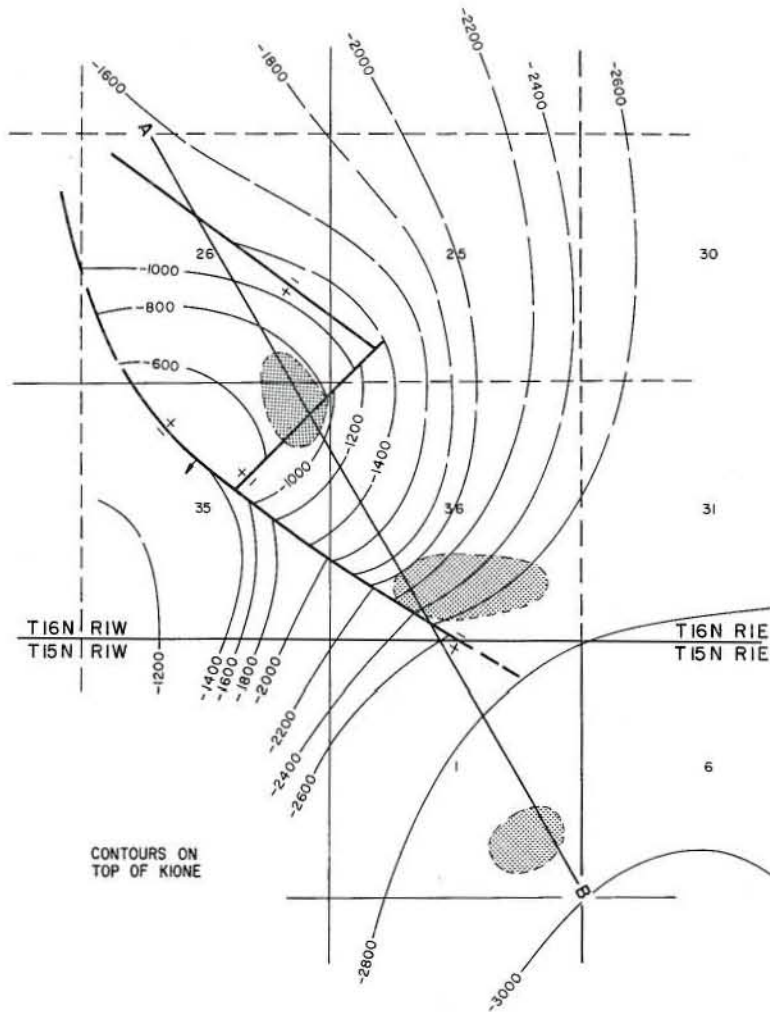
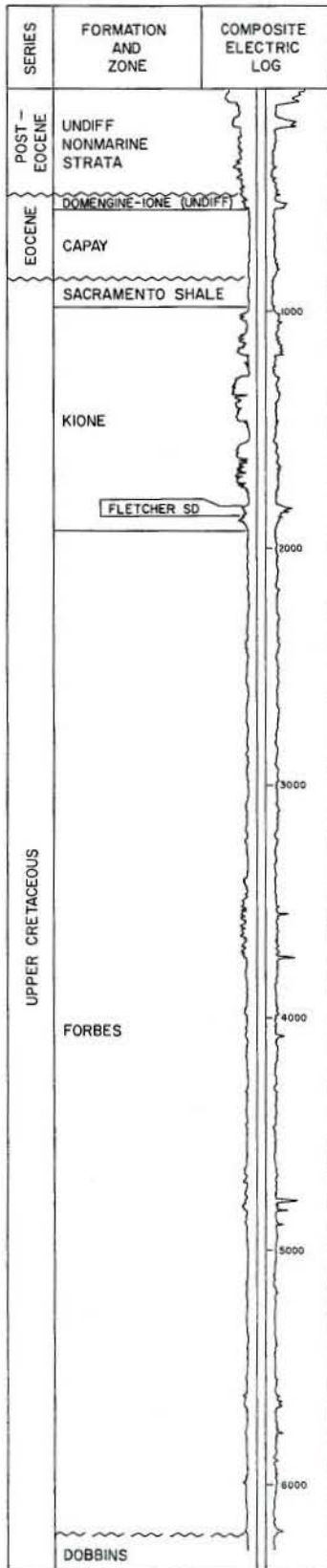
CURRENT CASING PROGRAM: 7" cem. 600; 4 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Waste water is hauled to disposal site.

REMARKS: Commercial gas deliveries began in October 1964.

REFERENCES: Hunter, W.J., Butte Sink Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 2 (1963).

# BUTTE SLOUGH GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

BUTTE SLOUGH GAS FIELD  
Colusa and Sutter Counties

LOCATION: 4 miles east of Colusa

TYPE OF TRAP: Faulted nose; lenticular sands

ELEVATION: 66

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Fletcher (Unnamed sand stringers)	General Crude Oil Co., Oper. "Belle Fletcher Hirst" 1	Humble Oil & Refining Co. "Belle Fletcher" 3	35 16N 1W	MD	478	635	3/16	Oct 1955
	Atlantic Oil Co. "Tarke" 1	Atlantic Oil Co. "Standard-Occidental-Tarke" 1	36 16N 1W	MD	1,700	800	5/16	Sep 1962

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Oil Co. "Scott-Straub" 1	Same	Aug 1963	1 15N 1W	MD	8,042	G zone	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Fletcher (Unnamed sand stringers)	1,815	35	Lt Cretaceous	Kione	970	N.A.	835	IV
	5,700 - 7,270	6 - 80 per stringer	Lt Cretaceous	Forbes	930 - 990	135 - 1,300	3,250 - 5,000	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
332,413	147	400	4	2,920,862	1,553,025	1962	13	5	560

SPACING ACT: Applies

BASE OF FRESH WATER: 200

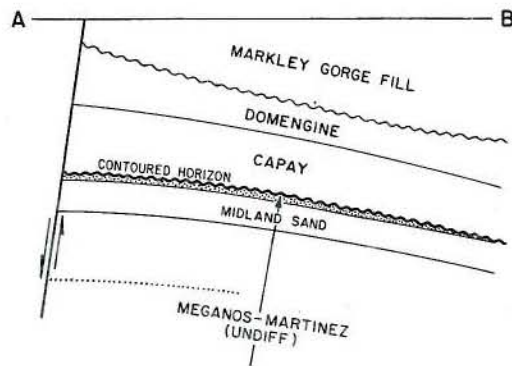
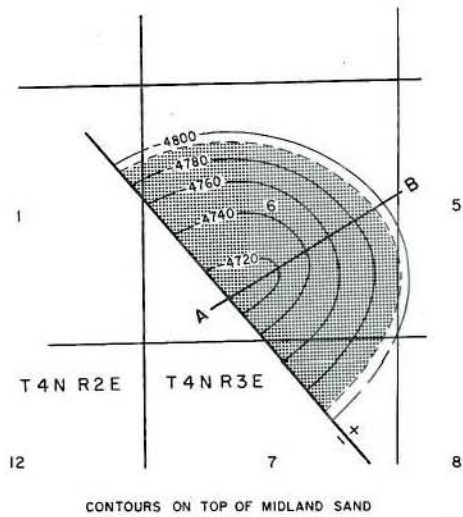
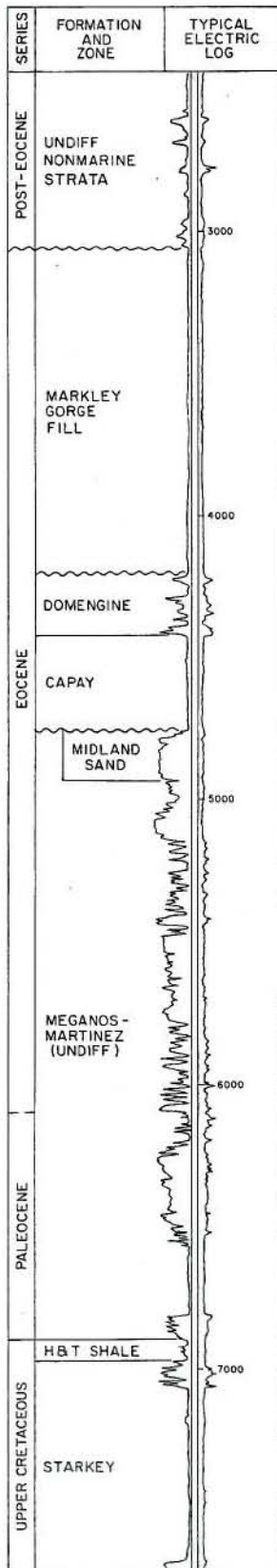
CURRENT CASING PROGRAM: Fletcher zone: 7" cem. 500; 4 1/2" cem. 2,000. Forbes zone: 13 3/8" cem. 350; 8 5/8" cem. 3,500; 4 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water is hauled to Atlantic Oil Company's waste-water injection well in Grimes Gas field.

REMARKS: Commercial gas deliveries began in November 1964.

REFERENCES:

# CACHE SLOUGH GAS FIELD (Abandoned)



# CALIFORNIA DIVISION OF OIL AND GAS

CACHE SLOUGH GAS FIELD (Abandoned)

Solano County

LOCATION: 3 miles north of Rio Vista

TYPE OF TRAP: Faulted nose

ELEVATION: 7

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Midland	Standard Oil Co. of Calif. "Calif. Packing Corp." 2	Same as present	6 4N 3E	MD	14,867	1,697	5/8	Mar 1945
(unnamed)	Standard Oil Co. of Calif. "Peter Cook" 12	Same as present	6 4N 3E	MD	3,850	1,811	5/16	Jul 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Peter Cook" 12	Same	Jun 1960	6 4N 3E	MD	7,730	Starkey	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Midland	4,730	35	Eocene	Meganos	1,000	1,050	2,120	IV
(unnamed)	5,335	5	Eocene - Paleocene	Meganos - Martinez	937	890	2,235	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	11,553,705	2,558,328	1948	9	7	300

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000 - 2,300

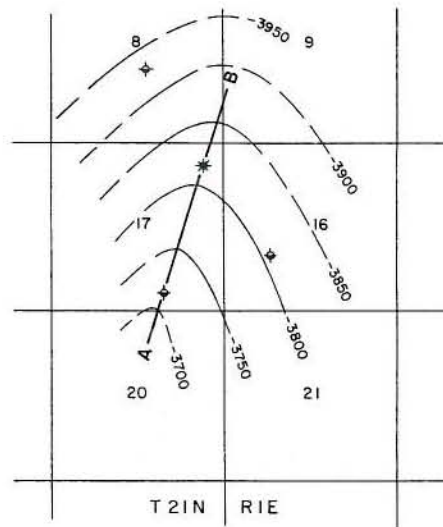
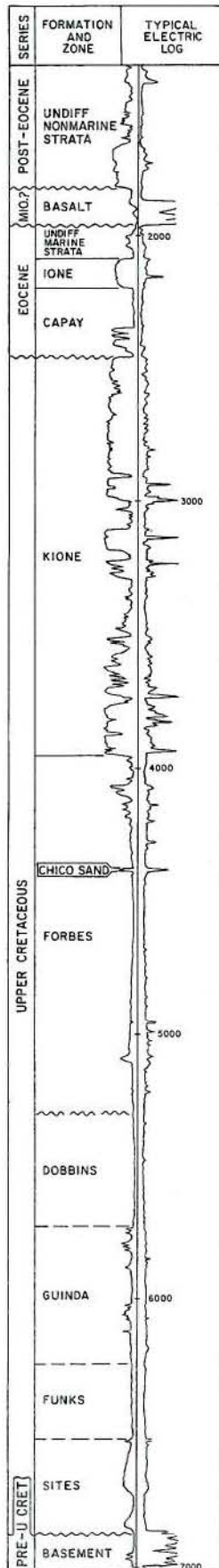
CURRENT CASING PROGRAM: 9 5/8" cem 600; 5 1/2" cem through zones, and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

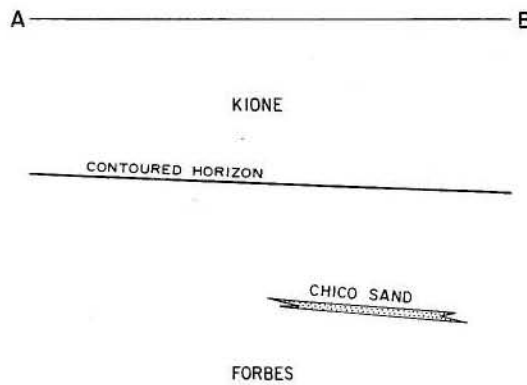
REMARKS: Commercial gas deliveries began in December 1947 and ceased in October 1962.

REFERENCES:

# CHICO GAS FIELD



CONTOURS ON TOP OF FORBES





## CALIFORNIA DIVISION OF OIL AND GAS

CHICO GAS FIELD

Butte County

LOCATION: 4 miles southwest of Chico

TYPE OF TRAP: Lenticular sand

ELEVATION: 142

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Chico	Buttes Gas & Oil Co. "Estes" 1	Richfield Oil Corp. "Chico" 1	17 21N 1E	MD	2,070	1,470	17/64	Jan 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Aug 1943	17 21N 1E	MD	7,005	Basement	pre-Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Chico	4,365	20	Lt Cretaceous	Forbes	865	N.A.	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
15,259	0	160	1	1,534,067	221,381	1947	3	1	160

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400

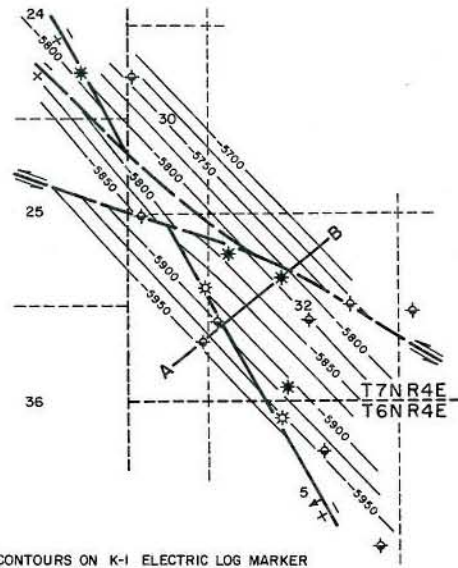
CURRENT CASING PROGRAM: 11 3/4" cem. 500; 7" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

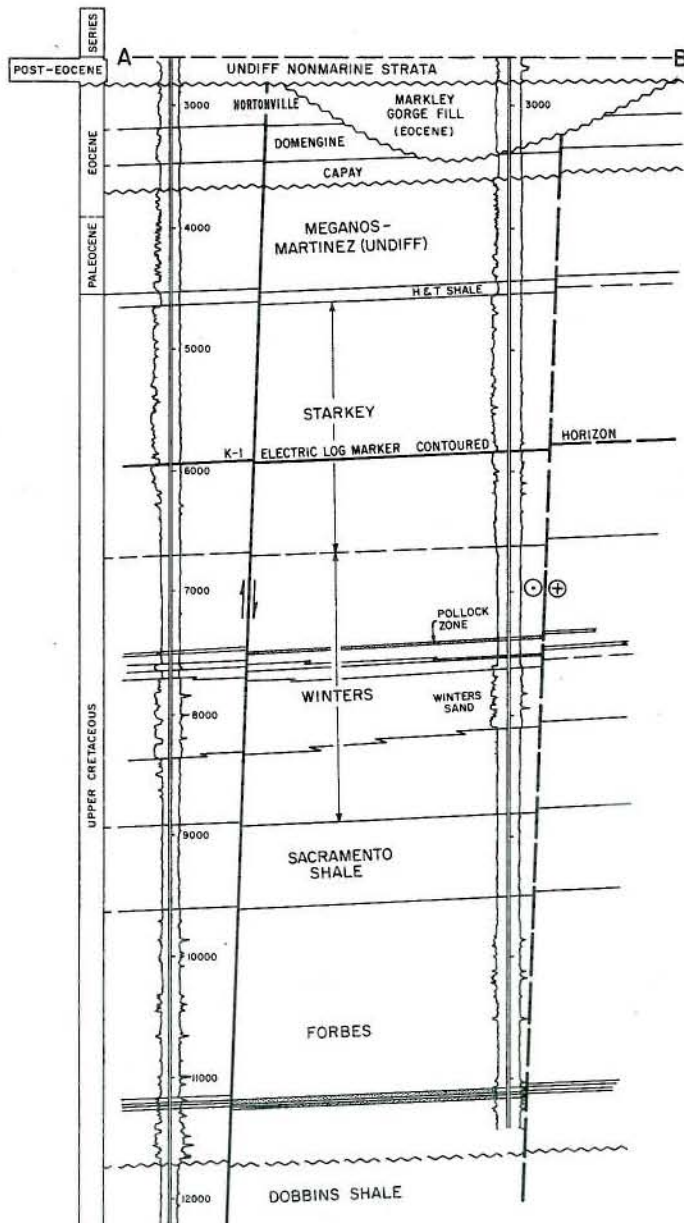
REMARKS:

REFERENCES:

# CLARKSBURG GAS FIELD



CONTOURS ON K-1 ELECTRIC LOG MARKER



## CALIFORNIA DIVISION OF OIL AND GAS

CLARKSBURG GAS FIELD

Yolo County

(Field)  
(County)

LOCATION: 12 miles southwest of Sacramento

ELEVATION: 1

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Pollock Forbes	Occidental Pet. Corp. "Pollock Unit" 1	Same	5 6N 4E	MD	14,300	1,110	3/4	July 1963
	Occidental Pet. Corp. "Sherman Unit" 5	Same	32 7N 4E	MD	1,122	2,110	10/64	June 1966

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "Union-Pow Standard Community 1" 1	Same	Jan. 1962	31 7N 4E	MD	12,235	Dobbins	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Pollock	7,450	20	Late Cretaceous	Winters	930	12,200	3,350	III B 3M
Forbes	11,100	50	Late Cretaceous	Forbes	894	11,500	5,110	III B 5M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
41,863	46	150	2	2,488,330	686,595	1966	14	6	480

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

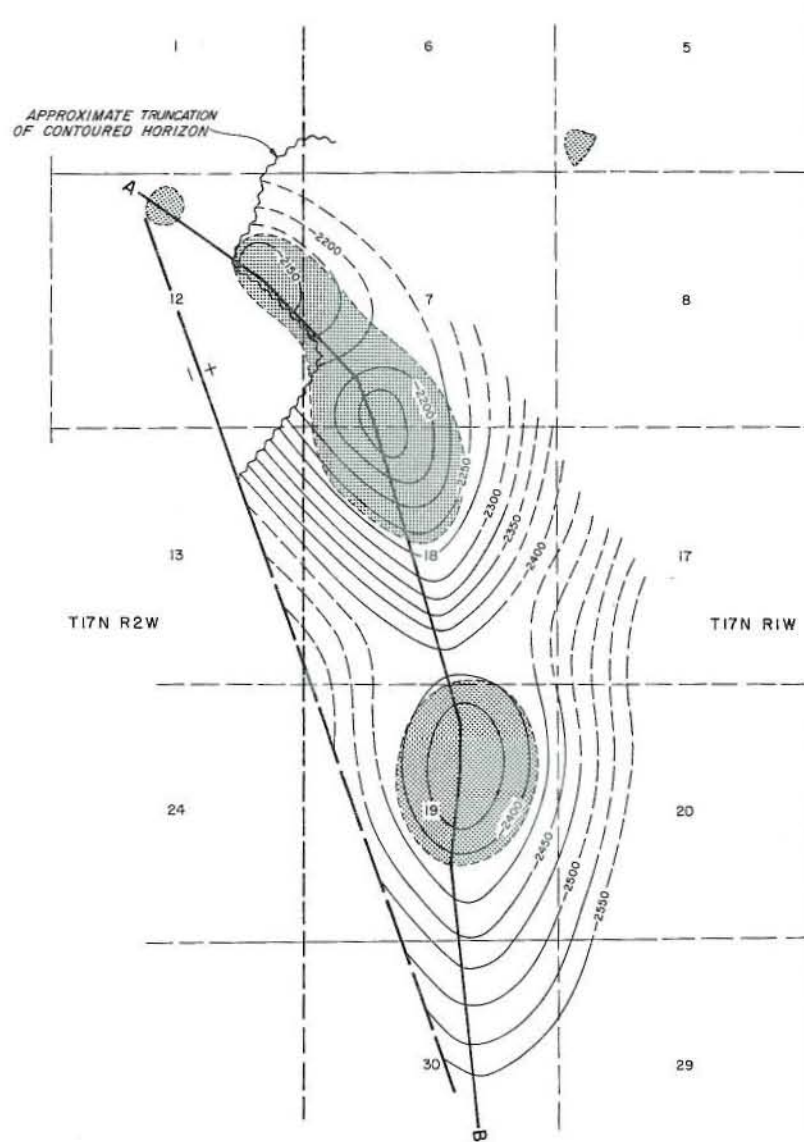
CURRENT CASING PROGRAM: Winters Formation: 9 5/8" cem. 900; 5 1/2" cem. through zone and across base of freshwater sands.  
Forbes Formation: 9 5/8" cem. 1,500; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in January 1966.

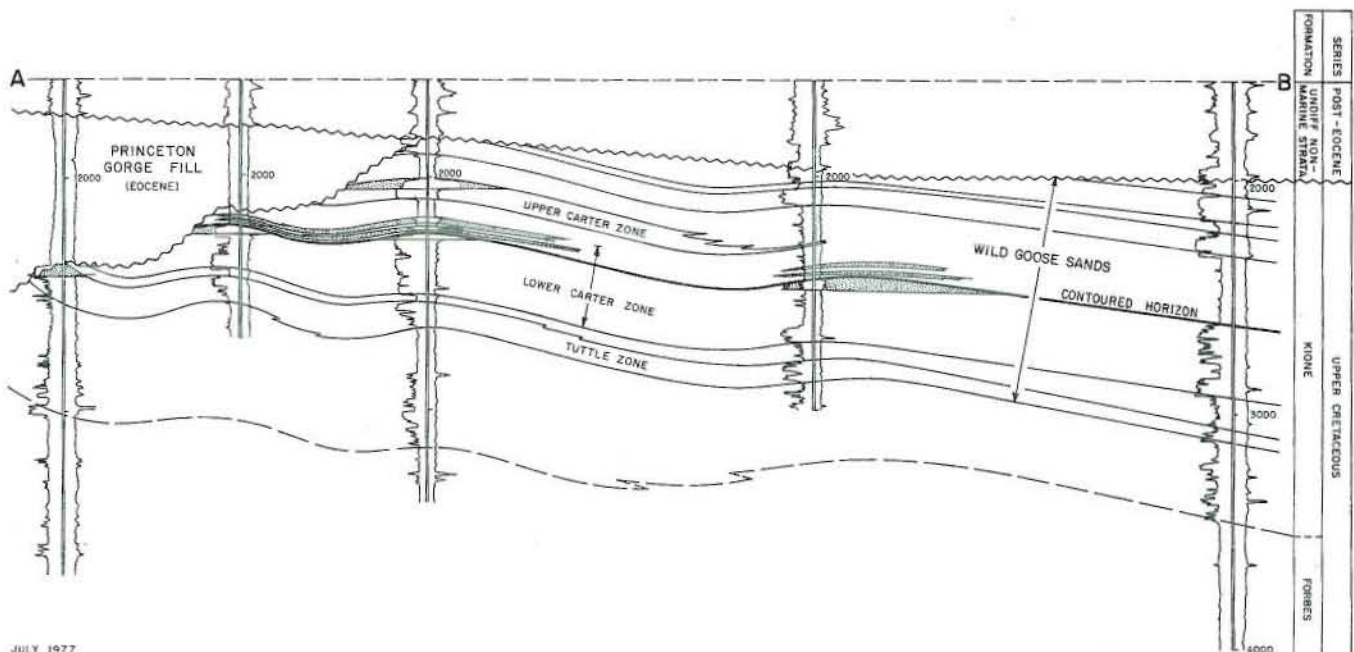
REFERENCES: Lorshbough, A. L., Clarksburg Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 55, No. 1 (1969).

January 1978

# COMPTON LANDING GAS FIELD



CONTOURS ON TOP OF MAIN CARTER SAND





# CALIFORNIA DIVISION OF OIL AND GAS

COMPTON LANDING GAS FIELD (Field)  
Colusa County (County)

LOCATION: 5 miles south of Princeton

ELEVATION: 80

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Upper Carter	Exxon Corp. "Carter" 1	Honolulu Oil Corp. "Honolulu-Humble Carter" 1	7 17N 1W	MD	1,470	800	20/64	Nov. 1955
Catfish	Gulf Oil Corp. "Rheem-Hammer" 1	Universal Consolidated Oil Co. "Rheem-Hammer" 1	5 17N 1W	MD	5,130	830	32/64	Sep. 1960
Lower Carter	Exxon Corp. "Carter" 1	Honolulu Oil Corp. "Honolulu-Humble Carter" 1	7 17N 1W	MD	1,650	860	20/64	Nov. 1955
Tuttle	Exxon Corp. "Tuttle Unit 1" 1	Honolulu Oil Corp. "Honolulu-Humble Tuttle Unit" 1	12 17N 2W	MD	1,400	990	16/64	July 1955
(Unnamed)	Exxon Corp. "Carter" 2	Humble Oil & Refg. Co. "Carter" 2	18 17N 1W	MD	1,270	800	13/64	July 1963

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Aminoil USA, Inc. "Ferry" 1	Signal Oil & Gas Co. "Ferry" 1	Dec. 1971	30 17N 1W	MD	10,777	Venado	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Upper Carter	2,020	40	Late Cretaceous	Kione	810	12,000	860	III B 2M
Catfish	2,310	20	Late Cretaceous	Kione	N.A.	17,600	980	III B 2M
Lower Carter	2,190	60	Late Cretaceous	Kione	810	12,000	950	III B 2M
Tuttle	2,550	40	Late Cretaceous	Kione	920	12,000	1,015	III B 2M
(Unnamed)	6,260	15	Late Cretaceous	Forbes	800	12,000	4,450	III B 5M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
61,016	1	130	1	8,134,474	1,089,651	1960	25	11	440

SPACING ACT: Applies

BASE OF FRESH WATER: 1,300

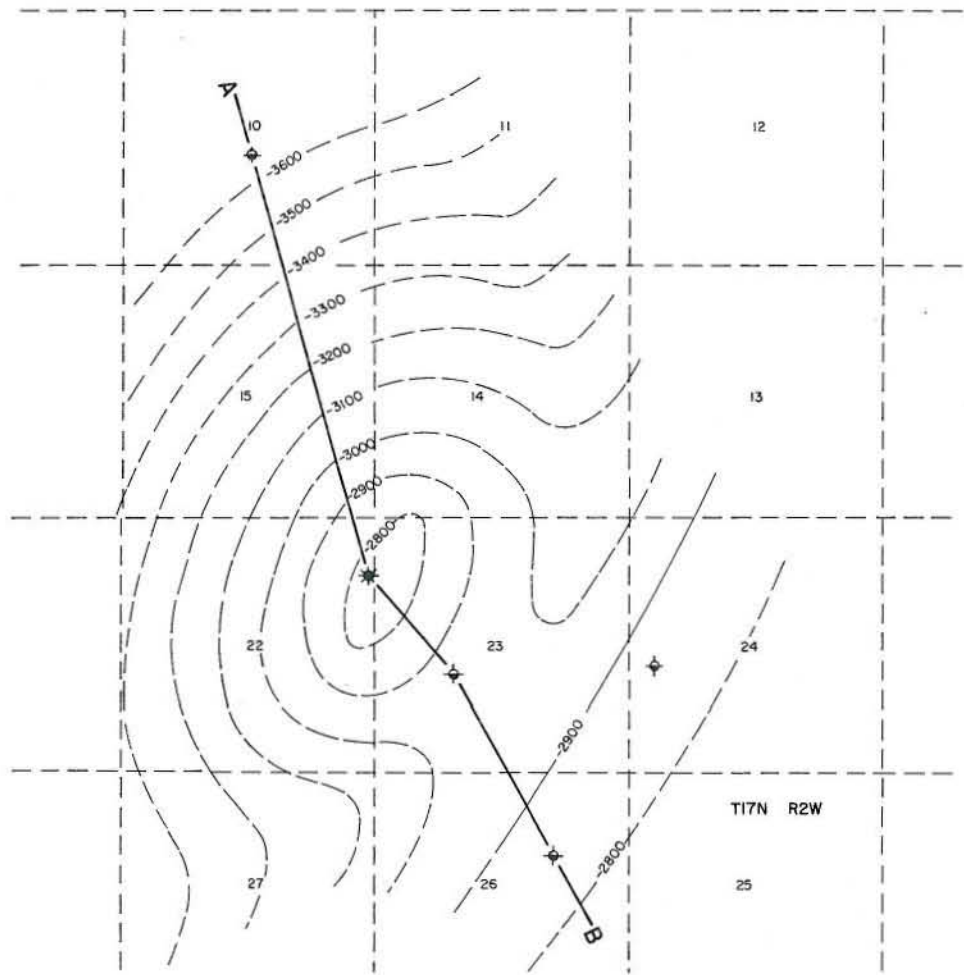
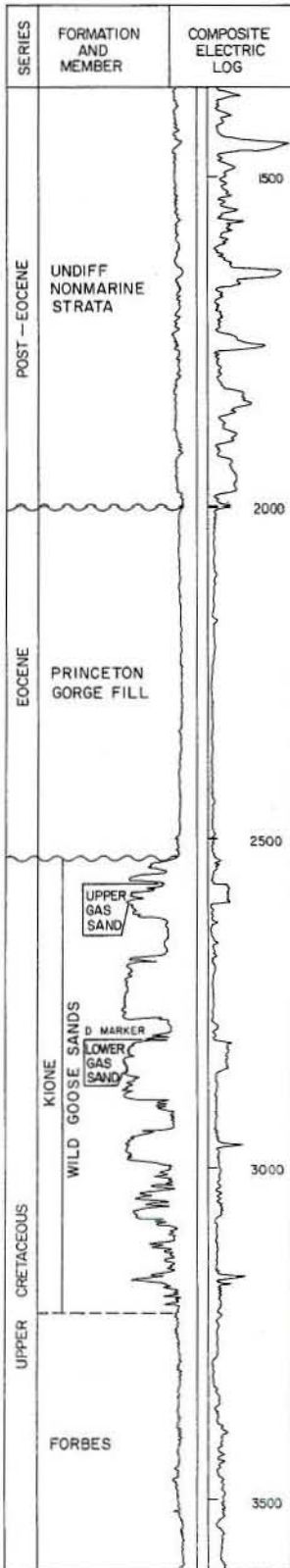
CURRENT CASING PROGRAM: Kione Formation: 9 5/8" cem. 600; 5 1/2" cem. through zone and across base of freshwater sands.  
Forbes Formation: 13 3/8" cem. 600; 9 5/8" cem. 3,000; 5 1/2" cem. through zone.

REMARKS: Commercial gas deliveries began in September 1957.

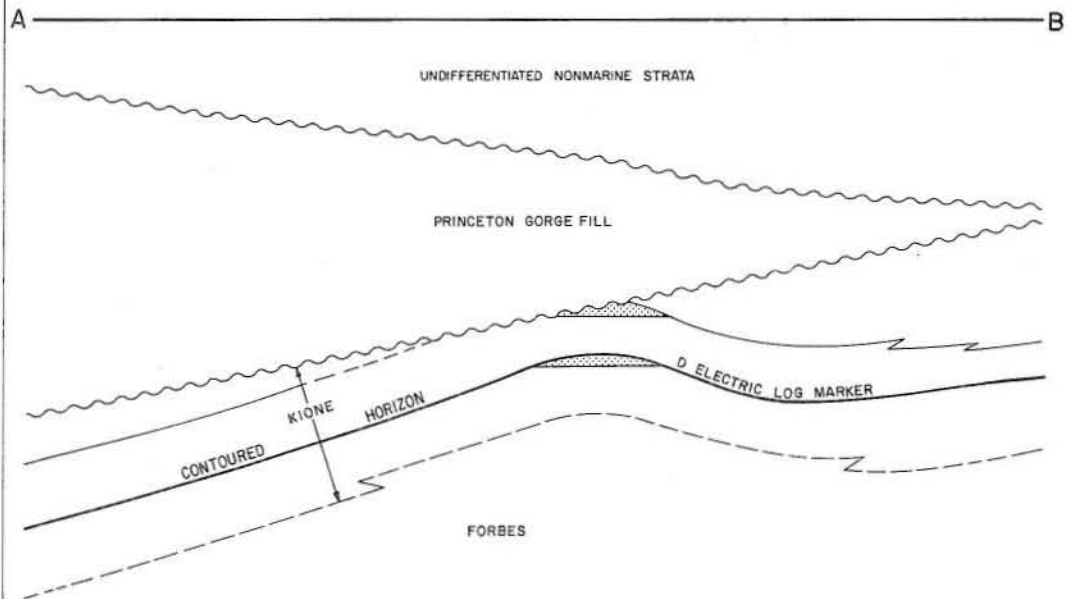
REFERENCES: Bruce, D. D., Compton Landing Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).

January 1978

# SOUTH COMPTON LANDING GAS FIELD



CONTOURS ON D ELECTRIC LOG MARKER



# CALIFORNIA DIVISION OF OIL AND GAS

COMPTON LANDING, SOUTH, GAS FIELD (Field)  
Colusa County (County)

LOCATION: 6 miles southwest of Princeton

ELEVATION: 70

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Shell Oil Co. "Transamerica" 1-22	Same	22 17N 2W	MD	N.A.	N.A.	N.A.	Jan. 1976
(Unnamed)	Same	Same	22 17N 2W	MD	405	1,150	N.A.	Jan. 1976

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Transamerica" 1-22	Same	Dec. 1975	22 17N 2W	MD	3,900	Forbes	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,600	50	Late Cretaceous	Klone	N.A.	N.A.	N.A.	III B 2M
(Unnamed)	2,850	15	Late Cretaceous	Klone	757	N.A.	1,270	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	See Remarks	--	1	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,600

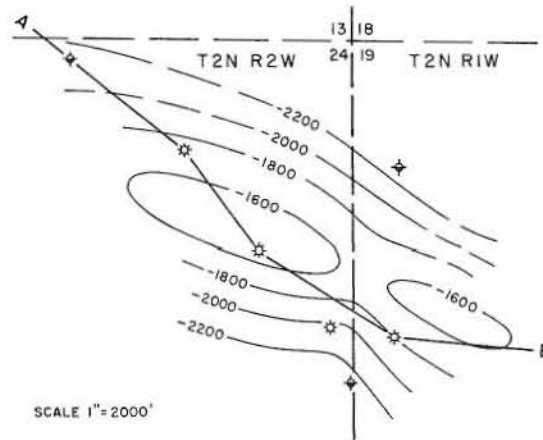
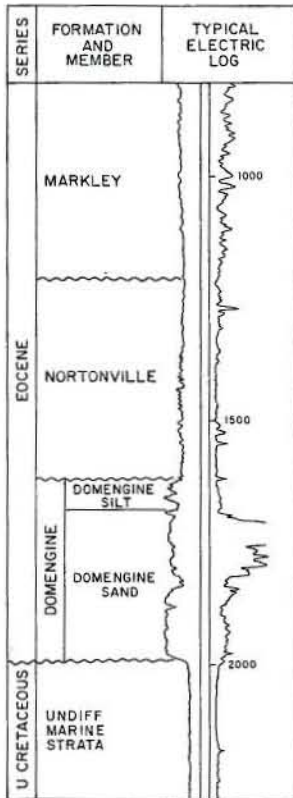
CURRENT CASING PROGRAM: 8 5/8" cem. 1,200'; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in September 1977.

REFERENCES: None

January 1978

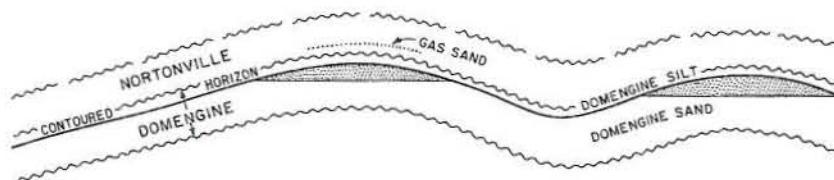
# CONCORD GAS FIELD (Abandoned)



CONTOURS ON TOP OF DOMENGINE SAND

A ————— B

MARKLEY



UNDIFF. MARINE STRATA



CALIFORNIA DIVISION OF OIL AND GAS

CONCORD GAS FIELD (Abandoned) (Field)  
 Contra Costa County (County)

LOCATION: 1 mile north of Concord

ELEVATION: 120

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Nortonville Domengine (Unnamed)	Getty Oil Co. "Concord Unit 2" 1	Tidewater Oil Co. "Concord Unit 2" 1	24 2N 2W	MD	2,000	540	24/64	July 1964
	Chevron U.S.A. Inc. "Boylan" 1	Standard Oil Co. of Calif. "Boylan" 1	24 2N 2W	MD	1,950	724	19/64	Dec. 1962
	Chevron U.S.A. Inc. "Boylan" 1	Standard Oil Co. of Calif. "Boylan" 1	24 2N 2W	MD	2,725	780	3/8	Dec. 1962

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Chevron U.S.A. Inc. "Boylan" 1	Standard Oil Co. of Calif. "Boylan" 1	Nov. 1962	24 2N 2W	MD	4,442	G or H zone (Goudkoff)	Late Cret.

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville Domengine (Unnamed)	1,650	20	Eocene	Nortonville	1,000	N.A.	825	III B 2M
	1,900	17	Eocene	Domengine	990	2,910	1,240	III B 2M
	2,208	90	Late Cretaceous	Undiff. marine strata	980	11,810	1,200	III B 2M

PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	3,068,869	938,823	1964	8	4	160

SPACING ACT: Applies

BASE OF FRESH WATER: Above 500

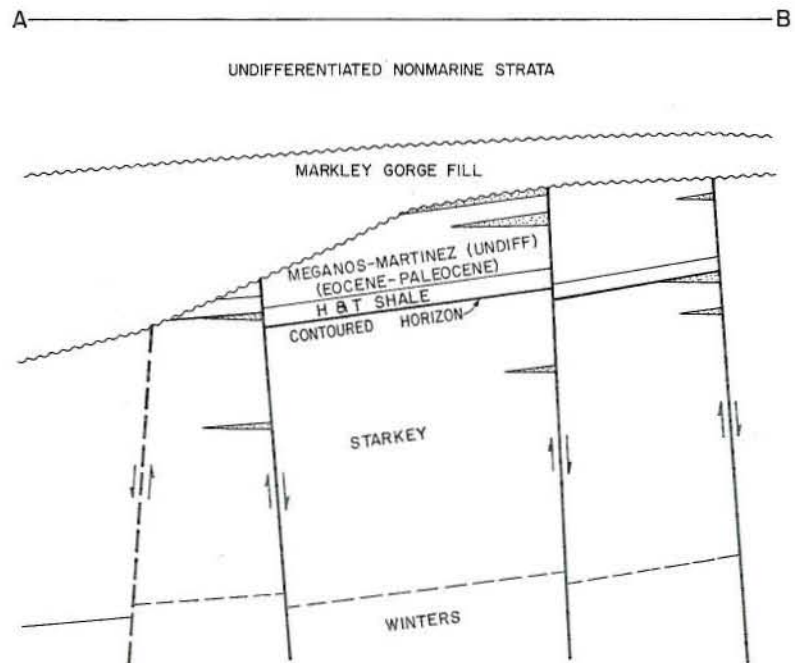
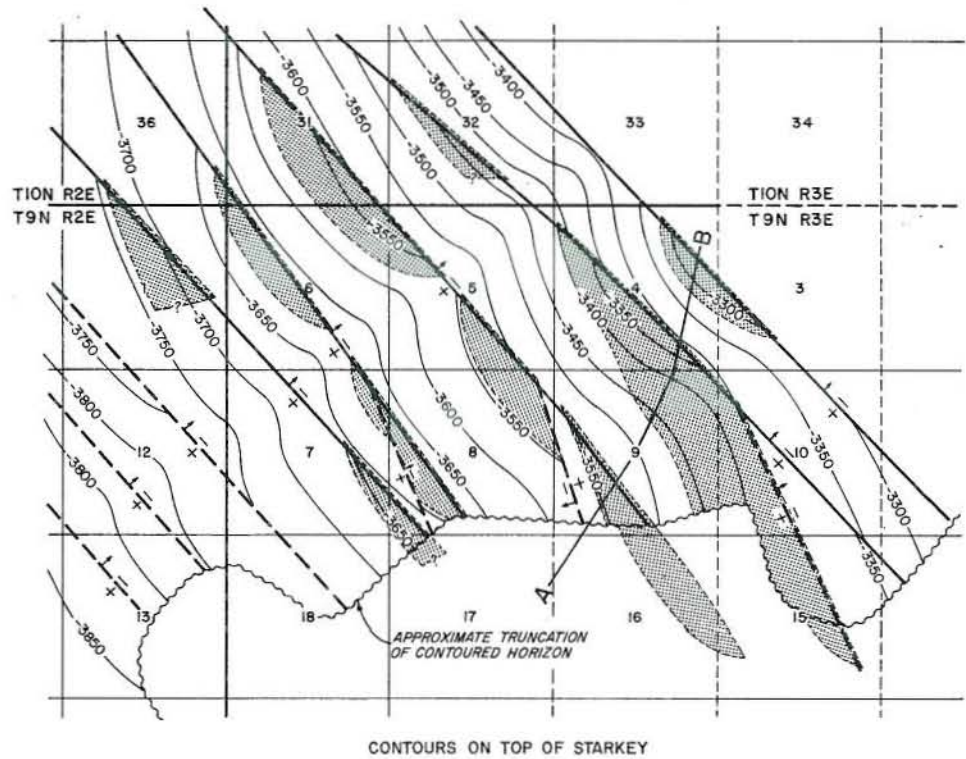
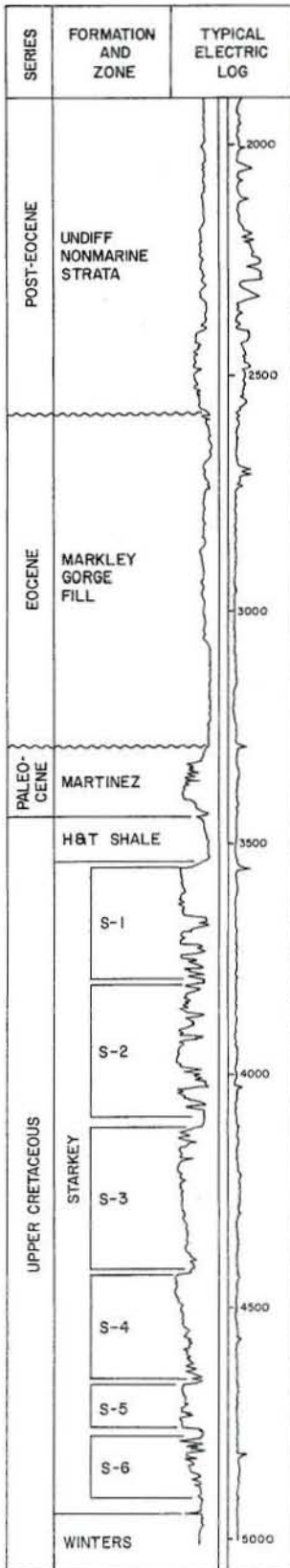
CURRENT CASING PROGRAM: 10 3/4" or 8 5/8" cem. 500 to 900; 7" to 4 1/2" cem. through zone.

REMARKS: Commercial gas deliveries began in March 1963. The field was abandoned in September 1969.

REFERENCES: None

January 1978

# CONWAY RANCH GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

CONWAY RANCH GAS FIELD (Field)  
Yolo County (County)

LOCATION: 6 miles east of Woodland

ELEVATION: 19

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Shell Oil Co. "I.O.C." 15-1	Same	15 9N 3E	MD	6,250	1,040	1/2	July 1973
(Unnamed)	Shell Oil Co. "Natomas I.O.C." 1	Same	9 9N 3E	MD	5,310	1,110	Var.	June 1973
S-1	Atlantic Oil Co. "I.O.C." 2	Same	8 9N 3E	MD	3,200	1,425	21/64	July 1972
S-3	Same	Same	8 9N 3E	MD	3,400	1,500	21/64	July 1972
(Unnamed)	Chanslor-Western Oil & Dev. Co. "ARCO-W.F.L." 1	Westates Pet. Co. "ARCO-W.F.L." 1	1 9N 2E	MD	5,000	1,675	3/8	June 1975

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Buttes Resources Co. "Humble-Investment Opr. Inc." 2	Buttes Gas & Oil Co. "Humble-Investment Opr. Inc." 2	Sep. 1965	1 9N 2E	MD	6,700	Kione	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,900	20	Eocene-Paleocene	Meganos-Martinez	770	N.A.	1,390	III B 2M
(Unnamed)	3,000	30	Eocene-Paleocene	Meganos-Martinez	764	N.A.	1,340	III B 2M
S-1	3,600	30	Late Cretaceous	Starkey	860	N.A.	1,720	III B 2M
S-3	4,210	20	Late Cretaceous	Starkey	720	N.A.	1,860	III B 2M
(Unnamed)	5,160	10	Late Cretaceous	Winters	N.A.	N.A.	2,320	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
3,215,662	5,883	2,180	20	9,300,151	3,824,342	1975	57	31	2,180

SPACING ACT: Applies

BASE OF FRESH WATER: 2,200-2,600

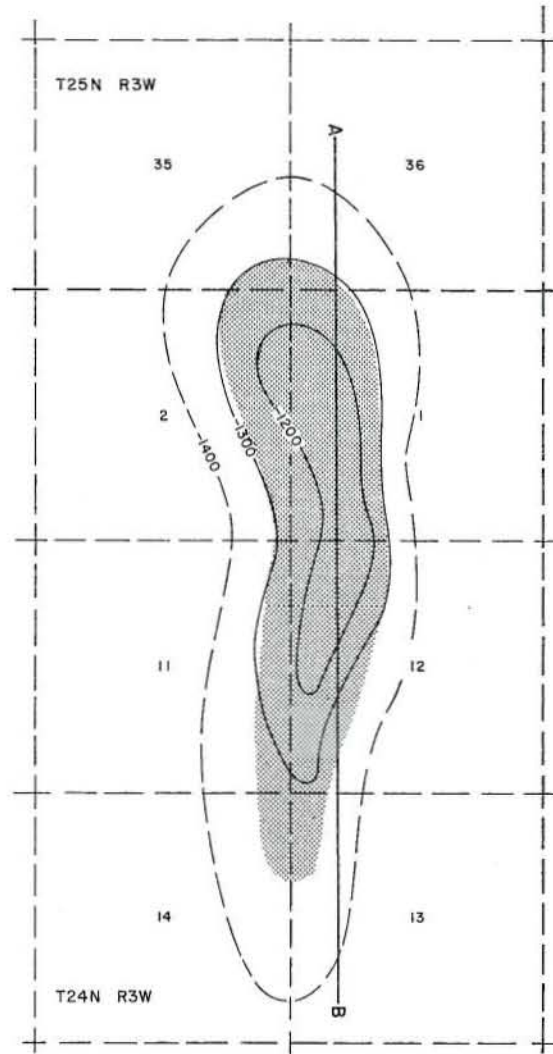
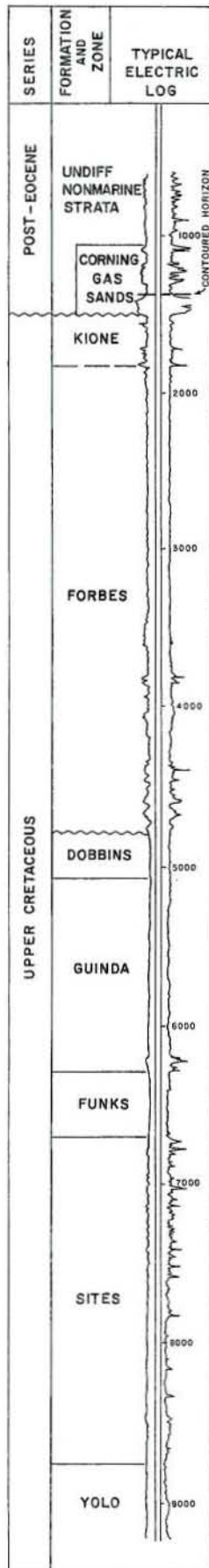
CURRENT CASING PROGRAM: 8 5/8" cem. 500-600; 4 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in December 1973.

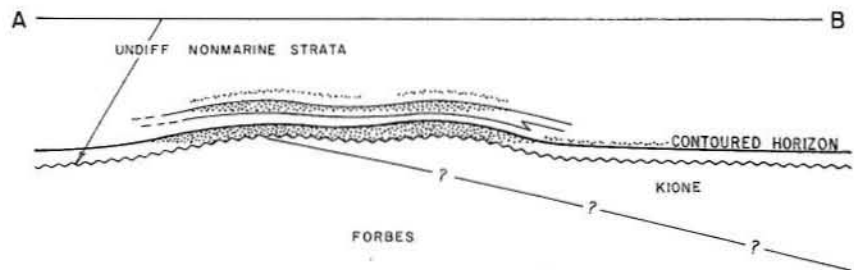
REFERENCES: None

January 1978

# CORNING GAS FIELD (Abandoned)



CONTOURS ON TOP OF LOWER GAS SAND





## CALIFORNIA DIVISION OF OIL AND GAS

CORNING GAS FIELD (Abandoned)

Tehama County

LOCATION: 1 mile northeast of Corning

TYPE OF TRAP: Anticline

ELEVATION: 250

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Corning sands	The Superior Oil Co. "Saldubehere" 1	Same as present	12 24N 3W	MD	17,676	380	1	Oct 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	May 1944	12 24N 3W	MD	9,225	Yolo	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Corning sands	980-1,450	5 - 120 per sand bed	post-Eocene	Undiff. nonmarine strata	760	290 - 820	415 - 645	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	7,975,443	1,349,947	1955	24	14	660

SPACING ACT: Applies

BASE OF FRESH WATER: 1,000

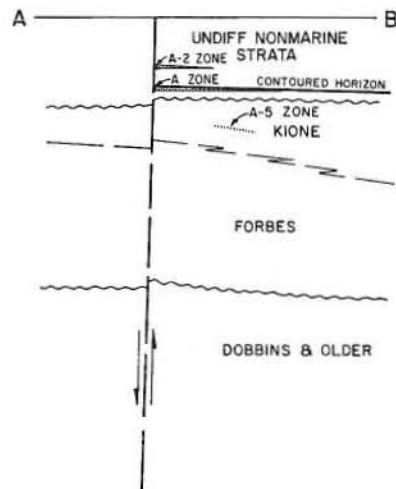
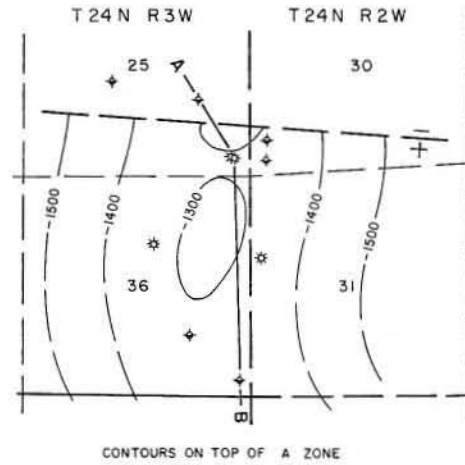
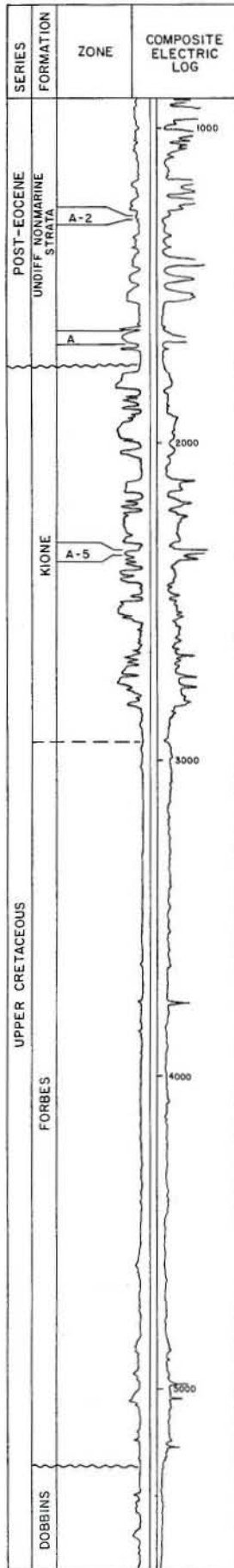
CURRENT CASING PROGRAM: 10 3/4" cem 500; 7" combination string landed through zone, and cem through ports above the zone and across the base of the fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in July 1954. The field was abandoned in July 1971.

REFERENCES:

# **SOUTH CORNING GAS FIELD** (Abandoned)



# CALIFORNIA DIVISION OF OIL AND GAS

CORNING, SOUTH, GAS FIELD (Abandoned)  
Tehama County (Field)  
(County)

LOCATION: 2 miles southeast of Corning

ELEVATION: 225

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
A-2	Buttes Resources Co. "Saldubehere" A-2	Buttes Gas & Oil Co. "Saldubehere" A-2	25 24N 3W	MD	2,000	340	1/2	May 1957
A	Buttes Resources Co. "Saldubehere - Buttes" A	The Buttes Oilfields, Inc. "Saldubehere - Buttes" A	25 24N 3W	MD	1,955	635	3/8	Feb. 1951
A-5	Buttes Resources Co. "Saldubehere" A-5	Buttes Gas & Oil Co. "Saldubehere" A-5	36 24N 3W	MD	2,995	880	3/8	Sep. 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Northern Counties Petroleum Co. "Ewers Mooney" 1	Same	Aug. 1934	25 24N 3W	MD	8,253	Sites	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
A-2	1,185	10	post-Eocene	Undiff. nonmarine strata	870	N.A.	520	III B 2M
A	1,560	15	post-Eocene	Undiff. nonmarine strata	870	N.A.	680	III B 2M
A-5	2,340	20	Late Cretaceous	Kione	940	N.A.	1,010	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	1,256,799	218,595	1956	10	4	80

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100

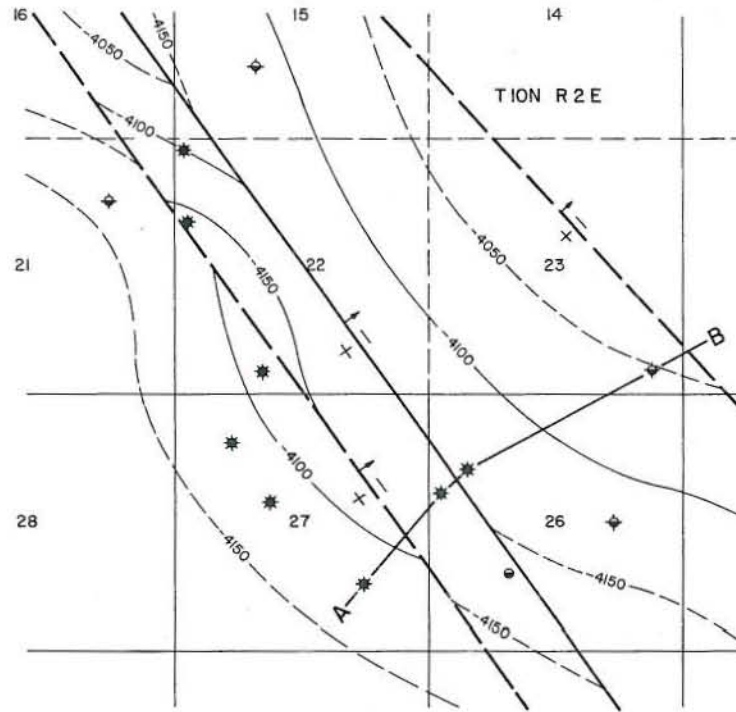
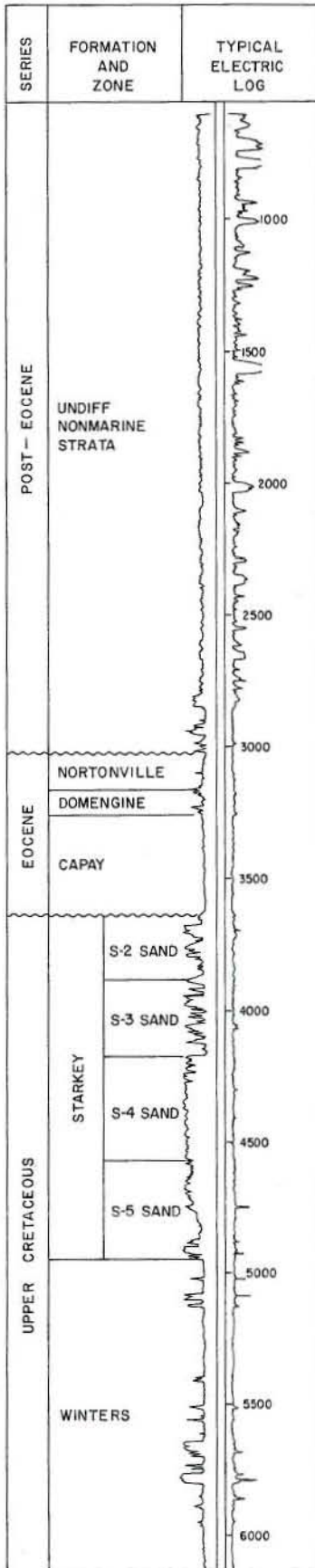
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zones and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in July 1954 and ceased in August 1971. The field was abandoned in August 1972.

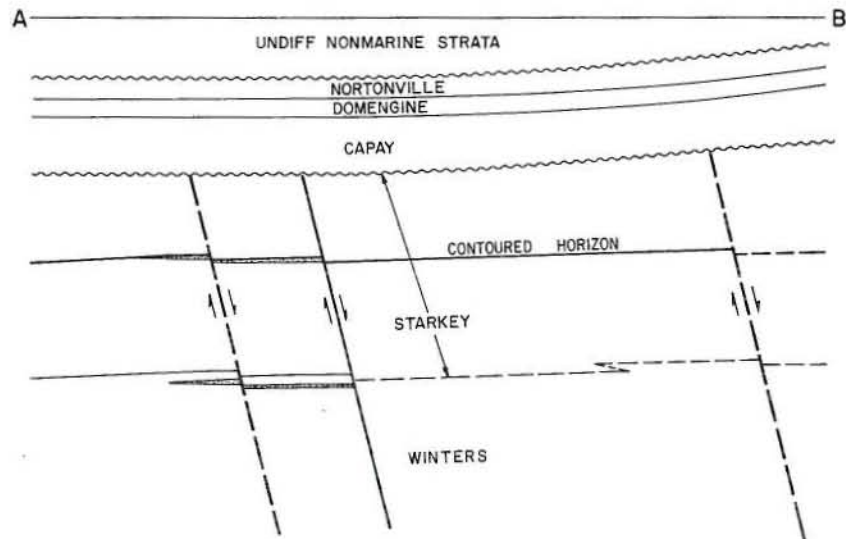
REFERENCES: None

January 1978

# CROSSROADS GAS FIELD



CONTOURS ON TOP OF S-4 SAND





CALIFORNIA DIVISION OF OIL AND GAS

CROSSROADS GAS FIELD (Field)  
Yolo County (County)

LOCATION: 2 miles east of Woodland

ELEVATION: 40

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
S-3 (Unnamed)	Chevron U.S.A. Inc. "Amstar" 1 Same	Standard Oil Co. of Calif. "Amstar" 1 Same	22 10N 2E	MD	2,000	1,628	1/2	May 1976
			22 10N 2E	MD	2,600	1,710	1/2	May 1976

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Chevron U.S.A. Inc. "U.C. Regents" 1	Standard Oil Co. of Calif. "U.C. Regents" 1	Dec. 1976	22 10N 2E	MD	6,154	Winters	Late Cret.

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
S-3 (Unnamed)	4,150	35	Late Cretaceous	Starkey	N.A.	N.A.	2,050	III B 3M
	4,985	20	Late Cretaceous	Winters	N.A.	N.A.	2,440	III B 3M

PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	830	0	0	See Remarks	--	10	8	830

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

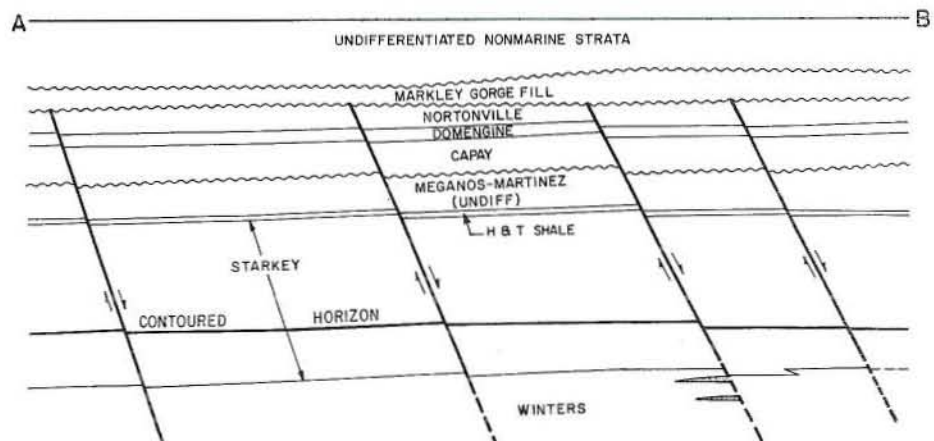
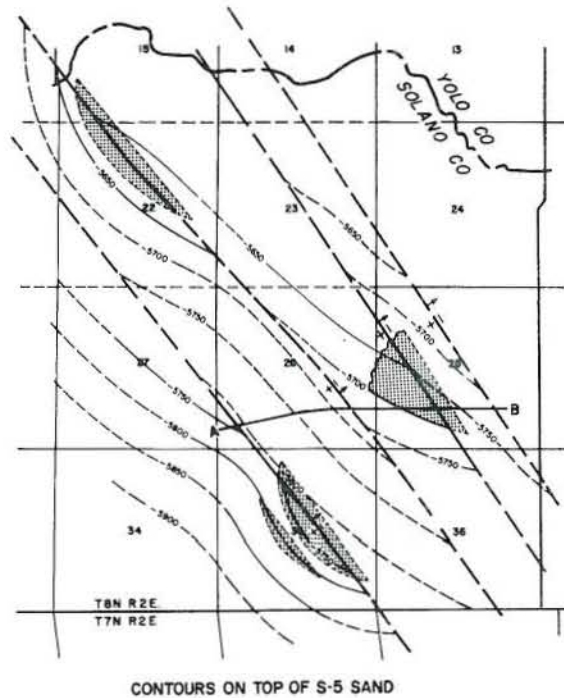
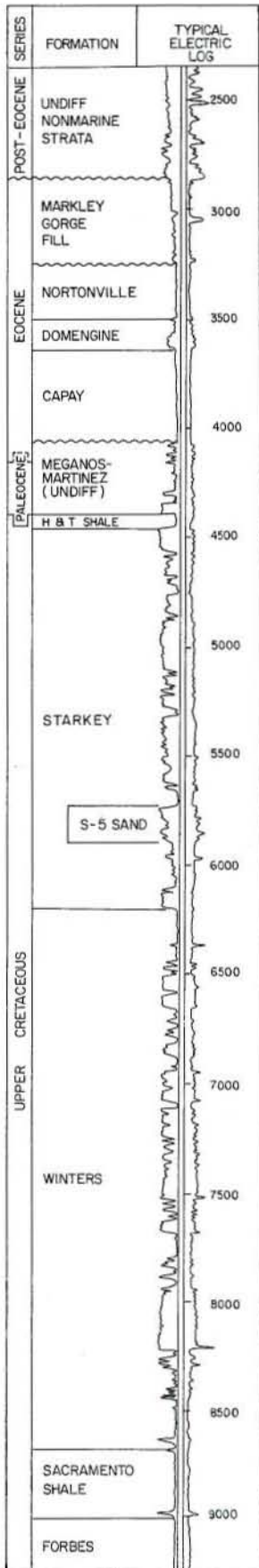
CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" cem. through zones and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in September 1977.

REFERENCES: None

January 1978

# DAVIS SOUTHEAST GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

DAVIS SOUTHEAST GAS FIELD (Field)  
Solano and Yolo Counties (County)

LOCATION: 2 miles southeast of Davis

ELEVATION: 40

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Anacapa Oil Corp. "Anacapa Jones" 1	Joseph M. Thomas "Anacapa Jones" 1	35 8N 2E	MD	891	N.A.	N.A.	Nov. 1977*
(Unnamed)	Anacapa Oil Corp. "Hamel-Nishi" 1	Same	22 8N 2E	MD	2,010	2,125	1/2	Oct. 1973
(Unnamed)	Phillips Petroleum Co. "Beltrami A" 1	Same	25 8N 2E	MD	6,269	1,780	3/8	Apr. 1965

Remarks: \* Date of recompletion; originally completed in the Winters Formation.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Phillips Petroleum Co. "Beltrami A" 1	Same	Mar. 1965	25 8N 2E	MD	9,207	Forbes	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	3,535	5	Eocene	Domengine	N.A.	N.A.	930	III B 2M
(Unnamed)	6,130	9	Late Cretaceous	Starkey	871	12,670	2,850	III B 3M
(Unnamed)	6,450	15	Late Cretaceous	Winters	925	12,980	2,910	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
161,136	1,806	230	4	1,834,277	432,204	1973	17	5	290

SPACING ACT: Applies

BASE OF FRESH WATER: 2,600-3,100

CURRENT CASING PROGRAM: 8 5/8" cem. 700-1,000; 4 1/2" cem. through zone and across base of freshwater sands.

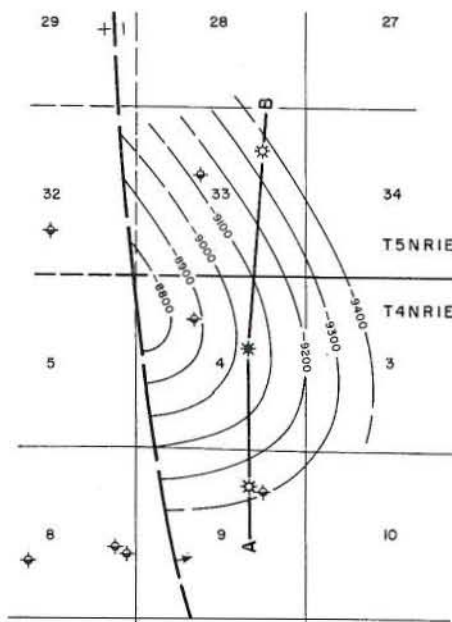
REMARKS: Commercial gas deliveries began in December 1966. The field was abandoned in April 1971 and reactivated in July 1972.

REFERENCES: None

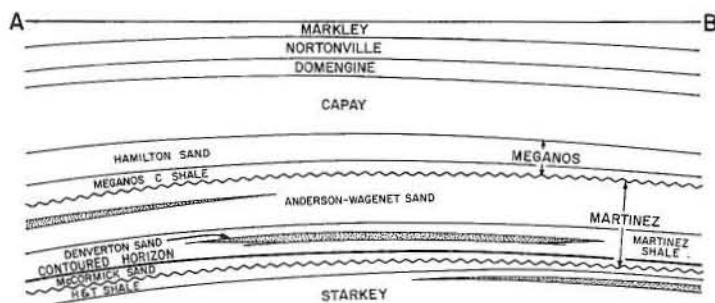
January 1978

# DENVERTON CREEK GAS FIELD

SERIES	FORMATION	MEMBER & ZONE	TYPICAL ELECTRIC LOG
POST-EOCENE	UNDIFFERENTIATED NONMARINE STRATA		3000
EOCENE	MARKLEY		4000
			5000
			6000
	NORTONVILLE		
	DOMENGINE		
PALEOCENE	CAPAY		7000
	MEGANOS	HAMILTON SAND	8000
		MEGANOS C SHALE	
	MARTINEZ	ANDERSON-WAGENET SAND	
		MARTINEZ SHALE	9000
		DEWENTON SAND	
UPPER CRETACEOUS	STARKEY	MCCORMICK SAND	
		H&T SHALE	10000



CONTOURS ON TOP OF MCCORMICK SAND





## CALIFORNIA DIVISION OF OIL AND GAS

DENVERTON GAS FIELD (Abandoned)

Solano County

LOCATION: 2 miles northwest of Denverton, 6 miles east of Fairfield

TYPE OF TRAP: Faulted nose

ELEVATION: 35

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Martinez	Getty Oil Co. "A. Peterson" 1	Honolulu Oil Corp. "A. Peterson" 1	25 5N 1W	MD	1,110	750	14/64	Aug 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. "McCormack Estate" 1	Honolulu Oil Corp. "McCormack Estate" 1	Apr 1948	36 5N 1W	MD	3,001	Undiff. Marine	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Martinez	1,425	25	Paleocene	Martinez	N.A.	180	873	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	231,525	99,910	1950	4	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 100 - 900

CURRENT CASING PROGRAM: 13 3/8" cem. 500; 8 5/8" cem. 1,625; 5 1/2" cem. through zone.

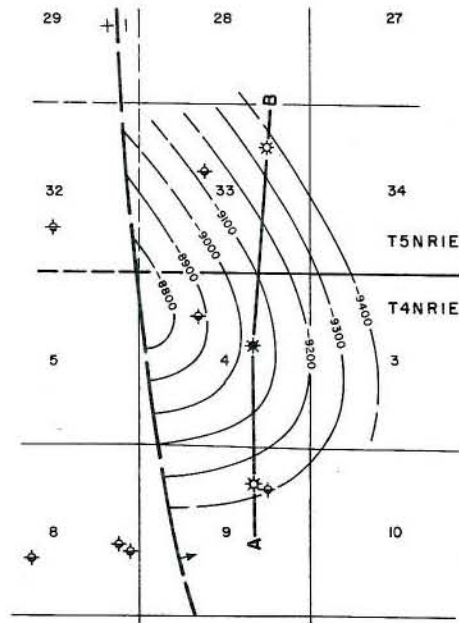
METHOD OF WASTE DISPOSAL:

REMARKS: The field was abandoned in 1953.

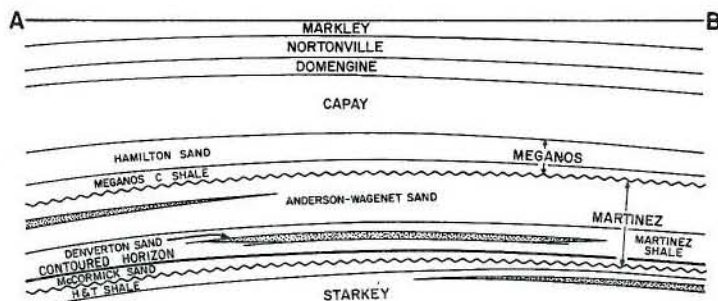
REFERENCES:

# DENVERTON CREEK GAS FIELD

SERIES	FORMATION	MEMBER & ZONE	TYPICAL ELECTRIC LOG
POST-EOCENE	UNDIFF. NONMARINE STRATA		3000
EOCENE	MARKLEY		4000
			5000
	NORTONVILLE		6000
		DOMENGINE	
PALEOCENE	CAPAY		7000
	MEGANOS	HAMILTON SAND	8000
		MEGANOS C SHALE	
	MARTINEZ	ANDERSON-WAGENET SAND	
		MARTINEZ SHALE	9000
		DENVERTON SAND	
UPPER CRETACEOUS	STARKEY	MCCORMICK SAND	
		H&T SHALE	10000



CONTOURS ON TOP OF MCCORMICK SAND



# CALIFORNIA DIVISION OF OIL AND GAS

DENVERTON CREEK GAS FIELD

Solano County

LOCATION: 10 miles northwest of Rio Vista

TYPE OF TRAP: Faulted nose; sand pinchouts

ELEVATION: 85

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Anderson - Wagenet Denverton (Heidorn)	Mobil Oil Corp. "Lambie" 1	Same as present	9 4N 1E	MD	158	2,650	1/2	Sep 1967
	Occidental Petroleum Corp. "Mobil-Signal" 1	Same as present	4 4N 1E	MD	4,947	1,600	20/64	Nov 1968
(Unnamed)	Mobil Oil Corp. "Trojan Powder Co." 1	Same as present	33 5N 1E	MD	1,285	2,110	14/64	Oct 1966

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Trojan Powder Co." 1	Same	Aug 1966	33 5N 1E	MD	11,209	Winters	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Anderson-Wagenet	8,585	15	Paleocene	Martinez	1,045	90	3,730	IV
Denverton (Heidorn)	8,930	35	Paleocene	Martinez	1,045	240 - 1,990	4,680	V
(Unnamed)	9,890	30	Lt Cretaceous	Starkey	1,070	580	4,800	V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbi)				(Mcf)	Year	Drilled	Completed	
1,141	13	60	1	711,736	225,706	1970	6	3	160

SPACING ACT: Applies

BASE OF FRESH WATER: 1,500 - 2,500

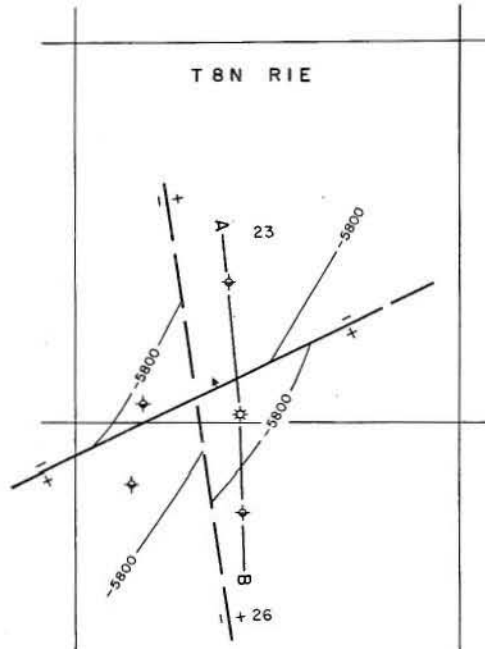
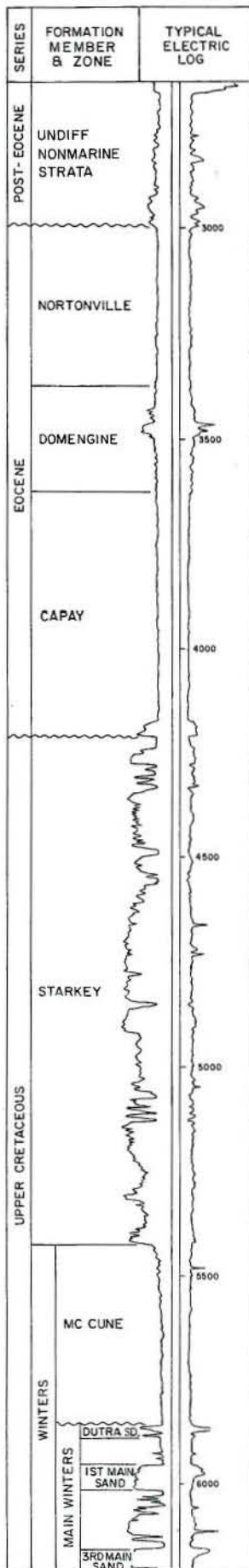
CURRENT CASING PROGRAM: 13 3/8" cem. 300; 9 5/8" cem. 2,000; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

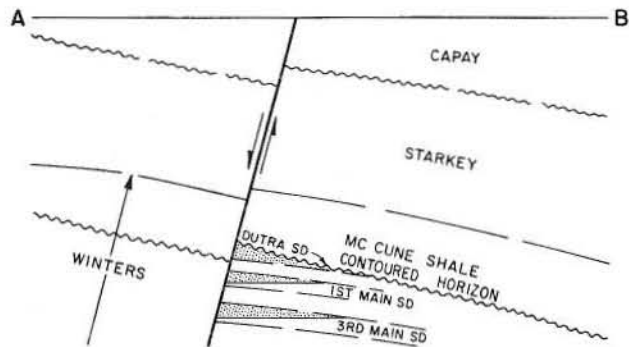
REMARKS: Commercial gas deliveries began in March 1967. 1972 condensate production 98 bbl.; cumulative condensate production 2,788 bbl.

REFERENCES:

# DIXON GAS FIELD (Abandoned)



CONTOURS ON TOP OF MAIN WINTERS





# CALIFORNIA DIVISION OF OIL AND GAS

DIXON GAS FIELD (Abandoned)

Solano County

LOCATION: 5 miles north of Dixon

TYPE OF TRAP: Faulted homocline

ELEVATION: 90

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Dutra	Q.R. Grenfell & Son "Dutra et al" 1	S.M. Reynolds Oper. "Dutra et al" 1	23 8N 1E	MD				
1st Main	Same as above	Same as above	23 8N 1E	MD	8,420	1,780	28/64	Jun 1963
3rd Main	Same as above	Same as above	23 8N 1E	MD				

Remarks: Production from the three zones was commingled. During a back-pressure test in June 1963, gas was produced as follows:

Dutra zone: 5,000 Mcf per day, 2,140 psi flow pressure, 5/16" bean.

1st and 3rd Main zones (commingled): 4,880 Mcf per day, 2,100 psi flow pressure, 5/16" bean.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Cameron Oil Co. "Burroughs" 1	Same	Jun 1963	23 8N 1E	MD	7,912	Winters	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Dutra	5,860	10	Lt Cretaceous	Winters	870	1,000	2,685	IV
1st Main	5,950	15	Lt Cretaceous	Winters	865	610	2,670	IV
3rd Main	6,150	10	Lt Cretaceous	Winters	865	610	2,760	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	636,502	226,023	1964	6	1	80

SPACING ACT: Applies

BASE OF FRESH WATER: 2,700

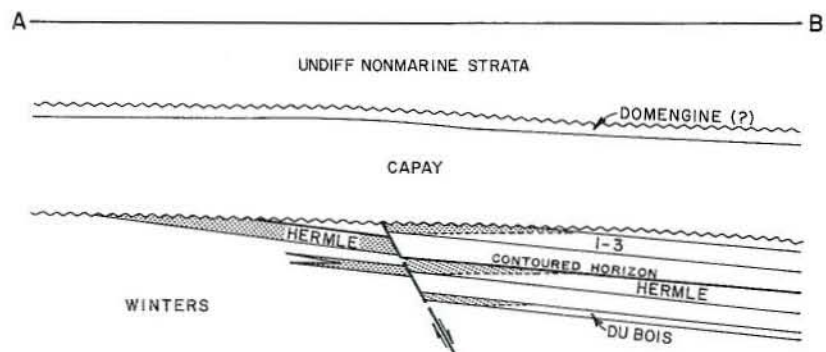
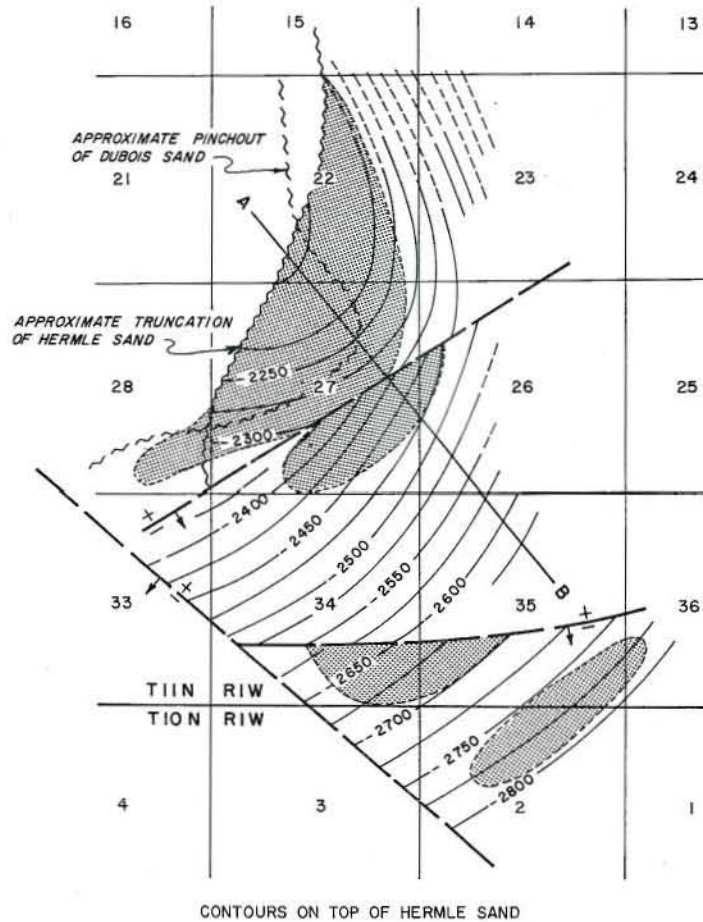
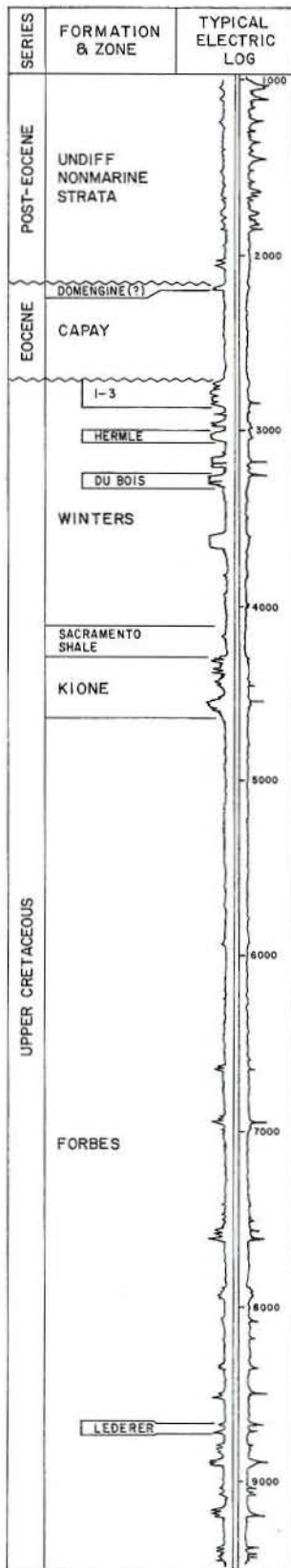
CURRENT CASING PROGRAM: 10 3/4" to 8 5/8" cem. 500; 4 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in June 1964. The producing well was abandoned in January 1971.

REFERENCES:

# DUNNIGAN HILLS GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

DUNNIGAN HILLS GAS FIELD

Yolo County

LOCATION: 12 miles northwest of Woodland

TYPE OF TRAP: Sand pinchout and angular unconformity on faulted nose

ELEVATION: 135

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
1-3	Texaco Inc. "Dunnigan Unit One" 3	The Texas Co. "Dunnigan Unit One" 3	27 11N 1W	MD	A5,000	N.A.	28/64	--
Hermle	Texaco Inc. "Dunnigan Unit One" 1	The Texas Co. "Hermle" 1	22 11N 1W	MD	B3,030	926	3/8	Feb 1946
DuBois	Texaco Inc. "Dunnigan Unit One" 1	The Texas Co. "Hermle" 1	22 11N 1W	MD				
Lederer	Gas Properties, Inc. "Universal Richey, et al" 1	Artnell Co. "Universal Richey, et al" 1	35 11N 1W	MD	C2,250	950	5/16	May 1960

Remarks: A Formation test in August 1947. First commercial production from this zone: The Texas Co. (now Texaco Inc.) "Dunnigan Unit One" 6, Sec. 27, T. 11N., R. 1W., M.D.B.&M., completed in Sep 1950; initial daily production 1,500 Mcf, flow pressure 960 psi, 1/4-inch bean.  
 B Production from Hermle and DuBois zones commingled.  
 C 20 bbl. of 48 degree gravity condensate was also produced.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Hunnicut & Camp Drilling Co. "A.M. Richie" 1	Standard Oil Co. of Calif. "A.M. Richie" 1	Apr 1961	36 11N 1W	MD	9,500	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
1-3	2,450	40	Lt Cretaceous	Winters	970	320	1,040	IV
Hermle	2,465	65	Lt Cretaceous	Winters	970	340	1,060	IV
DuBois	2,650	30	Lt Cretaceous	Winters	970	480	1,080	IV
Lederer	8,400	15	Lt Cretaceous	Forbes	1,035	N.A.	5,005	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
34,341	0	160	1	10,372,228	1,441,810	1952	40	17	1,300

SPACING ACT: Applies

BASE OF FRESH WATER: 1,750

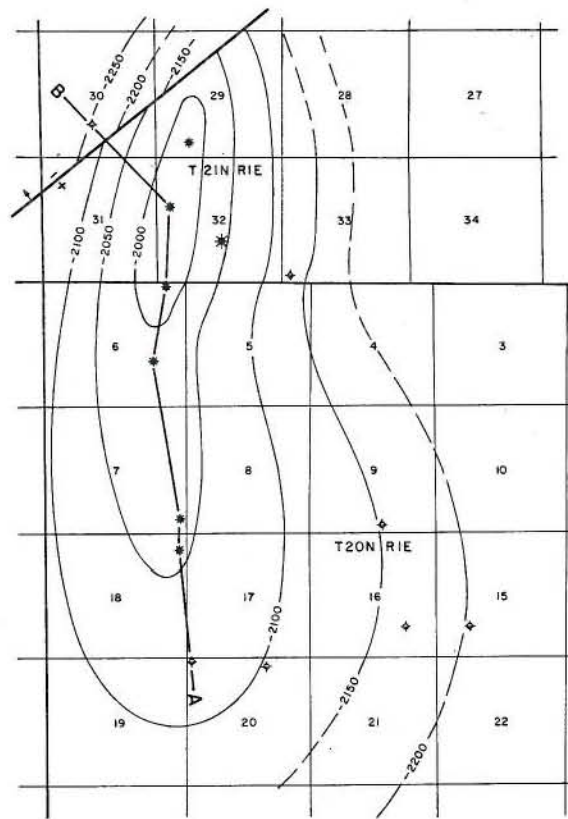
CURRENT CASING PROGRAM: 9 5/8" cem. 500 to 1,000; 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

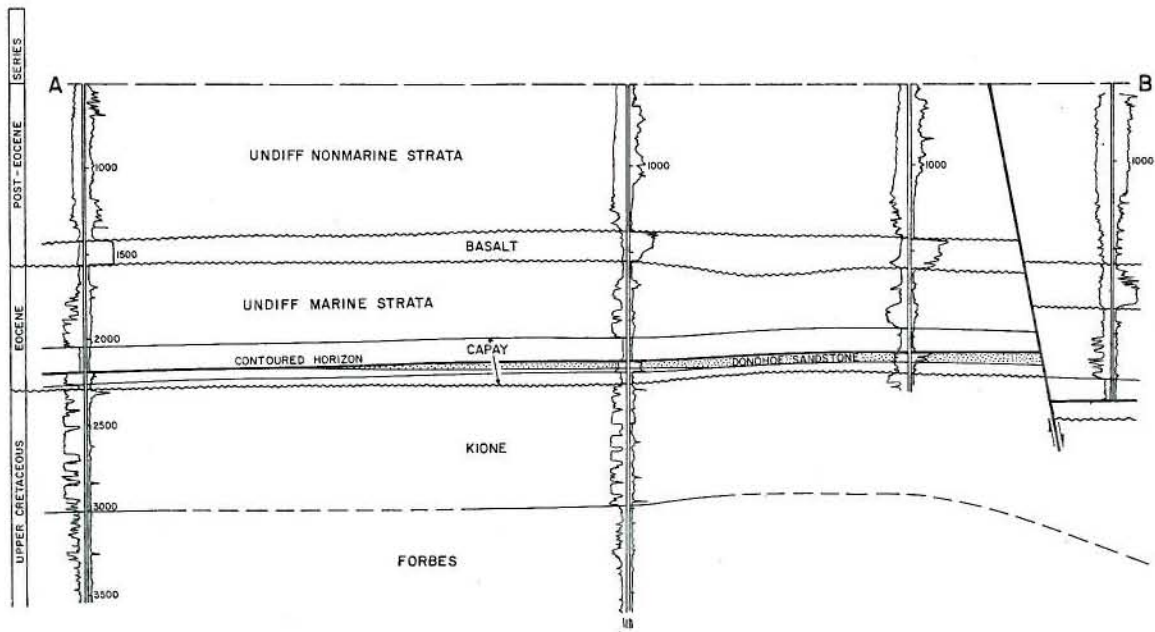
REMARKS: Commercial gas deliveries began in January 1950. No condensate production during 1972; cumulative condensate production 808 bbl.

REFERENCES: Corwin, C.H., Dunnigan Hills Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 37, No. 2 (1951).

# DURHAM GAS FIELD



CONTOURS ON TOP OF DONOHOE SANDSTONE



# CALIFORNIA DIVISION OF OIL AND GAS

DURHAM GAS FIELD

Butte County

LOCATION: 8 miles southwest of Chico

TYPE OF TRAP: Faulted anticline

ELEVATION: 120

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Donohoe	Standard Oil Co. of Calif. "Donohoe Fee" 1	Standard Oil Co. of Calif. "Donohoe Fee" 1	6 20N 1E	MD	10,937	824	7/8	Jul 1946

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Donohoe Fee" 1	Same	May 1946	6 20N 1E	MD	6,000	Guinda	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Donohoe	2,130	35	Eocene	Capay	720	1,320	970	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,703,625	41	1,790	5	23,317,886	1,703,625	1972	7	7	1,790

SPACING ACT: Applies

BASE OF FRESH WATER: 1,150

CURRENT CASING PROGRAM: 9 5/8" cem. 1,400; 5 1/2" cem. through zone.

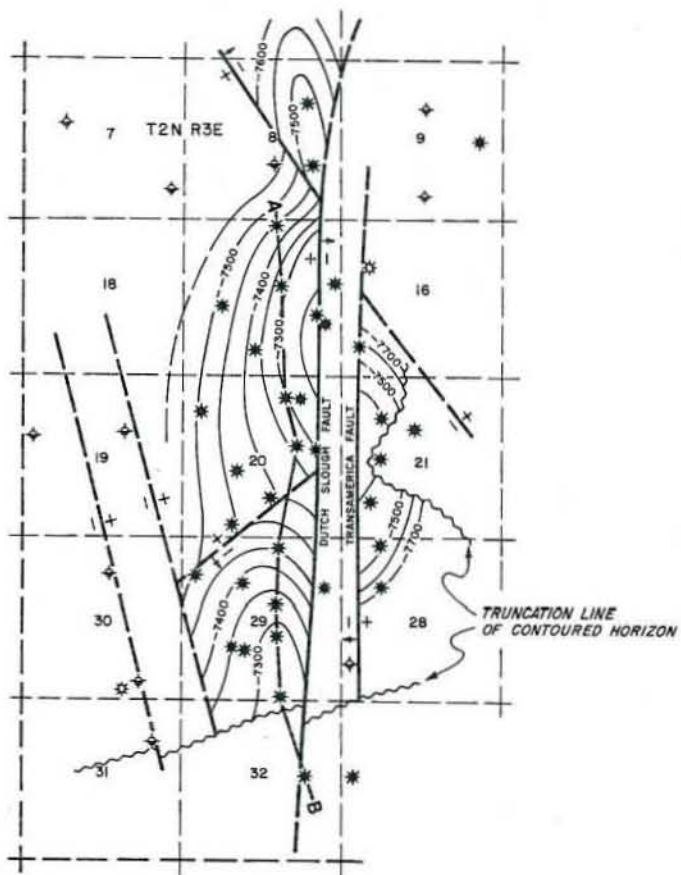
METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in October 1949. Low calorific value of gas is due to high nitrogen content.

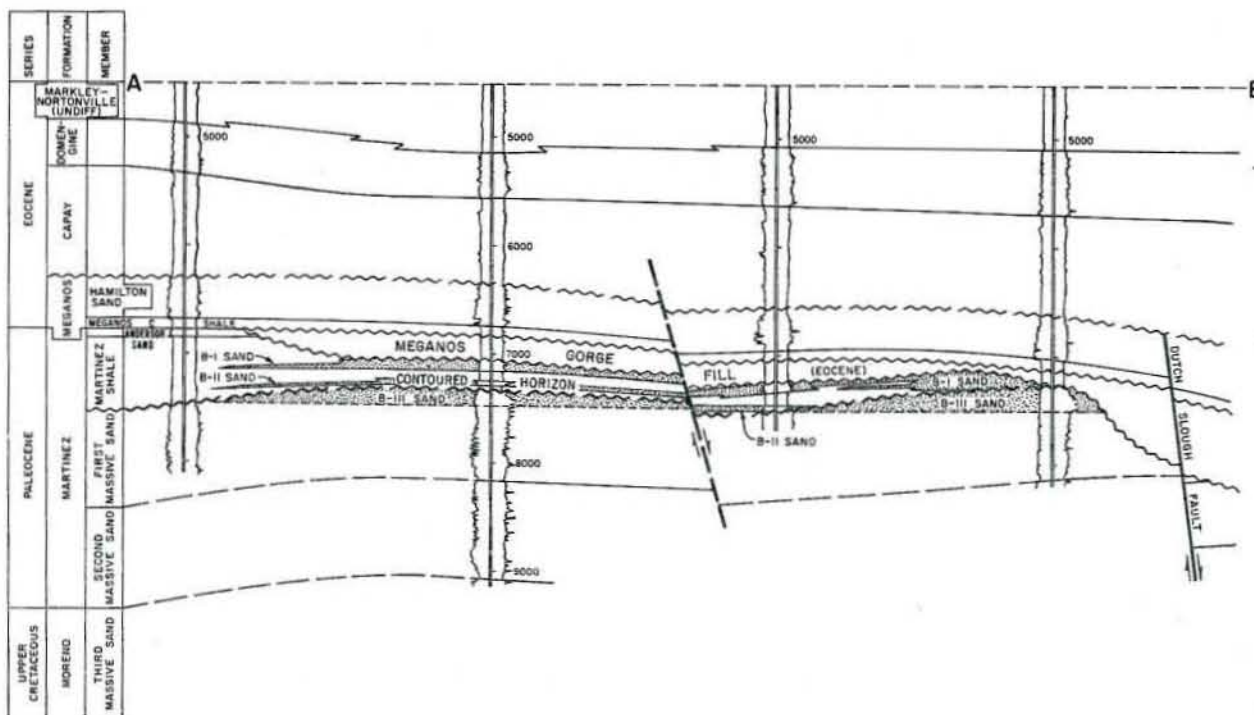
REFERENCES: Weddle, J.R., Durham Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).



# DUTCH SLOUGH GAS FIELD



CONTOURS ON TOP OF B-III SAND



## CALIFORNIA DIVISION OF OIL AND GAS

DUTCH SLOUGH GAS FIELD

Contra Costa County

LOCATION: 11 miles southeast of Rio Vista and 2 miles east of Oakley

TYPE OF TRAP: Faulted anticline; sand pinchouts; truncation by a gorge

ELEVATION: 10

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Anderson	Signal Oil and Gas Co., Unit Oper. "Tract 3" 3-3	Signal Oil and Gas Co. "Signal-Burroughs" 3	20 2N 3E	MD	3,470	1,205	21/64	Mar 1964
B-I	Signal Oil and Gas Co., Unit Oper. "Tract 2" 2-1	Gulf Oil Corp. of Calif. "Gulf-Union Delta Properties Unit A" 1	17 2N 3E	MD	2,415	2,260	14/64	Mar 1964
B-II	Signal Oil and Gas Co., Unit Oper. "Tract 3" 3-3	Signal Oil and Gas Co. "Signal-Burroughs" 3	20 2N 3E	MD	4,730	2,191	18/64	Mar 1964
B-III	Signal Oil and Gas Co., Unit Oper. "Tract 3" 3-1	Signal Oil and Gas Co. "Signal-Burroughs" 1	20 2N 3E	MD	9,700	2,200	26/64	Oct 1963
Second Massive	Occidental Petroleum Corp. "Oakley Unit Four" 2	Same as present	32 2N 3E	MD	1,280	1,435	12/64	Oct 1964

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Signal Oil and Gas Co., Oper. "Tract 1" 1-7	Union Oil Co. of Calif. "U.S.G.-Delta Properties" 7	Jan 1972	17 2N 3E	MD	13,000	Winters	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Anderson	7,000	50	Paleocene	Martinez	1,060		3,161	IV
B-I	7,200	50	Paleocene	Martinez	1,060	19	3,257	IV
B-II	7,300	50	Paleocene	Martinez	1,065	25	3,281	IV
B-III	7,400	95	Paleocene	Martinez	1,070	270	3,317	IV
Second Massive	8,100	15	Paleocene	Martinez	1,060	76	3,505	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
6,370,442	41,721	2,340	25	89,877,306	23,170,081	1966	39	36	2,360

SPACING ACT: Applies

BASE OF FRESH WATER: 800

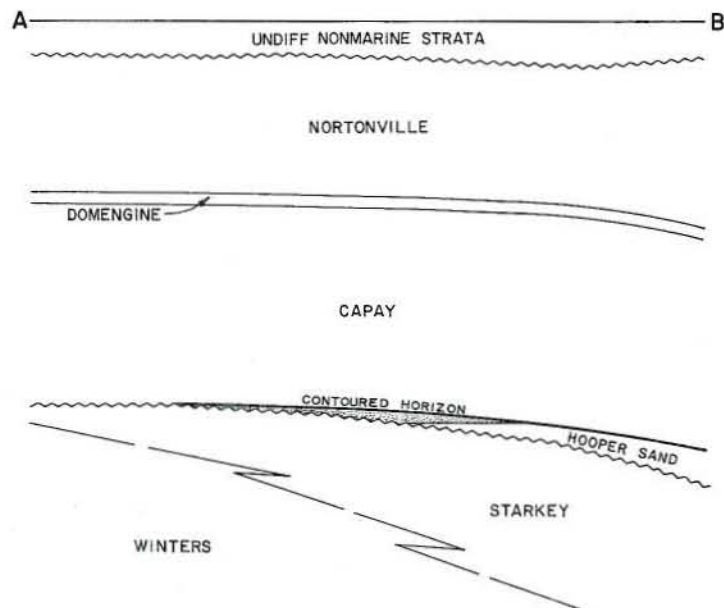
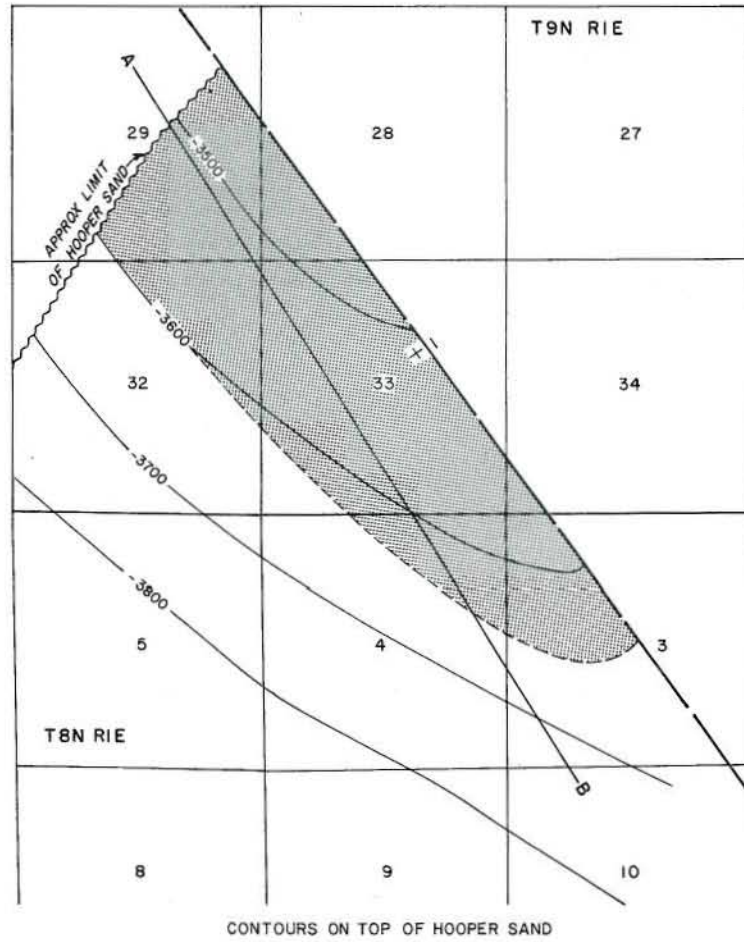
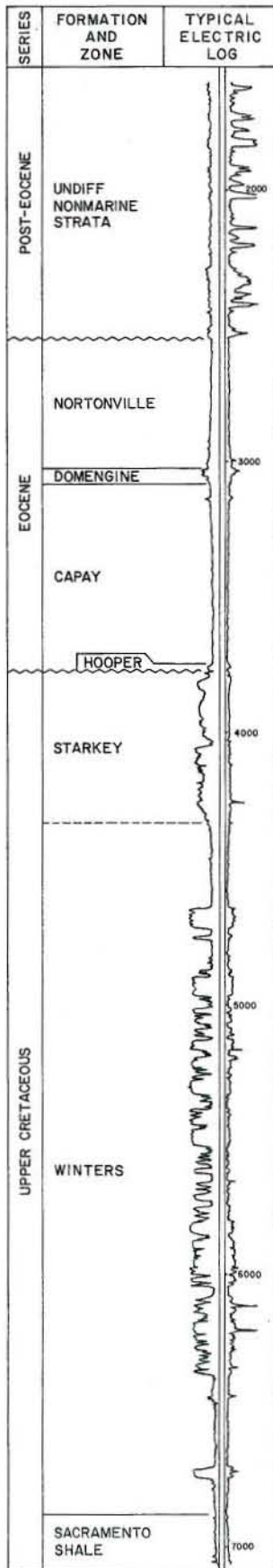
CURRENT CASING PROGRAM: 10 3/4" cem. 800; 7" or 5 1/2" cem. through gas zones.

METHOD OF WASTE DISPOSAL: Waste water is treated and flows into a local drainage system.

REMARKS: Commercial gas deliveries began in May 1965. 1972 condensate production 7,452 bbl; cumulative condensate production 182,574 with a maximum production of 60,592 bbls in 1966. Condensate is produced from all zones.

REFERENCES: Hunter, W.J., Dutch Slough Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 2 (1964).

# FAIRFIELD KNOLLS GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

FAIRFIELD KNOLLS GAS FIELD

Yolo County

LOCATION: 8 miles southwest of Woodland

TYPE OF TRAP: Sand overlap onto erosional surface on flank of faulted anticline; lenticular sands.

ELEVATION: 100

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Hooper	Standard Oil Co. of Calif. "E.E. Hooper" 1	Same as present	32 9N 1E	MD	13,000	720	1/2	Nov 1937
(Unnamed)	Supreme Oil and Gas Corp. "Corcoran" 1	Franco Western Oil Co. "Corcoran" 33-4	33 9N 1E	MD	2,930	1,900	1/4	Apr 1964

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Supreme Oil & Gas Corp. "Corcoran" 1	Franco Western Oil Co. "Corcoran" 33-4	Mar 1964	33 9N 1E	MD	7,069	Sacramento shale	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Hooper	3,625	25	Eocene	Capay	N.A.	670	1,610	IV
(Unnamed)	5,040	5	Lt Cretaceous	Winters	880 - 930	840	2,280	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	160	0	2,582,027	357,826	1951	7	4	400

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

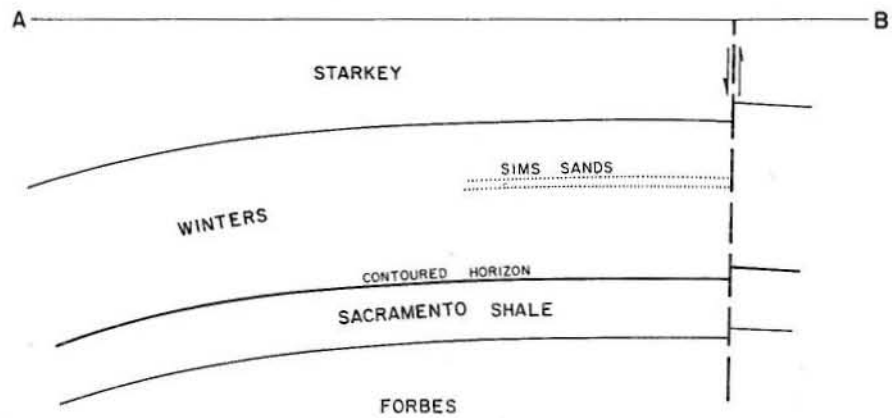
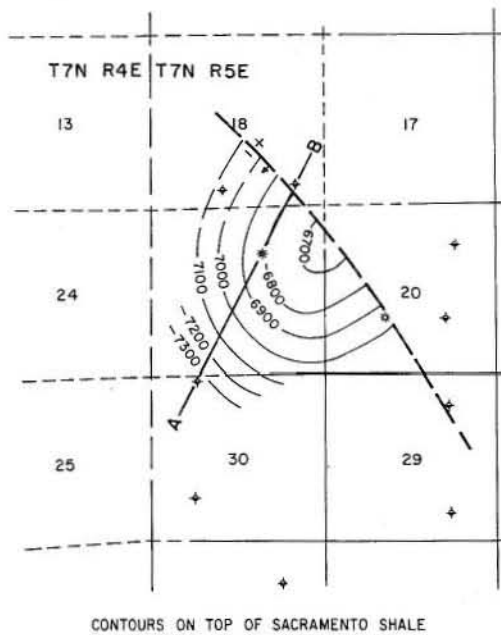
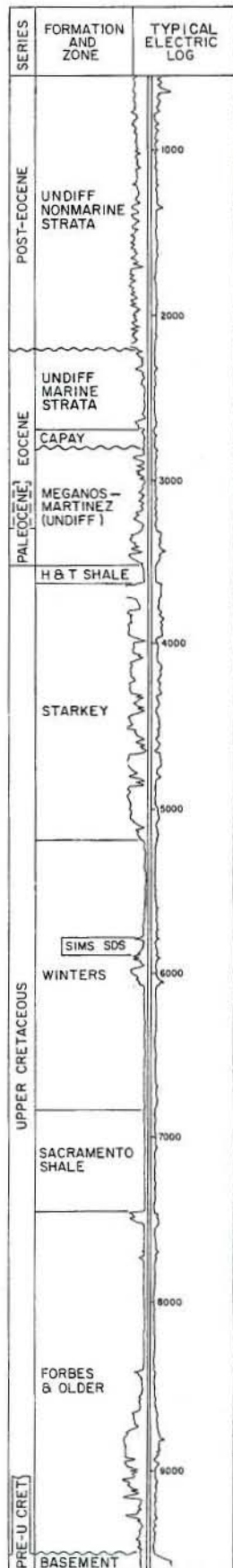
CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Formerly known as Plainfield Ridge Gas field. Commercial gas deliveries began in September 1943. The field was abandoned in 1954 and was reactivated in April 1964 when the deeper zone was discovered.

REFERENCES: Kirby, J.M., Fairfield Knolls Gas Field in Geologic Formations and Economic Development of the Oil and Gas Fields of Calif.: Calif. Div. of Mines Bull. 118, p. 599, 600 (1943).

# FREEPORT GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

FREEPORT GAS FIELD (Abandoned) (Field)  
Sacramento County (County)

LOCATION: 9 miles south of Sacramento

ELEVATION: 25

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Sims	Chevron U.S.A. Inc. "Sims Community" 1	Standard Oil Co. of Calif. "Sims Community" 1	19 7N 5E	ND	9,784	1,582	1/2	May 1952
(Unnamed)	McCulloch Oil Corp. "McCulloch-Occidental Sims et al" 1	Same	20 7N 5E	ND	17,300	1,000	1	May 1962

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Chevron U.S.A. Inc. "Sims Community" 2	Standard Oil Co. of Calif. "Sims Community" 2	Nov. 1952	18 7N 5E	MD	9,419	Basement	pre-Lt. Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Sims	5,780	20	Late Cretaceous	Winters	910	N.A.	2,710	III B 3M
(Unnamed)	8,040	50	Late Cretaceous	Guinda (?)	735	22,100	3,600	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
29,838	38	0	0	2,646,870	614,927	1953	6	2	120

SPACING ACT: Applies

BASE OF FRESH WATER: 650-1,450

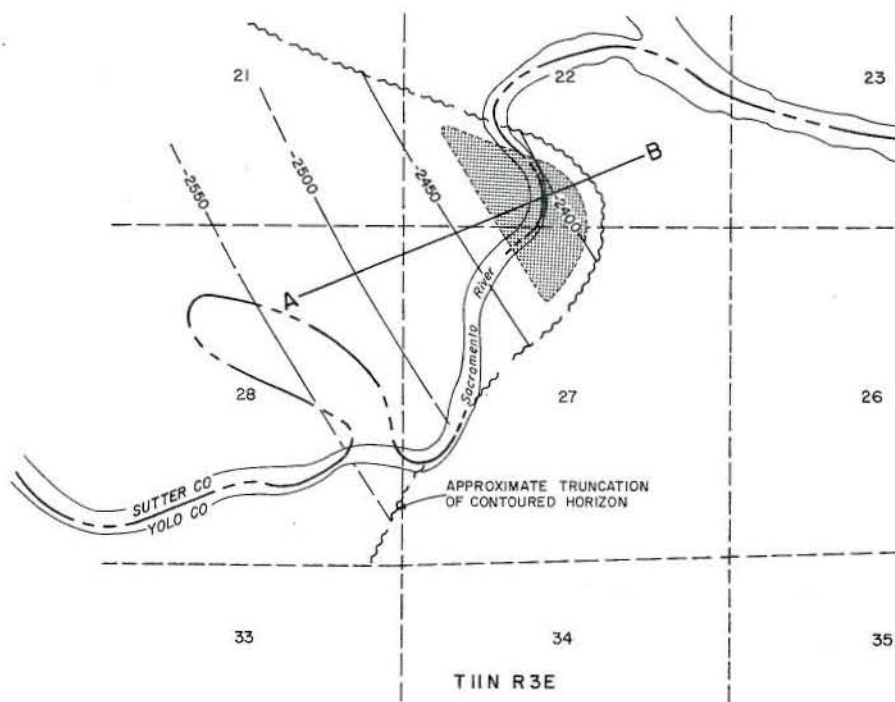
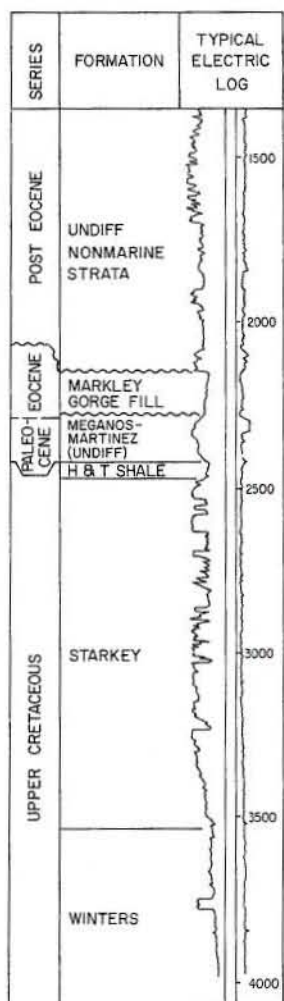
CURRENT CASING PROGRAM: 9 5/8" cem. 900; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in January 1953. The field was abandoned in 1977.

REFERENCES: None

January 1978

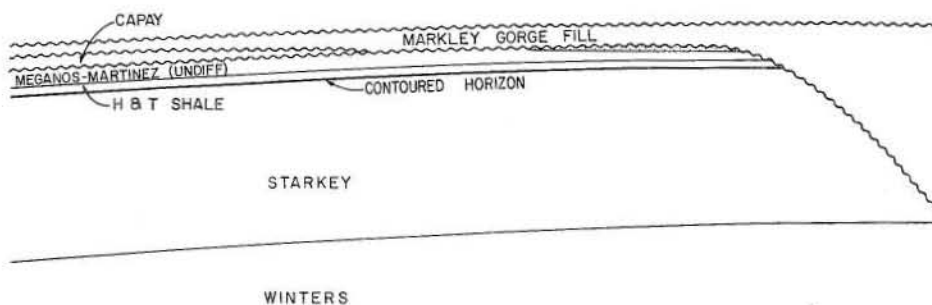
# FREMONT LANDING GAS FIELD



CONTOURS ON BASE OF H & T SHALE

A-----B

UNDIFFERENTIATED NONMARINE STRATA



# CALIFORNIA DIVISION OF OIL AND GAS

FREEMONT LANDING GAS FIELD  
(Field)  
Yolo County  
(County)

LOCATION: 10 miles northeast of Woodland  
ELEVATION: 25

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R. B. & M.	Initial production			Date of completion
				Daily pressure (Mcf)	Flow pressure (psi)	Beam size (inches)	
(Unnamed)	B. Pete Jackson "Deseret Farms" 2	Same	22 11N 3E MD	1,000	900	N.A.	Oct. 1976

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R. B. & M.	Total depth (feet)	At total depth
Centura Inc. "Deseret Farms" 3	Same	Nov. 1977	27 11N 3E MD	4,500	Strata Winters Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,320	25	Eocene-Paleocene	Meganos-Martinez	N.A.	N.A.	1,000	III B 2M

## PRODUCTION DATA

1976 Net gas (Mcf)	1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
	Water (bbl)					(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	0	See Remarks	--	2	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400

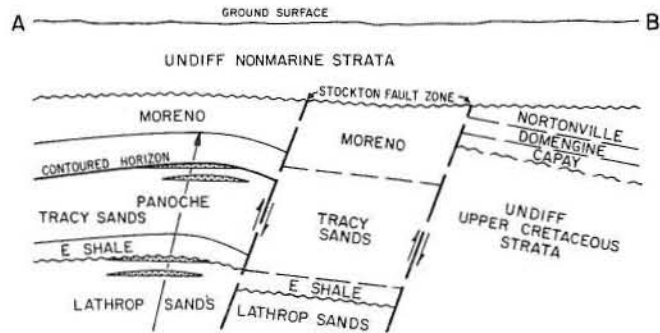
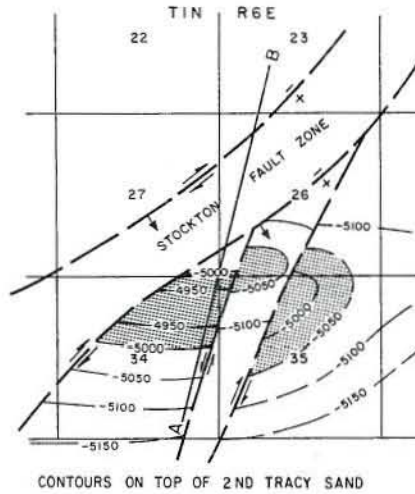
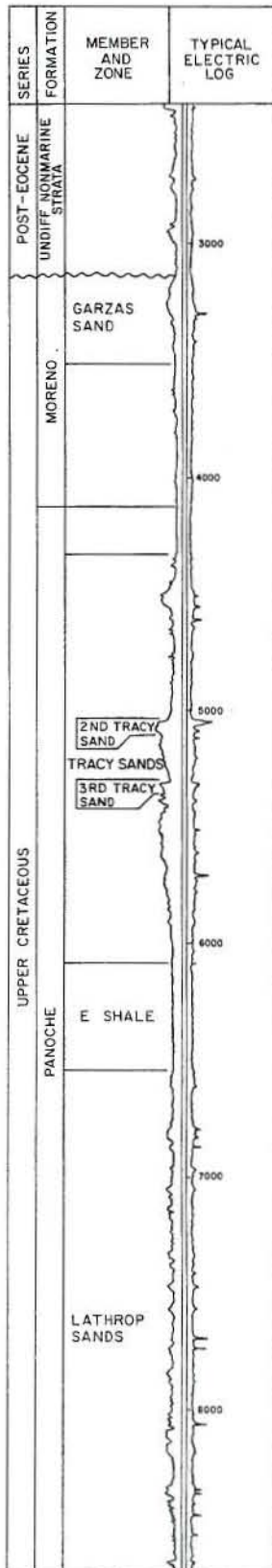
CURRENT CASING PROGRAM: 8 5/8" cem. 500; 4 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries have not yet begun.

REFERENCES: None

January 1978

# FRENCH CAMP GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

FRENCH CAMP GAS FIELD

San Joaquin County

LOCATION: 4 miles south of Stockton

TYPE OF TRAP: Faulted nose; lenticular sands

ELEVATION: 25

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
2nd Tracy	Laymac Corp. "Reynolds & Carver-West" 1	Ferguson & Bosworth "Reynolds & Carver-West" 1	26 1N 6E	MD	*7,550	1,250	1/2	Mar 1967
3rd Tracy	Same as above	Same as above	26 1N 6E	MD	*	*	*	Mar 1967
Lathrop	Laymac Corp. "Reynolds & Carver-Dulay" 1	Ferguson & Bosworth "Reynolds & Carver-Dulay" 1	26 1N 6E	MD	8,300	1,300	1/2	Oct 1967

Remarks: \* Commingled production from the 2nd and 3rd Tracy zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Laymac Corp. "Reynolds & Carver-West" 1	Ferguson & Bosworth "Reynolds & Carver-West" 1	Feb 1967	26 1N 6E	MD	8,750	Lathrop sands	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
2nd Tracy	5,000	30	Lt Cretaceous	Panoche	760	800	2,320	IV
3rd Tracy	5,308	17	Lt Cretaceous	Panoche	770	800	2,420	IV
Lathrop	6,925	45	Lt Cretaceous	Panoche	830	1,410	4,990	V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
354,146	10,375	400	3	3,274,878	2,101,502	1970	6	3	400

SPACING ACT: Applies

BASE OF FRESH WATER: 100

CURRENT CASING PROGRAM: 9 5/8" cem. 900; 5 1/2" cem. through zones.

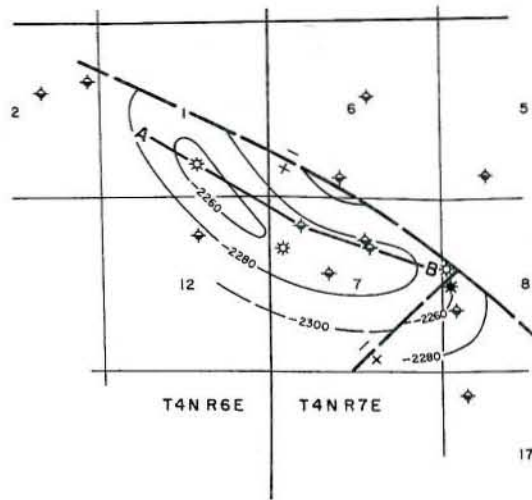
METHOD OF WASTE DISPOSAL: Disposal into sumps.

REMARKS: Commercial gas deliveries began in October 1969.

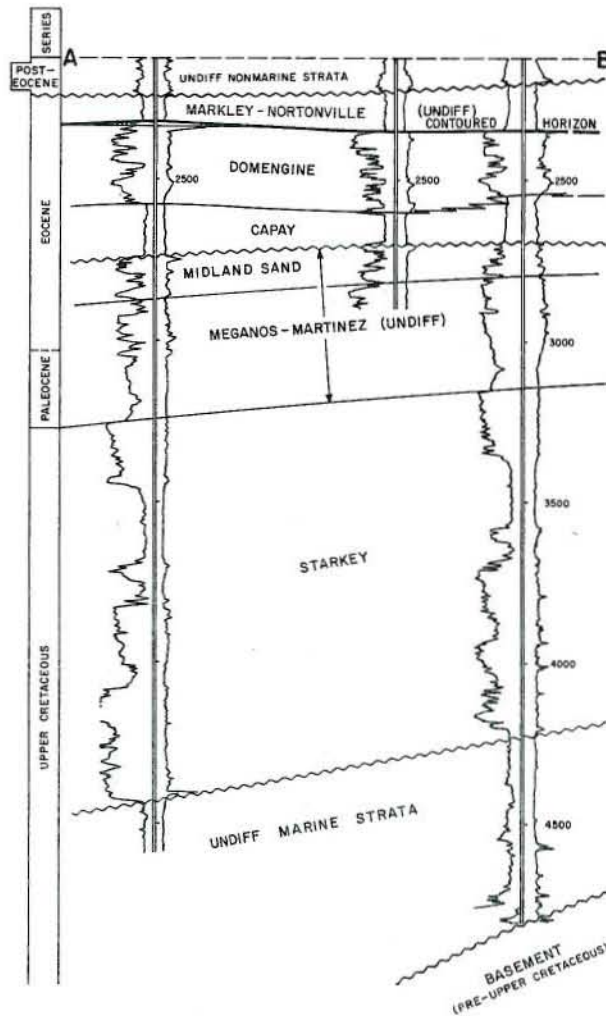
REFERENCES:



# GALT GAS FIELD



CONTOURS ON TOP OF DOMENGINE



# CALIFORNIA DIVISION OF OIL AND GAS

GALT GAS FIELD  
San Joaquin County

LOCATION: 5 1/2 miles north of Lodi

TYPE OF TRAP: Faulted anticline

ELEVATION: 73

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Domengine (unnamed)	Amerada Hess Corp., Opr. "Community" 1-1 Capitol Oil Corp. "Macrate-Dresden" 1	Bankline Oil Co. "Community 1" 1 Same as present	1 4N 6E	MD	7,765	692	3/4	Apr 1943
			8 4N 7E	MD	1,295	926	1/4	Nov 1970

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Amerada Hess Corp., Opr. "Community" 1-1	Bankline Oil Co. "Community 1" 1	Mar 1943	1 4N 6E	MD	5,765	Basement (gneiss)	pre-Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Domengine (unnamed)	2,330	15	Eocene	Domengine	680	230	1,004	IV
	2,433	5	Eocene	Domengine	752	N.A.	936	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	50	0	3,061,115	261,063	1956	13	4	140

SPACING ACT: Applies

BASE OF FRESH WATER: 1,850

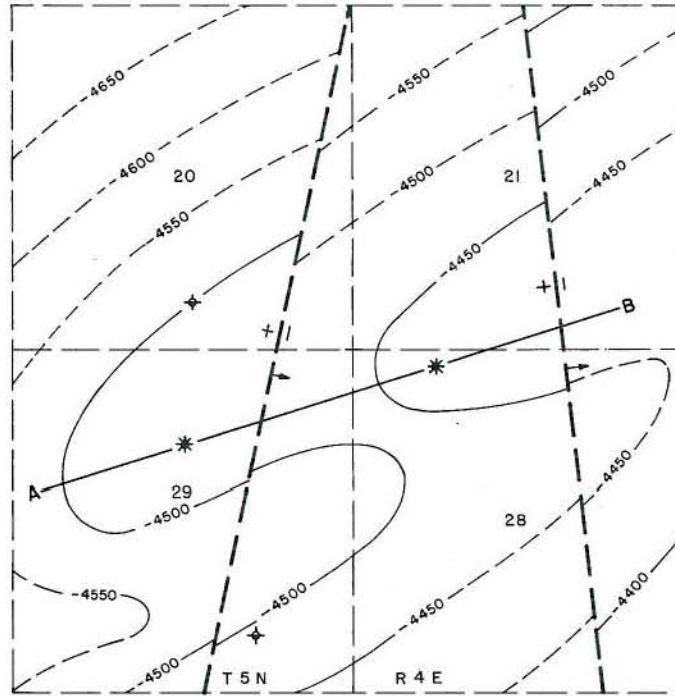
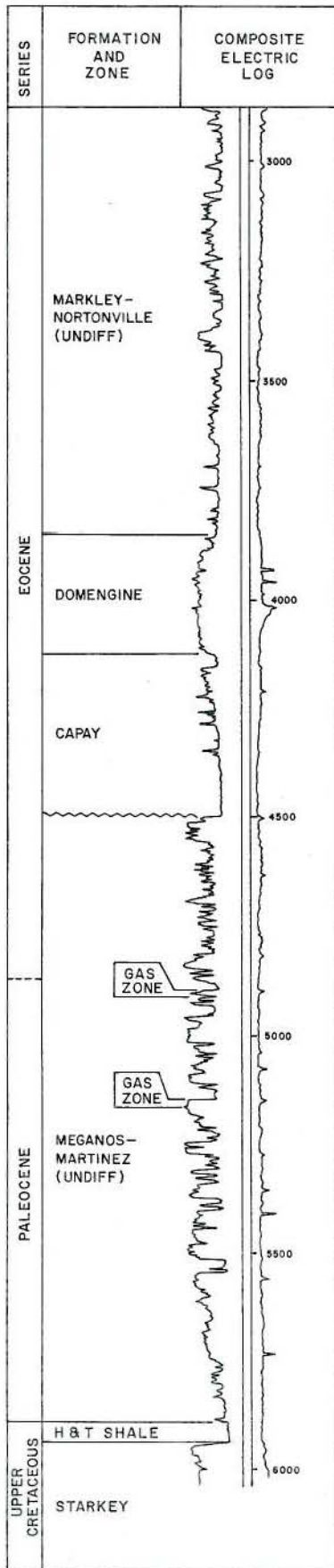
CURRENT CASING PROGRAM: 7" to 9 5/8" cem 500; 4 1/2" or 5 1/2" cem through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

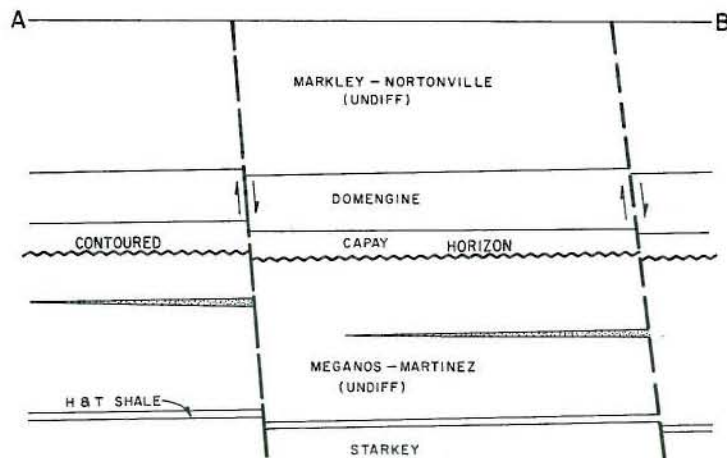
REMARKS: Commercial gas deliveries began in October 1946.

REFERENCES: Huey, W. F., Galt Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).

# GRAND ISLAND GAS FIELD



CONTOURS ON BASE OF CAPAY



# CALIFORNIA DIVISION OF OIL AND GAS

GRAND ISLAND GAS FIELD  
Sacramento County

LOCATION: 7 miles north of Isleton

TYPE OF TRAP: Sand pinchouts on faulted nose

ELEVATION: minus 8

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R. B & M	Initial production			Date of completion
				Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed)	Amerada Hess Corp. "Garin GU" 1	Amerada Petroleum Corp. "Garin Gas Unit" 1	29 SN 4E MD	2,780	1,730	1/4	Aug 1960
(Unnamed)	Amerada Hess Corp. "C.W. Clarke Co." 1	Amerada Petroleum Corp. "Clarke Co." 1	28 SN 4E MD	1,300	1,850	3/16	Nov 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R. B & M	Depth (feet)	At total depth
Amerada Hess Corp. "Garin GU" 1	Amerada Petroleum Corp. "Garin Gas Unit" 1	Jul 1960	29 SN 4E MD	6,565	Starkey
					Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (bbbl)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	4,672	5	Eo - Paleo	Meganos-Martinez	975	580	2,010	IV
(Unnamed)	5,071	5	Eo - Paleo	Meganos-Martinez	975	670	2,220	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972		1972		Peak gas production		Total number of wells		Maximum proved acreage	
Net gas (Mcf)	Water (bbl)	Proved acreage	Maximum number producing wells	Cumulative gas production (Mcf)	Year	(Mcf)	1969	Drilled	Completed	1969	160
0	0	160	0	1,692	1969	1,028		4	2		

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

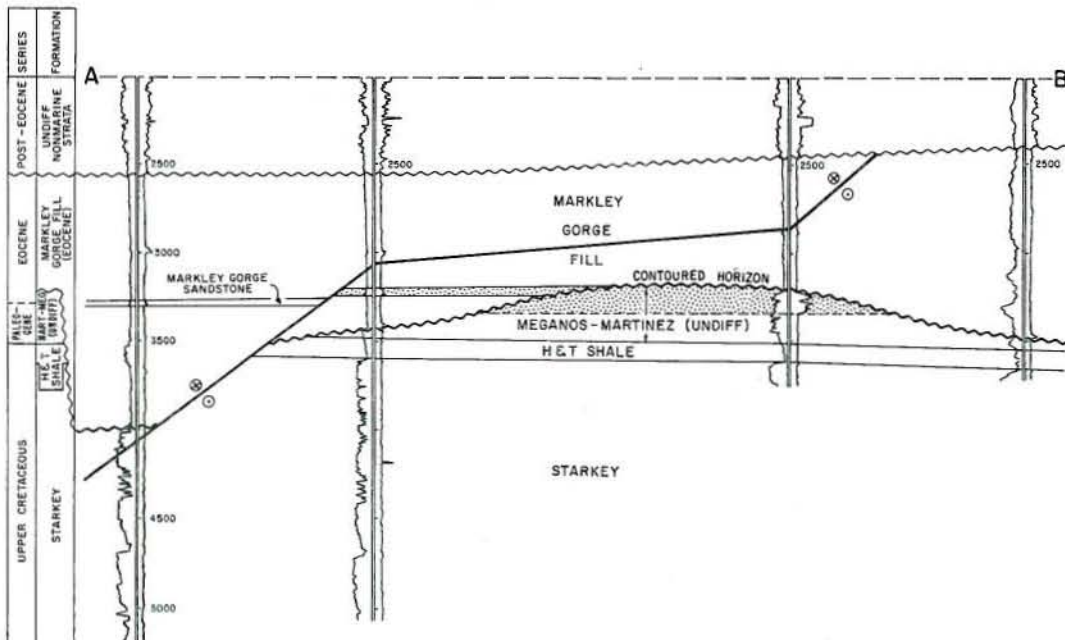
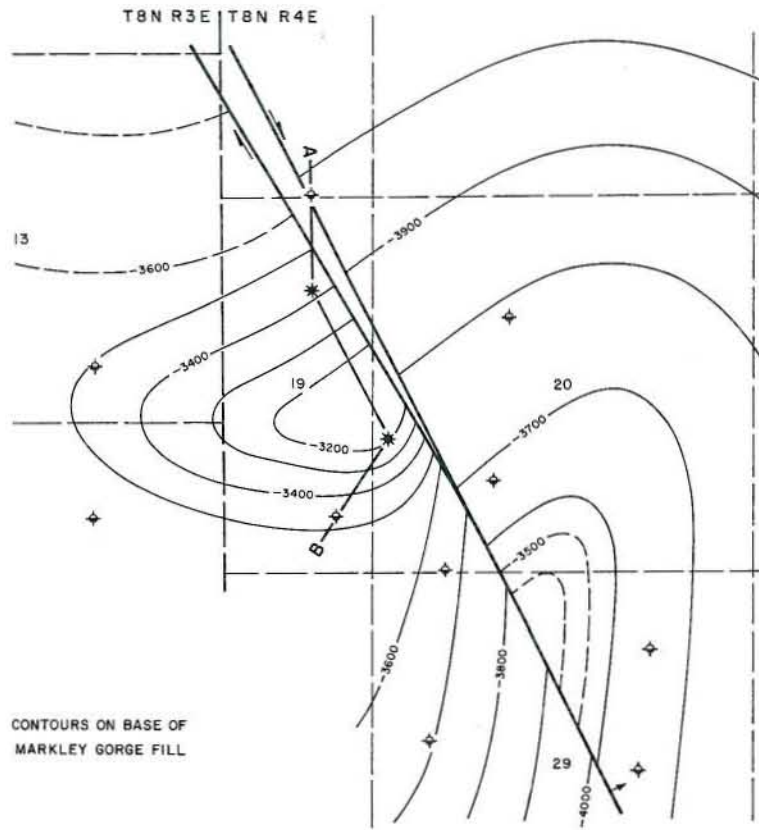
CURRENT CASING PROGRAM: 11 3/4" to 8 5/8" cem. 600; 7" or 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Wells are on an island and are not connected to a sales line. All gas produced has been blown to air during tests.

REFERENCES:

# GREENS LAKE GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

GREENS LAKE GAS FIELD

Yolo County

LOCATION: 4 miles southwest of Sacramento

TYPE OF TRAP: Faulted erosional remnant; sand onlap

ELEVATION: 10

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Markley Gorge sandstone	Shoshone Oil Co. "Greens Lake Unit 1" 1	The Superior Oil Co. "Greens Lake Unit" 1-1	19 8N 4E	MD	1,097	760	1/4	Jun 1969
Meganos-Martinez	Shoshone Oil Co. "Greens Lake Unit 1" 3	The Superior Oil Co. "Greens Lake Unit" 1-3	20 8N 4E	MD	6,959	1,202	1/2	Apr 1970

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shoshone Oil Co. "Greens Lake Unit 1" 2	The Superior Oil Co. "Greens Lake Unit" 1-2	Aug 1969	19 8N 4E	MD	5,200	Starkey	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Markley Gorge sandstone	3,200	40	Eocene	Markley Gorge fill	820	N.A.	1,440	IV
Meganos-Martinez	3,200	110	Eo-Paleocene	Meganos-Martinez	840	N.A.	1,460	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	220	0	0	0	--	11	2	220

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

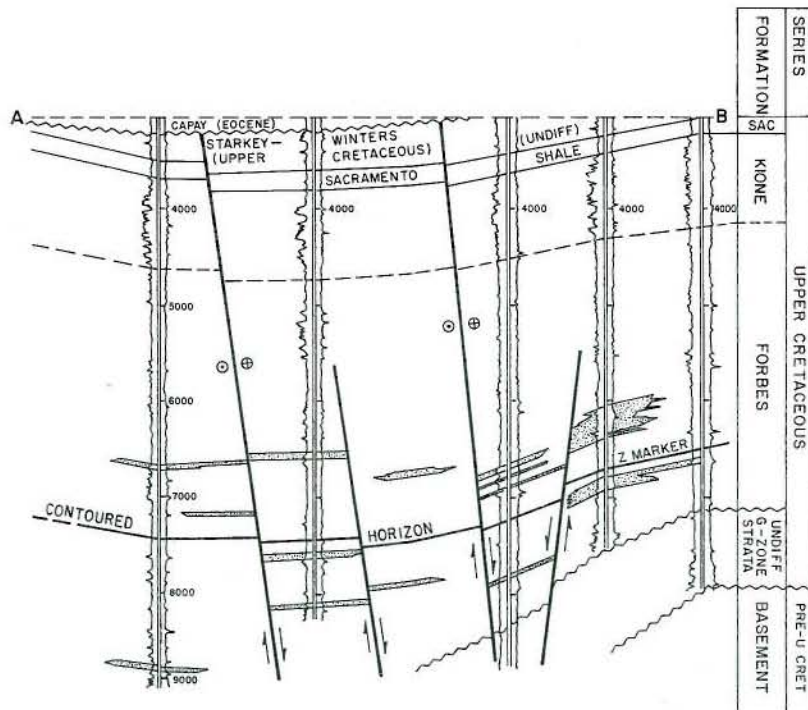
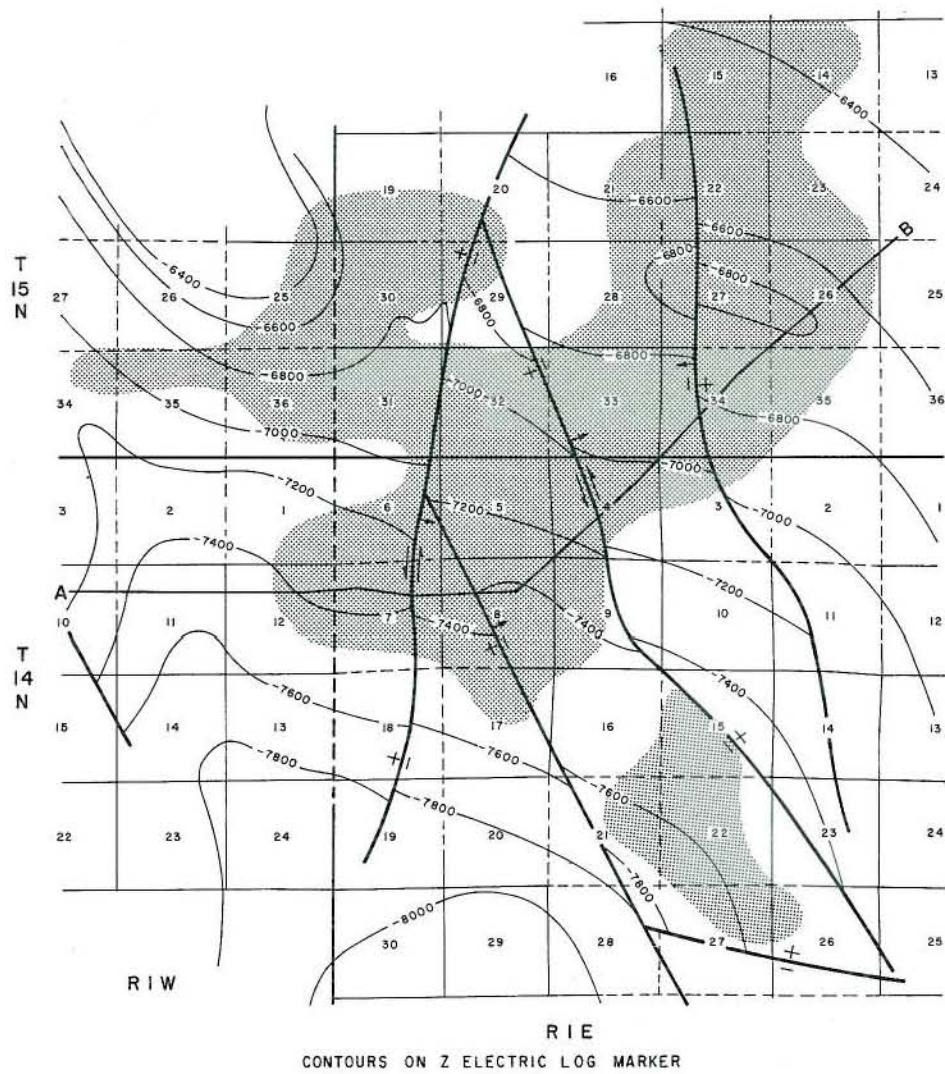
CURRENT CASING PROGRAM: 7" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Wells are shut in pending installation of pipeline.

REFERENCES: Curtin, R.F., Greens Lake Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 58, No. 1 (1972).

# GRIMES GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

GRIMES GAS FIELD

Colusa and Sutter Counties

LOCATION: 11 miles west of Yuba City

TYPE OF TRAP: Lenticular sands on faulted homocline

ELEVATION: 40

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Sand stringers)	Mobil Oil Corp. "Grimes Operating Unit 7" 2	Cameron Oil Co. "Cameron-Armstrong" 1	7 14N 1E	MD	2,820	1,040	3/8	Jan 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Grimes Operating Unit 7" 3	Cameron Oil Co. "Grimes Operating Unit 7" 3	Mar 1962	7 14N 1E	MD	9,425	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Sand stringers)	4,900 - 8,800	1 - 50 per stringer	Lt Cretaceous	Forbes	975 - 1,000	400 - 1,300	2,780 - 6,000	IV (V below 7,000)

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
23,204,298	81,116	12,050	77	285,454,186	33,023,637	1966	125	93	13,670

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100

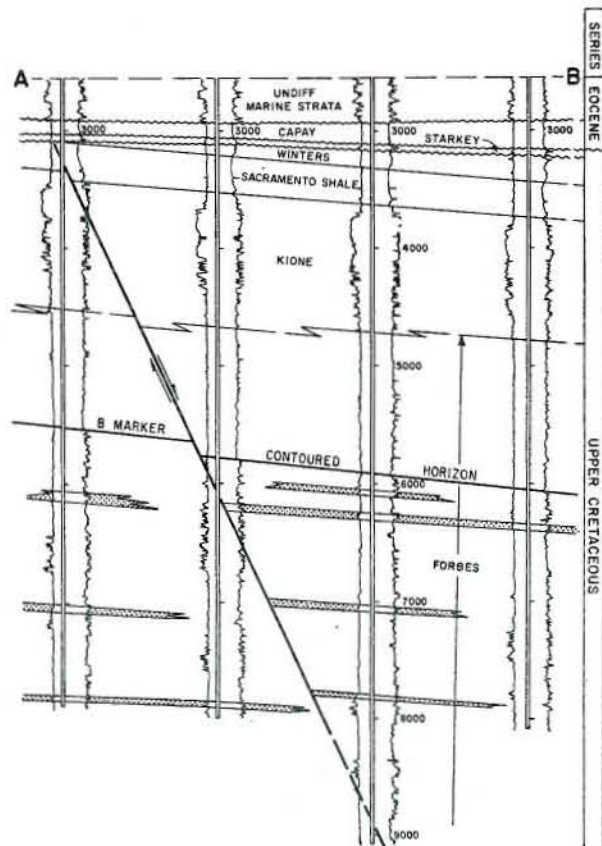
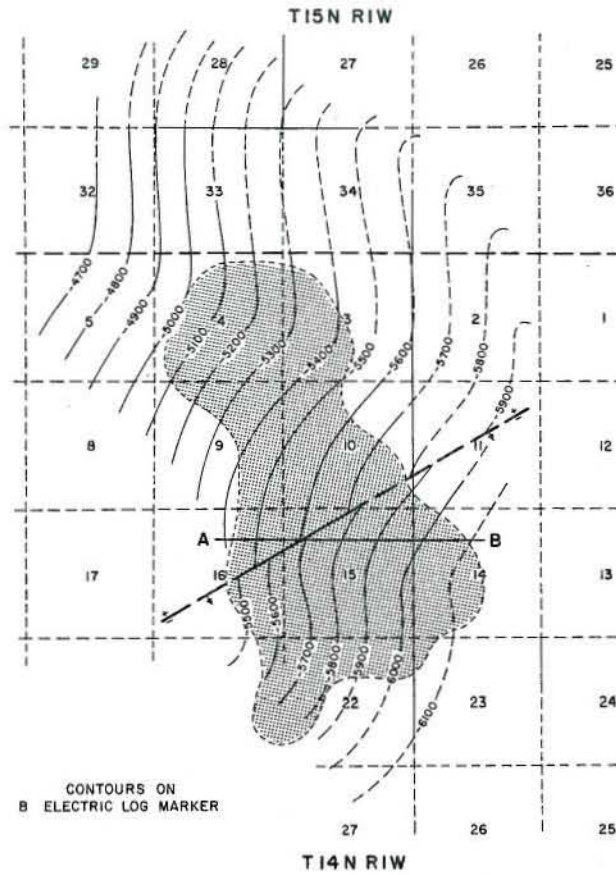
CURRENT CASING PROGRAM: 13 3/8" cem. 300; 9 5/8" cem. 3,000 and across base of fresh-water sands; 5 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: In 1972, 54,572 bbl. of waste water was injected into two disposal wells; disposal into sumps.

REMARKS: Commercial gas deliveries began in December 1961. Abnormally high pressure gradient at depth. Many of the gas-sand stringers have been given local names by operators.

REFERENCES:

# WEST GRIMES GAS FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

GRIMES, WEST, GAS FIELD

Colusa County

LOCATION: 29 miles northwest of Woodland

TYPE OF TRAP: Lenticular sands on faulted homocline

ELEVATION: 55

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed sand stringers)	Occidental Petroleum Corp. "Sachreiter" 1	Same as present	4 14N 1W	MD	14,730	2,300	3/4	Dec 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. "Balsdon" 2	Tidewater Oil Co. "Balsdon" 2	Sep 1962	22 14N 1W	MD	9,585	Forbes	Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	6,050 - 7,850	5 - 35 per stringer	Lt Cretaceous	Forbes	970 - 1,010	945 - 1,480	3,055 - 5,425	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,561,325	1,753	2,560	16	35,890,226	5,921,389	1964	26	20	3,200

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400 - 2,450

CURRENT CASING PROGRAM: 9 5/8" cem. 1,800 - 2,900; 7" to 3 1/2" cem. through zones.

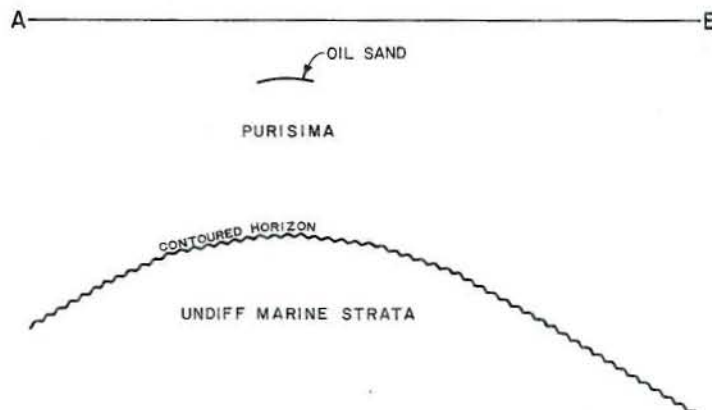
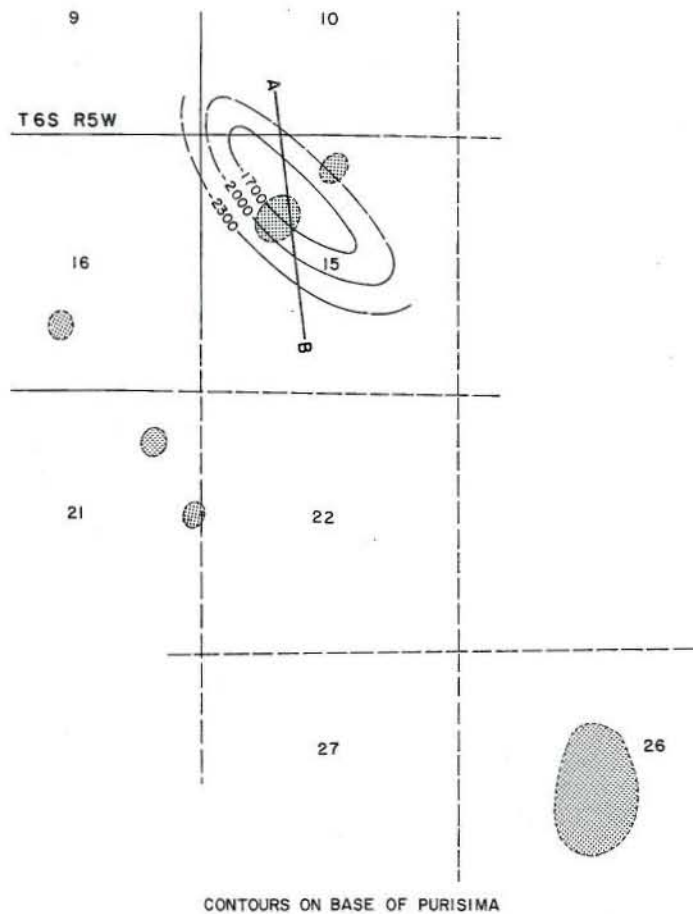
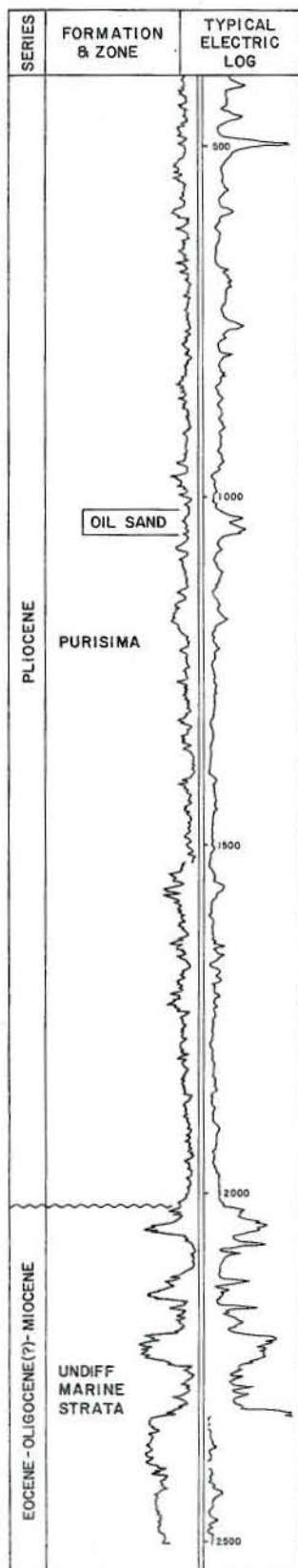
METHOD OF WASTE DISPOSAL: Waste water is injected into water disposal well within the field.

REMARKS: Commercial gas deliveries began in December 1961.

REFERENCES: Beecroft, G.W., West Grimes Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).



# HALF MOON BAY OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

HALF MOON BAY OIL FIELD

San Mateo County

LOCATION: 24 miles south of San Francisco

TYPE OF TRAP: Anticline; lenticular sands; possible fault traps

ELEVATION: 200 - 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
(Unnamed sand beds)	(Probably one of J. Berger's wells)	Same as present	15 6S SW	MD	N.A.	N.A.	1890

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "Cowell" 1	Wilshire Oil Co., Inc. "Cowell" 1	Aug 1937	21 6S SW	MD	7,982	Purisima (?)	Plio (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
(Unnamed sand beds)	800 - 3,100	N.A.	Pliocene	Purisima	45	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	5	0	42,043	20,000	N.A.	N.A.	*40	*14	155

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Does not apply

BASE OF FRESH WATER: 100

CURRENT CASING PROGRAM: 9 5/8" cem. 300; 5 1/2" combination string landed through zone and cem. through ports above zone.

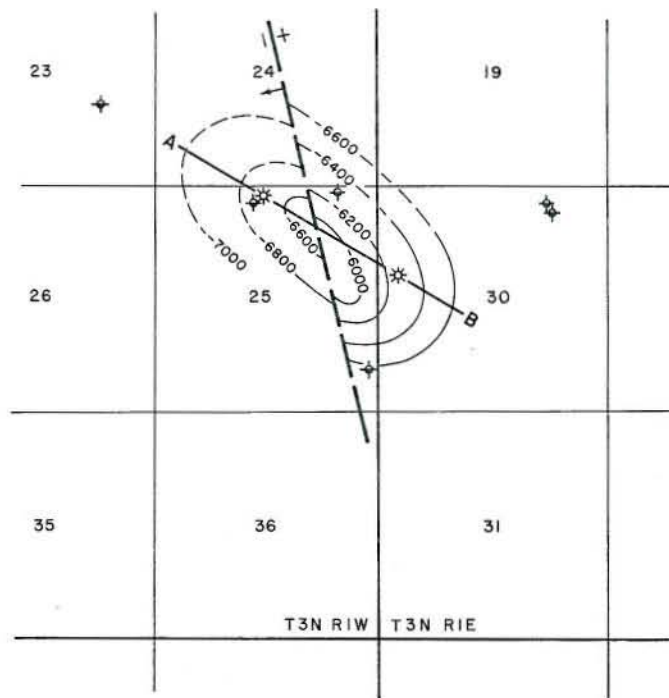
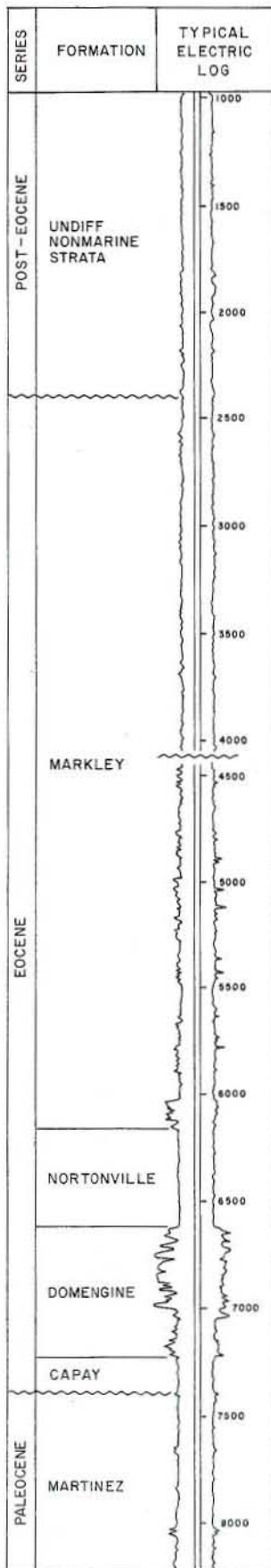
METHOD OF WASTE DISPOSAL:

REMARKS: \* Some old wells may not have been counted.

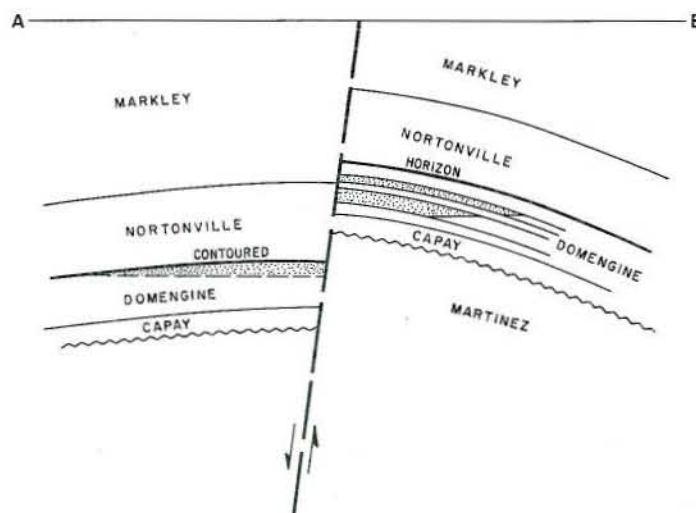
REFERENCES: Crandall, R.R., Half Moon Bay District in Geologic Formations and Economic Development of the Oil and Gas Fields of Calif.: Calif. Div. of Mines Bull. 118, p. 478-480 (1943).

# HONKER GAS FIELD

(Abandoned)



CONTOURS ON TOP OF DOMENGINE



# CALIFORNIA DIVISION OF OIL AND GAS

HONKER GAS FIELD (Abandoned)

Solano County

LOCATION: 3 miles northwest of Pittsburg

TYPE OF TRAP: Faulted anticline

ELEVATION: 15

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Beam size (in.)	
Domengine	Standard Oil Co. of Calif. "Honker Community" 1-A	Same as present	25 3N 1W	MD	3,200	2,229	1 1/4	Apr 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "A.O. Stewart" 1	Same	Aug 1943	25 3N 1W	MD	8,728	Undiff. marine strata	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Domengine	6,500	180	Eocene	Domengine	1,040	720	3,200	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	300,788	277,436	1947	5	2	20

SPACING ACT: Applies

BASE OF FRESH WATER: 150

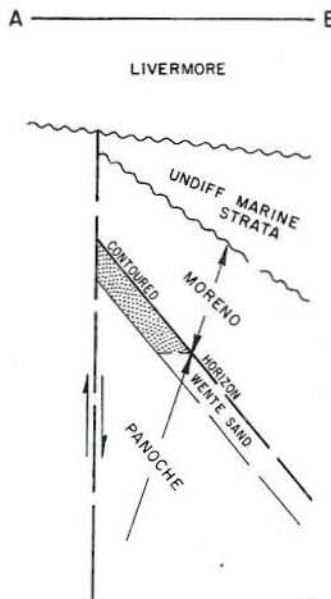
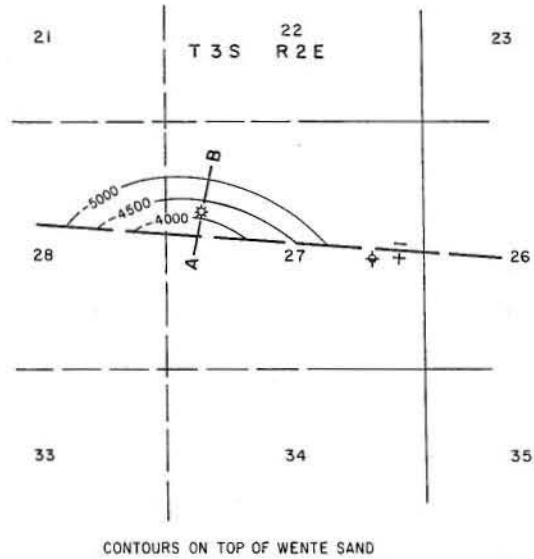
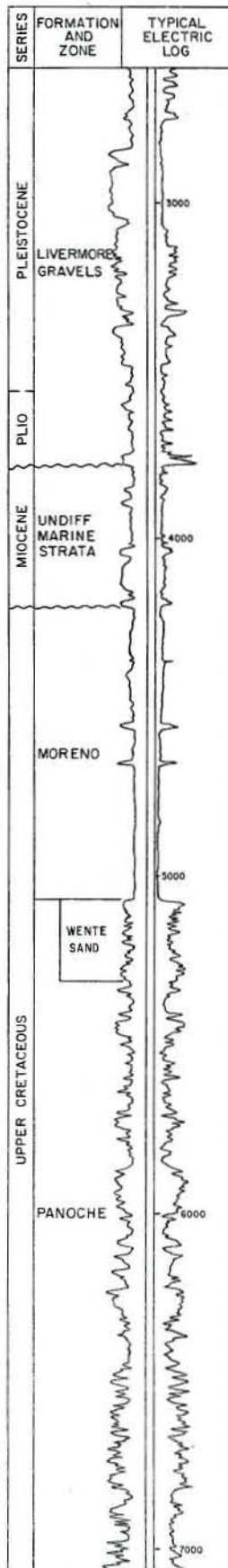
CURRENT CASING PROGRAM: 11 3/4" cem. 1,000; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in January 1947. The field was abandoned in November 1949.

REFERENCES:

# HOSPITAL NOSE GAS FIELD (Abandoned)





# CALIFORNIA DIVISION OF OIL AND GAS

HOSPITAL NOSE GAS FIELD (Abandoned) (Field)  
Alameda County (County)

LOCATION: 3 miles southeast of Livermore

ELEVATION: 895

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Wente	Texaco Inc. "Hancock-Signal (NCT-1) Wente" 1	The Texas Co. "Hancock-Signal (NCT-1) Wente" 1	27 3S 2E	MD	150	500	1/8	Apr. 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Feb. 1952	27 3S 2E	MD	7,062	Panoche	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Wente	5,070	110	Late Cretaceous	Panoche	1,285	514	1,610	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	14,183	9,424	1954	2	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,500

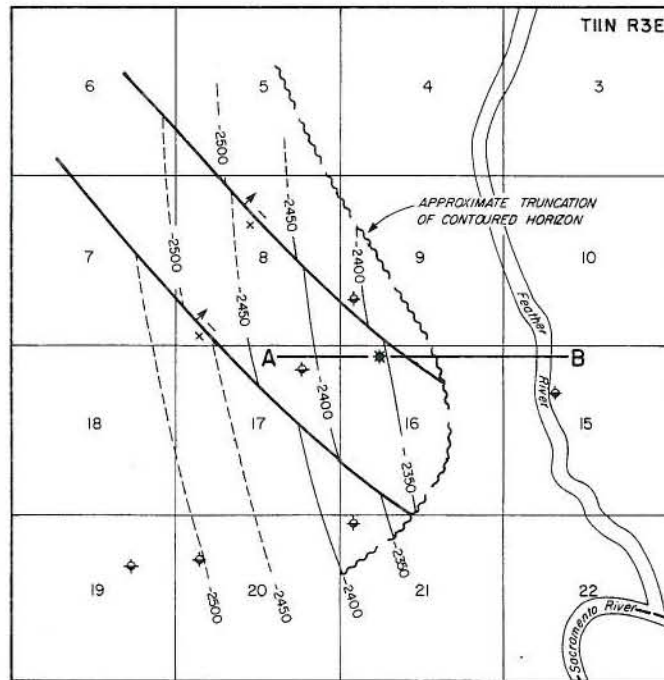
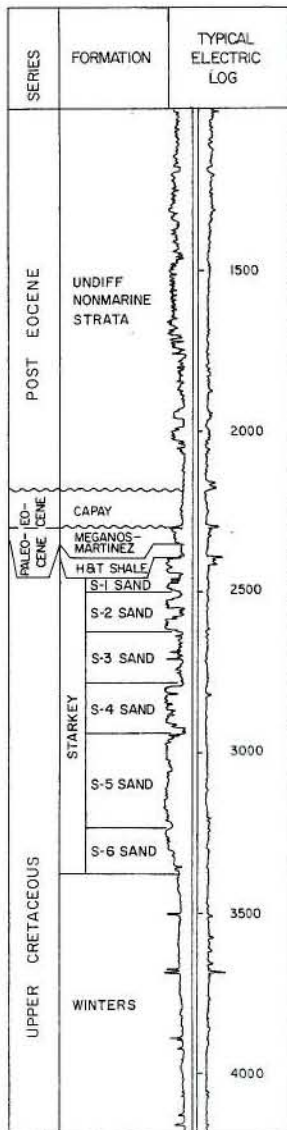
CURRENT CASING PROGRAM: 11 3/4" cem. 500; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in November 1952. The field was abandoned in June 1956.

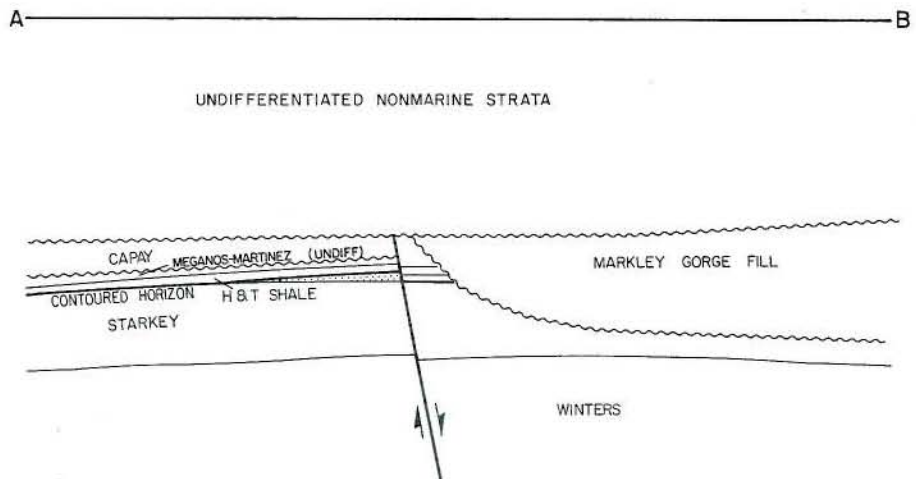
REFERENCES: None

January 1978

# KARNAK GAS FIELD



CONTOURS ON TOP OF STARKEY



# CALIFORNIA DIVISION OF OIL AND GAS

KARNAK GAS FIELD (Field)  
Sutter County (County)

LOCATION: 3 miles east of Knights Landing

ELEVATION: 25

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Boon size (inches)	
S-1	The Dow Chemical Co. "Anderson Farms" 1	Same	16 11N 3E	MD	1,400	340	16/64	Aug. 1976

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
The Dow Chemical Co. "Anderson Farms" 1	Same	July 1976	16 11N 3E	MD	4,232	Winters	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
S-1	2,400	15	Late Cretaceous	Starkey	831	N.A.	1,060	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1972 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	See Remarks	--	2	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,000

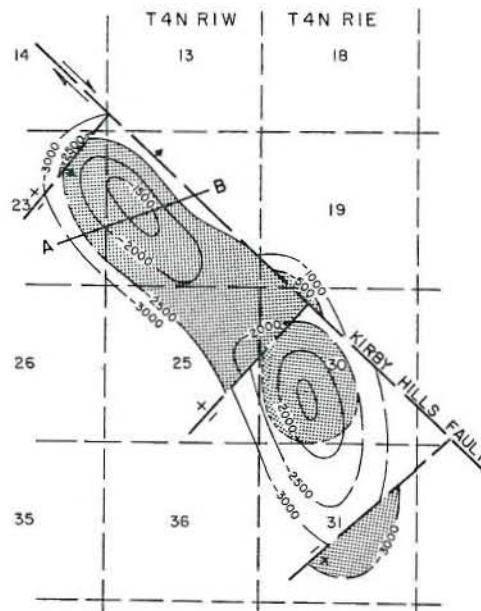
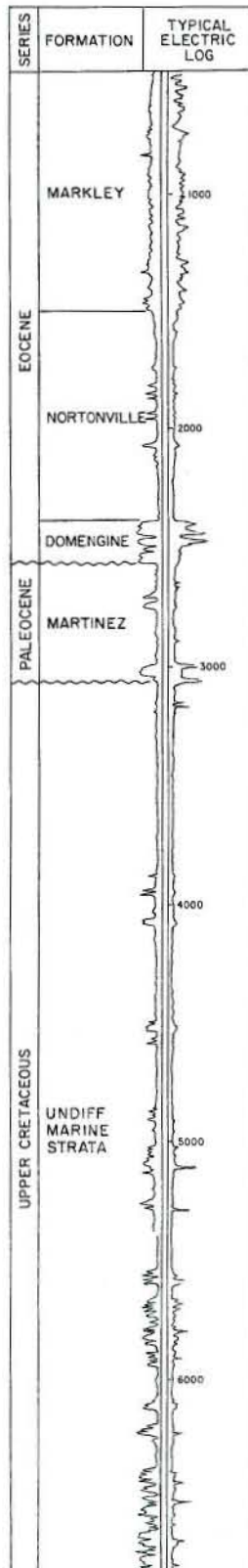
CURRENT CASING PROGRAM: 7" cem. 500; 4 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries have not yet begun.

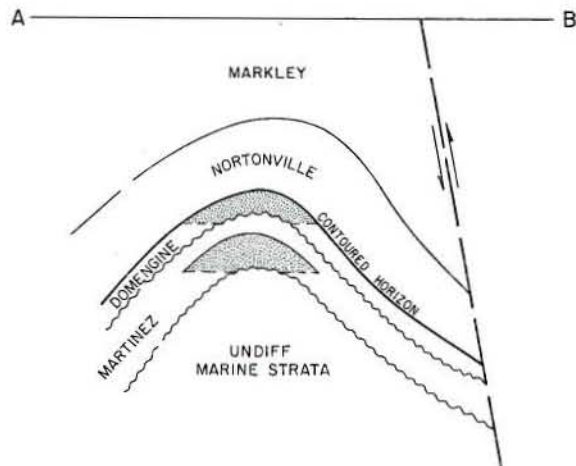
REFERENCES: None

January 1978

# KIRBY HILL GAS FIELD



CONTOURS ON TOP OF DOMENGINE



# CALIFORNIA DIVISION OF OIL AND GAS

KIRBY HILL GAS FIELD

Solano County

LOCATION: 8 miles southeast of Fairfield

TYPE OF TRAP: Faulted anticline

ELEVATION: 2 - 310

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Markley	Standard Oil Co. of Calif. "Kirby Community" 10	Same as present	24 4N 1W	MD	238	95	5/16	Jul 1972
Nortonville	Sinco Oil Corp. "Wagenet" 1	Shell Oil Co. "Wagenet" 1	24 4N 1W	MD	1,090	693	1/4	Aug 1947
Domengine	Sinco Oil Corp. "Lambie" 1-A	Shell Oil Co. "Lambie" 1-A	25 4N 1W	MD	3,980	650	1/2	Jan 1945
Martinez	Sinco Oil Corp. "Lambie" 2	Shell Oil Co. "Lambie" 2	30 4N 1E	MD	14,400	1,641	5/8	Mar 1945
(Unnamed)	Sinco Oil Corp. "Lambie" 5	Shell Oil Co. "Lambie" 5	25 4N 1W	MD	4,720	807	1/2	Feb 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Sinco Oil Corp. "Lambie" 6	Shell Oil Co. "Lambie" 6	Jun 1947	30 4N 1E	MD	7,897	Undiff. marine	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Markley	1,100	30	Eocene	Markley	990	480	250	IV
Nortonville	1,250 - 2,250	35	Eocene	Nortonville	985	115 - 825	1,160	IV
Domengine	1,550 - 2,850	130	Eocene	Domengine	995	55 - 980	1,195	IV
Martinez	2,850 - 5,400	150	Paleocene	Martinez	990	450 - 860	2,205	IV
(Unnamed)	5,425	40	Late Cret	Undiff. marine strata	980	250 - 400	3,915	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
462,175	2,103	730	6	52,239,635	3,715,880	1949	27	15	830

SPACING ACT: Applies

BASE OF FRESH WATER: 250 - 1,800

CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zone and across base of fresh-water sands.

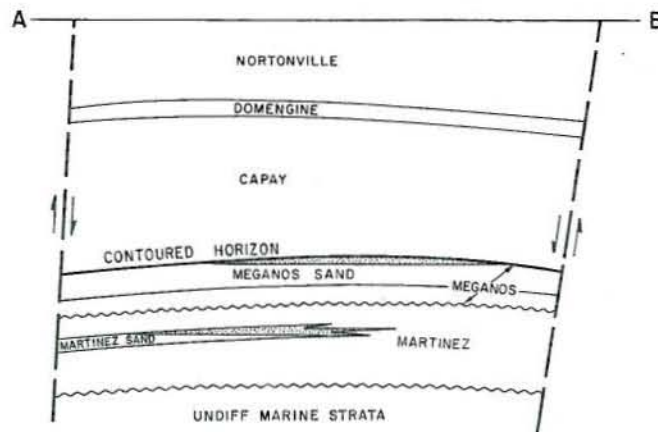
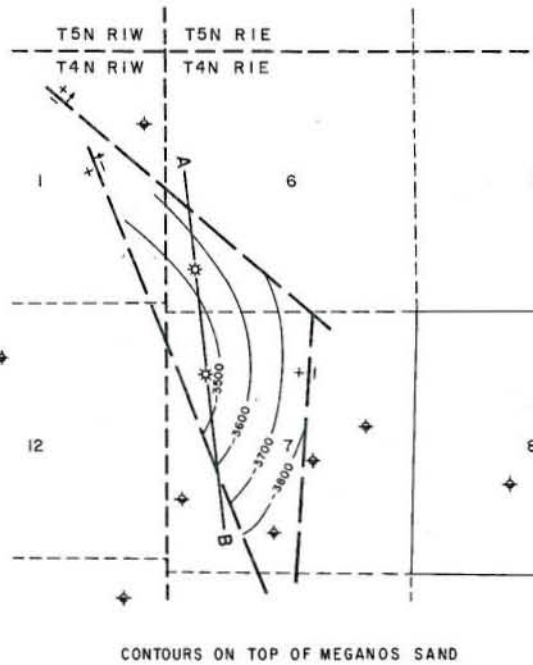
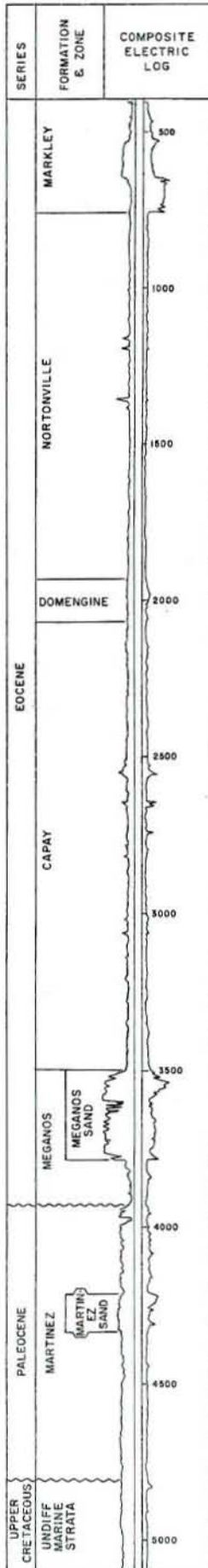
METHOD OF WASTE DISPOSAL: Surface disposal in sumps at the well sites.

REMARKS: Abnormally high pressures were encountered at depth. Commercial gas deliveries began in November 1946.

REFERENCES: Frame, R.G., Preliminary Report on Kirby Hill Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 35, No. 1 (1949).



# NORTH KIRBY HILL GAS FIELD (Abandoned)



# CALIFORNIA DIVISION OF OIL AND GAS

KIRBY HILL, NORTH, GAS FIELD (Abandoned)

Solano County

LOCATION: 7 miles southeast of Fairfield

TYPE OF TRAP: Faulted nose; sand pinchout

ELEVATION: 16

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Meganos	Longden Petroleum Co. "Unit B" 1	Shell Oil Co. "Unit B" 1	7 4N 1E	MD	5,000	385	3/4	Jul 1953
Martinez	Longden Petroleum Co. "Unit A" 1	Shell Oil Co. "Unit A" 1	6 4N 1E	MD	4,640	1,420	3/8	Feb 1954

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Stewart" 1	Same	May 1961	7 4N 1E	MD	9,667	F Zone (Goudkoff)	late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Meganos	3,510	40	Eocene	Meganos	980	320	1,695	IV
Martinez	4,260	20	Paleocene	Martinez	1,025	970 - 1,400	1,650	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	187,461	184,294	1956	6	2	100

SPACING ACT: Applies

BASE OF FRESH WATER: None

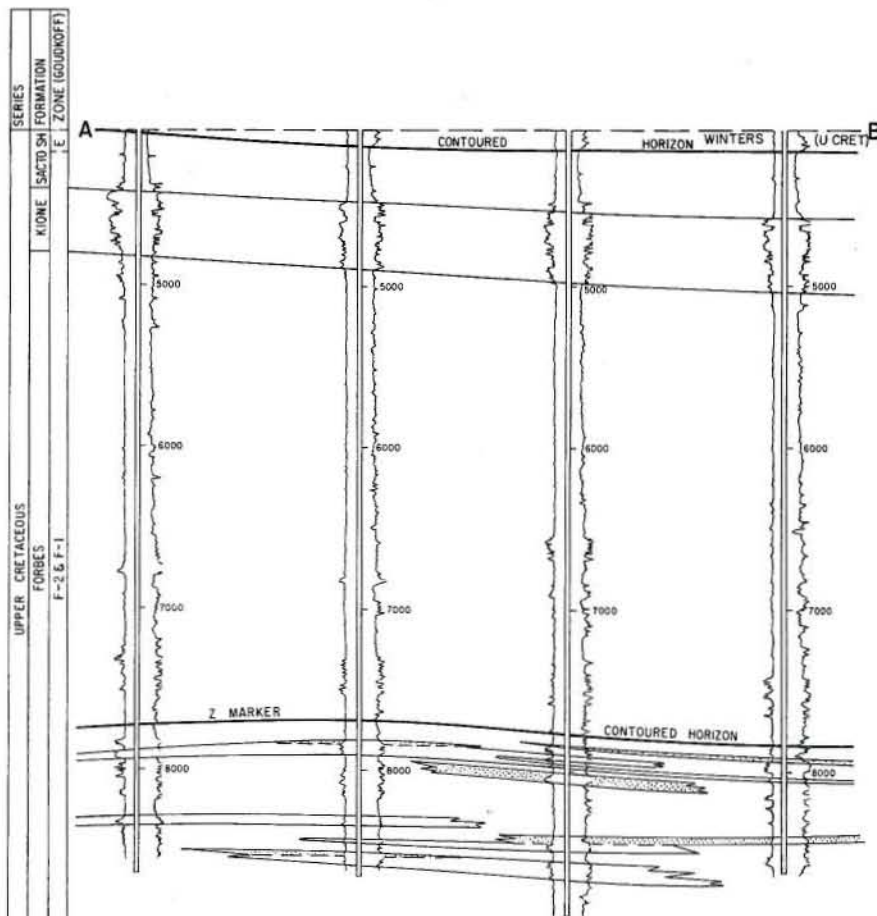
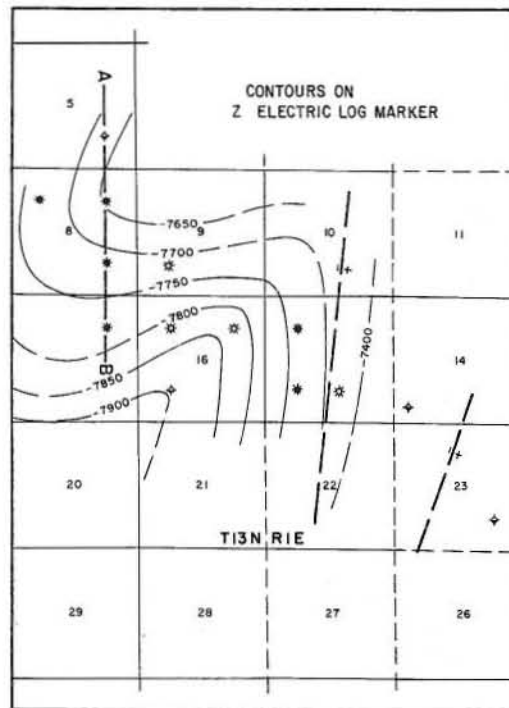
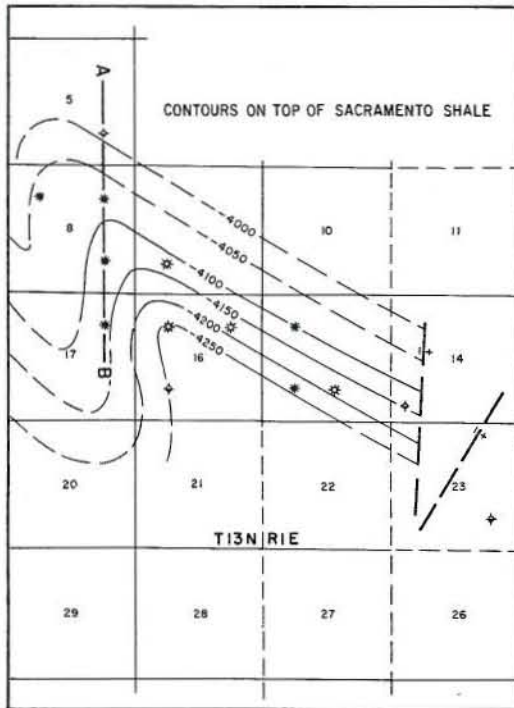
CURRENT CASING PROGRAM: 10 3/4" cem. 500; 5 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in March 1956. The field was abandoned in March 1957.

REFERENCES:

# KIRK GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

KIRK GAS FIELD  
Colusa and Sutter Counties

LOCATION: 9 miles northeast of Dunnigan

TYPE OF TRAP: Lenticular sands

ELEVATION: 40

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed sand stringers)	Gulf Oil Corp. "Goff-Erdman Unit A" 1	Western Gulf Oil Co. "Goff-Erdman Unit A" 1	15 13N 1E	MD	3,037	1,150	18/64	Oct 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "Goff-Erdman Unit A" 1	Western Gulf Oil Co. "Goff-Erdman Unit A" 1	Sep 1960	15 13N 1E	MD	9,522	Goinda	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	7,330 - 8,710	15 - 95 per stringer	Lt Cretaceous	Forbes	783 - 1,015	655 - 1,050	3,750 - 5,750	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
276,493	4,639	960	5	4,571,541	1,018,815	1963	14	10	1,560

SPACING ACT: Applies

BASE OF FRESH WATER: 1,950

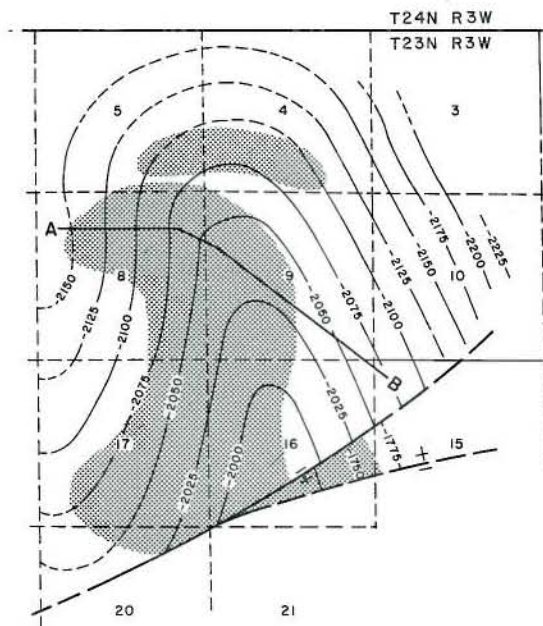
CURRENT CASING PROGRAM: 13 3/8" cem. 350; 8 5/8" cem. 3,500; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water is hauled to West Grimes Gas Field and injected into Gulf Oil Corp. disposal well.

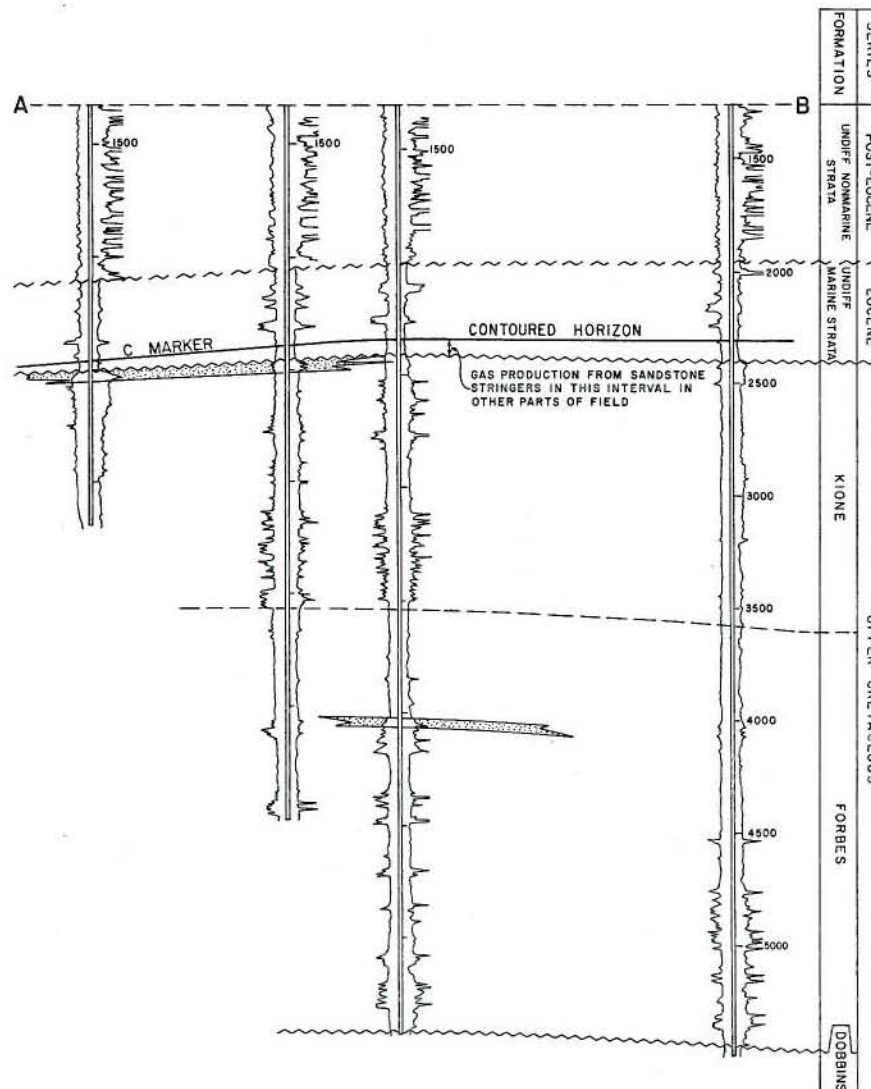
REMARKS: Commercial gas deliveries began in December 1961.

REFERENCES: Hunter, W.J., Kirk Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 1 (1962).

# KIRKWOOD GAS FIELD



CONTOURS ON C ELECTRIC LOG MARKER





# CALIFORNIA DIVISION OF OIL AND GAS

KIRKWOOD GAS FIELD  
Tehama County

LOCATION: 8 miles north of Orland

TYPE OF TRAP: Lenticular sands on faulted nose

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production		Date of completion
					Daily (Mcft)	Flow pressure (psi)	
(Sand stringers) Klone Forbes	Franklin Oil and Gas Co. "Junkin" 1 Franklin Oil and Gas Co. "Morgan" 2	W. S. Payne, Jr., Opr. "Junkin" 1 W. S. Payne, Jr., Opr. "James W. Morgan et al" 2	5 23N 3W	MD	4,550	750	1/2 Jul 1960
	James W. Morgan "James W. Morgan et al" 1	Humble Oil & Refg. Co. "James W. Morgan et al" 1	9 23N 3W	MD	3,280	640	25/64 May 1960
					1,120	750	1/2 Dec 1958

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Status	Age
Sun Oil Co. "Tucker-Gay" 1	Sunray DX Oil Co. "Tucker-Gay" 1	May 1964	10 23N 3W	MD	5,900	Dobbins	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (bbl)	Salinity of zone water (gr/gal)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Sand stringers)	2,400	25	Eocene	Undiff. marine strata	1,005	120	1,080	IV
Klone	2,450	40	Lt Cretaceous	Klone	1,010	130	1,020	IV
Forbes	4,020	30	Lt Cretaceous	Forbes	1,010	N.A.	1,970	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 proved acreage	1972 Maximum producing wells	Cumulative gas production (Mcft)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcft)	Water (bbl)				(Mcft)	Year	Drilled	Completed	
582,023	105	1,360	8	8,047,793	1,496,884	1962	29	16	1,770

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

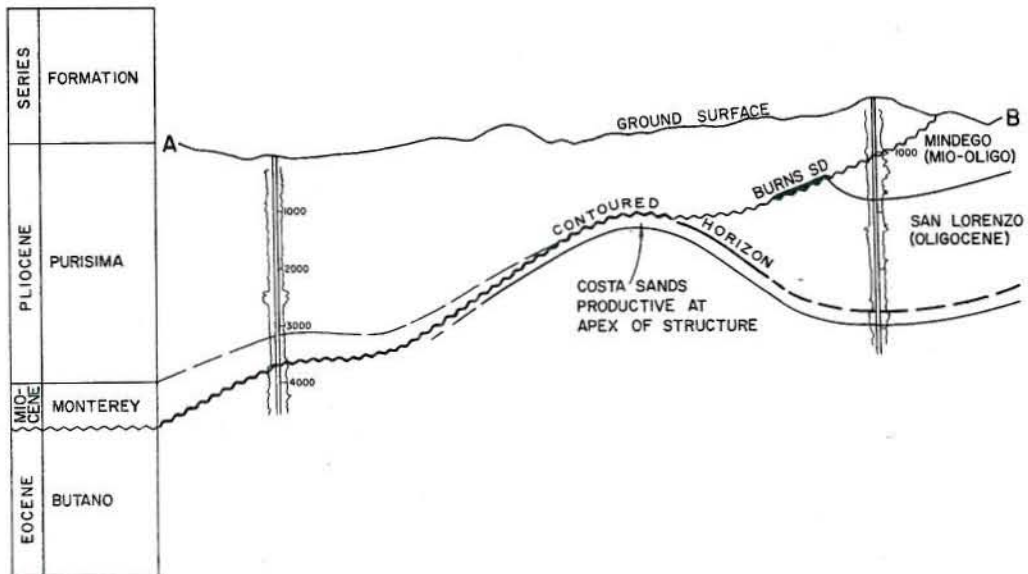
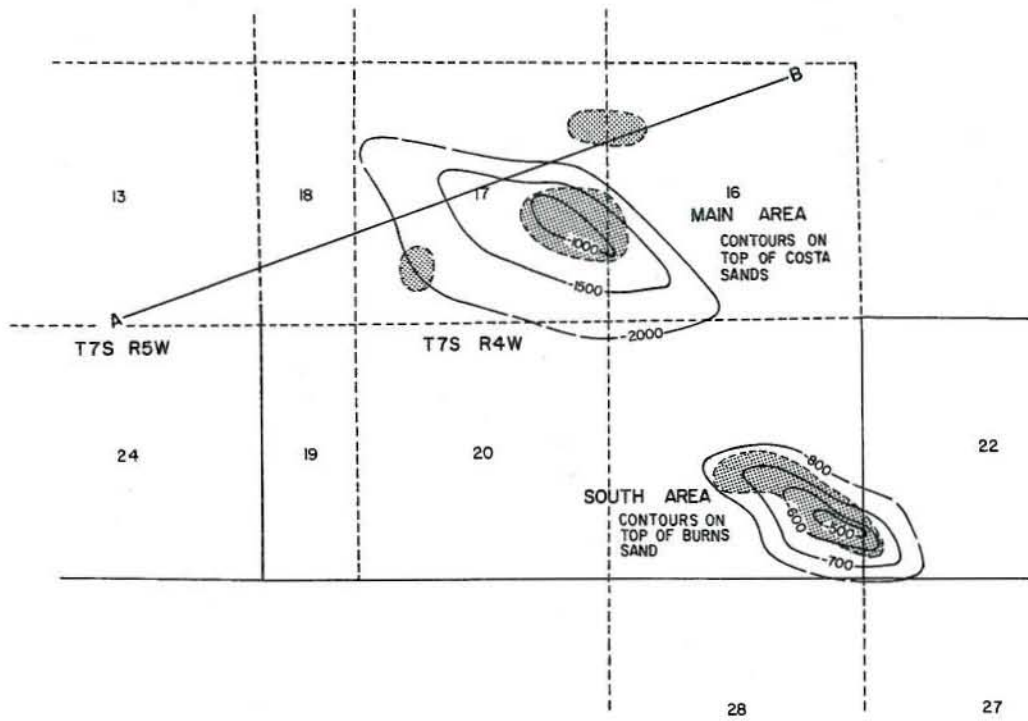
CURRENT CASING PROGRAM: 8 5/8" or 7" cem. 1,000; 4 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Disposal of waste water into sumps.

REMARKS: Commercial gas deliveries began in May 1961. Some of the Eocene sand stringers have been given local names by the operators.

REFERENCES: Beecroft, G.W., Kirkwood Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 1 (1964).

# LA HONDA OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

LA HONDA OIL FIELD

San Mateo County

LOCATION: 11 miles southwest of Palo Alto

TYPE OF TRAP: See areas

ELEVATION: 200 - 840

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Costa	Pacific-Western Apache Petroleum Co. "Carter Lane" 2	Neaves Petroleum Developments "Neaves-Union Oil-Lane" 3	17 7S 4W	MD	100	15	Dec 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Neaves Petroleum Developments "Neaves-Union Oil Co. Lane" 1	Same	May 1956	16 7S 4W	MD	4,271	Butano	Eocene

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
15,600	639	127,410	120	9	1,112,326	132,778	178,184	1957	54	23	135

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See Main Area.

# CALIFORNIA DIVISION OF OIL AND GAS

MAIN AREA

LA HONDA OIL FIELD

San Mateo County

LOCATION: See map sheet of La Honda Oil Field

TYPE OF TRAP: Anticline; sand overlap or pinchout

ELEVATION: 200 - 840

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Burns	Neaves Petroleum Developments "Neaves-La Honda" 8	Same as present	17 7S 4W	MD	17	N.A.	May 1958
Costa	Pacific-Western Apache Petroleum Co. "Carter Lane" 2	Neaves Petroleum Developments "Neaves-Union Oil-Lane" 3	17 7S 4W	MD	100	15	Dec 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Neaves Petroleum Developments "Neaves-Union Oil Co. Lane" 1	Same	May 1956	16 7S 4W	MD	4,271	Butano	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Burns	1,120	30	Pliocene	Purisima	24	N.A.	II
Costa	1,660 - 2,740	60	Eocene	Butano	32 - 40	1,150	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
6,638	639	48,162	70	4	733,063	93,947	178,184	1957	27	11	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 150

CURRENT CASING PROGRAM: 10 3/4" cem. 300 - 500; 5 1/2" combination string landed through zone and cem. through ports above zone.

METHOD OF WASTE DISPOSAL: In 1972 all waste water was injected into a water disposal well.

REMARKS:

REFERENCES: Fothergill, H.L., La Honda Oil Field, Calif. in Geologic Guide to the Gas and Oil Fields of Northern Calif.: Calif. Div. of Mines and Geology Bull. 181, p. 221, 222 (1962).

# CALIFORNIA DIVISION OF OIL AND GAS

SOUTH AREA

LA HONDA OIL FIELD

San Mateo County

LOCATION: See map sheet of La Honda Oil Field

TYPE OF TRAP: Anticline; sand overlap or pinchout

ELEVATION: 565 - 815

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Burns	Pacific-Western Apache Petroleum Co. "Burns" 1	Neaves Petroleum Developments "Neaves-Union-Burns" 1	21 7S 4W	MD	25	N.A.	Jul 1959
Costa	Pacific-Western Apache Petroleum Co. "Burns" 14	Neaves Petroleum Developments "Neaves-Union-Burns" 14	21 7S 4W	MD	30	N.A.	Jan 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Pacific-Western Apache Pet. Co. "Burns-Texaco" 1	Neaves Pet. Developments "Neaves-Texaco Burns" 1	Mar 1960	22 7S 4W	MD	4,015	Butano	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Burns	1,400	75	Pliocene	Purisima	16	2,400	II
Costa	2,500	30	Eocene	Butano	31	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
8,962	0	79,248	50	5	379,263	38,831	95,717	1960	27	12	65

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 150

CURRENT CASING PROGRAM: 10 3/4" cem. 300 - 500; 5 1/2" combination string landed through zone and cem. through ports above zone.

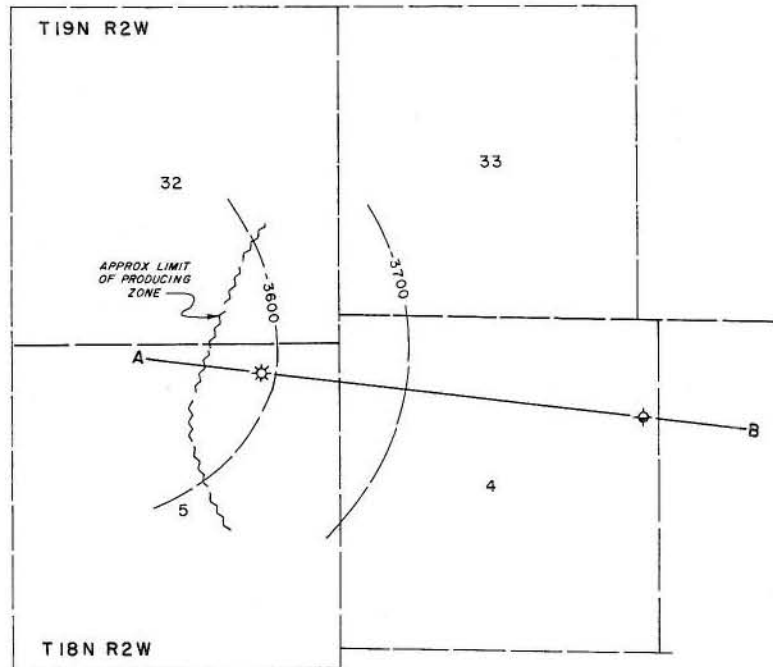
METHOD OF WASTE DISPOSAL: In 1972 all waste water was injected into a water disposal well.

REMARKS:

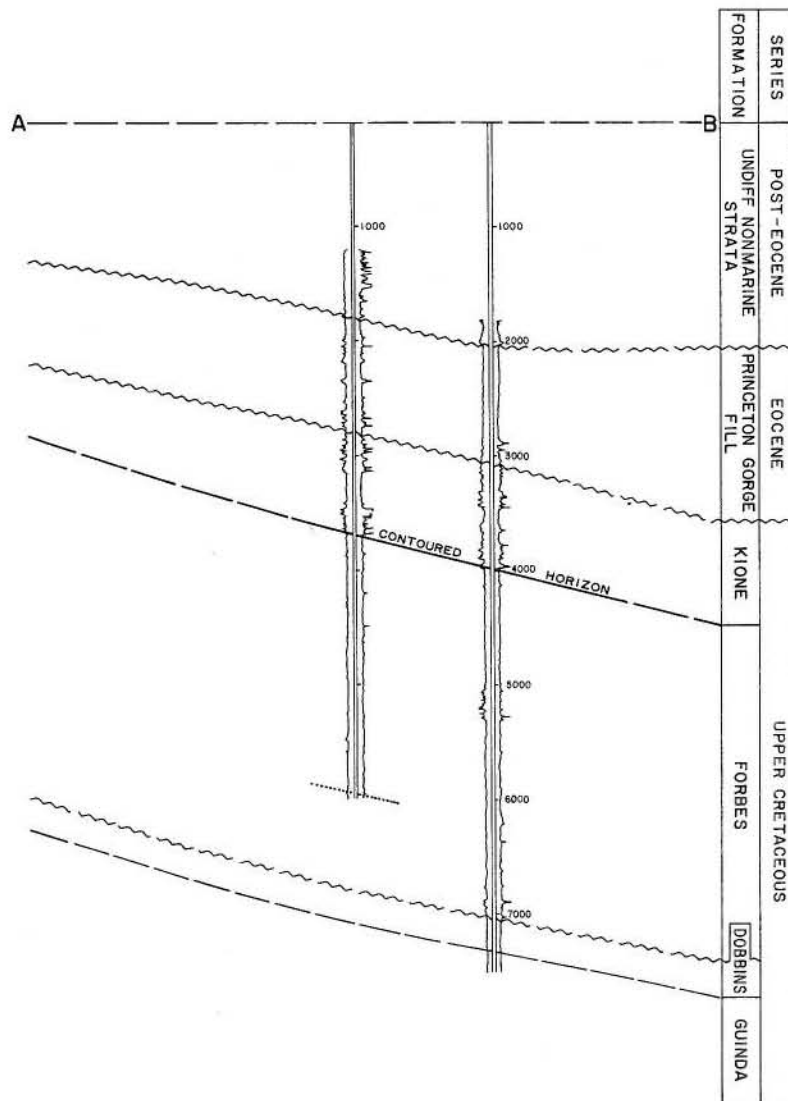
REFERENCES:



# WEST LARKIN GAS FIELD (Abandoned)



CONTOURS ON TOP OF FORBES



## CALIFORNIA DIVISION OF OIL AND GAS

LARKIN, WEST, GAS FIELD (Abandoned)

Glenn County

LOCATION: 5 miles northwest of Princeton

TYPE OF TRAP: Lenticular sand on a nose

ELEVATION: 95

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed)	Gulf Oil Corp. "Capital Company" 1	Gene Reid Drilling, Inc. "Capital" 1	5 18N 2W	MD	1,000	650	16/64	Dec 1955

Remarks: Initial production data are from drillstem test during completion work.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Oct 1955	5 18N 2W	MD	5,993	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	5,933	18	Lt Cretaceous	Forbes	N.A.	N.A.	3,040	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	3,340	3,340	1957	1	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,600

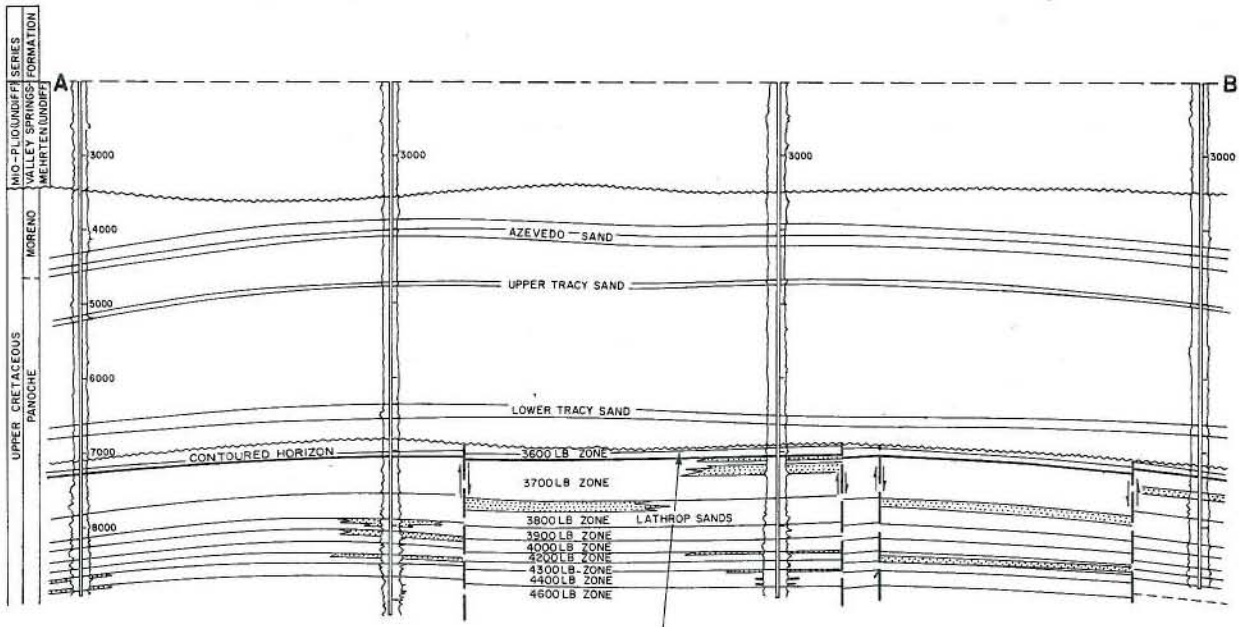
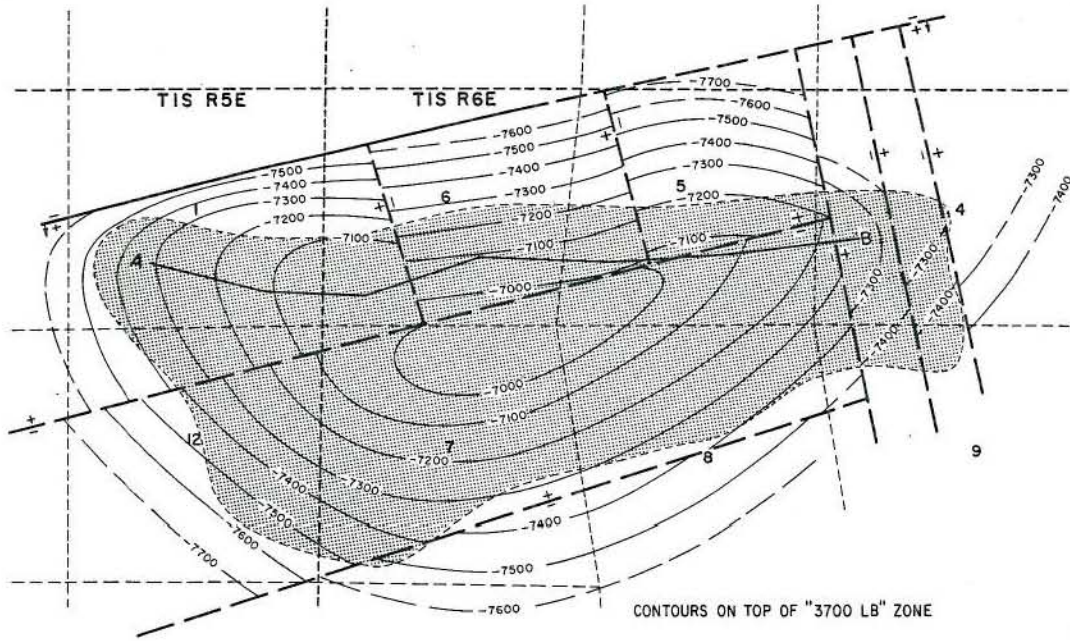
CURRENT CASING PROGRAM: 9 5/8" cem. 1,200; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Originally named the Willow Creek Gas area. No commercial gas sales were made; all gas produced was used to provide fuel to drill Gulf Oil Corp. "Capital Company" 2, Sec. 8, T. 18N., R. 2W. The field was abandoned in May 1958.

REFERENCES:

# LATHROP GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

LATHROP GAS FIELD

San Joaquin County

LOCATION: 6 miles southwest of Stockton

TYPE OF TRAP: Faulted anticline; lenticular sands

ELEVATION: 17

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Azevedo	Occidental Petroleum Corp. "Lathrop Unit B" 10	Occidental Petroleum Corp. "Lathrop Unit B" 10	7 1S 6E	MD	2,225	1,465	1/4	Dec 1971
Upper Tracy	Same as above	Same as above	7 1S 6E	MD	150	430	1/8	Dec 1971
Lower Tracy	Occidental Petroleum Corp. "Lathrop Unit C" 1	Same as present	7 1S 6E	MD	A 540	160	3/8	Jan 1962
3600 Lb.	Occidental Petroleum Corp. "Lathrop Unit B" 5	Same as present	7 1S 6E	MD	4,580	1,990	5/16	Aug 1962
3700 Lb.	Occidental Petroleum Corp. "Lathrop Unit A" 1	Same as present	5 1S 6E	MD	11,740	1,600	3/4	Oct 1961
3800 Lb.	Occidental Petroleum Corp. "Lathrop Unit B" 2	Same as present	8 1S 6E	MD	12,830	2,205	1/2	Feb 1962
3900 Lb.	Occidental Petroleum Corp. "Lathrop Unit C" 2	Occidental Petroleum Corp. "Lathrop Unit C" 2	6 1S 6E	MD	B 14,500	2,510	1/2	Jun 1962
4000 Lb.	Same as above	Same as above	6 1S 6E	MD	C 21,800	1,730	3/4	Dec 1961
4200 Lb.	Occidental Petroleum Corp. "Lathrop Unit B" 1	Same as present	5 1S 6E	MD				
4300 Lb.	Occidental Petroleum Corp. "Lathrop Unit C" 2	Same as present	6 1S 6E	MD	6,080	1,900	3/8	Jun 1962
4400 Lb.	Occidental Petroleum Corp. "Lathrop Unit B" 1	Same as present	5 1S 6E	MD	C 21,800	1,730	3/4	Dec 1961
4600 Lb.	Occidental Petroleum Corp. "Mobil Parcel Z" 1	Same as present	1 1S 5E	MD	4,280	1,900	5/16	Dec 1962

Remarks: A Results of open-hole test; zone not open to production.  
B Commingled production from 3900 Lb. and 4000 Lb. zones.  
C Commingled production from 4200 Lb. and 4400 Lb. zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Lathrop Unit B" 5	Same	Feb 1962	7 1S 6E	MD	12,787	G-1 Zone (Goudkoff)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Azevedo	3,950	75	Lt Cretaceous	Moreno	920	990	1,920	IV
Upper Tracy	4,747	75	Lt Cretaceous	Panoche	N.A.	N.A.	2,240	IV
Lower Tracy	6,295	50	Lt Cretaceous	Panoche	1,000	N.A.	2,810	IV
3600 Lb.	6,906	75	Lt Cretaceous	Panoche	960	820	3,610	IV
3700 Lb.	7,194	550	Lt Cretaceous	Panoche	880	1,200	3,730	IV
3800 Lb.	7,651	320	Lt Cretaceous	Panoche	880	1,420	3,850	IV
3900 Lb.	7,948	140	Lt Cretaceous	Panoche	865	1,120	3,940	IV
4000 Lb.	8,090	185	Lt Cretaceous	Panoche	865	1,515	4,040	IV
4200 Lb.	8,341	130	Lt Cretaceous	Panoche	825	915	4,210	IV
4300 Lb.	8,422	105	Lt Cretaceous	Panoche	830	625	4,240	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
33,199,970	55,966	2,330	24	221,933,630	33,199,970	1972	37	26	2,330

SPACING ACT: Applies

BASE OF FRESH WATER: 500

CURRENT CASING PROGRAM: 11 3/4" or 9 5/8" cem. 1,000; 7 5/8" or 5 1/2" cem. through zones.

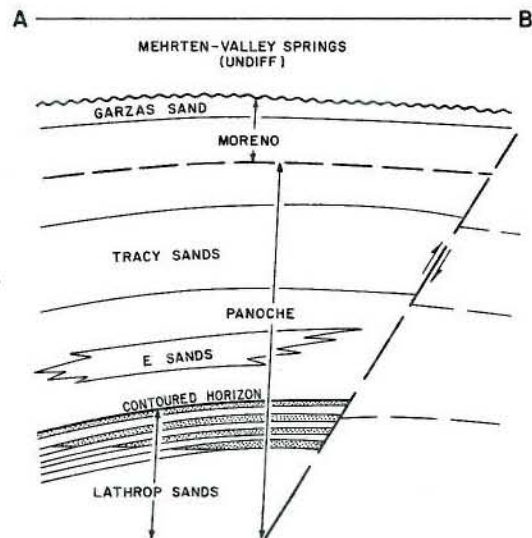
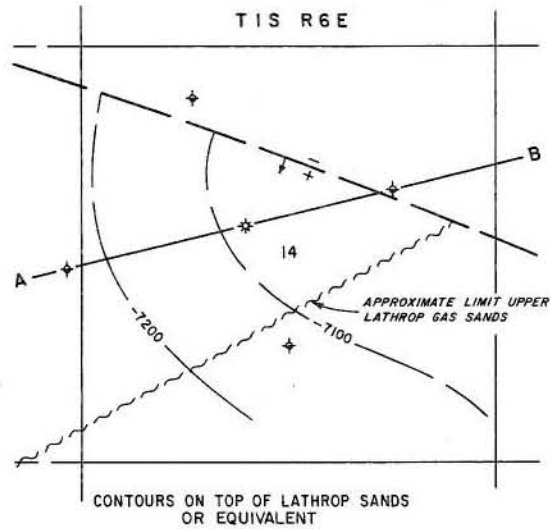
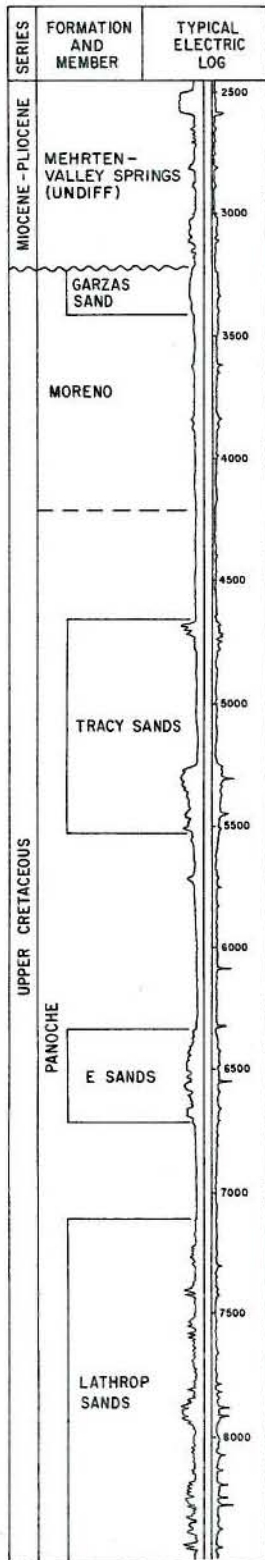
METHOD OF WASTE DISPOSAL: Disposal of waste water into sumps.

REMARKS: Commercial gas deliveries began in January 1963.

REFERENCES: Park, W.H., Lathrop Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).  
Teitworth, R.A., Geology and Development of the Lathrop Gas Field, San Joaquin Co., Calif. in Selected Papers Presented to San Joaquin Geological Society, Vol. 2, p. 19-29 (1964).



# LATHROP SOUTHEAST GAS FIELD (Abandoned)





CALIFORNIA DIVISION OF OIL AND GAS

LATHROP SOUTHEAST GAS FIELD (Abandoned)

San Joaquin County

LOCATION: 8 miles south of Stockton

TYPE OF TRAP: Faulted nose with sand pinchout

ELEVATION: 28

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Lathrop	E.B. Towne, Oper. "Southeast Lathrop Unit A" 1	Same as present	14 1S 6E	MD	2,350	1,490	1/4	Nov 1967

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
E.B. Towne, Oper. "Southeast Lathrop Unit A" 3	Same	Jan 1968	14 1S 6E	MD	9,680	Panoche	Late Cret

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Lathrop	7,110	82	Lt Cretaceous	Panoche	1,010	1,530	3,670	IV

PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	98,469	66,258	1969	4	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: Above 900

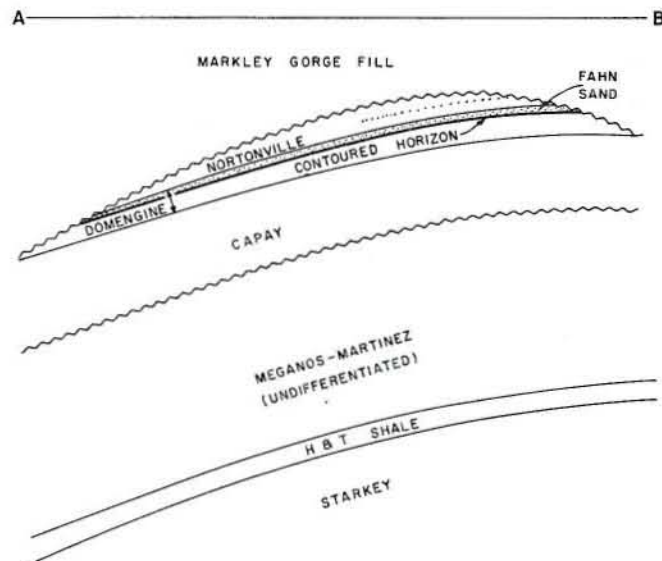
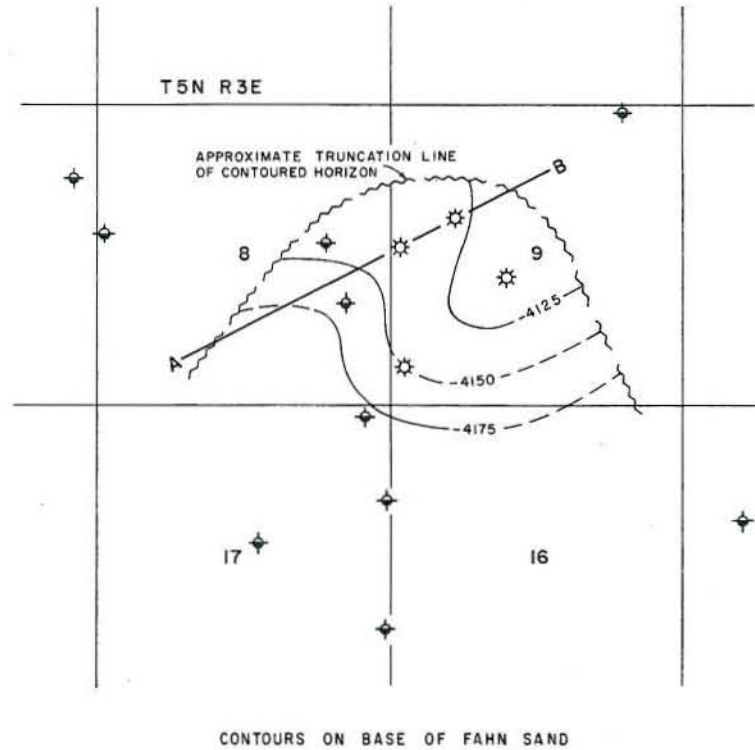
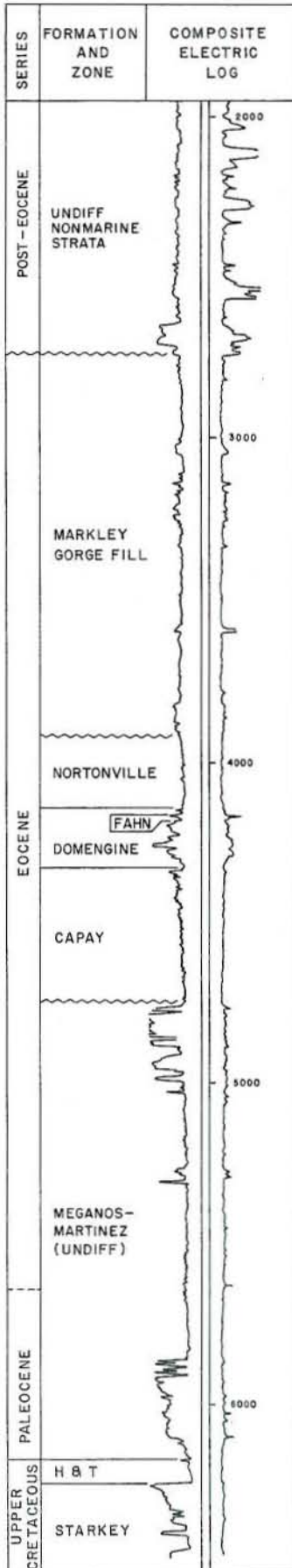
CURRENT CASING PROGRAM: 7" cem. 900; 4 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in July 1969. The field was abandoned in November 1971.

REFERENCES:

# LIBERTY CUT GAS FIELD (Abandoned)



# CALIFORNIA DIVISION OF OIL AND GAS

LIBERTY CUT GAS FIELD (Abandoned)

Solano County

LOCATION: 22 miles southwest of Sacramento

TYPE OF TRAP: Nose truncated by gorge; lenticular sands

ELEVATION: 2

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed)	Arcady Oil Co. "Fahn" 4	Same as present	9 5N 3E	MD	1,000	1,100	14/64	Oct 1954
Fahn	Arcady Oil Co. "Fahn" 1	Same as present	9 5N 3E	MD	2,000	1,500	12/64	Nov 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Arcady Oil Co. "Fahn" 5	Same	Aug 1956	8 5N 3E	MD	6,463	Starkey	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	4,060	10	Eocene	Nortonville	996	580	1,770	IV
Fahn	4,130	15	Eocene	Domengine	996	580	1,820	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	179,030	114,677	1957	9	4	190

SPACING ACT: Applies

BASE OF FRESH WATER: 2,600

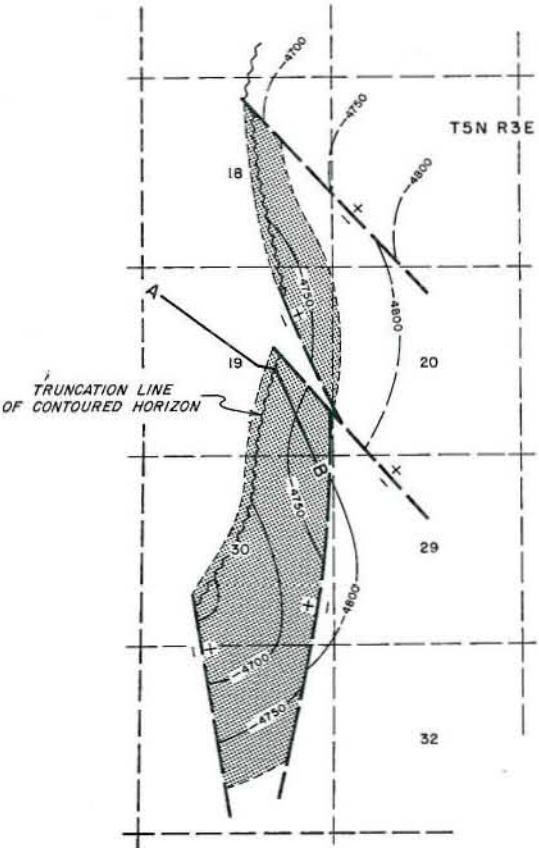
CURRENT CASING PROGRAM: 10 3/4 cem 500; 5 1/2" cem through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

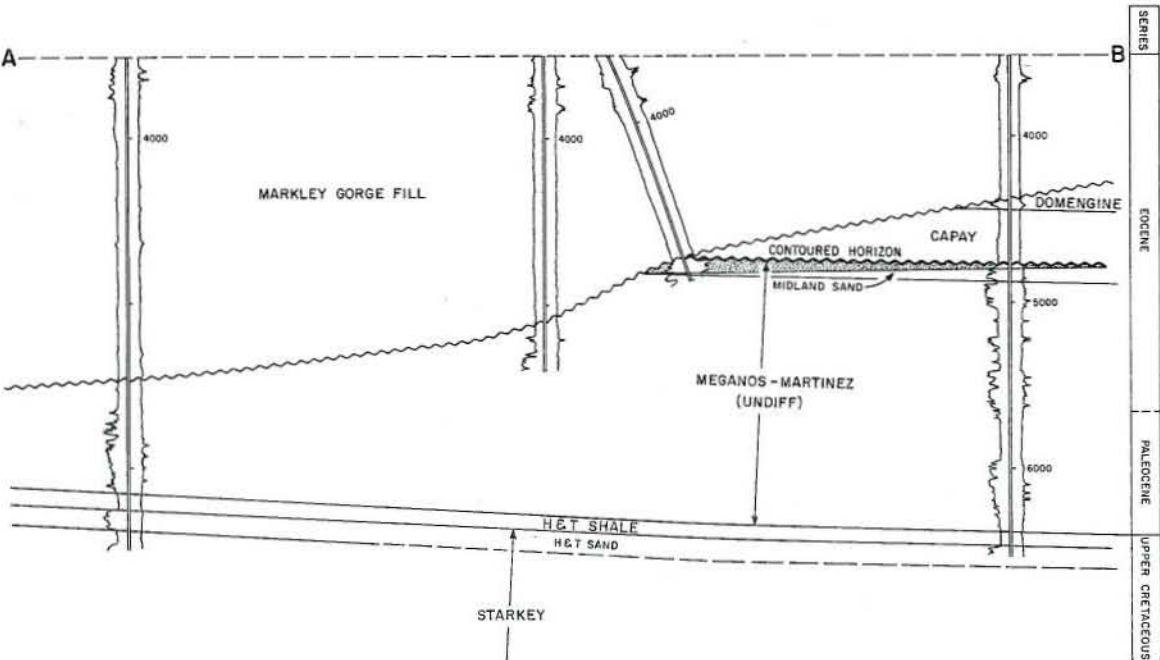
REMARKS: Gas production was commingled from both the Fahn zone and unnamed sand stringers in the Nortonville Formation. Commercial gas deliveries began in June 1957. The field was abandoned in Oct. 1965.

REFERENCES:

LIBERTY ISLAND GAS FIELD



CONTOURS ON TOP OF MIDLAND SAND



CALIFORNIA DIVISION OF OIL AND GAS

LIBERTY ISLAND GAS FIELD

Solano County

LOCATION: 6 miles north of Rio Vista

TYPE OF TRAP: Faulted noses truncated by gorge

ELEVATION: 10

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Midland	Reserve Oil and Gas Co. "Liberty Farms - Reynolds" 2	Same as present	19 SN 3E	MD	3,900	1,400	3/8	Dec 1960

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Texaco Inc. "Emigh" 1	Same	Mar 1962	30 SN 3E	MD	6,771	Starkey	Lt Cret

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Midland	4,725	30	Eocene	Meganos	990	460	2,020	IV

PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,147,817	1,084	295	4	25,173,760	4,948,162	1963	17	12	690

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500 - 3,350

CURRENT CASING PROGRAM: 10 3/4" to 7" cem. 500 - 600; 4 1/2" cem. through zone and across base of fresh-water sands.

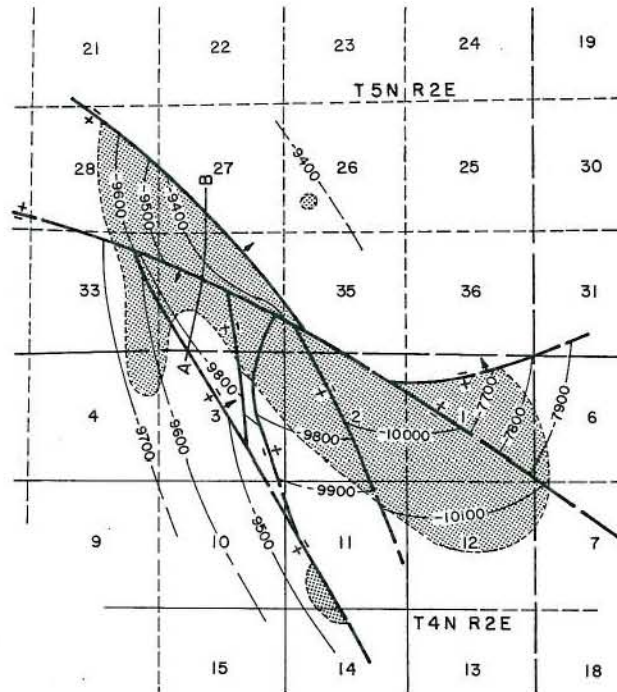
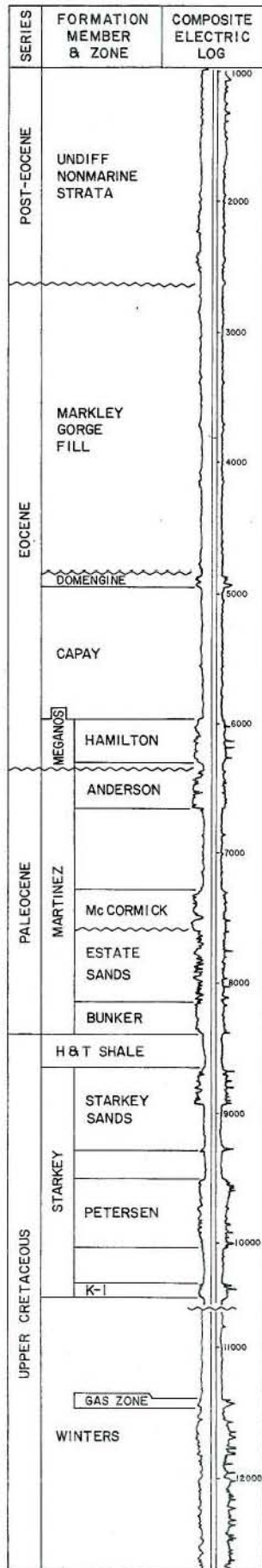
METHOD OF WASTE DISPOSAL: Waste water is hauled to approved disposal site.

REMARKS: Commercial gas deliveries began in August 1961.

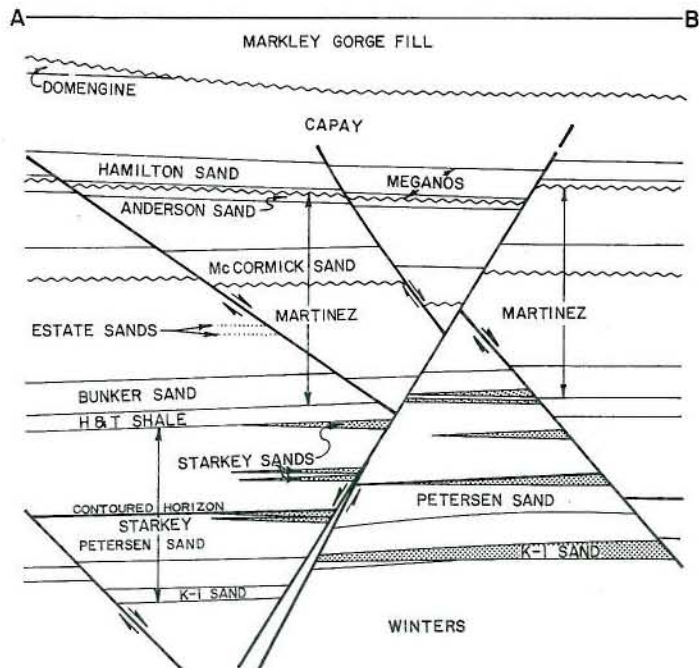
REFERENCES: Beecroft, G.W., Liberty Island Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 1 (1961).



# LINDSEY SLOUGH GAS FIELD



CONTOURS ON TOP OF PETERSEN SAND



# CALIFORNIA DIVISION OF OIL AND GAS

LINDSEY SLOUGH GAS FIELD

Solano County

LOCATION: 4 miles northwest of Rio Vista

TYPE OF TRAP: Faulted anticline

ELEVATION: 10

## DISCOVERY DATA

SECRET DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed sand stringers)	Amerada Hess Corp., Oper. "ARPE" 1	Amerada Petroleum Corp. "Richfield - Petersen" 1	34 5N 2E	MD	1,370	1,720	3/16	Jun 1969
McCormick	Amerada Hess Corp., Oper. "ARPE" 1	Amerada Petroleum Corp. "Richfield - Petersen" 1	34 5N 2E	MD	3,120	2,440	*	Mar 1963
Estate	Amerada Hess Corp., Oper. "M.W. Church" 6	Amerada Petroleum Corp. "Church" 6	2 4N 2E	MD	1,925	2,900	3/4	Nov 1964
1st Starkey	Amerada Hess Corp., Oper. "M.W. Church" 5	Amerada Petroleum Corp. "Church" 5	2 4N 2E	MD	3,100	2,640	*	Jan 1963
2nd Starkey	Signal Oil and Gas Co. "Petersen Estate Unit" 1	Signal Oil and Gas Co. "Petersen Estate Unit" 1	34 5N 2E	MD	4,500	2,300	20/64	Dec 1965
Petersen	Amerada Hess Corp., Oper. "Union-Pet. Est." 1	Amerada Petroleum Corp. "Petersen" 1	3 4N 2E	MD	8,860	2,570	3/8	Nov 1962
K-1	Amerada Hess Corp., Oper. "Union - Robinson" 1	Amerada Petroleum Corp. "Union - Robinson" 1	4 4N 2E	MD	2,340	1,440	1/4	Jul 1963
First Winters	Signal Oil and Gas Co. "Church" 2	Same as present	1 4N 2E	MD	4,650	2,640	18/64	Jun 1969

Remarks: \* Test unit with adjustable choke.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Peter Cook" 16	Same	Jan 1964	10	4N 2E	MD	15,050	Forbes Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	6,820	25	Paleocene	Martinez	1,080	50	N.A.	IV
McCormick	6,975	82	Paleocene	Martinez	1,080	1,240	3,120	IV
Estate	5,480 - 8,360	59	Paleocene	Martinez	1,075	985	2,330 - 3,640	IV
1st Starkey	8,700	47	Lt Cretaceous	Starkey	1,070	1,160	4,070	IV
2nd Starkey	9,025	65	Lt Cretaceous	Starkey	1,080	900	4,350	IV
Petersen	7,665 - 9,940	60	Lt Cretaceous	Starkey	1,080	990	3,350 - 4,630	IV
K-1	10,228	94	Lt Cretaceous	Starkey	1,070	995	4,650	IV
First Winters	9,130	25	Lt Cretaceous	Winters	1,080	80	4,320	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
12,070,574	196,276	2,350	23	71,116,082	16,065,898	1971	42	28	2,390

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500 - 3,000

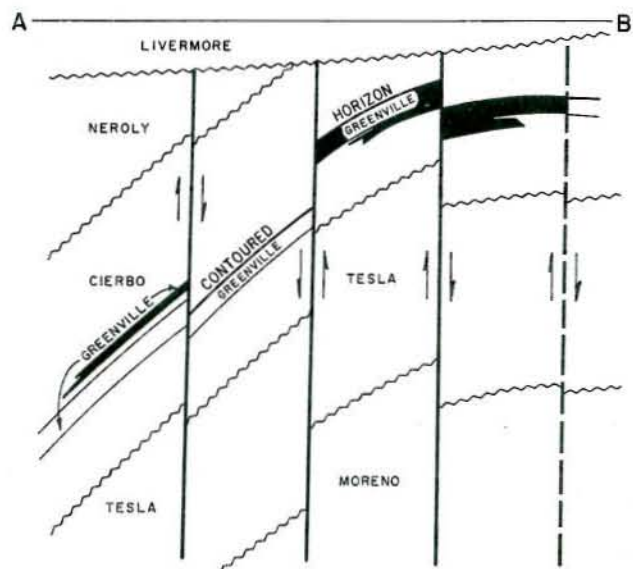
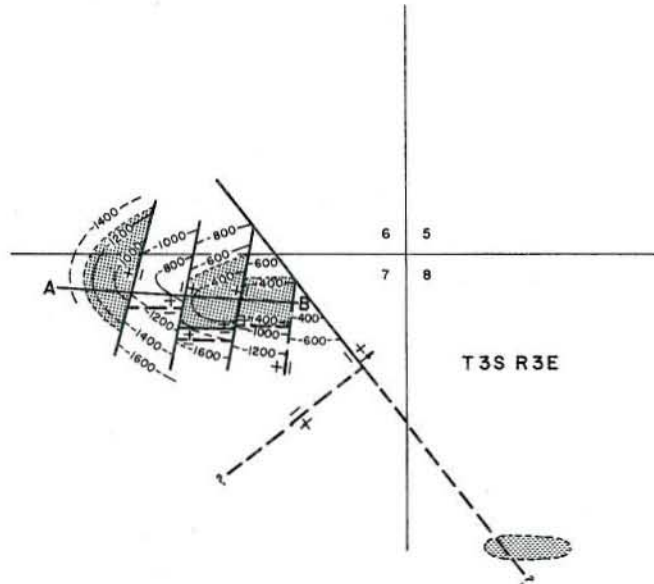
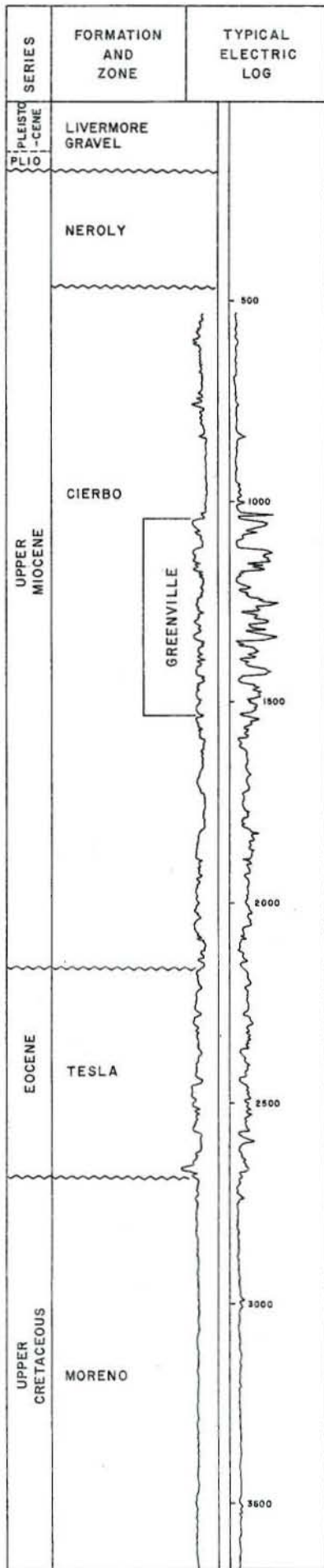
CURRENT CASING PROGRAM: 10 3/4" cem. 700 - 1,200; 7" or 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water is treated and then disposed into a local drainage system or sumps at well sites.

REMARKS: Possible productive intervals in the Domingue and Bunker sands have never been tested. Commercial gas deliveries began in October 1964. 1972 condensate production 66,733 bbl.; cumulative condensate production 371,519 bbl.

REFERENCES:

# LIVERMORE OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

LIVERMORE OIL FIELD

Alameda County

LOCATION: 4 miles east of Livermore

TYPE OF TRAP: Faulted nose

ELEVATION: 575 - 960

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Greenville	Hershey Oil Corp. "Greenville Investment Group" 1	McCulloch Oil Corp. of Calif. "Greenville Investment Group" 1	7 3S 3E	MD	397	N.A.	Jan 1967
(Unnamed)	E.C. Brown, Operator "Lupin" 2	Same as present	8 3S 3E	MD	40	N.A.	Oct 1967

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Hershey Oil Corp. "Nissen" 3	McCulloch Oil Corp. of Calif. "Nissen" 3	Sep 1967	7 3S 3E	MD	6,819	Moreno (?)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Greenville	880 - 2,000	40 - 250	late Miocene	Cierbo	25 - 29	200 - 550	III
(Unnamed)	5,300	25	Eocene	Tesla	36	550	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
121,434	0	21,842	65	7	771,466	0	161,829	1969	32	10	90

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 200

CURRENT CASING PROGRAM: 10 3/4" or 9 5/8" cem. 300 - 600; 7" or 5 1/2" cem. above zone; 5 1/2" or 4 1/2" liner landed through zone.

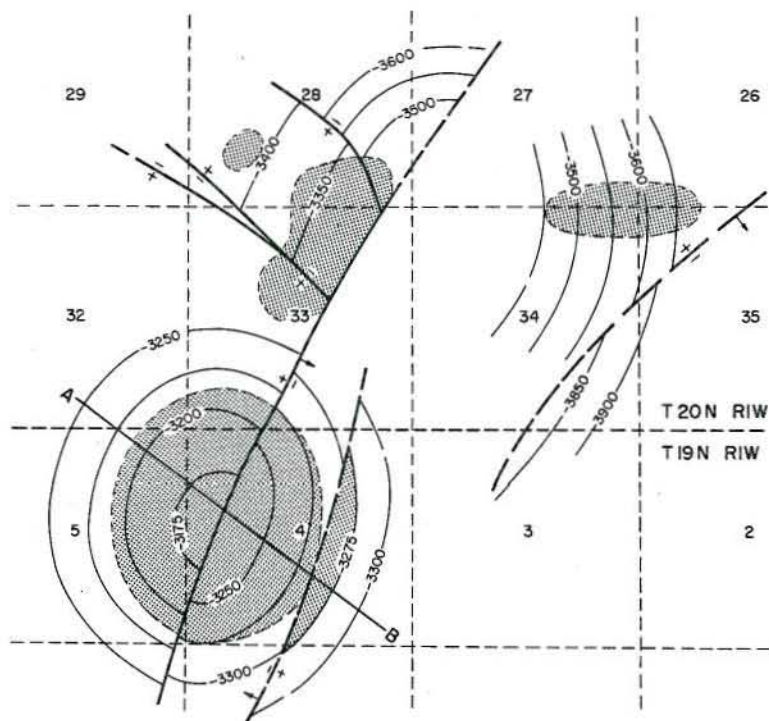
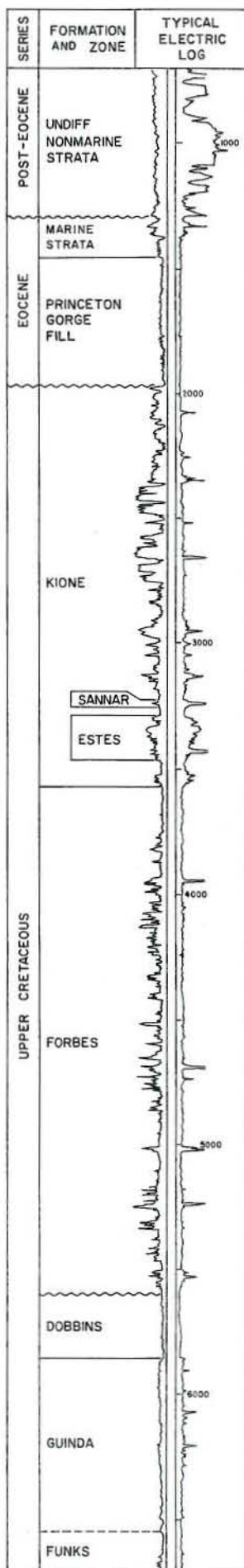
METHOD OF WASTE DISPOSAL: All waste water was injected during 1972 into one water disposal well.

REMARKS: Production from the Tesla formation was minor. One well was completed in this formation and it was abandoned in March 1969.

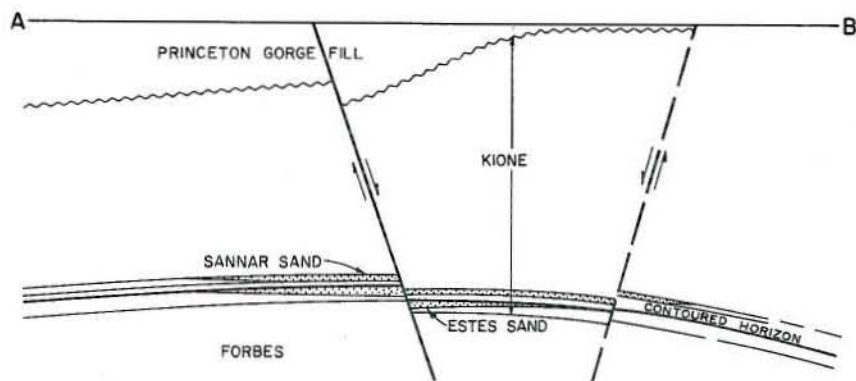
REFERENCES:



# LLANO SECO GAS FIELD



CONTOURS ON TOP OF ESTES SAND





## CALIFORNIA DIVISION OF OIL AND GAS

LLANO SECO GAS FIELD  
Butte and Glenn Counties

LOCATION: 11 miles east of Willows

TYPE OF TRAP: Faulted anticline; lenticular sands

ELEVATION: 110

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed)	Sacramento Natural Gas Co. "Parrott Investment Co." 1-A	Sacramento Oil and Gas Co. "Parrott Investment Co." 1-A	33 20N 1W	MD	3,300	605	1/2	Dec 1961
Sannar	Exxon Corp. "Parrott Investment Co." 2	Humble Oil & Refg. Co. "Parrott Investment Co." 2	4 19N 1W	MD	A 4,030	1,160	3/8	Nov 1954
Estes	Same as above	Same as above	4 19N 1W	MD	B 4,000	1,170	3/8	Oct 1961
(Unnamed sand stringers)	Dal Petroleum Co. "Parrott Investment Co." 1-A	Sacramento Oil and Gas Co. "Parrott Investment Co." 1	33 20N 1W	MD				

Remarks: A Production from Sannar and Estes zones commingled in discovery well.  
B Open-hole formation test.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Llano Seco" 1	General Petroleum Corp. "Llano Seco" 1	Sep 1946	33 20N 1W	MD	8,306	Funks	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	1,600	20	Eocene	Undiff. marine strata	975	480	740+	IV
Sannar	3,260	12	Lt Cretaceous	Kione	960	240	1,494	IV
Estes	3,300	5	Lt Cretaceous	Kione	960	240	1,762	IV
(Unnamed sand stringers)	4,550 - 5,200	5 - 20 per stringer	Lt Cretaceous	Forbes	975	480	2,086 - 2,686	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
29,039	0	180	3	5,385,828	1,207,199	1957	38	17	655

SPACING ACT: Applies

BASE OF FRESH WATER: 1,300

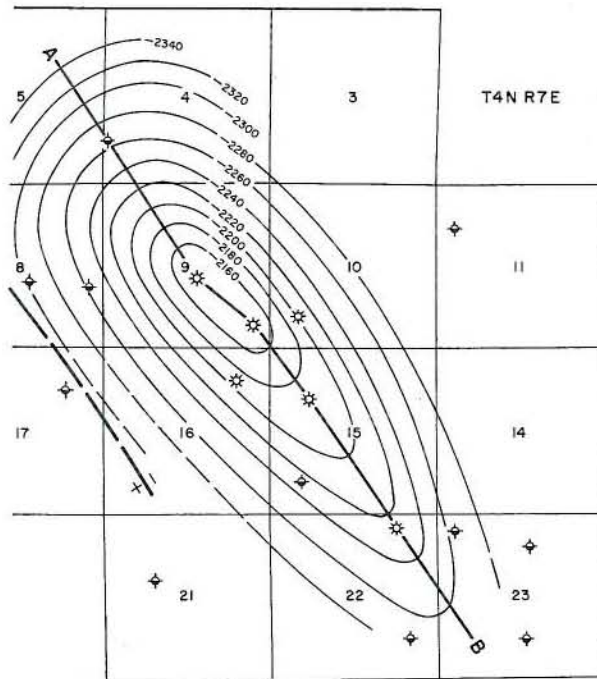
CURRENT CASING PROGRAM: 10 3/4" to 8 5/8" cem. 600; 5 1/2" to 4 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

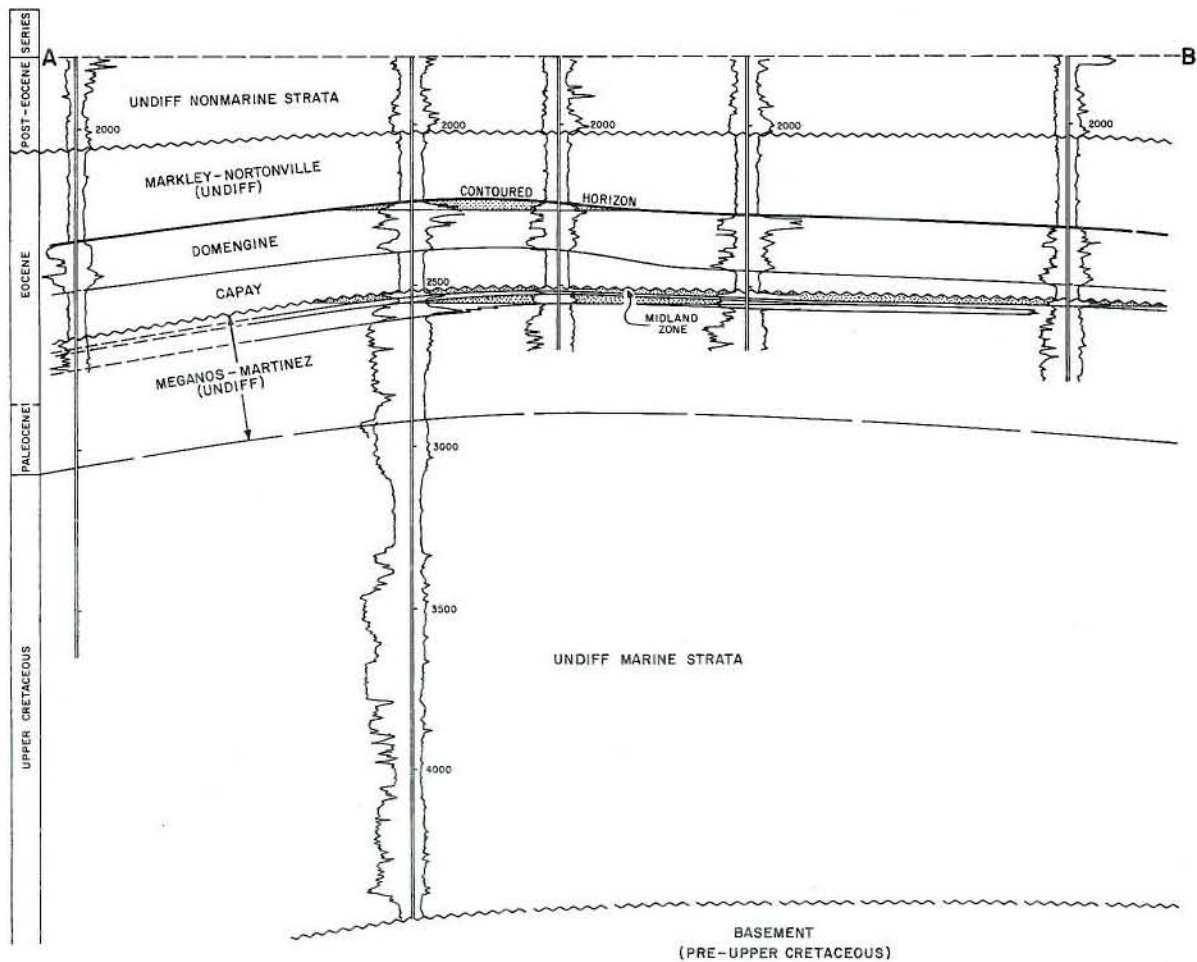
REMARKS: Commercial gas deliveries began in July 1957. Only a trace amount of waste water is produced.

REFERENCES:

# LODI GAS FIELD (Abandoned)



CONTOURS ON TOP OF DOMENGINE



# CALIFORNIA DIVISION OF OIL AND GAS

LODI GAS FIELD (Abandoned)

San Joaquin County

LOCATION: 5 miles northeast of Lodi

TYPE OF TRAP: Anticline

ELEVATION: 90

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Domengine	Amerada Hess Corp., Unit Oper. "LGZU" 101	Amerada Petroleum Corp. "Community 9" 1	9 4N 7E	MD	7,222	355	1/2	Apr 1943
Midland	Amerada Hess Corp., Unit Oper. "LGZU" 301	Amerada Petroleum Corp. "Community 15" 1	15 4N 7E	MD	2,800	906	3/8	Mar 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Amerada Hess Corp., Unit Oper. "LGZU D" 201	Amerada Petroleum Corp. "Community 10" 1	May 1943	10 4N 7E	MD	4,495	Basement	pre-Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Domengine	2,280	25	Eocene	Domengine	750	110	987	IV
Midland	2,515	35	Eocene	Meganos	700	200	1,093	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	23,204,145	1,301,472	1947	13	6	1,450

SPACING ACT: Applies

BASE OF FRESH WATER: 1,700

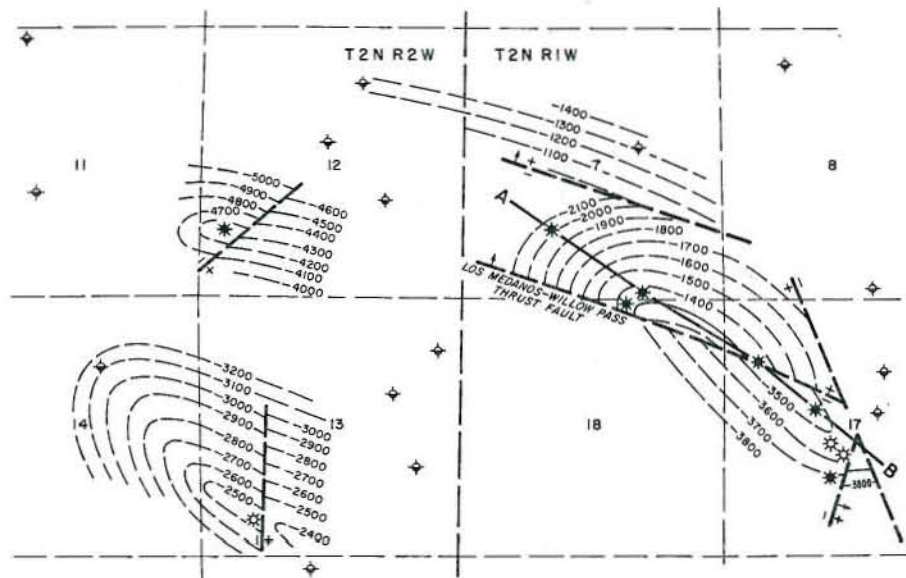
CURRENT CASING PROGRAM: 7" to 9 5/8" cem. 500; 4 1/2" or 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: After June 1969, all produced water was injected into disposal well.

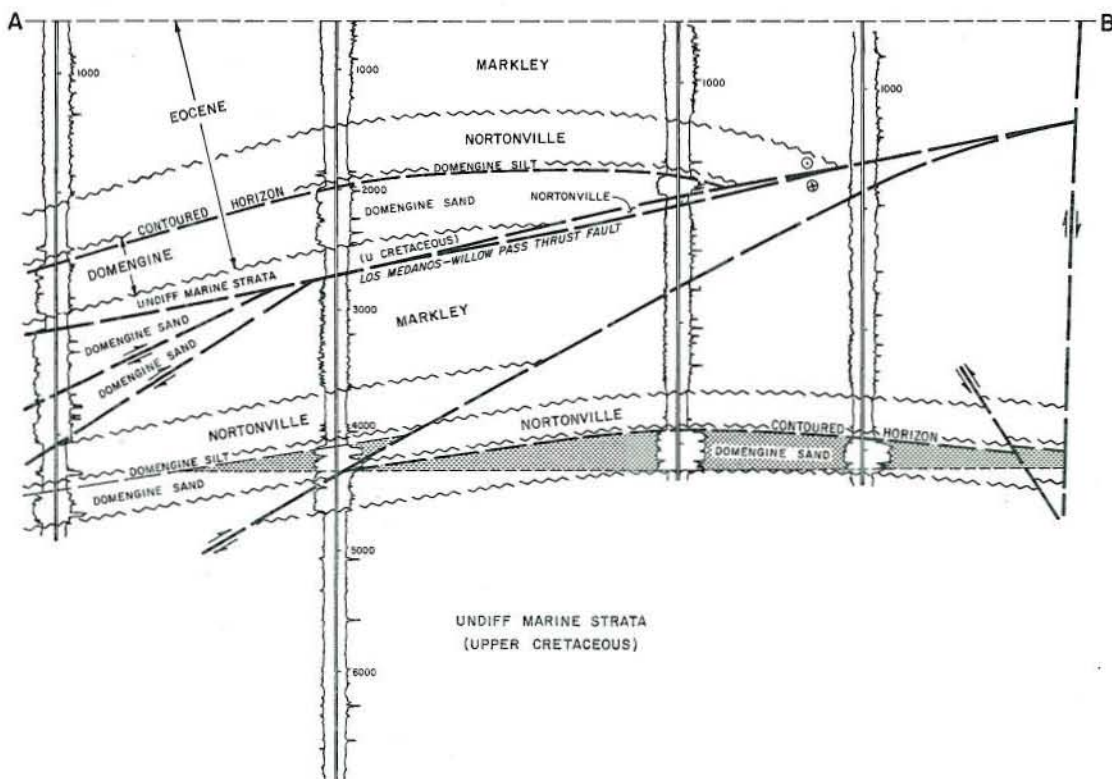
REMARKS: Commercial gas deliveries began in October 1946 and ceased in January 1971. The field was abandoned in March 1972.

REFERENCES: Huey, W.F., Lodi Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).

# LOS MEDANOS GAS FIELD



CONTOURS ON TOP OF DOMENGINE SAND





# CALIFORNIA DIVISION OF OIL AND GAS

LOS MEDANOS GAS FIELD

Contra Costa County

LOCATION: 1 mile south of Port Chicago

TYPE OF TRAP: Faulted anticline; faulted noses

ELEVATION: 217 - 573

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Nortonville	Shell Oil Co. "Ginocchio" 1-18	McCulloch Oil Corp. of Calif. "McCulloch-Macson-Ginocchio" 1	18 2N 1W	MD	1,500	425	3/8	Jun 1959
Domengine	Same as above	Same as above	18 2N 1W	MD	1,590	425	24/64	May 1958
Upper Cretaceous	Standard Oil Co. of Calif. "C.C.C.W.D." 1	Same as present	13 2N 2W	MD	690	820	3/16	Apr 1962

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Ginocchio" 3-7	McCulloch Oil Corp. of Calif. "McCulloch-Ginocchio" 3	Dec 1961	7 2N 1W	MD	6,941	Undiff. marine	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville	1,500 - 4,300	40	Eocene	Nortonville	1,020	N.A.	650 - 1,665	IV
Domengine	1,800 - 4,000	150	Eocene	Domengine	1,020	630	650 - 1,760	IV
Upper Cretaceous	2,800	10	Lt Cretaceous	Undiff. marine strata	975	N.A.	1,570	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,266,604	12,386	310	7	31,686,759	5,033,197	1961	21	10	360

SPACING ACT: Applies

BASE OF FRESH WATER: 150 - 1,000

CURRENT CASING PROGRAM: 10 3/4" cem. 500; 5 1/2" cem. through gas zones and across base of fresh-water sands.

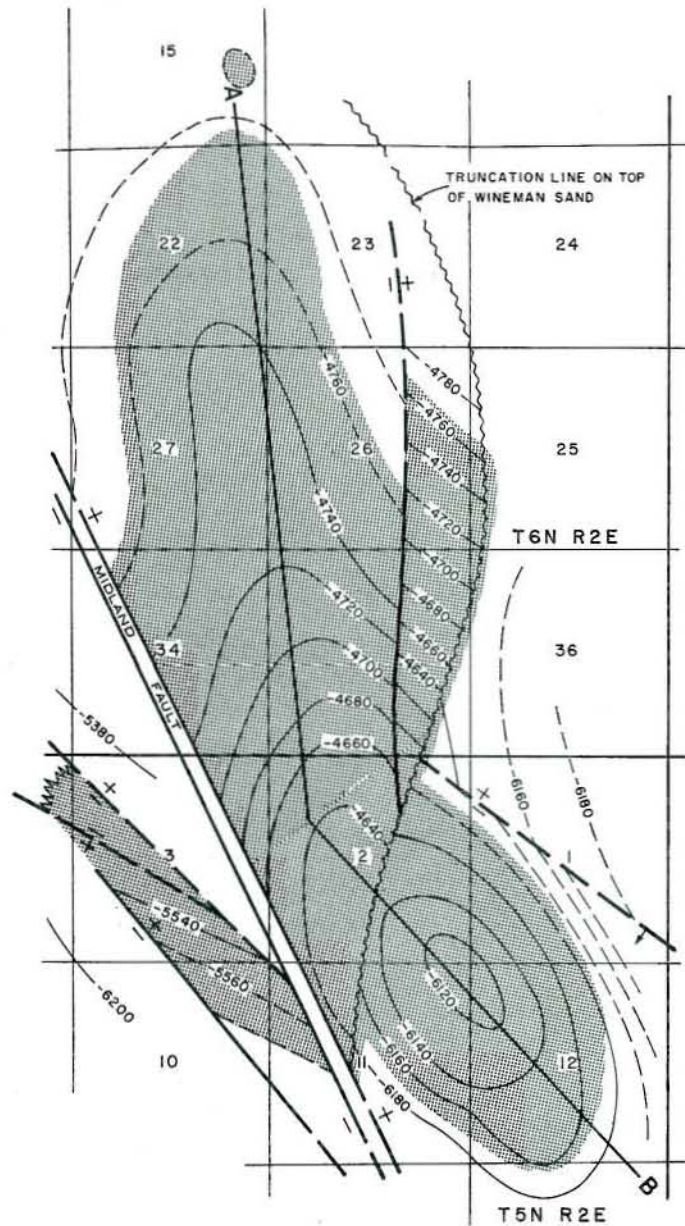
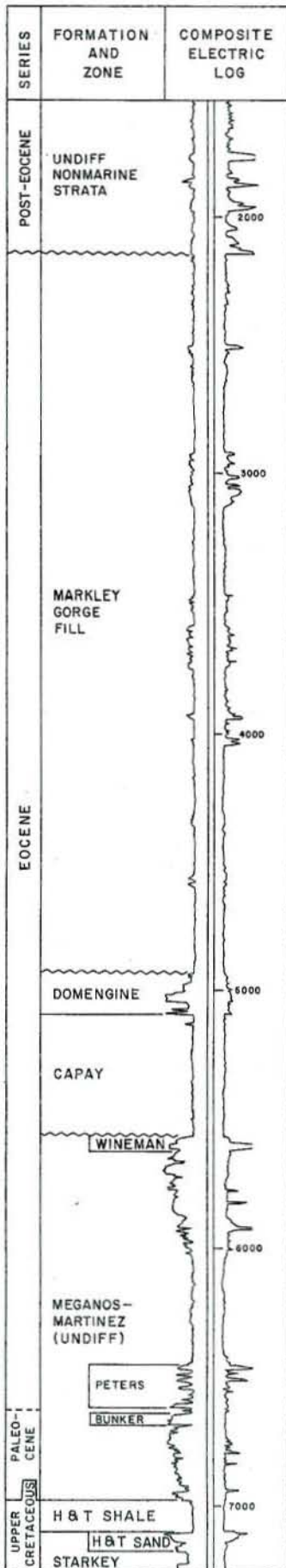
METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

REMARKS: Commercial gas deliveries began in November 1958. One well was completed in the Upper Cretaceous zone; it was abandoned in December 1962.

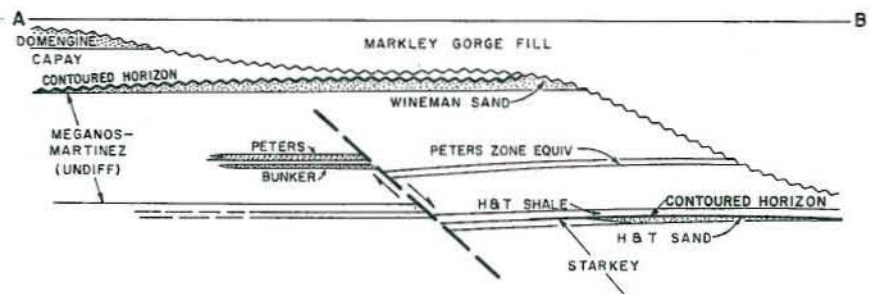
REFERENCES: Matthews, J.F. Jr., Los Medanos Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 1 (1963).



# MAINE PRAIRIE GAS FIELD



Contours west of truncation line are on top of Wineman sand;  
east of truncation line, on top of H and T sand



# CALIFORNIA DIVISION OF OIL AND GAS

MAINE PRAIRIE GAS FIELD

Solano County

LOCATION: 13 miles south of Davis

TYPE OF TRAP: Faulted anticline truncated by gorge

ELEVATION: 20

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Domengine	S.M. Reynolds, Oper. "Amerada-Brigantino" 1	Same as present	15 6N 2E	MD	2,560	1,600	1/4	Jul 1966
Wineman	Amerada Hess Corp. "WZU" 4	Amerada Petroleum Corp. "I. & L. Wineman" 1	26 6N 2E	MD	19,000	1,760	3/4	Mar 1945
(Unnamed)	Amerada Hess Corp. "Peters" 1	Amerada Petroleum Corp. "Peters" 1	10 5N 2E	MD	2,420	1,470	10/64	Jan 1960
Peters	Amerada Hess Corp. "Peters" 3	Amerada Petroleum Corp. "Peters" 3	3 5N 2E	MD	2,140	2,420	13/64	Jul 1956
Bunker	Amerada Hess Corp. "I. & L. Wineman" 2	Amerada Petroleum Corp. "I. & L. Wineman" 2	27 6N 2E	MD	*11,500	1,850	3/8	Oct 1951
H & T	Amerada Hess Corp. "H. & T." 2	Amerada Petroleum Corp. "H. & T." 2	2 5N 2E	MD	5,200	2,090	5/16	Dec 1951

Remarks: \* Initial production data are from casing tests made before the well was completed in the Wineman zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
E.C. Brown, Oper. "Signal-Hamberger" 1	Same	May 1970	36 6N 2E	MD	9,291	Winters	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Domengine	4,148	6	Eocene	Domengine	1,005	N.A.	1,790	IV
Wineman	4,740	40	Eocene	Meganos	1,020	350	2,135	IV
(Unnamed)	5,935	20	Eocene	Meganos	1,075	40	2,595	IV
Peters	6,440	90	Eo - Paleo	Meganos - Martinez (undiff)	1,065	1,000	2,880	IV
Bunker	5,740	25	Paleocene	Martinez	1,080	4	2,860	IV
H & T	6,160	25	Lt Cretaceous	Starkey	1,080	845	2,695	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
6,128,109	8,193	2,010	15	94,622,561	8,924,860	1971	43	28	2,270

SPACING ACT: Applies

BASE OF FRESH WATER: 2,700

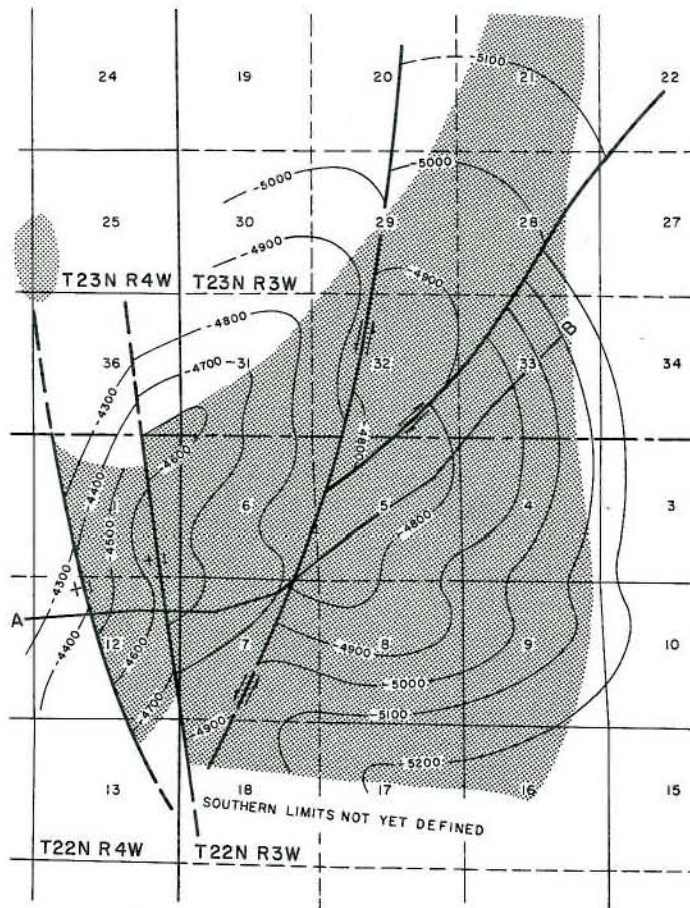
CURRENT CASING PROGRAM: 9 5/8" or 8 5/8" cem. 600; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Disposal into sumps at well sites.

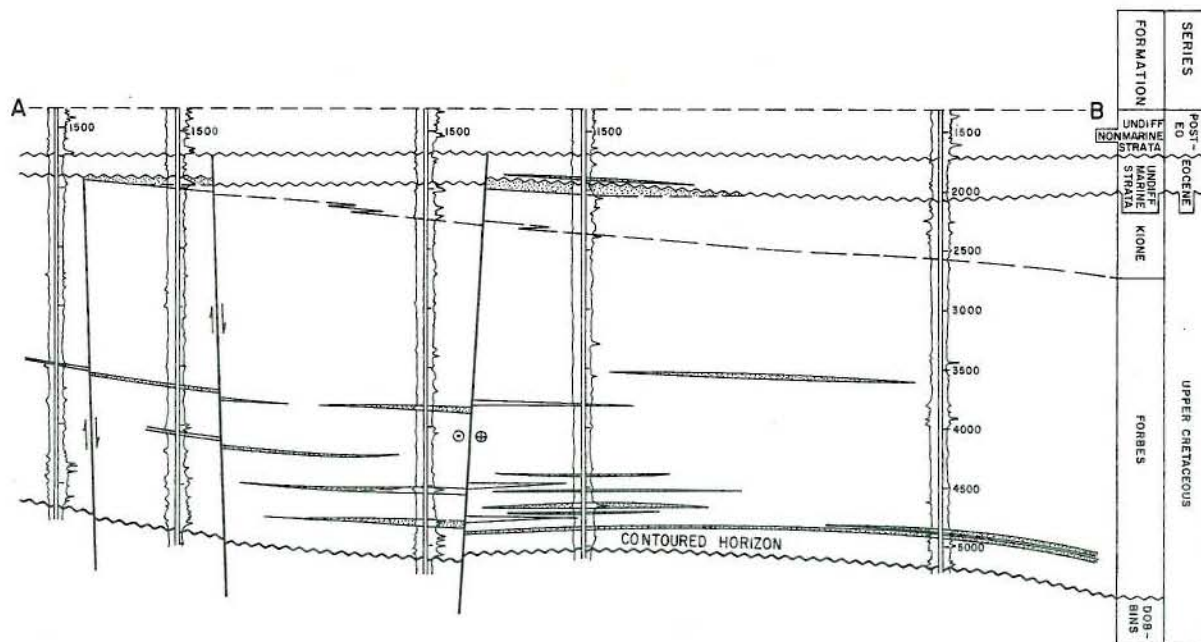
REMARKS: Formerly known as the Duck Slough Gas area. Commercial gas deliveries began in July 1947. 1972 condensate production 7,671 bbl.; cumulative condensate production 139,002 bbl.

REFERENCES:

# MALTON-BLACK BUTTE GAS FIELD



CONTOURS ON TOP OF DOBBINS SHALE





# CALIFORNIA DIVISION OF OIL AND GAS

MALTON-BLACK BUTTE GAS FIELD

Glenn and Tehama Counties

LOCATION: 3 miles northwest of Orland

TYPE OF TRAP: Lenticular sands on faulted nose

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed)	Exxon Corp. "H-T Malton Unit 9" 1	Humble Oil & Rfg. Co. "H-T Malton Unit 9" 1	5 22N 3W	MD	A 1,070	690	1/4	Jan 1969
Kione	Exxon Corp. "H-T Malton Unit 6" 1	Humble Oil & Rfg. Co. "H-T Malton Unit 6" 1	32 23N 3W	MD	1,500	730	12/64	Dec 1966
(Unnamed sand stringers)	Exxon Corp. "H-T Malton Unit 1" 1	Humble Oil & Rfg. Co. "Malton Operating Unit 1" 1	5 22N 3W	MD	B 1,740 1,250	1,480 750	17/64 3/8	Oct 1964

Remarks: A Commingled with Kione production.

B Dual completion of two intervals within the Forbes formation.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Bender Oil Operations "Bryan" 1	Same	Jul 1957	33 23N 3W	MD	6,692	Guinda	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	1,900	10	Eocene	Undiff. marine strata	C N.A.	C N.A.	760	IV
Kione	2,000	50	Lt Cretaceous	Kione	1,010	1,050	860	IV
(Unnamed sand stringers)	3,250 - 4,950	1 - 40 per stringer	Lt Cretaceous	Forbes	1,010	1,260	1,580 - 2,940	IV

C Commingled with Kione production

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
8,796,345	8,355	7,440	47	30,815,509	8,796,345	1972	70	50	7,440

SPACING ACT: Applies

BASE OF FRESH WATER: 1,500 - 1,800

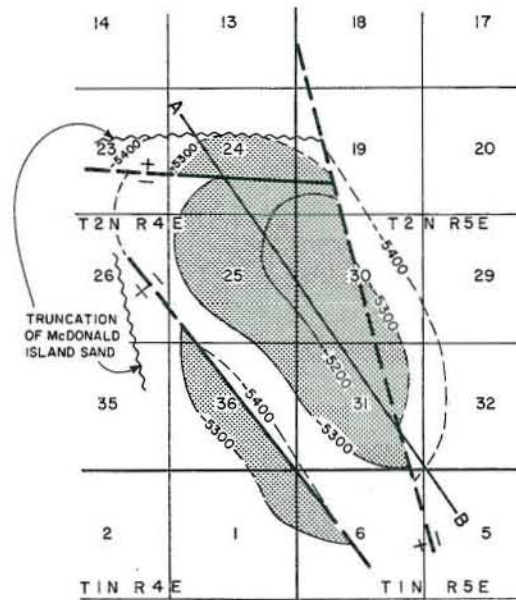
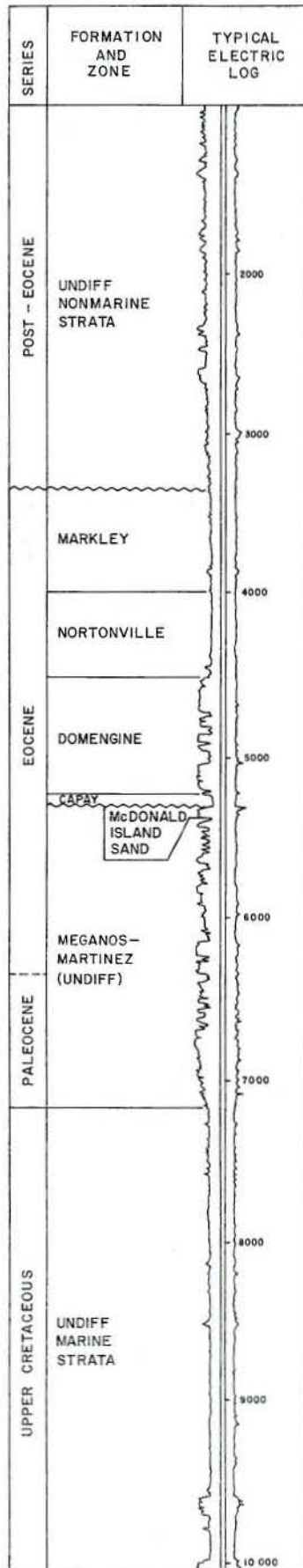
CURRENT CASING PROGRAM: 8 5/8" to 7" cem. 1,000; 5 1/2" or 4 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Most waste water hauled by truck to water disposal well at Willows-Beehive Bend Gas field; disposal of minor amounts into sumps.

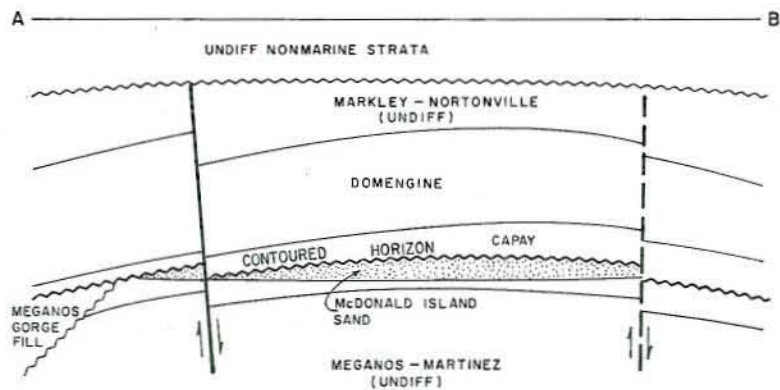
REMARKS: Commercial gas deliveries began in December 1966. Abnormally high pressure gradient at depth.

## REFERENCES:

# McDONALD ISLAND GAS FIELD



CONTOURS ON TOP OF McDONALD ISLAND SAND





# CALIFORNIA DIVISION OF OIL AND GAS

MCDONALD ISLAND GAS FIELD

San Joaquin County

LOCATION: 11 miles west of Stockton

TYPE OF TRAP: Faulted anticline

ELEVATION: 2

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
McDonald Island	Pacific Gas and Electric Co. "McDonald Island Farms" 1	Standard Oil Co. of Calif. "McDonald Island Farms" 1	25 2N 4E	MD	26,650	2,080	3/4	May 1936

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "McDonald Island" 1	Same	Sep 1963	24 2N 4E	MD	12,502	Undiff. marine	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
McDonald Island	5,220	45	Eocene	Meganos	960	690	2,350	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
15,062,989	0	1,440	19	166,465,396	15,062,989	1972	39	24	1,560

SPACING ACT: Applies

BASE OF FRESH WATER: 50 - 100

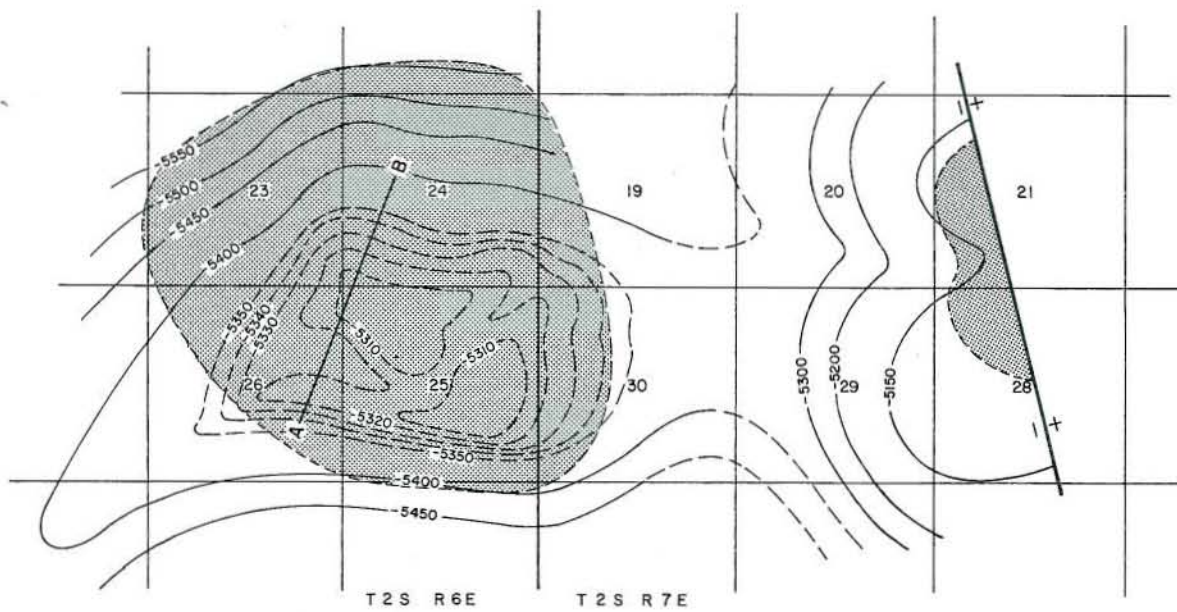
CURRENT CASING PROGRAM: 13 3/8" cem. 600 to 1,000; 8 5/8" cem. through zone.

METHOD OF WASTE DISPOSAL:

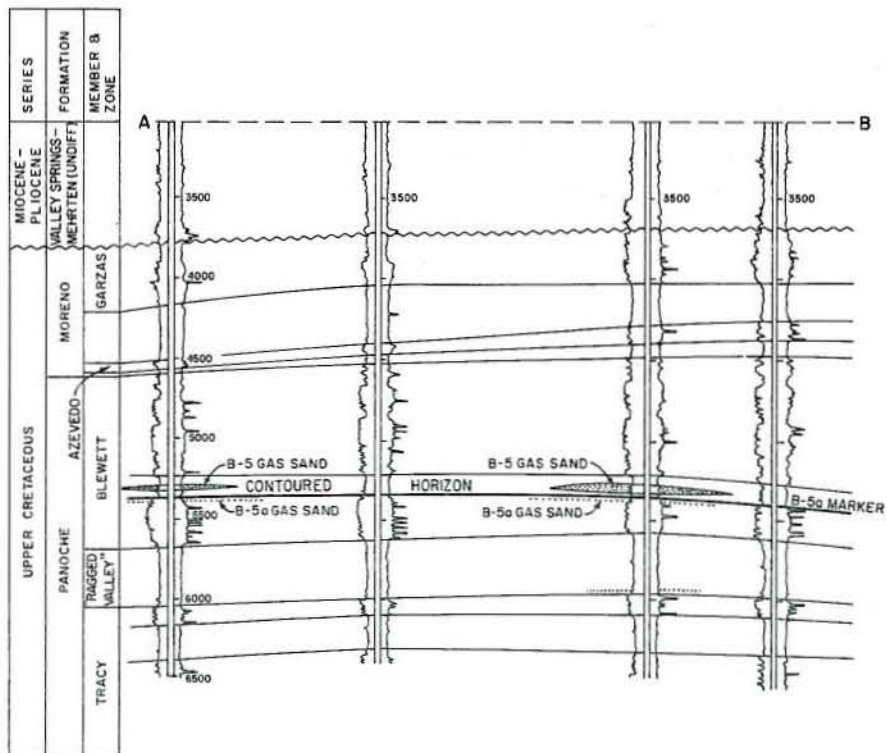
REMARKS: Commercial gas deliveries began in April 1937. Pacific Gas and Electric Co. acquired the field in December 1958 and converted it to gas storage in August 1959.

REFERENCES: Knox, G.L., McDonald Island Gas Field in Geologic Formations and Economic Development of the Oil and Gas Fields of Calif.: Calif. Div. of Mines Bull. 118, p. 588-590 (1943).  
 Railroad Commission of the State of Calif. and Calif. Div. of Oil and Gas, McDonald Gas Field in Estimate of the Natural Gas Reserves of the State of Calif. as of January 1, 1941: Case No. 4591, Special Study No. S-258, p. 242-244 (1942).

# McMULLIN RANCH GAS FIELD



CONTOURS ON B-5a ELECTRIC LOG MARKER



# CALIFORNIA DIVISION OF OIL AND GAS

McMULLIN RANCH GAS FIELD

San Joaquin County

LOCATION: 16 miles south of Stockton

TYPE OF TRAP: Anticline; faulted nose

ELEVATION: 30

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Blewett	Great Basins Pet. Co. "Signet-Perrin" 33-25	Same as present	25 2S 6E	MD	6,020	1,725	3/8	May 1960
Tracy	Great Basins Pet. Co. "Signet-Whiting" 66-23	Same as present	23 2S 6E	MD	2,740	775	3/8	May 1960
E	Great Basins Pet. Co. "McMullin" 5X	Great Basins Pet. Co. "Occidental-McMullin" 5-X	24 2S 6E	MD	5,200	2,260	5/16	Jun 1963

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Great Basins Pet. Co. "Occidental-Whiting" 66X-23	Same	May 1962	23 2S 6E	MD	9,988	Panoche	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Blewett	4,525	2 - 30 per sand stringer	Lt Cretaceous	Panoche	895	600	2,415	IV
Tracy	6,005	2 - 15 per sand stringer	Lt Cretaceous	Panoche	895	460	2,900	IV
E	7,200	3 - 30 per sand stringer	Lt Cretaceous	Panoche	870	700 - 1,360	3,625 - 4,120	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,394,620	14,187	2,430	21	56,629,400	10,790,606	1965	41	30	3,030

SPACING ACT. Applies

BASE OF FRESH WATER: Above 500

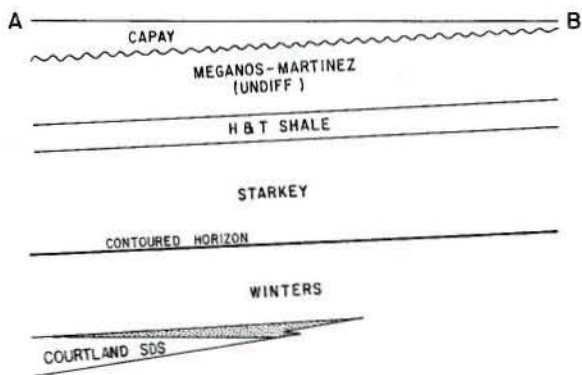
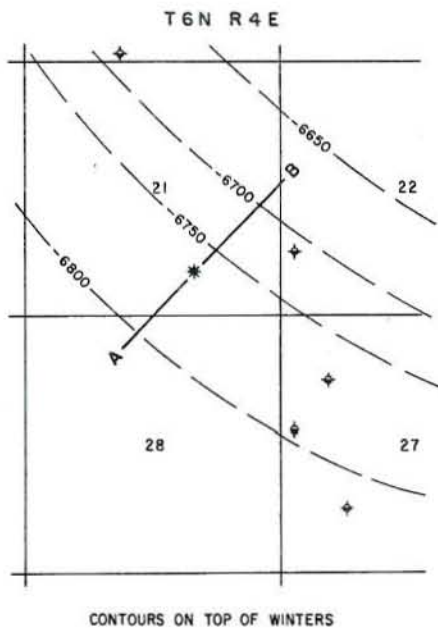
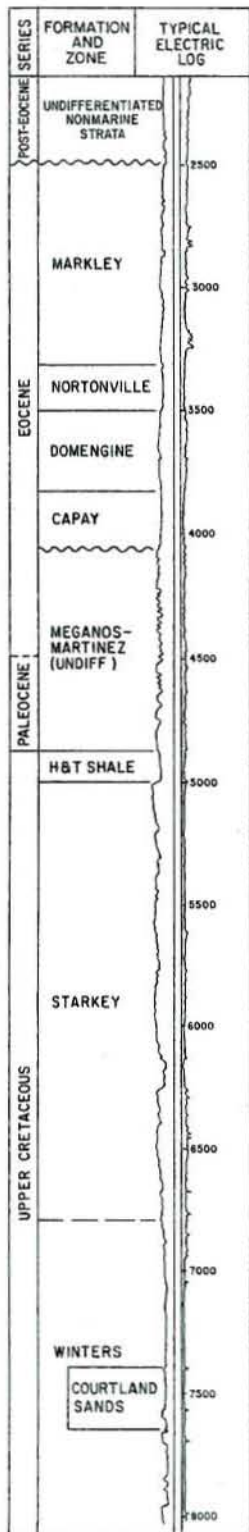
CURRENT CASING PROGRAM: 7" cem. 800; 4 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Surface disposal by evaporation from sumps at well locations.

REMARKS: Dual completions from the Blewett and Tracy zones are common. Gas production from sand stringers in the lower portion of the "Ragged Valley" is often commingled with Tracy zone production and considered part of the zone.

REFERENCES: Hunter, W.J., and G.W. Beecroft, McMullin Ranch Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 2 (1960).

# MERRITT ISLAND GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

MERRITT ISLAND GAS FIELD  
Sacramento and Yolo Counties

LOCATION: 5 miles south of Clarksburg

TYPE OF TRAP: Sand pinchout

ELEVATION: 9

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Courtland sands	Union Oil Co. of Calif. "Greene Unit" 2	Same	21 6N 4E	MD	6,000	2,600	16/64	Apr 1966

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "Greene Unit" 2	Same	Apr 1966	21 6N 4E	MD	8,000	Winters	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Courtland sands	7,400	15	Lt Cretaceous	Winters	930	180	3,450	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
223,834	19,421	80	1	624,765	388,931	1971	1	1	80

SPACING ACT: Applies

BASE OF FRESH WATER: 1,600

CURRENT CASING PROGRAM: 9 5/8" cem 800; 5 1/2" cem through zone and across base of fresh water sands.

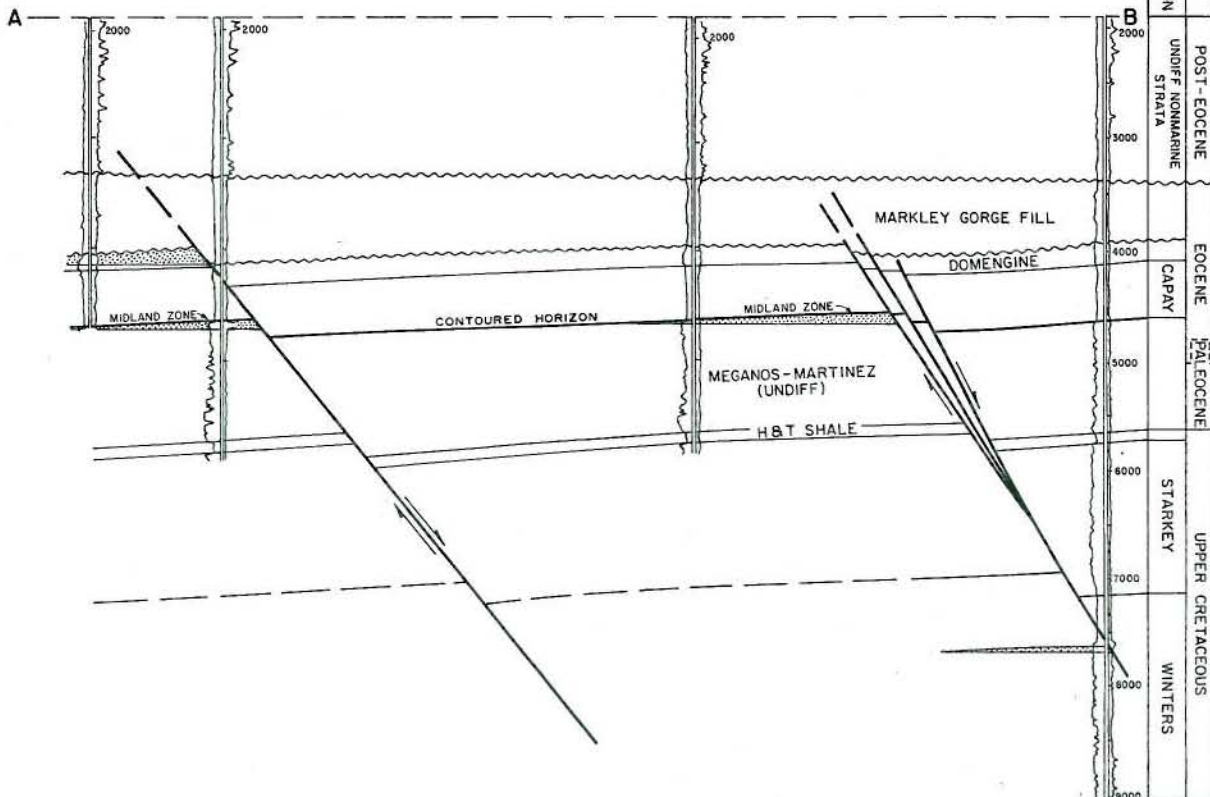
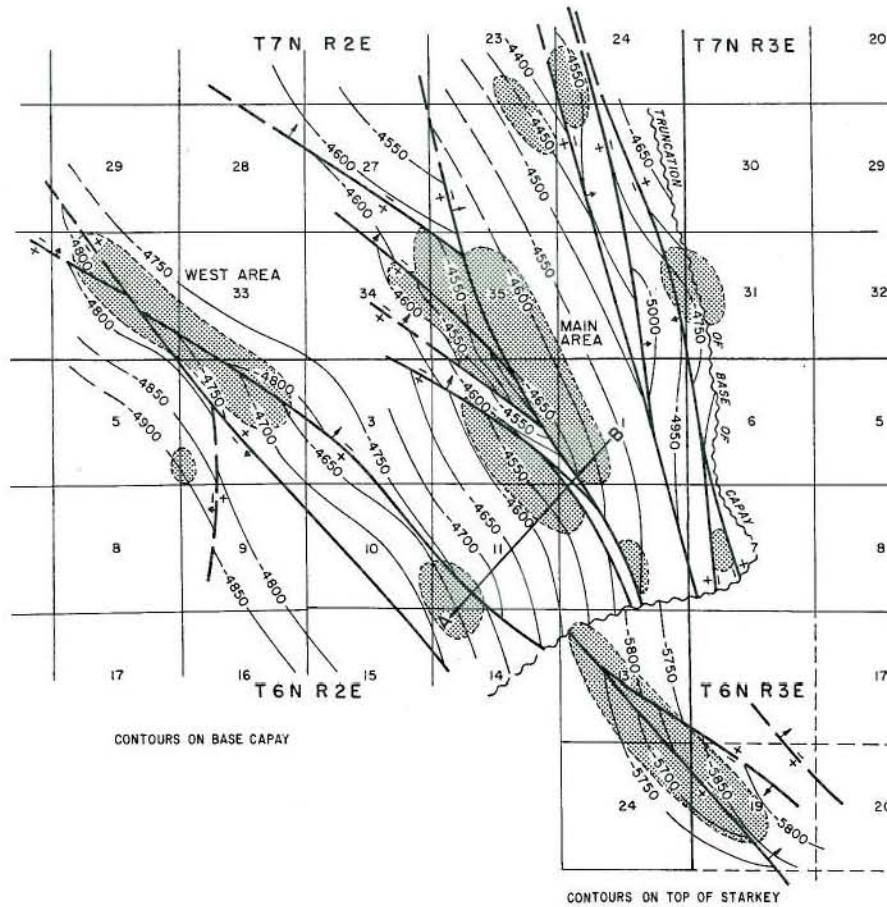
METHOD OF WASTE DISPOSAL: Water is trucked to disposal site.

REMARKS: Gas is sold locally to Newhall Land and Farming Co. for use in an alfalfa dryer.

REFERENCES:



# MILLAR GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

MILLAR GAS FIELD

Solano and Yolo Counties

LOCATION: 9 miles south of Davis

TYPE OF TRAP: See Areas

ELEVATION: 30

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Midland	Amerada Hess Corp. "Millar Comm." 1	Amerada Petroleum Corp. "Starkey Fee" 1	2 6N 2E	MD	22,570	1,715	3/8	Aug 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Feb 1943	2 6N 2E	MD	9,434	Winters	Late Cret

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
5,277,940	19,207	2,365	22	26,427,874	5,277,940	1972	81	40	2,725

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: Millar Gas field was originally known as Dixon Gas area. 1972 condensate production 11 bbl.; cumulative condensate production 90 bbl. (all from the West Area).

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

MILLAR GAS FIELD

Solano and Yolo Counties

MAIN AREA

LOCATION: See map sheet of Millar Gas Field

TYPE OF TRAP: Faulted homocline; faulted noses

ELEVATION: 30

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Nortonville	S.M. Reynolds, Opr. "Amerada-Santana" 1	Same as present	10 6N 2E	MD	*2,350	1,560	1/4	Sep 1965
Domengine	Amerada Hess Corp. "Millar Comm." 1	Amerada Petroleum Corp. "Starkey Fee" 1	2 6N 2E	MD	240	1,075	1/4	Jul 1960
Midland	Amerada Hess Corp. "Millar Comm." 1	Amerada Petroleum Corp. "Starkey Fee" 1	2 6N 2E	MD	22,570	1,715	3/8	Aug 1944
Winters	Signal Oil and Gas Co. "Brown-Amerada-Brigantino" 1	E.C. Brown, Opr. "Signal-Amerada-Brigantino" 1	13 6N 2E	MD	4,000	3,060	17/64	Sep 1969
Lower Winters	Hunnicut & Camp Drilling Co., Opr. "Tri-Valley Millar Unit 3" 1	Same as present	35 7N 2E	MD	510	1,160	5/16	Apr 1971

Remarks: \* Commingled production from Domengine and Nortonville zones.

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Amerada Hess Corp. "Millar Comm." 1	Amerada Petroleum Corp. "Starkey Fee" 1	Feb 1943	2 6N 2E	MD	9,434	Winters	Late Cret

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville	3,875	8	Eocene	Nortonville	990	N.A.	1,520	IV
Domengine	4,000	10	Eocene	Domengine	990	210	1,780	IV
Midland	4,585	40	Eocene	Meganos	965	400	2,075	IV
Winters	7,070 - 7,970	35	Lt Cretaceous	Winters	850	610	3,400 - 3,705	IV
Lower Winters	8,245	14	Lt Cretaceous	Winters	825	N.A.	3,795	IV

PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
4,741,398	18,975	1,925	19	24,869,977	4,741,398	1972	74	34	2,285

SPACING ACT: Applies

BASE OF FRESH WATER: 3,200

CURRENT CASING PROGRAM: 8 5/8" cem. 800; 5 1/2" or 4 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Disposal into sumps at well sites.

REMARKS: Commercial gas deliveries began in July 1947.

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

MILLAR GAS FIELD

Solano County

WEST AREA

LOCATION: See map sheet of Millar Gas Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 30

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Beam size (in.)	
Campbell Ranch	Amerada Hess Corp., Opr. "Campbell Ranch" 1	The Termo Co. "Amerada-Campbell" 1	4 6N 2E	MD	2,900	1,930	14/64	Oct 1967
Bunker	V.R. Smith, Opr. "AT & T" 3	Same as present	*29 7N 2E	MD	7,970	1,600	7/16	Nov 1972
Starkey	V.R. Smith, Opr. "AT & T" 2	Same as present	*29 7N 2E	MD	9,160	1,830	7/16	Oct 1972

Remarks: \* Well directionally drilled to Sec. 32, T. 7N., R. 2E.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
V.R. Smith, Opr. "Brady" 1	Same	Dec 1972	29 7N 2E	MD	9,110	Winters	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Campbell Ranch	5,290	40	Eo - Paleo	Meganos-Martinez	980	10	2,340	IV
Bunker	5,350	65	Paleocene	Meganos-Martinez	960	N.A.	2,400	IV
Starkey	5,665	75	Lt Cretaceous	Starkey	980	N.A.	2,555	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
536,542	232	440	3	1,557,897	536,542	1972	7	6	440

SPACING ACT: Applies

BASE OF FRESH WATER: 2,900

CURRENT CASING PROGRAM: 8 5/8" cem. 800; 5 1/2" or 4 1/2" cem. through zones and across base of fresh-water sands.

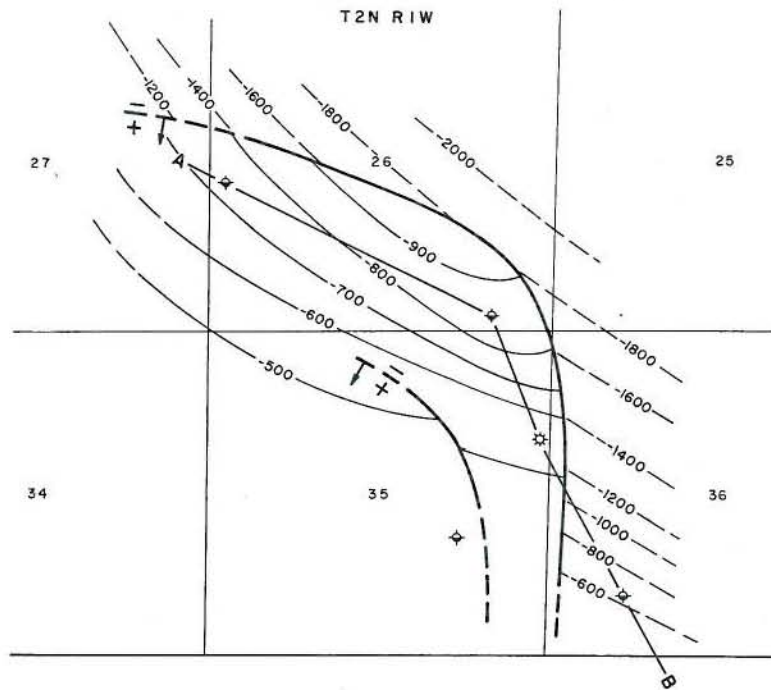
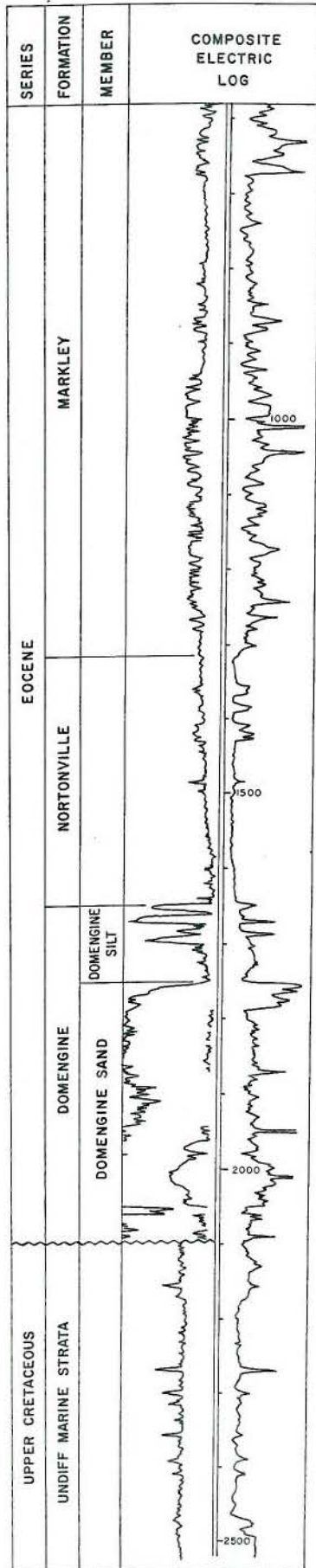
METHOD OF WASTE DISPOSAL: Disposal into sumps.

REMARKS: Commercial gas deliveries began in August 1968. 1972 condensate production 11 bbl.; cumulative condensate production 90 bbl.

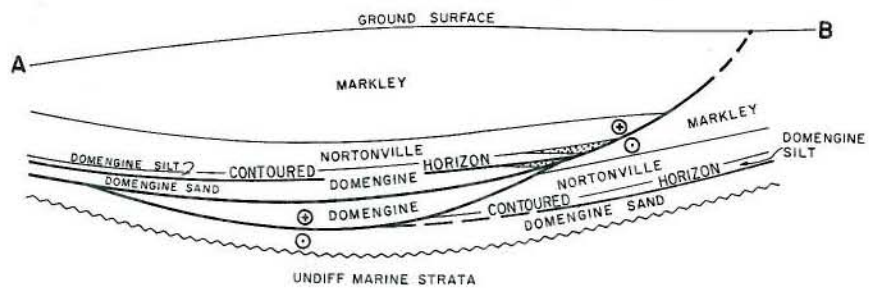
REFERENCES:



# MULLIGAN HILL GAS FIELD (Abandoned)



CONTOURS ON TOP OF DOMENGINE SAND  
SCALE: 1" = 3000 FT





## CALIFORNIA DIVISION OF OIL AND GAS

MULLIGAN HILL GAS FIELD (Abandoned)

Contra Costa County

LOCATION: 5 miles southwest of Pittsburg

TYPE OF TRAP: Faulted homocline

ELEVATION: 690 - 1,207

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Domengine silt	Occidental Petroleum Corp. "Keller Estate" 1	Occidental Petroleum Corp. "Keller Estate" 1	35 2N 1W	MD	1,040	300	1/2	Nov 1961
Domengine sand	Same as above	Same as above	35 2N 1W	MD				

Remarks: Commingled production from Domengine silt and Domengine sand.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Oct 1961	35 2N 1W	MD	4,965	G-2 zone (Goudkoff)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Domengine silt	1,640	5	Eocene	Domengine	985	N.A.	490	IV
Domengine sand	1,735	30	Eocene	Domengine		N.A.		IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbi)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	125,576	45,183	1967	5	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: Above 500

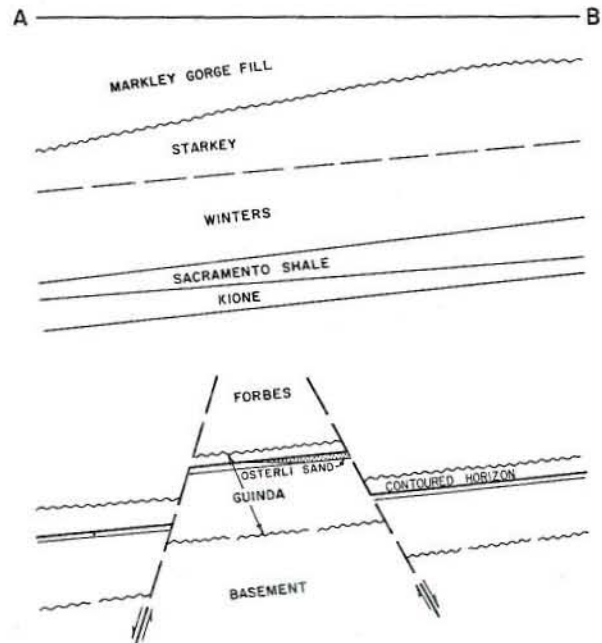
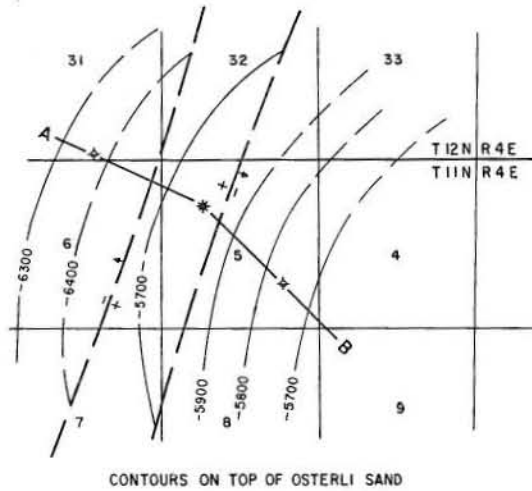
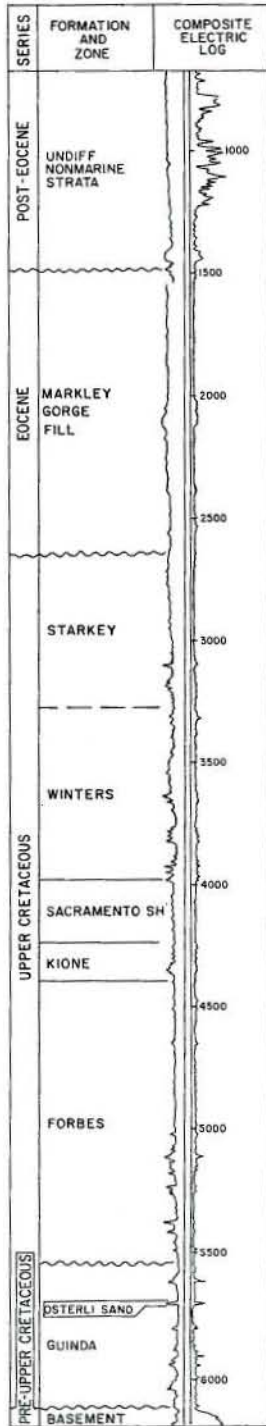
CURRENT CASING PROGRAM: 9 5/8" or 8 5/8" cem. 500; 5 1/2" or 4 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in January 1963. The field was abandoned in October 1968.

REFERENCES:

# NICOLAUS GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

NICOLAUS GAS FIELD

Sutter County

LOCATION: 4 miles northwest of Pleasant Grove

TYPE OF TRAP: Faulted nose

ELEVATION: 55

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Osterli	Delcalta International Corp. "Osterli" 1	Sacramento Oil and Gas Co. "Osterli" 1	S 11N 4E	MD	5,200	355	3/4	Jul 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Delcalta International Corp. "Osterli" 3	Bolsa Chica Oil Corp. "Osterli" 1	Mar 1962	31 12N 4E	MD	6,786	Basement	pre-Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Osterli	5,700	15	Lt. Cretaceous	Guinda	220	N.A.	2,525	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	160	0	0	0	--	3	1	160

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

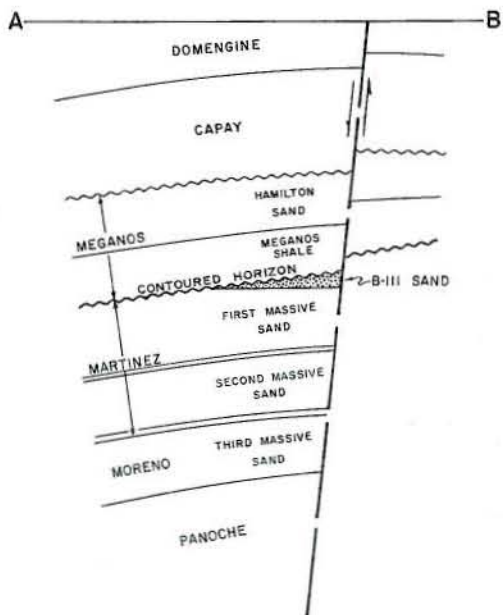
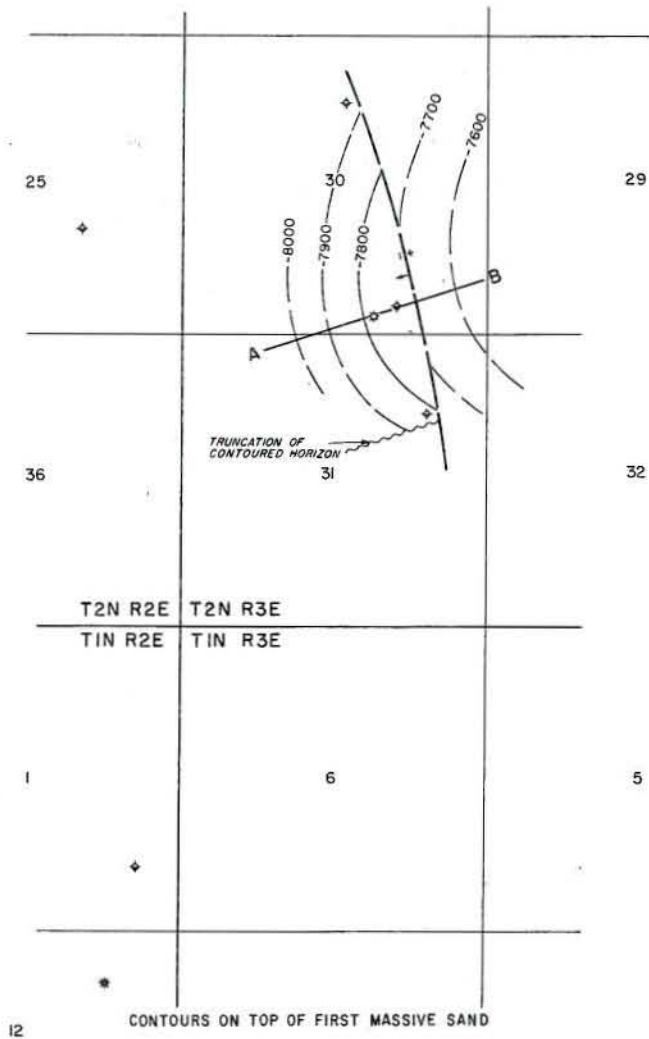
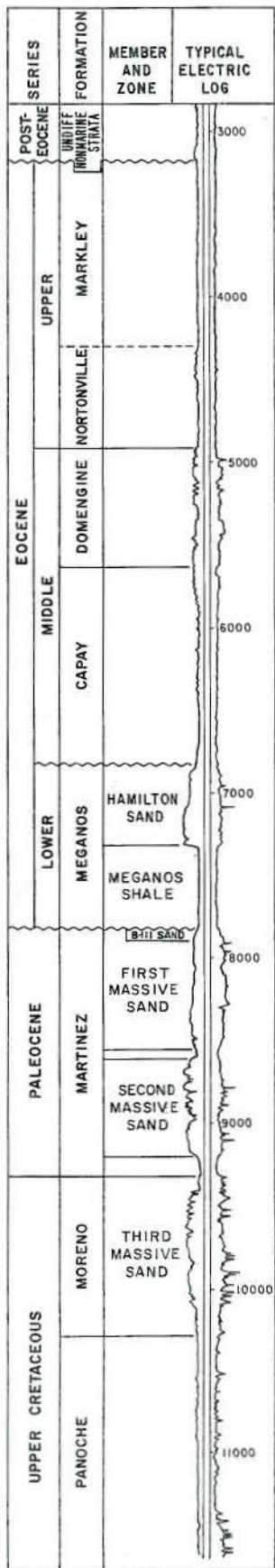
CURRENT CASING PROGRAM: 9 5/8" cem. 1,500; 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Gas is 78.0% nitrogen and 22.0% methane. Field has never produced commercially, and the only completed well is shut in.

REFERENCES:

## OAKLEY GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

OAKLEY GAS FIELD  
Contra Costa County

LOCATION: 2 miles southeast of Oakley

TYPE OF TRAP: Faulted nose with truncation by gorge

ELEVATION: 20

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
B-III	Occidental Petroleum Corp. "Machado" 1	Same as present	30 2N 3E	MD	3,162	1,226	5/8	Sep 1962
2nd Massive (?)	Continental Oil Co. "Conoco-Lane 12" 1	Same as present	12 1N 2E	MD	1,050	3,225	27/64	Nov 1972

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Machado" 1	Same	Aug 1962	30 2N 3E	MD	11,607	Panoche	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
B-III	7,822	60	Paleocene	Martinez	1,060	410	3,080	IV
2nd Massive (?)	7,447	45	Paleocene	Martinez	1,062	1,170	3,515	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	15,108	15,108	1967	5	2	120

SPACING ACT: Applies

BASE OF FRESH WATER: Above 800

CURRENT CASING PROGRAM: 10 3/4" to 8 5/8" cem. 800 to 1,000; 5 1/2" cem. through zones.

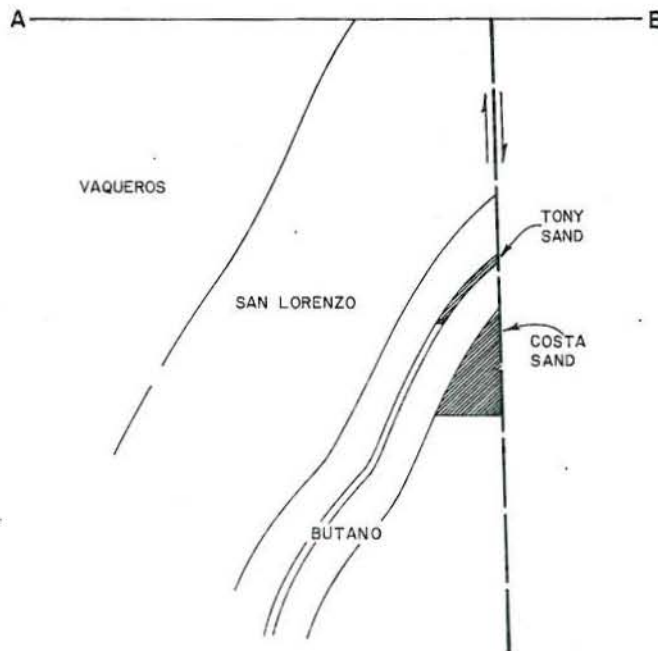
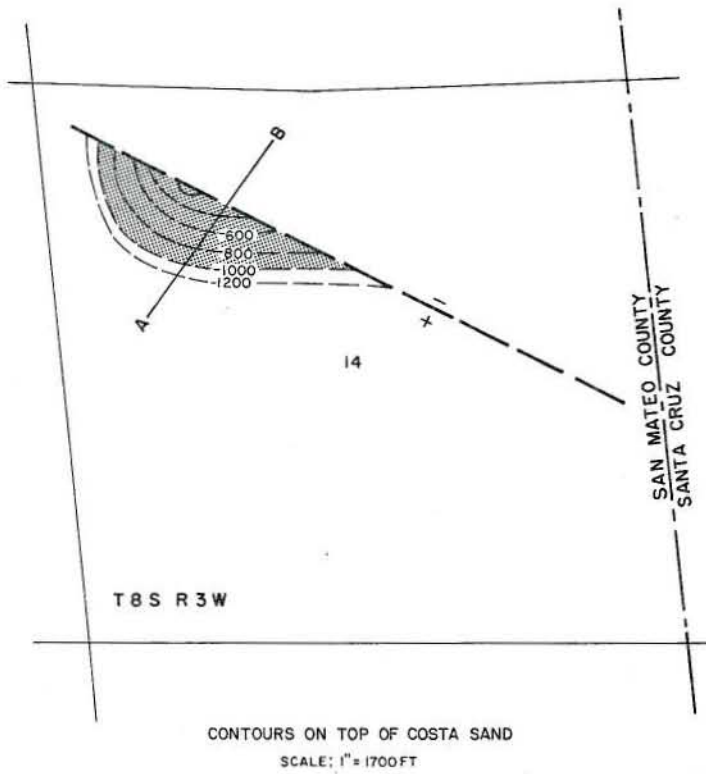
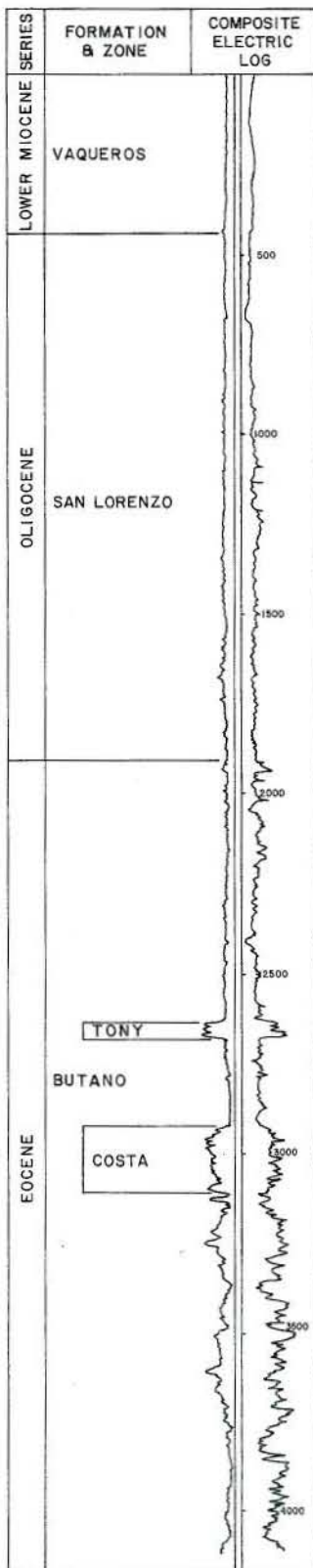
METHOD OF WASTE DISPOSAL:

REMARKS: The field was abandoned in April 1968 and reactivated in November 1972.

REFERENCES:



## OIL CREEK OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

OIL CREEK OIL FIELD

San Mateo County

LOCATION: 20 miles north of Santa Cruz

TYPE OF TRAP: Faulted nose

ELEVATION: 1,240

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tony Costa	Ivan J. Vojvoda, Operator "Costa" 2	Union Oil Co. of Calif. "Richfield-Costa" 2	14 8S 3W	MD	*24	474	Mar 1956
	Ivan J. Vojvoda, Operator "Costa" 1	Union Oil Co. of Calif. "Richfield-Costa" 1	14 8S 3W	MD	107	42	Oct 1955

Remarks: \*Commingled with production from Costa zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "Richfield-Costa" 4	Same	Apr 1956	14 8S 3W	MD	5,112	Butano	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tony Costa	1,860	55	Eocene	Butano	41	1,480	II
	2,090	120	Eocene	Butano	41	1,480	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,298	106	508	20	1	81,909	68,350	14,744	1956	6	2	20

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
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SPACING ACT: Applies

BASE OF FRESH WATER: None

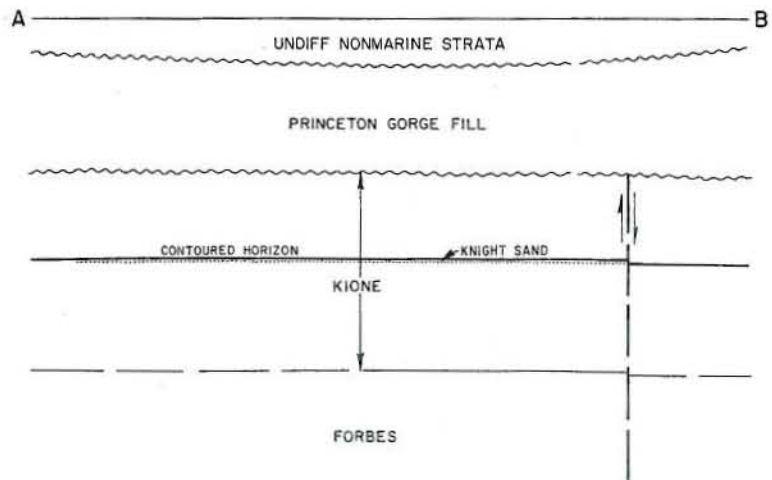
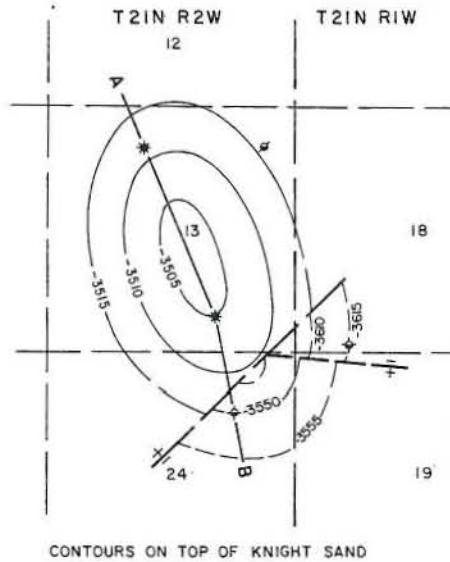
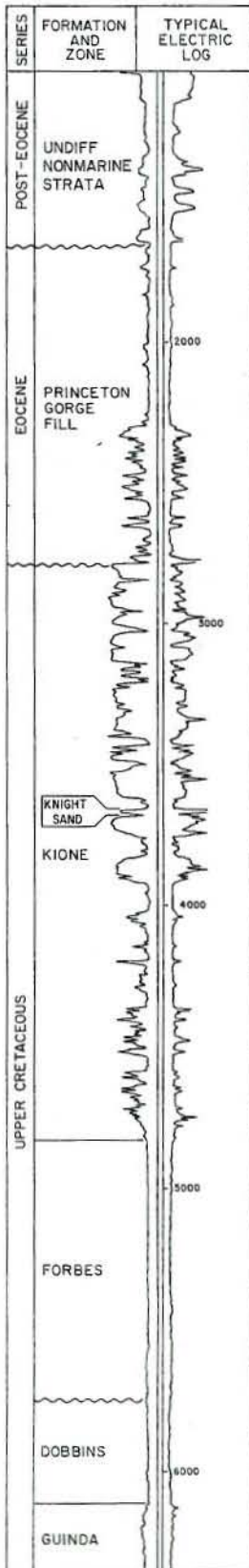
CURRENT CASING PROGRAM: 11 3/4" or 10 3/4" cem. 250 ; 7" combination string landed through oil zone and cemented through ports above the zone.

METHOD OF WASTE DISPOSAL: Waste water hauled by truck to disposal site.

REMARKS:

REFERENCES:

# ORD BEND GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

ORD BEND GAS FIELD  
(Field)  
Glenn County  
(County)

LOCATION: 11 miles southwest of Chico

ELEVATION: 155

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Knight	The Superior Oil Co. "Knight" 1	Same	13 21N 2W	MD	5,040	1,075	24/64	Aug. 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "Knight" 1	Same	July 1943	13 21N 2W	MD	6,346	Guinda	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Knight	3,660	13	Late Cretaceous	Kione	910	15,400	1,615	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
59,790	25,130	240	1	9,828,552	1,034,566	1947	3	2	300

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200

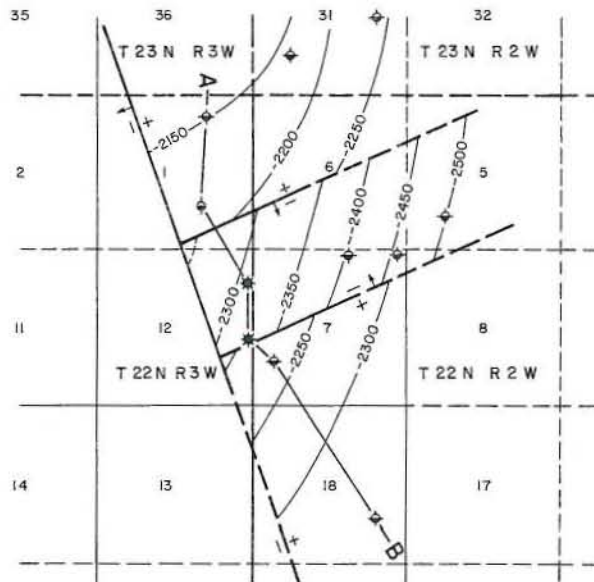
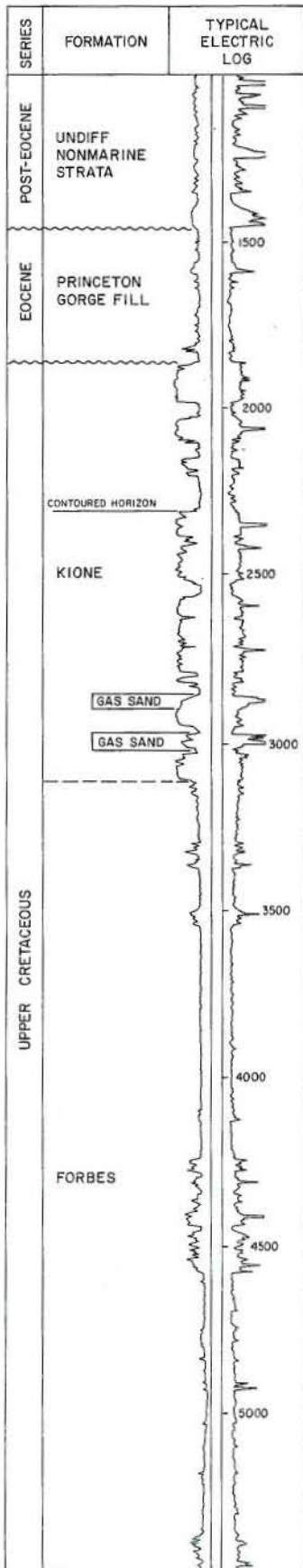
CURRENT CASING PROGRAM: 9 5/8" cem. 500, 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in January 1945.

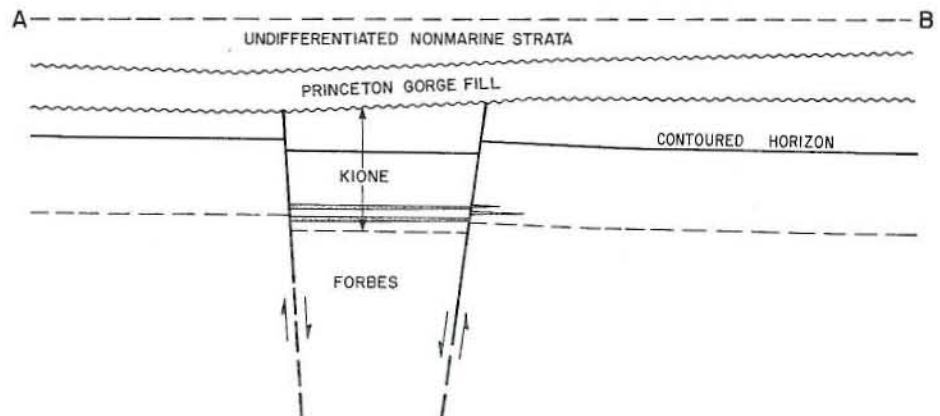
REFERENCES: None

January 1978

# ORLAND GAS FIELD



CONTOURS ON KIONE MARKER





CALIFORNIA DIVISION OF OIL AND GAS

ORLAND GAS FIELD (Field)  
Glenn County (County)

LOCATION: 3 miles northeast of Orland

ELEVATION: 220

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Oxy Petroleum, Inc. "Morrissey" 1-12	Same	12 22N 3W	MD	1,300	1,150	16/64	May 1975
(Unnamed)	Same	Same	12 22N 3W	MD	1,160	1,260	16/64	May 1975

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Oxy Petroleum, Inc. "Morrissey" 1-12	Same	Apr. 1975	12 22N 3W	MD	5,711	Forbes	Late Cret.

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,880	10	Late Cretaceous	Klone	925	84,000	1,350	III B 2M
(Unnamed)	3,010	20	Late Cretaceous	Klone	928	N.A.	1,400	III B 2M

PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	100	0	0	See Remarks	--	4	2	100

SPACING ACT: Applies

BASE OF FRESH WATER: 1,700

CURRENT CASING PROGRAM: 8 5/8" cem. 800; 5 1/2" cem. through zone and across base of freshwater sands.

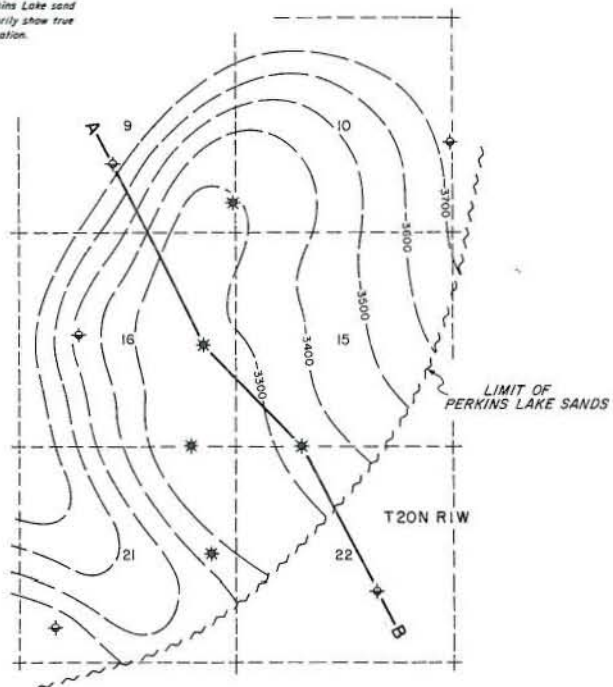
REMARKS: Commercial gas deliveries have not yet begun.

REFERENCES: None

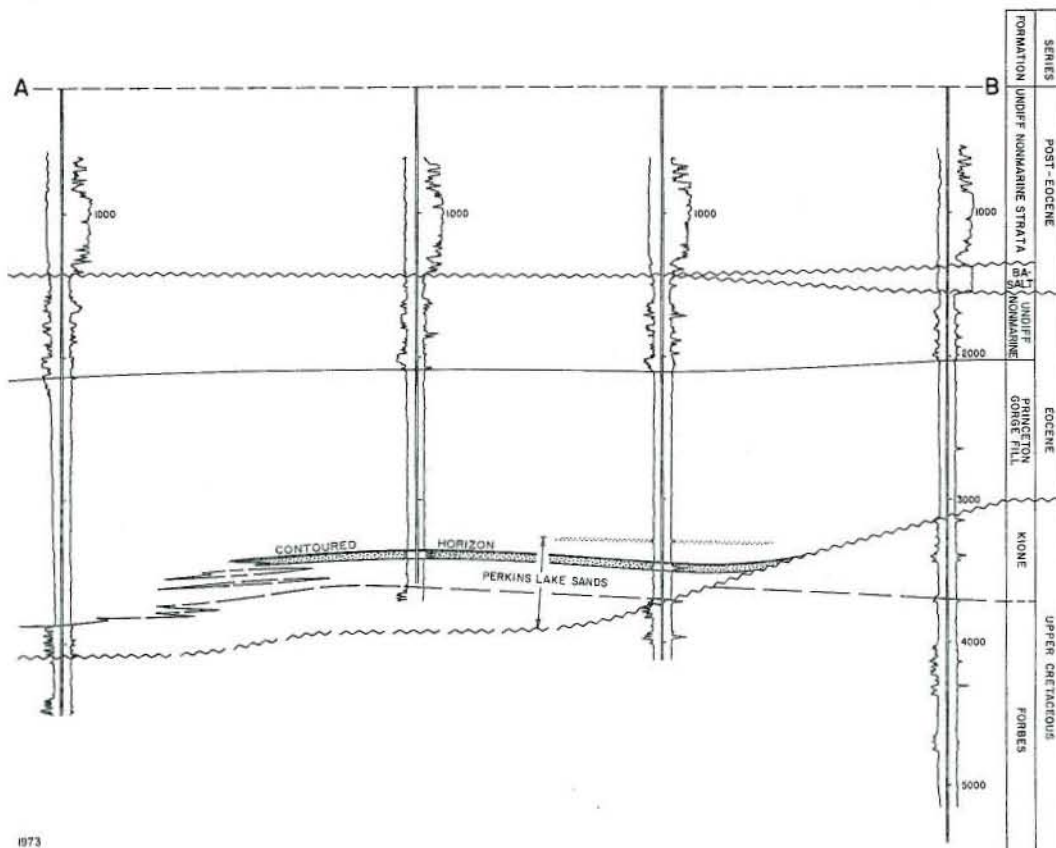
January 1978

# PERKINS LAKE GAS FIELD

NOTE: Contours are on first significant occurrence of Perkins Lake sand and do not necessarily show true structural configuration.



CONTOURS ON TOP OF PERKINS LAKE SANDS



# CALIFORNIA DIVISION OF OIL AND GAS

PERKINS LAKE GAS FIELD

Butte County

LOCATION: 12 miles northeast of Willows

TYPE OF TRAP: Lenticular sands and overlap

ELEVATION: 115

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Perkins Lake	Exxon Corp. "Parrott Investment Company" B-1	Humble Oil & Refining Co. "Parrott Investment Company" B-1	16 20N 1W	MD	4,060	975	3/8	Sep 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "Parrott Investment Co." B-6	Humble Oil and Ref. Co. "Parrott Investment Co." B-6	May 1956	16 20N 1W	MD	6,500	Guinda	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Perkins Lake	3,400	10 - 130 per sand bed	Eocene	Princeton Gorge Fill	950	250	1,575 - 1,600	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,004,872	0	440	4	29,952,882	2,841,396	1960	10	5	440

SPACING ACT: Applies

BASE OF FRESH WATER: 1,500

CURRENT CASING PROGRAM: 7" cem. 500; 4 1/2" cem. through zones and across base of fresh-water sands.

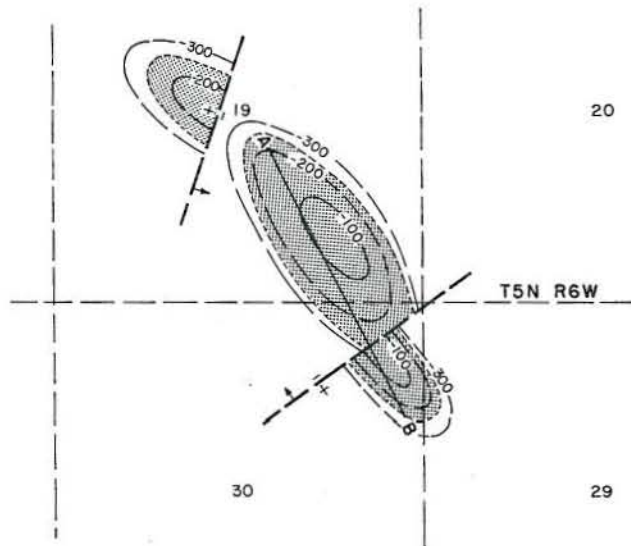
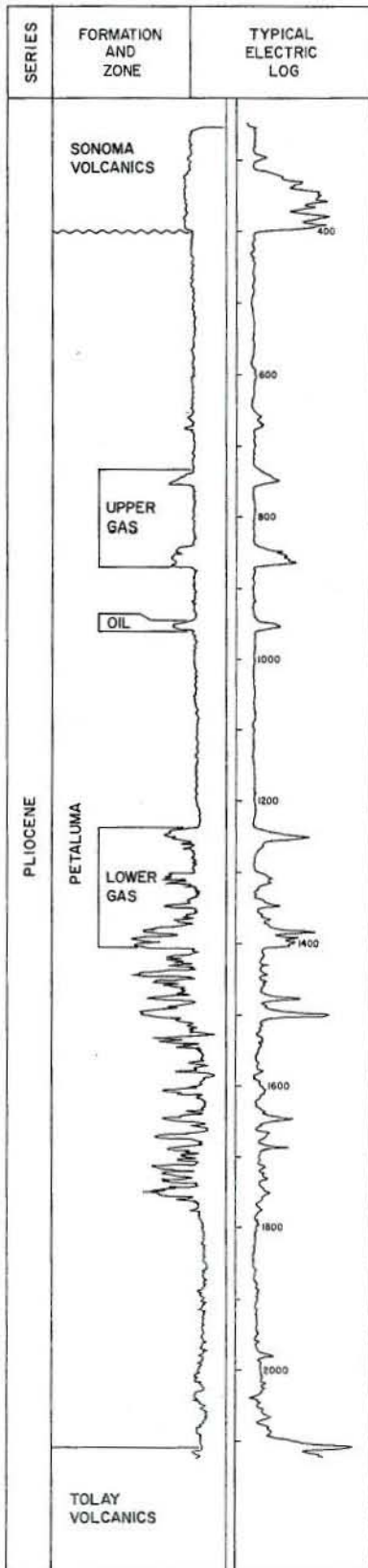
METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in December 1965.

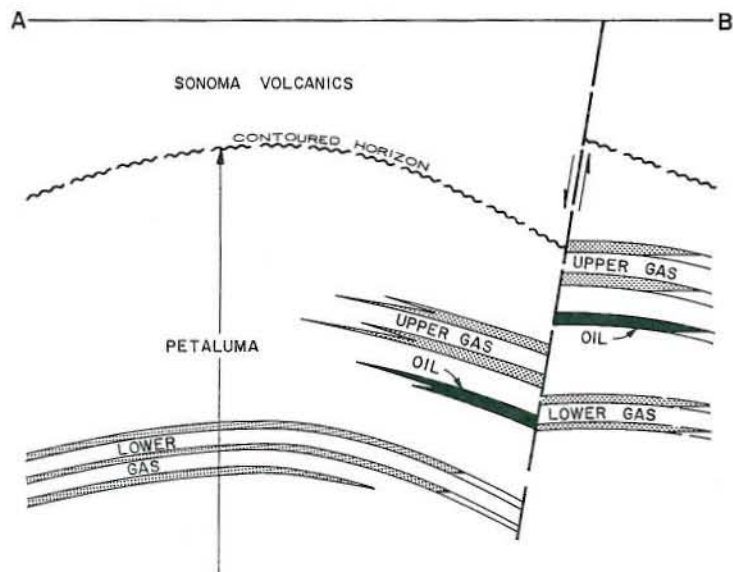
REFERENCES: Harding, T.P., Perkins Lake Gas Field, Calif.: Calif. Div. of Mines Bull. 181, p. 103-105 (1962).

Lorshbough, A.L., Perkins Lake Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 57, No. 1 (1971).

# PETALUMA OIL FIELD



CONTOURS ON TOP OF PETALUMA  
SCALE 1" = ± 3000 FT



## CALIFORNIA DIVISION OF OIL AND GAS

PETALUMA OIL FIELD

Sonoma County

LOCATION: 4 miles east of Petaluma

TYPE OF TRAP: Faulted anticline; lenticular sands

ELEVATION: 150 - 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Gas	B.C.R. & F. Oil & Gas Corp. "Golden Gate" 3	Golden Gate Gas & Oil Dev. Co. "Golden Gate" 3	30 5N 6W	MD	0	1,000	*May 1958
Oil	Herbert N. Witt & Assoc. No. 2	Herbert N. Witt No. 2	19 5N 6W	MD	12	0	May 1926
Lower Gas	B.C.R. & F. Oil & Gas Corp. "Petaluma Community 5" 1	Trico Oil & Gas Co. "Miller" 1	30 5N 6W	MD	0	3,037	Aug 1941

Remarks: \* Drilled and suspended in 1953; reworked in 1958.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Murphy" 1	Shell Co. of Calif. "Murphy" 1	Jun 1926	19 5N 6W	MD	6,385	Franciscan (?)	late Meso

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Gas	670	20	Pliocene	Petaluma	1,010	270	IV
Oil	920	25	Pliocene	Petaluma	20	N.A.	IV
Lower Gas	1,240	20	Pliocene	Petaluma	1,010 - 1,170	270	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	5	0	13,157	0	1,508	1951	12	2	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: 100

CURRENT CASING PROGRAM: 10 3/4" to 9 5/8" cem. 200; 5 1/2" to 4 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Surface disposal of waste water.

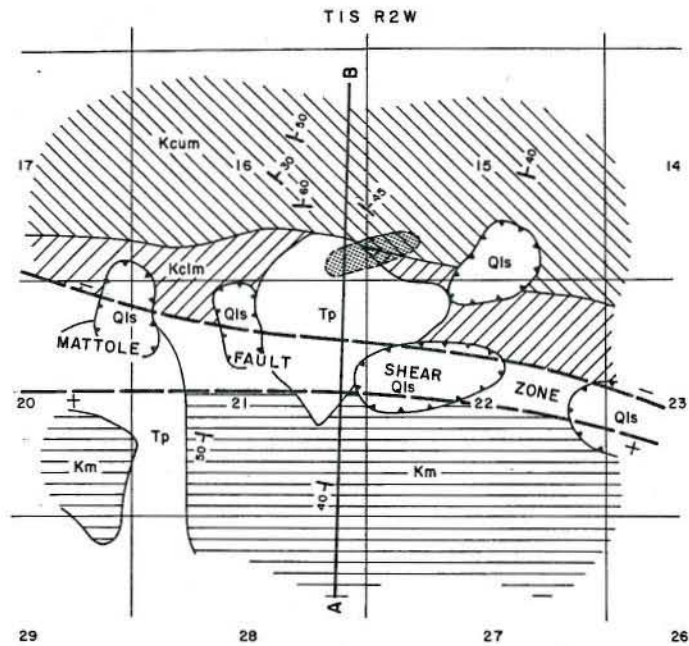
REMARKS: 1972 dry gas production, 4,044 Mcf from 4 producing wells; cumulative dry gas production 1,118,869 Mcf. 18 wells were drilled for dry gas and 9 wells were completed. 1972 proved dry gas acreage, 80; maximum proved dry gas acreage, 95. Commercial gas deliveries began in August 1942. Peak production year was 1956 with 136,004 Mcf.

REFERENCES: Johnson, F.A., Petaluma Region in Geol. Formations &amp; Economic Dev. of the Oil and Gas Fields of Calif: Calif. Div. of Mines Bull. 118, p. 622-627 (1943).



# PETROLIA OIL FIELD (Abandoned)

SERIES	FORMATION AND MEMBER	THICKNESS (FEET)
HOLOCENE	LANDSLIDE (Qls)	0 to 30
UPPER MIOCENE	PULLEN (Tp)	0 to 100
CRETACEOUS	UPPER MEMBER (Kcum)	±7000
	LOWER MEMBER (Kclm)	
	MATTOLE (Km)	±5000

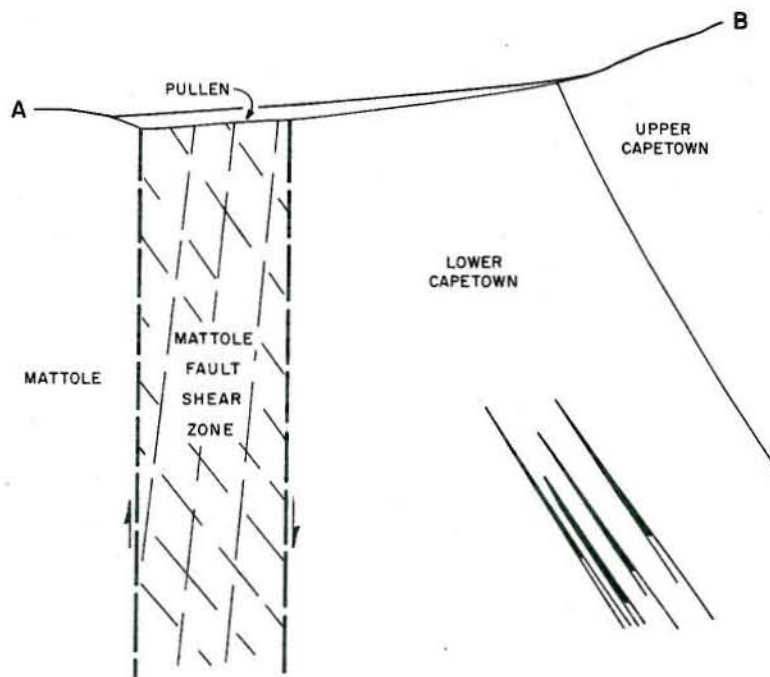


$\frac{1}{40}$  indicates strike and dip of strata

landslide contact

MAP AND CROSS SECTION BASED UPON DATA BY A T ANDERSON, CONSULTANT, AND MODIFIED BY THE DIVISION OF OIL AND GAS.

SERIES	FORMATION	MEMBER AND ZONE	TYPICAL ELECTRIC LOG
CRETACEOUS	CAPE TOWN	LOWER MEMBER	



## CALIFORNIA DIVISION OF OIL AND GAS

PETROLIA OIL FIELD (Abandoned)

Humboldt County

LOCATION: 30 miles south of Eureka

TYPE OF TRAP: Sand pinchouts on homocline

ELEVATION: 800 - 1,400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
(Unnamed)	West Coast Oil Corp. "West Coast" 1	Same as present	16 1S 2W	H	30	N.A.	Oct 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Bo-Peep Eureka Oil Co. "Bo-Peep" 1	Same	Sep 1965	21 1S 2W	H	3,281	N.A.	Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
(Unnamed)	1,570	90	Cretaceous	Capetown	46	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	350	0	140	1954	10	2	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 40

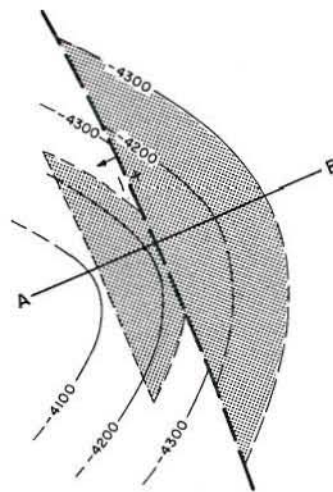
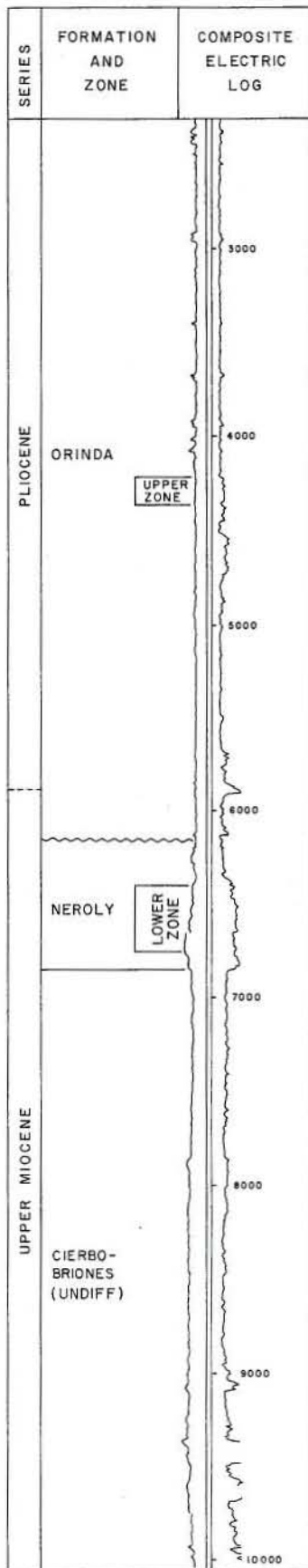
CURRENT CASING PROGRAM: 10 3/4" cem. 500; 7" cem. through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: This field is about four miles northwest of California's first oil production (circa 1865).

REFERENCES:

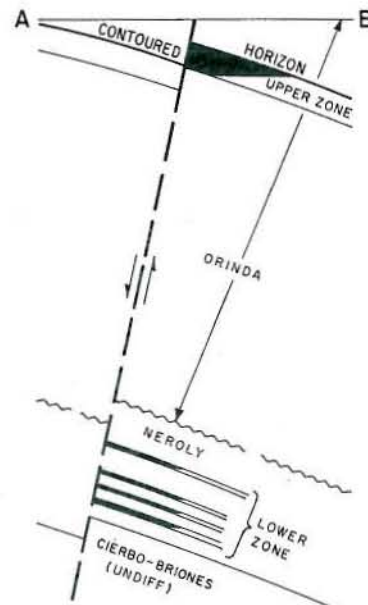
# PINOLE POINT OIL FIELD



T2N R4W

SCALE 1" = 560'

CONTOURS ON TOP OF UPPER PRODUCING ZONE



CALIFORNIA DIVISION OF OIL AND GAS

PINOLE POINT OIL FIELD

Contra Costa County

LOCATION: 3 miles west of Pinole

TYPE OF TRAP: Faulted nose

ELEVATION: 30

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper	Standard Oil Co. of Calif. "Bethlehem" 2-R	Same as present	19 2N 4W	MD	6	N.A.	Dec 1969
Lower	Bethlehem Steel Corp. "Bethlehem" 1	Standard Oil Co. of Calif. "Bethlehem" 1	19 2N 4W	MD	112	299	Jun 1969

Remarks: Production from the Upper zone was not commercial. Well No. "Bethlehem" 2-R was abandoned in February 1972 after having been shut in since December 1969.

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Bethlehem Steel Corp. "Bethlehem" 1	Standard Oil Co. of Calif. "Bethlehem" 1	Jan 1969	19 2N 4W	MD	9,997	Briones	late Mio

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper	4,350	75	Pliocene	Orinda	11	N.A.	IV
Lower	6,400	70	late Miocene	Neroly	41	851	IV

PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,668	5	1,700	10	1	10,007	31,520	5,575	1969	2	2	20

STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 200

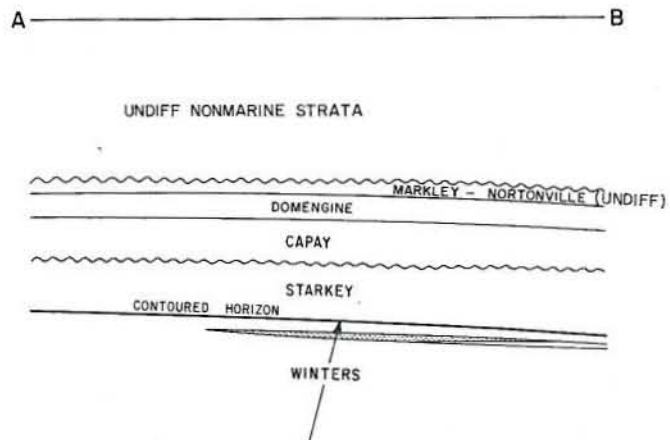
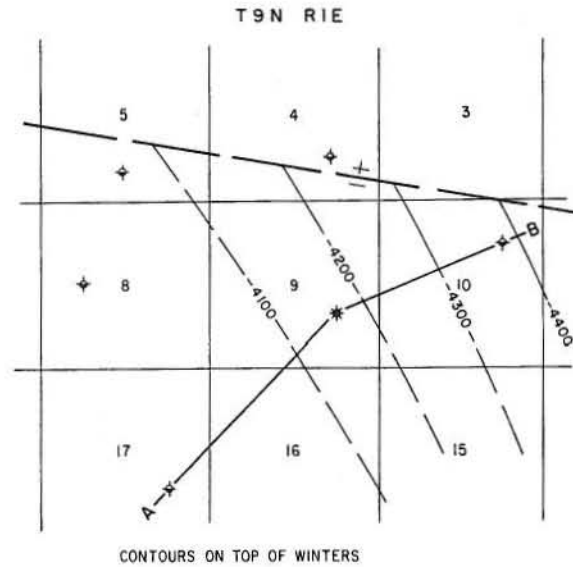
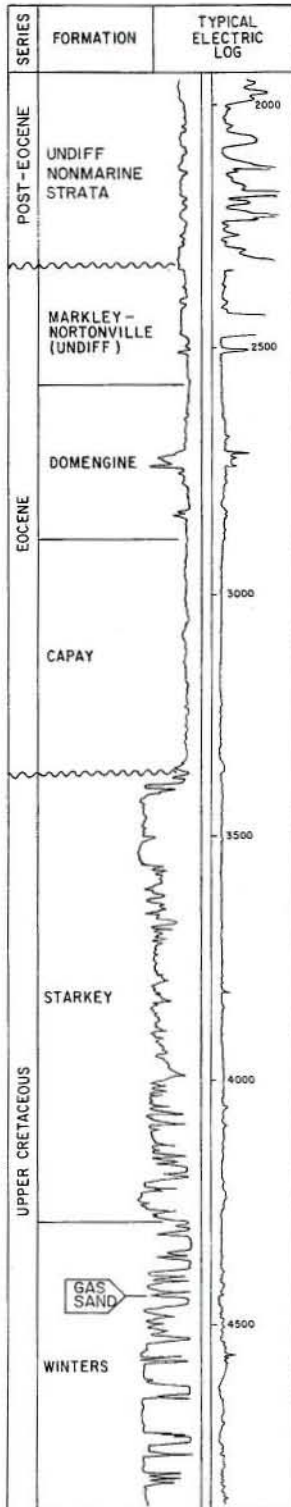
CURRENT CASING PROGRAM: 9 5/8" cem. 1,500; 5 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Surface disposal of waste water.

REMARKS:

REFERENCES:

# PLAINFIELD GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

PLAINFIELD GAS FIELD

Yolo County

LOCATION: 5 miles southwest of Woodland

TYPE OF TRAP: Sand pinchout on faulted homocline

ELEVATION: 97

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed)	Supreme Oil and Gas Corp. "Supreme-Bell" 1	Supreme Oil and Gas Corp. "R.M. Bell Community" 1	9 9N 1E	MD	782	920	3/16	Sep 1967

Remarks: The well was originally drilled and abandoned by D.C. Basolo, Jr.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	D.C. Basolo, Jr. "R.M. Bell Community" 1	Sep 1960	9 9N 1E	MD	5,070	Winters	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	4,430	4	Lt Cretaceous	Winters	915	N.A.	1,585	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	0	--	1	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

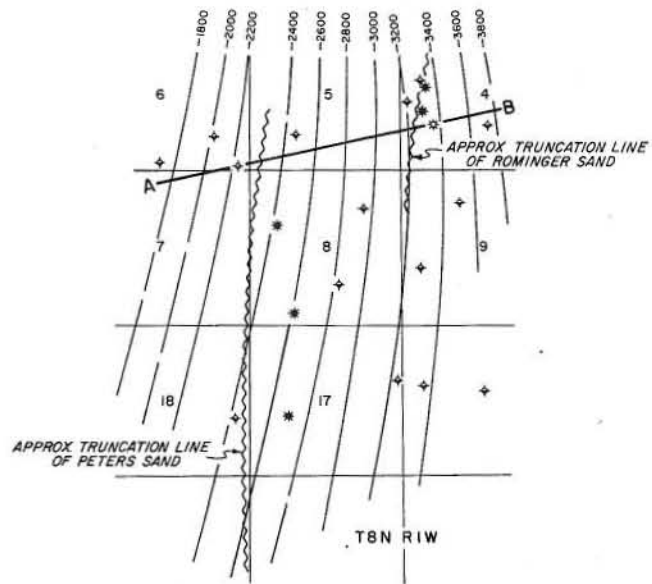
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands. (See Remarks)

METHOD OF WASTE DISPOSAL:

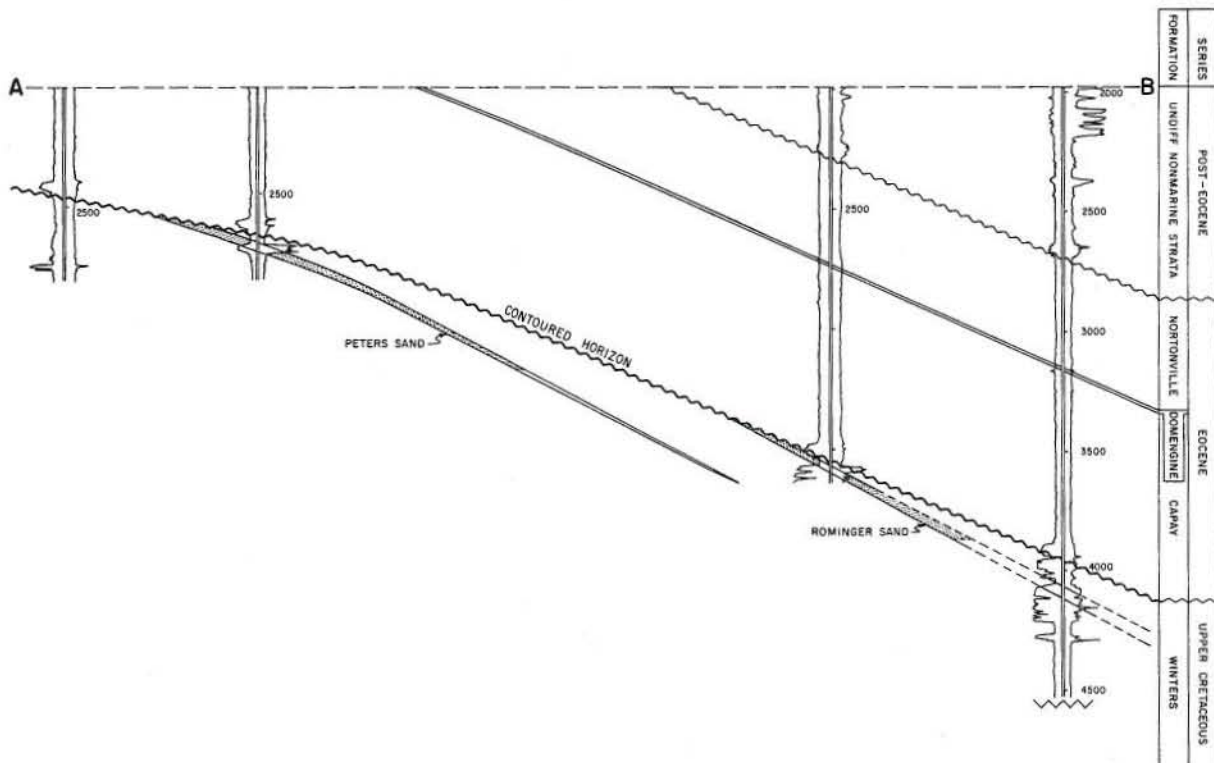
REMARKS: 2 7/8" casing was cemented through the zone in the discovery well; however, this is not a common completion practice. The well has been shut in since completion.

REFERENCES:

# PLEASANT CREEK GAS FIELD



CONTOURS ON TOP OF WINTERS



## CALIFORNIA DIVISION OF OIL AND GAS

PLEASANT CREEK GAS FIELD

Yolo County

LOCATION: 14 miles southwest of Woodland

TYPE OF TRAP: Erosional truncation of sands on homocline

ELEVATION: 185

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Rominger Peters	Westates Petroleum Co. "A.H. Rominger" 1 Pacific Gas and Electric Co. "Pleasant Creek Unit 3" 1	The Ohio Oil Co. "A.H. Rominger" 1 Shell Oil Co. "Pleasant Creek Unit 3" 1	4 8N 1W	MD	5,250	1,390	1/2	Jun 1953
			8 8N 1W	MD	9,550	510	1	Dec 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Divide Ridge Oil Co. No. 1	Same	Jul 1925	8 8N 1W	MD	5,006	Forbes (?)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Rominger Peters	3,700	25	Lt. Cretaceous	Winters	990	N.A.	1,670	IV
	2,800	30	Lt. Cretaceous	Winters	990	N.A.	1,270	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
658,304	0	220	2	4,532,726	1,021,466	1952	17	6	220

SPACING ACT: Applies

BASE OF FRESH WATER: 1,700 - 2,700

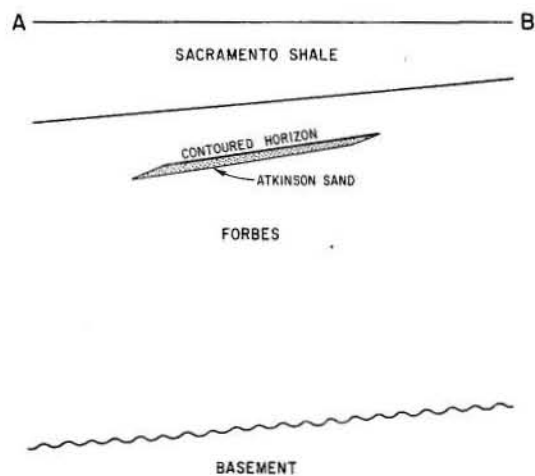
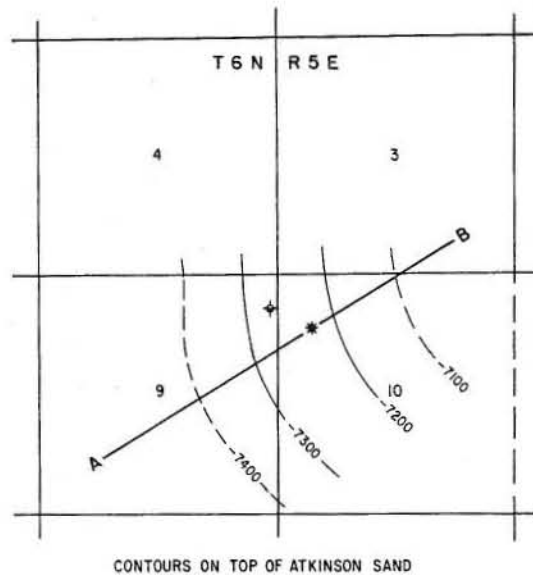
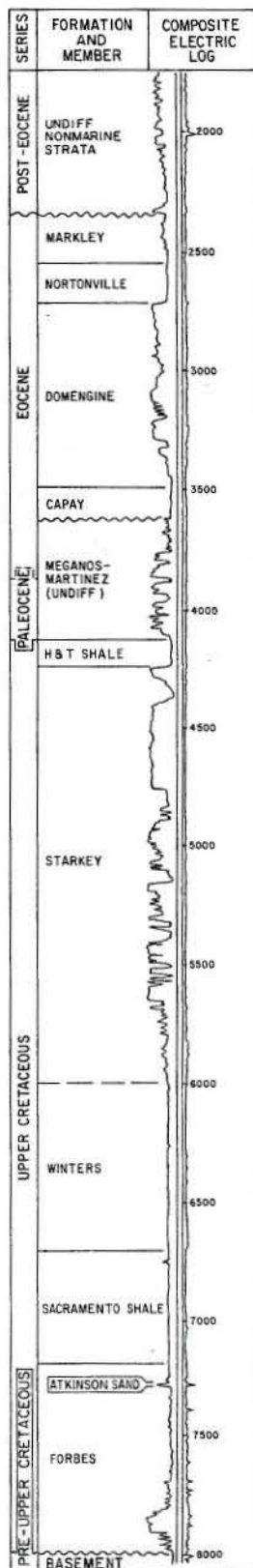
CURRENT CASING PROGRAM: 11 3/4" - 8 5/8" cem. 500; 7" - 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Commercial gas deliveries began in April 1951. Northeast portion of Pleasant Creek Gas field was also known as Chickahominy Gas field. Pacific Gas and Electric Company acquired the wells that are productive from the Peters sand in 1958 and converted them to gas storage in April 1960.

REFERENCES: Hunter, G.W., Pleasant Creek Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 1 (1955).

# POPPY RIDGE GAS FIELD



CALIFORNIA DIVISION OF OIL AND GAS

POPPY RIDGE GAS FIELD

Sacramento County

LOCATION: 14 miles southeast of Sacramento

TYPE OF TRAP: Lenticular sand

ELEVATION: 40

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Atkinson	Milon L. Johnston "Atkinson" 1	Same as present	10 6N 5E	MD	4,500	2,575	17/64	Mar 1962

Remarks: Initial production data from completion test of well.

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Milon L. Johnston "Jillson" 1	Same	Aug 1962	9 6N 5E	MD	8,118	Basement	pre-Late Cret

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Atkinson	7,270	9	Lt Cretaceous	Forbes	735	N.A.	3,220	IV

PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	--	--	2	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,700

CURRENT CASING PROGRAM: 9 5/8" cem. 800; 4 1/2" cem. through zone and across base of fresh-water sands.

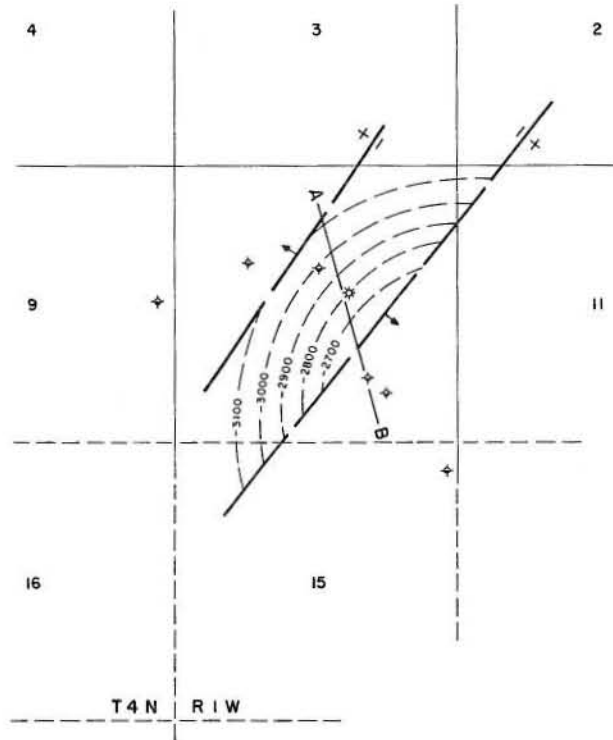
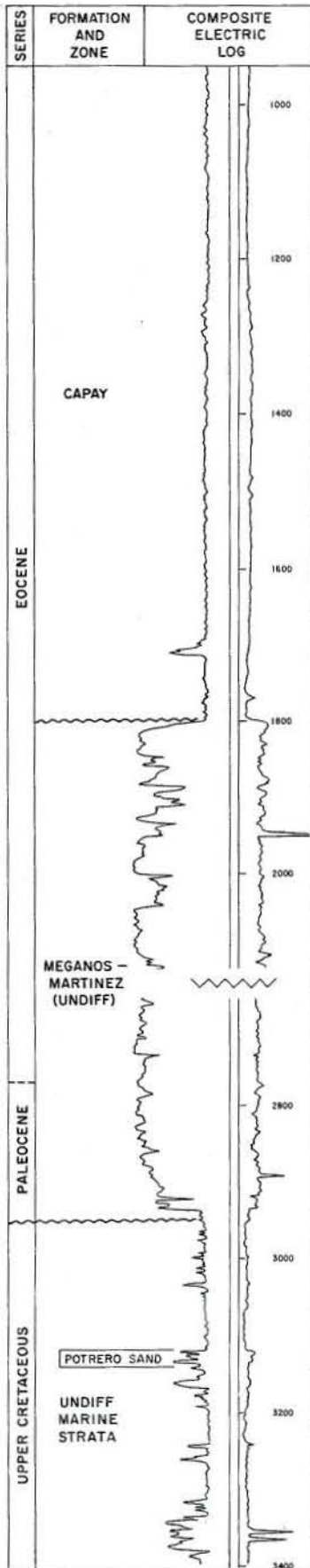
METHOD OF WASTE DISPOSAL:

REMARKS: The well is shut in.

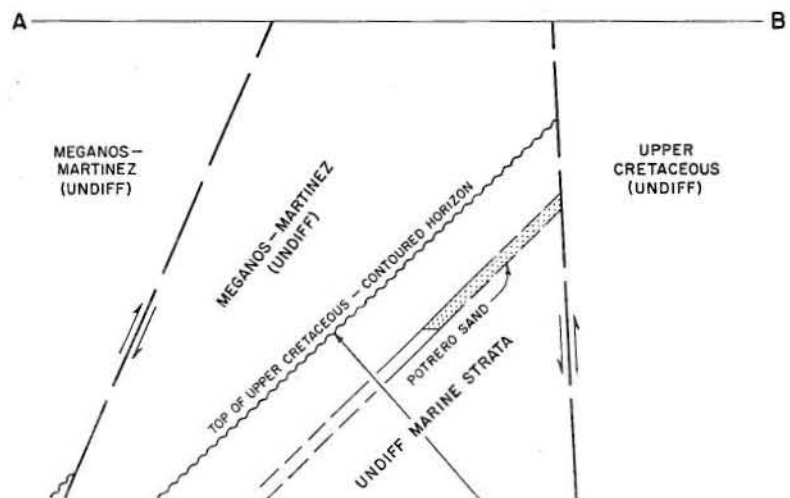
REFERENCES:



# POTRERO HILLS GAS FIELD (Abandoned)



CONTOURS ON TOP OF UPPER CRETACEOUS



## CALIFORNIA DIVISION OF OIL AND GAS

POTRERO HILLS GAS FIELD (Abandoned)

Solano County

LOCATION: 5 miles southeast of Fairfield

TYPE OF TRAP: Faulted nose

ELEVATION: 100 - 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Potrero	Atlantic Richfield Co. "Potrero Hills" 1	Richfield Oil Corp. "Potrero Hills" 1	10 4N 1W	MD	1,500	1,050	1/4	Dec 1938

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
McCulloch Oil Corp. "McCulloch-Macson Scally Unit" 1	McCulloch Oil Exploration Co. of Calif., Inc. "McCulloch-Macson Scally Unit" 1	Apr 1959	10 4N 1W	MD	9,020	Undiff. marine	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Potrero	3,245	6	Lt Cretaceous	Undiff. marine strata	970	340	1,420	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	21,542	20,042	1942	5	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100

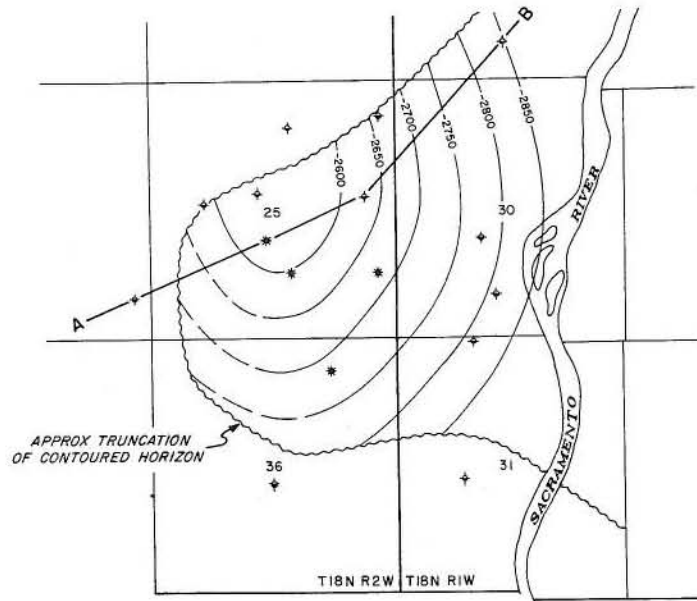
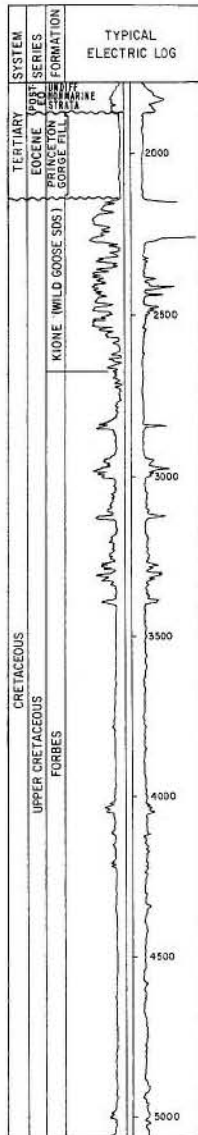
CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

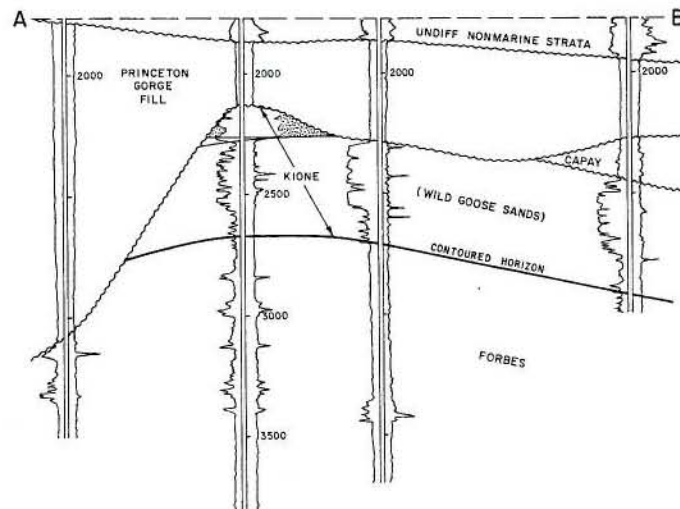
REMARKS: Commercial gas deliveries began in October 1942. The well was produced for 3 months and was abandoned in April 1943.

REFERENCES: Tolman, F.B., Potrero Hills Gas Field, in Geologic Formations and Economic Development of the Oil and Gas Fields of Calif.: Calif. Div. of Mines Bull. 118, p. 595 - 598 (1943).

# PRINCETON GAS FIELD



CONTOURS ON BASE OF KIONE



CALIFORNIA DIVISION OF OIL AND GAS

PRINCETON GAS FIELD (Field)  
Colusa County (County)

LOCATION: 12 miles north of Colusa

ELEVATION: 70

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Wild Goose	Rheem Calif. Land Co. "Southam" 1	Richard S. Rheem, Opr. "Southam" 1	25 18N 2W	MD	2,850	940	3/8	Dec. 1953

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Intex Oil Co. "Capitol" 1-30	Same	July 1966	30 18N 1W	MD	7,703	Dobbins	Late Cret.

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Wild Goose	2,170	110	Late Cretaceous	Kione	980	N.A.	1,015	III B 2M

PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
91,143	0	290	3	9,036,228	881,744	1956	14	4	320

SPACING ACT: Applies

BASE OF FRESH WATER: 1,800

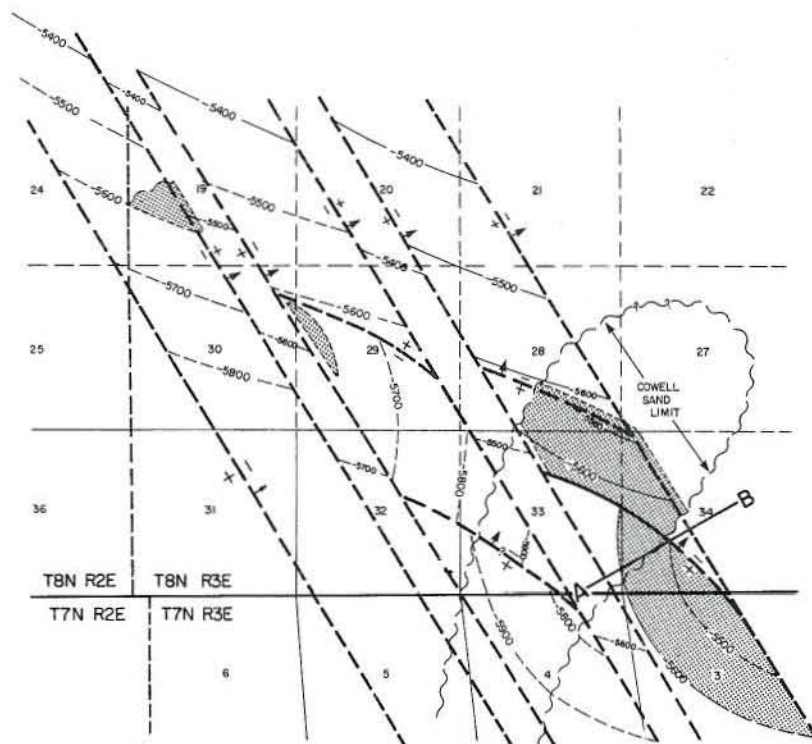
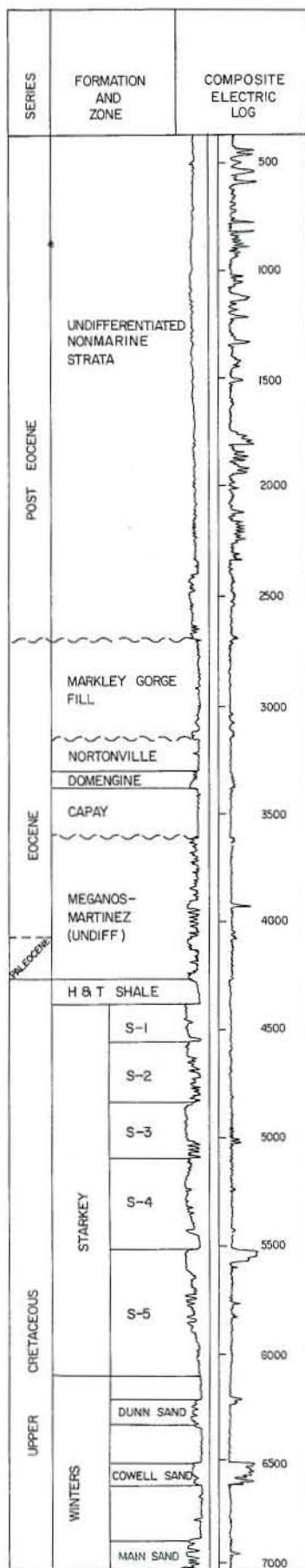
CURRENT CASING PROGRAM: 10 3/4" cem. 650; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in August 1955.

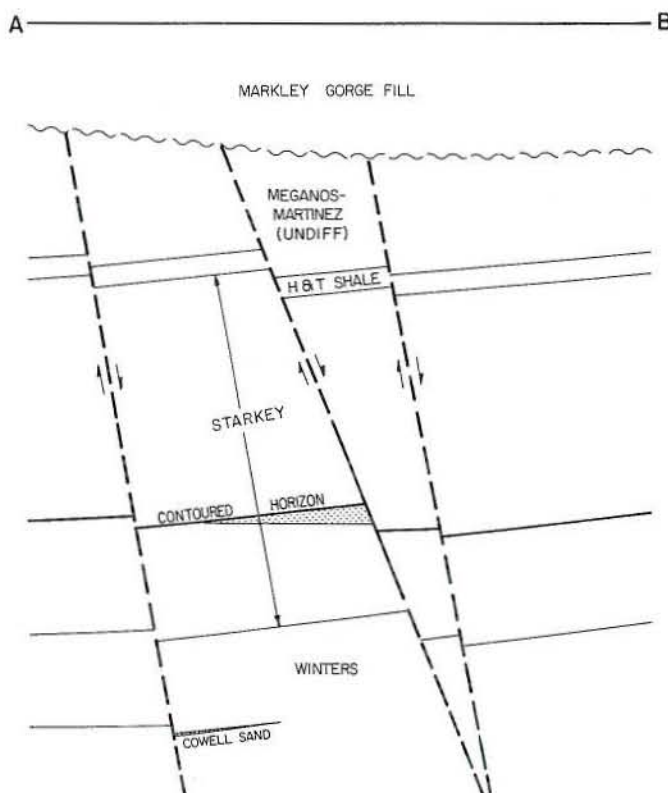
REFERENCES: Bruce, Donald D., Princeton Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 1 (1959).

January 1978

# PUTAH SINK GAS FIELD



CONTOURS ON TOP OF S-5 SAND





## CALIFORNIA DIVISION OF OIL AND GAS

PUTAH SINK GAS FIELD (Field)  
Yolo County (County)

LOCATION: 5 miles southeast of Davis

ELEVATION: 26

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
S-4	Shell Oil Co. "Glide" 1-3	Same	3 7N 3E	MD	2,080	2,050	N.A.	Nov. 1973
Dunn	Anacapa Oil Corp. "Sumpf-Williams-Dunn" 1	Same	29 8N 3E	MD	1,600	2,050	1/2	Apr. 1974
Cowell	Shell Oil Co. "Shoshone Cowell" 1	Same	34 8N 3E	MD	970	2,550	28/64	June 1973

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Cowell Glide A" 1-33	Same	Jan. 1974	33 8N 3E	MD	7,545	Winters	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
S-4	5,550	50	Late Cretaceous	Starkey	900	N.A.	2,420	III B 3M
Dunn	6,210	20	Late Cretaceous	Winters	890	N.A.	2,710	III B 3M
Cowell	6,500	60	Late Cretaceous	Winters	910	N.A.	2,995	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
3,875,386	10	720	8	7,408,083	3,875,386	1976	13	9	720

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000-2,500

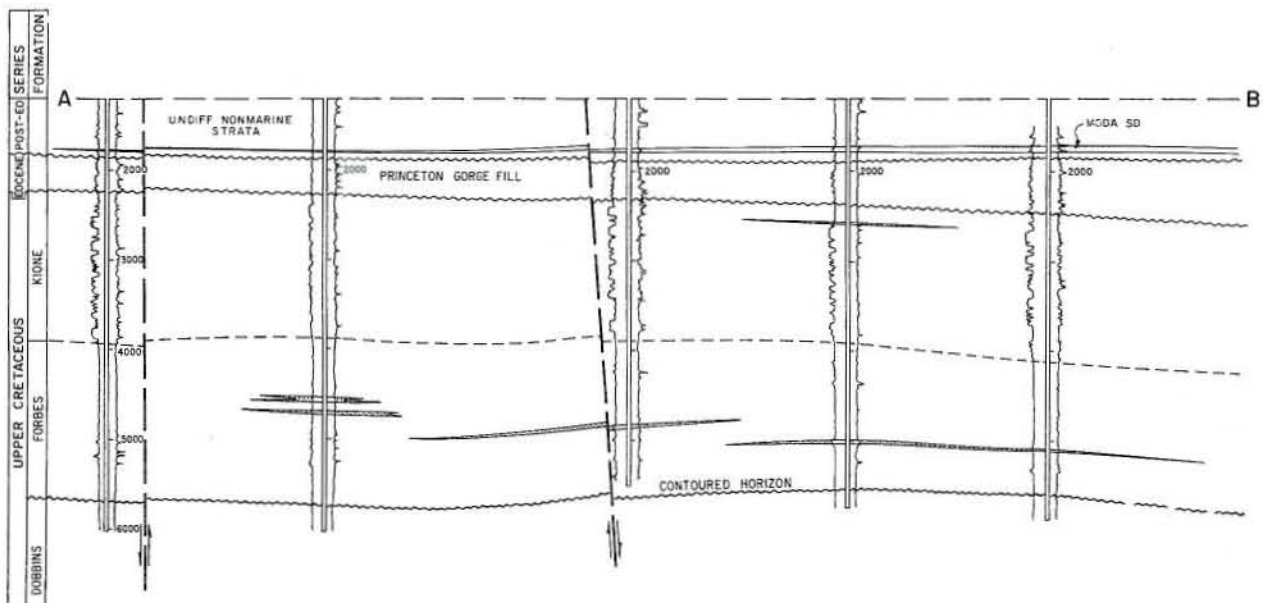
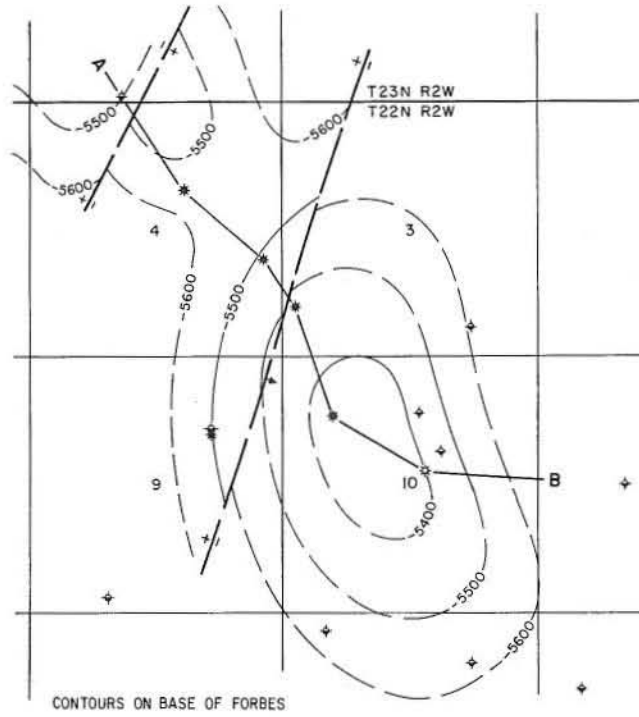
CURRENT CASING PROGRAM: 8 5/8" cem. 1,000-1,500; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in December 1974.

REFERENCES: None

January 1978

# RANCHO CAPAY GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

RANCHO CAPAY GAS FIELD

Glenn County

LOCATION: 7 miles northeast of Orland

TYPE OF TRAP: Lenticular sands on faulted anticline

ELEVATION: 200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Moda Kione (Unnamed sand stringers)	G.E. Kadane & Sons "Moda A" 54-10	General Petroleum Corp. "Moda A" 54-10	10 22N 2W	MD	5,800	390	56/64	Aug 1959
	The Termo Co. "Moda A Unit" 3	Trico Oil and Gas Co. "Moda A Unit" 3	10 22N 2W	MD	730	1,000	12/64	*Jun 1966
	The Termo Co. "Rancho Capay Unit 1" 1	Trico Oil and Gas Co. "Rancho Capay Unit" 1	4 22N 2W	MD	4,000	1,400	1/4	Aug 1962

Remarks: \* Originally completed in a Forbes sand stringer in May 1964; plugged back and recompleted in the Kione.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Termo Co. "Rancho Capay Unit 1" 1	Trico Oil and Gas Co. "Rancho Capay Unit" 1	Aug 1962	4 22N 2W	MD	6,035	Dobbins	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Moda	1,710	20	post-Eocene	Undiff. nonmarine strata	860	N.A.	660	IV
Kione (Unnamed sand stringers)	2,580	10	Lt Cretaceous	Kione	950	N.A.	1,120	IV
	4,540 - 5,000	1 - 30 per stringer	Lt Cretaceous	Forbes	1,000	N.A.	2,405 - 2,705	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
187,973	57	400	3	1,960,481	246,336	1967	10	6	440

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200

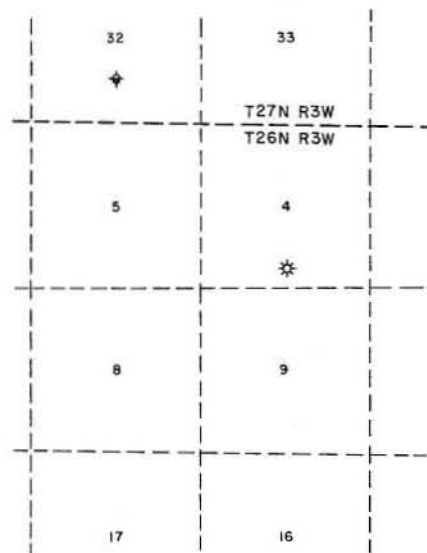
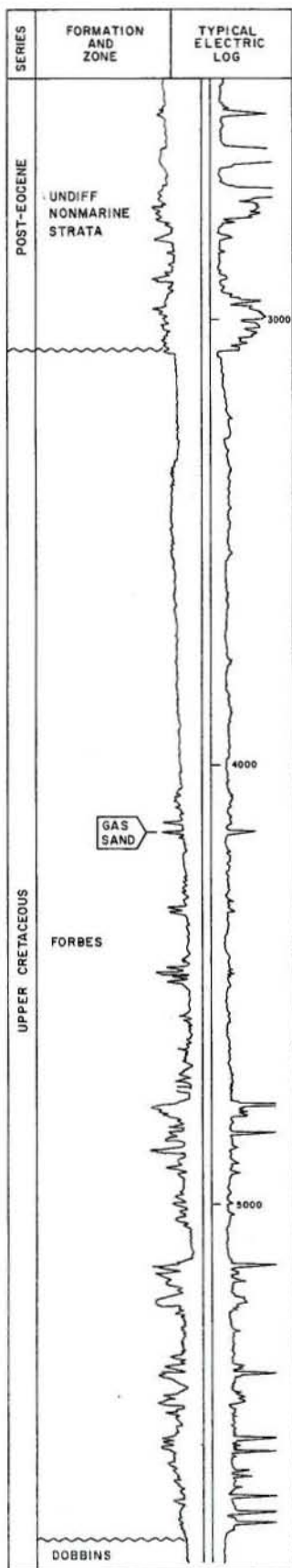
CURRENT CASING PROGRAM: 9 5/8" cem. 600; 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Sumps at well sites.

REMARKS: Commercial gas deliveries began in March 1961.

REFERENCES: Land, P.E., Rancho Capay Gas Field: Calif. Div. of Oil and Gas, Summary of Operations — Calif. Oil Fields, Vol. 56, No. 1 (1970).

# RED BANK CREEK GAS FIELD (Abandoned)



DEFINITIVE DATA UNAVAILABLE

## CALIFORNIA DIVISION OF OIL AND GAS

RED BANK CREEK GAS FIELD (Abandoned)

Tehama County

LOCATION: 4 miles southeast of Red Bluff

TYPE OF TRAP: Lenticular sand

ELEVATION: 304

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed)	Red Bluff Associates "Goff" 1	Kenyon C. Sills, Oper., Inc. "Goff" 1	4 26N 3W	MD	1,040	1,227	3/16	Aug 1964

Remarks: The well was originally drilled and abandoned by Humble Oil &amp; Refining Co. (now Exxon Corp.).

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Humble Oil & Refining Co. "Henry James Goff, et ux" 1	Jul 1960	4 26N 3W	MD	5,800	Dobbins	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	4,158	8	Lt Cretaceous	Forbes	900	N.A.	2,040	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	19,076	9,767	1965	1	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 2,650

CURRENT CASING PROGRAM: 8 5/8" or 7" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands. (See Remarks)

METHOD OF WASTE DISPOSAL:

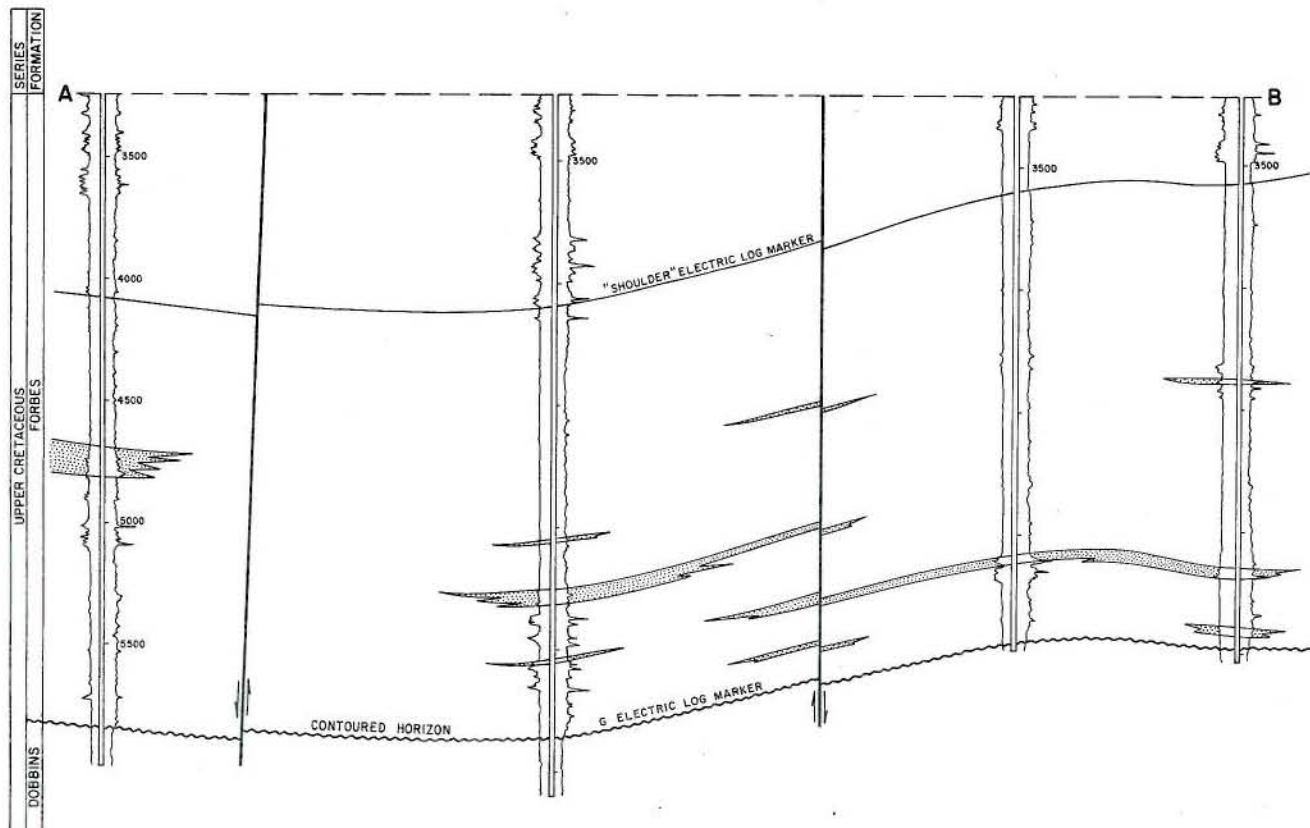
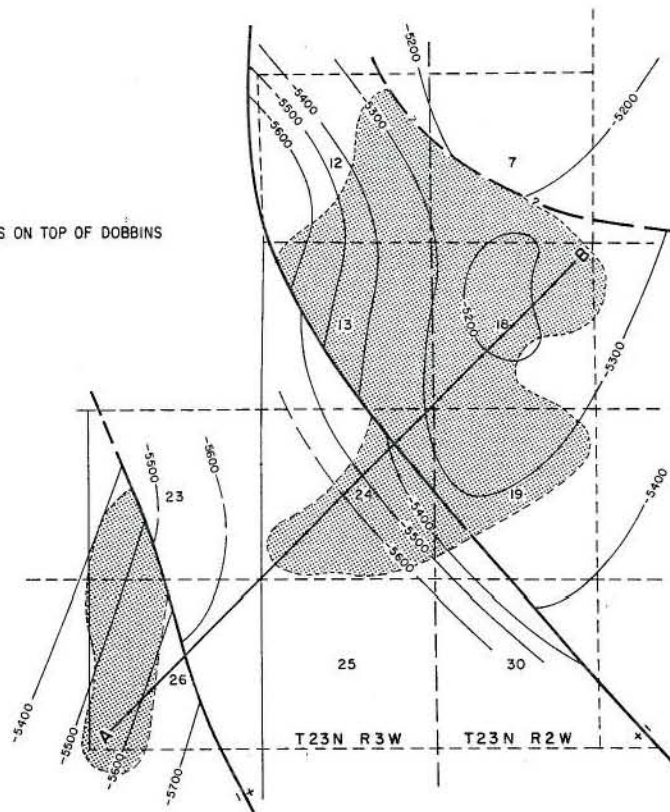
REMARKS: Commercial gas deliveries began in December 1965. The field was abandoned in March 1972. 2 7/8" casing was cemented through the zone in the producing well, but this is not common practice in this area.

REFERENCES:



# RICE CREEK GAS FIELD

CONTOURS ON TOP OF DOBBINS



# CALIFORNIA DIVISION OF OIL AND GAS

RICE CREEK GAS FIELD (Field)  
Tehama County (County)

LOCATION: 5 miles northeast of Orland

ELEVATION: 250

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed sand stringers)	McCulloch Oil & Gas Corp. "Nellie P. Walker Unit" 2	Sunray DX Oil Co. "Nellie P. Walker Unit" 2	24 23N 3W	MD	*3,385 1,400 1,330	970 880 835	3/8 1/4 1/4	May 1964
(Unnamed sand stringers)	Sun Oil Co. "George S. Reid Unit" 1	Sunray DX Oil Co. "George S. Reid Unit" 1	13 23N 3W	MD	3,230	1,290	5/16	May 1963

Remarks: \* Triple completion (three strings of 2 7/8" tubing cemented in hole).

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Sun Oil Co. "Victor Ranch" 4	Sunray DX Oil Co. "Victor Ranch" 4	May 1965	7 23N 2W	MD	12,175	Venado	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	2,000-2,660	5-40 per stringer	Late Cretaceous	Kione	870-965	10,100	970-1,270	III B 2M
(Unnamed sand stringers)	4,250-5,500	5-30 per stringer	Late Cretaceous	Forbes	988-1,016	16,600-23,800	2,260-3,140	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1977 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
973,537	10,047	2,720	16	18,854,377	2,637,249	1967	32	19	2,800

SPACING ACT: Applies

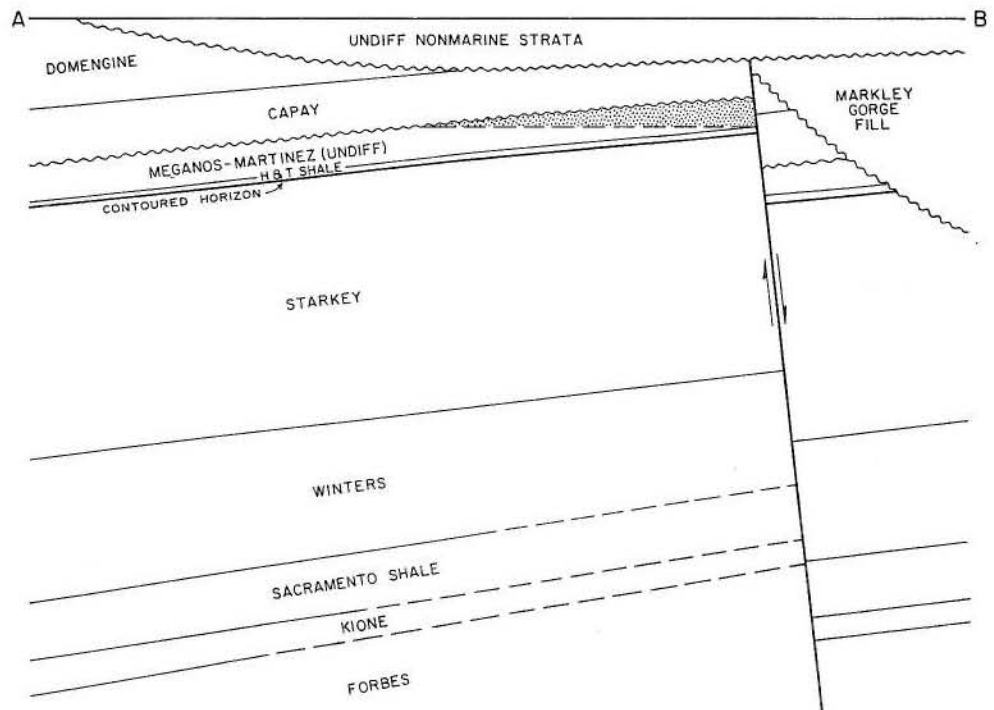
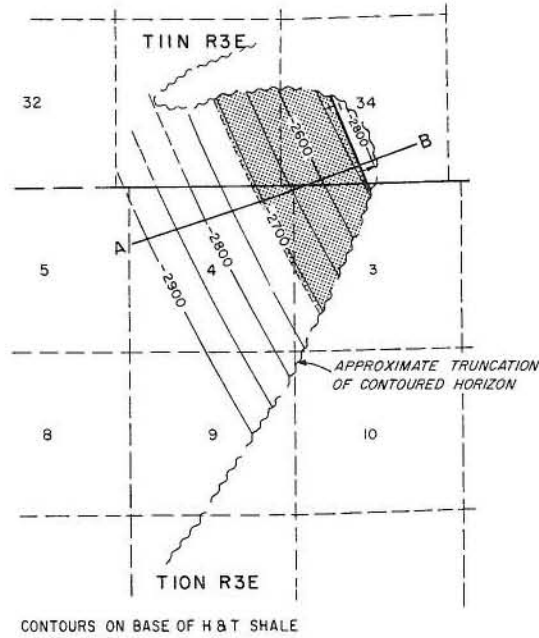
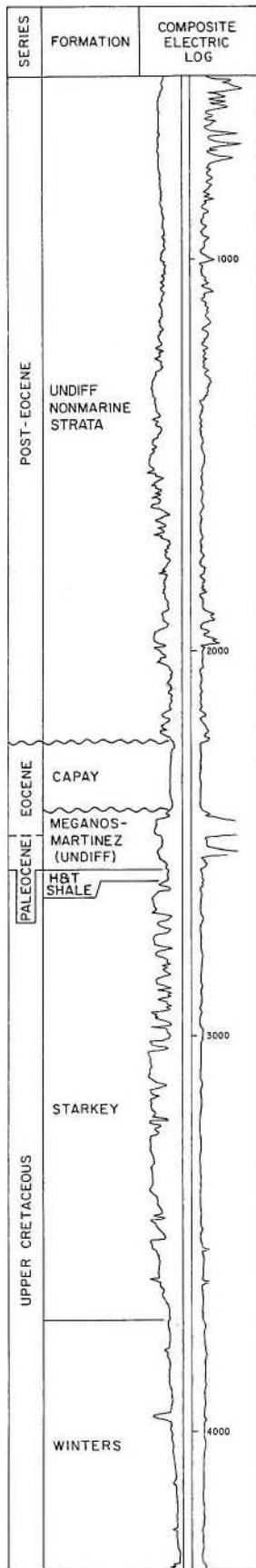
BASE OF FRESH WATER: 1,450-1,700

CURRENT CASING PROGRAM: Kione Formation: 9 5/8" cem. 600; 4 1/2" cem. through gas zones and across base of freshwater sands.  
Forbes Formation: 9 5/8" cem. 1,100; 4 1/2" cem. through gas zones and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in May 1964.

REFERENCES: Hill, F. L., Rice Creek Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 56, No. 1 (1970).

# RIO JESUS GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

RIO JESUS GAS FIELD (Field)  
Yolo County (County)

LOCATION: 10 miles northeast of Woodland

ELEVATION: 20

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Shell Oil Co. "Jesus-Maria" 1	Same	4 10N 3E	MD	3,394	915	24/64	July 1972

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Jesus-Maria" 1	Same	June 1972	4 10N 3E	MD	4,504	Sacramento Shale	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,470	50	Eocene-Paleocene	Meganos-Martinez	864-884	N.A.	1,275	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	160	0	0	See Remarks	--	3	3	160

SPACING ACT: Applies

BASE OF FRESH WATER: 1,000

CURRENT CASING PROGRAM: 8 5/8" or 7" cem. 500; 5 1/2" or 4 1/2" cem. through zone and across base of freshwater sands.

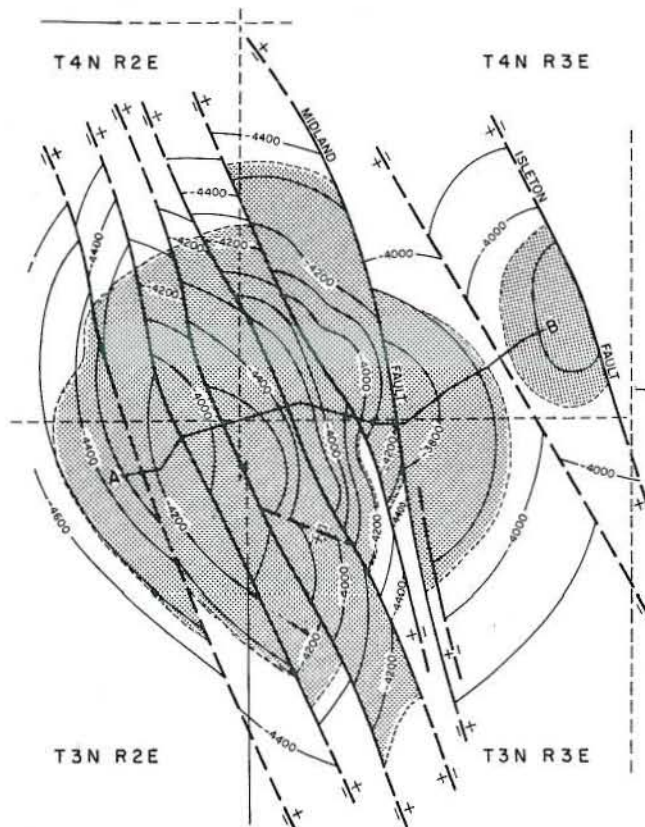
REMARKS: Commercial gas deliveries began in January 1977.

REFERENCES: None

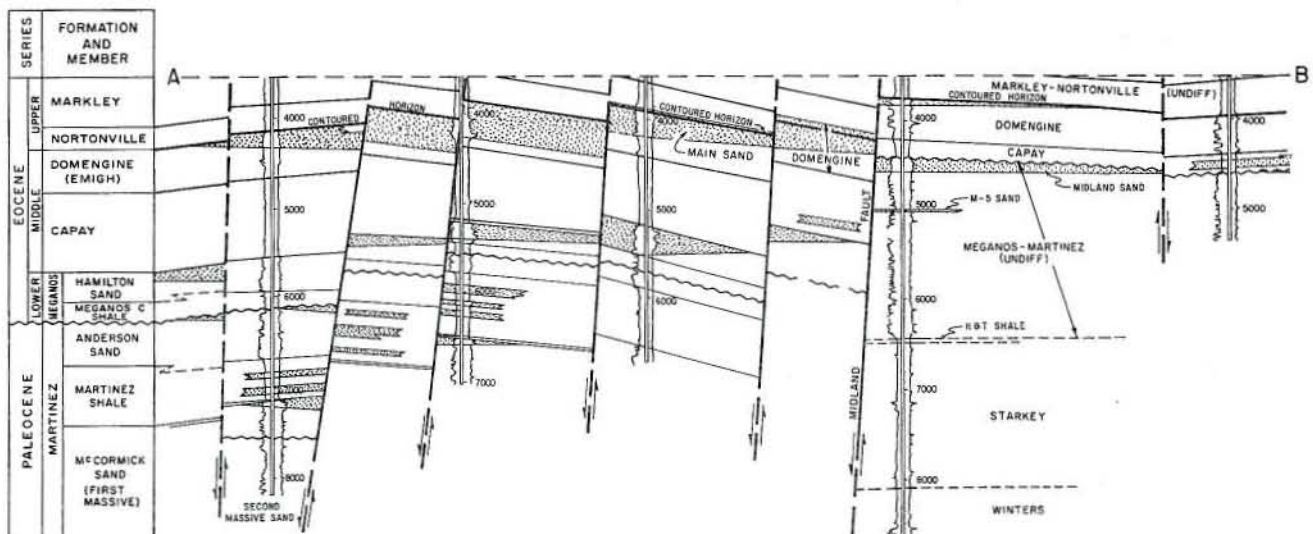
January 1978



# RIO VISTA GAS FIELD



CONTOURS ON TOP OF DOMENGINE MAIN SAND





# CALIFORNIA DIVISION OF OIL AND GAS

RIO VISTA GAS FIELD

Contra Costa, Sacramento, and Solano Counties

LOCATION: Surrounding Rio Vista; 30 miles southwest of Sacramento

TYPE OF TRAP: Faulted dome; lenticular sands

ELEVATION: 50

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Nortonville	Texaco Inc. "Brannan Isl. Unit" 2	The Texas Co. "Huth Unit" 2	28 4N 3E	MD	190	N.A.	N.A.	Sep 1950
Emigh	Amerada Hess Corp., Unit Opr. "RVGU" 55	Amerada Pet. Corp. of Calif. "Emigh" 1	26 4N 2E	MD	8,750	1,375	1/2	Jun 1936
Capay stringers	Union Oil Co. of Calif. "Gardiner" 1	D.D. Feldman "Gardiner" 1	35 4N 3E	MD	3,010	1,670	1/4	May 1948
Hamilton	Amerada Hess Corp., Unit Opr. "RVGU" 62	Amerada Pet. Corp. of Calif. "M. Hamilton" 1	26 4N 2E	MD	*4,160	290	3/4	Nov 1936
Midland	Amerada Hess Corp., Unit Opr. "RVGU" 17	Standard Oil Co. of Calif. "Midland Fee" 5	4 3N 3E	MD	*5,700	N.A.	N.A.	Jun 1943
M-5	Same as above	Same as above	4 3N 3E	MD	13,340	1,635	5/8	Aug 1943
Anderson	Amerada Hess Corp., Unit Opr. "RVGU" 32	Standard Oil Co. of Calif. "Perry Anderson" H-6	36 4N 2E	MD	11,700	2,145	1/2	Aug 1944
Martinez stringers	Standard Oil Co. of Calif. "Perry Anderson" 11	Standard Oil Co. of Calif. "Perry Anderson" 11	35 4N 2E	MD	4,250	1,810	3/8	Oct 1966
McCormick	Same as above	Same as above	35 4N 2E	MD	5,330	1,925	3/8	Oct 1966
Petersen	Amerada Hess Corp. "E. Drouin" 8	Amerada Petroleum Corp. "Drouin" 8	23 4N 2E	MD	400	125	3/8	Apr 1966

Remarks: \* Open-hole formation test.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Peter Cook" 15	Same	May 1964	8 4N 3E	MD	15,050	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville	3,700 - 4,200	25	Eocene	Nortonville	1,010	N.A.	1,230	IV
Emigh	3,800 - 4,300	40 - 315	Eocene	Domengine	1,000 - 1,050	360 - 550	1,715 - 1,915	IV
Capay stringers	4,500 - 5,100	20 - 40 per stringer	Eocene	Capay	1,050 - 1,070	500 - 910	1,930 - 1,930	IV
Hamilton	5,300	90	Eocene	Meganos	1,060	900 - 1,100	2,415	IV
Midland	4,500	40 - 140	Eocene	Meganos	1,000 - 1,055	810	2,060	IV
M-5	5,050	10	Paleocene	Martinez	990	660	2,210	IV
Anderson	5,750	45	Paleocene	Martinez	1,070	800 - 1,100	2,550	IV
Martinez stringers	5,800 - 6,900	30 - 120 per stringer	Paleocene	Martinez	1,065	900	2,865	IV
McCormick	6,500 - 7,600	50	Paleocene	Martinez	1,060	610 - 885	2,930	IV
Petersen	9,650	55	Lt Cretaceous	Starkey	1,080	450	4,860	V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
71,398,805	135,959	23,130	159	2,768,030,190	159,577,428	1945	298	248	24,590

SPACING ACT: Applies

BASE OF FRESH WATER: 1,900 - 2,900

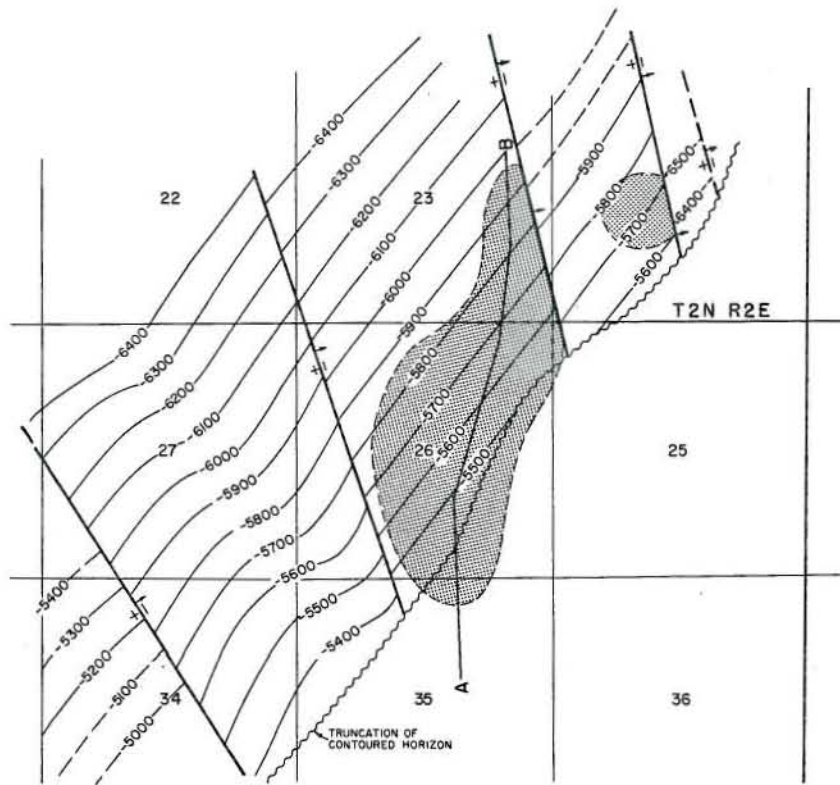
CURRENT CASING PROGRAM: 9 5/8" cem. 600 - 1,000; 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water hauled by truck to disposal site; disposal of some waste water into sumps.

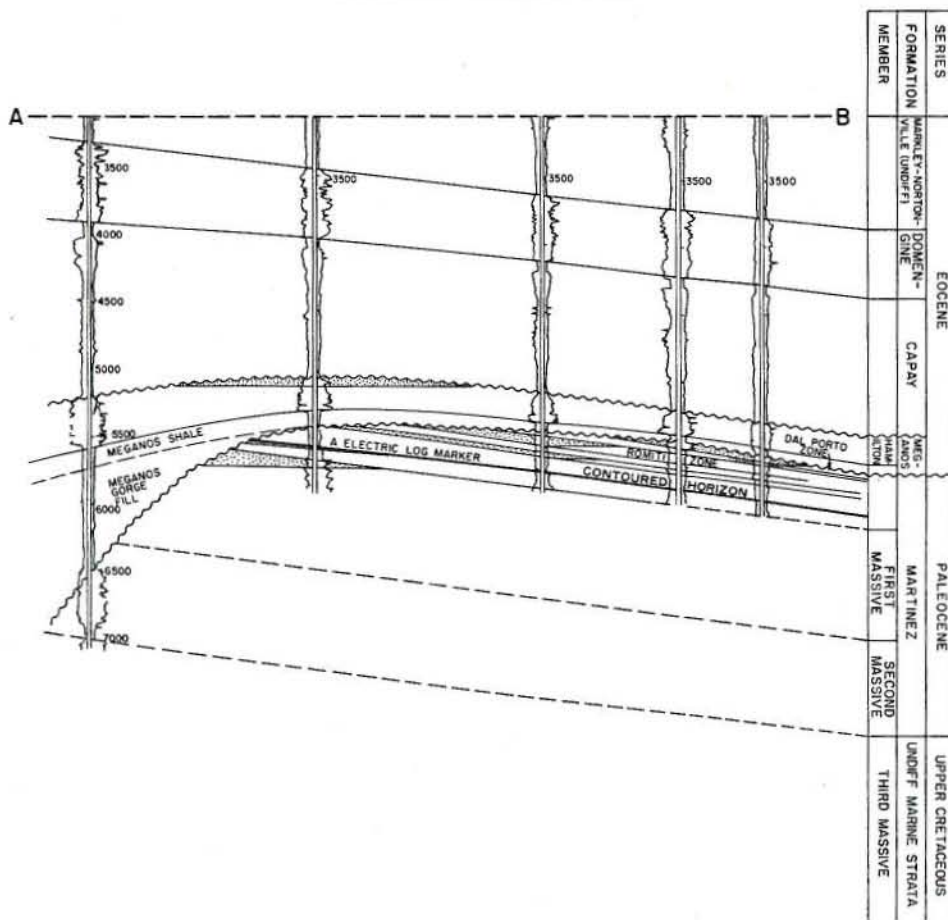
REMARKS: Commercial gas deliveries began in September 1937. 1972 condensate production 46,310 bbl.; cumulative condensate production 1,157,976 bbl. Effective January 1965, most of the field was unitized, with Amerada Hess Petroleum Corp. acting as unit operator.

REFERENCES: Burroughs, Ernest, Rio Vista Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 53, No. 2 - Part 2 (1967).  
 Burroughs, Ernest, G.W. Beecroft, and R.M. Barger, Rio Vista Gas Field: Am. Assoc. Petroleum Geologists, Memoir No. 9, p. 93-101 (1968).  
 Corwin, C.H., Rio Vista Gas Field, Isleton Area: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 39, No. 1 (1953).  
 Frame, R.G., Rio Vista Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 30, No. 1 (1944).  
 Railroad Commission of the State of Calif. and Calif. Div. of Oil and Gas, Rio Vista Gas Field in Estimate of Natural Gas Reserves of the State of Calif.: Case No. 4591, Special Study No. S-258, p. 245-251 (1942).  
 Soper, E.K., Rio Vista Gas Field in Geologic Formations and Economic Development of the Oil and Gas Fields of Calif.: Calif. Div. of Mines Bull. 118, p. 591-594 (1943).

# RIVER BREAK GAS FIELD



CONTOURS ON A ELECTRIC LOG MARKER



# CALIFORNIA DIVISION OF OIL AND GAS

RIVER BREAK GAS FIELD

Contra Costa County

LOCATION: 5 miles east of Antioch

TYPE OF TRAP: Homocline truncated by gorge; lenticular sands; compaction flexure

ELEVATION: 17

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Hamilton	Great Yellowstone Corp. "Massoni-DeMartini" 1	Same as present	26 2N 2E	MD	1,645	1,470	15/64	Jun 1968
Dal Porto	Gulf Oil Corp. "Sesnon-Gulf" 1	Helm Co. & Robt. Sumpf "Sesnon-Gulf" 1	24 2N 2E	MD	17,000	1,830	5/8	Dec 1964
Romiti	Great Yellowstone Corp. "Turner" 1	Same as present	26 2N 2E	MD	3,590	1,750	20/64	Jan 1968
First Massive	Great Yellowstone Corp. "Romiti" 1	Same as present	26 2N 2E	MD	3,190	1,910	18/64	Jun 1968

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "Porter Sesnon" 1	Gulf Oil Corp. of Calif. "Porter Sesnon" 1	Jul 1963	25 2N 2E	MD	9,018	Undiff. marine	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Hamilton	5,015	30	Eocene	Meganos	1,060	N.A.	2,220	*IV or V
Dal Porto	5,450	40	Paleocene	Martinez	1,020	280	2,500	IV or V
Romiti	5,540	25	Paleocene	Martinez	1,020	N.A.	2,500	IV or V
First Massive	5,660	60	Paleocene	Martinez	1,100	410	2,520	IV or V

\* BOPE Class depends on location of well.

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,479,384	22,032	600	7	4,998,749	1,648,021	1971	18	9	700

SPACING ACT: Applies

BASE OF FRESH WATER: 250

CURRENT CASING PROGRAM: 9 5/8" or 8 5/8" cem. 850; 5 1/2" or 4 1/2" cem. through zones.

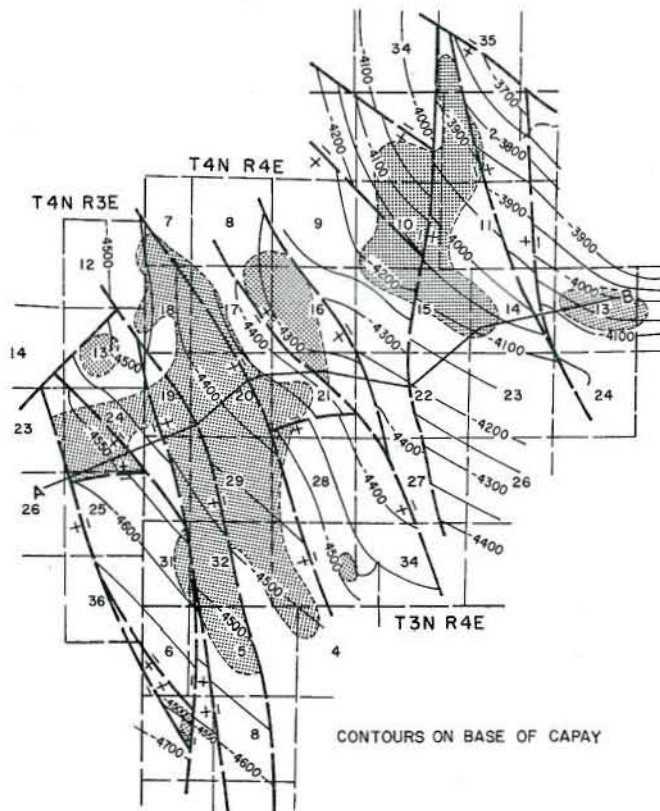
METHOD OF WASTE DISPOSAL: Waste water is hauled by truck to disposal site.

REMARKS: Commercial gas deliveries began in December 1966. 1972 condensate production 3,382 bbl.; cumulative condensate production 11,105 bbl.

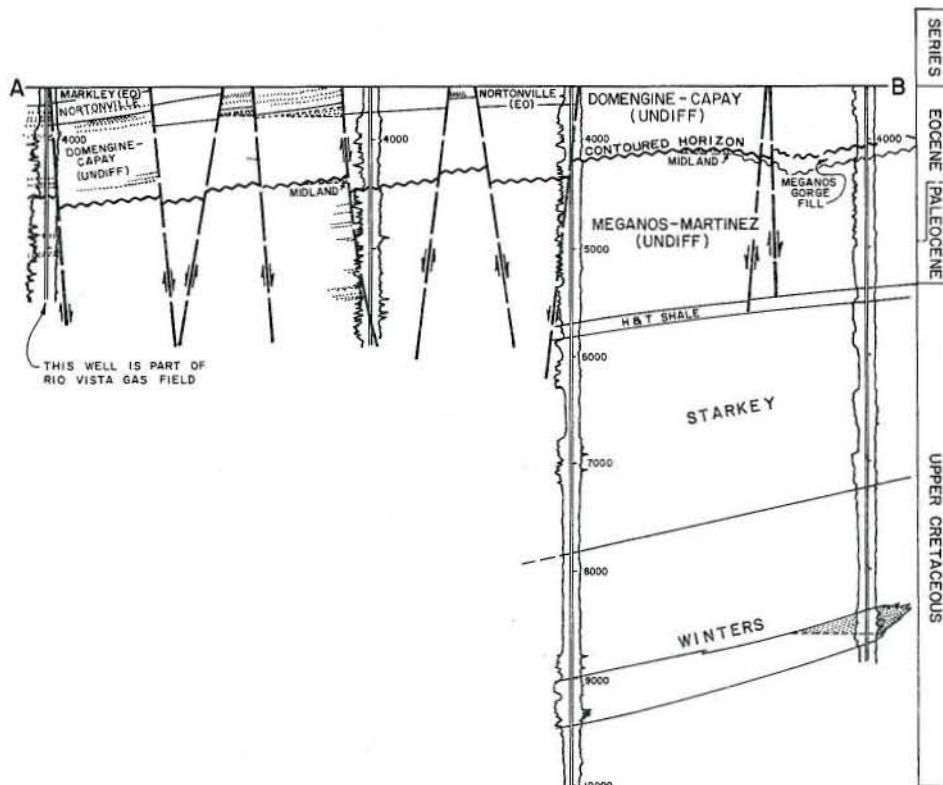
REFERENCES: Williams, P.A., River Break Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 58, No. 1 (1972).



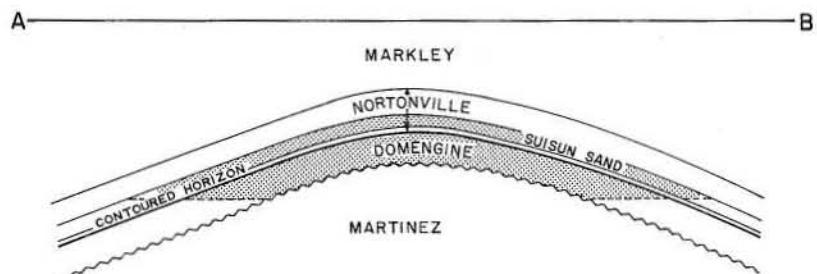
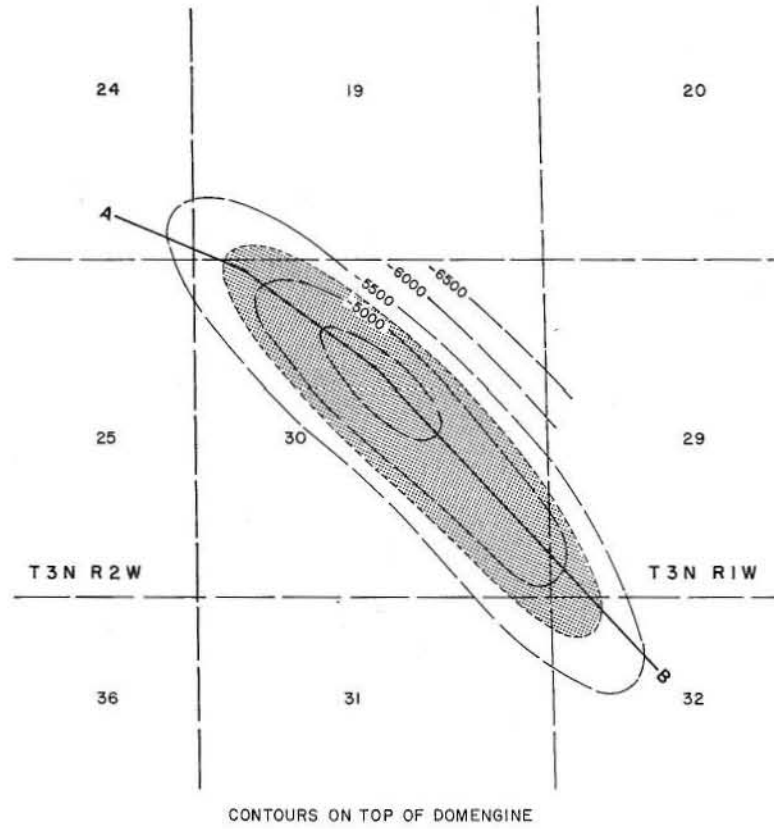
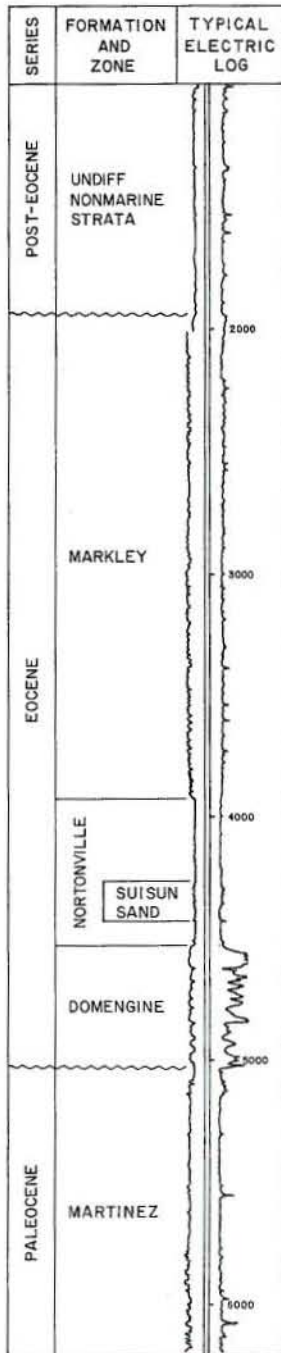
# RIVER ISLAND GAS FIELD



COURTESY OF UNION OIL COMPANY OF CALIFORNIA



# RYER ISLAND GAS FIELD



COURTESY OF STANDARD OIL COMPANY OF CALIFORNIA



CALIFORNIA DIVISION OF OIL AND GAS

RYER ISLAND GAS FIELD (Field)  
Solano County (County)

LOCATION: 3 miles north of Port Chicago

ELEVATION: Sea level

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Suisun	Chevron U.S.A. Inc. "Ryer" 1	Standard Oil Co. of Calif. "S.O. Opr.-Ryer" 1	30 3N 1W	MD	3,875	1,305	1/2	July 1967
Domengine	Same	Same	30 3N 1W	MD	11,545	1,725	1/2	July 1967

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Chevron U.S.A. Inc. "Ryer" 1	Standard Oil Co. of Calif. "S.O. Opr.-Ryer" 1	Aug. 1966	30 3N 1W	MD	8,942	Martinez	Paleocene

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Suisun	4,470	60	Eocene	Nortonville	1,070	N.A.	2,410	III B 3M
Domengine	4,750	200	Eocene	Domengine	1,100	N.A.	2,405	III B 3M

PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
8,318,372	2,835	400	5	86,536,658	13,437,832	1973	8	7	400

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100

CURRENT CASING PROGRAM: 22" to 14" driven or cem. 40-300; 10 3/4" cem. 1,100-1,500; 7" or 5 1/2" cem. through zone.

REMARKS: The wells are directionally drilled, with two producing wells on two platforms and three producing wells on Ryer Island. Commercial gas deliveries began in October 1968. 1976 condensate production 9,739 bbl; cumulative condensate production 118,139 bbl.

REFERENCES: None

January 1978

## CALIFORNIA DIVISION OF OIL AND GAS

RYER ISLAND GAS FIELD

Solano County

LOCATION: 3 miles north of Port Chicago

TYPE OF TRAP: Anticline

ELEVATION: 0

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Suisun	Standard Oil Co. of Calif. "Ryer" 1	Standard Oil Co. of Calif. "S.O. Opr. - Ryer" 1	30 3N 1W	MD	3,875	1,305	1/2	Jul 1967
Domengine	Same as above	Same as above	30 3N 1W	MD	11,545	1,725	1/2	Jul 1967

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Aug 1966	30 3N 1W	MD	8,942	Martinez	Paleocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Suisun	4,470	60	Eocene	Nortonville	1,070	7	2,410	IV
Domengine	4,750	200	Eocene	Domengine	1,100	11	2,405	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
11,500,048	3,382	400	6	42,970,756	11,500,048	1972	7	6	400

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100

CURRENT CASING PROGRAM: 22" to 14" driven or cem. 40 - 300; 10 3/4" cem. 1,000 - 1,500; 7" or 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water is hauled to disposal site.

REMARKS: The wells are directionally drilled, with three producing wells on two platforms and three producing wells on Ryer Island. Commercial gas deliveries began in October 1968. 1972 condensate production 22,248 bbl.; cumulative condensate production 56,730 bbl.

REFERENCES:

## CALIFORNIA DIVISION OF OIL AND GAS

ROBERTS ISLAND GAS FIELD

San Joaquin County

LOCATION: 6 miles southwest of Stockton

TYPE OF TRAP: Anticline

ELEVATION: Sea level

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
McDonald Island	Arcady Oil Co. "Woods Community 2" 1	Standard Oil Co. of Calif. "Woods Community 2" 1	23 1N SE	MD	5,610	1,765	3/8	Aug 1942

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Woods Community" 2-5	Same	Feb 1962	26 1N SE	MD	11,426	Panoche	Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
McDonald Island	5,250	10	Eocene	Meganos	955	300 - 700	2,340	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
457,496	1,194	100	3	26,990,717	3,237,588	1960	35	17	1,580

SPACING ACT: Applies

BASE OF FRESH WATER: 75

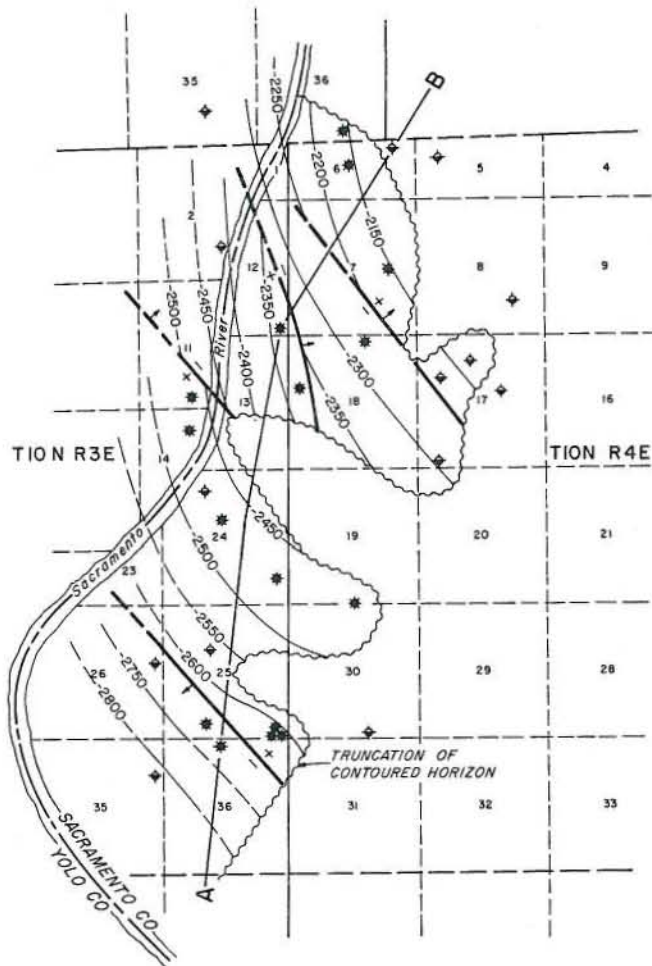
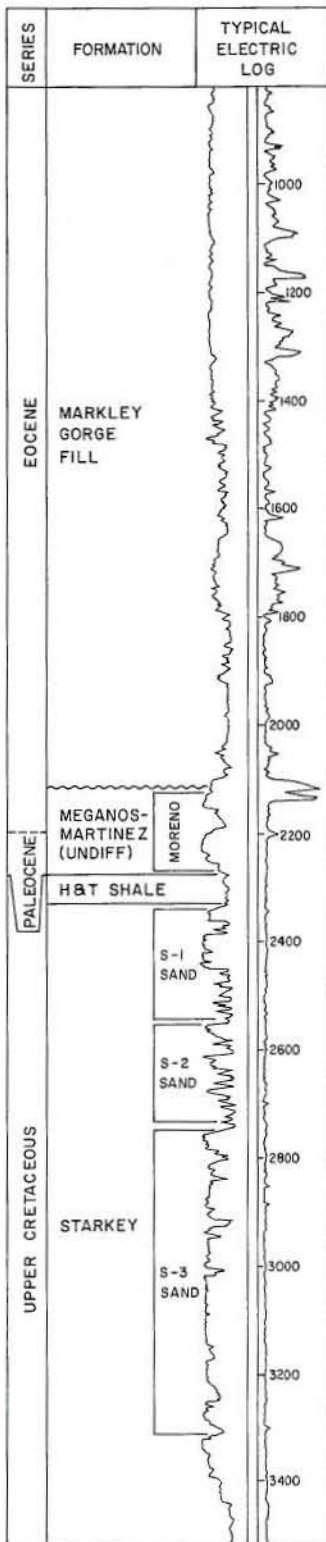
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water injected into two water disposal wells.

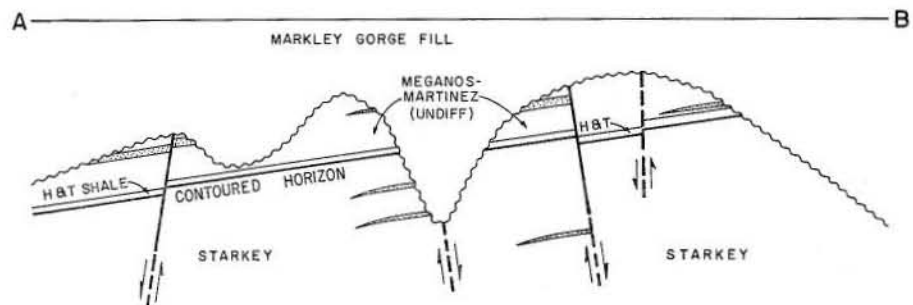
REMARKS: The northwest portion of the field was formerly known as the Whiskey Slough area. Commercial gas deliveries began in October 1942.

REFERENCES: Huey, W.F., Roberts Island Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1 (1958).

# SACRAMENTO AIRPORT GAS FIELD



CONTOURS ON TOP OF STARKEY



## CALIFORNIA DIVISION OF OIL AND GAS

SACRAMENTO AIRPORT GAS FIELD (Field)  
 Sacramento, Sutter, and Yolo Counties (County)

LOCATION: 10 miles northwest of Sacramento

ELEVATION: 20

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Moreno	Shell Oil Co. "Silva-Betts" 1-25	Same	25 10N 3E	MD	235	1,000	N.A.	Nov. 1973
S-1	Shell Oil Co. "Sacramento Airport" 1-19	Same	19 10N 4E	MD	195	1,080	N.A.	Nov. 1974
S-2	Shell Oil Co. "Sacramento Airport" 1-30	Same	25 10N 3E	MD	210	1,180	N.A.	May 1974
S-3	Shell Oil Co. "Sacramento Airport" 2-24	Same	24 10N 3E	MD	170	1,250	N.A.	Jan. 1974

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Buttes Resources Co. "Natomas" 3	Buttes Gas and Oil Co. "Natomas" 3	July 1961	6 10N 4E	MD	4,500	Forbes	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Moreno	2,200	23	Eocene-Paleocene	Meganos-Martinez	851	N.A.	1,080	III B 2M
S-1	2,600	12	Late Cretaceous	Starkey	611	N.A.	1,200	III B 2M
S-2	2,775	12	Late Cretaceous	Starkey	852	N.A.	1,250	III B 2M
S-3	2,900	15	Late Cretaceous	Starkey	827	N.A.	1,330	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	1,620	0	0	See Remarks	--	21	16	1,620

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400-1,700

CURRENT CASING PROGRAM: 8 5/8" cem. 900; 5 1/2" cem. through zone and across base of freshwater sands.

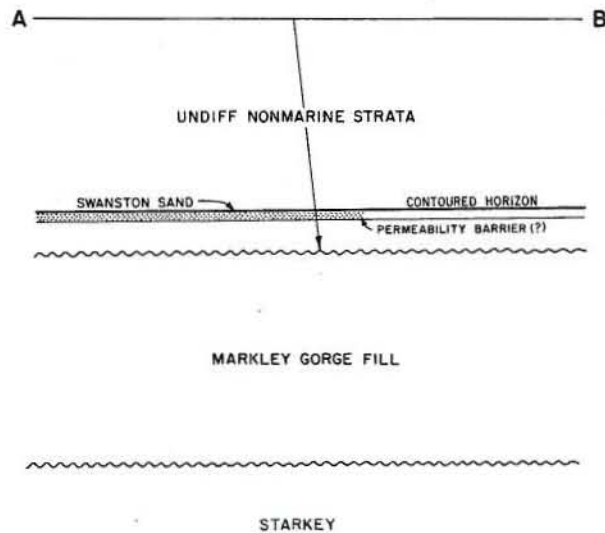
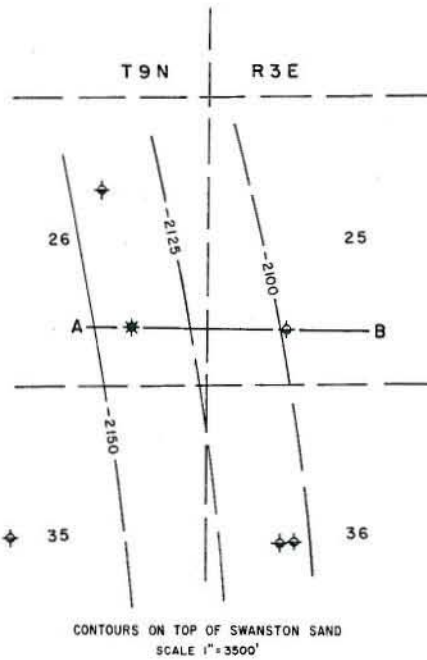
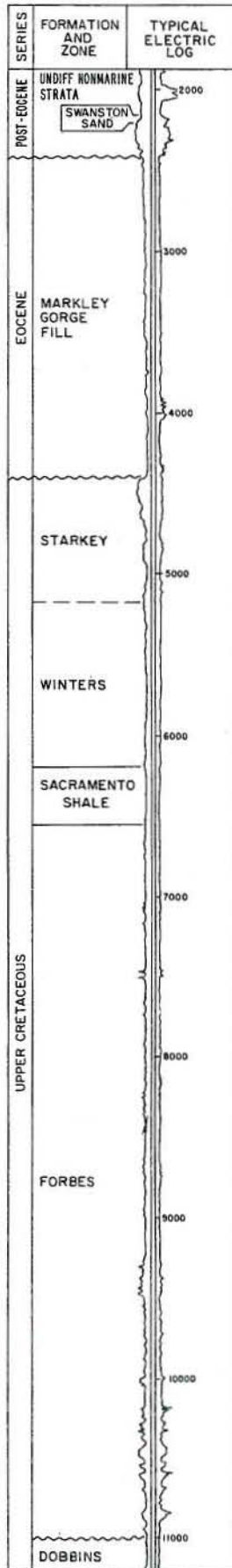
REMARKS: Commercial gas deliveries began in January 1977.

REFERENCES: None

January 1978



# SACRAMENTO BY-PASS GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

SACRAMENTO BY-PASS GAS FIELD

Yolo County

LOCATION: 6 miles west of Sacramento

TYPE OF TRAP: Permeability barrier on a homocline

ELEVATION: 22

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Swanston	Supreme Oil and Gas Corp. "Swanston" 1	Phillips Petroleum Co. "Swanston" 1	26 9N 3E	MD	1,150	760	1/4	Nov 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Sep 1961	26 9N 3E	MD	11,194	Dobbins	Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Swanston	2,160	8	post-Eocene	Undiff. nonmarine strata	850	N.A.	925	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	2,179	1,201	1967	3	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

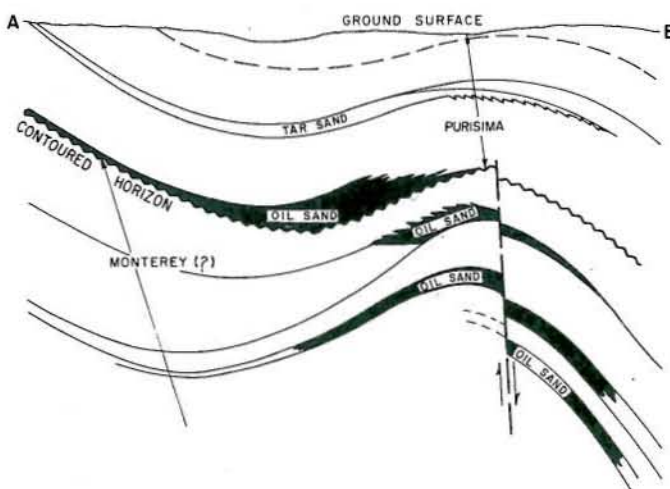
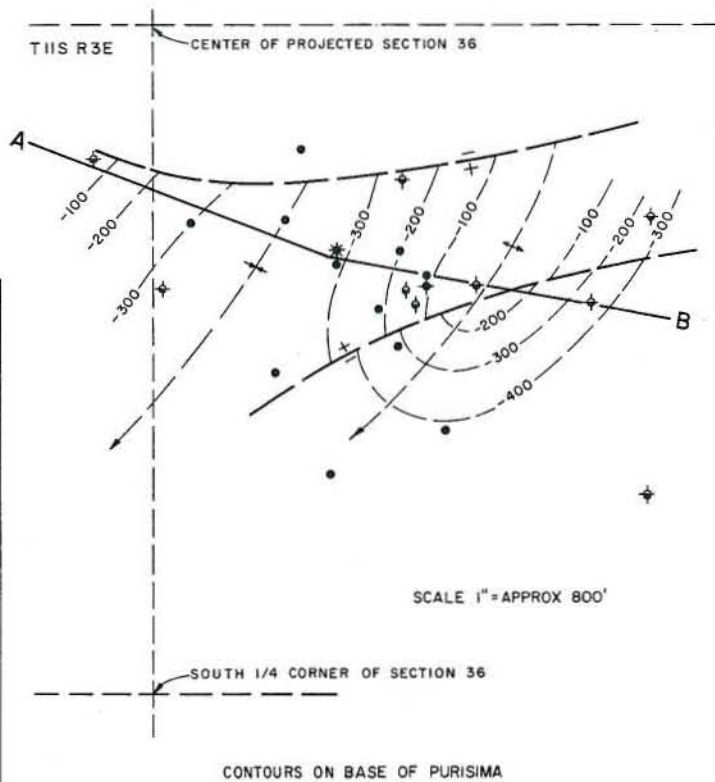
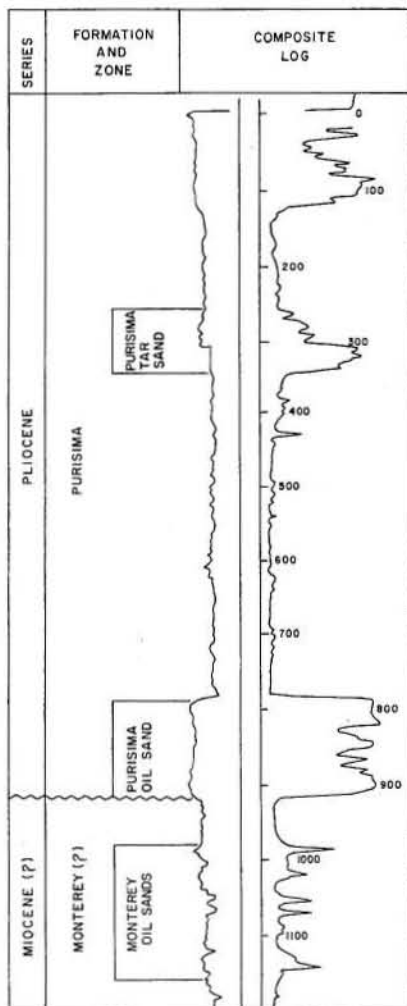
CURRENT CASING PROGRAM: 7" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The well produced gas from December 1967 to April 1968 and is now shut in.

REFERENCES:

# SARGENT OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

SARGENT OIL FIELD

Santa Clara County

LOCATION: 6 miles south of Gilroy

TYPE OF TRAP: Faulted anticline

ELEVATION: 400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tar	Sargent Oil Co. No. 1	Watsonville Oil Co. No. 1	36 11S 3E	MD	*40	N.A.	1906
Purisima	Same as above	Same as above	36 11S 3E	MD	*	N.A.	1906
1st Monterey	Same as above	Same as above	36 11S 3E	MD	*	N.A.	1906
2nd Monterey	Same as above	Same as above	36 11S 3E	MD	*	N.A.	1906
3rd Monterey	Same as above	Same as above	36 11S 3E	MD	*	N.A.	1906

Remarks: \* Combined production for all zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Sargent" 1	Same	Oct 1967	36 11S 3E	MD	6,972	N.A.	Miocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tar	300	75	Pliocene (?)	Purisima (?)	10	120	None
Purisima	600	130	Pliocene (?)	Purisima (?)	16	120	None
1st Monterey	850	50	Miocene (?)	Monterey (?)	17	60	None
2nd Monterey	1,000	50	Miocene (?)	Monterey (?)	17	60	None
3rd Monterey	1,100	30	Miocene (?)	Monterey (?)	17	60	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	10	0	788,651	275,070	63,780	1909	33	15	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: 200

CURRENT CASING PROGRAM: 8 5/8" cem. above objective zone; 5 3/4" liner landed through zone.

METHOD OF WASTE DISPOSAL: Sumps.

REMARKS: As early as 1861, oil was refined from asphaltum taken from "tar springs" in the vicinity of the field. Exploratory wells were drilled as early as 1886. Artesian salt water flow was reported at 1,615. A blowout was reported in one well at 1,082. The last oil production was in 1968.

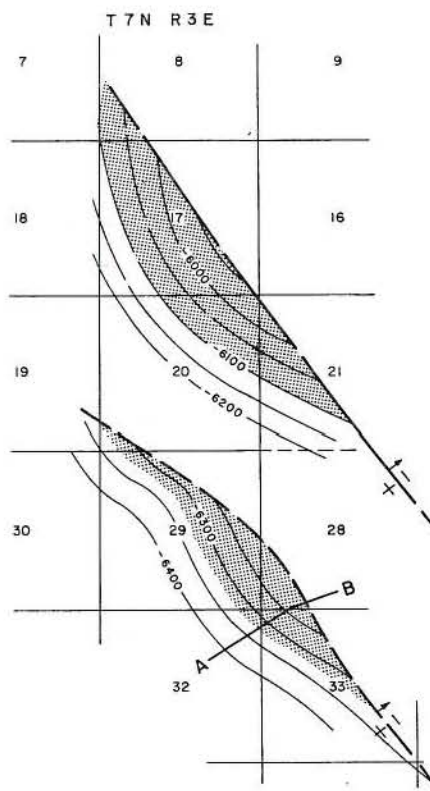
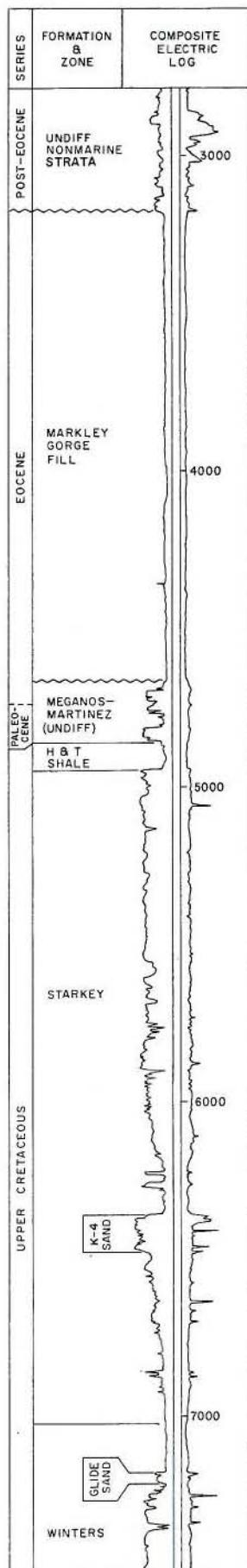
REFERENCES: Allen, J.E., Geology of the San Juan Bautista Quadrangle, Calif.: Calif. Div. of Mines Bull. 133, p. 73-74 (1946).

Calif. State Mining Bureau Bull. 69, p. 470 & 506 (1914).

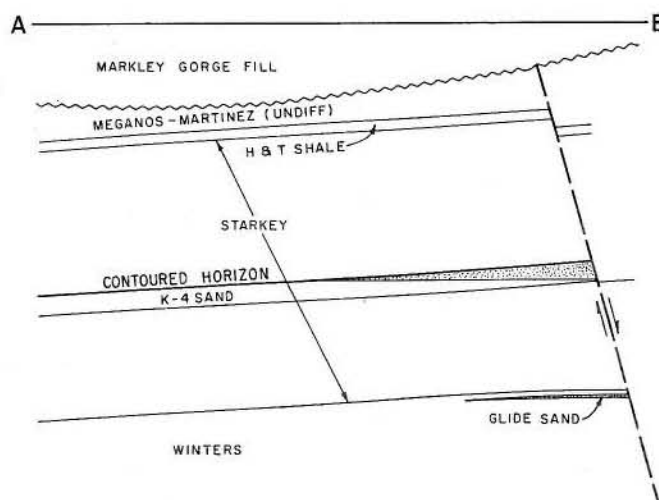
Davis, F.F., Mines and Mineral Resources of Santa Clara County Calif.: Calif. Div. of Mines, Calif. Journal of Mines and Geology Vol. 50, No. 2, p. 383-385 (1954).

Michelin, James, Sargent Oil Field: Calif. Div. of Mines Bull. 118, p. 23, 77, 79, and 475 (1943).

# SAXON GAS FIELD



CONTOURS ON TOP OF K-4 SAND





# CALIFORNIA DIVISION OF OIL AND GAS

SAXON GAS FIELD

Yolo County

LOCATION: 9 miles southeast of Davis

TYPE OF TRAP: Faulted noses

ELEVATION: 10

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
K-4	Signal Oil and Gas Co. "H & C - Glide Colby" 4	Same as present	29 7N 3E	MD	4,850	2,414	20/64	Nov 1968
Glide	Signal Oil and Gas Co. "H & C - Glide Colby" 1	Hunnicuttt & Camp Drilling Co. "Glide - Colby" 1	29 7N 3E	MD	4,950	2,225	20/64	Feb 1968

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Signal Oil and Gas Co. "H & C - Glide" 1	Same	Nov 1971	17 7N 3E	MD	9,400	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
K-4	6,280	30	Lt Cretaceous	Starkey	860	N.A.	2,865	IV
Glide	7,050	10	Lt Cretaceous	Winters	840	655	3,355	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,806,406	594	890	7	4,625,090	1,806,406	1972	16	9	890

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

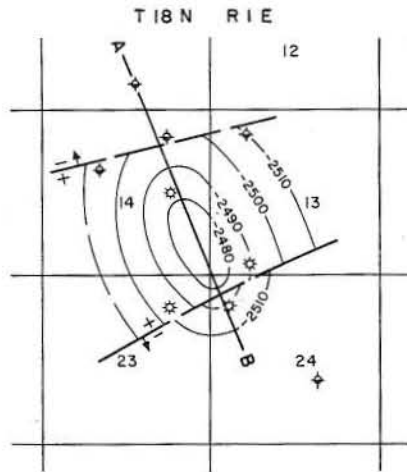
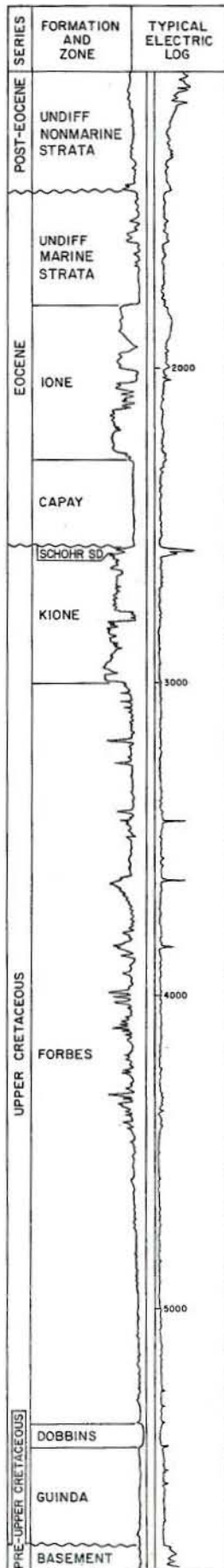
CURRENT CASING PROGRAM: 8 5/8" or 7" cem. 900; 5 1/2" or 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

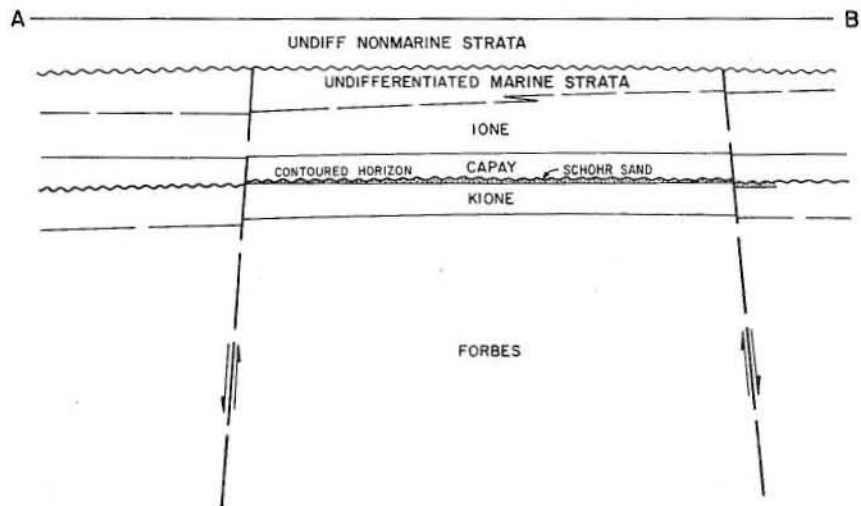
REMARKS: Commercial gas deliveries began in January 1970.

REFERENCES:

# SCHOHR RANCH GAS FIELD (Abandoned)



CONTOURS ON TOP OF SCHOHR SAND



## CALIFORNIA DIVISION OF OIL AND GAS

SCHOHR RANCH GAS FIELD (Abandoned)

Butte County

LOCATION: 10 miles east of Princeton

TYPE OF TRAP: Faulted anticline

ELEVATION: 85

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Schohr	Exxon Corp. "Elna B. Schohr" 1	Humble Oil & Refining Co. "Elna B. Schohr" 1	23 18N 1E	MD	5,073	800	1/2	Mar 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "Elna B. Schohr" 2	Humble Oil & Refining Co. "Elna B. Schohr" 2	May 1957	14 18N 1E	MD	5,830	Basement	pre-Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Schohr	2,570	15	Late Cretaceous	Kione	840	250	1,220	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	2,112,993	754,974	1960	8	4	360

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200

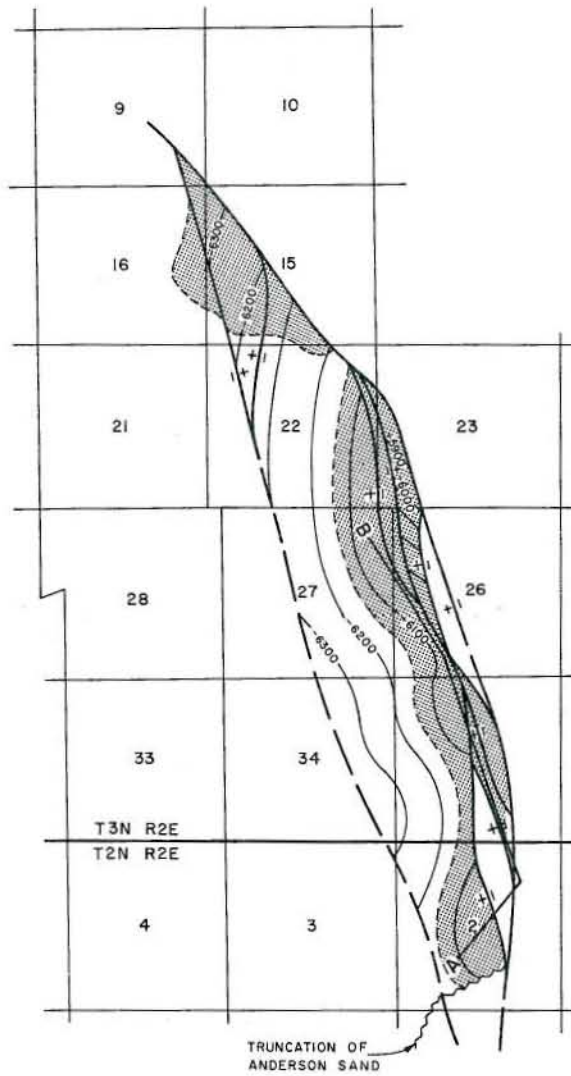
CURRENT CASING PROGRAM: 7" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

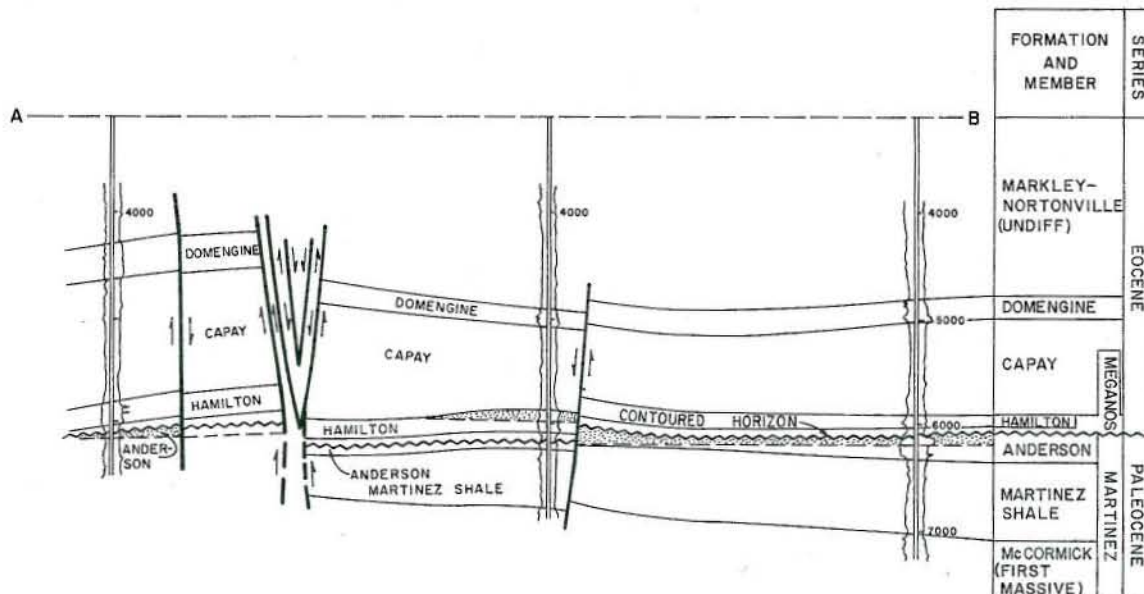
REMARKS: Commercial gas deliveries began in December 1959. The field was abandoned in March 1970.

REFERENCES:

# SHERMAN ISLAND GAS FIELD



CONTOURS ON TOP OF ANDERSON SAND



# CALIFORNIA DIVISION OF OIL AND GAS

## SHERMAN ISLAND GAS FIELD

Contra Costa, Sacramento, and Solano Counties (Field)  
(County)

LOCATION: 5 miles northeast of Antioch

ELEVATION: 10

### DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Nortonville	Q. R. Grenfell & Son "Dozier-Pressley" 2 Occidental Pet. Corp. "Reynolds Unit One" 1 Aminoil USA, Inc. "Upham" 1	Same	16 3N 2E	MD	1,248	1,540	3/16	July 1970
Hamilton		Occidental Pet. Corp. "F. H. Reynolds" 1	35 3N 2E	MD	2,297	1,835	1/4	Apr. 1966
Anderson		Same	27 3N 2E	MD	5,770	2,163	21/64	Sep. 1965

Remarks: Anderson zone initially yielded 19 bbl condensate (40% water cut); Hamilton zone yielded trace amounts of condensate.

### DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Upham" 1	Same	Oct. 1962	34 3N 2E	MD	12,067	D zone (Goudkoff)	Late Cret.

### PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville	4,770	7	Eocene	Nortonville	985	N.A.	1,874	III B 2M
Hamilton	5,750	75	Eocene	Meganos	1,016	1,810	2,591	III B 3M
Anderson	6,100	50	Paleocene	Martinez	1,028	10,000	3,112	III B 3M

### PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
841,742	157,511	1,100	6	28,647,159	6,166,271	1966	29	17	1,660

SPACING ACT: Applies

BASE OF FRESH WATER: 800

CURRENT CASING PROGRAM: 8 5/8" cem. 900; 5 1/2" cem. through zone.

REMARKS: Commercial gas deliveries began in October 1967. 1976 condensate production 1,832 bbl; cumulative condensate production 92,337 bbl.

REFERENCES: Ditzler, C. C., Sherman Island Gas Field, in Selected Papers Presented to San Joaquin Geological Society, Vol. 4, p. 21-25 (1972).

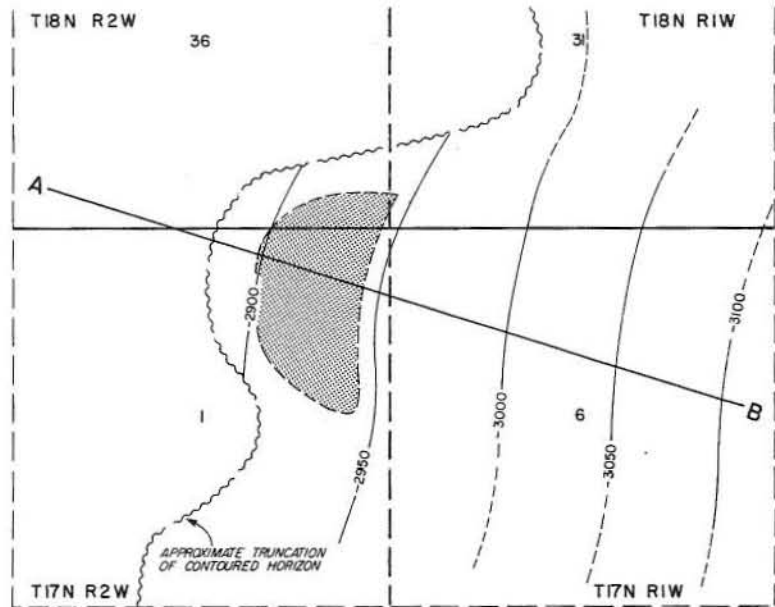
January 1978



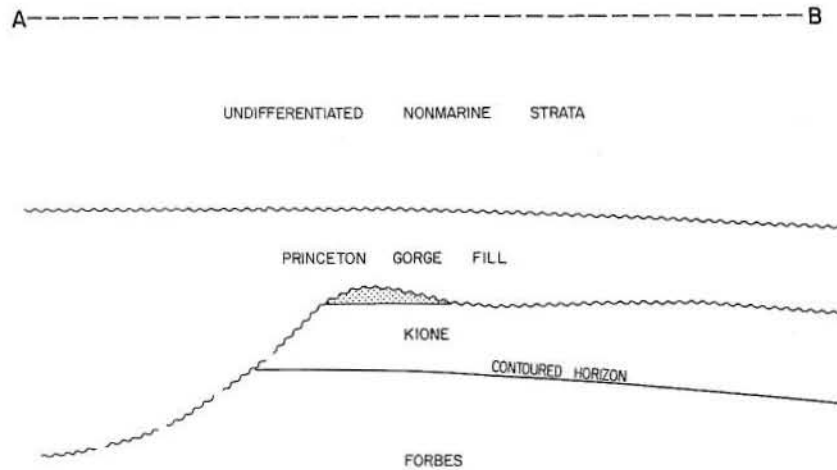
# STEGEMAN GAS FIELD

SERIES	FORMATION	TYPICAL ELECTRIC LOG
POST-Eocene	UNDIFF NONMARINE STRATA	
Eocene	PRINCETON GORGE FILL	
UPPER CRETACEOUS	GAS SAND	
	KIONE	
	FORBES	

JANUARY 1978



CONTOURS ON BASE OF KIONE



CALIFORNIA DIVISION OF OIL AND GAS

STEGEMAN GAS FIELD (Field)  
Colusa County (County)

LOCATION: 10 miles north of Colusa

ELEVATION: 73

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Shell Oil Co. "Thousand Acre Ranch 1" 1	Same	1 17N 2W	MD	13,000	N.A.	N.A.	July 1976

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Thousand Acre Ranch 1" 1	Same	June 1976	1 17N 2W	MD	4,085	Forbes	Late Cret.

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,490	20	Late Cretaceous	Kione	928	N.A.	1,110	III B 2M

PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	See Remarks	--	1	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,900

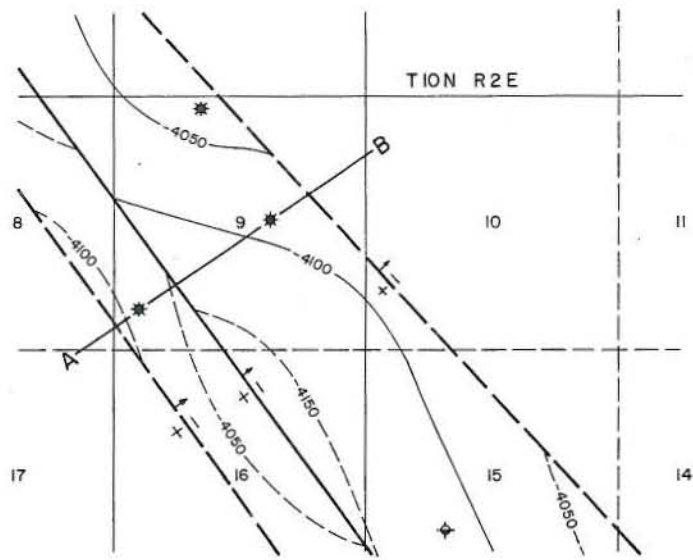
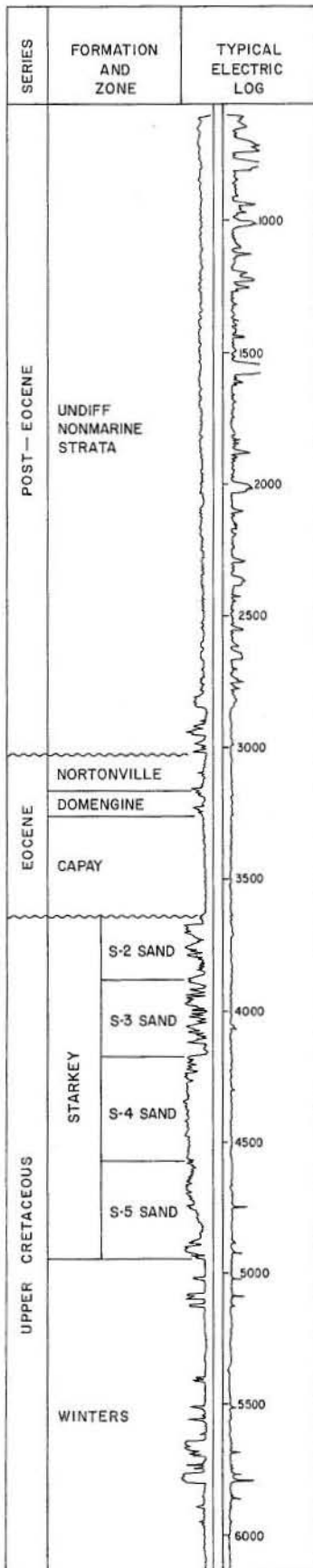
CURRENT CASING PROGRAM: 8 5/8" cem. 1,400; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries have not yet begun.

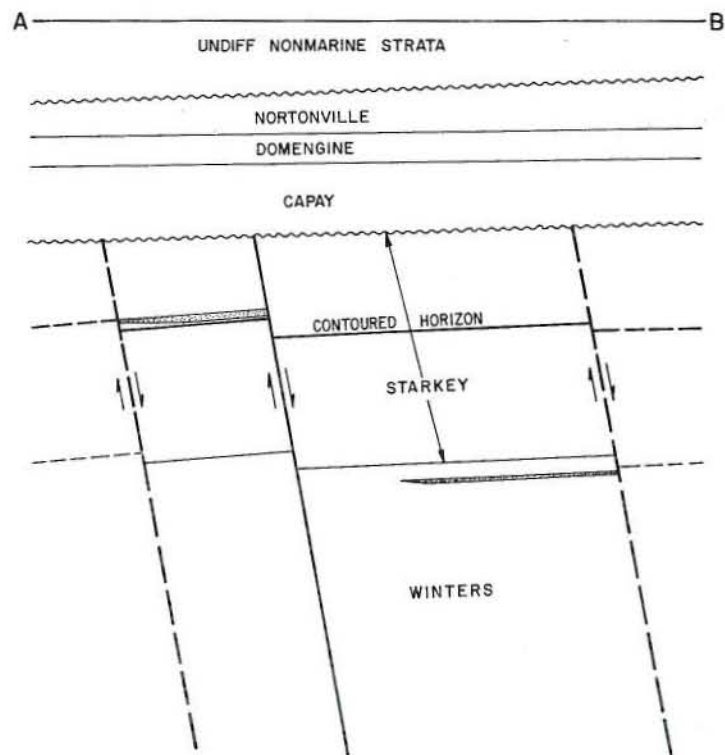
REFERENCES: None

January 1978

# SUGARFIELD GAS FIELD



CONTOURS ON TOP OF S-4 SAND



## CALIFORNIA DIVISION OF OIL AND GAS

SUGARFIELD GAS FIELD (Field)  
 Yolo County (County)

LOCATION: 3 miles northeast of Woodland

ELEVATION: 55

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
S-3 (Unnamed)	The Dow Chemical Co. "Unit 485" 1	Same	9 10N 2E	MD	1,380	1,550	3/16	Dec. 1977
	The Dow Chemical Co. "Wauhab" 1	Same	9 10N 2E	MD	4,020	1,750	20/64	July 1976

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
The Dow Chemical Co. "Wauhab" 1	Same	June 1976	9 10N 2E	MD	6,271	Nintars	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
S-3 (Unnamed)	4,080	30	Late Cretaceous	Starkey	N.A.	N.A.	1,780	III B 3M
	4,930	15	Late Cretaceous	Winters	N.A.	N.A.	2,240	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1977 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	160	0	0	See Remarks	--	3	3	160

SPACING ACT: Applies

BASE OF FRESH WATER: 2,400

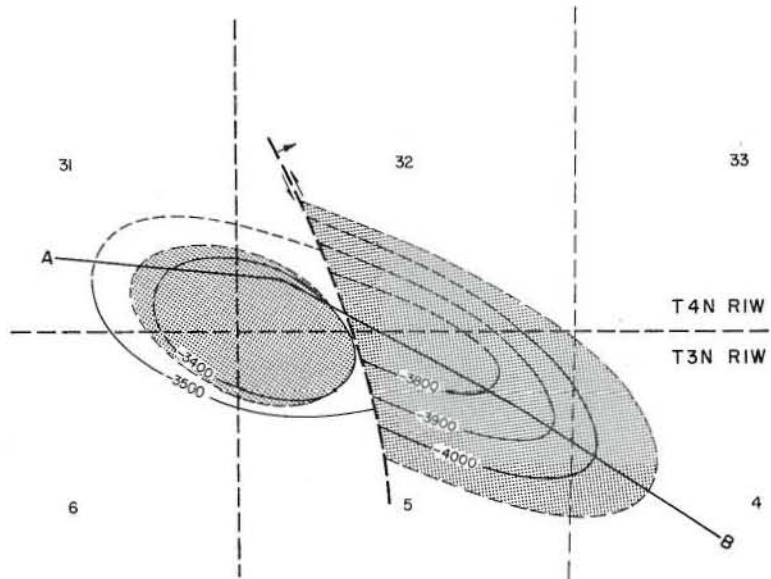
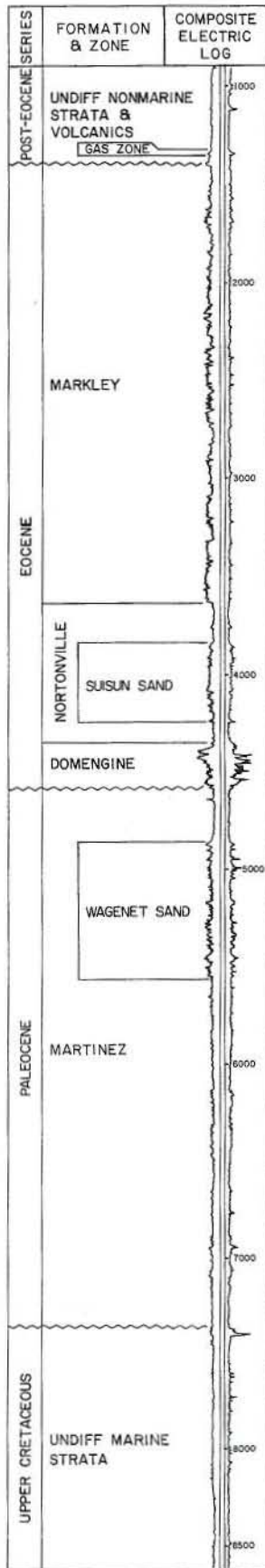
CURRENT CASING PROGRAM: 7" cem. 650; 4 1/2" cem. through zones and across base of freshwater sands.

REMARKS: Commercial gas deliveries have not yet begun.

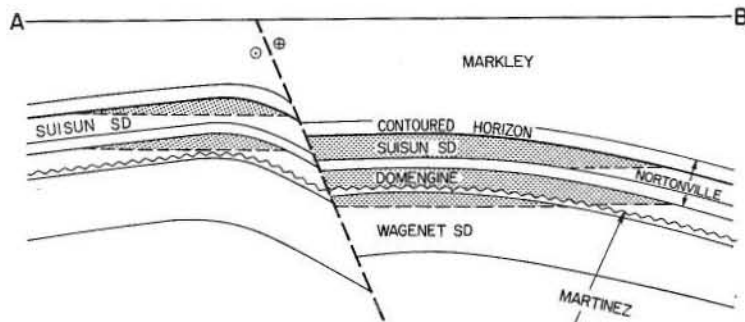
REFERENCES: None

January 1978

# SUISUN BAY GAS FIELD



CONTOURS ON TOP OF SUISUN SAND  
SCALE: 1" = 2800'



STRUCTURAL INTERPRETATION COURTESY OF  
STANDARD OIL COMPANY OF CALIFORNIA



# CALIFORNIA DIVISION OF OIL AND GAS

SUISUN BAY GAS FIELD

Solano County

LOCATION: 14 miles east of Vallejo

TYPE OF TRAP: Faulted anticline

ELEVATION: 15

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed)	General Crude Oil Co., Opr. "Standard-Suisun Comm." 10	G.E. Kadane & Sons "Suisun Community" 10-B	31 4N 1W	MD	835	225	3/8	Aug 1959
Suisun	Standard Oil Co. of Calif. "Suisun Community" 3	Same as present	5 3N 1W	MD	7,350	1,320	1/2	Sep 1944
Domengine	Standard Oil Co. of Calif. "Suisun Community" 3	Same as present	5 3N 1W	MD	5,675	1,025	1/2	Jan 1946
Wagenet	Standard Oil Co. of Calif. "Suisun Community" 12	Same as present	4 3N 1W	MD	2,620	760	3/8	Oct 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Suisun Community" 16	Same	Apr 1964	4 3N 1W	MD	8,898	G-2 Zone (Goudkoff)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	975	25	Pliocene	Sonoma Volcanics	1,020	45	420	IV
Suisun	3,650	175	Eocene	Nortonville	1,040	250 - 960	1,610	IV
Domengine	4,150	65	Eocene	Domengine	1,040	390 - 990	1,800	IV
Wagenet	4,650	80	Paleocene	Martinez	1,048	760	2,070	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
2,504,899	14,873	450	11	78,509,033	6,166,271	1966	22	16	720

SPACING ACT: Applies

BASE OF FRESH WATER: None

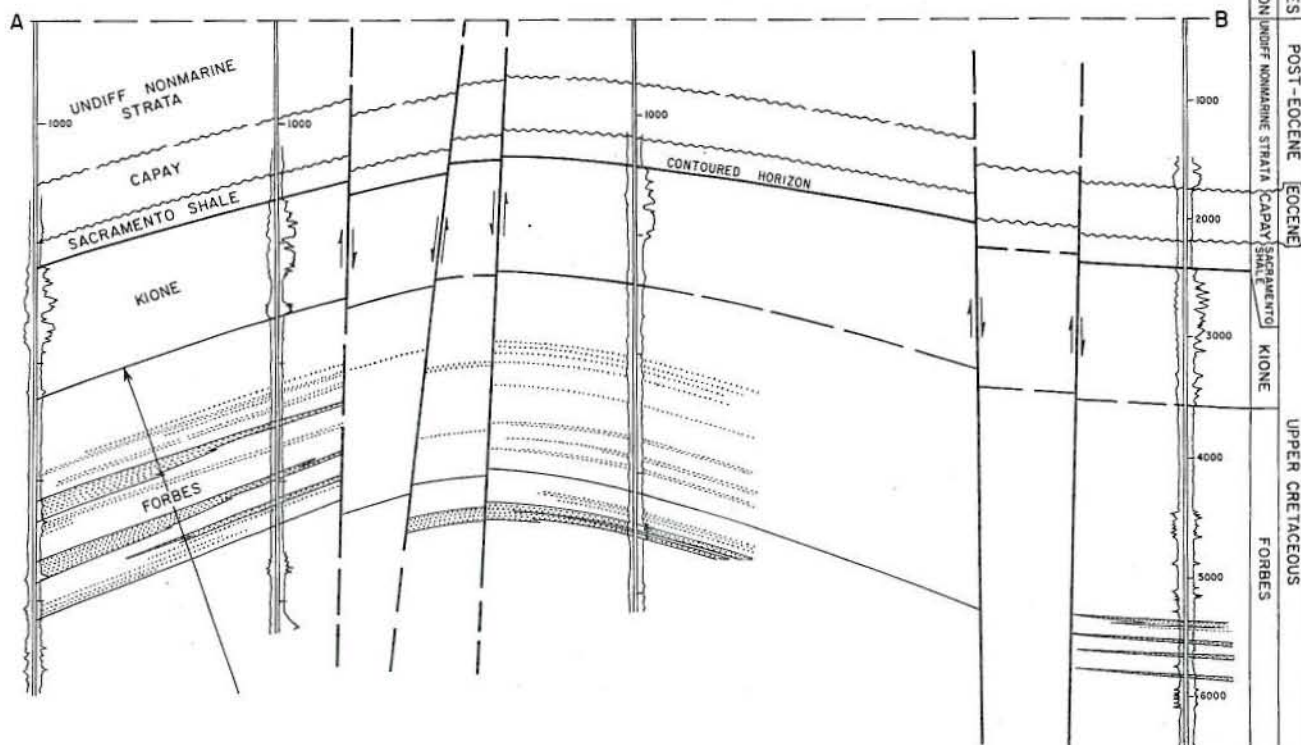
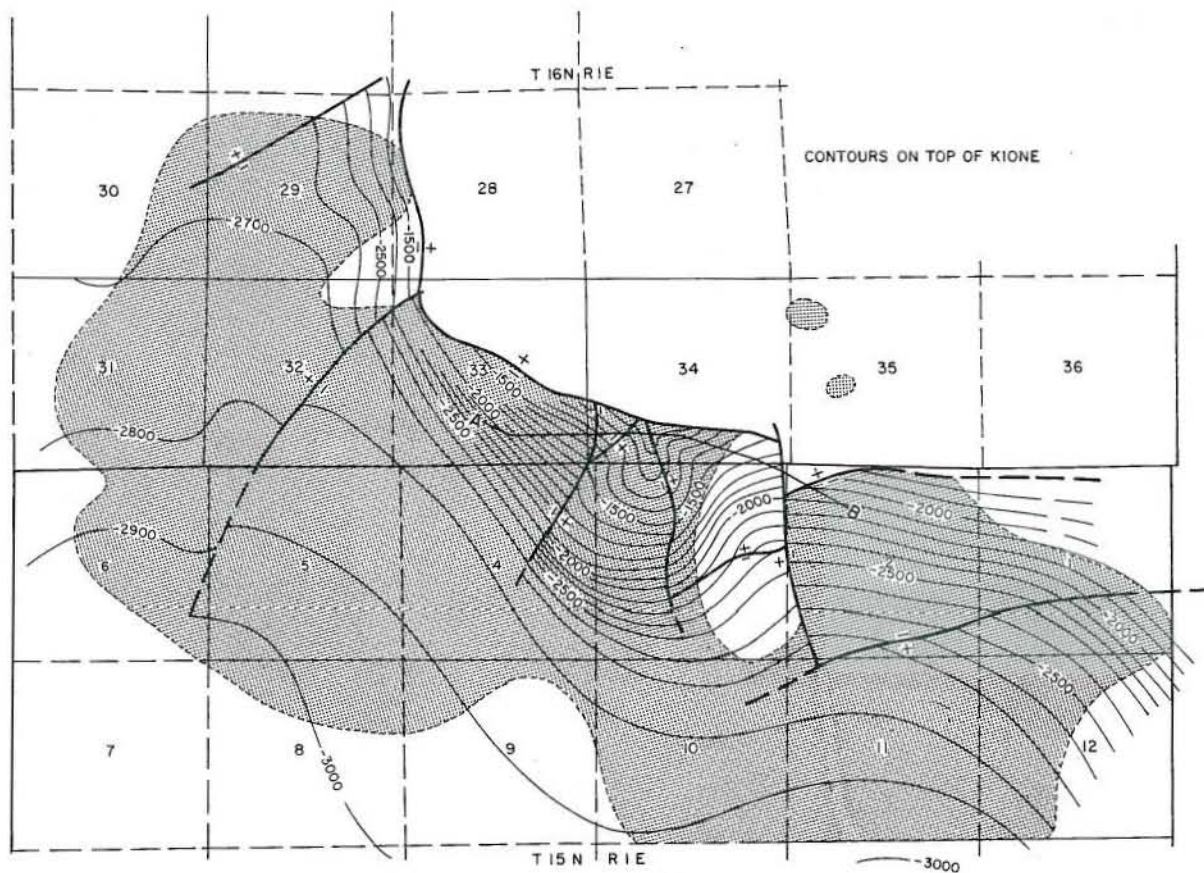
CURRENT CASING PROGRAM: 9 5/8" cem. 500 - 1,000; 5 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Disposal into sumps at well sites.

REMARKS: Commercial gas deliveries began in February 1947. 1972 condensate production 191 bbl.; cumulative condensate production 27,687 bbl.

REFERENCES:

# SUTTER BUTTES GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

SUTTER BUTTES GAS FIELD

Sutter County

LOCATION: 11 miles northwest of Yuba City

TYPE OF TRAP: Lenticular sands on a faulted nose and homocline adjacent to a volcanic plug

ELEVATION: 65 - 635

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed sand stringers)	Buttes Gas & Oil Co. "Buttes" 1	The Buttes Oilfields, Inc. "Buttes" 1	35 16N 1E	MD	3,060	N.A.	N.A.	Feb 1933

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Buttes Gas & Oil Co. "Buttes" 14	Same	Jul 1958	12 15N 1E	MD	7,868	Basement	pre-Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	2,100 - 6,000	1 - 60 per stringer	Lt Cretaceous	Forbes	905 - 1,020	210 - 1,830	1,500 - 4,300	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
7,583,495	45,752	8,520	52	123,244,379	15,201,294	1965	78	65	9,010

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

CURRENT CASING PROGRAM: 9 5/8" cem. 1,000 - 1,500; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: In 1972 all of the waste water was injected into a disposal well.

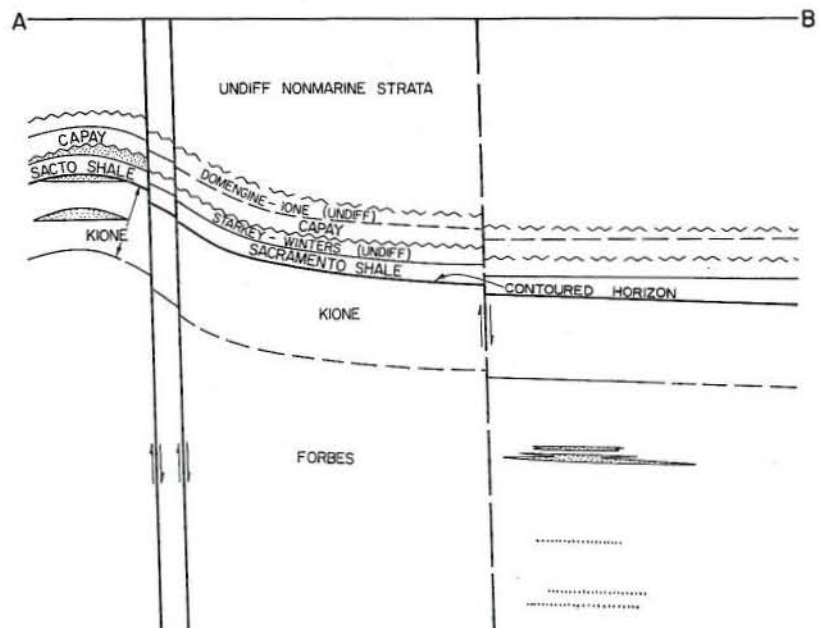
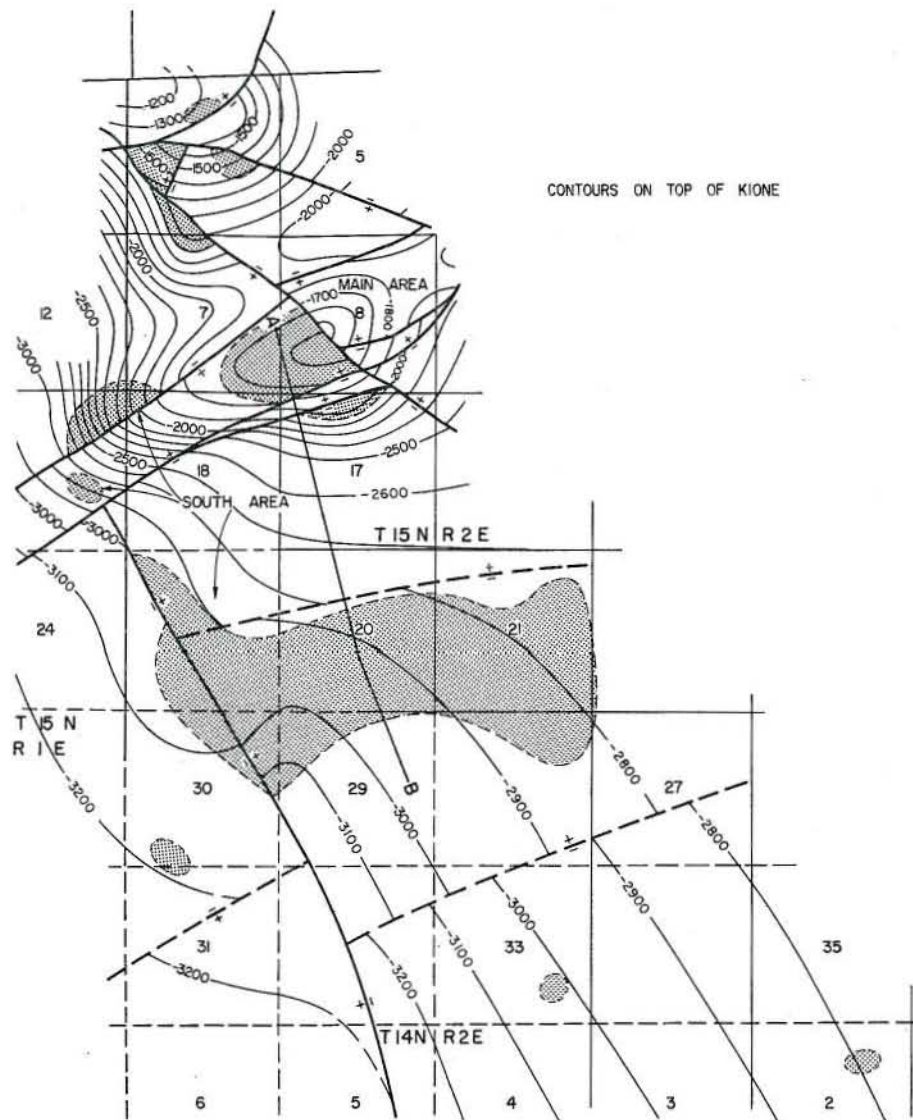
REMARKS: Formerly known as Marysville Buttes Gas Field. Commercial gas deliveries began in November 1938.

REFERENCES: Hunter, G.W., Marysville Buttes Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 1 (1955).  
Railroad Commission of the State of Calif. and Calif. Div. of Oil and Gas, Marysville Buttes Gas Field in Estimate of the Natural Gas Reserves of the State of Calif. as of January 1, 1941: Case No. 4591, Special Study No. S-258, p. 236-241 (1942).



# SUTTER CITY GAS FIELD

SERIES	FORMATION	TYPICAL ELECTRIC LOG
POST-EOCENE	UNDIFFERENTIATED NONMARINE STRATA	
EOCENE	DOMENGINE-IONE (UNDIFF)	
	CAPAY	
	STARKEY-WINTERS (UNDIFF)	
	SACRAMENTO SHALE	
	KIONE	
UPPER CRETACEOUS	FORBES	



CALIFORNIA DIVISION OF OIL AND GAS

SUTTER CITY GAS FIELD

Sutter County

LOCATION: 9 miles northwest of Yuba City

TYPE OF TRAP: See Areas

ELEVATION: 40 - 500

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed)	Buttes Gas & Oil Co. "Sutter Community A" 1	Richfield Oil Corp. "Sutter Community A" 1	8 15N 2E	MD	280	900	1/8	Aug 1952

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Oil Co. "Sutter Unit K" 1	Same	Dec 1961	30 15N 2E	MD	7,925	Guinda	Late Cret

PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				

PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
4,975,956	23,449	3,320	26	61,564,860	6,185,931	1966	55	32	3,400

SPACING ACT: Applies

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: Commercial gas deliveries began in June 1953.

REFERENCES:



# CALIFORNIA DIVISION OF OIL AND GAS

SUTTER CITY GAS FIELD

Sutter County

## MAIN AREA

LOCATION: See map sheet of Sutter City Gas Field

TYPE OF TRAP: Faulted anticline; faulted noses; lenticular sands

ELEVATION: 40 - 500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed)	Buttes Gas & Oil Co. "Sutter Community A" 1	Same as present	8 15N 2E	MD	655	190	25/64	Jun 1964*
Kione	Same as above	Richfield Oil Corp. "Sutter Community A" 1	8 15N 2E	MD	280	900	1/8	Aug 1952

Remarks: \* Date of recompletion; originally completed in Kione.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Buttes Gas & Oil Co. Butte Community B" 6	Richfield Oil Corp. "Butte Community B" 6	Nov 1952	7 15N 2E	MD	5,084	*Rhyolite	Plio or Pleis

\* Intruded into Upper Cretaceous Forbes formation

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	1,440	30	Lt Cretaceous	Starkey-Winters (Undiff.)	N.A.	N.A.	650	IV
Kione	1,700	140	Lt Cretaceous	Kione	920	130	800	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,143,867	12,813	400	8	16,869,934	2,062,265	1958	24	11	400

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200 - 1,700

CURRENT CASING PROGRAM: 8 5/8" cem. 500 or 9 5/8" cem. 1,500 (depending on objective zone); 5 1/2" or 4 1/2" cem. through zones. Base of fresh water protected by cement behind casing.

METHOD OF WASTE DISPOSAL: Waste water is hauled by truck to Sutter Buttes Gas field and injected into disposal well. Disposal of small quantities of water into sumps.

REMARKS: Commercial gas deliveries began in June 1953.

## REFERENCES:

## CALIFORNIA DIVISION OF OIL AND GAS

SUTTER CITY GAS FIELD

Sutter County

## SOUTH AREA

LOCATION: See map sheet of Sutter City Gas Field

TYPE OF TRAP: Lenticular sands on faulted homocline

ELEVATION: 50

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed sand stringers)	Atlantic Oil Co. "Epperson" 1	Same as present	19 15N 2E	MD	A 2,000	1,600	15/64	Aug 1961
G Zone	Atlantic Oil Co. "Epperson" 2	Same as present	20 15N 2E	MD	B 8,000 6,000	2,000 1,800	27/64 25/64	Sep 1961

Remarks: A Dually completed from two intervals in the Forbes formation.  
 B Commingled Forbes and G-zone production

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Oil Co. "Sutter Unit K" 1	Same	Dec 1961	30 15N 2E	MD	7,925	Guinda	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	3,950 - 6,830	3 - 50 per stringer	Lt Cretaceous	Forbes	749 - 1,019	127 - 1,300	2,040 - 3,500	IV
G Zone	6,160 - 6,620	5 - 20 per stringer	Lt Cretaceous	Dobbins	1,000 (est)	N.A.	3,210	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
3,832,089	10,636	2,920	18	44,694,926	5,787,788	1966	31	21	3,000

SPACING ACT: Applies

BASE OF FRESH WATER: above 1,000

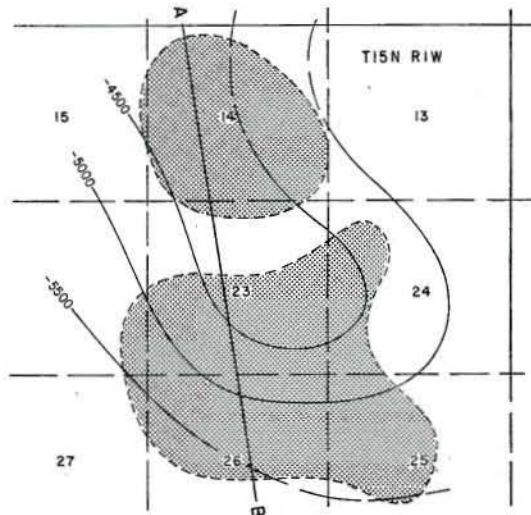
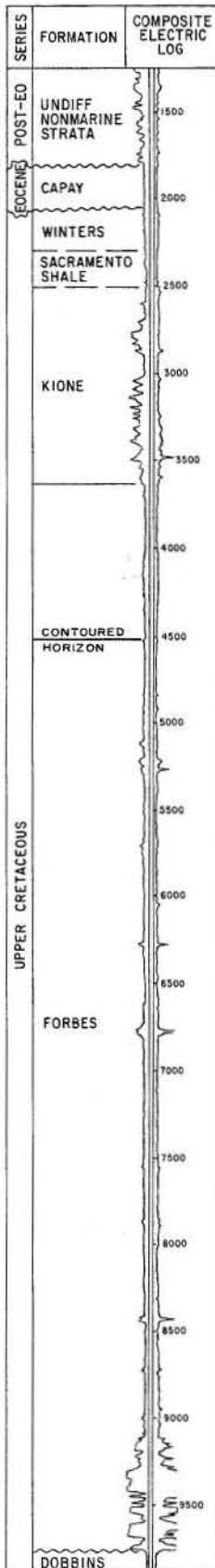
CURRENT CASING PROGRAM: 16" cem. 300; 9 5/8" cem. 2,500 or 8 5/8" cem. 1,500 and across base of fresh-water sands; 5 1/2" or 4 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Waste water is hauled by truck to Sutter Buttes Gas field and injected into disposal well. Disposal of small quantities of water into sumps.

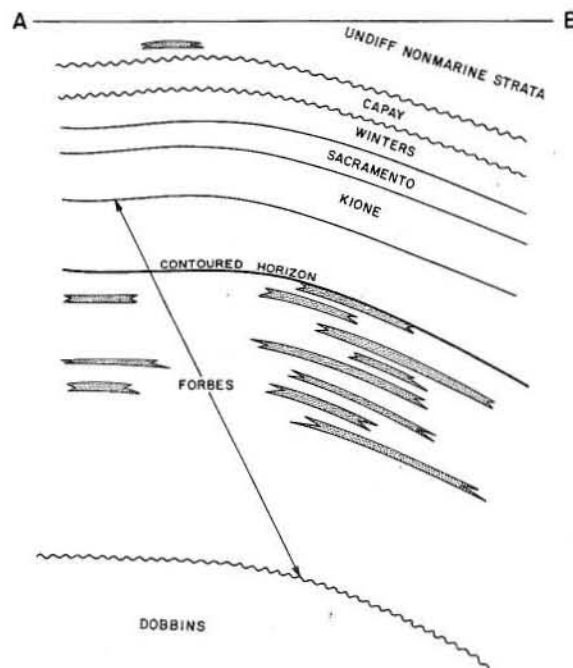
REMARKS: Commercial gas deliveries began in June 1962.

REFERENCES:

# SYCAMORE GAS FIELD



CONTOURS ON TOP OF FIRST FORBES PROD SAND & EQUIV.



# CALIFORNIA DIVISION OF OIL AND GAS

SYCAMORE GAS FIELD

Colusa and Sutter Counties

LOCATION: 6 miles southeast of Colusa

TYPE OF TRAP: Lenticular sands on nose

ELEVATION: 60

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Beam size (in)	
(Unnamed) Kione	A Exxon Corp. "O.P. Davis" B-1 Buttes Gas & Oil Co. "Buttes-RX Unit 23" 2	Humble Oil & Rfg. Co. "O.P. Davis" B-1 Alpine Oil Co., Inc. "RX Unit" 1	14 15N 1W 23 15N 1W	MD MD	1,810 3,800	560 600	3/8 1/2	Sep 1956 Feb 1970
(Unnamed sand stringers)	Exxon Corp. "O.P. Davis" B-2	Humble Oil & Rfg. Co. "O.P. Davis" B-2	26 15N 1W	MD	B 950 2,730	975 1,000	19/64 24/64	Apr 1962

Remarks: A This was the discovery well of Meridian Gas field, which was merged into Sycamore Gas field effective January 1, 1966.  
B Dually completed from separate intervals in the Forbes formation.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "O.P. Davis" B-6	Humble Oil & Rfg. Co. "O.P. Davis" B-6	Jun 1962	22 15N 1W	MD	10,014	Dobbins	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	1,480	25	post-Eocene	Undiff. nonmarine strata	810	N.A.	N.A.	IV
Kione	2,750	40	Lt Cretaceous	Kione	930	N.A.	1,180	IV
(Unnamed sand stringers)	4,734 - 7,370	4 - 40 per stringer	Lt Cretaceous	Forbes	980 - 1,010	1,100 - 1,940	2,860 - 5,720	IV - V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,501,097	18,218	1,710	7	14,255,455	2,099,421	1968	15	11	1,710

SPACING ACT: Applies

BASE OF FRESH WATER: 750

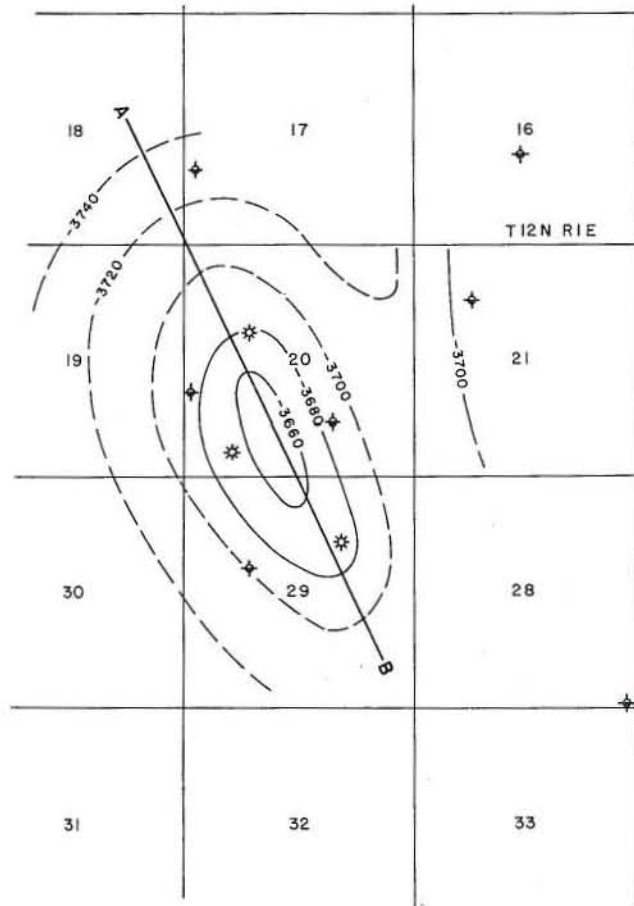
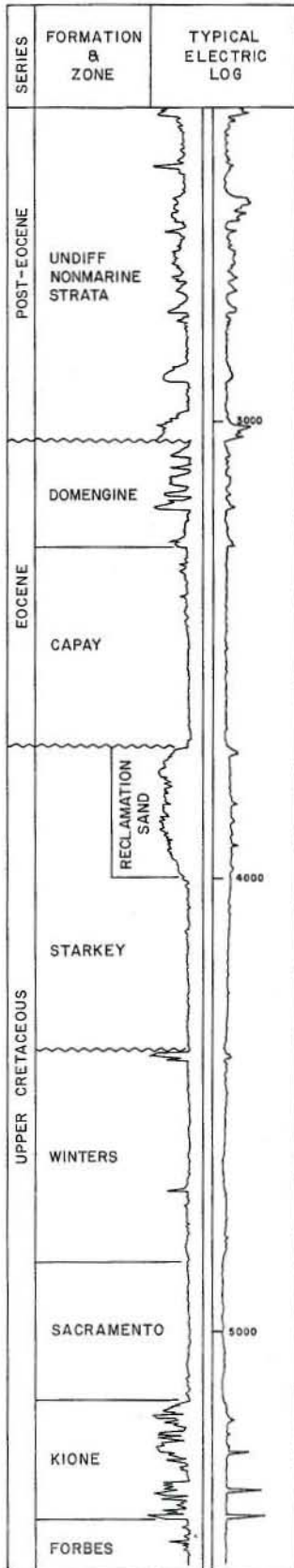
CURRENT CASING PROGRAM: 13 3/8" cem. 350; 9 5/8" cem. 3,000 and across base of fresh-water sands; 5 1/2" or 4 1/2" cem. through zones.

METHOD OF WASTE DISPOSAL: Disposal into sumps.

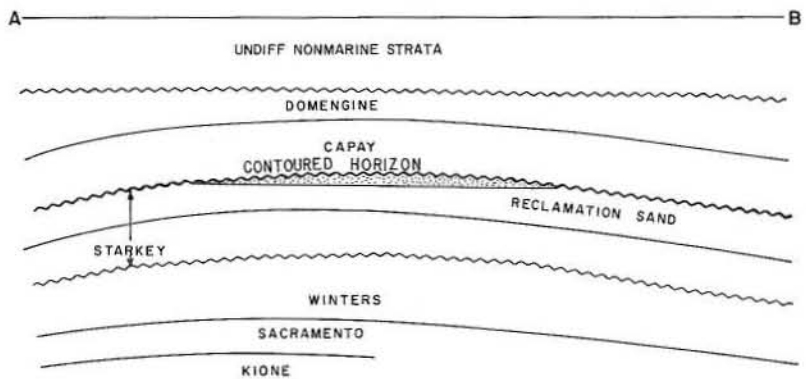
REMARKS: Several wells were completed with multiple strings of 2 7/8" tubing instead of 5 1/2" or 4 1/2" casing. Commercial gas deliveries began in January 1963.

REFERENCES:

# SYCAMORE SLOUGH GAS FIELD (Abandoned)



CONTOURS ON TOP OF RECLAMATION SAND





# CALIFORNIA DIVISION OF OIL AND GAS

SYCAMORE SLOUGH GAS FIELD (Abandoned)

Yolo County

LOCATION: 13 miles northwest of Woodland

TYPE OF TRAP: Anticline

ELEVATION: 35

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Reclamation	Signal Oil and Gas Co. "Signal-Monterey-Reclamation" 1	Same as present	20 12N 1E	MD	4,200	1,100	1/2	Oct 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Sep 1953	20 12N 1E	MD	5,500	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Reclamation	3,720	25	Lt Cretaceous	Starkey	1,010	230	1,650	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	714,277	181,114	1957	6	3	160

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

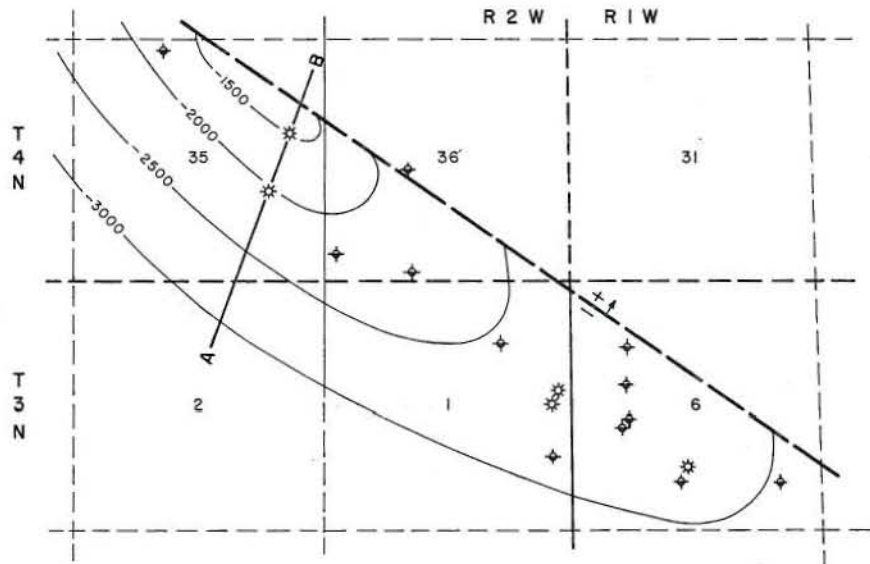
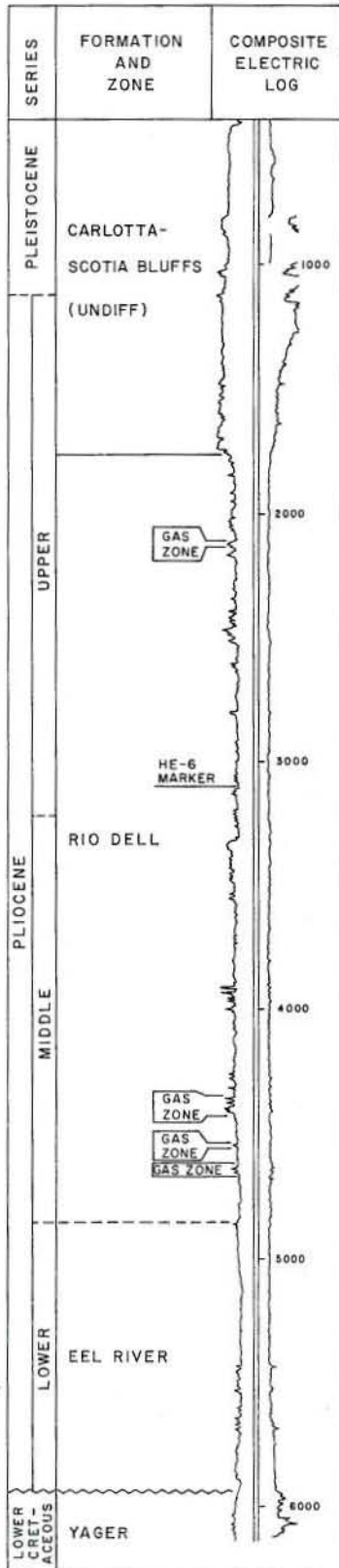
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" or 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

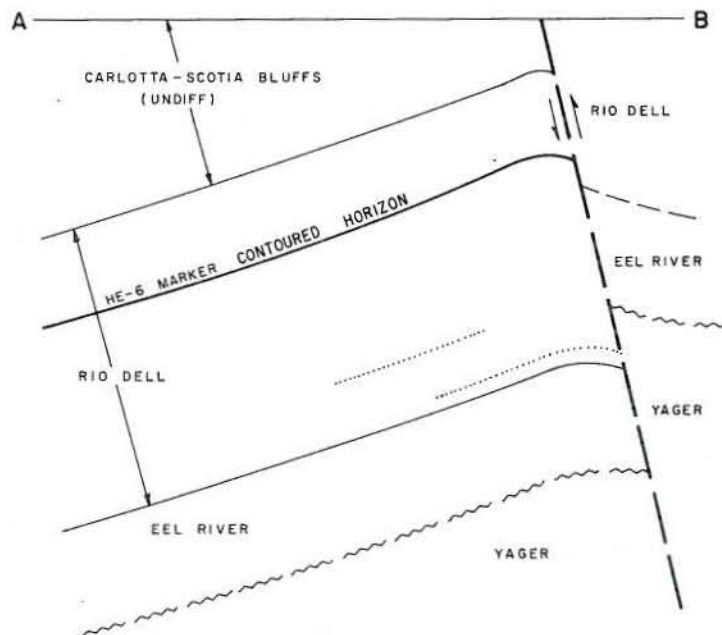
REMARKS: Commercial gas deliveries began in August 1956. The field was abandoned in March 1966.

REFERENCES:

# TABLE BLUFF GAS FIELD (Abandoned)



CONTOURS ON HE-6 ELECTRIC LOG MARKER



## CALIFORNIA DIVISION OF OIL AND GAS

TABLE BLUFF GAS FIELD (Abandoned)

Humboldt County

LOCATION: 9 miles southwest of Eureka

TYPE OF TRAP: Faulted anticline; lenticular sands

ELEVATION: 210 - 460

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed sand stringers)	Zephyr Oil Co. "Leon Oro Blanco" T-2	Same as present	6 3N 1W	H	1,500	650	13/32	Jul 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Texaco Inc. "Eureka" 1	The Texas Co. "Eureka" 1	Nov 1934	1 3N 2W	H	6,133	Yager	Early Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	2,100 - 4,775	1 - 40 per stringer	Pliocene	Rio Dell	1,035	N.A.	550 - 1,500	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	108,924	43,219	1962	17	5	320

SPACING ACT: Applies

BASE OF FRESH WATER: 700 - 1,000

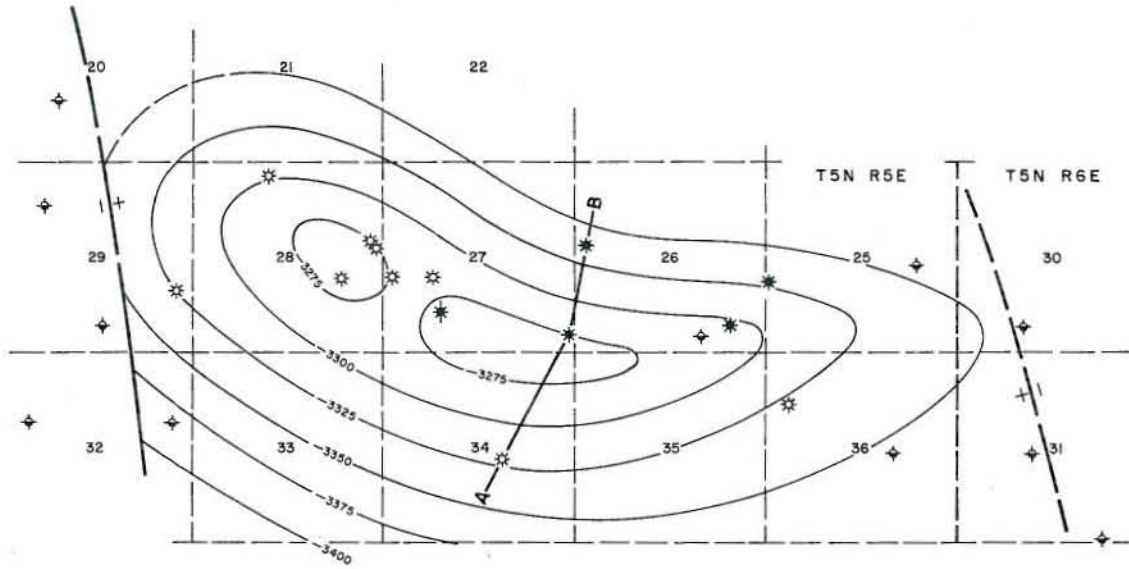
CURRENT CASING PROGRAM: 9 5/8" cem. 600; 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

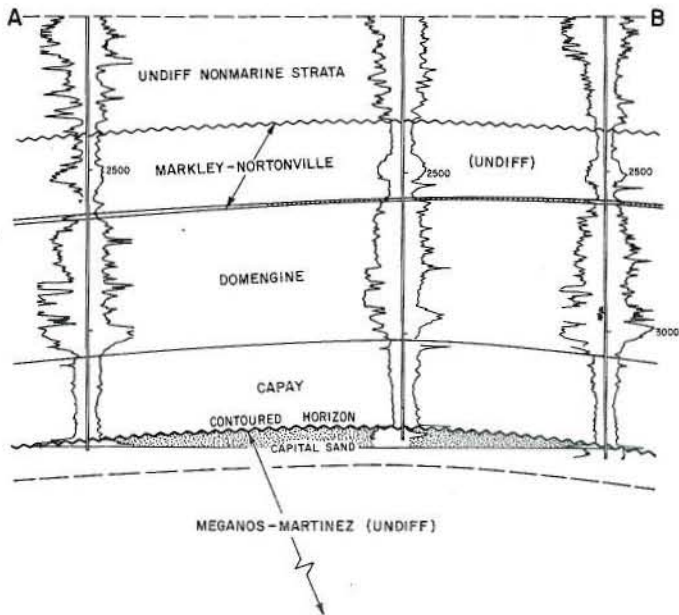
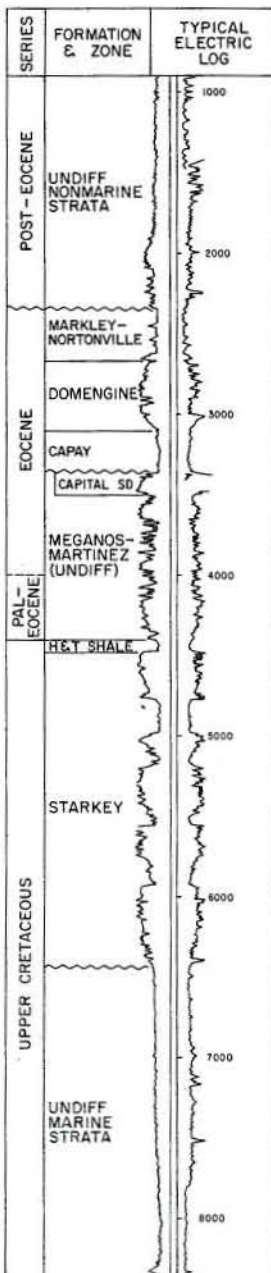
REMARKS: Commercial gas deliveries began in August 1962. The field was abandoned in December 1968.

REFERENCES:

# THORNTON GAS FIELD



CONTOURS ON TOP OF CAPITAL SAND



## CALIFORNIA DIVISION OF OIL AND GAS

THORNTON GAS FIELD

Sacramento and San Joaquin Counties

LOCATION: 23 miles south of Sacramento

TYPE OF TRAP: Anticline; lenticular sands

ELEVATION: 20

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed) A	Sage Oil Co., Inc. "Goodfellow-Capital" 1	Amerada Pet. Corp. "Goodfellow-Capital Co." 1	26 SN SE	MD	810	640	1/4	May 1970
(Unnamed) A Capital	Sage Oil Co., Inc. "A.W. Goodfellow" 1	Amerada Pet. Corp. "Goodfellow" 1	25 SN SE	MD	900	1,000	5/16	May 1961
	Amerada Hess Corp., Opr. "Capital Co." 1	Amerada Pet. Corp. "Capital Co." 1	36 SN SE	MD	6,900	805	3/8	Jul 1943

Remarks: A Locally referred to as Deadhorse sand stringers.

B Date of recompletion; originally completed in Capital zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Amerada Hess Corp., Unit Opr. "Capital Co." 6	Amerada Pet. Corp. "Capital Co." 6	Jun 1963	27 SN SE	MD	10,214	Granitic basement	pre-Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,315	25	Eocene	Markley - Nortonville	N.A.	N.A.	750	IV
(Unnamed)	2,580	15	Eocene	Markley - Nortonville	985	N.A.	1,130	IV
Capital	3,300	30	Eocene	Meganos	960	550	1,500	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
124,987	54,462	1,340	3	53,535,963	4,063,765	1957	21	14	3,160

SPACING ACT: Applies

BASE OF FRESH WATER: 600

CURRENT CASING PROGRAM: 9 5/8" cem. 600; 5 1/2" cem. through zone.

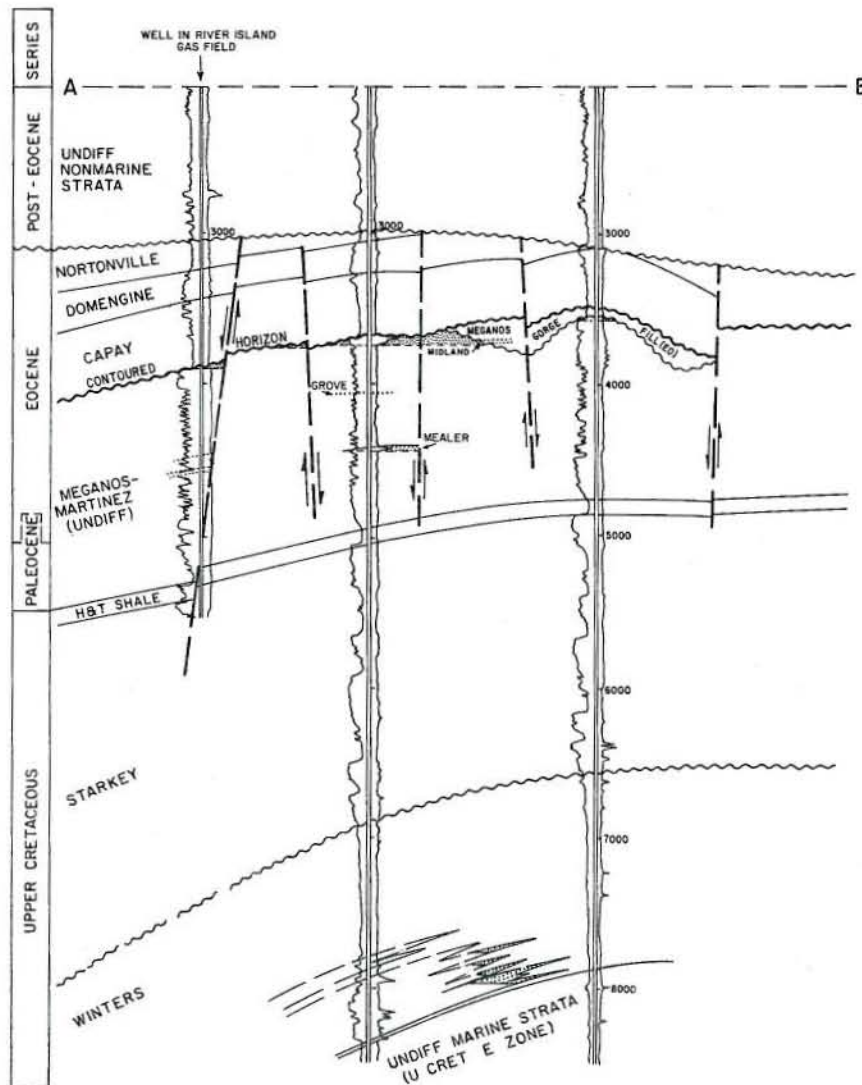
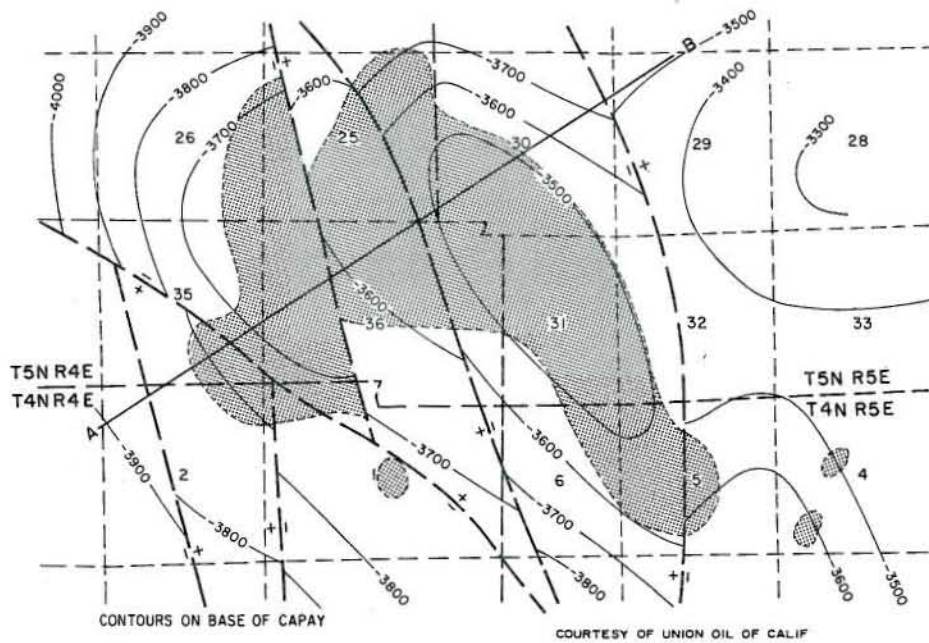
METHOD OF WASTE DISPOSAL: Disposal of waste water into sumps.

REMARKS: Commercial gas deliveries began in December 1946.

REFERENCES: Loken, K.P., Thornton Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).



# WEST THORNTON-WALNUT GROVE GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

THORNTON, WEST, WALNUT-GROVE GAS FIELD

Sacramento and San Joaquin Counties

LOCATION: 22 miles south of Sacramento; 7 miles east of Rio Vista

TYPE OF TRAP: Faulted anticline; lenticular sands; truncation by gorge

ELEVATION: 16

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Burchell	Brazos Oil and Gas Co. "Burchell et al Unit" 1	Same as present	1 4N 4E	MD	700	825	12/64	Aug 1961
Deadhorse	Texaco Inc. "Wilson-McCall" 1	Texaco Inc. "Wilson-McCall" 2	1 4N 4E	MD	6,140	1,025	1/2	Aug 1959
Nortonville stringers	Union Oil Co. of Calif. "Walnut Grove Unit A" 2	Brazos Oil and Gas Co., Opr. "Walnut Grove Unit A" 2	36 5N 4E	MD	1,550	1,025	1/4	May 1960
Domengine	Standard Oil Co. of Calif. "McCormack-Williamson" 15	Same as present	36 5N 4E	MD	2,170	605	3/8	Jun 1964
Capay stringers	Texaco Inc. "Cowell Foundation" 2	Same as present	31 5N 5E	MD	1,100	1,230	3/16	Mar 1961
Meganos Gorge	Standard Oil Co. of Calif. "McCormack-Williamson" 4	Same as present	36 5N 4E	MD	2,125	1,600	1/4	May 1959
Midland	Standard Oil Co. of Calif. "McCormack-Williamson" 1	E.L. Doheny, Opr., "McCormack-Williamson" 1	30 5W 5E	MD	1,750	1,135	1/4	Jul 1956
Grove	Union Oil Co. of Calif. "Walnut Grove Unit A" 1	Brazos Oil and Gas Co. Opr. "Walnut Grove Unit A" 1	35 5N 4E	MD	2,350	1,410	16/64	May 1966
(Unnamed)	Union Oil Co. of Calif. "Unit Line Well" 2	Same as present	26 5N 4E	MD	1,100	1,500	3/16	Nov 1970
Fong	Union Oil Co. of Calif. "Unit Line Well" 2	Same as present	26 5N 4E	MD	3,065	1,450	12/64	Oct 1967
Mealer	Union Oil Co. of Calif. "Walnut Grove Unit A" 1	Brazos Oil and Gas Co. Opr. "Walnut Grove Unit A" 1	35 5N 4E	MD	2,400	1,580	1/4	Jul 1958
(Sand stringers)	Union Oil Co. of Calif. "Locke Unit 1" 1	Brazos Oil and Gas Co. Opr. "Locke Unit 1" 1	26 5N 4E	MD	2,100	2,465	12/64	Jul 1959

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "McCormack-Williamson" 9	Same	Jul 1961	25 5N 4E	MD	12,628	Basement (granite)	pre-Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Burchell	2,410	6	post-Eocene	Undiff. nonmarine strata	N.A.	135 g/g	1,100 (est)	IV
Deadhorse	2,810	30	Eocene	Markley	1,000	500	1,285	IV
Nortonville stringers	2,980	3 - 6 per stringer	Eocene	Nortonville	1,000	350	1,400	IV
Domengine	2,880	25	Eocene	Domengine	970	N.A.	1,390	IV
Capay stringers	3,280	3 per stringer	Eocene	Capay	1,000	N.A.	1,420	IV
Meganos Gorge	3,680	15	Eocene	Meganos Gorge fill	N.A.	N.A.	1,540	IV
Midland	3,560	60	Eocene	Meganos	955 - 980	670	1,620	IV
Grove	4,060	10	EO - Paleo	Meganos-Martinez	970	N.A.	1,790	IV
(Unnamed)	4,130	25	EO - Paleo	Meganos-Martinez	950 - 980	N.A.	1,810	IV
Fong	4,240	35	EO - Paleo	Meganos-Martinez	955	N.A.	1,815	IV
Mealer	4,420	25	EO - Paleo	Meganos-Martinez	940 - 980	N.A.	2,010	IV
(Sand stringers)	7,460 - 8,300	10 - 30 per stringer	Cretaceous	Winters	920	525 - 1,565	3,550 - 3,900	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
2,564,352	25,631	2,190	13	113,290,176	15,486,111	1964	76	53	3,310

SPACING ACT: Applies

BASE OF FRESH WATER: 800 - 1,300

CURRENT CASING PROGRAM: 13 3/8" to 7" cem. 500 to 1,500; 8 5/8" or 7" cem. 2,000 to 3,000 (depending on depth of well); 7" to 4 1/2" cem. through zone.

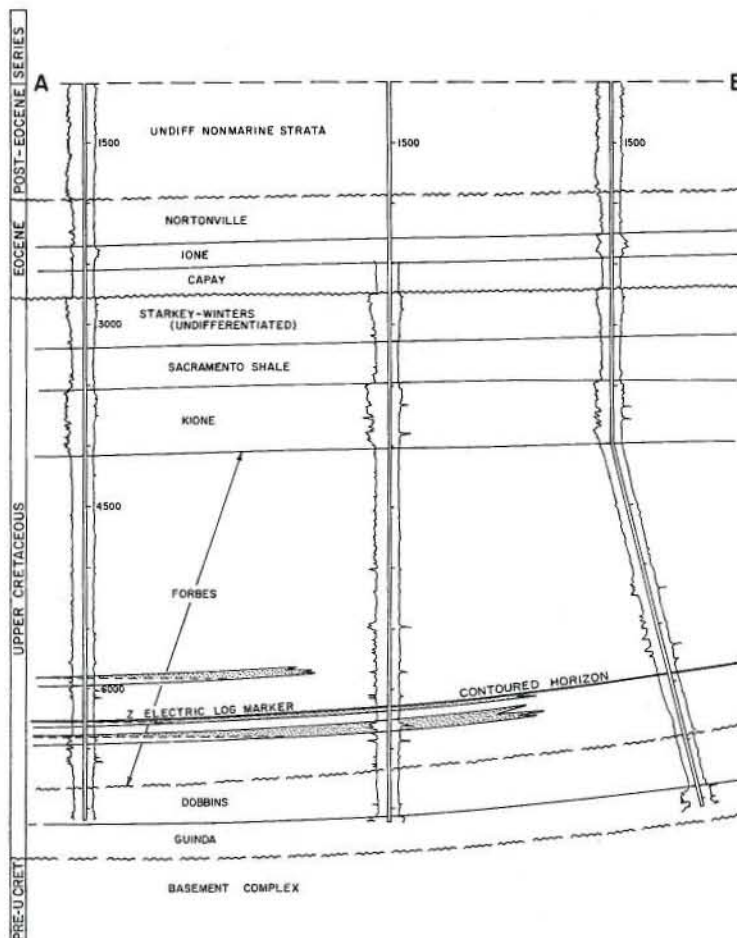
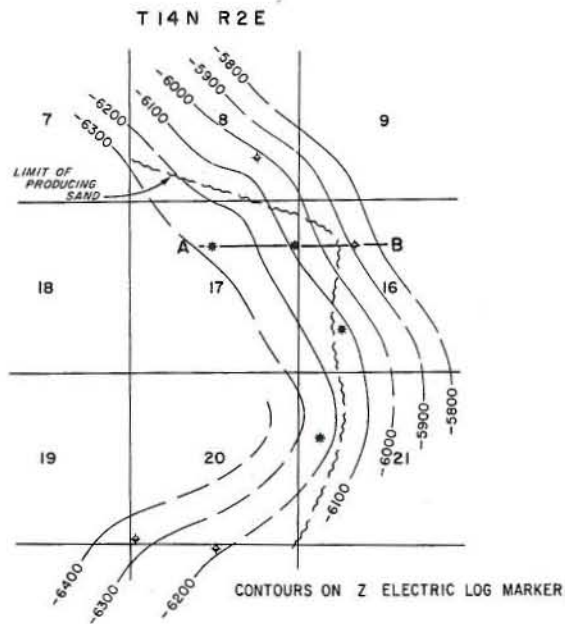
Base of fresh waters protected by cement behind casing.

METHOD OF WASTE DISPOSAL: Waste water hauled by truck to disposal site.

REMARKS: Commercial gas deliveries began in June 1958. Some of the gas-sand stringers in the Winters formation have been given local names by the operators.

REFERENCES: Silcox, J.H., West Thornton and Walnut Grove Gas Fields, Calif., in Geologic Guide to the Gas and Oil Fields of Northern California: Calif. Div. of Mines and Geology Bull. 181, p. 140-148 (1962).

# TISDALE GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

TISDALE GAS FIELD (Field)  
Sutter County (County)

LOCATION: 9 miles southwest of Yuba City

ELEVATION: 45

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed sand stringers)	T. A. Atkinson, Opr. "Atlantic-Giusti" 1	Same	17 14N 2E	MD	*150 8,580	2,540 2,480	N.A. 21/64	Aug. 1961 Aug. 1961

Remarks: \* Well was dually completed in two intervals in the Forbes.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Atlantic Oil Co. "Lamb" 2	Same	Dec. 1963	20 14N 2E	MD	7,542	Guinda	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	5,800-6,300	2-15 per stringer	Late Cretaceous	Forbes	925-1,000	16,400-18,100	3,350	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
819,528	3,179	640	3	12,023,116	1,006,041	1968	8	4	640

SPACING ACT: Applies

BASE OF FRESH WATER: 600

CURRENT CASING PROGRAM: 13 3/8" cem. 300; 9 5/8" cem. 2,500; 5 1/2" or 4 1/2" cem. through zones.

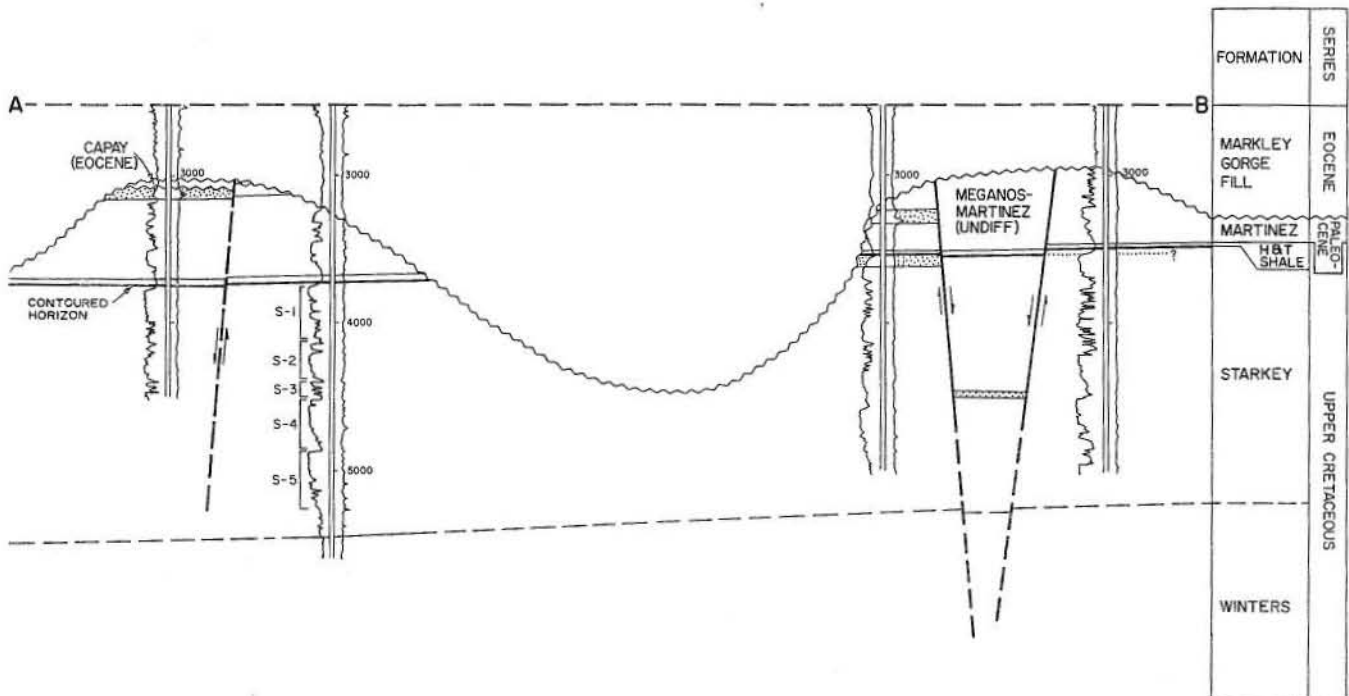
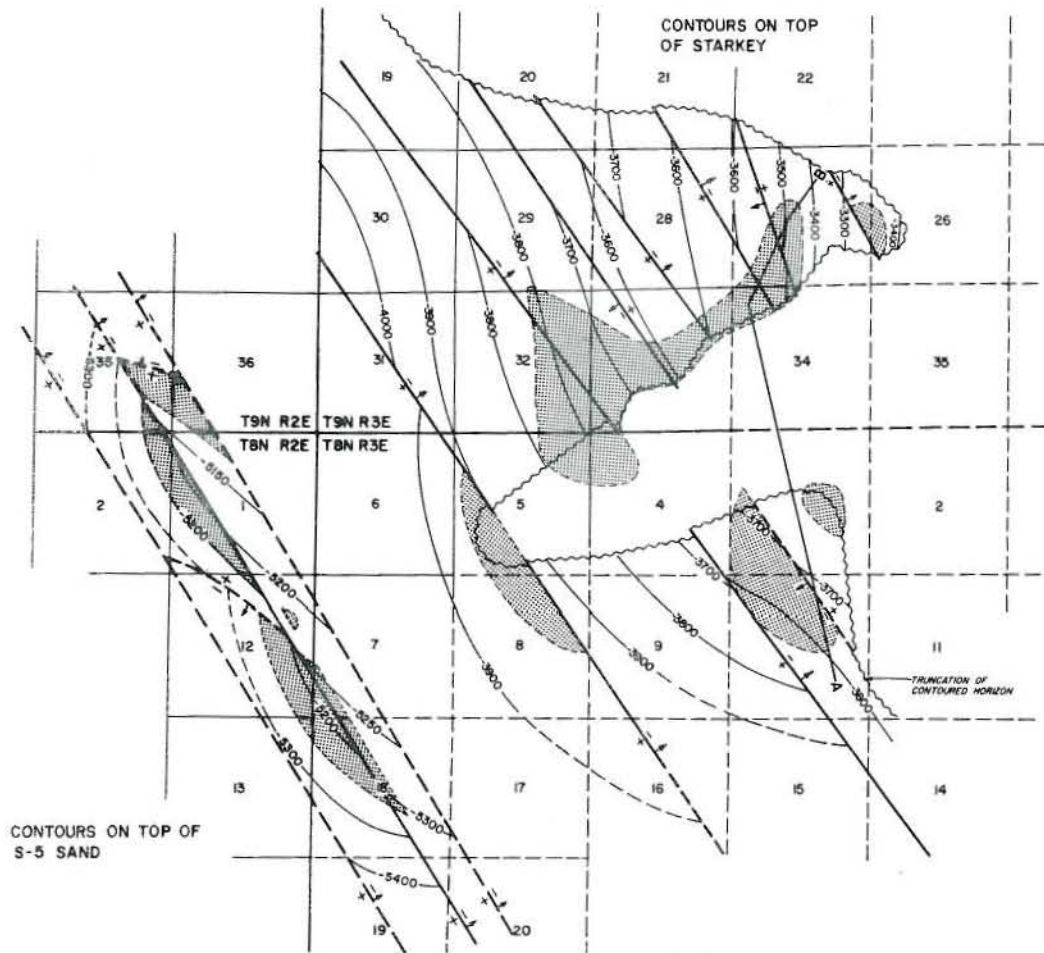
REMARKS: Commercial gas deliveries began in April 1963.

REFERENCES: Weddle, J. R., Tisdale Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 2, Part 2 (1968).

January 1978



# TODHUNTERS LAKE GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

TODHUNTERS LAKE GAS FIELD (Field)  
Yolo County (County)

LOCATION: 4 miles northeast of Davis

ELEVATION: 31

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Atlantic Oil Co. "Purves" 1	Same	10 8N 3E	MD	5,100	1,175	28/64	Aug. 1969
(Unnamed)	Getty Oil Co. "I.O.C." 3	Same	34 9N 3E	MD	4,100	840	30/64	Oct. 1968
S-1	Getty Oil Co. "I.O.C. Unit" 1	Same	27 9N 3E	MD	3,400	500	1/2	Aug. 1968
S-2	Getty Oil Co. "Reavis and Baker" 1	Tidewater Oil Co. "Reavis and Baker" 1	33 9N 3E	MD	5,360	1,110	1/2	May 1967
S-3	Getty Oil Co. "I.O.C." 2	Getty Oil Co. "Investment Operating Corp." 2	33 9N 3E	MD	1,400	425	24/64	May 1968
S-4	Same	Same	33 9N 3E	MD	2,000	620	24/64	May 1968
S-5	Same	Same	33 9N 3E	MD	2,400	750	24/64	May 1968
(Unnamed)	Atlantic Oil Co. "Oil Leases" 1	Same	4 8N 3E	MD	4,420	1,850	5/16	July 1972

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. "I.O.C." 2	Getty Oil Co. "Investment Operating Corp." 2	Apr. 1968	33 9N 3E	MD	7,000	Forbes	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	3,100	30	Eocene-Paleocene	Meganos-Martinez	890	N.A.	1,430	III B 2M
(Unnamed)	3,200	60	Eocene-Paleocene	Meganos-Martinez	890	N.A.	1,420	III B 2M
S-1	3,600	40	Late Cretaceous	Starkey	890	6,160	1,580	III B 2M
S-2	4,000	15	Late Cretaceous	Starkey	900	N.A.	1,750	III B 2M
S-3	4,350	40	Late Cretaceous	Starkey	890	N.A.	1,920	III B 2M
S-4	4,430	55	Late Cretaceous	Starkey	890	N.A.	1,950	III B 2M
S-5	4,720	35	Late Cretaceous	Starkey	840	9,160	2,040	III B 2M
(Unnamed)	5,440	20	Late Cretaceous	Winters	695-905	N.A.	2,180	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
11,485,228	156,983	2,505	38	51,856,848	11,912,060	1975	93	57	2,975

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100-2,500

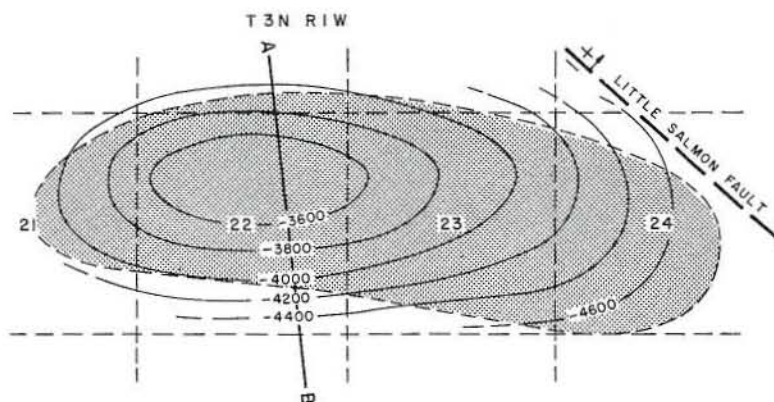
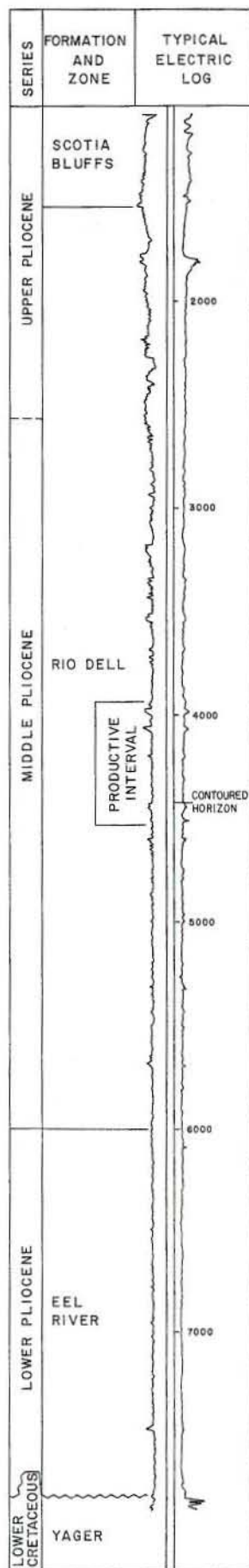
CURRENT CASING PROGRAM: 9 5/8" or 8 5/8" cem. 500-1,000; 5 1/2" or 4 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in May 1968. The 695-Btu heating value in unnamed zone of Winters Formation is due to high nitrogen content.

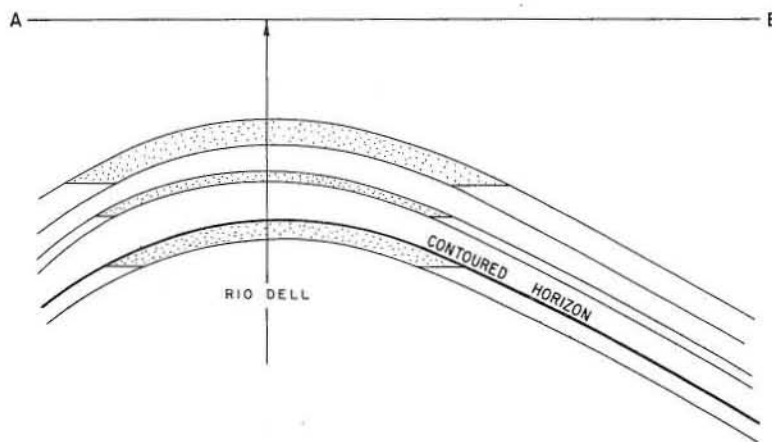
REFERENCES: Williams, P. A., Todhunters Lake Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 56, No. 1 (1970).

January 1978

# TOMPKINS HILL GAS FIELD



CONTOURS ON ELECTRIC LOG MARKER WITHIN PRODUCTIVE INTERVAL



# CALIFORNIA DIVISION OF OIL AND GAS

TOMPKINS HILL GAS FIELD

Humboldt County

LOCATION: 12 miles south of Eureka

TYPE OF TRAP: Anticline; lenticular sands

ELEVATION: 480 - 950

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
(Unnamed sand stringers)	Texaco Inc. "Tompkins Hill Unit Plan" 2	The Texas Co. "Eureka" 2	22 3N 1W	H	1,400	1,100	13/64	Sep 1937

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Texaco Inc. "Holmes-Eureka" 3	The Texas Co. "Holmes-Eureka" 3	Jun 1946	22 3N 1W	H	7,852	Yager	early Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	2,100 - 5,800	1 - 50 per stringer	m Pliocene	Rio Dell	1,035	630 - 1,320	890 - 2,450	1V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
3,668,947	9,574	1,270	26	56,119,658	3,668,947	1972	38	30	1,440

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400 - 1,900

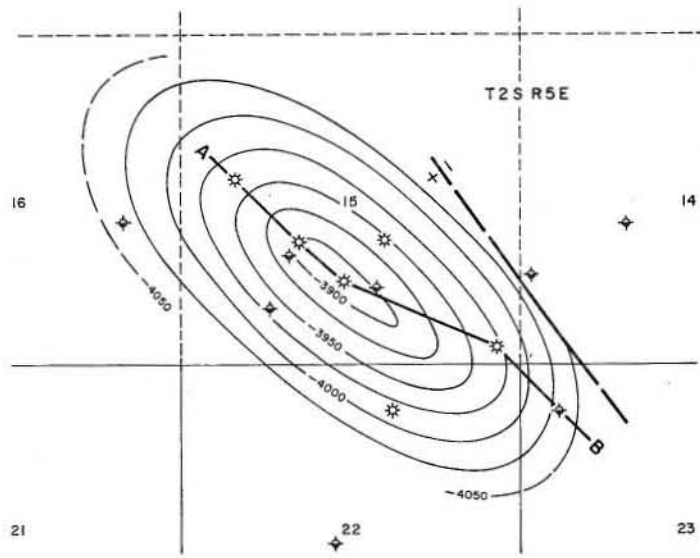
CURRENT CASING PROGRAM: 13 3/8" cem. 300; 8 5/8" cem. 1,500; 4 1/2" cem. through gas zones.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

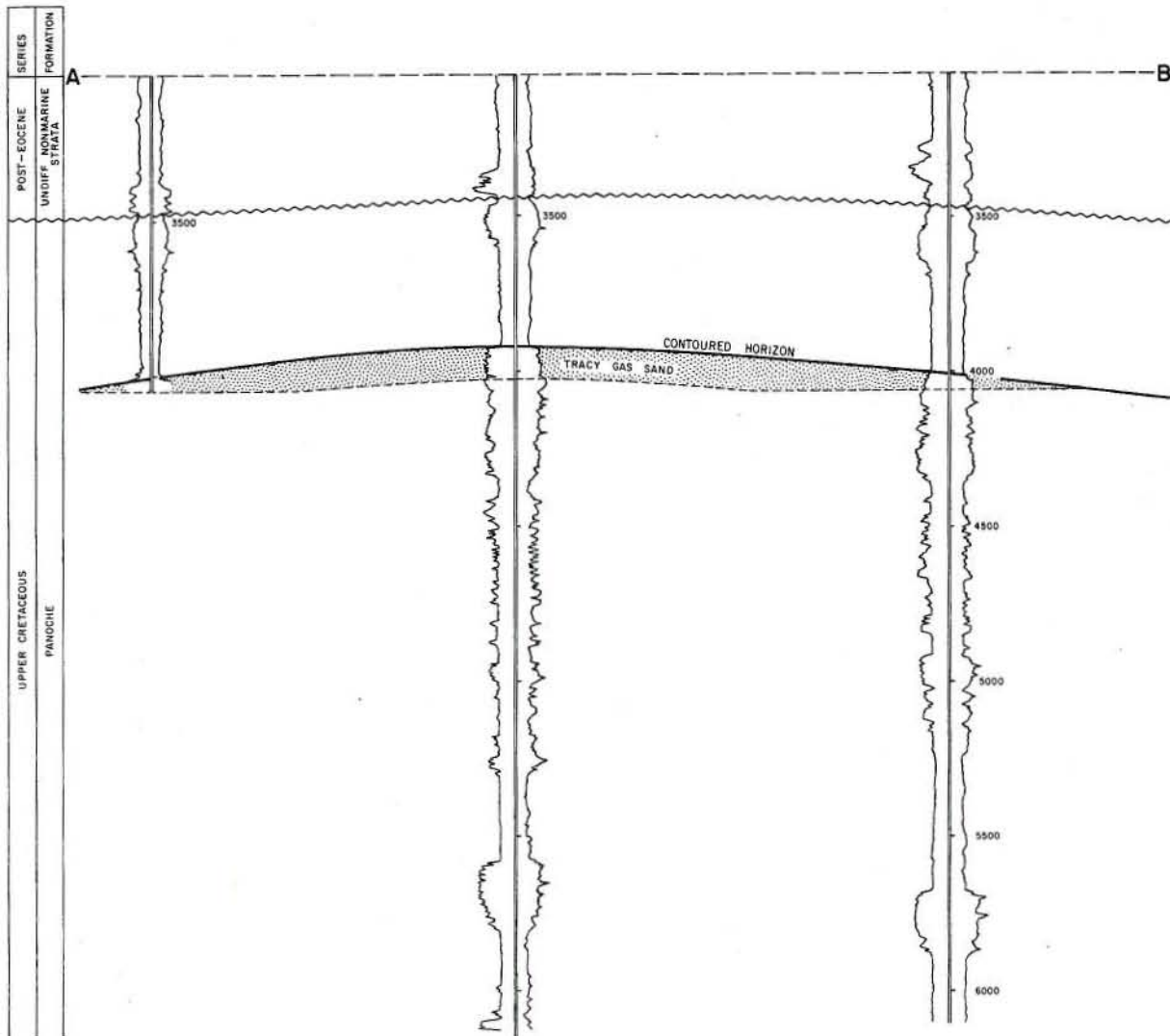
REMARKS: Formerly known as Eureka Gas Field. Commercial gas deliveries began in November 1938.

REFERENCES: Eureka Gas Field in Estimate of the Natural Gas Reserves of the State of Calif. as of Jan. 1, 1941: Railroad Commission of the State of Calif. and Dept. of Natural Resources Div. of Oil and Gas, Case No. 4591, Special Study No. S-258, p. 233-235 (1942).  
Ogle, B.A., Geology of Eel River Valley Area, Humboldt Co., Calif.: Calif. Div. of Mines Bull. 164, p. 79 (1953).

# TRACY GAS FIELD (Abandoned)



CONTOURS ON TOP OF TRACY SAND



# CALIFORNIA DIVISION OF OIL AND GAS

TRACY GAS FIELD (Field)  
San Joaquin County (County)

LOCATION: 1/2 mile north of Tracy

ELEVATION: 35

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Tracy	Amerada Hess Corp. "F.D.L." 2	Amerada Petroleum Corp. "F.D.L." 2	15 2S 5E	MD	35,000	1,400	1 1/2	Aug. 1935

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Amerada Hess Corp. "Tracy Community 1" 1	Amerada Petroleum Corp. "Tracy Community 1" 1	Feb. 1964	15 2S 5E	MD	13,832	F zone (Goudkoff)	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Tracy	3,900	40	Late Cretaceous	Panoche	930	6,850-8,560	1,854	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	13,775,969	3,012,083	1936	19	7	350

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200

CURRENT CASING PROGRAM: 9 5/8" or 8 5/8" cem. 500; 5 1/2" or 4 1/2" cem. through zone and across base of freshwater sands.

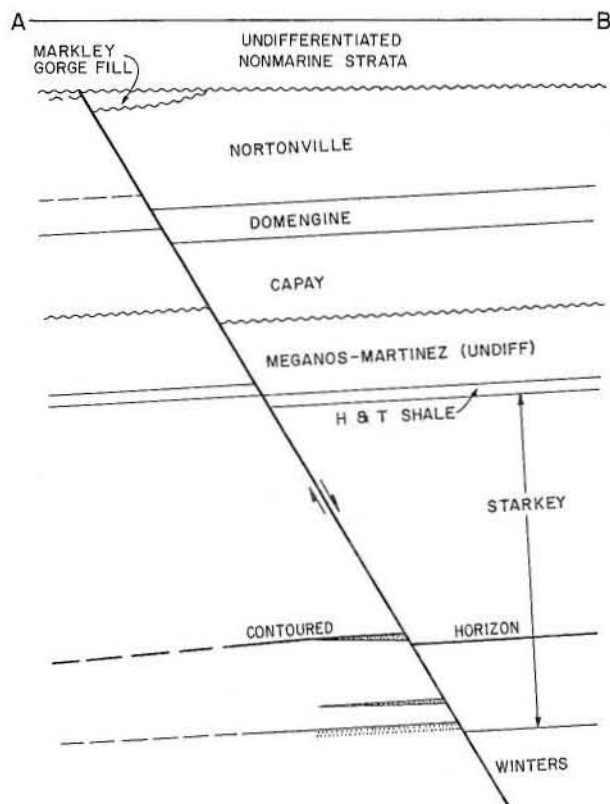
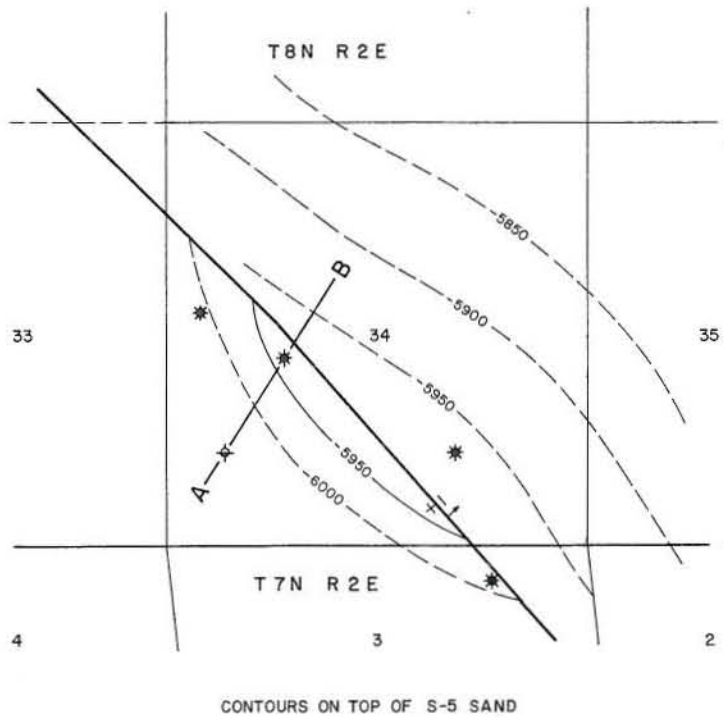
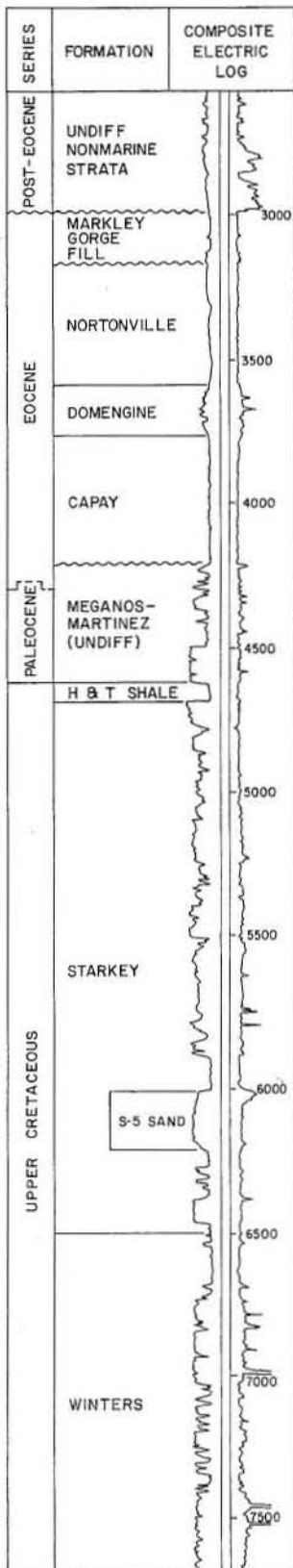
REMARKS: First commercial gas field in Northern California, and first field in California to produce gas commercially from a Cretaceous zone. Commercial gas deliveries began in September 1935. The field was abandoned in November 1964 and reactivated in November 1977.

REFERENCES: Beckwith, H. T., Tracy Gas Field: Calif. Div. of Mines Bull. 118, p. 586-587 (1943).  
Hunter, G. W., Tracy Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).

January 1978



# TREMONT GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

TREMONT GAS FIELD (Field)  
Solano County (County)

LOCATION: 3 miles south of Davis

ELEVATION: 40

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Capitol Oil Corp. "Hamel-Thomas" 1	Same	34 8N 2E	MD	3,267	2,130	1/4	Mar. 1974
(Unnamed)	Capitol Oil Corp. "Hamel-Thomas" 1	Same	34 8N 2E	MD	3,161	2,070	1/4	Mar. 1974

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Capitol Oil Corp. "Hamel-Thomas" 2	Same	Apr. 1974	34 8N 2E	MD	8,051	Winters	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	6,050	20	Late Cretaceous	Starkey	873	N.A.	2,550	III B 3M
(Unnamed)	6,560	7	Late Cretaceous	Winters	852	N.A.	2,810	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,437,548	60,649	230	4	1,437,548	1,437,548	1976	5	4	230

SPACING ACT: Applies

BASE OF FRESH WATER: 3,000

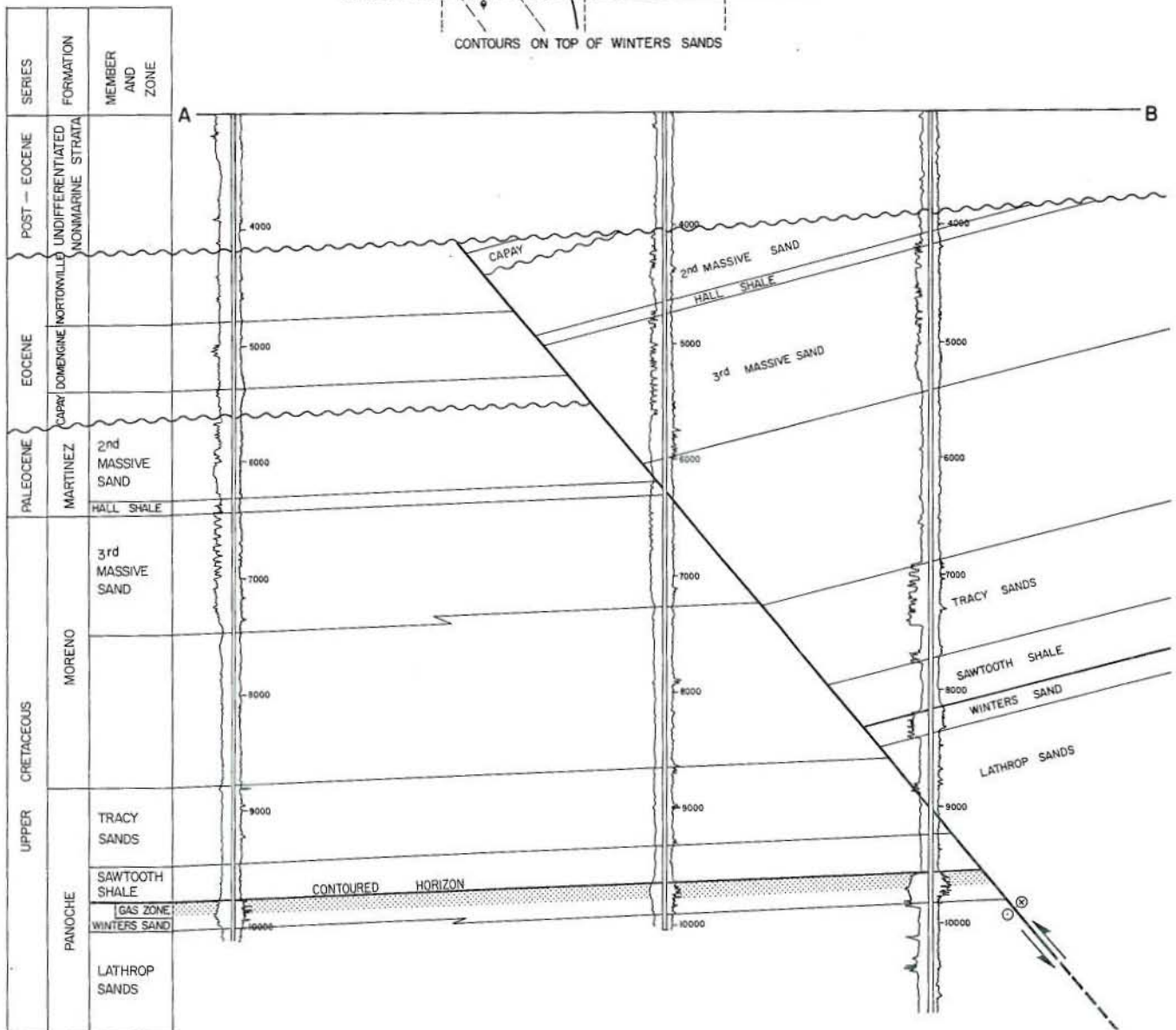
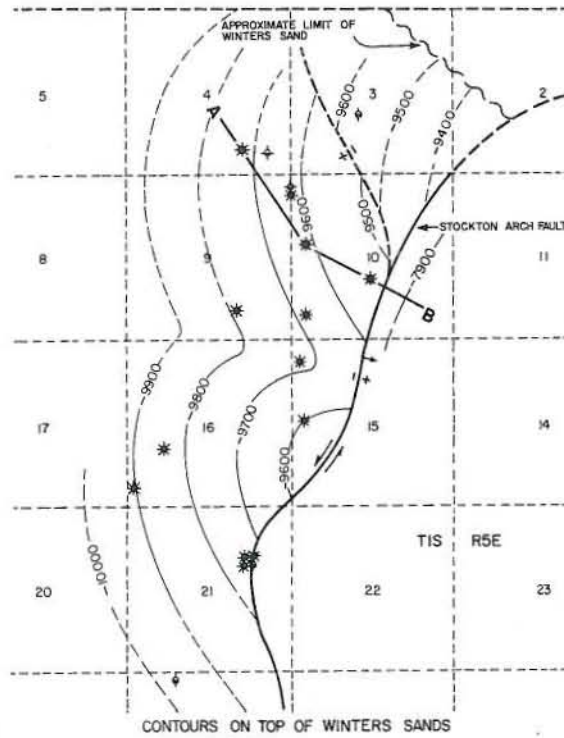
CURRENT CASING PROGRAM: 8 5/8" cem. 700; 4 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in January 1976.

REFERENCES: None

January 1978

# UNION ISLAND GAS FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

UNION ISLAND GAS FIELD (Field)  
San Joaquin County (County)

LOCATION: 10 miles southwest of Stockton

ELEVATION: Sea level

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Union Oil Co. of Calif. "Sonol Securities" 1-A	Same	10 1S 5E	MD	4,450	3,300	1/4	Feb. 1972

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "Sonol Securities" 7	Same	Nov. 1973	10 1S 5E	MD	12,527	E Zone (Goudkoff)	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	9,700	150	Late Cretaceous	Winters	870	39,900	5,040	III B SM

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
19,665,780	44,939	1,590	14	19,795,180	19,665,780	1976	22	14	1,590

SPACING ACT: Applies

BASE OF FRESH WATER: 300

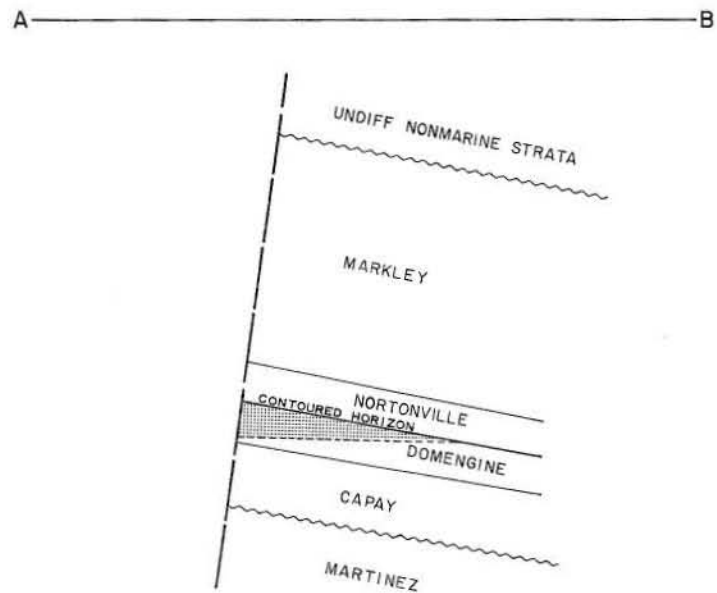
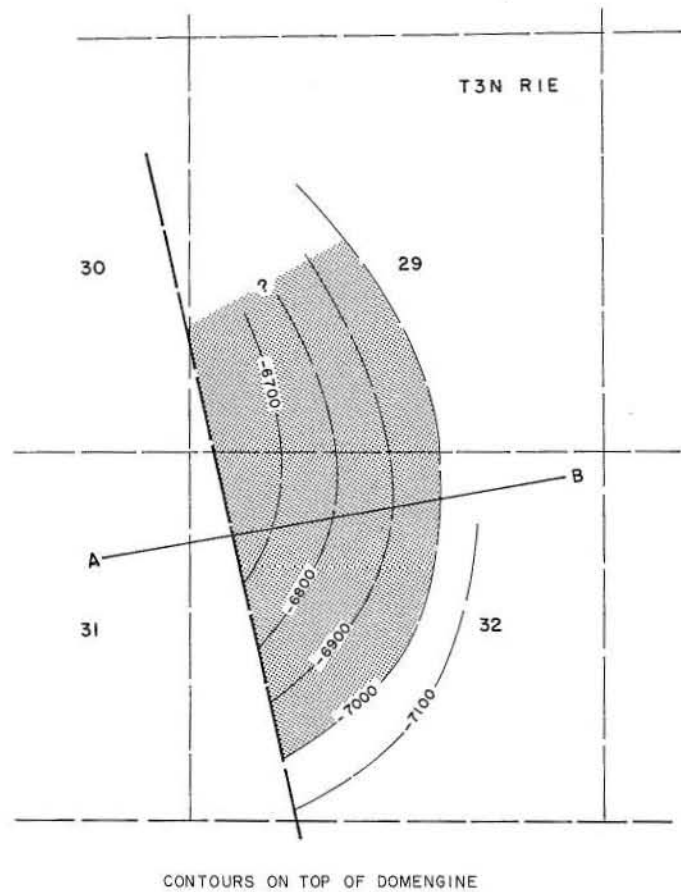
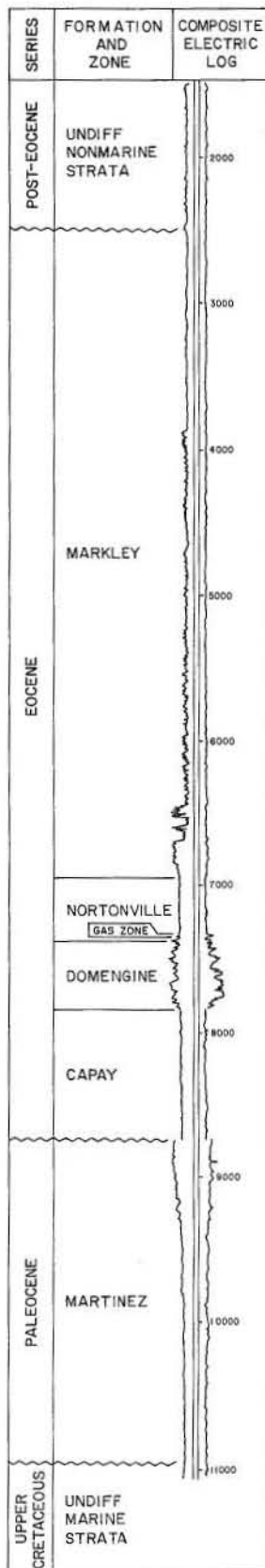
CURRENT CASING PROGRAM: 13 3/8" cem. 600; 9 5/8" cem. 5,800; 5 1/2" cem. through zone.

REMARKS: Commercial gas deliveries began in January 1976.

REFERENCES: None

January 1978

# VAN SICKLE ISLAND GAS FIELD



COURTESY OF STANDARD OIL COMPANY OF CALIFORNIA



# CALIFORNIA DIVISION OF OIL AND GAS

VAN SICKLE ISLAND GAS FIELD

Solano County

LOCATION: 3 miles north of Pittsburg

TYPE OF TRAP: Faulted nose

ELEVATION: 15

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Nortonville Domengine	Standard Oil Co. of Calif. "Feykert" 1 Same as above	Standard Oil Co. of Calif. "Feykert" 1 Same as above	32 3N 1E	MD	1,665	1,110	1/4	Jun 1968

Remarks: Production comingled from both zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Jul 1967	32 3N 1E	MD	11,040	Starkey	Lt. Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville Domengine	6,760	10	Eocene	Nortonville	N.A.	N.A.	N.A.	IV
	6,800	150	Eocene	Domengine	1,035	600	5,000	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,731,445	11,363	180	4	4,348,927	1,731,445	1972	5	4	180

SPACING ACT: Applies

BASE OF FRESH WATER: Above 250

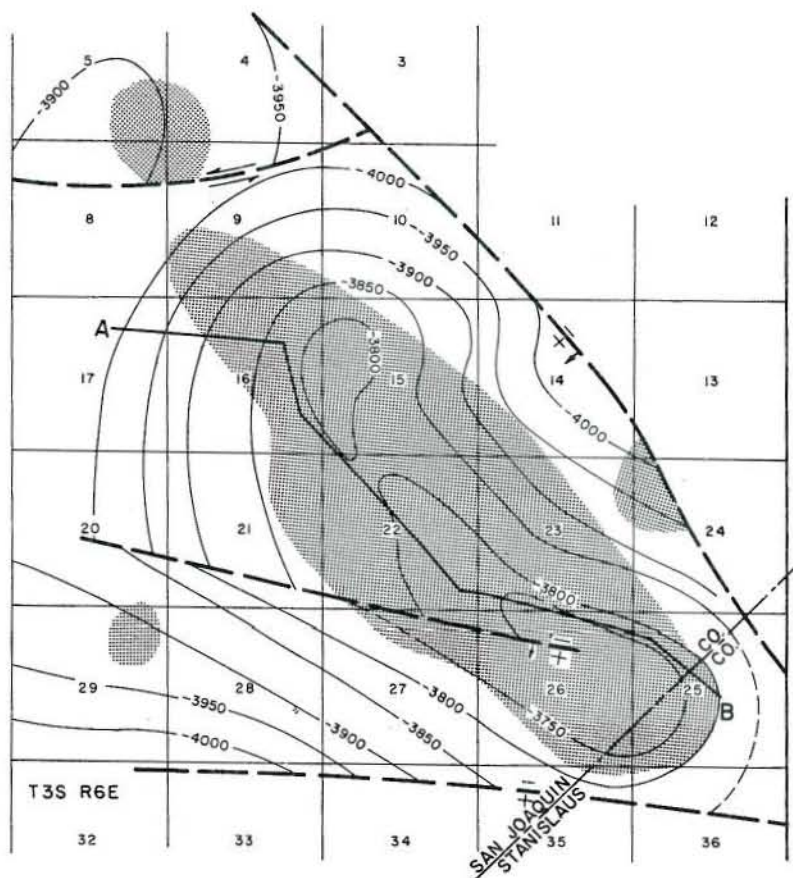
CURRENT CASING PROGRAM: 10 3/4" or 9 5/8" cem. 1,500 and 7" or 4 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Sumps at separator sites.

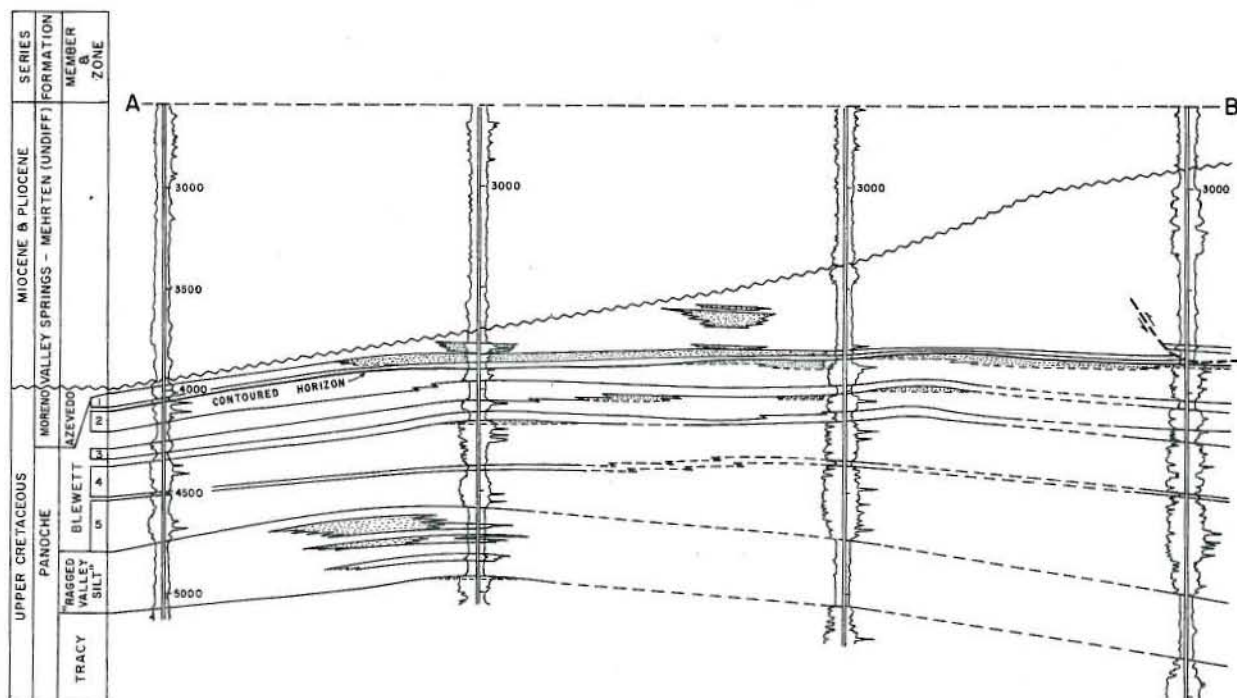
REMARKS: Commercial gas deliveries began in April 1969. 1972 condensate production 7,926 bbl; cumulative condensate production 22,830 bbl.

REFERENCES:

# VERNALIS GAS FIELD



CONTOURS ON TOP OF BLEWETT 2 SAND



## CALIFORNIA DIVISION OF OIL AND GAS

VERNALIS GAS FIELD

San Joaquin and Stanislaus Counties

LOCATION: 9 miles southeast of Tracy

TYPE OF TRAP: Faulted anticline; lenticular sands

ELEVATION: 75

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Banta	Great Basins Pet. Co. "Vernalis Unit 1" 26-14	Porter Sesnon, et al "Sesnon-Vernalis Unit 1" 26-14	14 3S 6E	MD	4,900	850	1/2	Sep 1959
Azevedo	Great Basins Pet. Co. "T.L.W." 13-23	Porter Sesnon, et al "Sesnon-T.L.W." 13-23	23 3S 6E	MD	*795	1,440	3/16	Jan 1959
Blewett	Standard Oil Co. of Calif. "Blewett Comm." 1	Same as present	25 3S 6E	MD	370	1,020	1/8	Jan 1941
"Ragged Valley Silt"	Great Basins Pet. Co. "Mohawk-Boltzen-Hunter Unit 4" 63-16	Porter Sesnon, et al "Mohawk-Boltzen-Hunter Unit 4" 63-16	16 3S 6E	MD	9,700	1,140	5/8	Jan 1941
Tracy	Great Basins Pet. Co. "Mohawk-Boltzen-Hunter" 76-16	Porter Sesnon, et al "Mohawk-Boltzen-Hunter" 76-16	16 3S 6E	MD	1,110	1,000	1/4	May 1960
					5,500	950	1/2	Jul 1959

Remarks: \* Former Blewett zone well, recompleted in January 1959 as a dual producer from two intervals in the Azevedo zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
W.E. Strangman "Navarra" 1	Inter-American Resources Dev. Co. "Navarra" 1	Dec 1965	29 3S 6E	MD	11,602	F Zone (Goudkoff)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Banta	3,000	25	Miocene	Valley Springs	930	125	1,425	IV
Azevedo	3,600	40	Lt Cretaceous	Moreno	920	30 - 200	1,680	IV
Blewett	3,800	80	Lt Cretaceous	Panoche	920	30 - 200	1,765	IV
"Ragged Valley Silt"	4,650	40	Lt Cretaceous	Panoche	920	30 - 200	2,110	IV
Tracy	4,925	10	Lt Cretaceous	Panoche	915	30 - 200	2,220	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
2,175,348	4,571	3,600	27	80,276,282	8,273,021	1962	67	38	4,030

SPACING ACT: Applies

BASE OF FRESH WATER: 800 - 1,050

CURRENT CASING PROGRAM: 9 5/8" or 8 5/8" cem. 1,000; 5 1/2" or 4 1/2" cem. through zones.

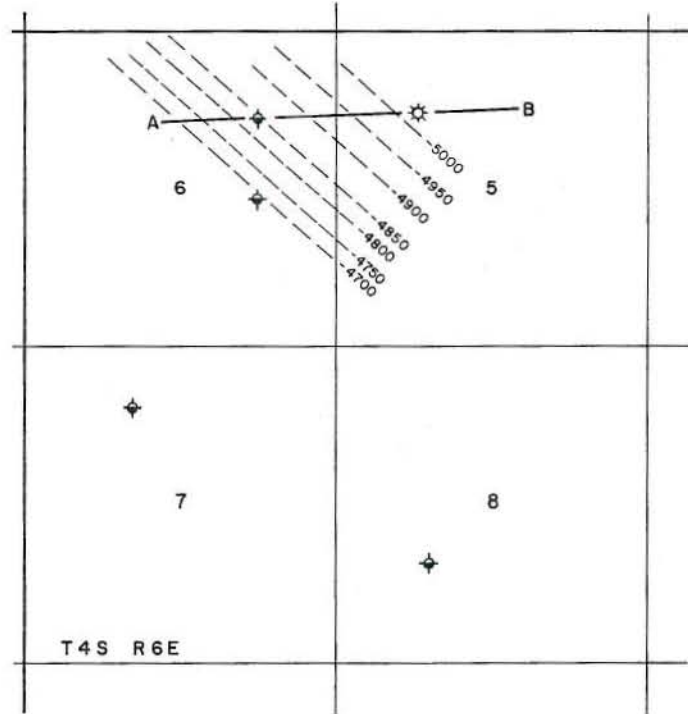
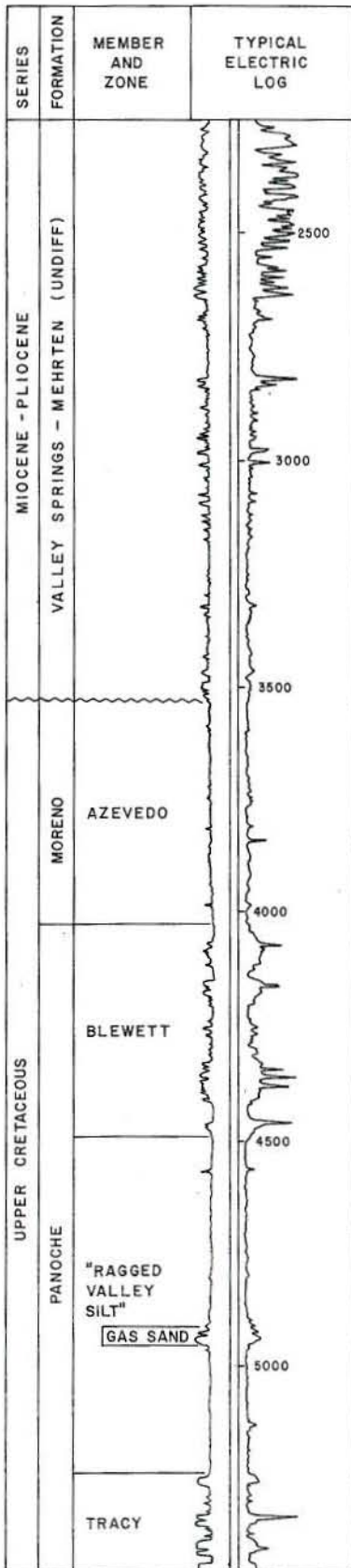
METHOD OF WASTE DISPOSAL: Disposal into sumps at well sites.

REMARKS: Commercial gas deliveries began in May 1942.

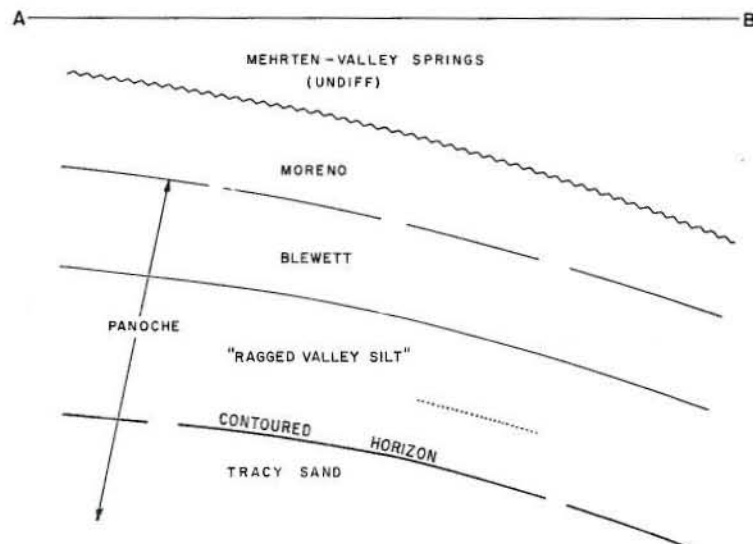
REFERENCES: Hill, F.L., Vernalis Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).

# SOUTHWEST VERNALIS GAS FIELD

(Abandoned)



CONTOURS ON TOP OF TRACY SAND



## CALIFORNIA DIVISION OF OIL AND GAS

VERNALIS, SOUTHWEST, GAS FIELD (Abandoned)

San Joaquin County

LOCATION: 10 miles southeast of Tracy

TYPE OF TRAP: Lenticular sand on a homocline

ELEVATION: 225

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
"Ragged Valley"	Porter Sesnon, et al "Sesnon-Vernalis" 22-5	Same as present	5 4S 6E	MD	530	340	1/4	Aug 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Raspo" 1	Same	Aug 1961	6 4S 6E	MD	6,628	lower Tracy sand	Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
"Ragged Valley"	4,560	4	Lt Cretaceous	Panoche	870	N.A.	2,090	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	12,063	11,283	1960	3	1	20

SPACING ACT: Applies

BASE OF FRESH WATER: 2,600

CURRENT CASING PROGRAM: 9 5/8" cem. 600; 5 1/2" or 4 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

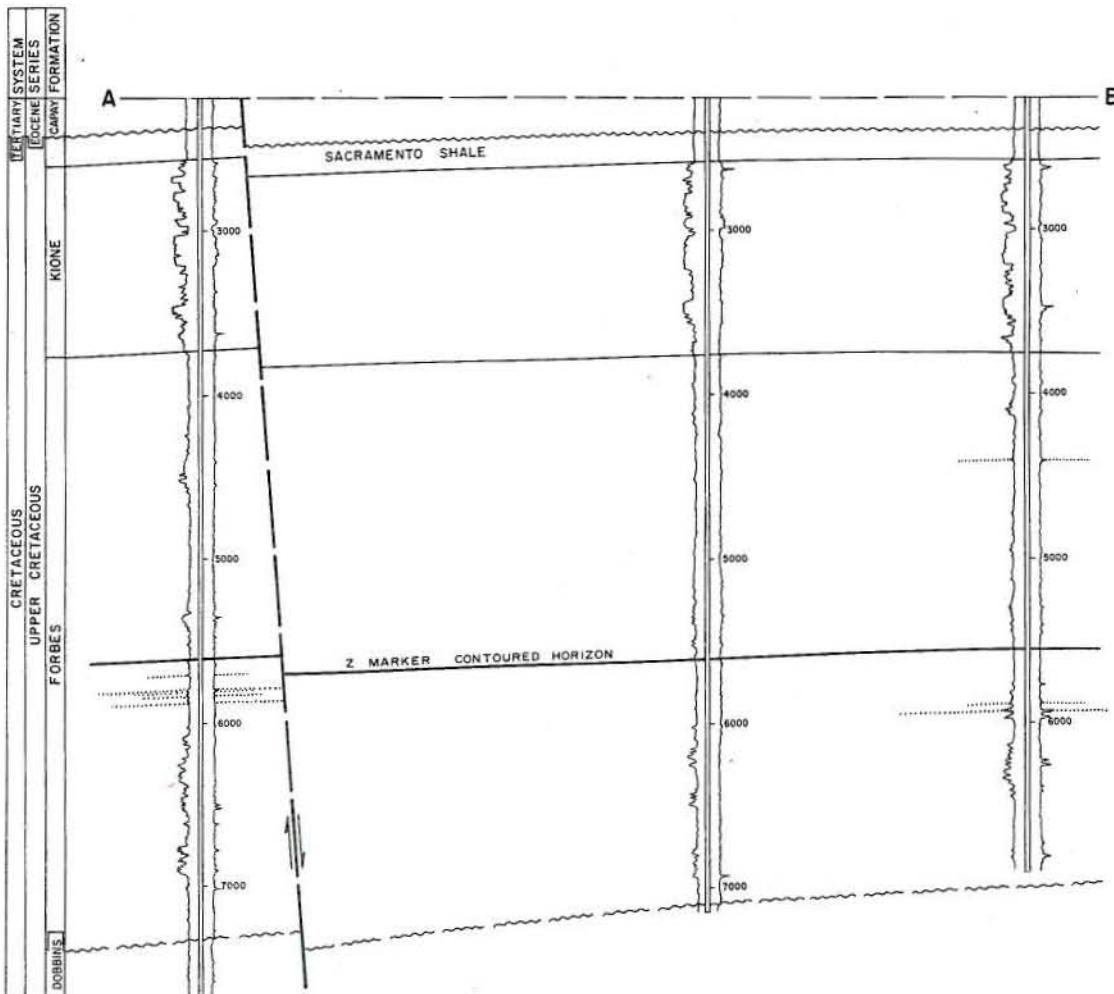
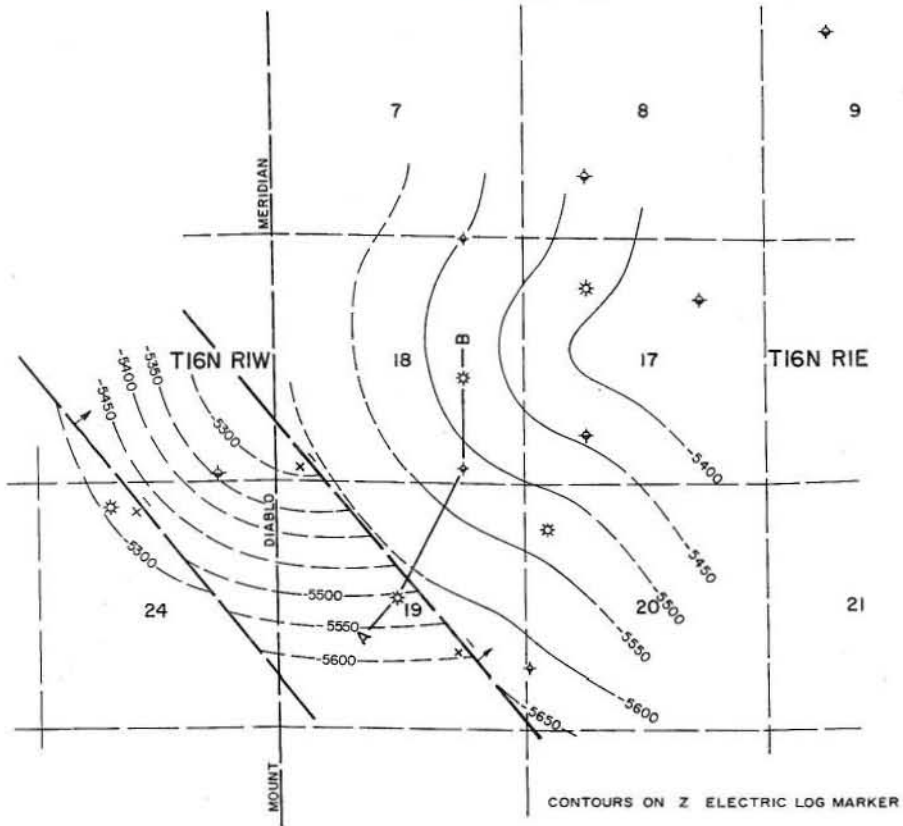
REMARKS: Commercial gas deliveries began in April 1960. The well was abandoned in March 1961.

REFERENCES:



# WEST BUTTE GAS FIELD

( Abandoned )



# CALIFORNIA DIVISION OF OIL AND GAS

WEST BUTTE GAS FIELD (Abandoned)

Sutter County

LOCATION: 6 miles northeast of Colusa

TYPE OF TRAP: Faulted nose with lenticular sands

ELEVATION: 60 - 285

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed sand stringers)	Occidental Pet. Corp. "Standard-Browning" 1	Occidental Pet. Corp. "Standard" 1	19 16N 1E	MD	2,271	1,275	15/64	Apr 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Pet. Corp. "Standard-Browning" 2	Same	Apr 1961	20 16N 1E	MD	8,097	G zone (Goudkoff)	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	4,260 - 6,500	8 - 50 per stringer	Lt Cretaceous	Forbes	975 - 1,005	N.A.	1,930 - 4,380	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	659,960	351,120	1963	14	5	960

SPACING ACT: Applies

BASE OF FRESH WATER: 2,200

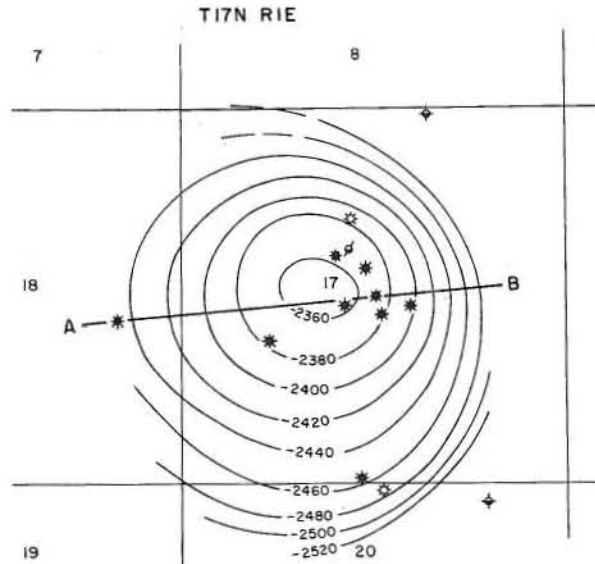
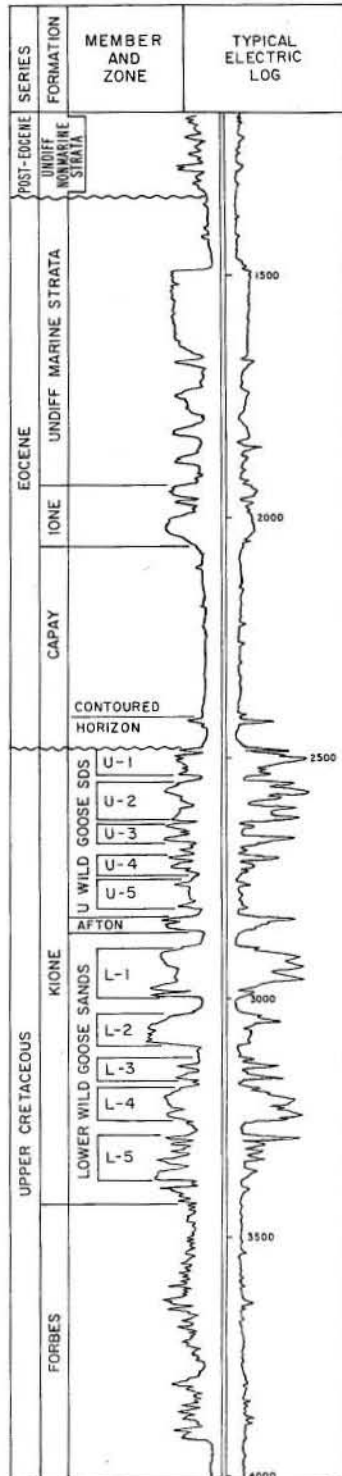
CURRENT CASING PROGRAM: 9 5/8" cem. 2,000; 5 1/2" cem. through zones and across base of fresh water sands.

METHOD OF WASTE DISPOSAL:

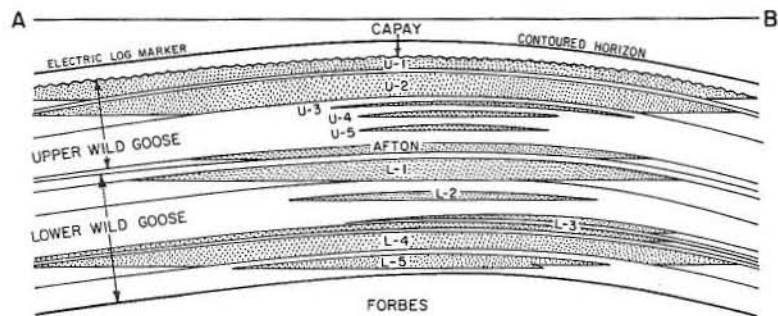
REMARKS: Commercial gas deliveries began in August 1962. The field was abandoned in May 1970.

REFERENCES: Hluza, A.G., West Butte Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).

# WILD GOOSE GAS FIELD



CONTOURS ON ELECTRIC LOG MARKER IN CAPAY



# CALIFORNIA DIVISION OF OIL AND GAS

WILD GOOSE GAS FIELD  
Butte and Colusa Counties

LOCATION: 10 miles northwest of Colusa

TYPE OF TRAP: Dome

ELEVATION: 65

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Hangtown (Sub Capay) Upper Wild Goose	Exxon Corp. "Wild Goose Gas Unit 1" 6	Humble Oil & Rfg. Co. "Wild Goose" 6	17 17N 1E	MD	4,000	940	24/64	Sep 1963
	Exxon Corp. "Wild Goose Gas Unit 1" 4	Honolulu Oil Corp. "Honolulu-Humble Wild Goose" 4	17 17N 1E	MD	7,340	880	36/64	Jul 1953
Afton Lower Wild Goose	Exxon Corp. "Wild Goose Gas Unit 1" 6	Humble Oil & Rfg. Co. "Wild Goose" 6	17 17N 1E	MD	*4,840	1,040	24/64	Sep 1963
	Exxon Corp. "Wild Goose Gas Unit 1" 1	Honolulu Oil Corp. "Honolulu-Humble Wild Goose" 1	17 17N 1E	MD	4,020	1,370	24/64	Aug 1951

Remarks: \* Commingled production from Afton and Upper Wild Goose. Honolulu Oil Corp. tested this zone in open hole at a maximum rate of 2,980 Mcf per day in "Honolulu-Humble Tule Goose" 1 (now Exxon Corp. "Wild Goose Gas Unit 1" 7) during July 1952.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "Wild Goose Gas Unit 1" 11	Humble Oil & Rfg. Co. "Wild Goose Country Club" 7	Aug 1967	18 17N 1E	MD	7,004	Dobbins	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Hangtown (Sub Capay) Upper Wild Goose	2,400	10	Lt Cretaceous	Kione	N.A.	N.A.	1,105	IV
	2,500	200	Lt Cretaceous	Kione	800	1,780 - 3,250	1,200 - 1,310	IV
Afton Lower Wild Goose	2,850	30	Lt Cretaceous	Kione	N.A.	N.A.	1,335	IV
	2,900	250	Lt Cretaceous	Kione	805	1,800 - 2,650	1,345 - 1,500	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,382,761	0	340	9	99,229,200	8,248,811	1961	16	11	360

SPACING ACT: Applies

BASE OF FRESH WATER: 1,050

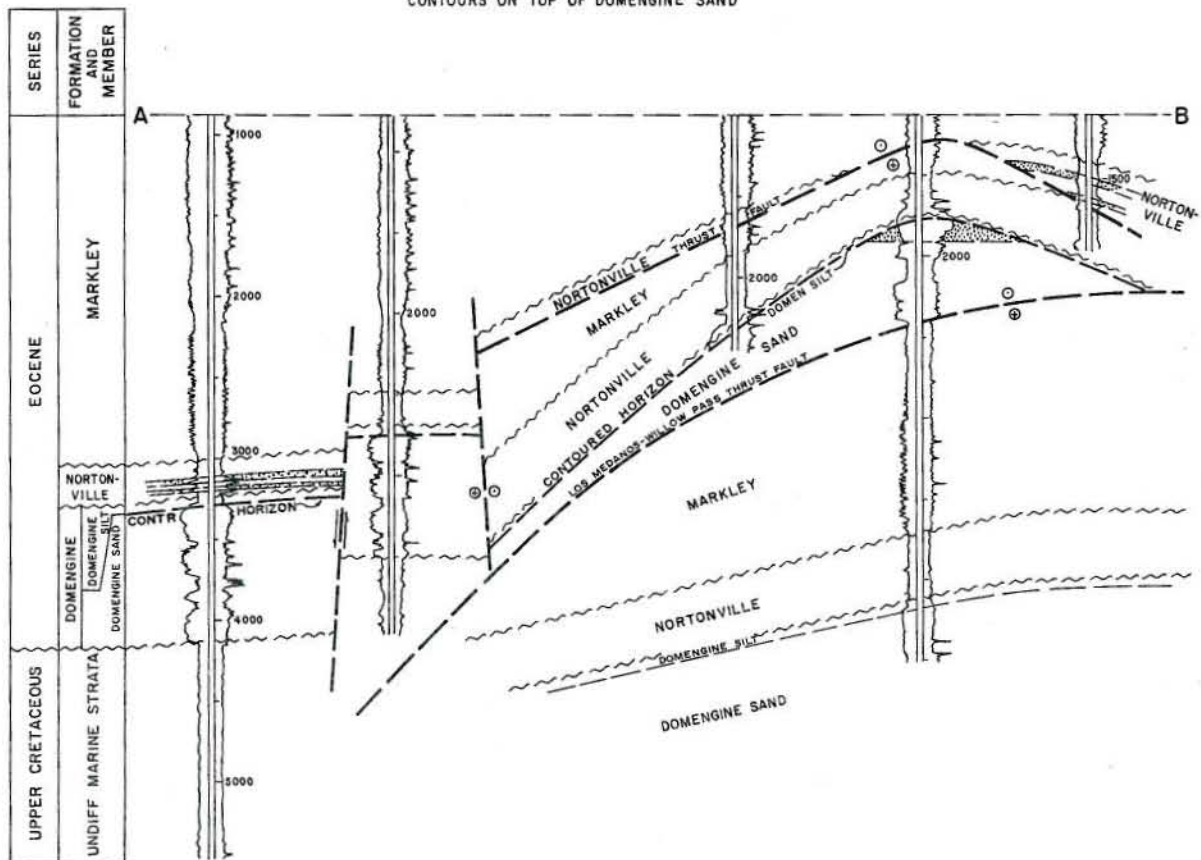
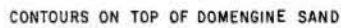
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zones and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Water is injected into Exxon Corp. disposal well.

REMARKS: Commercial gas deliveries began in November 1951.

REFERENCES: Hunter, G.W., Wild Goose Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 1 (1955).

# WILLOW PASS GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

WILLOW PASS GAS FIELD (Field)  
Contra Costa County (County)

LOCATION: 8 miles east of Martinez

ELEVATION: 425-775

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Nortonville	The Termo Co. "Faria Unit" 2	Trico Oil and Gas Co. "Faria Unit" 2	21 2N 1W	MD	1,500	310	3/8	July 1959
Domengine	The Termo Co. "Faria Unit" 1	Trico Oil and Gas Co. "Faria Unit" 1	21 2N 1W	MD	4,300	290	3/4	May 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
The Termo Co. "Neustaedter" 1 -	Trico Oil and Gas Co. "Neustaedter" 1	Aug. 1959	16 2N 1W	MD	5,483	Undiff. marine	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville	1,500-3,100	35	Eocene	Nortonville	1,000	N.A.	530-1,335	III B 2M
Domengine	1,800	50	Eocene	Domengine	1,020	N.A.	650	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
14,739	0	85	2	2,880,052	263,347	1967	12	6	85

SPACING ACT: Applies

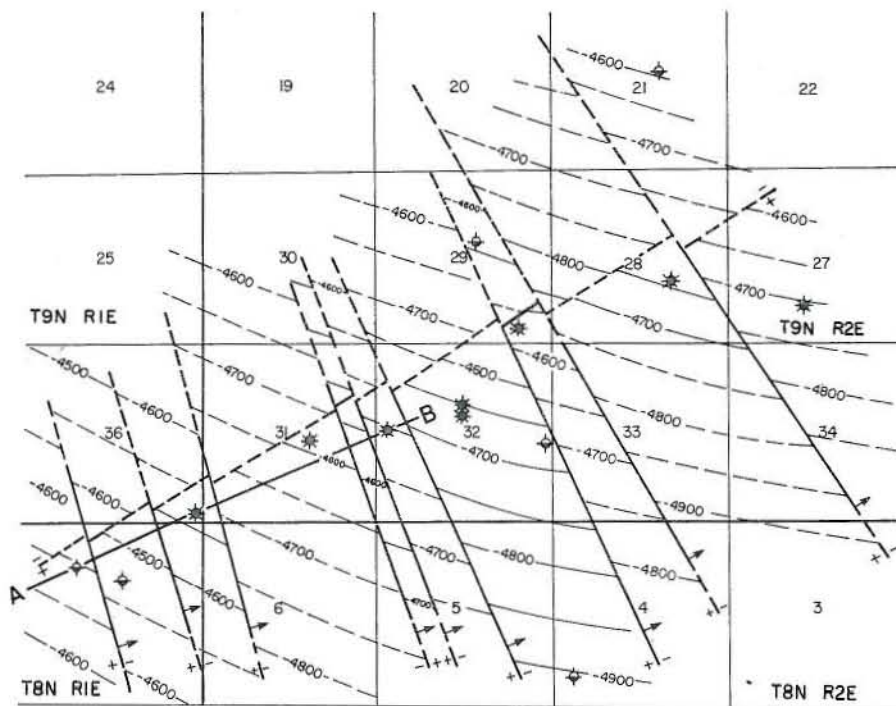
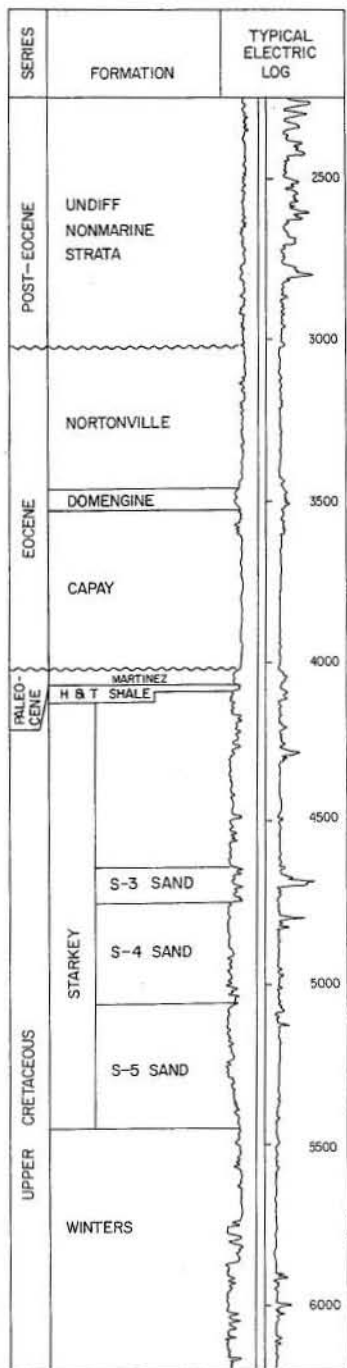
BASE OF FRESH WATER: 150

CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zones.

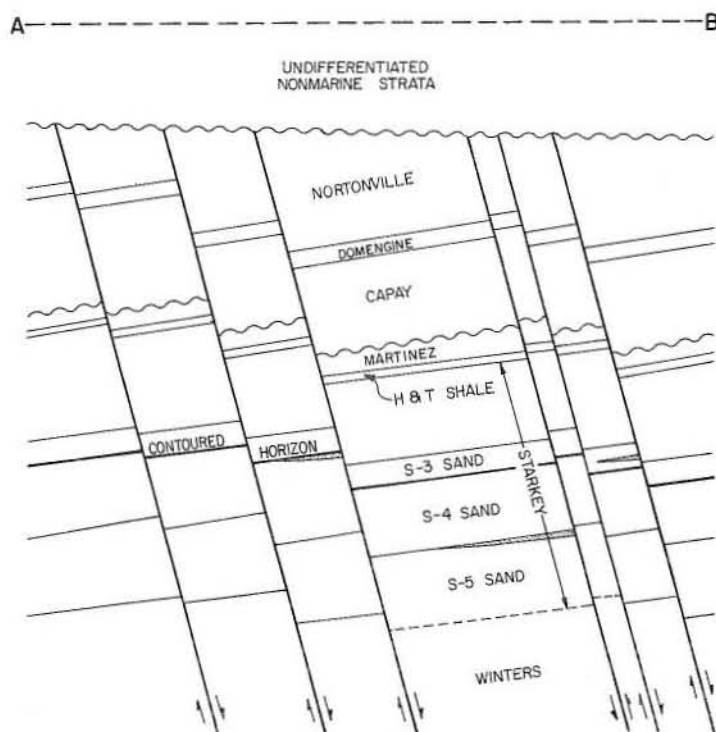
REMARKS: Commercial gas deliveries began in April 1960.

REFERENCES: Matthews, J. F., Jr., Willow Pass Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 1 (1963).

January 1978



CONTOURS ON TOP OF S-4 SAND



# CALIFORNIA DIVISION OF OIL AND GAS

WILLOW SLOUGH GAS FIELD  
Yolo County  
(Field)  
(County)

LOCATION: 3 miles north of Davis

ELEVATION: 50

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
S-3	Shell Oil Co. "Schuder" 1-32	Same	32 9N 2E	MD	1,020	1,750	N.A.	Oct. 1974
S-4	Shell Oil Co. "Stephens" 1-28	Same	28 9N 2E	MD	1,580	N.A.	N.A.	June 1976
S-5	Shell Oil Co. "Staib" 1-31	Same	31 9N 2E	MD	1,260	N.A.	N.A.	Sept. 1976
Winters	Shell Oil Co. "Schuder" 2-32	Same	32 9N 2E	MD	375	1,000	N.A.	June 1975

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Stephens" 1-28	Same	Oct. 1974	28 9N 2E	MD	7,504 (7,138) TVD	Winters	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
S-3	4,670	30	Late Cretaceous	Starkey	890-902	N.A.	2,050	III B 3M
S-4	4,770	15	Late Cretaceous	Starkey	N.A.	N.A.	2,120	III B 3M
S-5	5,150	15	Late Cretaceous	Starkey	N.A.	N.A.	2,200	III B 3M
Winters	5,990	10	Late Cretaceous	Winters	900	5,040	2,530	III B 3M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	1,600	0	0	See Remarks	--	9	8	1,600

SPACING ACT: Applies

BASE OF FRESH WATER: 2,800

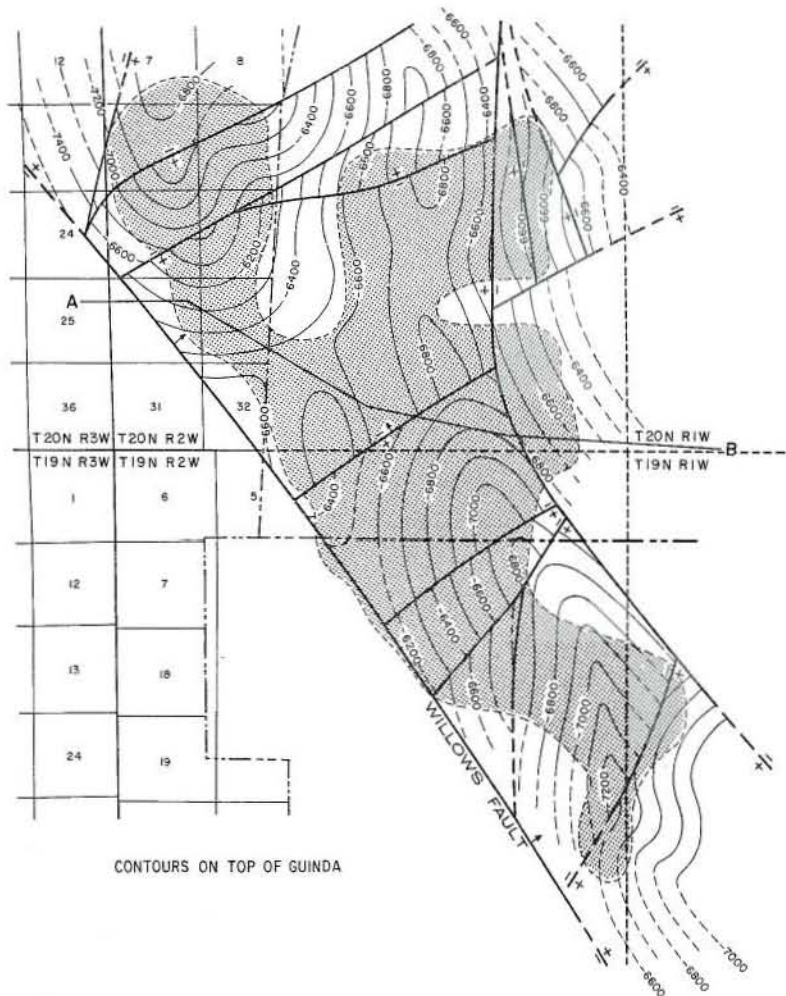
CURRENT CASING PROGRAM: 8 5/8" cem. 800; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries began in February 1977.

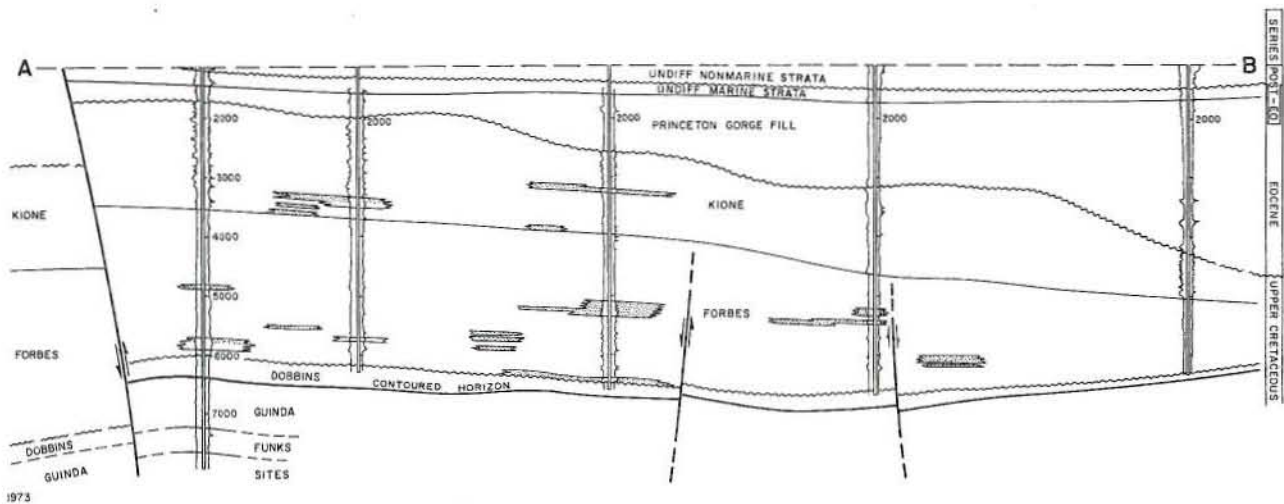
REFERENCES: None

January 1978

# WILLOWS-BEEHIVE BEND GAS FIELD



CONTOURS ON TOP OF GUINDA





## CALIFORNIA DIVISION OF OIL AND GAS

WILLOWS - BEEHIVE BEND GAS FIELD (Field)  
Glenn County (County)

LOCATION: 7 miles east of Willows

ELEVATION: 105

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
(Unnamed)	Sun Oil Co. "Huffmaster" 1	Sunray Mid-Continent Oil Co. "Huffmaster" 1	24 19N 2W	MD	3,035	855	19/64	Sep. 1956*
(Unnamed sand stringers)	Teal Petroleum Co. "Transamerica" 71-18	The Ohio Oil Co. "E.E. Willard" 1-A	18 20N 2W	MD	5,355	515	21/32	Aug. 1938
(Unnamed sand stringers)	Rheem Calif. Land Co. "Zumwalt" 1-63	Richard S. Rheem, Opr. "Zumwalt" 1-63	2 19N 2W	MD	5,000	2,050	5/16	Sep. 1954
(Unnamed)	Mobil Oil Corp. "Miner-Jones" 5	General Pet. Corp. "Miner-Jones" 5	34 20N 2W	MD	7,000	1,210	1/2	Mar. 1958
(Unnamed)	Mobil Oil Corp. "Wolcott Capital" 1	General Pet. Corp. "Wolcott Capital Unit" 1	13 19N 2W	MD	280	1,080	1/8	Mar. 1955

Remarks: \* Date of recompletion; originally completed in Kione sands.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Sun Oil Co. "Sunray-General Petroleum Whyler-Wolcott Unit" 1	Sunray Oil Corp. "Sunray-General Petroleum Whyler-Wolcott Unit" 1	May 1955	11 19N 2W	MD	10,807	Basement	pre-Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed)	2,045	25	Eocene	Princeton Gorge fill	990	1,710	955	III B 2M
(Unnamed sand stringers)	1,930-3,650	10-80 per stringer	Late Cretaceous	Kione	990	4,960-18,400	900-1,705	III B 3M
(Unnamed sand stringers)	4,420-6,400	3-60 per stringer	Late Cretaceous	Forbes	980	1,200-17,100	2,200-4,200	III B 3M
(Unnamed)	6,700	30	Late Cretaceous	Dobbins	N.A.	N.A.	4,440	III B 5M
(Unnamed)	7,275	70	Late Cretaceous	Guinda	980	N.A.	1,800	III B 5M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
6,801,592	58,310	9,560	65	291,355,077	29,202,019	1959	199	126	13,320

SPACING ACT: Applies

BASE OF FRESH WATER: 850-1,500

CURRENT CASING PROGRAM: Princeton Gorge fill: 8 5/8" cem. 500; 5 1/2" cem. through zone and across base of freshwater sands.  
Kione Formation: 8 5/8" cem. 500; 5 1/2" cem. through zone and across base of freshwater sands.  
Forbes Formation (upper): 8 5/8" cem. 800; 5 1/2" cem. through zone and across base of freshwater sands.  
Forbes (lower), Dobbins and Guinda Formations: 9 5/8" cem. 1,500; 5 1/2" cem. through zone.

## REMARKS:

The Ohio Oil Co. well No. "E.E. Willard" 1 (now operated by Transamerica Development Co.) blew out in January 1938 while operator was preparing to pull drill pipe from 4,505'. A large crater formed in which the derrick and equipment were lost. The well blew gas and water for 23 days. Commercial gas deliveries began in March 1944. Many of the gas-sand stringers in the Kione and Forbes Formations have been given local names by operators.

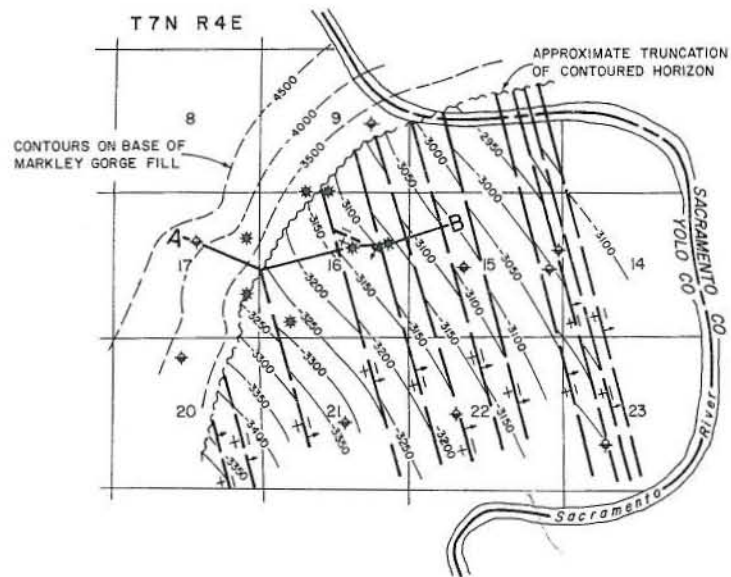
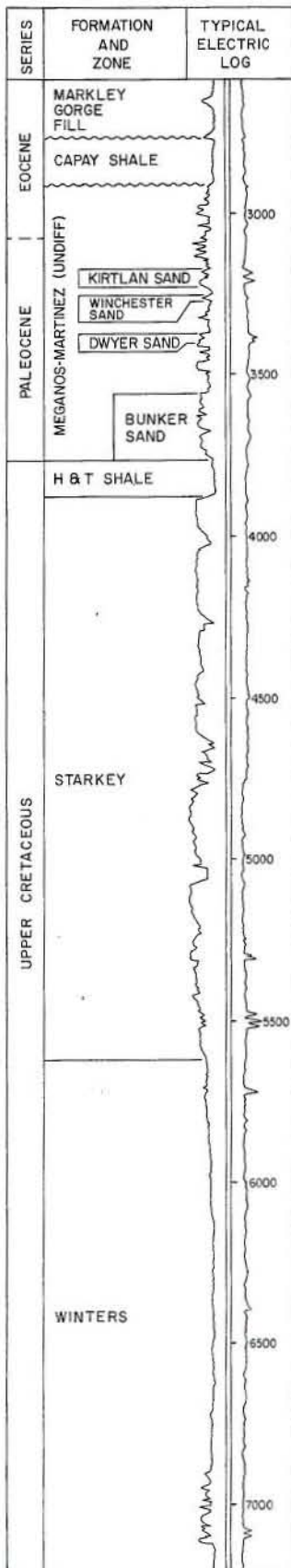
## REFERENCES:

Barger, R. M. and J. C. Sullivan, Willows-Beehive Bend Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 2, Part 2 (1966).

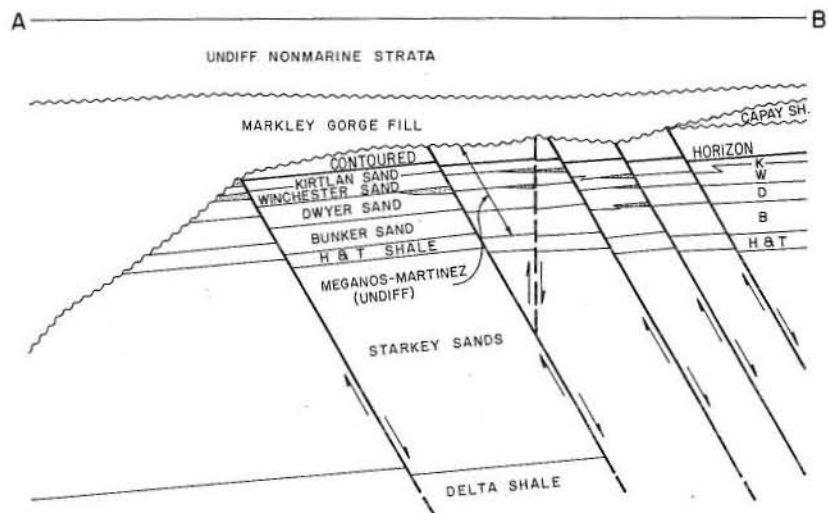
January 1978



# WINCHESTER LAKE GAS FIELD



CONTOURS ON TOP OF KIRTLAN SAND



COURTESY OF PHILLIP S. KISTLER

# CALIFORNIA DIVISION OF OIL AND GAS

WINCHESTER LAKE GAS FIELD (Field)  
Yolo County (County)

LOCATION: 8 miles southwest of central Sacramento

ELEVATION: 5

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B. & M.	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (inches)	
Kirtlan Sand	Atlantic Oil Co. "Kirtlan" 1	Same	9 7N 4E	MD	3,670	1,110	3/8	Aug. 1975
Winchester Sand	Atlantic Oil Co. "Winchester Lake" 2	Same	17 7N 4E	MD	1,070	1,250	3/16	Aug. 1973
Dwyer Sand	Atlantic Oil Co. "Dwyer" 1	Same	9 7N 4E	MD	3,682	1,115	3/8	Dec. 1974
Bunker Sand	Atlantic Oil Co. "Kirtlan" 4	Same	16 7N 4E	MD	1,108	1,292	3/16	Feb. 1976

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B. & M.	Total depth (feet)	At total depth	
						Strata	Age
Atlantic Oil Co. "Dwyer" 1	Same	Nov. 1974	9 7N 4E	MD	7,200	Winters	Late Cret.

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Heating value of gas (Btu)	Salinity of zone water (ppm)	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Kirtlan Sand	3,150	10	Eocene-Paleocene	Meganos-Martinez	886	N.A.	1,380	III B 2M
Winchester Sand	3,320	15	Eocene-Paleocene	Meganos-Martinez	873	N.A.	1,460	III B 2M
Dwyer Sand	3,380	10	Eocene-Paleocene	Meganos-Martinez	N.A.	N.A.	1,430	III B 2M
Bunker Sand	3,680	10	Eocene-Paleocene	Meganos-Martinez	920	N.A.	1,500	III B 2M

## PRODUCTION DATA

1976 Production		1977 Proved acreage	1976 Maximum number producing wells	1976 Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	480	0	0	See Remarks	--	8	7	480

SPACING ACT: Applies

BASE OF FRESH WATER: 1,800

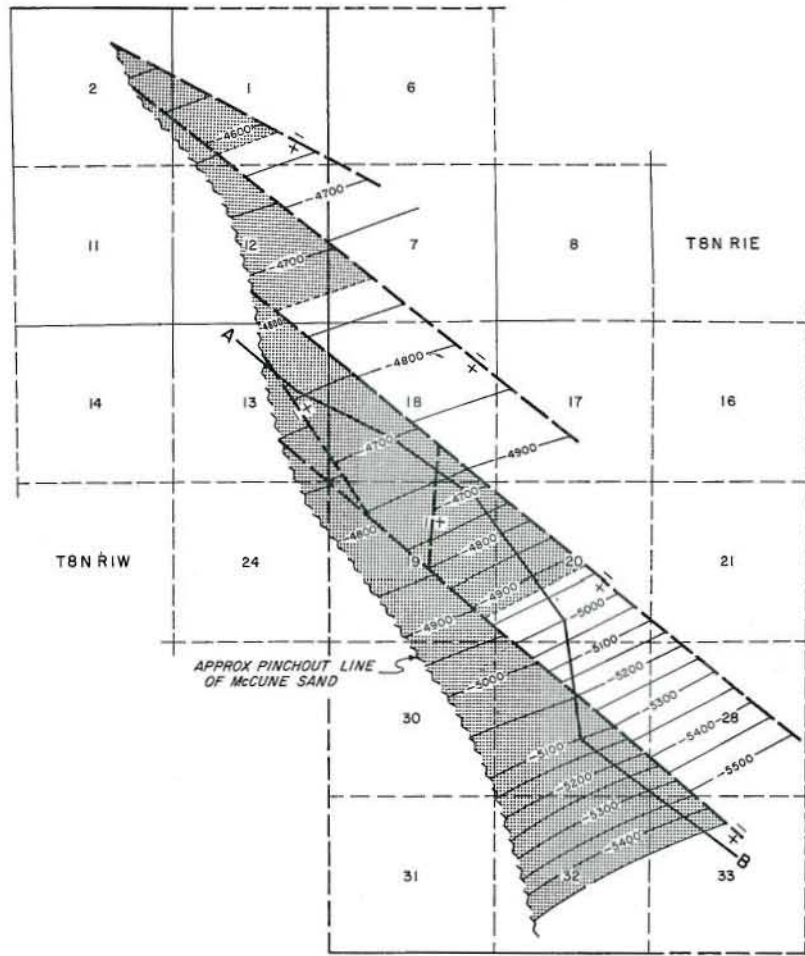
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zone and across base of freshwater sands.

REMARKS: Commercial gas deliveries have not yet begun.

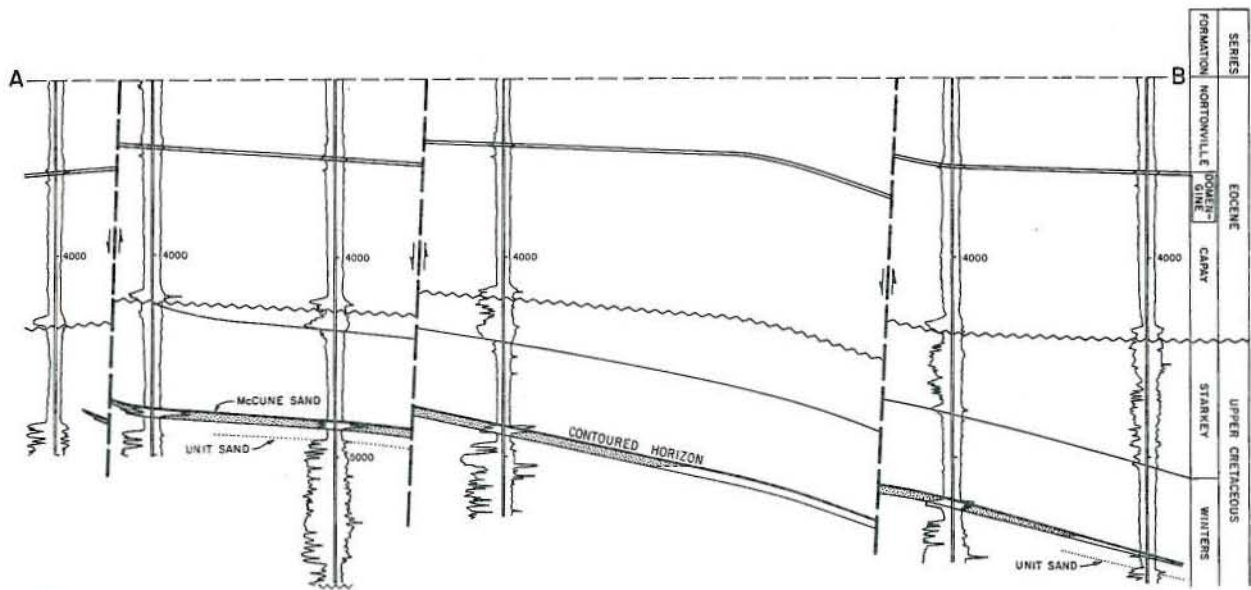
REFERENCES: Kistler, Philip S., Winchester Lake Gas Field in Technical Program Preprints: Pacific Sections A.A.P.G.-S.E.G. 52nd Annual Meeting, Bakersfield, California, April 20-23, 1977.

January 1978

# WINTERS GAS FIELD



CONTOURS ON TOP OF McCUNE SAND



## CALIFORNIA DIVISION OF OIL AND GAS

WINTERS GAS FIELD

Solano and Yolo Counties

LOCATION: 3 miles east of Winters

TYPE OF TRAP: Sand pinchout on faulted homocline

ELEVATION: 110

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
McCune	Shell Oil Co. "McCune" 1	Same as present	29 8N 1E	MD	12,500	1,626	1/2	Feb 1946
Unit	Albert A. Rembold "Winters Unit 1" 1	Shell Oil Co. "Winters Unit 1" 1	19 8N 1E	MD	A3,060	1,953	1/4	Sep 1946
Unit Oil Zone	Texaco Inc. "McCune" 1	Texaco Inc. "McCune Core Hole" 1	32 8N 1E	MD	B8,321	1,513	1/2	Sep 1959

Remarks: A Commingled production from McCune and Unit zones. B Texaco Inc. "McCune" 1 was completed as a gas well but when connected to a sales line began flowing 29 degree gravity oil. The average production during May 1960 was 79 barrels of oil and 512 Mcf of gas per day.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Albert A. Rembold "Winters Unit 2" 1	Shell Oil Co. "Winters Unit 2" 1	Aug 1946	18 8N 1E	MD	8,493	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
McCune	4,850	20	Lt Cretaceous	Winters	850 - 925	N.A.	2,107	IV
Unit	4,920	5	Lt Cretaceous	Winters	865	N.A.	2,489	IV
Unit Oil Zone	5,585	5	Lt Cretaceous	Winters	N.A.	N.A.	2,489	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
165,897	194	440	6	35,049,132	2,325,158	1963	33	17	870

SPACING ACT: Applies

BASE OF FRESH WATER: 2,400

CURRENT CASING PROGRAM: 10 3/4" or 9 5/8" cem. 500; 5 1/2" cem. through zones and across base of fresh-water sands.

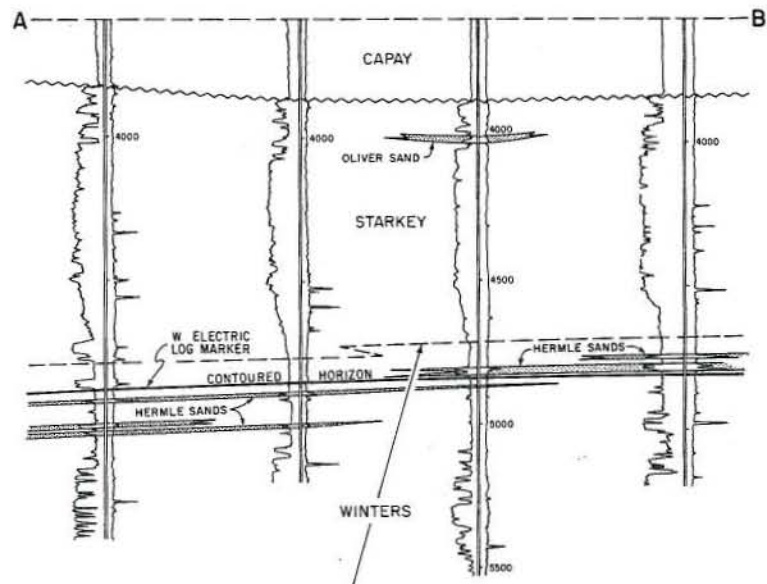
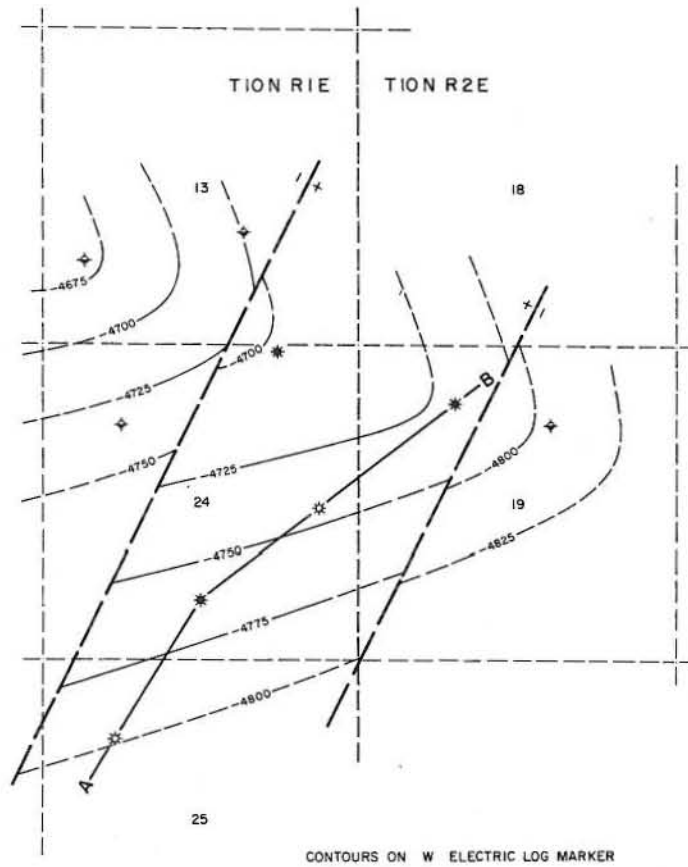
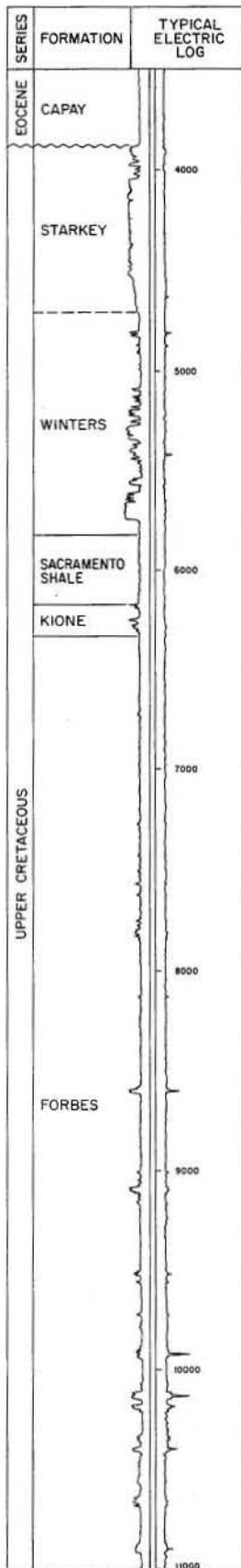
METHOD OF WASTE DISPOSAL: Shell Oil Co. operated a waste-water injection well from 1951 to 1965, when it was abandoned. Current disposal practice is by evaporation from pits at each well site.

REMARKS: Commercial gas deliveries began in January 1949. Texaco Inc. "McCune" 1 was the first commercial oil well in the Sacramento Valley and was the only oil well in the field; it was abandoned in March 1966. Cumulative oil production is 18,560 barrels, with a peak production of 9,865 barrels in 1960.

REFERENCES: Hunter, G.W., Winters Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 2 (1956).



# WOODLAND GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

WOODLAND GAS FIELD

Yolo County

LOCATION: 2 miles northwest of Woodland

TYPE OF TRAP: Sand lenses and pinchouts on a faulted nose

ELEVATION: 90

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Oliver	Atlantic Oil Co. "Shell-Oliver" 1	Same as present	24 10N 1E	MD	2,296	1,279	18/64	Sep 1962
Hermle	Jesse Roney "Hermle" 1	Atlantic Oil Co. "Shell-Hermle" 1	24 10N 1E	MD	8,639	1,816	30/64	Oct 1962

Remarks: Both bean sizes were estimated. Wells tested through orifice meters.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Oil Co. "Shell-Oliver" 1	Same	Aug 1962	24 10N 1E	MD	11,007	Forbes	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Oliver	3,988	32	Lt Cretaceous	Starkey	920	N.A.	1,765	IV
Hermle	4,730 - 5,130	15	Lt Cretaceous	Winters	900 - 930	1,200	2,100	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
92,651	56	460	3	2,483,719	461,757	1966	8	5	700

SPACING ACT: Applies

BASE OF FRESH WATER: 3,100

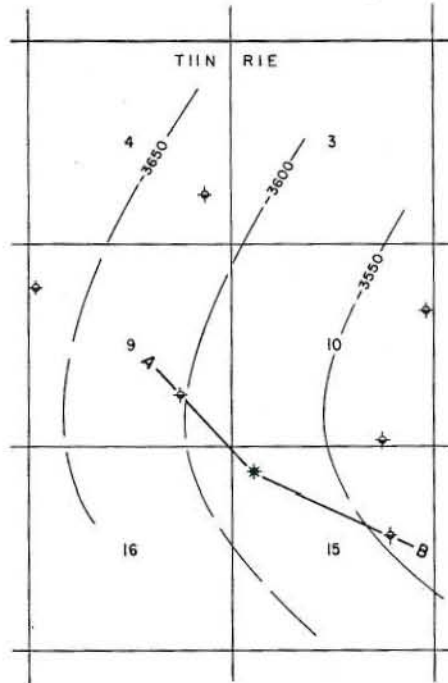
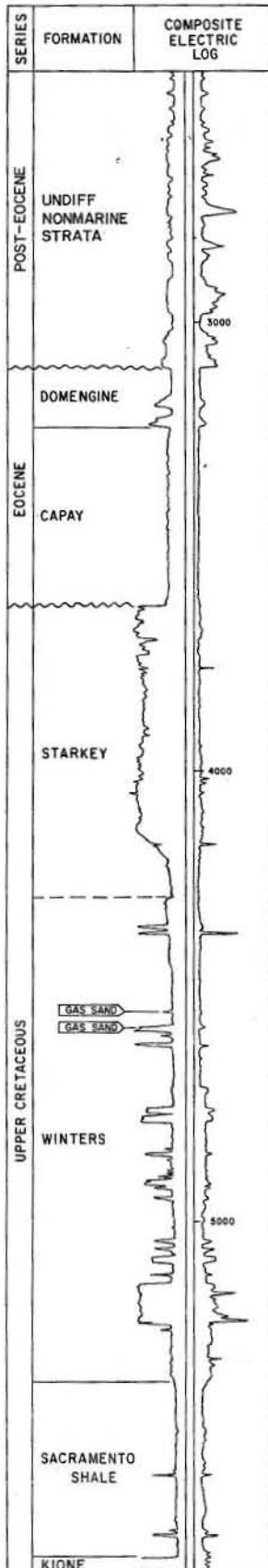
CURRENT CASING PROGRAM: 8 5/8" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

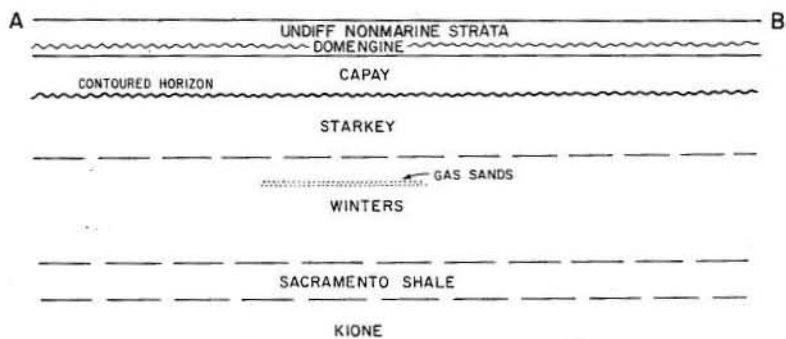
REMARKS: Commercial gas deliveries began in January 1965.

REFERENCES: Beecroft, G.W., Woodland Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 1 (1966).

# ZAMORA GAS FIELD



CONTOURS ON TOP OF STARKEY



## CALIFORNIA DIVISION OF OIL AND GAS

ZAMORA GAS FIELD

Yolo County

LOCATION: 10 miles northwest of Woodland

TYPE OF TRAP: Sand lenses

ELEVATION: 53

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
(Unnamed sand stringers)	Argo Petroleum Corp. "Hermle" 1	Kenyon C. Sills, Oper., Inc. "Hermle" 1	15 11N 1E	MD	1,318	1,500	1/8	Sep 1967

Remarks: Discovery well originally drilled and abandoned as well No. "Albert H. Hermle et ux" 1, a stratigraphic test by Humble Oil & Refining Co. (now Exxon Corp.). Kenyon C. Sills, Oper., Inc. acquired the well, cleaned out to 4,700 feet and completed it to production.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Argo Petroleum Corp. "Hermle" 1	Humble Oil & Refining Co. "Albert H. Hermle et ux" 1	Oct 1958	15 11N 1E	MD	5,756	Klone	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
(Unnamed sand stringers)	4,530	7 per stringer	Lt Cretaceous	Winters	1 959	N.A.	1,622	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	40	0	0	--	--	2	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,900

CURRENT CASING PROGRAM: 8 5/8" to 7" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands (see Remarks).

METHOD OF WASTE DISPOSAL:

REMARKS: 2 7/8" casing was cemented through zone in discovery well, but this is not common practice in this area. The well is shut in.

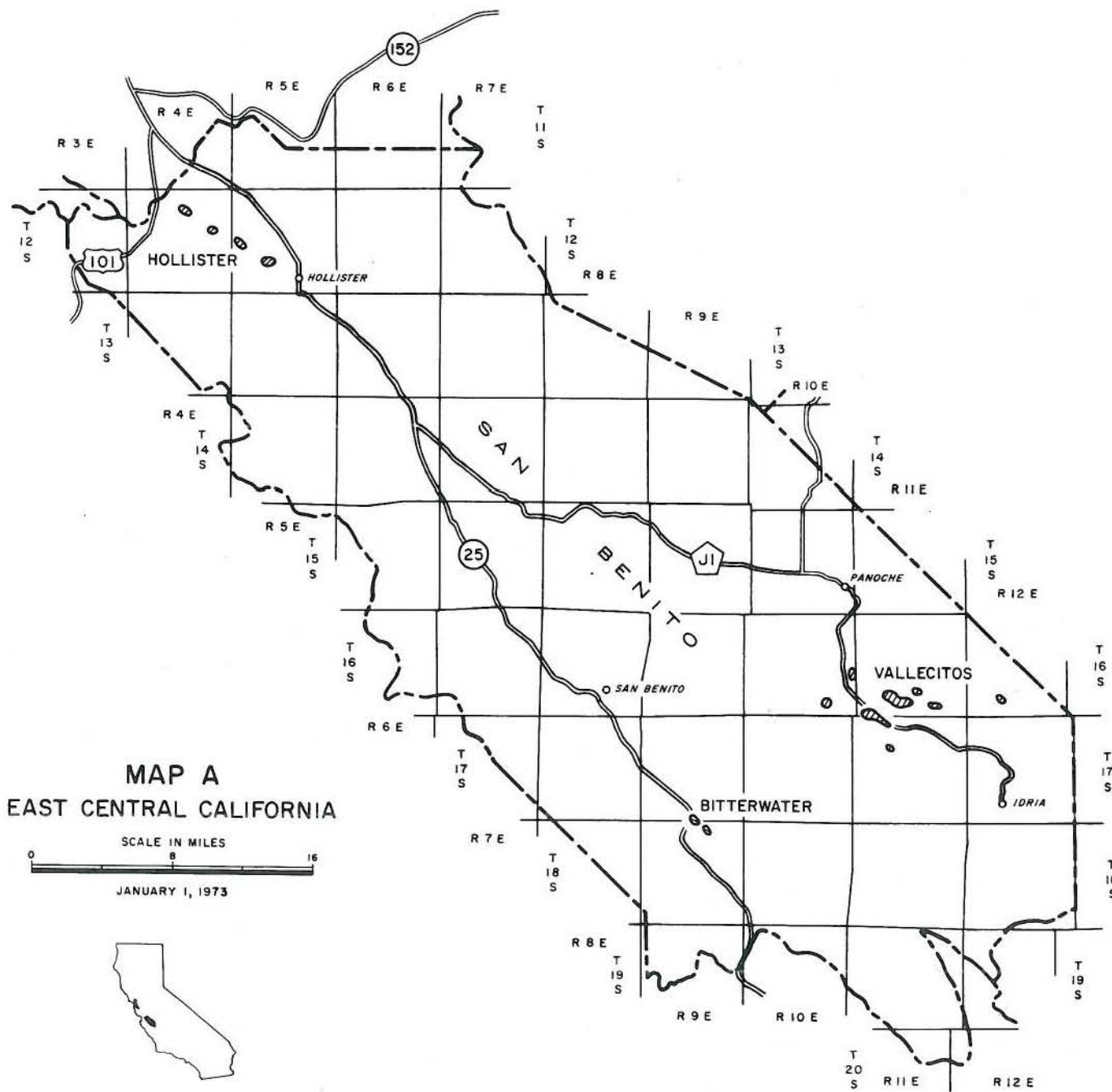
REFERENCES:



**CALIFORNIA  
OIL & GAS FIELDS  
AQUIFER EXEMPTION  
VOLUME 1B**

(Public Hearing Exhibit #13)

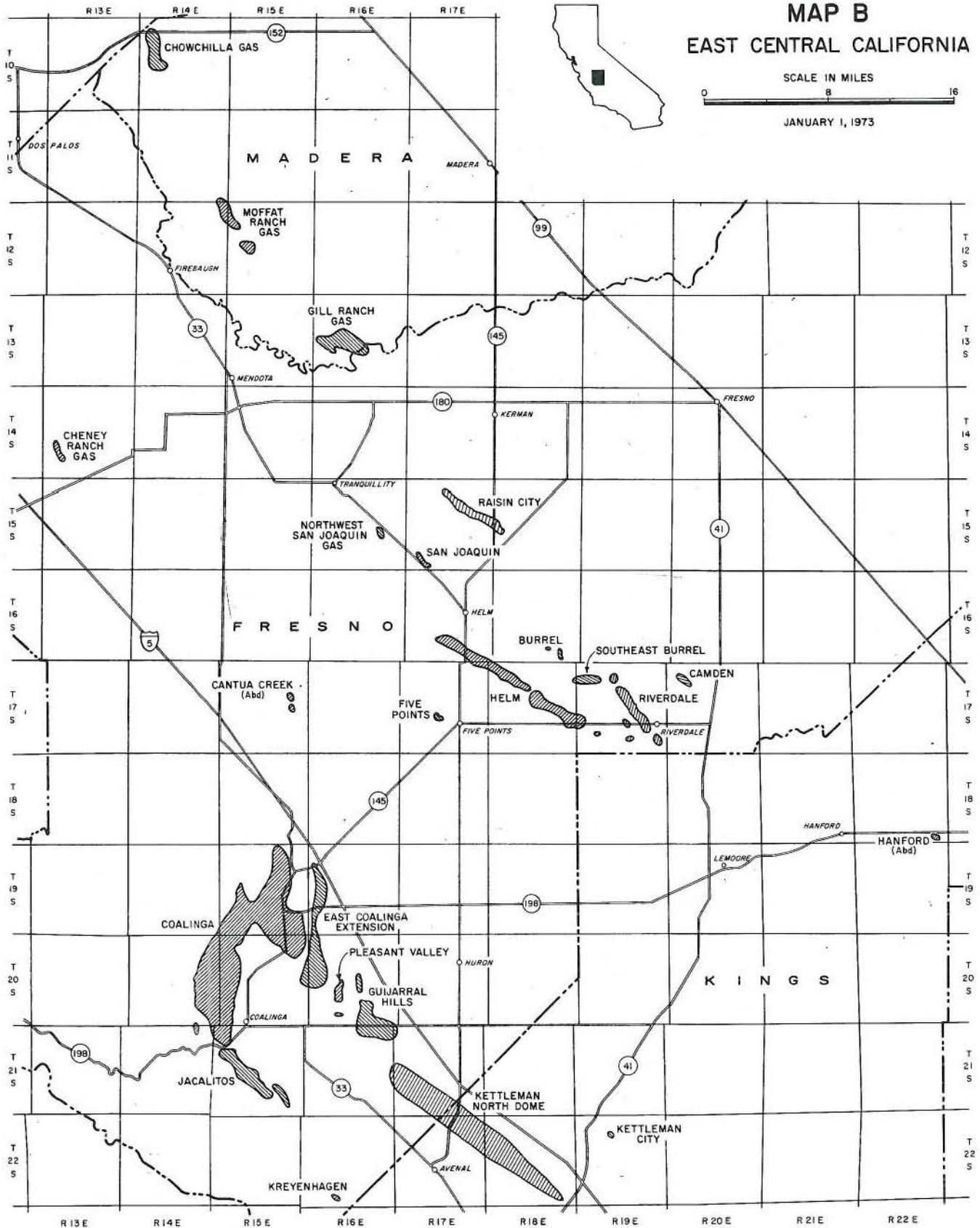


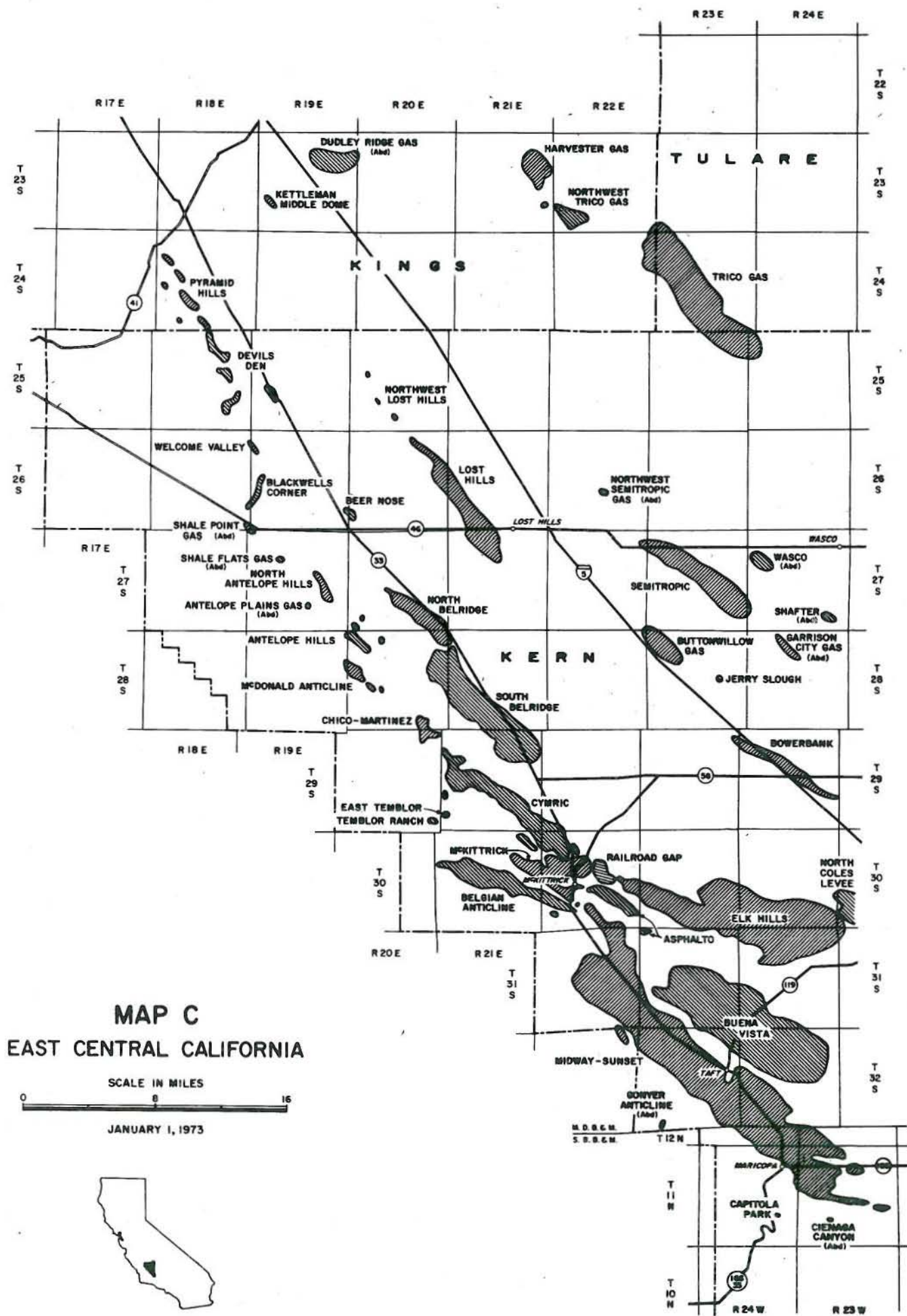


# MAP B EAST CENTRAL CALIFORNIA

SCALE IN MILES  
0 8 16

JANUARY 1, 1973





MAP C  
EAST CENTRAL CALIFORNIA

SCALE IN MILES  
0 8 16  
JANUARY 1, 1973



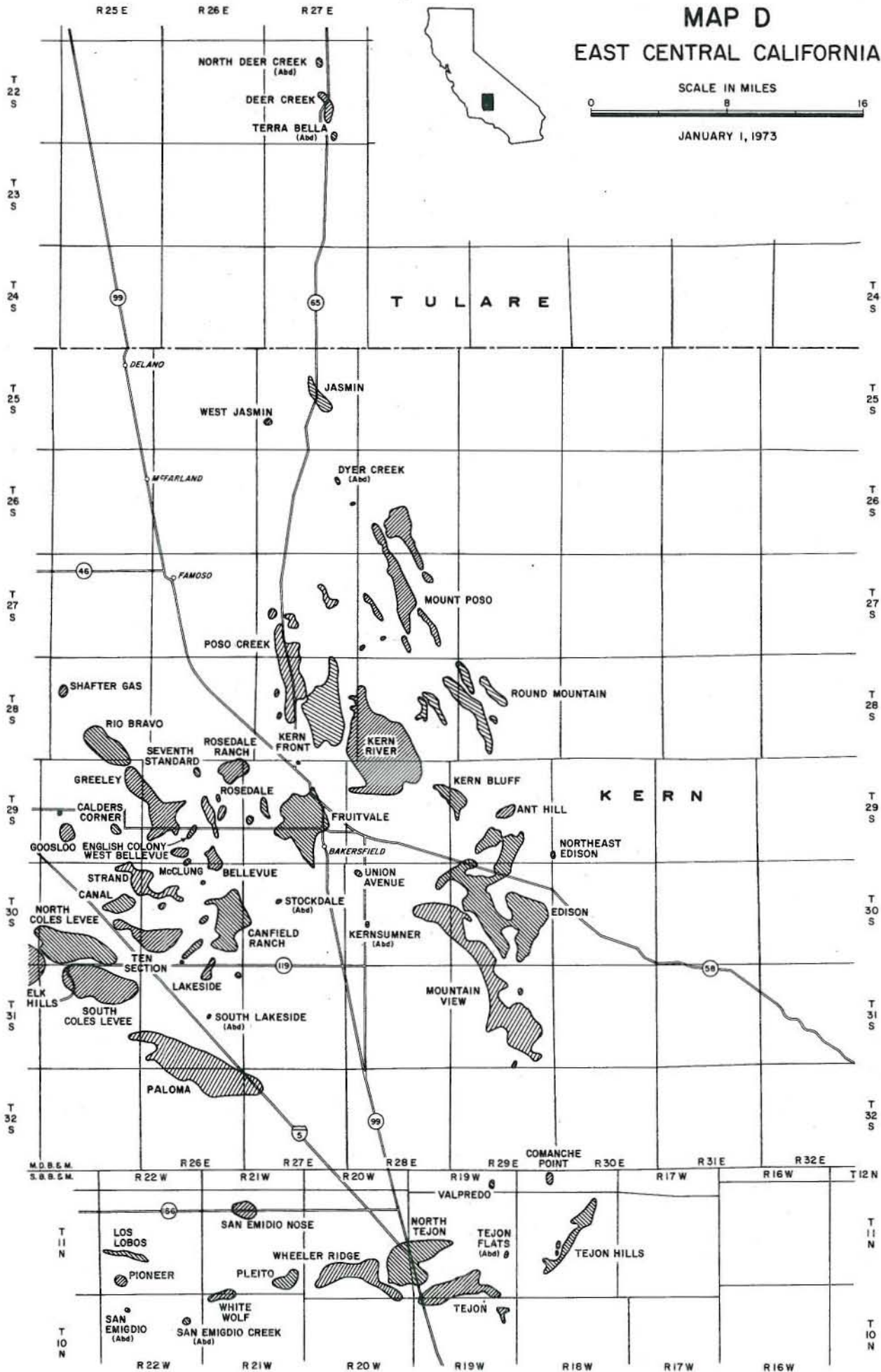


# MAP D EAST CENTRAL CALIFORNIA

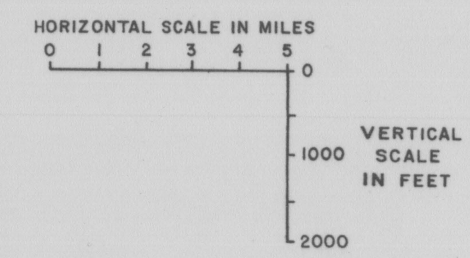
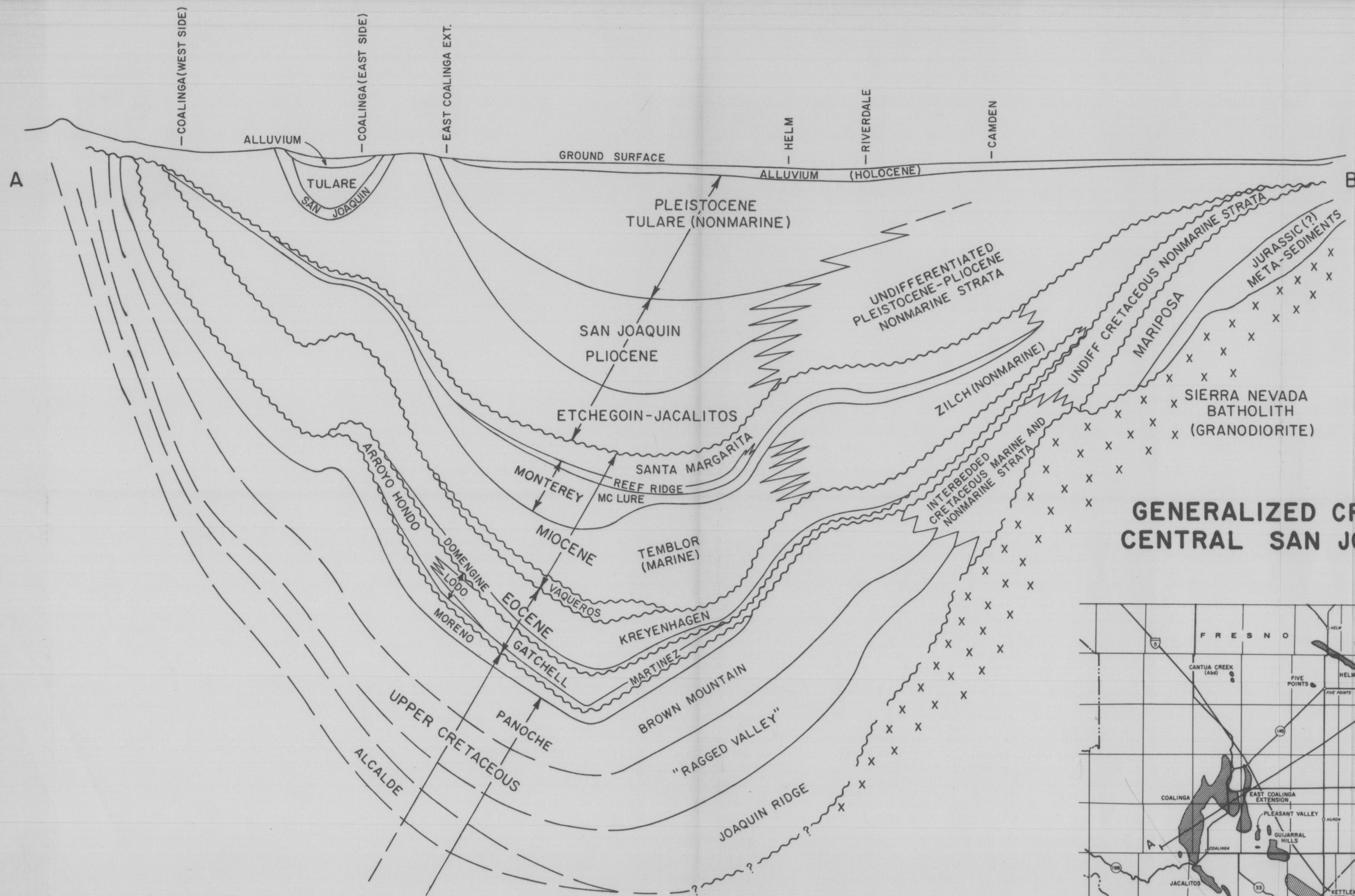


SCALE IN MILES  
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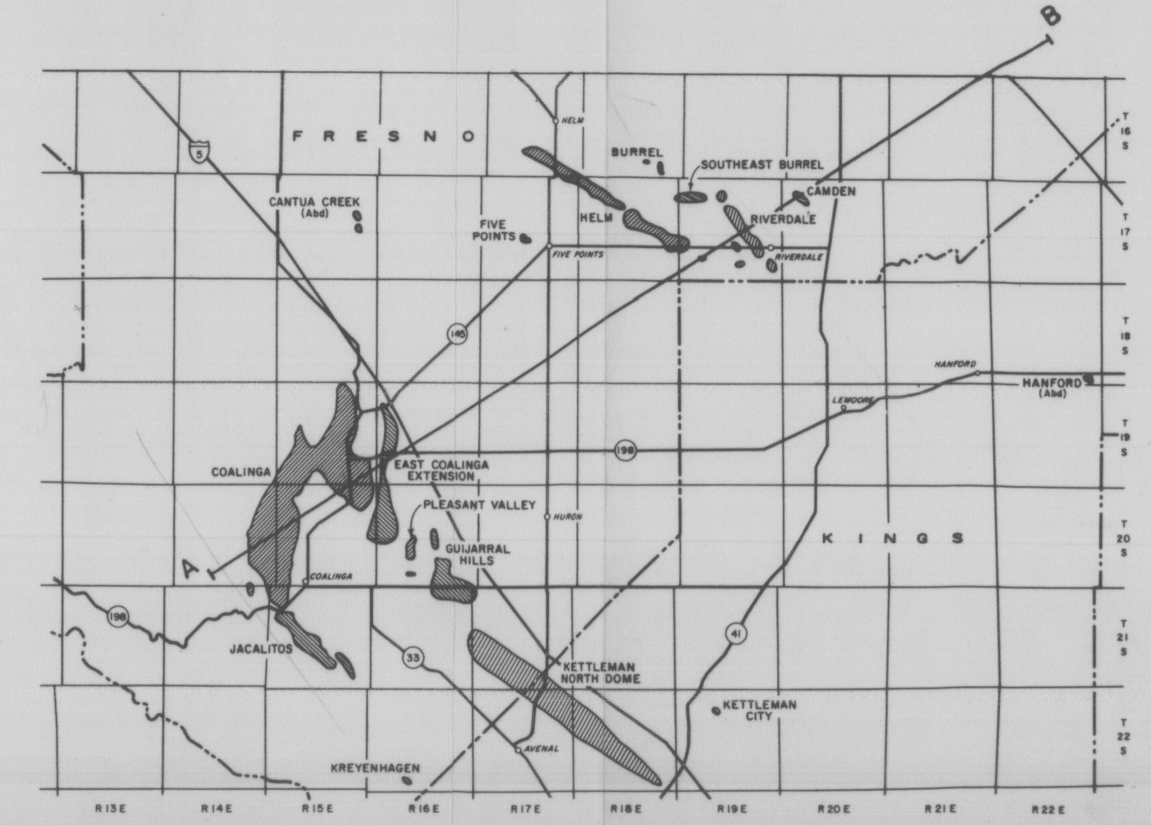
JANUARY 1, 1973







**GENERALIZED CROSS SECTION  
CENTRAL SAN JOAQUIN VALLEY**



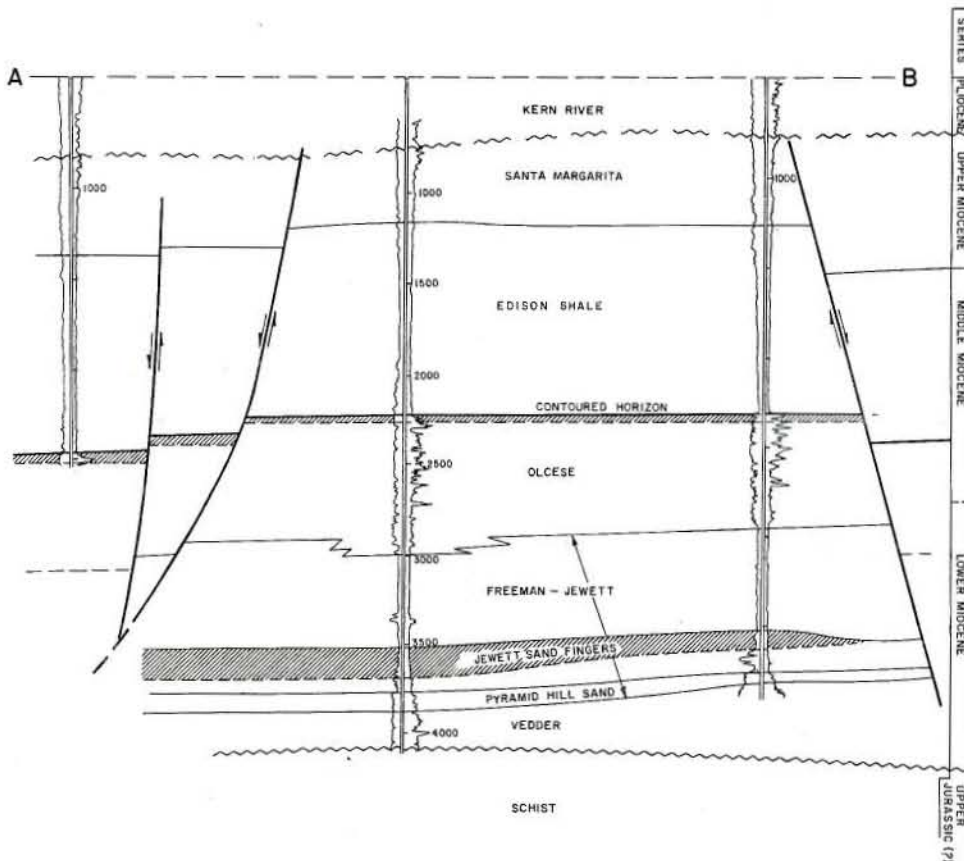
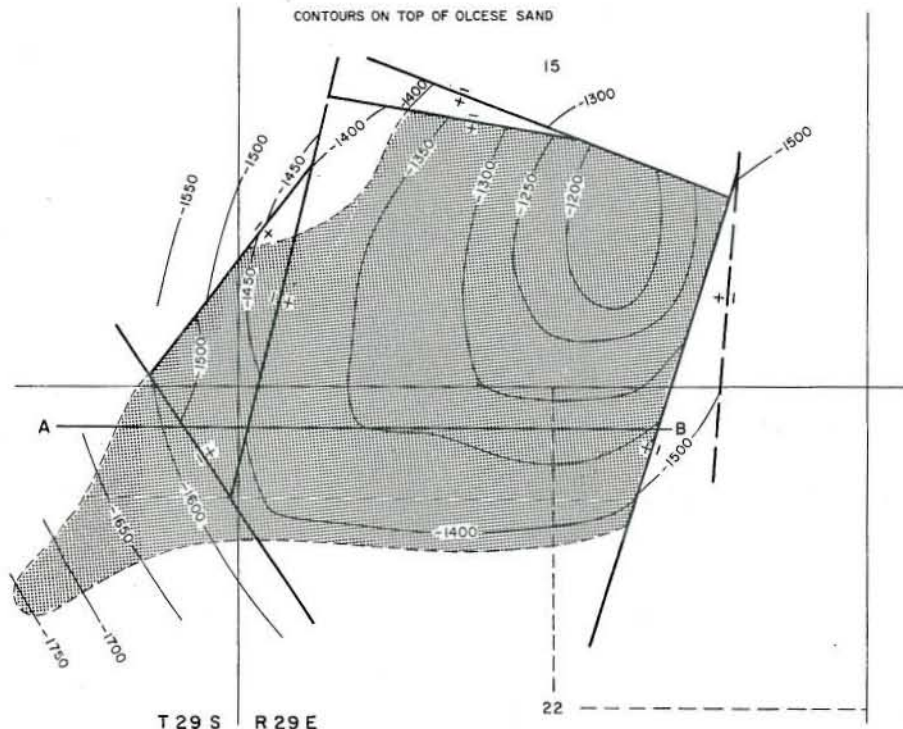




***EAST CENTRAL CALIFORNIA  
MAPS AND DATA SHEETS***



# ANT HILL OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

ANT HILL OIL FIELD

Kern County

LOCATION: 7 miles east of Bakersfield

TYPE OF TRAP: Faulted anticline; lenticular sands

ELEVATION: 850

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Olcese	Samson Resources Co. "Southern Pacific" 3615	Amerada Petroleum Corp. "Southern Pacific" 36-15	15 29S 29E	MD	80	N.A.	Jul 1944
Jewett	Samson Resources Co. "Southern Pacific" 815	Amerada Petroleum Corp. "Southern Pacific" 8-15	15 29S 29E	MD	182	N.A.	Nov 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. Well No. 63	Same	Jun 1967	21 29S 29E	MD	4,890	Basement	Jurassic

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Olcese	2,300	700	early Miocene	Olcese	13	90	None
Jewett	3,500	30	early Miocene	Freeman - Jewett	39	270	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
163,847	0	3,304,377	295	28	5,598,634	232,653	458,488	1947	51	38	315

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1959	29,238,392	1

SPACING ACT: Applies

BASE OF FRESH WATER: 850

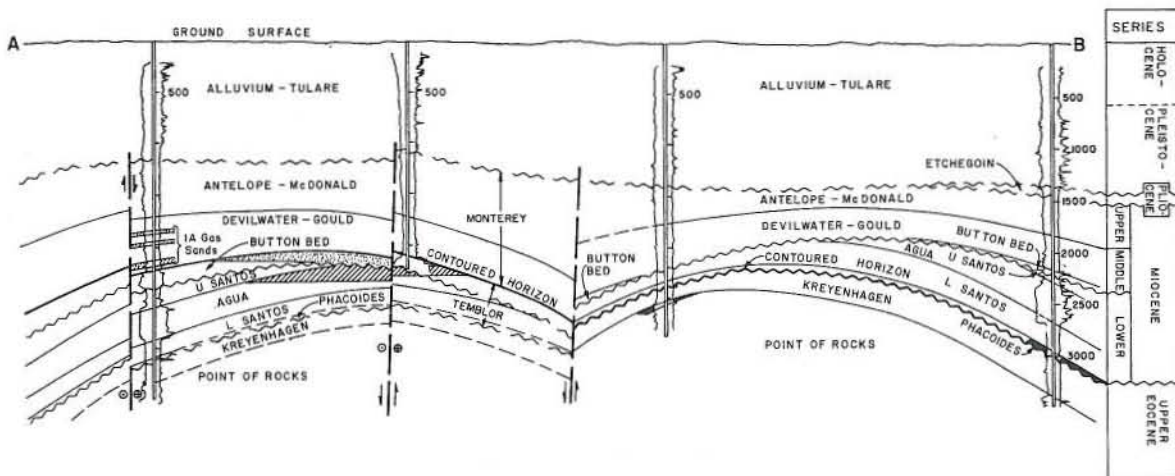
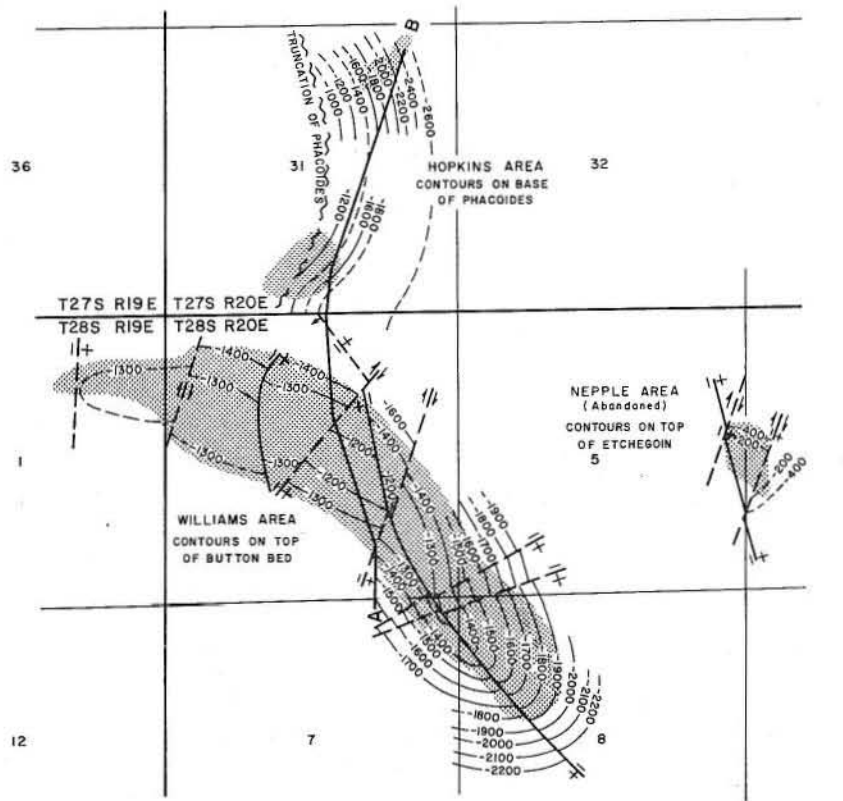
CURRENT CASING PROGRAM: Olcese: 7" cem. 2,300; 5 1/2" liner landed through zone. Jewett: 5 1/2" cem. 3,700.

METHOD OF WASTE DISPOSAL: Major portion used in water-flood operations.

REMARKS: Olcese and Jewett zone water boron contents are 8.2 and 14.7 ppm, respectively.

REFERENCES: Bailey, W.C., Ant Hill Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 33, No. 2 (1947).

# ANTELOPE HILLS OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

ANTELOPE HILLS OIL FIELD

Kern County

LOCATION: 34 miles northwest of Taft

TYPE OF TRAP: See areas

ELEVATION: 850

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Agua	Shell Oil Co. "Williams" 45-6	Shell Oil Co. Inc. "Williams" 45-6	6 28S 20E	MD	700	N.A.	May 1942

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Shell-Intex-Voigt" 33-4	Same	Jul 1953	4 28S 20E	MD	11,500	Santos	early Mio

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

(Dry gas production data not included-see Williams Area and Nepple Area-Gas)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
233,193	21,977	1,908,043	480	64	13,165,751	7,459,907	757,109	1943	131	80	480

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: See areas

METHOD OF WASTE DISPOSAL: See areas

REMARKS:

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

HOPKINS AREA

ANTELOPE HILLS OIL FIELD

Kern County

LOCATION: See map sheet of Antelope Hills Oil Field

TYPE OF TRAP: Localized permeability on a broad anticline

ELEVATION: 830

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Phacoides	Shell Oil Co. "Hopkins A" 62X-31	Shell Oil Co. Inc. "Hopkins A" 62X-31	31 27S 20E	MD	33	N.A.	Jan 1952
Point of Rocks	Shell Oil Co. "Hopkins A" 57X-31	Shell Oil Co. Inc. "Hopkins Fee" 57X-31	31 27S 20E	MD	31	N.A.	Jun 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Hopkins Fee" 72X-31	Same	Jan 1951	31 27S 20E	MD	3,501	Point of Rocks	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Phacoides	2,400 - 3,400	15	early Miocene	Temblor	31	N.A.	None
Point of Rocks	2,000 - 2,500	30 - 100	late Eocene	Kreyenhagen	17	865	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
5,451	0	1,591	70	4	426,008	0	48,064	1952	21	7	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 5 1/2" combination string landed through zone and cemented through ports above zone.

METHOD OF WASTE DISPOSAL: Unlined sumps.

REMARKS:

REFERENCES: Lorshbough, A.C., Antelope Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 2 (1961).

# CALIFORNIA DIVISION OF OIL AND GAS

ANTELOPE HILLS OIL FIELD

Kern County

NEPPLE AREA GAS (Abandoned)

LOCATION: See map sheet of Antelope Hills Oil Field

TYPE OF TRAP: Faulted anticlinal nose

ELEVATION: 800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Etchegoin	Estate of Edward A. Nepple, W.A. MacMullen, Trustee "Nepple Custodian" 5-84	Edward Nepple "Nepple Custodian" 5-84	S 28S 20E	MD	1,620	140	48/64	Sep 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Shell-Intex-Voigt" 33-4	Same	Jul 1953	4 28S 20E	MD	11,500	Santos	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Etchegoin	1,000	40	Pliocene	Etchegoin	995	2,900	323	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	403,053	123,102	1956	15	5	40

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem. through zone.

METHOD OF WASTE DISPOSAL: No water produced.

REMARKS: Last production in 1963. Area abandoned in 1965.

REFERENCES: Lorshbough, A.L., Antelope Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 2 (1961).

# CALIFORNIA DIVISION OF OIL AND GAS

WILLIAMS AREA

ANTELOPE HILLS OIL FIELD

Kern County

LOCATION: See map sheet of Antelope Hills Oil Field

TYPE OF TRAP: Faulted anticline

ELEVATION: 870

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper IA (or 67-6) gas zone	Shell Oil Co. "Williams" 505-6	Same as present	6 28S 20E	MD	144	N.A.	Jun 1971
	Shell Oil Co. "Williams" 67-6	Shell Oil Co. Inc. "Williams" 67-6	6 28S 20E	MD	N.A.	300	Jun 1942
Button Bed (1B or 23-6)	Shell Oil Co. "Williams" 23-6	Shell Oil Co. Inc. "Williams" 23-6	6 28S 20E	MD	85	N.A.	Sep 1942
Agua (11B or 45-6)	Shell Oil Co. "Williams" 45-6	Shell Oil Co. Inc. "Williams" 45-6	6 28S 20E	MD	700	N.A.	May 1942

Remarks: Upper zone initial daily oil production was after steam stimulation.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Voigt Three" 1	Shell Oil Co. Inc. "Voigt Three" 1	Aug 1936	5 28S 20E	MD	4,854	Point of Rocks	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper	845 - 1,400	10 - 80	Pleistocene	Tulare	12	45	None
IA gas zone	1,900	20	middle Miocene	Monterey	900	415	II
Button Bed	2,100	80	middle Miocene	Tembler	17	244	II
Agua	2,300	70 - 170	early Miocene	Tembler	17	150	II

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included -- see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
227,742	21,977	1,906,452	410	60	12,739,743	7,459,907	757,109	1943	100	73	410

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation from unlined sumps and injection into a disposal well.

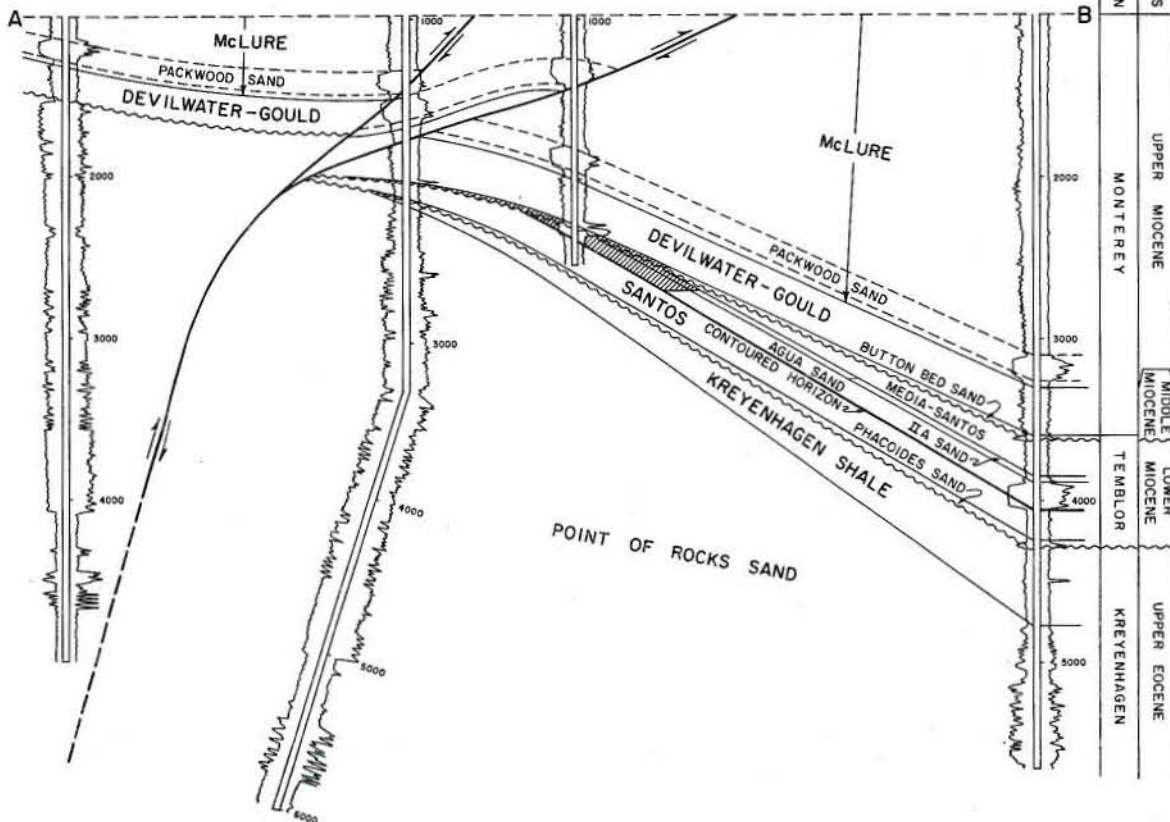
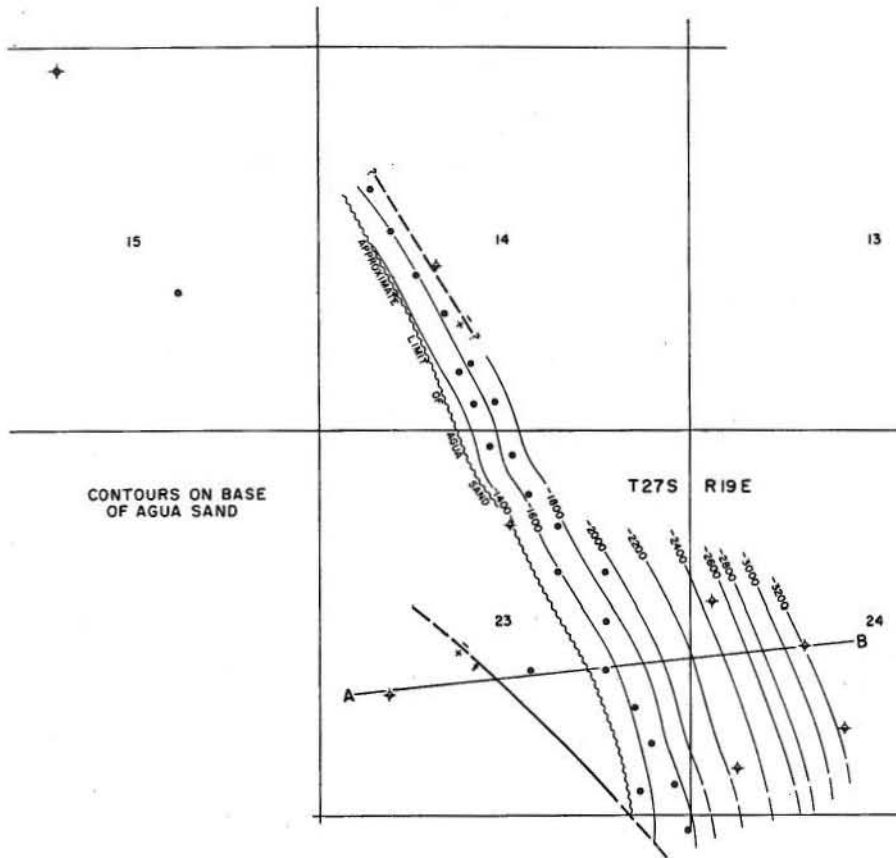
REMARKS: Two dry gas zone wells were drilled and completed. The 1972 dry gas production was 22,281 Mcf; cumulative dry gas production was 338,586 Mcf.

REFERENCES: Lorshbough, A.L., Antelope Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 2 (1961).  
Woodward, W.T., Antelope Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 28, No. 2 (1942).





# NORTH ANTELOPE HILLS OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

ANTELOPE HILLS, NORTH, OIL FIELD

Kern County

LOCATION: 38 miles northwest of Taft

TYPE OF TRAP: Sand truncation and overlap on a faulted homocline

ELEVATION: 800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Button Bed	Shell Oil Co. "Hopkins B" 63X-23	Shell Oil Co. "Hopkins B" 63X-23	23 27S 19E	MD	500	0	Jun 1950
II A	Same as above	Same as above	23 27S 19E	MD	N.A.	N.A.	Jun 1950
Agua	Same as above	Same as above	23 27S 19E	MD	N.A.	N.A.	Jun 1950
Point of Rocks	Getty Oil Co. "Shale Point Unit" 31-15	Tidewater Oil Co. "Shale Point Unit" 31-15	15 27S 19E	MD	6	0	Mar 1965

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Hopkins B" 55X-23	Same	Nov 1953	23 27S 19E	MD	6,000	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Button Bed	2,340	15	m Miocene	Temblor	16	950	II
II A	2,360	5	e Miocene	Temblor	15	950	II
Agua	2,380	100	e Miocene	Temblor	15	1,090	II
Point of Rocks	1,545	30	lt Eocene	Kreyenhagen	16	490	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
32,696	9,490	818,700	280	18	3,179,727	672,787	557,526	1952	42	24	290

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

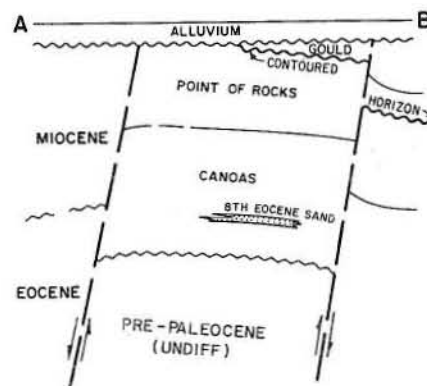
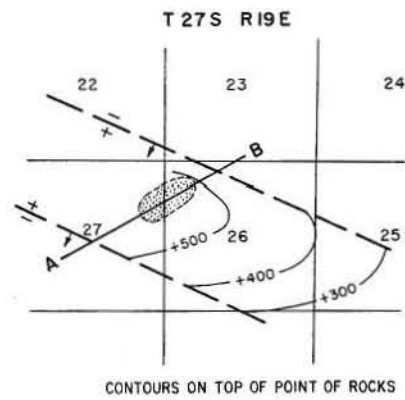
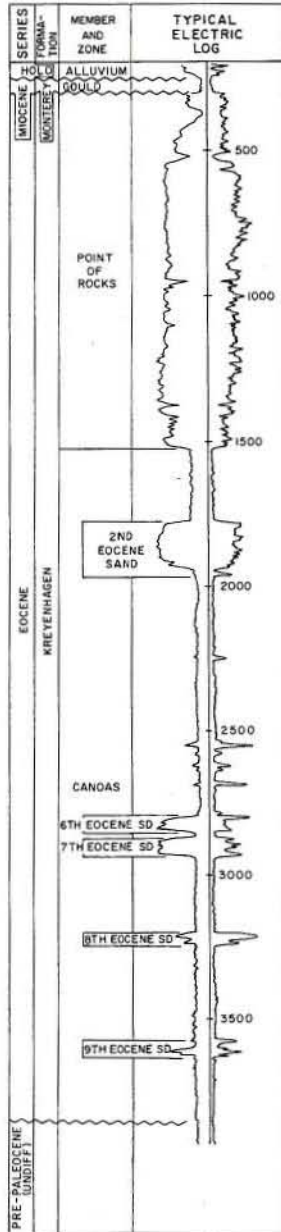
CURRENT CASING PROGRAM: 8 5/8" cem. 2,300; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation from unlined sumps.

REMARKS: A cyclic-steam operation was initiated in November 1970 and terminated after 33,681 bbls. of water (in the form of steam) were injected.

REFERENCES: Armbruster, E., North Antelope Hills Field: AAPG-SEPM-SEG Guidebook, Joint Annual Meeting, Los Angeles, 1952, pp. 211-213.  
 Bruce, D.D., North Antelope Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 2 (1956).

# ANTELOPE PLAINS GAS FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

ANTELOPE PLAINS GAS FIELD (Abandoned)

Kern County

LOCATION: 38 miles northwest of Taft

TYPE OF TRAP: Lithofacies change

ELEVATION: 850

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
8th Eocene sand	Tesoro Petroleum Corp. "Bolton" 83	Independent Exploration Co. "Bolton" 83	27 27S 19E	MD	1,390	1,370	14/64	Jun 1949

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tesoro Petroleum Corp. "Bolton" 83	Independent Exploration Co. "Bolton" 83	Feb 1949	27 27S 19E	MD	4,313	N.A.	pre-Paleoc

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
8th Eocene sand	3,200	35	Eocene	Kreyenhagen	1,040	550	1,470	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	35,376	30,655	1949	3	1	10

SPACING ACT: Applies

BASE OF FRESH WATER: 200

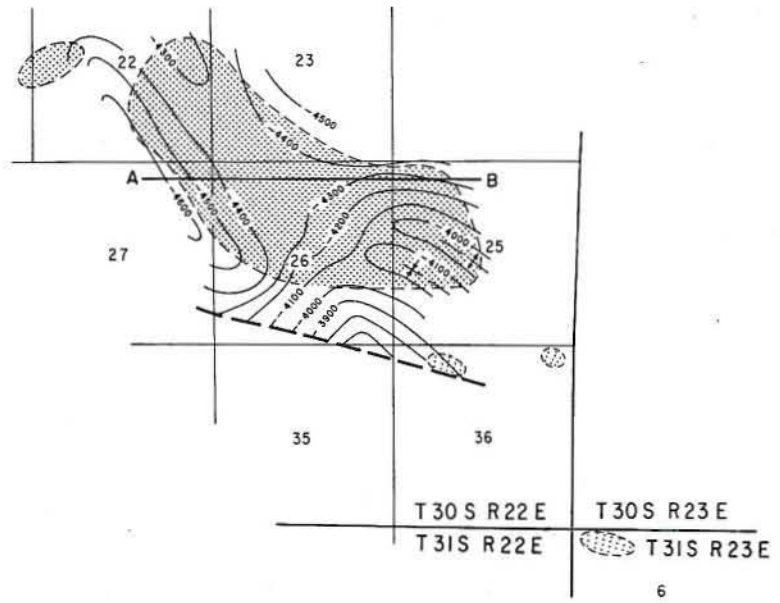
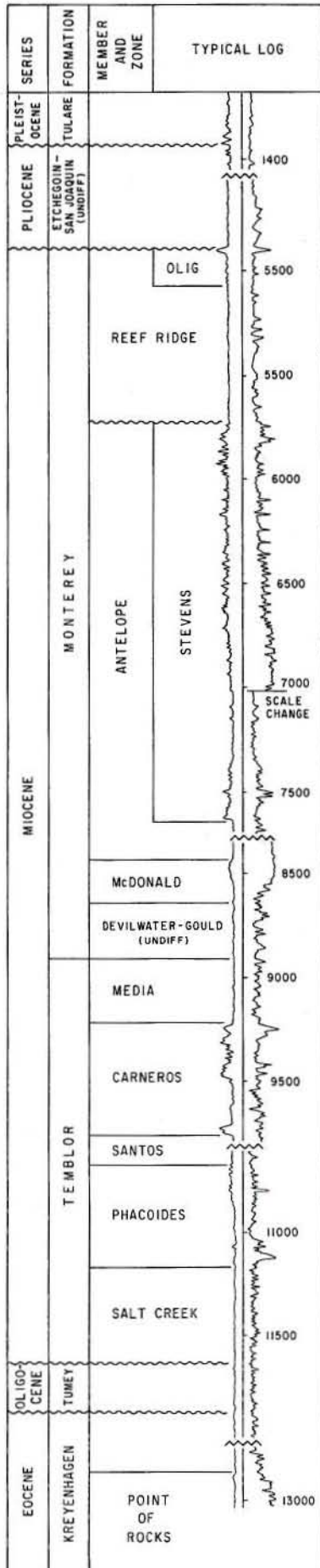
CURRENT CASING PROGRAM: 11 3/4" cem.200; 7" cem.through zone.

METHOD OF WASTE DISPOSAL:

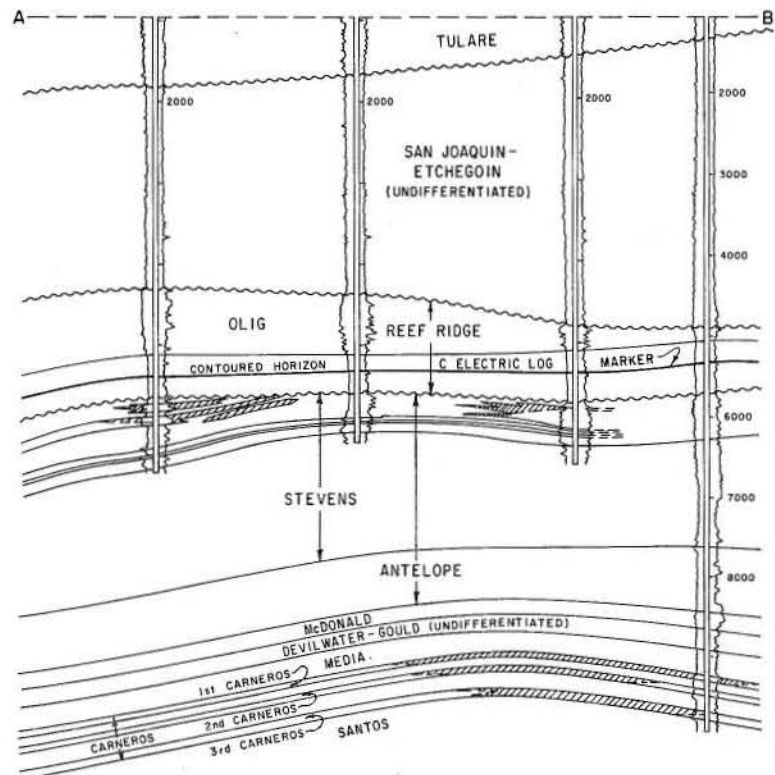
REMARKS: Abandoned in August 1950. A small amount of condensate was recovered.

REFERENCES:

# ASPHALTO OIL FIELD



CONTOURS ON C ELECTRIC LOG MARKER





## CALIFORNIA DIVISION OF OIL AND GAS

ASPHALTO OIL FIELD

Kern County

LOCATION: 12 miles northwest of Taft

TYPE OF TRAP: Anticline; lensing; angular unconformity

ELEVATION: 950

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin	Crown Central Petroleum Corp. "Mason" 2	Western Oil Fields Corp. No. 2	6 31S 23E	MD	153	N.A.	Jul 1923
Olig	W.T. Woodward and American Placers Inc. "Flickenger" 1	MacDonald, Burns and Norris "Flickenger" 1	36 30S 22E	MD	50	5,795	Oct 1944
Stevens	General Crude Oil Co., Opr. "Standard Oil Co." 18	E.A. Bender, Opr. "Standard Oil Co." 18	23 30S 22E	MD	312	825	Dec 1962
Antelope Shale	Bob Ferguson Independent No. 32X-36	Same as present	36 30S 22E	MD	110	43	Jan 1967
Carneros	Standard Oil Co. of Calif. No. 545	Same as present	25 30S 22E	MD	446	1,756	Nov 1967

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. No. 532	Same	May 1968	25 30S 22E	MD	13,455	Point of Rocks	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin	3,050	15	Pliocene	Etchegoin	19	N.A.	II
Olig	4,825	20	late Miocene	Monterey	30 - 75	N.A.	III
Stevens	5,660	165	late Miocene	Monterey	36	1,270	III
Antelope Shale	7,550	200	late Miocene	Monterey	36	N.A.	III
Carneros	8,510	200	early Miocene	Temblor	35	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
929,642	5,729,498	4,955,511	830	58	28,851,621	51,799,060	5,202,894	1964	110	85	890

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies except for NW 1/4 of Sec. 6, T. 31S., R. 23E.

BASE OF FRESH WATER: None

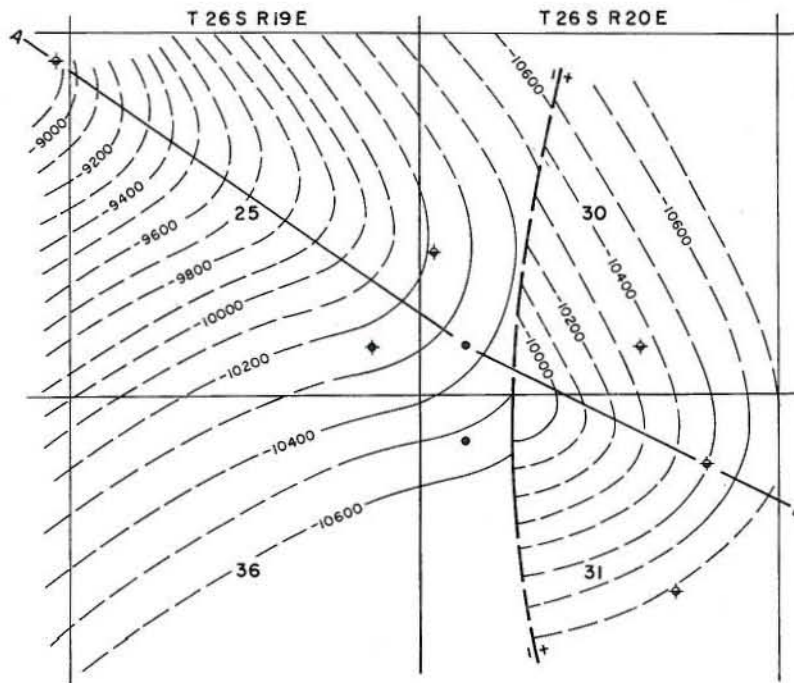
CURRENT CASING PROGRAM: Miocene zones: 10 3/4" cem.500; 7" or 5" cemented through zone.

METHOD OF WASTE DISPOSAL: Unlined sumps.

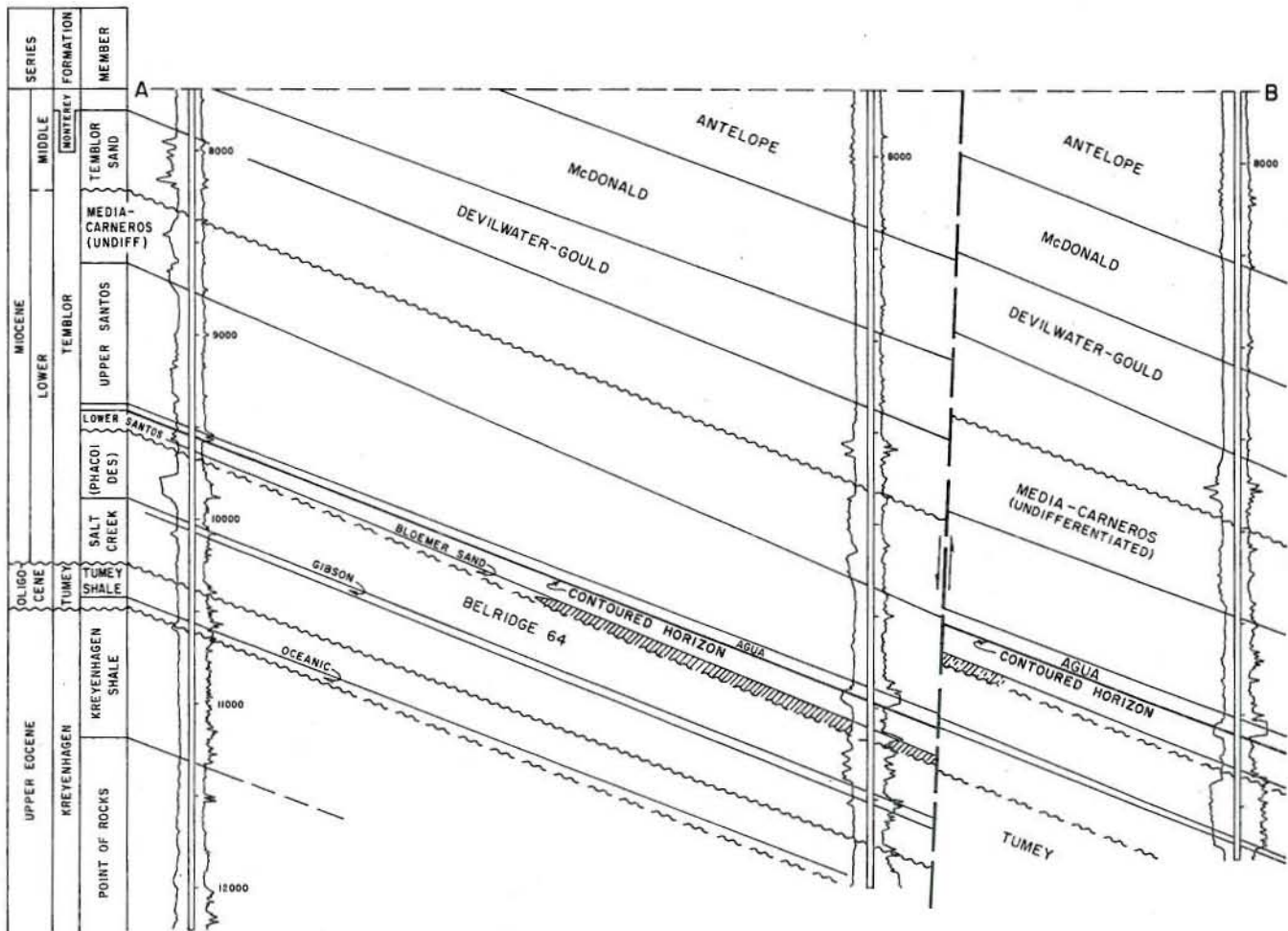
REMARKS: Asphalt Oil Field derives its name from mining activities predating the turn of the century. Asphalt and viscous oil was recovered from surface outcrops, pits and shallow wells.

REFERENCES: Anderson, D.N., Stevens Pool of Asphalt Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 1 (1963).

# BEER NOSE OIL FIELD



CONTOURS ON TOP OF LOWER SANTOS



## CALIFORNIA DIVISION OF OIL AND GAS

BEER NOSE OIL FIELD

Kern County

LOCATION: 43 miles northwest of Taft

TYPE OF TRAP: Permeability barrier on an anticlinal nose

ELEVATION: 625

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Bloemer	Getty Oil Co. "O.L.C." 1	Same as present	31 26S 20E	MD	231	50	Mar 1968

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. "S & G Gump" 1	Same	Nov 1967	30 26S 20E	MD	11,998	Oceanic	Oligocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Bloemer	11,100	60	early Miocene	Temblor	29	850	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
43,111	15,334	0	80	2	293,433	73,135	75,116	1968	4	3	120

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 10 3/4" cem. 3,000; 7" cem. above zone; 5" liner landed through zone.

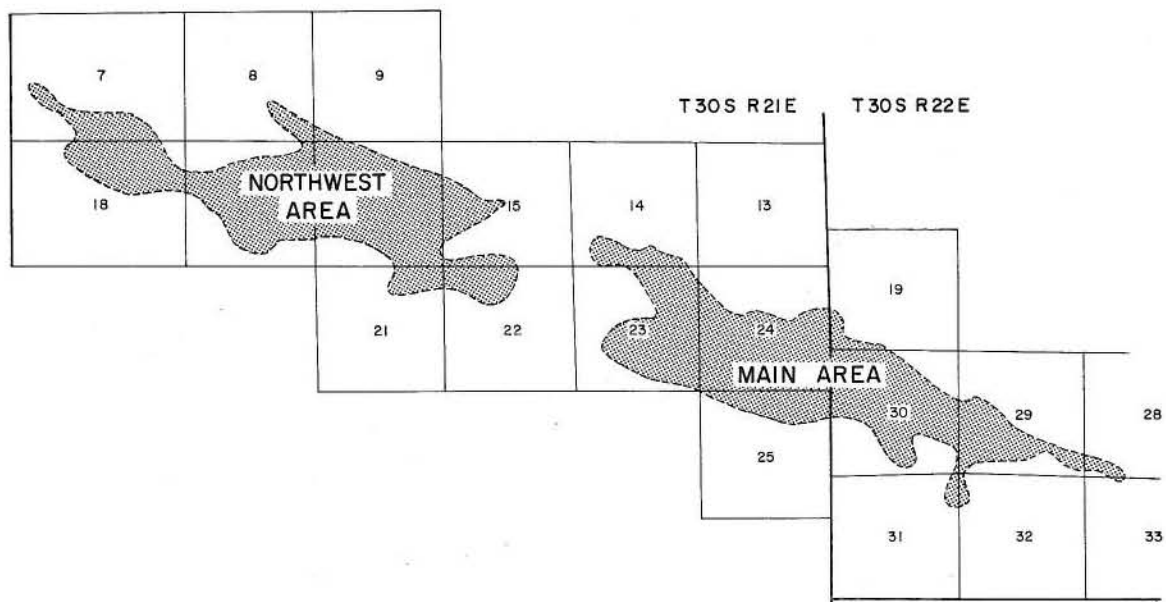
METHOD OF WASTE DISPOSAL:

REMARKS:

REFERENCES: Miller, H.J., Beer Nose Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 57, No. 1 (1971).

# BELGIAN ANTICLINE OIL FIELD

Index Map



## CALIFORNIA DIVISION OF OIL AND GAS

BELGIAN ANTICLINE OIL FIELD

Kern County

LOCATION: 18 miles northwest of Taft

TYPE OF TRAP: See areas

ELEVATION: 1,400 - 2,800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Oceanic	Texaco Inc. "Westpet NCT One" 77-29	The Texas Co. "Westpet" 1	29 30S 22E	MD	140	2,230	Oct 1946

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. "Midway-McKittrick A" 22-30	Pacific Western Oil Corp. "Midway-McKittrick A" 22-30	Feb 1953	30 30S 22E	MD	10,867	Canoas	late Eo

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Northwest Area)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
569,699	1,970,496	1,050,294	1,760	113	42,367,268	135,213,547	4,227,066	1956	342	246	2,050

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

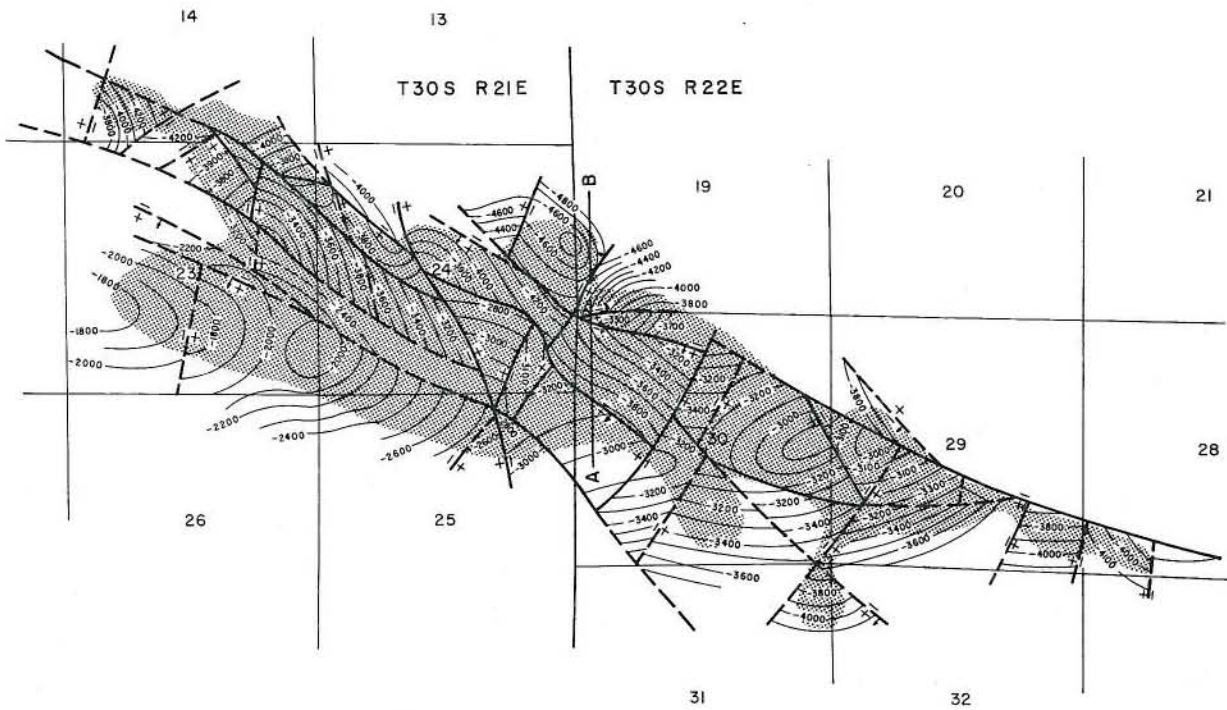
METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

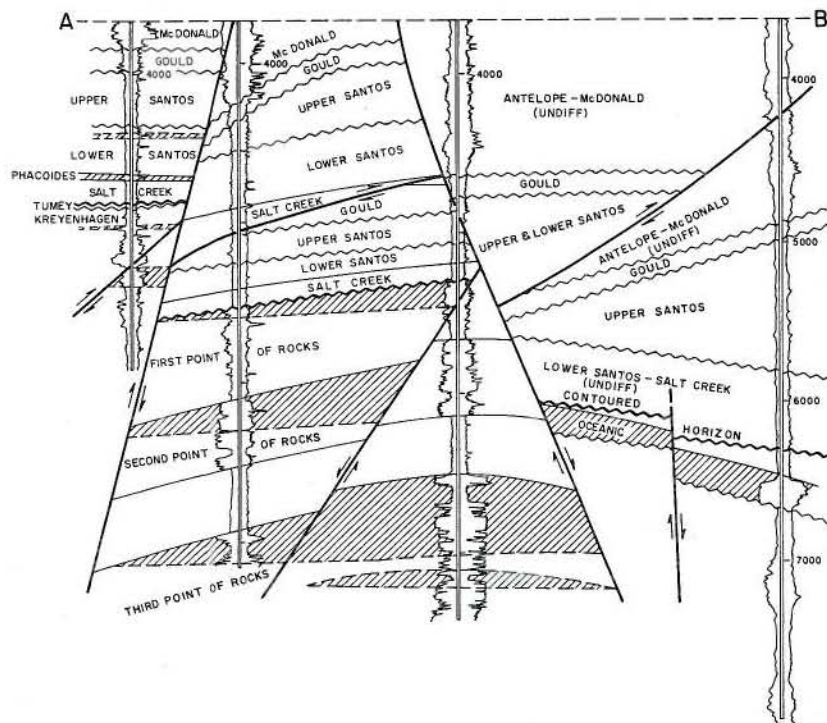
REFERENCES: See areas.



## Main Area



CONTOURS ON BASE OF MIOCENE



SERIES	MIOCENE		Eocene
FORMATION	MONTEREY	TEMBLOR	TUMEY
			KREYENHAGEN

# CALIFORNIA DIVISION OF OIL AND GAS

BELGIAN ANTICLINE OIL FIELD

MAIN AREA

Kern County

LOCATION: See index map of Belgian Anticline Oil Field

TYPE OF TRAP: Anticline with complex faulting

ELEVATION: 1,400 - 1,800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Phacoides	Texaco Inc. "Westpet Unit One" 26-29	The Texas Co. "Westpet Unit One" 26-29	29 30S 22E	MD	214	130	Sep 1947
Oceanic	Texaco Inc. "Westpet NCT One" 77-29	The Texas Co. "Westpet" 1	29 30S 22E	MD	140	2,230	Oct 1946
Point of Rocks	Texaco Inc. "Tulare NCT One" 28-28	The Texas Co. "Tulare NCT One" 28-28	28 30S 22E	MD	38	480	May 1947

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. "Midway-McKittrick A" 22-30	Pacific Western Oil Corp. "Midway-McKittrick A" 22-30	Feb 1953	30 30S 22E	MD	10,867	Canoas	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Phacoides	4,600	15	early Miocene	Temblor	37	775	IV
Oceanic	5,300	0 - 150	Oligocene	Tumey	35	680	IV
First Point of Rocks	5,400	300	late Eocene	Kreyenhagen	34	100 - 1,050	IV
Second Point of Rocks	6,100	400	late Eocene	Kreyenhagen	60	100 - 1,050	IV
Third Point of Rocks	6,700	300	late Eocene	Kreyenhagen	33	100 - 1,050	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
422,100	1,449,259	506,879	1,020	70	26,487,395	106,734,721	3,336,160	1953	188	137	1,200

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: Present only at extreme western end at about 1,200' in fractured shale.

CURRENT CASING PROGRAM: 11 3/4" cem. 500; 7" or 5 1/2" cem. through zone and across base of fresh waters.

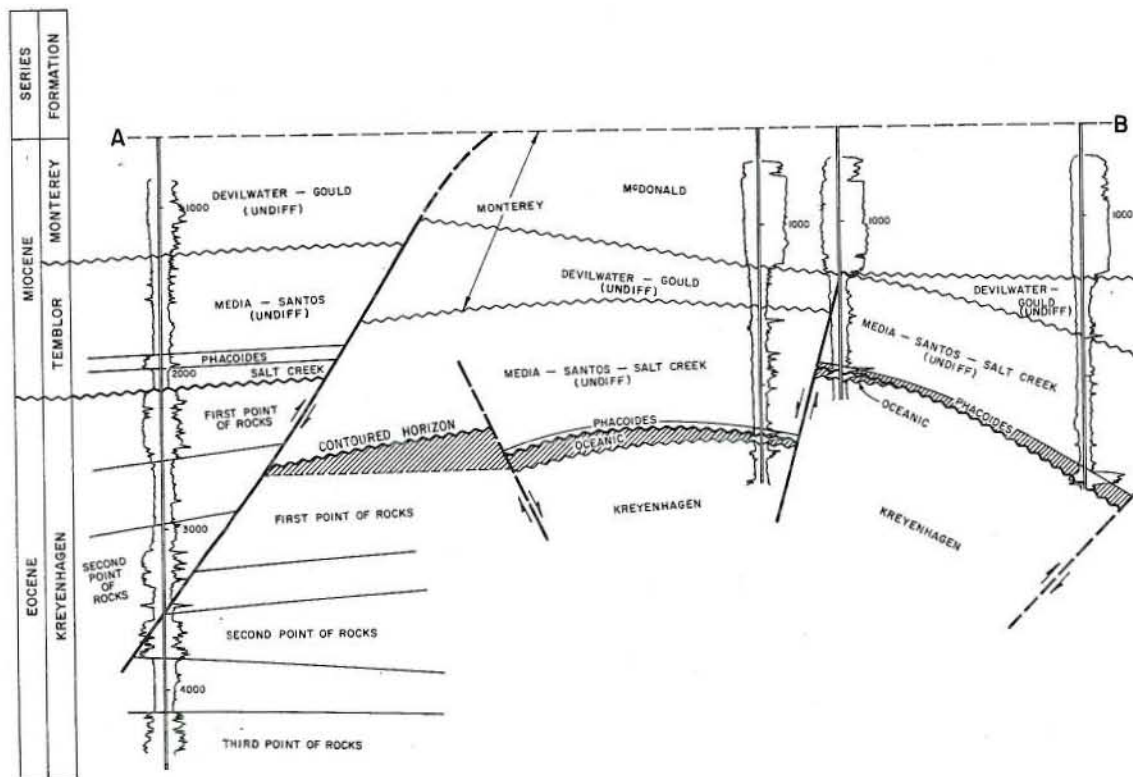
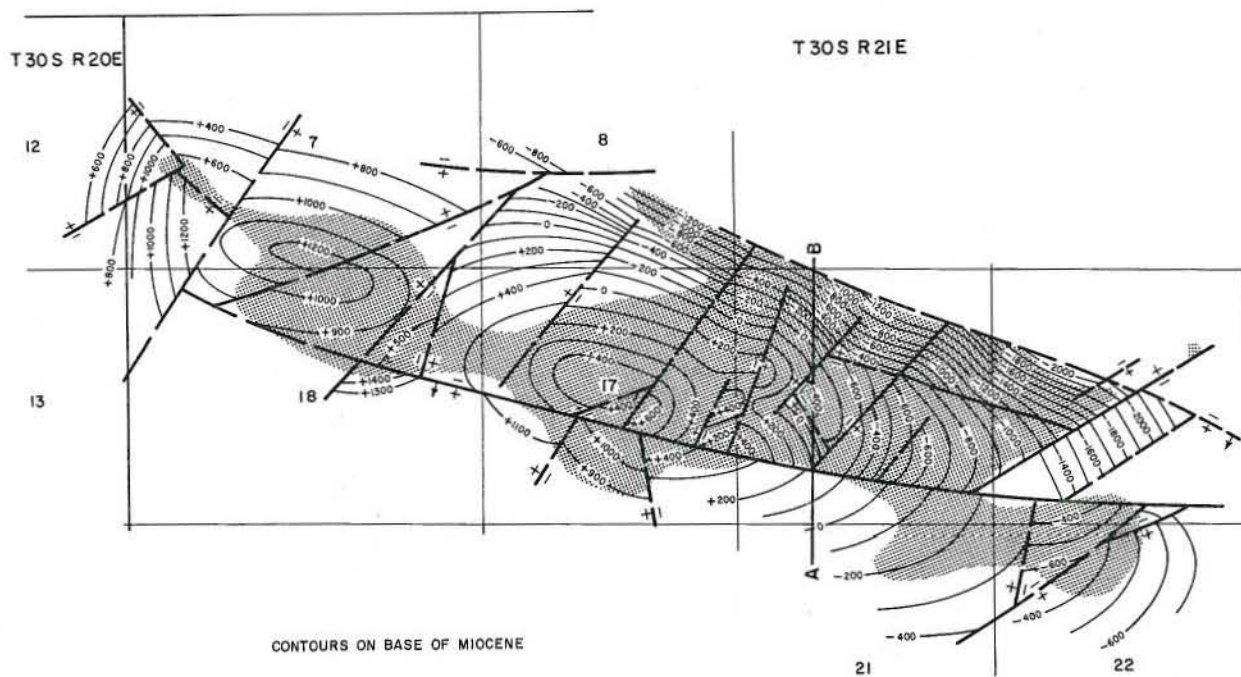
METHOD OF WASTE DISPOSAL: Unlined sumps.

REMARKS: A pilot water flood was started in 1965 and discontinued in 1967 after injecting 1,084,823 barrels of water into the Second Point of Rocks sand.

REFERENCES: Dunwoody, J.A., Belgian Anticline Oil Field, Southeast Portion: Pacific Sections AAPG-SEG-SEPM 1968 Guidebook, Geology and Oil Fields Westside Southern San Joaquin Valley, p. 80-81.  
Hewitt, R.L., and C.W. Porter, Belgian Anticline Field: AAPG-SEG-SEPM Guidebook Joint Ann. Mtg., Los Angeles, 1952, p. 239-240.  
Park, W.H., P.E. Land, and D.D. Bruce, Belgian Anticline Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).

# BELGIAN ANTICLINE OIL FIELD

## Northwest Area





# CALIFORNIA DIVISION OF OIL AND GAS

BELGIAN ANTICLINE OIL FIELD

NORTHWEST AREA

Kern County

LOCATION: See index map of Belgian Anticline Oil Field

TYPE OF TRAP: Anticline with complex faulting

ELEVATION: 1,750 - 2,800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Carneros	Quality Oil Corp. "Anderson" 1	Bender-Stansbury-Webb "Anderson" 1	15 30S 21E	MD	330	200	Oct 1951
Phacoides	Shell Oil Co. "Snow" 36-7	Union Oil Co. of Calif. "Hancock" 36-7	7 30S 21E	MD	--	4,450	Jan 1954
"Phacoides" - Oceanic	A.J. West, Operator "Anderson" 4	Moriqui Exploration Co. "Anderson" 4	15 30S 21E	MD	824	100	Mar 1953
Point of Rocks	The Superior Oil Co. "Forbes" 1	Same as present	21 30S 21E	MD	57	318	Feb 1955

Remarks: The "Phacoides" is a basal Miocene grit locally in contact with the Oceanic. In the discovery well the original completion was in the "Phacoides".

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "A-M Willow Springs" 46X-9	Same	Jan 1969	9 30S 21E	MD	8,742	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Carneros	4,600	12	early Miocene	Temblor	33	N.A.	III
Phacoides	1,400	55	early Miocene	Temblor	10 - 22	700	III
"Phacoides" - Oceanic	2,050	175	e Mio - Olig	Temblor - Tumey	38	1,000	III
First Point of Rocks	2,600	300	late Eocene	Kreyenhagen	32	1,070	IV
Second Point of Rocks	3,500	200	late Eocene	Kreyenhagen	43	1,070	IV
Third Point of Rocks	4,000	300	late Eocene	Kreyenhagen	29 - 39	1,070	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
147,599	521,237	543,415	740	43	15,879,873	28,478,826	1,785,566	1955	154	109	850

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 0 - 2,900

CURRENT CASING PROGRAM: 11 3/4" cem. 600; 7" cem. above zone and across base of fresh water sands; 5 1/2" liner landed through zone.

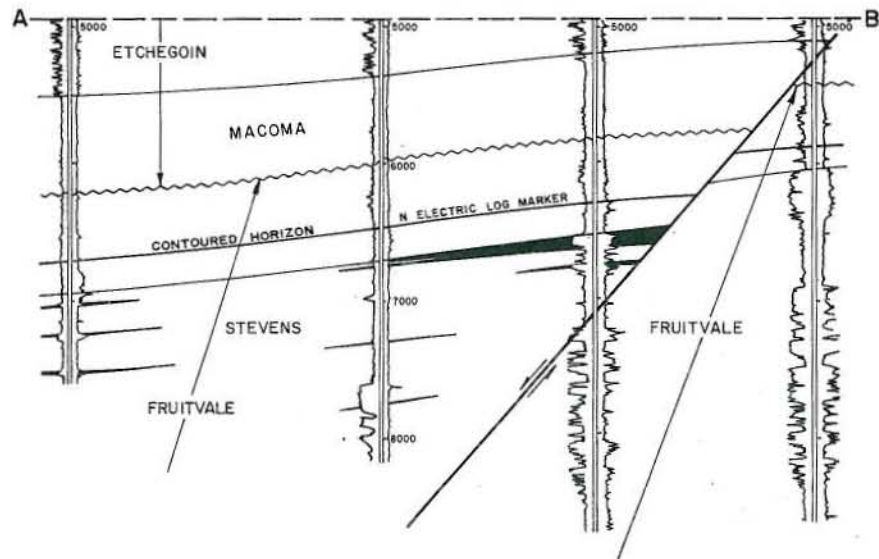
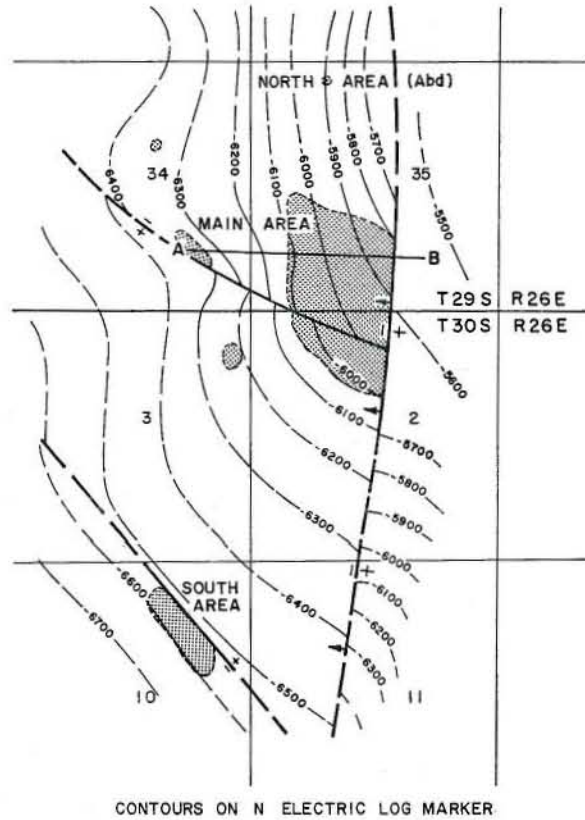
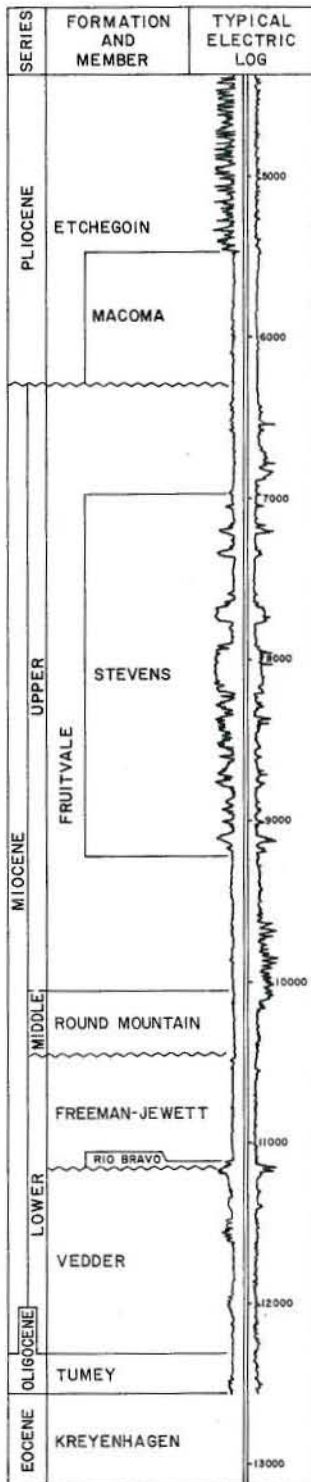
METHOD OF WASTE DISPOSAL: By discharge into drainage toward McKittrick Valley.

REMARKS: 1972 dry gas production is 453,623 Mcf from 12 producing wells. Cumulative production is 13,986,107 Mcf.

REFERENCES: Land, P.E., Johe Ranch and Maddux Ranch Gas Areas; Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 1 (1959).

Northwest Belgian Anticline: Pacific Sections AAPG-SEG-SEPM 1968 Guidebook, Geology and Oil Fields Westside Southern San Joaquin Valley, p. 78-79. Park, W.H., P.E. Land, & D.D. Bruce, Belgian Anticline Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).

# BELLEVUE OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

BELLEVUE OIL FIELD

Kern County

LOCATION: 8 miles west of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	The Superior Oil Company "Houghton" 36-35	Same as present	35 29S 26E	MD	1,900	2,850	May 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Company "K.C.L." 12	Same	Nov 1938	3 30S 26E	MD	13,131	Kreyenhagen	late Eo

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
67,009	171,633	237,418	180	11	4,280,910	4,020,888	328,881	1952	44	18	230

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: As of Jan. 1, 1973 unlined sumps are not allowed in Bellevue Oil Field.

REFERENCES: See areas.

# CALIFORNIA DIVISION OF OIL AND GAS

BELLEVUE OIL FIELD

MAIN AREA

Kern County

LOCATION: See map sheet of Bellevue Oil Field

TYPE OF TRAP: Faulted homocline and permeability barriers

ELEVATION: 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	The Superior Oil Company "Houghton" 36-35	Same as present	35 29S 26E	MD	1,900	2,850	May 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Company "K.C.L." 12	Same	Nov 1938	3 30S 26E	MD	13,131	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	6,400 to 8,700	thin stringers to 100'	late Miocene	Fruitvale	35	1,950	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
63,210	144,318	237,303	170	10	4,183,090	3,820,105	328,881	1952	34	15	210

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,600 in westernmost portion and 3,200 in northeastern portion.

CURRENT CASING PROGRAM: 9 5/8" cem. 750; 5 1/2" cem. through zone and across base of fresh water sands.

METHOD OF WASTE DISPOSAL: Waste water is disposed of by injection into the Etchegoin below the base of fresh-water sands.

REMARKS:

REFERENCES: Sullivan, J.C., Bellevue Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 1 (1959).

# CALIFORNIA DIVISION OF OIL AND GAS

NORTH AREA (Abandoned)

BELLEVUE OIL FIELD

Kern County

LOCATION: See map sheet of Bellevue Oil Field

TYPE OF TRAP: Permeability variation on a regional homocline

ELEVATION: 375

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Humble Oil & Rfg. Co. "Homer A. Sledge et al" 1	Atlantic Oil Co. "Atlantic-Humble-Sledge et al" 1	35 29S 26E	MD	180	N.A.	Sep 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Humble Oil & Rfg. Co. "Homer A. Sledge et al" 2	Same	Nov 1959	35 29S 26E	MD	7,400	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	6,720	35	late Miocene	Fruitvale	33	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	22,173	13,109	16,370	1959	4	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,370

CURRENT CASING PROGRAM: 9 5/8" cem. 700; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Area abandoned Dec. 1960.

REFERENCES: Sullivan, J.C., Bellevue Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 1 (1959).

# CALIFORNIA DIVISION OF OIL AND GAS

BELLEVUE OIL FIELD

SOUTH AREA

Kern County

LOCATION: See map sheet of Bellevue Oil Field

TYPE OF TRAP: Faulted homocline and restricted lateral permeability

ELEVATION: 355

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Standard Oil Co. of Calif. "K.C.L. 61" 52X-10	Same as present	10 30S 26E	MD	161	1,250	Apr 1965

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "K.C.L. 61" 52X-10	Same	Mar 1965	10 30S 26E	MD	10,082	Fruitvale	Miocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	7,400	25	late Miocene	Fruitvale	36	1,670	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,799	27,315	115	10	1	75,647	187,674	26,069	1965	6	2	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection • Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,900

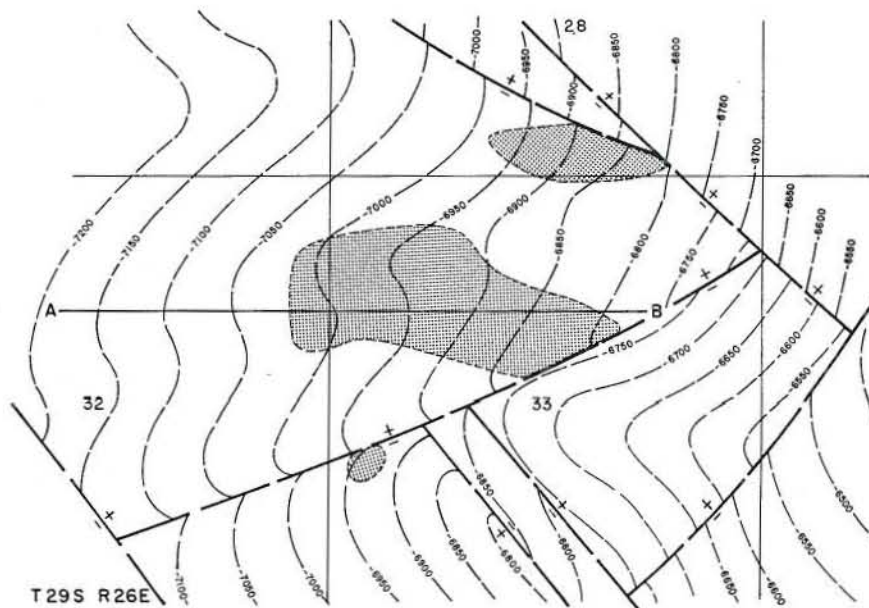
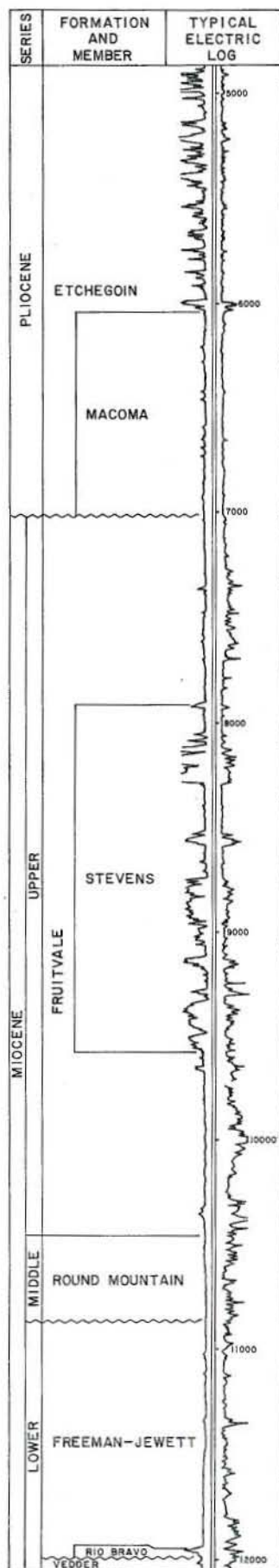
CURRENT CASING PROGRAM: 10 3/4" cem. 750; 5 1/2" cem. through zone and across base of fresh water sands.

METHOD OF WASTE DISPOSAL:

REMARKS:

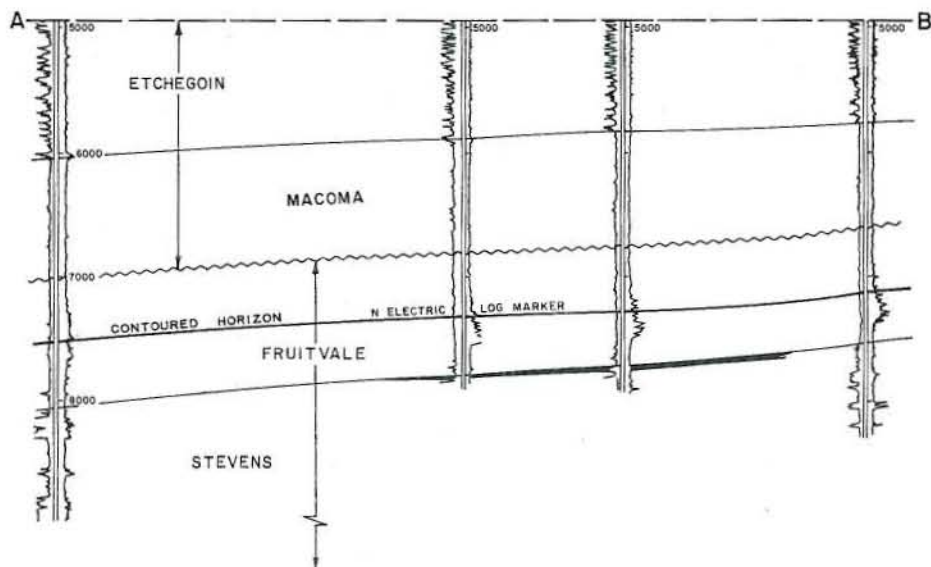
REFERENCES:

# WEST BELLEVUE OIL FIELD



CONTOURS ON N ELECTRIC LOG MARKER

SCALE: 1" = 2350 FT





## CALIFORNIA DIVISION OF OIL AND GAS

BELLEVUE, WEST, OIL FIELD

Kern County

LOCATION: 10 miles west of Bakersfield

TYPE OF TRAP: Lithofacies changes on a faulted homocline

ELEVATION: 340

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
U Stevens - Clark	The Superior Oil Co. "Wesco-Clark" 44-33	Same as present	33 29S 26E	MD	96	115	Feb 1957
U Stevens - 82	Ancora Verde Corp. 82-32	The Superior Oil Co. No. 82-32	32 29S 26E	MD	138	64	Dec 1957
Lower Stevens	G.E. Kadane & Sons "Rudnick" 1	Occidental Petroleum Corp. "Rudnick" 1	28 29S 26E	MD	108	N.A.	Mar 1969

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "Wesco-Clark" 44-33	Same	Dec 1956	33 29S 26E	MD	9,675	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
U Stevens - Clark	7,740	20	late Miocene	Fruitvale	35	1,460	III
U Stevens - 82	7,830	5	late Miocene	Fruitvale	28	N.A.	III
Lower Stevens	8,750 - 9,100	35	late Miocene	Fruitvale	32	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
40,348	16,841	470,708	125	6	3,160,214	1,920,209	402,093	1959	26	12	165

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,400









CURRENT CASING PROGRAM: 9 5/8" cem. 800; 5 1/2" cem. through zone and across base of fresh water sands.

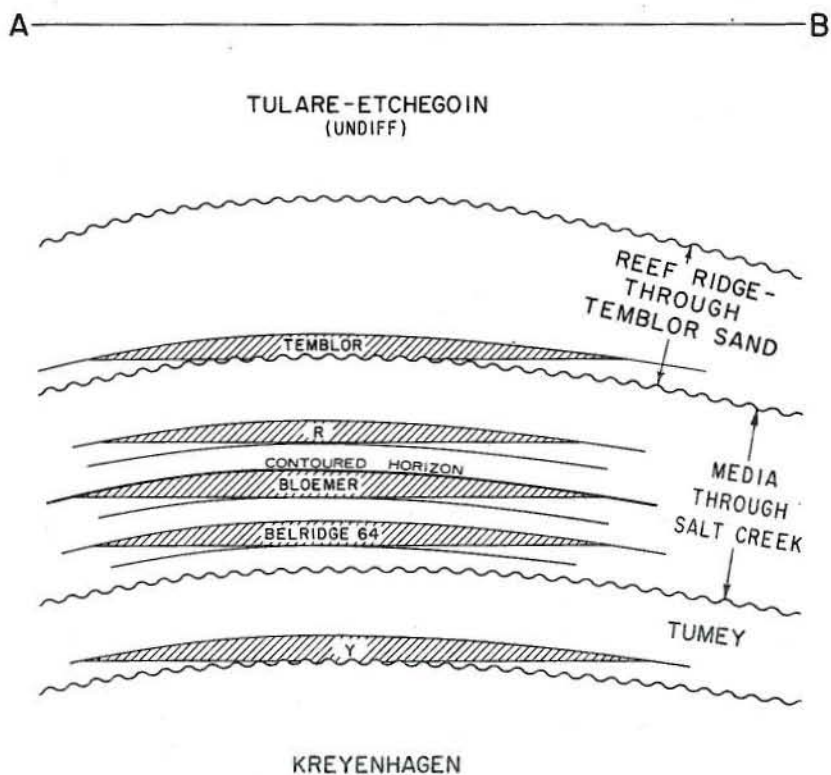
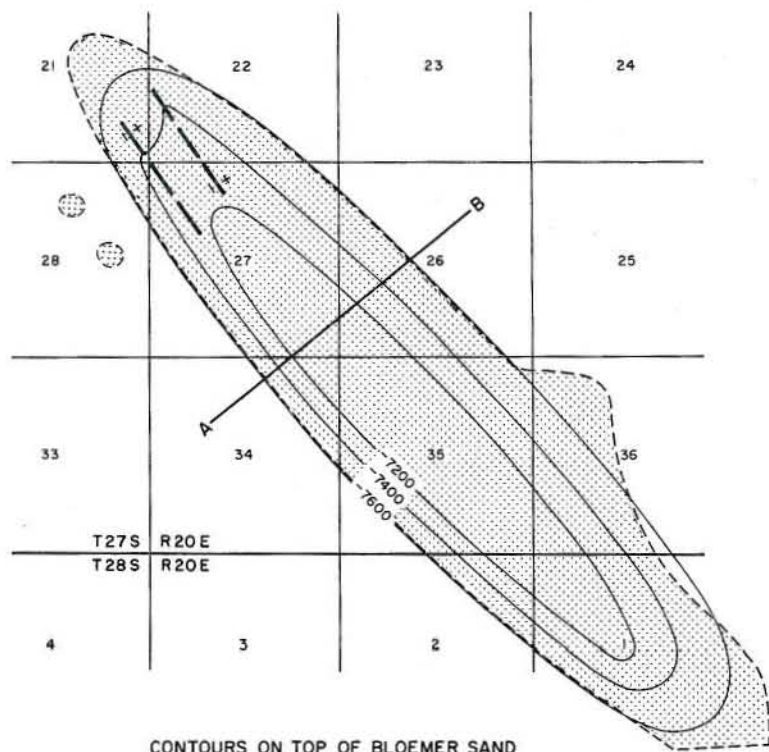
METHOD OF WASTE DISPOSAL: All waste water is disposed of by injection into the Etchegoin below base of fresh water sands.

REMARKS: Stevens sands are undifferentiated for statistical purposes.

REFERENCES: Sullivan, J.C., West Bellevue Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1 (1958).

# NORTH BELRIDGE OIL FIELD

SERIES AND STAGE	FORMATION MEMBER & ZONE				TYPICAL ELECTRIC LOG	
HOLOCENE	ALLUVIUM					
PLEISTOCENE	TULARE					
PLIOCENE	ETCHEGOIN					
MIOCENE	UPPER	DELMONTIAN	REEF RIDGE			
			ANTELOPE			
			McDONALD			
		MIDDLE	MOHNIAN			
				DEVILWATER		
				GOULD		
	LOWER	RELIZIAN	TEMBLOR SAND			
			MEDIA			
			CARNEROS			
		ZEMORRIAN	SAUCESIAN	UPPER SANTOS		
				R (AGUA)		
				LOWER SANTOS		
				BLOEMER		
				BELRIDGE 64 (PHACOIDES)		
				GIBSON		
				SALT CREEK		
	OLIGOCENE	TUMEY				
	Y (OCEANIC)					
EOCENE	KREYENHAGEN					



# CALIFORNIA DIVISION OF OIL AND GAS

BELBRIDGE, NORTH, OIL FIELD

Kern County

LOCATION: 34 miles northwest of Taft

TYPE OF TRAP: Anticline

ELEVATION: 650

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare-Etchegoin	Union Oil Co. of Calif. "Gibson" 1	Same as present	36 27S 20E	MD	10	N.A.	Sep 1917
Fractured Shale	Belridge Oil Co. "M.M." 1	Mannell-Minor Petroleum Co. "M.M." 1	35 27S 20E	MD	*	N.A.	1912
Temblor	Belridge Oil Co. No. 15	Same as present	26 27S 20E	MD	3,014	50,000	Oct 1930
Carneros	Belridge Oil Co. No. 26-27	Same as present	27 27S 20E	MD	668	2,160	Jun 1966
R Sand (Agua)	Belridge Oil Co. Opr. No. 1	Tide Water Associated Oil Co. No. 1	21 27S 20E	MD	--	N.A.	Sep 1939
Bloemer &	Belridge Oil Co. Opr. No. 64-27	Belridge Oil Co. No. 64-27	27 27S 20E	MD	1,173	75,000	Jun 1932
Belridge 64							
Y Sand	Belridge Oil Co. No. 47-27	Same as present	27 27S 20E	MD	1,068	789	May 1942

Remarks: \* Not known, first recorded production was 18 barrels of oil per day in December 1915.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Belridge Oil Co. Opr. No. 55-26	Belridge Oil Co. No. 55-26	Mar 1941	26 27S 20E	MD	10,800	Kreyenhagen	1t Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age *	Formation			
Tulare-Etchegoin	600	100	Pleis - Plio	Tulare-Etchegoin	13	1,200	None
Fractured Shale	3,500	400	1t Miocene	Monterey	10 - 32	2,190	II
Temblor	5,000	500	m Miocene	Temblor	40	2,350	IV
Carneros	6,700	80	e Miocene	Temblor	39	N.A.	IV
R Sand (Agua)	7,100	150	e Miocene	Temblor	52	N.A.	IV
Bloemer	7,500	80	e Miocene	Temblor	30 - 50	1,240	IV
Belridge 64	7,700	400	e Miocene	Temblor	30 - 50	1,170	IV
Y Sand	8,550	75	Oligocene	Tunney	32	490	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
345,963	1,296,895	1,379,467	2,060	84	68,869,284	524,624,812	5,664,371	1937	272	237	2,070

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic steam	1964	347,844	29
Gas injection for pressure maintenance	1938	450,710,619	10

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: Shallow: 7" cem. above zone; 5 1/2" liner landed through zone. Temblor-Oceanic: 11 3/4" cem. 1,000; 7" cem. above zone; 5 1/2" liner landed through zone.

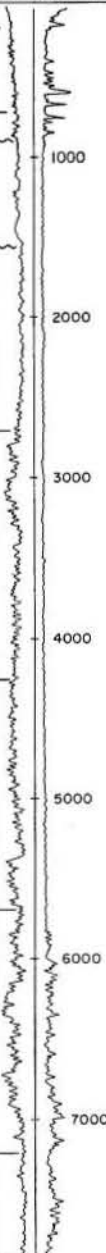
METHOD OF WASTE DISPOSAL: Evaporation and percolation from unlined sumps.

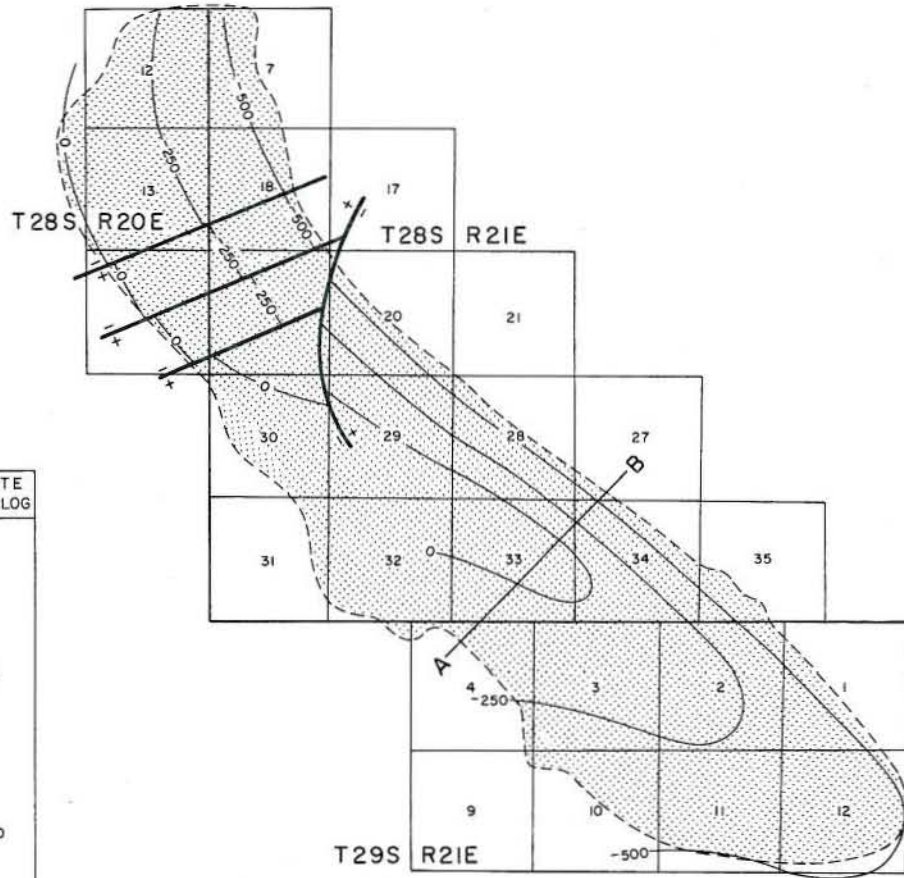
REMARKS: A water flood was started in 1955 in Belridge 64 zone and discontinued in 1959. Cumulative injection totals 402,557 bbls. In the production statistics by pools: Tulare-Etchegoin and Fractured Shale zones are combined as the Shallow pool; Bloemer zone is combined with the Belridge 64 pool; Carneros zone is combined with the R Sand pool.

REFERENCES: Bailey, W.C., North Belridge Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 24, No. 3 (1939). Boezinger, H., The Minor Oil Fields of Kern County, Part 2, Belridge and North Belridge Oil Fields: Calif. State Mining Bureau, Summary of Operations--Calif. Oil Fields, Vol. 10, No. 1 (July 1924). North Belridge Oil Field, AAPG-SEG-SEPM Guidebook, Geology and Oil Fields, West Side Southern San Joaquin Valley (1968) p. 60-61. Preston, H.M., Report on North Belridge Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 18, No. 1 (1932). Wharton, J.B., Belridge Oil Field: Calif. Div. of Mines, Bull. 118 (1943). Williams, R.N., Jr., Recent Developments in the North Belridge Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 21, No. 4 (1936).

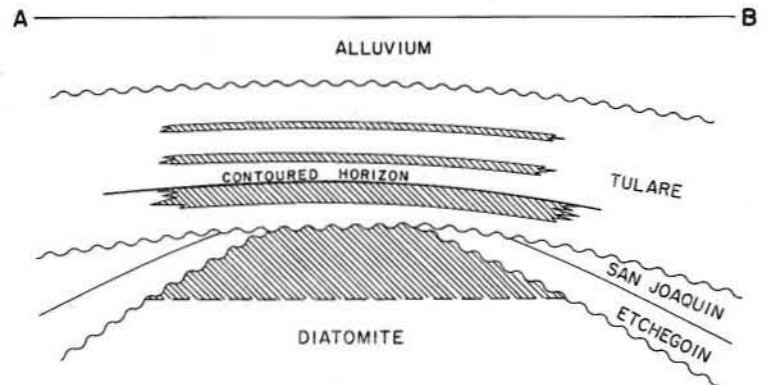


# SOUTH BELBRIDGE OIL FIELD

SERIES	FORMATION & MEMBER		COMPOSITE ELECTRIC LOG	
HOLOCENE	ALLUVIUM			
PLEISTOCENE	TULARE	UPPER		
		LOWER		
PLIOCENE	ETCHEGOIN			
MIOCENE	UPPER MONTEREY	BELRIDGE DIATOMITE		2000
		REEF RIDGE		3000
		ANTELOPE		5000
		MCDONALD		6000
		DEVILWATER		7000
	MIDDLE	GOULD		8000



CONTOURS ON TOP OF LOWER TULARE



# CALIFORNIA DIVISION OF OIL AND GAS

BELRIDGE, SOUTH, OIL FIELD

Kern County

LOCATION: 27 miles northwest of Taft

TYPE OF TRAP: Anticline with minor faulting; permeability variations on a homocline

ELEVATION: 600

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare	Belridge Oil Co. No. 101	Same as present	33 28S 21E	MD	100	N.A.	Apr 1911
Etchegoin	K & K Oil Co. "Hopkins Fee II" 21	Union Oil Co. "Hopkins" 21-10	10 29S 21E	MD	171	N.A.	Mar 1943
Belridge Diatomite	Belridge Oil Co. No. 101	Same as present	33 28S 21E	MD	100	N.A.	Apr 1911
Fractured Shale	Belridge Oil Co. No. 196	Same as present	34 28S 21E	MD	18	N.A.	Mar 1914

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Belridge Oil Co. No. 62W-33	Same	Nov 1945	33 28S 21E	MD	14,104	Oceanic	Oligocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tulare	400	400	Pleistocene	Tulare	14	250 - 1,000	None
Etchegoin	1,500	50	Pliocene	Etchegoin	13	1,450	None
Belridge Diatomite	1,100	100	1t Miocene	Monterey	25	1,520	None
Fractured Shale	2,100	900	1t Miocene	Monterey	28 - 32	1,440	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
8,684,131	141,127	49,098,489	8,850	2,290	179,354,525	19,617,092	9,208,919	1971	3,829	3,632	8,900

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Air injection for fire flood	1964	N.A.	9
Cyclic-steam	1964	24,191,262	1,131
Steam flood	1963	65,270,581	180

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

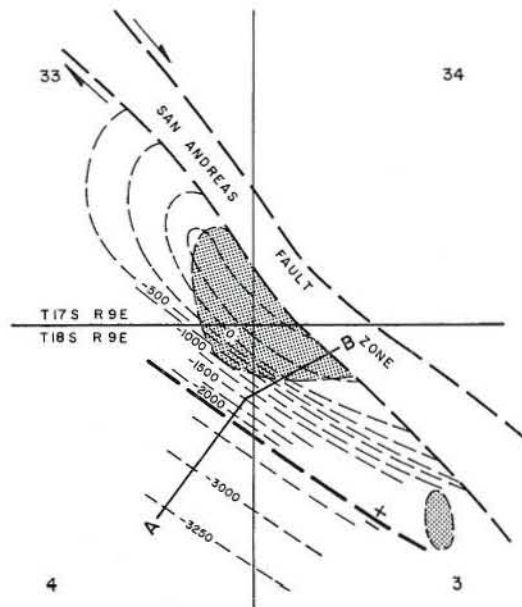
METHOD OF WASTE DISPOSAL: Evaporation and percolation from unlined sumps into the Tulare formation. Also, 13,590,988 bbl. were injected during 1972 into 5 water disposal wells.

REMARKS: In March 1956 air injection began in an experimental thermal recovery project. This project was terminated in November 1957.

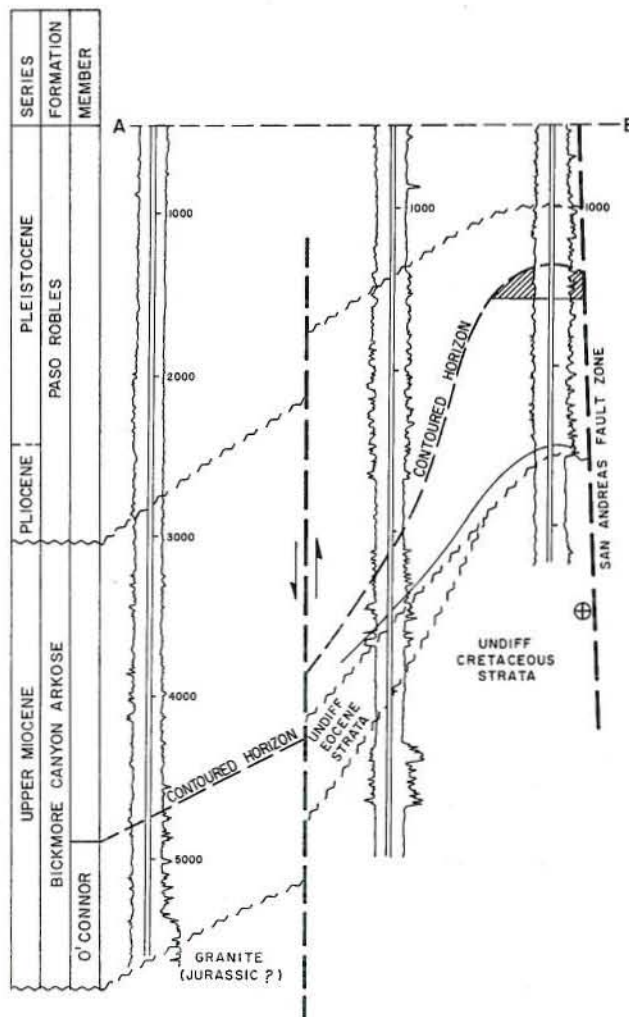
REFERENCES: Barger, R.M., South Belridge Thermal Recovery Experiment: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).  
McCabe, R.E., The Minor Oil Fields of Kern County: Calif. State Mining Bureau, Summary of Operations--Calif. Oil Fields, Vol. 10, No. 1 (1924).  
Ritzius, D.E., South Belridge Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 36, No. 1 (1950).



# BITTERWATER OIL FIELD



CONTOURS ON TOP OF O'CONNOR  
SCALE 1" = 2250'



## CALIFORNIA DIVISION OF OIL AND GAS

BITTERWATER OIL FIELD

San Benito County

LOCATION: 15 miles northeast of King City

TYPE OF TRAP: Complex fault traps in San Andreas fault zone

ELEVATION: 1,700

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
O'Connor	P.M. Scrivner "O'Connor" 1	W.W. Holmes, Opr. "O'Connor" 1	33 17S 9E	MD	52	N.A.	May 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Bitterwater Development Co. "Wilrich-Rudolph" 1	Wilrich Development Co. "Wilrich-Rudolph" 1	Jan 1956	4 18S 9E	MD	5,667	Granite	Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
O'Connor	1,400	450	late Miocene	Bickmore Canyon Arkose	26	950	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
5,122	0	414	70	6	206,100	0	24,795	1953	23	12	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 130

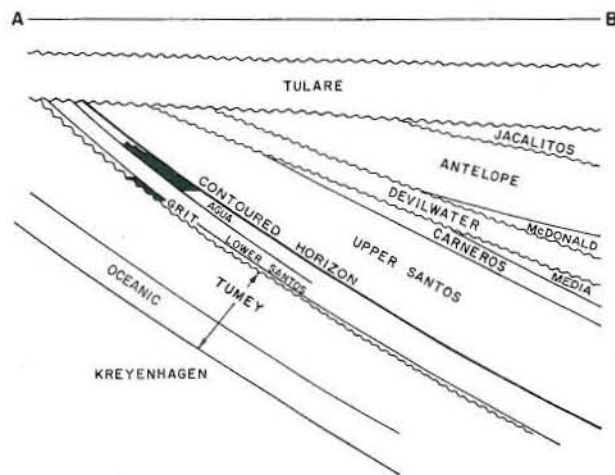
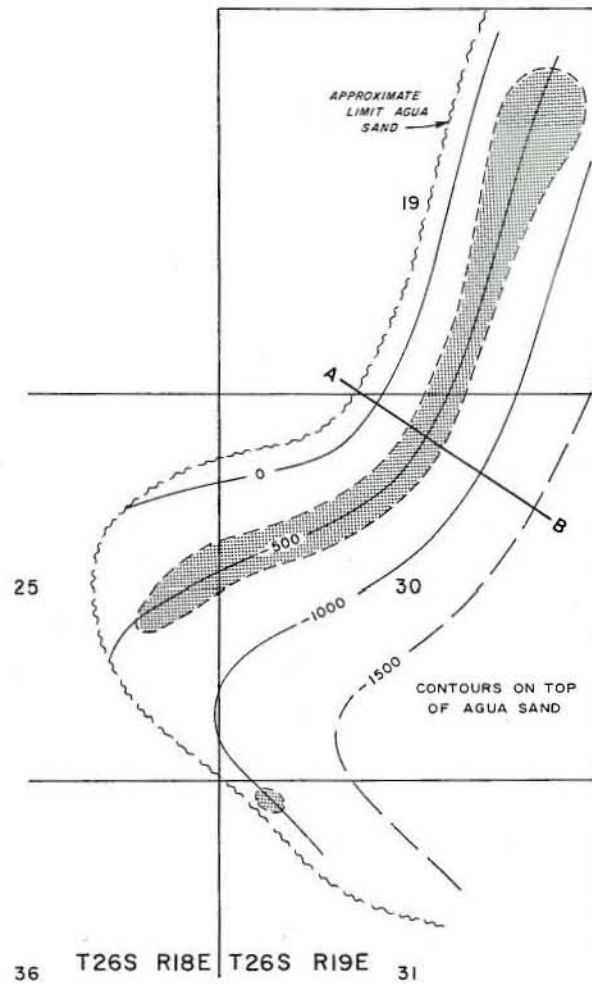
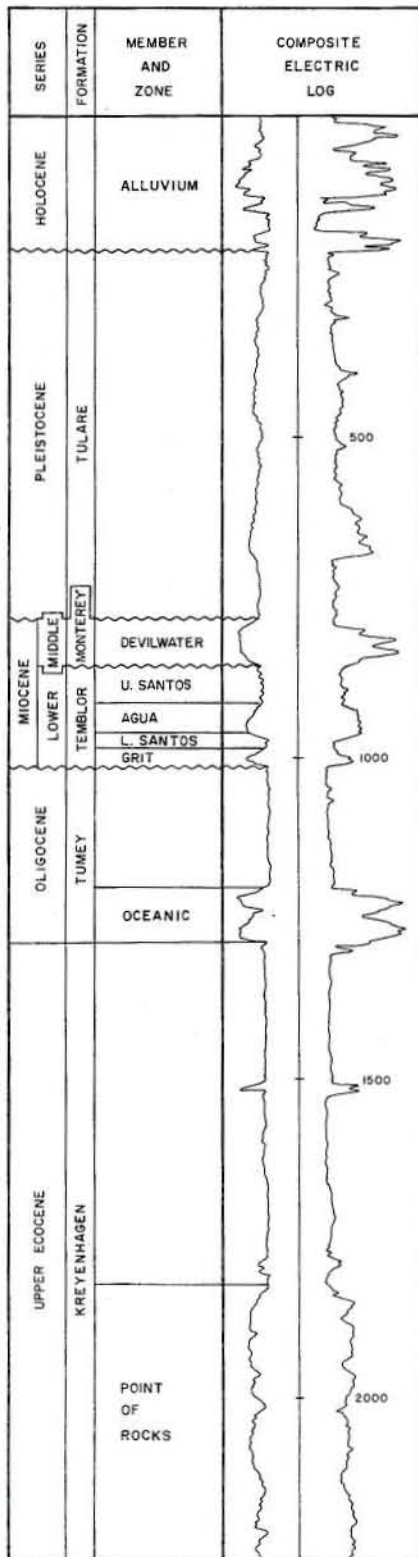
CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water averages one barrel per day and is disposed of by percolation and evaporation.

REMARKS:

REFERENCES: Gribi, E.A. Jr., Bitterwater Oil Field: Guidebook to Geology of the Salinas Valley and San Andreas Fault, A.A.P.G. - S.E.P.M. Annual Field Trip, p. 74-75 (1963).

# BLACKWELLS CORNER OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

BLACKWELLS CORNER OIL FIELD

Kern County

LOCATION: 45 miles northwest of Taft

TYPE OF TRAP: Permeability barrier on an anticlinal nose

ELEVATION: 700

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Devilwater	General Crude Oil Co. Oper. "Occidental" 10	Etienne Lang "Occidental" 10-N.W. 30	30 26S 19E	MD	20	N.A.	Jun 1944
Agua	General Crude Oil Co. Oper. "Occidental" 3	Etienne Lang "Occidental" 3-N.W. 30	30 26S 19E	MD	50	N.A.	Dec 1943
Grit	General Crude Oil Co. Oper. "Occidental" 5	Etienne Lang "Occidental" 5-N.W. 30	30 26S 19E	MD	30	N.A.	Aug 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "O.L.C." 7	Same	Jul 1954	30 26S 19E	MD	3,224	Tuney	Oligocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Devilwater	700	25	middle Miocene	Temblor	13	N.A.	None
Agua	1,300	85	early Miocene	Temblor	14	790	None
Grit	1,400	5	early Miocene	Temblor	14	790	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
15,659	0	111,178	240	18	813,907	90,521	81,106	1946	63	38	250

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

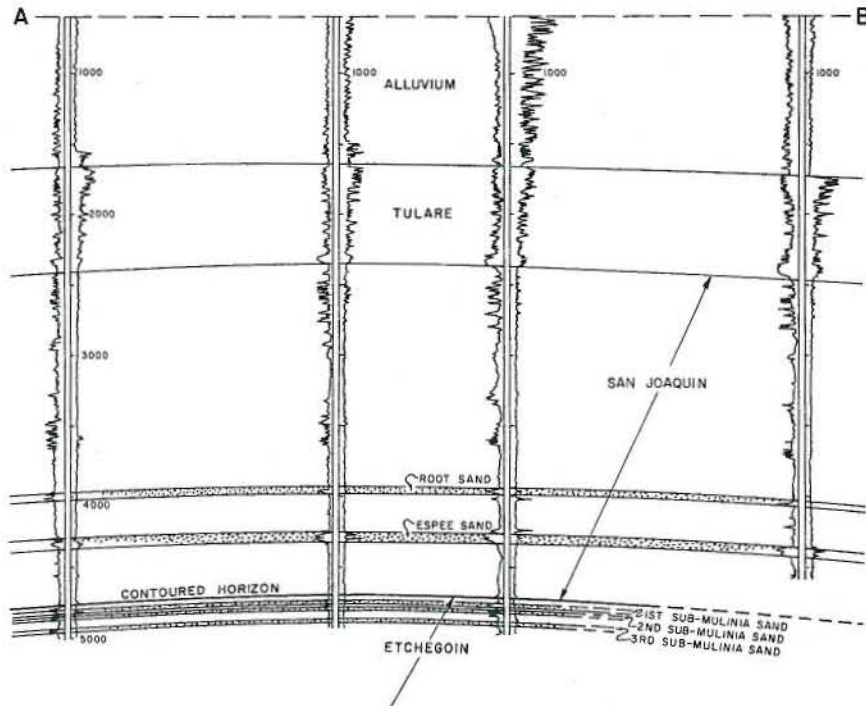
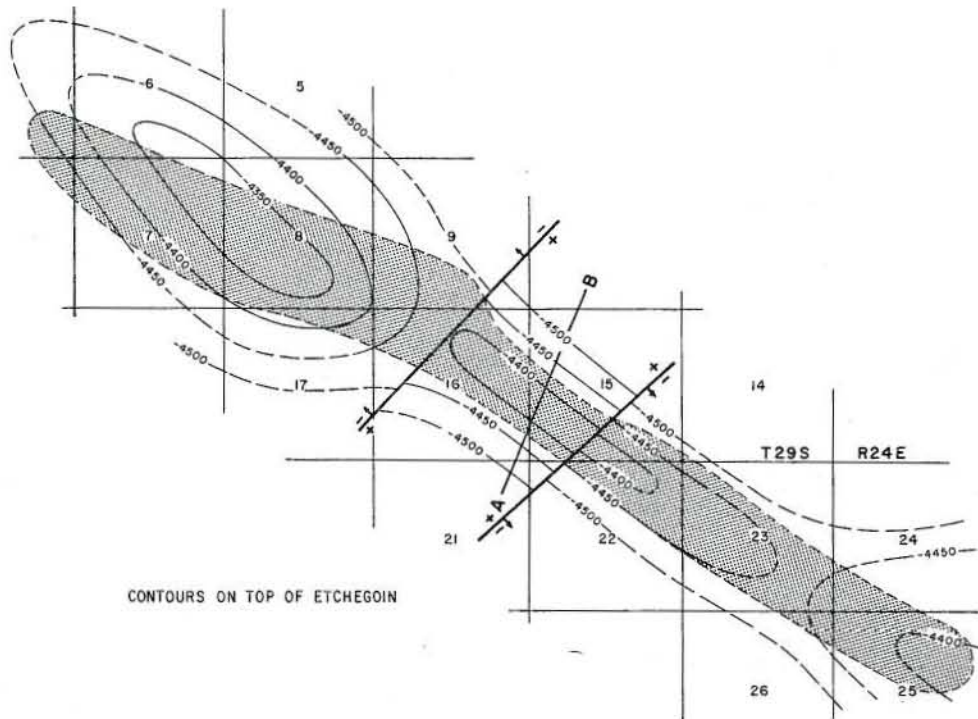
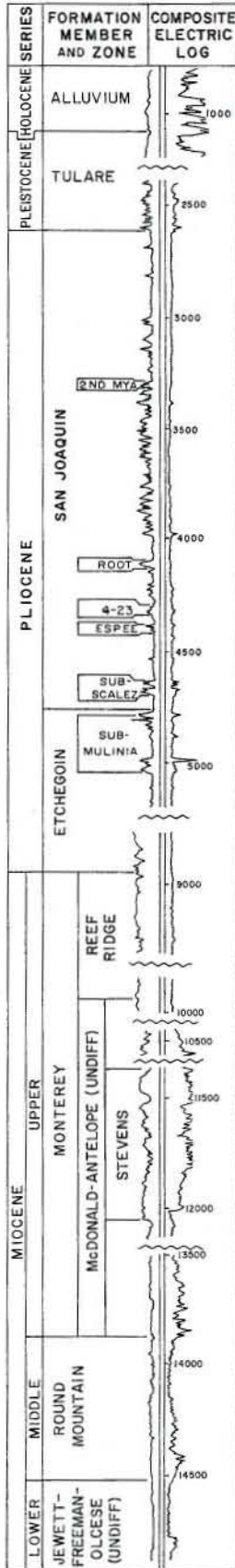
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: Formerly known as Shale Hills Area.

REFERENCES: Karmelich, F.J., Blackwells Corner Oil Field; Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 37, No. 2 (1951).



# BOWERBANK OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

BOWERBANK OIL FIELD

Kern County

LOCATION: 20 miles west of Bakersfield

TYPE OF TRAP: Anticline; lithofacies variations

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
2nd Mya (gas)	Texaco Inc. "Brandt" 1	Same as present	8 29S 24E	MD	0	250	Feb 1961
Root (gas)	Texaco Inc. "H.J. Brandt Fee" 1	Same as present	8 29S 24E	MD	0	2,000	Jun 1965
4-23 (gas)	Texaco Inc. "Bowerbank" 4-23	Union Oil Co. "Bowerbank" 4-23	23 29S 24E	MD	0	850	Nov 1958
Espee (gas)	Texaco Inc. "Bowerbank V" 47-15	The Texas Co. "S.P." 47-15	15 29S 24E	MD	0	11,605	Jan 1942
Sub Scalez (gas)	Texaco Inc. "Bowerbank" 4-23	Union Oil Co. "Bowerbank" 4-23	23 29S 24E	MD	0	932	Feb 1942
Sub Mulinia (gas)	Same as above	Same as above	23 29S 24E	MD	0		Feb 1942
Stevens (oil)	Occidental Petroleum Corp. "KCL" 1-23	Same as present	23 29S 24E	MD	60	357	Jul 1965

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Root" 1	Same	Feb 1966	9 29S 24E	MD	15,396	Freeman-Jewett	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
2nd Mya (gas)	3,140	4	Pliocene	San Joaquin	1,020	1,800	III
Root (gas)	4,000	4	Pliocene	San Joaquin	1,020	1,800	III
4-23 (gas)	4,200	20	Pliocene	San Joaquin	1,020	1,800	III
Espee (gas)	4,300	10	Pliocene	San Joaquin	1,020	1,800	III
Sub Scalez (gas)	4,600	22	Pliocene	San Joaquin	1,020	1,800	III
Sub Mulinia (gas)	4,700	5	Pliocene	Etchegoin	1,020	1,800	III
Stevens (oil)	10,620	165	late Miocene	Monterey	32	1,500	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas zones only - see Remarks for oil zone production data)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	155,157	224	80	3	0	13,707,379	862,308	1944	51	25	1,480

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,700

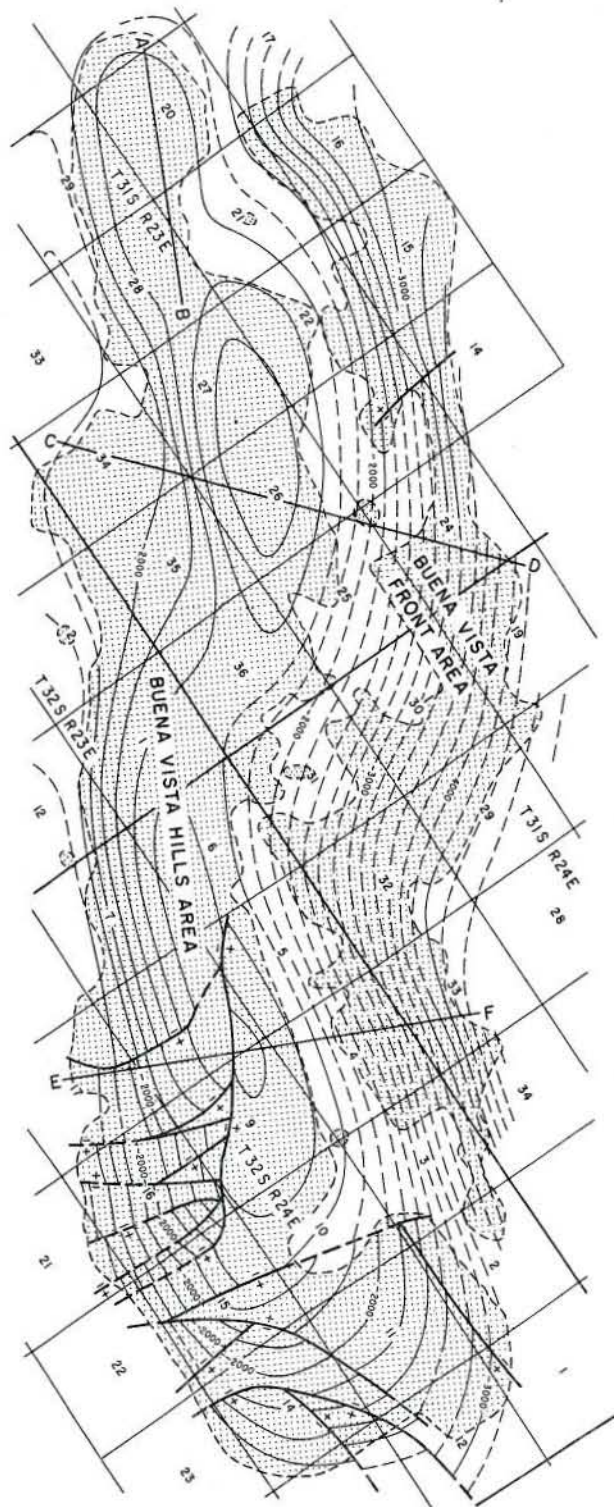
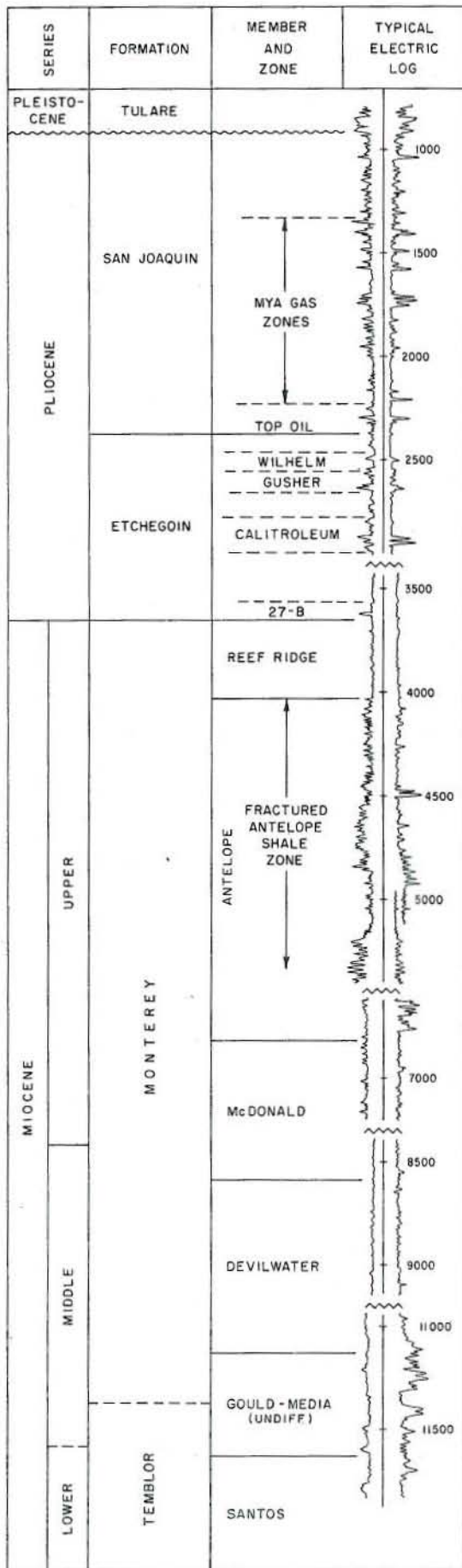
CURRENT CASING PROGRAM: Pliocene: 9 5/8" cem. 500; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Formerly known as Bowerbank Gas Field. The only well completed in the Stevens oil pool was abandoned in 1966. Cumulative production totaled 5,472 bbls. of oil and 2,050 Mcf of gas.

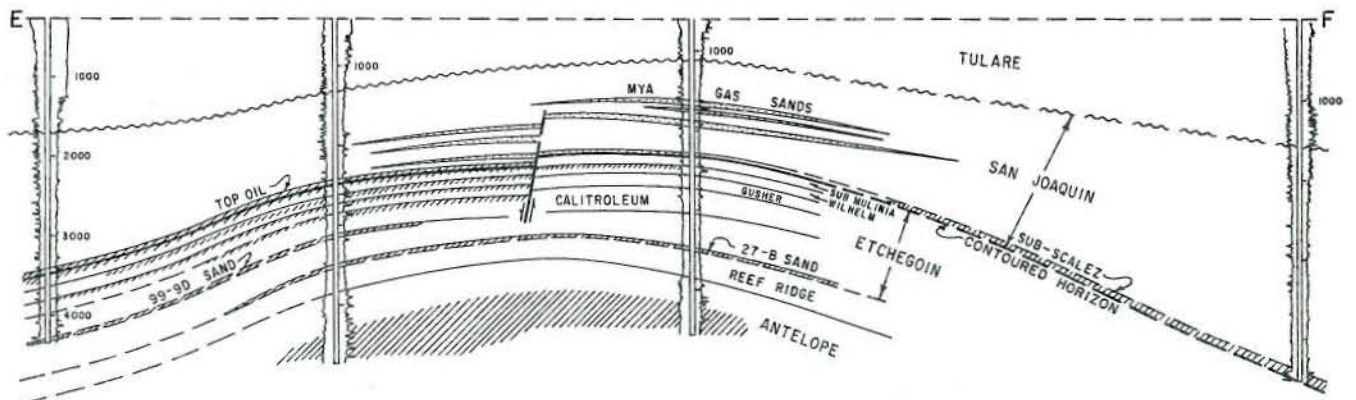
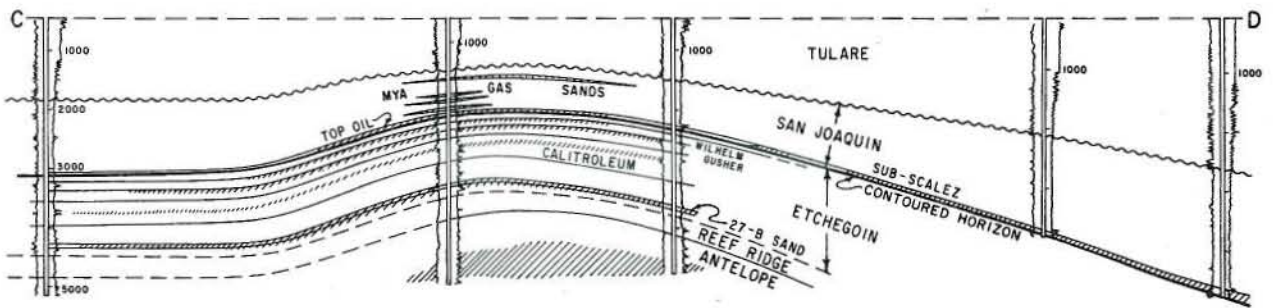
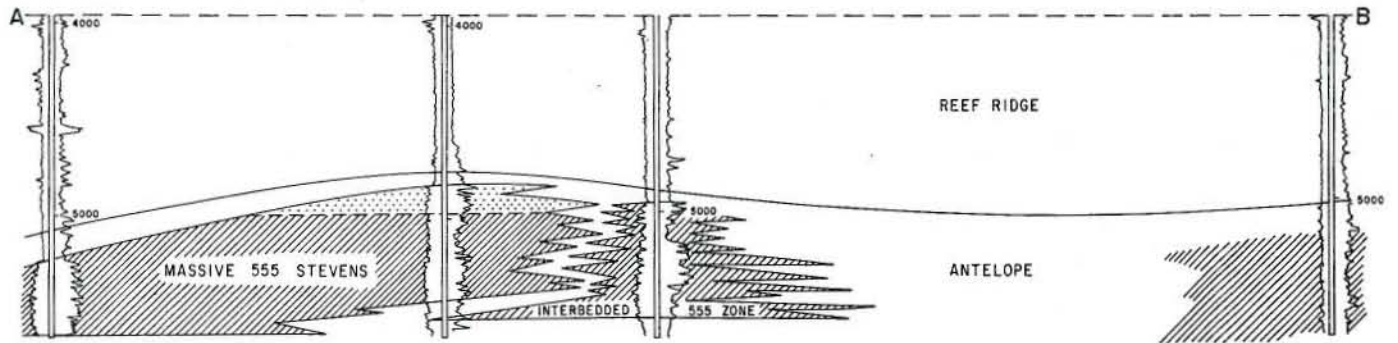
REFERENCES: Crowder, R.E., Bowerbank Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 1 (1955).

# BUENA VISTA OIL FIELD



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# BUENA VISTA OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

BUENA VISTA OIL FIELD

Kern County

LOCATION: 3 miles northeast of Taft

TYPE OF TRAP: See areas

ELEVATION: 470 - 1,300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Top Oil	Getty Oil Co. No. 1	Honolulu Consolidated Oil Co. No. 1	10 32S 24E	MD	125	N.A.	Feb 1910

Remarks: The discovery well blew out after penetrating a sand in the Mya zone, and an estimated 900,000 Mcf of gas was blown (escaped) to the atmosphere before drilling was resumed.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. No. 25-P	Honolulu Oil Corp. No. 25-P	1940	10 32S 24E	MD	14,622	Santos	early Mio.

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Buena Vista Hills Area)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,745,202	12,940,122	13,317,174	15,000	1,135	606,851,368	871,912,404	19,254,174	1925	2,760	2,568	16,810

## STIMULATION DATA (Jan. 1, 1973) (See Areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: From the time of discovery until January 1, 1958, production from the Buena Vista oil field was included as part of the Midway-Sunset oil field.

REFERENCES: Borkovich, G.J., Buena Vista Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).  
Howard, P.J., Report on Buena Vista Hills, a Portion of the Midway-Sunset Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 20, No. 4 (1935).

# CALIFORNIA DIVISION OF OIL AND GAS

BUENA VISTA OIL FIELD

BUENA VISTA FRONT AREA

Kern County

LOCATION: See map sheet of Buena Vista Oil Field

TYPE OF TRAP: Permeability variations on the flank of an anticline

ELEVATION: 470 - 1,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Above Scaletz (AS)	Mobil Oil Corp. "Boston" 1-C	Boston Pacific Oil Co. 1-C	32 31S 24E	MD	3,000	N.A.	Jun 1912
Sub Scaletz one (SS1)	Same as above	Same as above	32 31S 24E	MD	N.A.	N.A.	Jun 1912
Sub Scaletz two (SS2)	Same as above	Same as above	32 31S 24E	MD	N.A.	N.A.	Jun 1912
Mulinia	Operator name and well number unknown	Same as present	N.A.	MD	N.A.	N.A.	N.A.

Remarks: Production from the Above Scaletz, Sub Scaletz one, and Sub Scaletz two was commingled in the discovery well.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "B.V.A." 1	General Petroleum Corp. "B.V.A." 1	Apr 1939	1 32S 24E	MD	11,886	Antelope	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Above Scaletz (AS)	4,200	15	Pliocene	San Joaquin	18	1,900	None
Sub Scaletz one (SS1)	4,000	20	Pliocene	San Joaquin	to	1,900	None
Sub Scaletz two (SS2)	4,050	15	Pliocene	San Joaquin		1,900	None
Mulinia	4,300	10	Pliocene	Etchegoin	28	2,090	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
442,605	109,397	1,872,855	3,580	139	123,784,391	58,135,220	9,044,059	1925	603	559	4,840

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Subsurface injection; transported by pipeline to Buena Vista Hills area to cooperative evaporation and percolation sumps located near westerly edge of field.

REMARKS: A gas injection project which was started in 1928 was discontinued in 1931 because it wasn't successful. A total of 401,499 Mcf was injected into 10 wells near the upper edge of the reservoir. A water flood project was started in 1962 and discontinued in 1966 after the injection of 890,107 bbls. of water

REFERENCES:



# CALIFORNIA DIVISION OF OIL AND GAS

BUENA VISTA HILLS AREA

BUENA VISTA OIL FIELD

Kern County

LOCATION: See map sheet of Buena Vista Oil Field

TYPE OF TRAP: Asymmetrical anticline; permeability variations; fractured shale

ELEVATION: 670 - 1,300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Mya (Gas)	Getty Oil Co. No. 1	Honolulu Consolidated Oil Co. No. 1	10 32S 24E	MD	0	12,000+	Aug 1909
Top Oil (Sub Scalez)	Getty Oil Co. No. 1	Honolulu Consolidated Oil Co. No. 1	10 32S 24E	MD	125	N.A.	Feb 1910
Sub-Mulinia, Wilhelm, Gusher, & Calitroleum	Operator name and well number unknown	Same as present	N.A.	MD	N.A.	N.A.	N.A.
99-9D	Standard Oil Co. of Calif. No. 99	Same as present	9 32S 24E	MD	281	293	Nov 1949
27-B (E sands)	Standard Oil Co. of Calif. No. 358	Standard Oil Co. of Calif. No. 54	27 31S 23E	MD	624	238	Mar 1944
Calidon (Gas)	Getty Oil Co. "Calidon" 101	Tidewater Oil Co. "Calidon" 101	19 31S 23E	MD	22	2,960	Jun 1966
Antelope Shale	Getty Oil Co., Opr. No. 9D-502	Standard Oil Co. of Calif. No. 503	9 32S 24E	MD	170	300	Mar 1952
555 Stevens	Atlantic Richfield Co. Opr. "555 S.Z. Unit" 555	Tidewater Oil Co. "Tidewater-Richfield" 555	20 31S 23E	MD	400	1,741	Nov 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. No. 25P	Honolulu Oil Corp. No. 25-P	Jun 1940	10 32S 24E	MD	14,622	Santos	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Mya (Gas)	1,800	several thin sands	Pliocene	San Joaquin	1,025	590	III
Top Oil (Sub-Scalez)	2,300	30	Pliocene	San Joaquin	19	2,060	III
Sub-Mulinia	2,400	20	Pliocene	Etchegoin		2,340	III
Wilhelm	2,500	65	Pliocene	Etchegoin	to	1,990	III
Gusher	2,600	50	Pliocene	Etchegoin		1,990	III
Calitroleum	2,900	120	Pliocene	Etchegoin		1,930	III
99-9D	3,100	30	Pliocene	Etchegoin	36	1,570	III
27B (E sands)	3,500	50	Pliocene	Etchegoin	23 - 33	1,830	III
Calidon (Gas)	3,800	50	Plio and Mio	Etchegoin and Monterey	1,013	700	IV
Antelope Shale	4,200	900	late Miocene	Monterey	26 - 34	1,490	IV
555 Stevens	5,300	300	late Miocene	Monterey	26 - 32	1,390	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,302,597	12,830,725	11,444,319	11,420	996	483,066,977	813,777,184	15,782,189	1947	2,157	2,009	11,970

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water Flood	1954	41,770,161	63
Gas injection for pressure maintenance	1927	142,312,310	15

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

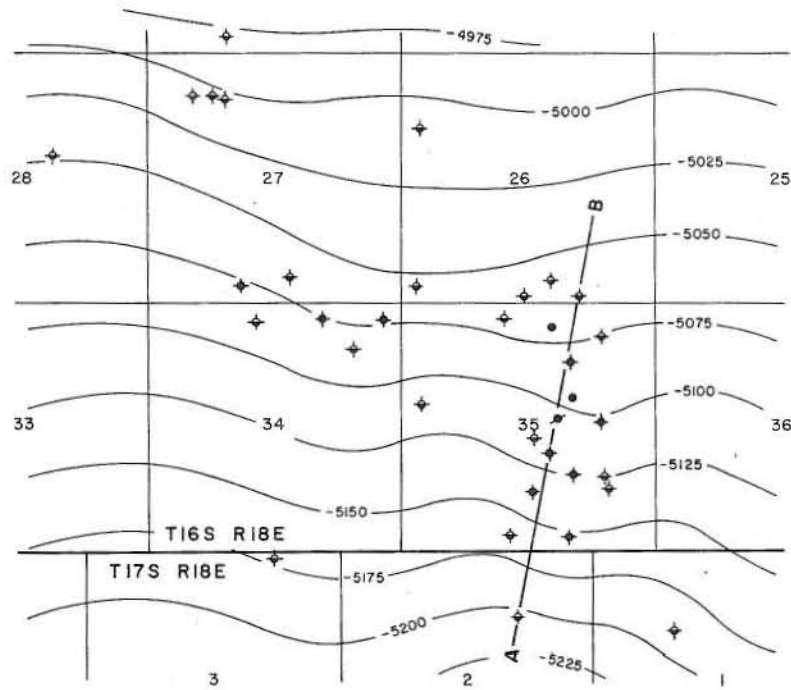
CURRENT CASING PROGRAM: 10 3/4" cem. 200 - 700; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Subsurface injection; percolation and evaporation from cooperative disposal sumps in western part of area.

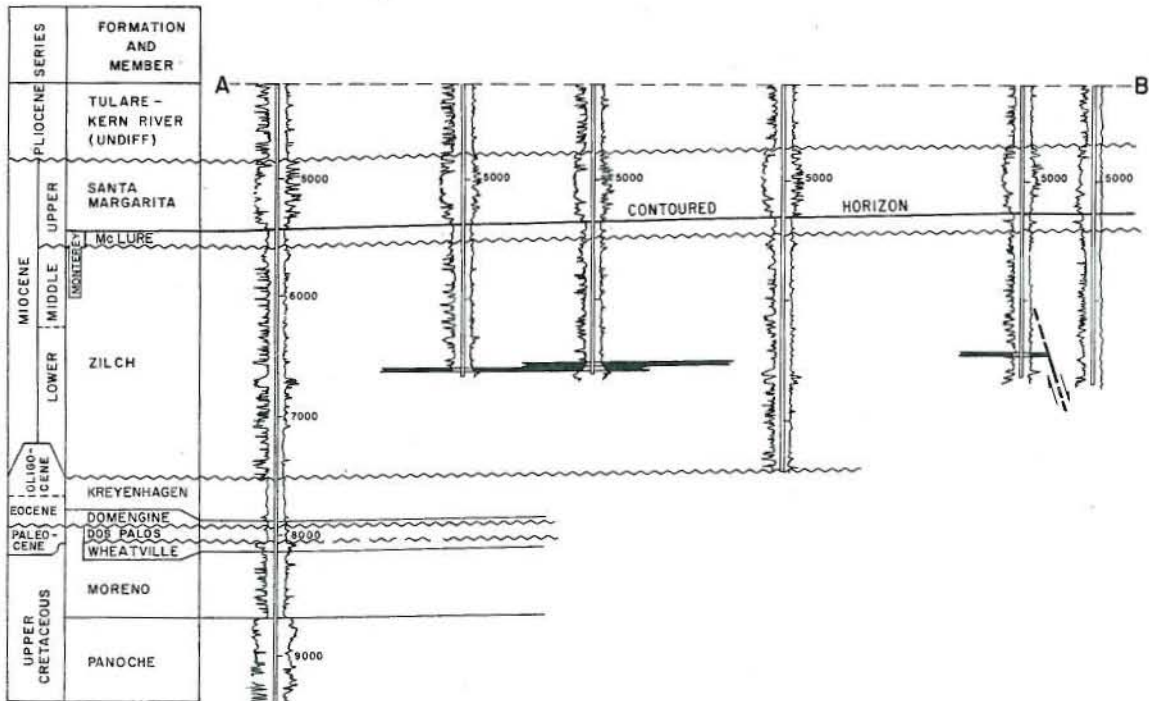
REMARKS: 1972 dry gas production 846,468 Mcf from 26 producing wells; cumulative dry gas production 81,433,815 Mcf; 51 wells were drilled for dry gas and all were completed; proved acreage as of December 31, 1972, 1,310, maximum 2,160; peak production (1919) 8,443,943 Mcf. Commercial gas deliveries began in 1911.

REFERENCES:

# BURREL OIL FIELD



CONTOURS ON TOP OF McLURE



CALIFORNIA DIVISION OF OIL AND GAS

BURREL OIL FIELD

Fresno County

LOCATION: 19 miles southwest of Fresno

TYPE OF TRAP: Lenticular sands on a homocline

ELEVATION: 200

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Zilch	Lee Gibson Oil Co. "Burrel" 68-35	General Pet. Corp. of Calif. "Burrel" 68-35	35 16S 18E	MD	178	N.A.	Oct 1943

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Burrel" 1	General Pet. Corp. of Calif. "Burrel" 1	Jun 1941	2 17S 18E	MD	9,400	Brown Mountain	Late Cret

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Zilch	6,500	15	early Miocene	Zilch	28 - 32	2,390	III

PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
10,540	76	331,815	20	1	1,417,871	2,181,457	202,422	1950	26	12	210

STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400

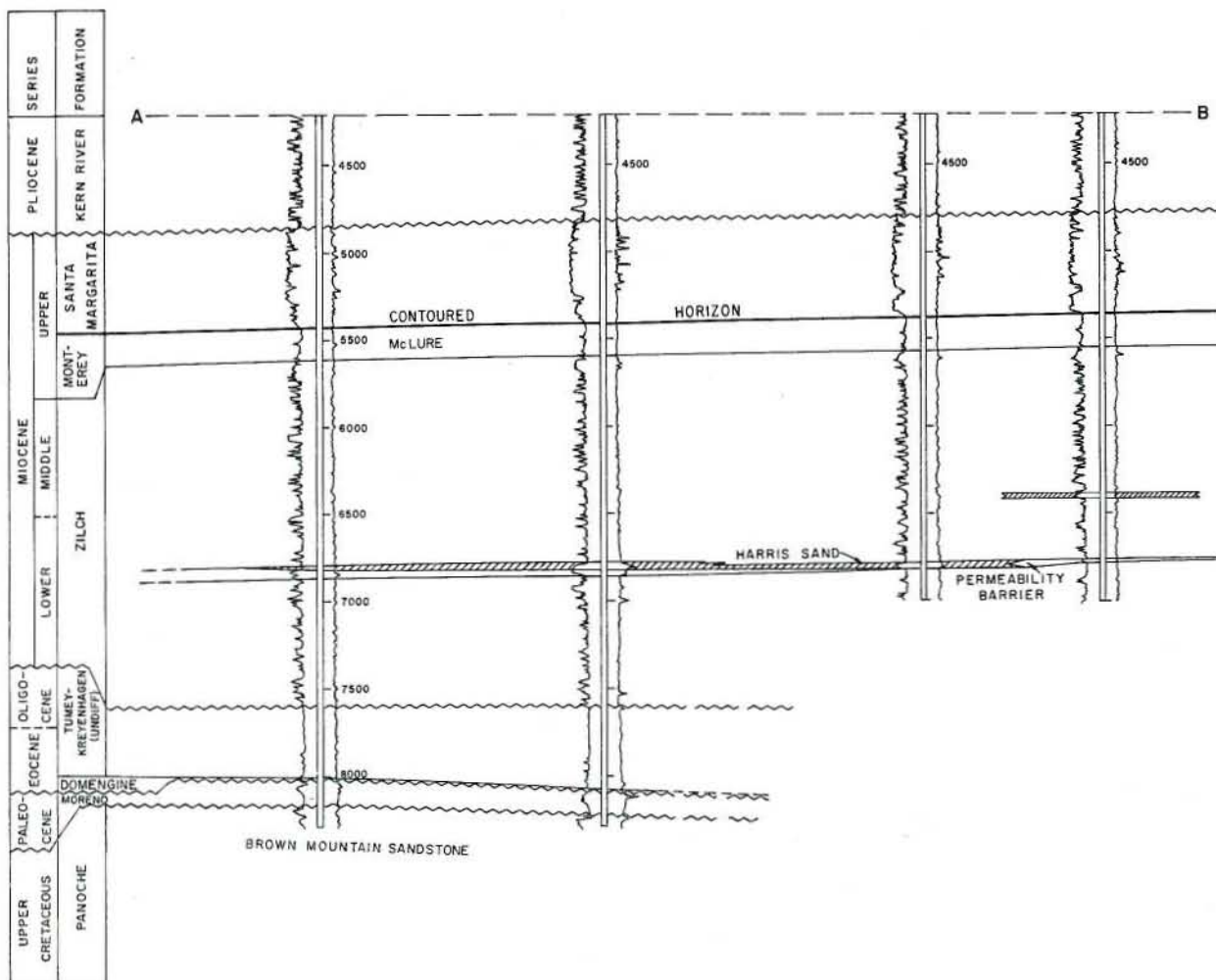
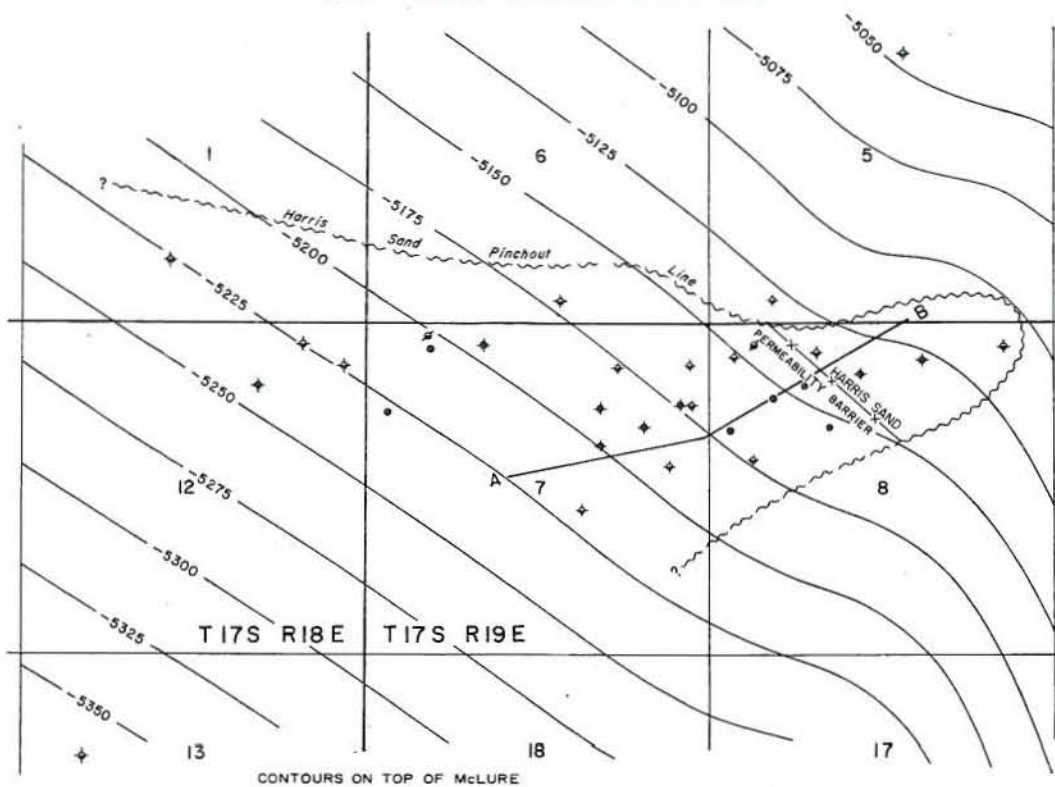
CURRENT CASING PROGRAM: 9 5/8" cem 500; 5 1/2" cem 6,700.

METHOD OF WASTE DISPOSAL: All of the water produced is injected into a disposal well.

REMARKS:

REFERENCES: Sullivan, John C., Burrel Oil Field: Calif. Div. of Oil and Gas, Summary of Operations -- Calif. Oil Fields, Vol. 46, No. 2 (1960).

# SOUTHEAST BURREL OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

BURREL, SOUTHEAST, OIL FIELD

Fresno County

LOCATION: 20 miles southwest of Fresno

TYPE OF TRAP: Lenticular sands on a homocline

ELEVATION: 205

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Zilch	Occidental Pet. Corp. "Burrel Ranch (NCT-1)" 1	The Texas Co. "Burrel Ranch (NCT-1)" 1	12 17S 18E	MD	115	37	May 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Norris Oil Co. "Union Central Life" 55X	Carr & Wrath "Union Central Life" 55X	Mar 1959	7 17S 19E	MD	8,500	Brown Mountain	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Zilch	6,700	10	early Miocene	Zilch	27 - 35	2,680	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
13,913	6,919	181,745	70	3	1,071,298	572,679	169,034	1961	27	14	195

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,30- - 1,900

CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zone and across base of fresh water sands.

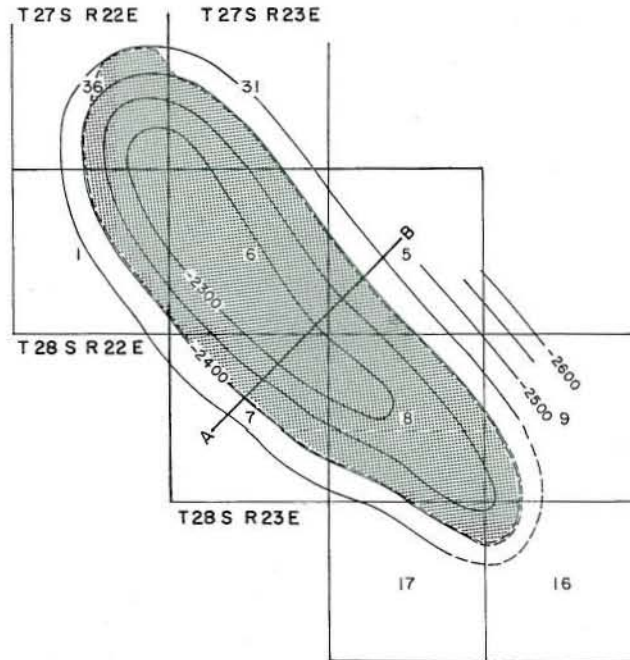
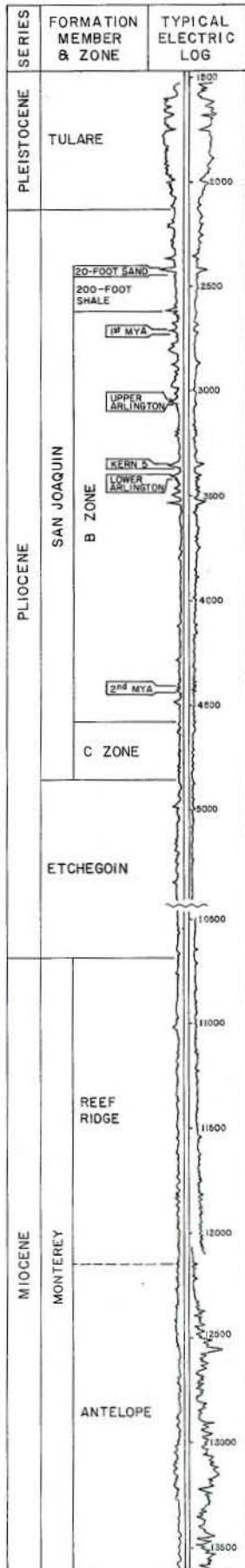
METHOD OF WASTE DISPOSAL: All water is injected.

REMARKS:

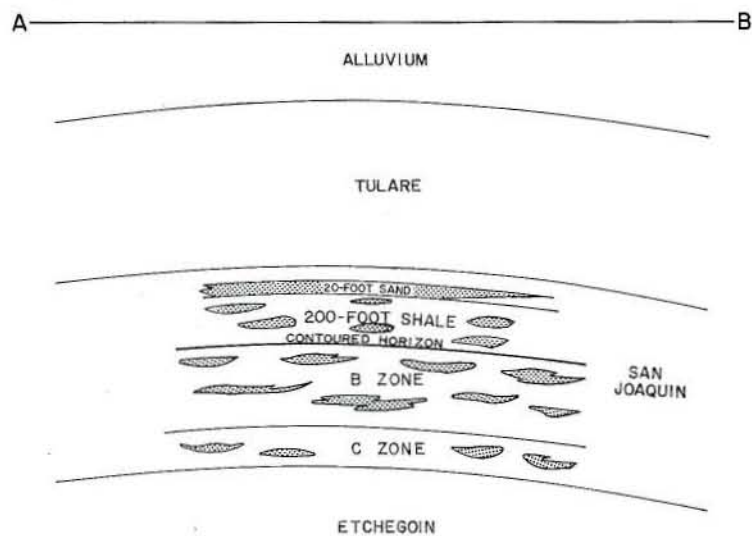
REFERENCES: Sullivan, J.C., Southeast Burrel Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 1 (1961).



# BUTTONWILLOW GAS FIELD



CONTOURS ON TOP OF B ZONE



## CALIFORNIA DIVISION OF OIL AND GAS

BUTTONWILLOW GAS FIELD

Kern County

LOCATION: 30 miles northwest of Bakersfield

TYPE OF TRAP: Anticline with lenticular sands

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
San Joaquin Gas Zones	Texaco Inc. "Kern" 1-A	Milham Expl. Co. "Kern" 1-A	8 28S 23E	MD	5,242	1,000	28/64	Aug 1927

Remarks: Milham Exploration Co. well No. "Kern" 1, Sec. 8, T. 28S., R. 23E., blew out at 3,323' on Nov. 3, 1926. For two days the well blew at an estimated rate of 40,000 Mcf/d. of gas. Sand bridged off the hole killing the well, leaving a crater 80 feet in diameter and 70 feet in depth.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Bravo" 1	Same	Dec 1970	17 28S 23E	MD	15,450	Antelope	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
San Joaquin Gas Zones	2,300 - 3,200	15	Pliocene	San Joaquin	985	1,100	1,010	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
599	4	40	1	38,331,438	4,323,685	1935	58	44	2,200

SPACING ACT: Does not apply

BASE OF FRESH WATER: 1,200

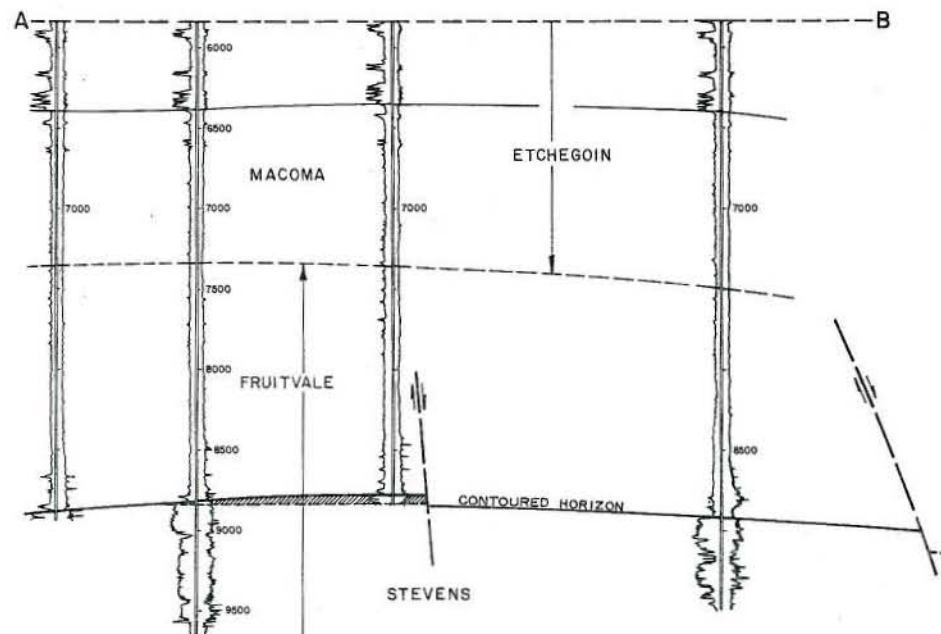
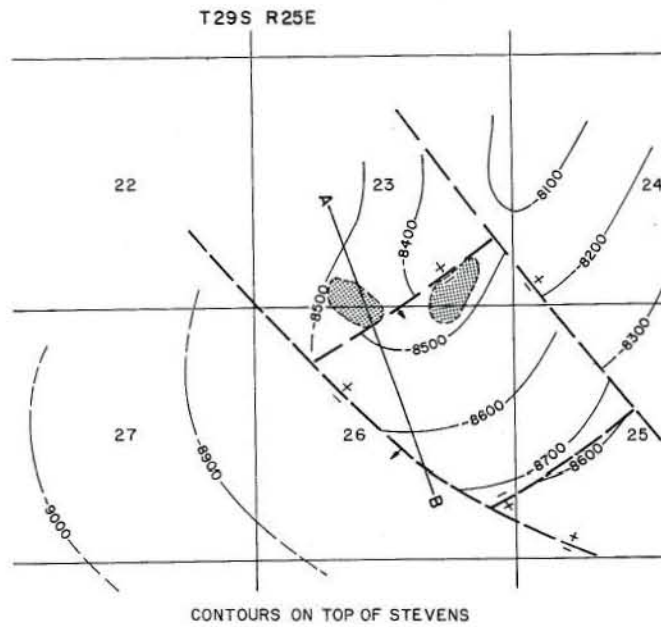
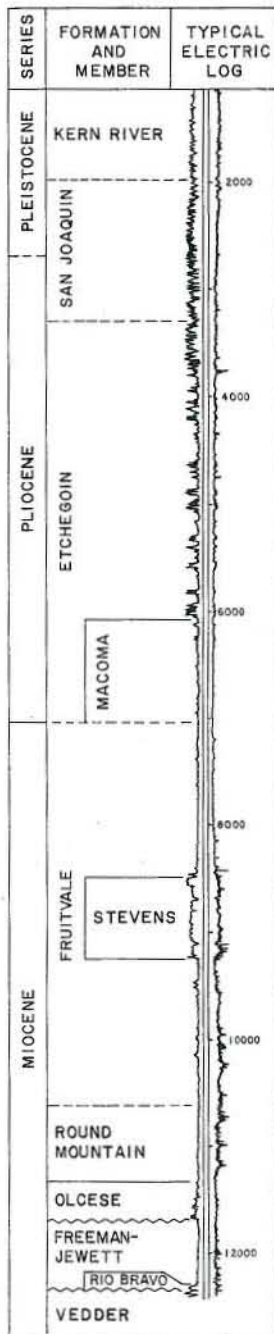
CURRENT CASING PROGRAM: 9 5/8" cem. 700; 5 1/2" cem. through zone and across base of fresh water sands.

METHOD OF WASTE DISPOSAL:

REMARKS:

REFERENCES: Kaplow, E.J., Gas Fields of Southern San Joaquin Valley: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 24, No. 1 (1958).  
 Musser, E.H., Buttonwillow Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 15, No. 3 (1930).

# CALDER'S CORNER OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

CALDERS CORNER OIL FIELD

Kern County

LOCATION: 13 miles west of Bakersfield

TYPE OF TRAP: Faulted anticlinal nose with lateral permeability changes

ELEVATION: 335

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Mobil Oil Corp. "KCL-Calder" 38-23	General Petroleum Corp. "KCL-Calder" 38-23	23 29S 25E	MD	128	175	May 1949

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Oct 1948	23 29S 25E	MD	12,733	Vedder	late Miocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Stevens	8,785	25	late Miocene	Fruitvale	35	1,450	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
5,495	7,386	550	50	1	461,011	545,969	52,175	1950	9	4	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400

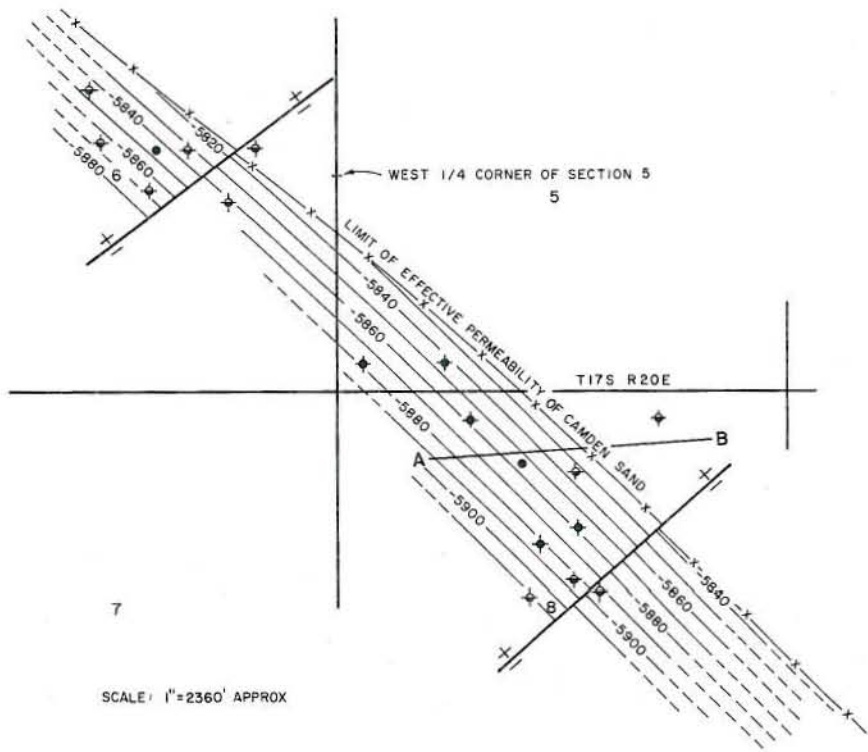
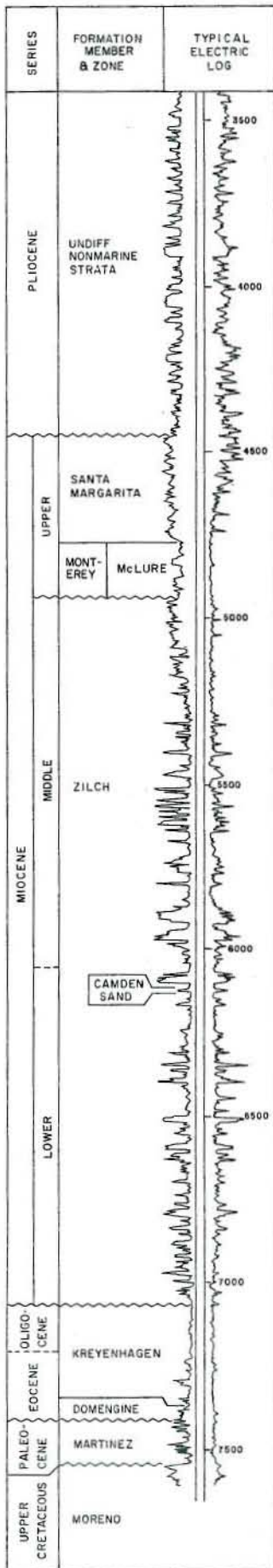
CURRENT CASING PROGRAM: 11 3/4" cem. 1,000; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

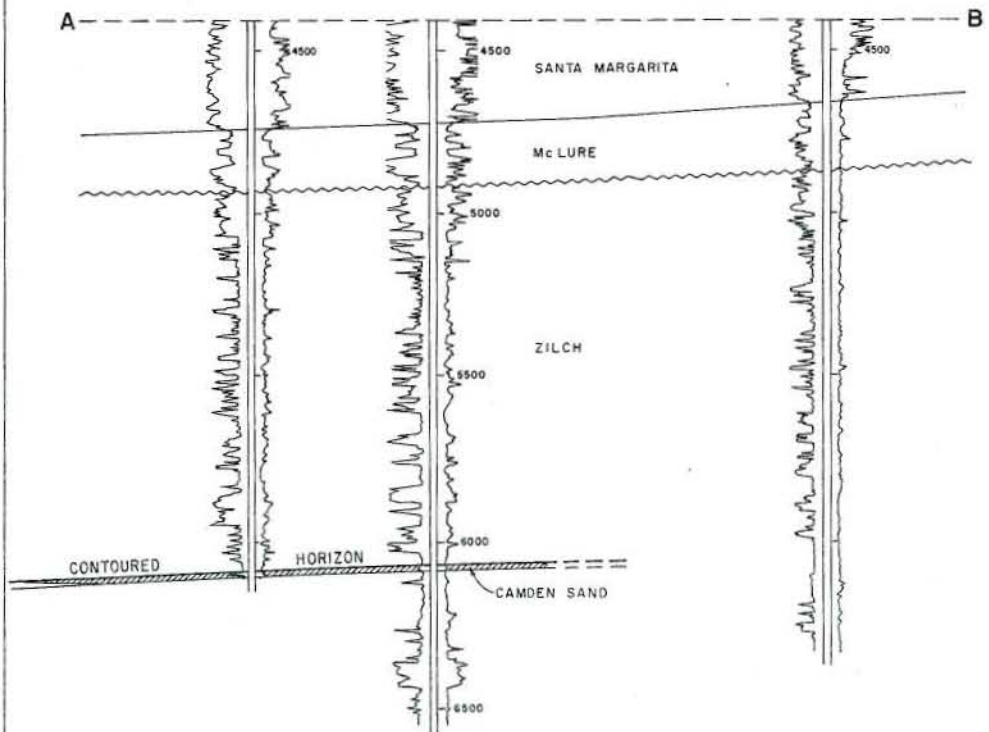
REMARKS:

REFERENCES: Weddle, J.R., Calders Corner Oil Field; Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 1 (1960).

# CAMDEN OIL FIELD



CONTOURS ON TOP OF CAMDEN SAND





# CALIFORNIA DIVISION OF OIL AND GAS

CAMDEN OIL FIELD  
Fresno County

LOCATION: 18 miles south of Fresno

TYPE OF TRAP: Lenticular sand on a homocline

ELEVATION: 230

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Camden	Lebow-Radin "Coleman Community" 1	Elmer C. von Glahn "Coleman Community" 1	8 17S 20E	MD	80	N.A.	Jun 1951

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Lebow-Radin "Coleman Community" 1	Elmer C. von Glahn "Coleman Community" 1	May 1951	8 17S 20E	MD	7,602	Moreno	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Camden	6,120	17	early Miocene	Zilch	33	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,944	4,100	19	20	2	255,395	346,707	45,651	1952	19	7	90

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,900

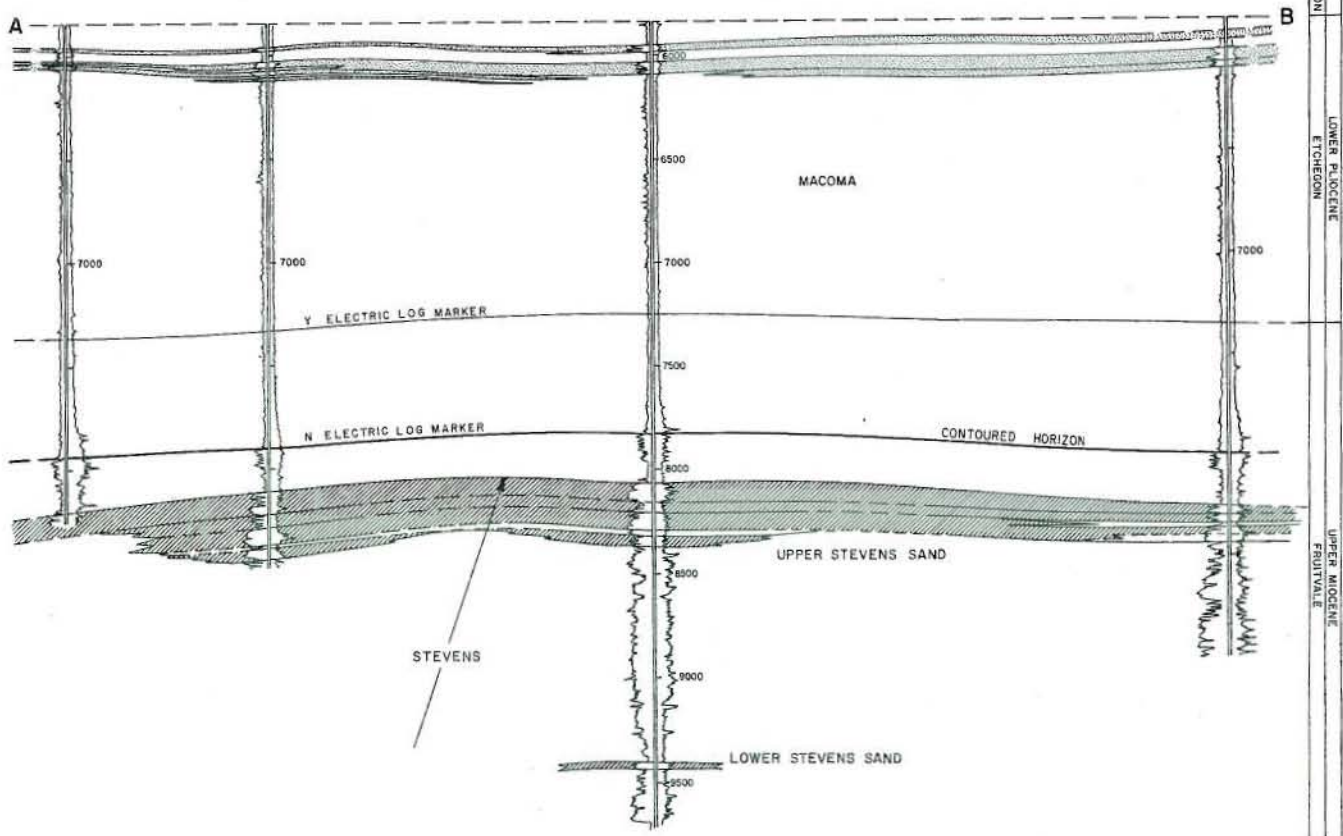
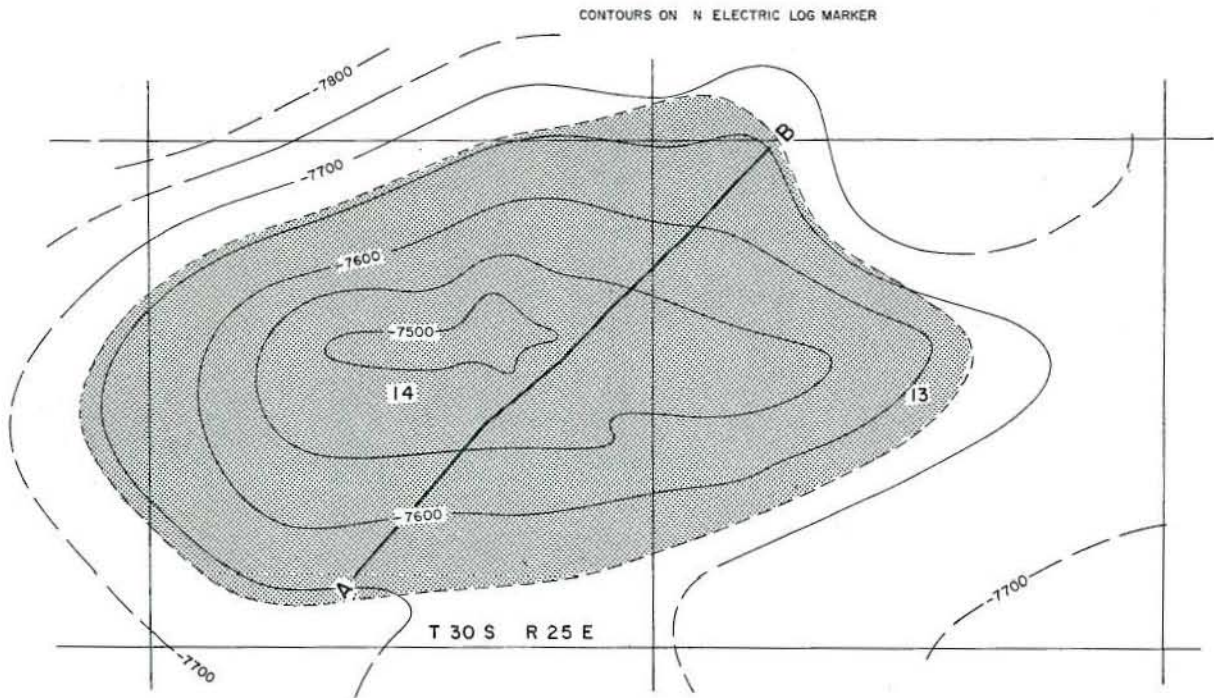
CURRENT CASING PROGRAM: 10 3/4" cem 500; 7" cem 6,100; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: The small volume of water produced is disposed on the lease by evaporation.

REMARKS:

REFERENCES:

# CANAL OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

CANAL OIL FIELD

Kern County

LOCATION: 14 miles southwest of Bakersfield

TYPE OF TRAP: Anticline; lithofacies variations

ELEVATION: 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pliocene Gas Sands	Shell Oil Co. "KCL" 23X-14	Shell Oil Co. "Canal KCL A" 23X-14	14 30S 25E	MD	0	2,235	Mar 1960
Upper Stevens	Marathon Oil Co. "KCL-E" 3	The Ohio Oil Co. "KCL-E" 3	14 30S 25E	MD	2,267	1,700	Nov 1937
Lower Stevens	Marathon Oil Co. "KCL-E" 24	Standard Oil Co. of Calif. "KCL" 384-14	14 30S 25E	MD	422	278	Dec 1964

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Canal A" 44-14	Same	Jun 1941	14 30S 25E	MD	13,400	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pliocene Gas Sands	3,100 - 5,900	thin stringers	Pliocene	San Joaquin & Etchegoin	N.A.	N.A.	III
Upper Stevens	8,000	100	lt Miocene	Fruitvale	35	390 - 800	III
Lower Stevens	9,400	80	lt Miocene	Fruitvale	35	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
341,978	201,595	1,034,250	460	11	24,689,362	25,682,051	2,033,795	1940	51	47	780

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1958	26,471,416	7

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

CURRENT CASING PROGRAM: 10 3/4" cem. 1,000; 5 1/2" cem. through zone.

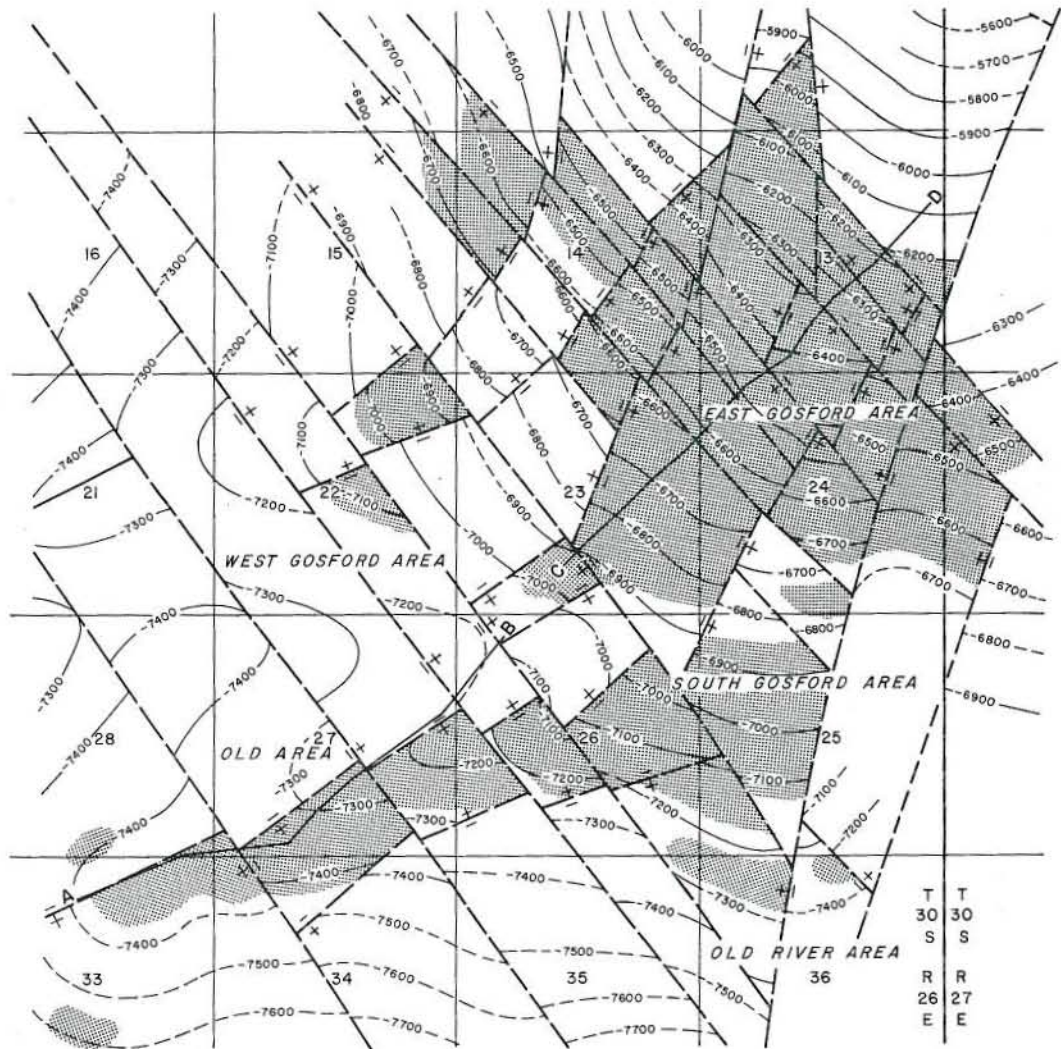
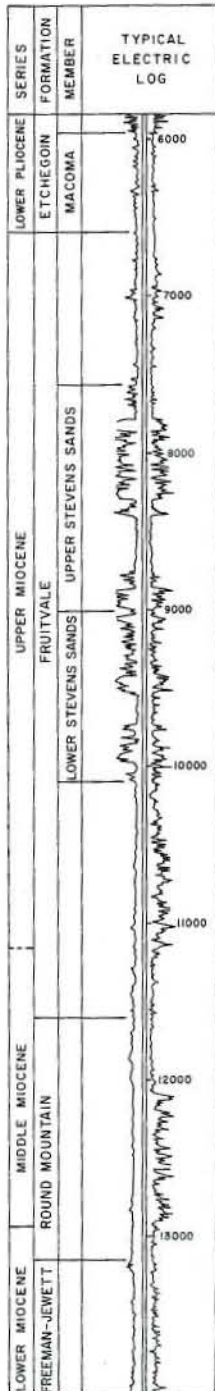
METHOD OF WASTE DISPOSAL: Waste water is used in water flood operations.

REMARKS: Field has one water flood source well. Gas was injected into the Upper Stevens pool for pressure maintenance. Cumulative injection from 1941 to 1959 totaled 55,630,000 Mcf. No 1972 dry gas production; cumulative dry gas production 1,501,878 Mcf; 3 wells were drilled for dry gas and 3 were completed.

REFERENCES: Walling, R.W., Canal and Strand Oil Fields: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 24, No. 4 (1939).

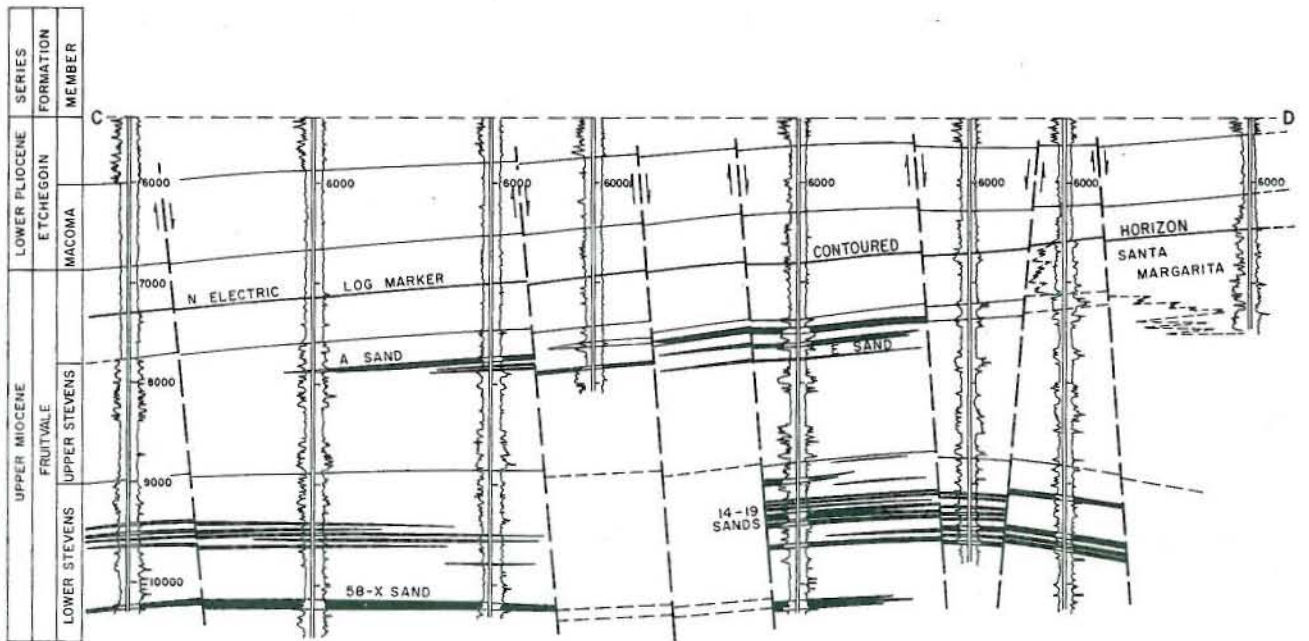
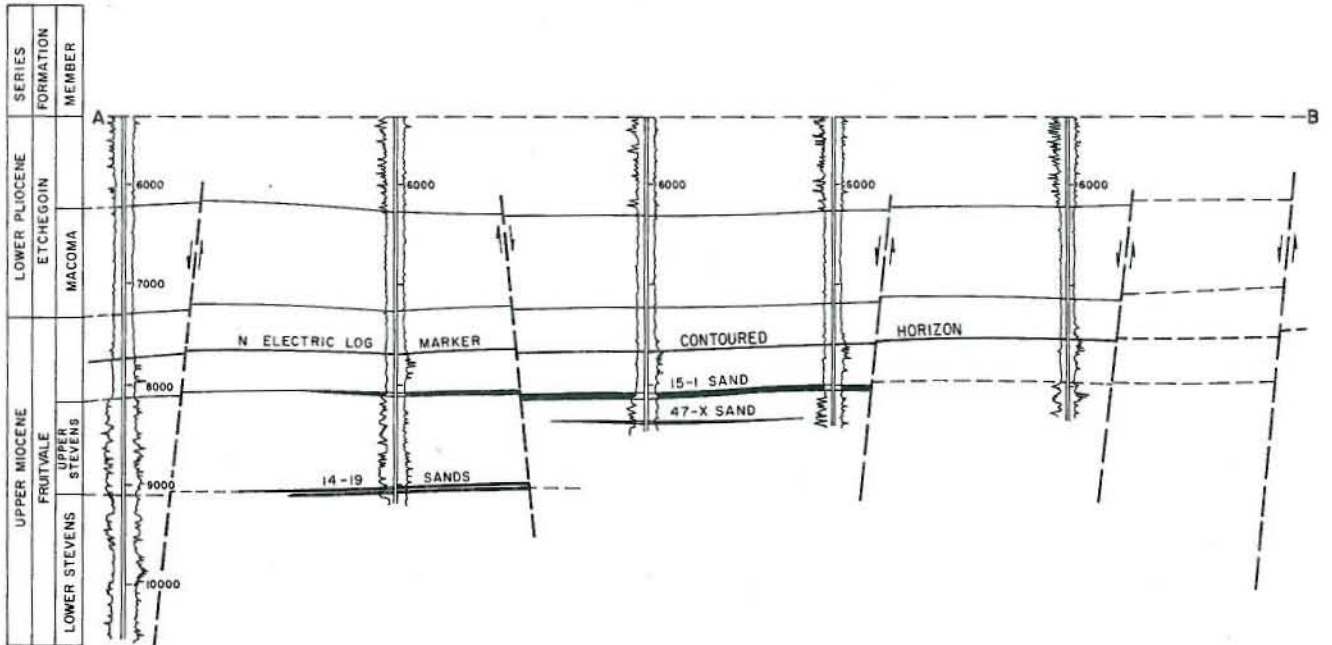


# CANFIELD RANCH OIL FIELD



CONTOURS ON N ELECTRIC LOG MARKER

# CANFIELD RANCH OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

CANFIELD RANCH OIL FIELD

Kern County

LOCATION: 10 miles southwest of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Tenneco West, Inc. No. 56	Standard Oil Co. of Calif. "K.C.L. 15" 1	27 30S 26E	MD	250	N.A.	Jan 1938

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL" 64-34	Same	Jul 1966	34 30S 26E	MD	16,322	Vedder	early Mio

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
669,330	576,774	1,850,886	1,735	83	26,383,033	26,813,190	2,370,798	1961	196	134	2,015

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.

# CALIFORNIA DIVISION OF OIL AND GAS

CANFIELD RANCH OIL FIELD

EAST GOSFORD AREA

Kern County

LOCATION: See map sheet of Canfield Ranch Oil Field

TYPE OF TRAP: Faulted homocline with lenticular sands

ELEVATION: 365

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Signal Oil and Gas Co. "K.C.L." 83-23	The Hancock Oil Co. of Calif. "K.C.L." 83-23	23 30S 26E	MD	352	142	Feb 1949

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "Union-Statex-K.C.L." 1-V-13	Universal Consolidated Oil Co. "Union-Statex-K.C.L." 1-V-13	Feb 1960	13 30S 26E	MD	14,073	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	7,900 - 9,800	thin stringers up to 100' thick	late Miocene	Fruitvale	33	1,340	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
383,515	314,532	1,478,400	1,190	55	19,810,011	21,316,979	2,047,945	1959	103	86	1,360

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,600

CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: 1,459,553 bbl. of waste water was injected during 1972 into 3 disposal wells open to Etchegoin below the base of fresh water.

REMARKS:

REFERENCES: Matthews, J.F., Jr., Canfield Ranch Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).

## CALIFORNIA DIVISION OF OIL AND GAS

CANFIELD RANCH OIL FIELD

SOUTH GOSFORD AREA

Kern County

LOCATION: See map sheet of Canfield Ranch Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 340

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Tenneco West, Inc. "Coulter" 34	Universal Consolidated Oil Co. "KCY-Coulter" 34-25	25 30S 26E	MD	528	--	Mar 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco West, Inc. "Coulter" 34	Universal Consolidated Oil Co. "KCY-Coulter" 34-25	Feb 1961	25 30S 26E	MD	10,656	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	7,950 - 10,150	100	late Miocene	Fruitvale	34	770	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
223,064	131,701	149,233	410	18	5,177,633	3,673,985	859,864	1962	45	26	410

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,600

CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" cem. through productive zone.

METHOD OF WASTE DISPOSAL: 137,224 bbl. of waste water was injected during 1972 into one disposal well open to Etchegoin below base of fresh water.

REMARKS:

REFERENCES: Barnes, J.A., South Gosford Area of Canfield Ranch Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).

# CALIFORNIA DIVISION OF OIL AND GAS

WEST GOSFORD AREA

CANFIELD RANCH OIL FIELD

Kern County

LOCATION: See map sheet of Canfield Ranch Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Getty Oil Co. "KCL" 44-22	Tidewater Associated Oil Co. "KCL" 44-22	22 30S 26E	MD	143	N.A.	Aug 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "Mobil-KCL" 31-22	Universal Consolidated Oil Co. "Mobil-KCL" 31-22	Feb 1962	22 30S 26E	MD	10,355	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	7,900	150	late Miocene	Fruitvale	28	1,330	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
13,019	13,995	86,427	10	1	274,402	253,411	29,726	1946	11	6	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,600

CURRENT CASING PROGRAM: 9 5/8" cem. 800; 5 1/2" cem. through productive zone.

METHOD OF WASTE DISPOSAL: Waste water is transported to South Gosford Area and injected into a water disposal well.

REMARKS:

REFERENCES: Matthews, J.F., Jr., Canfield Ranch Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).

# CALIFORNIA DIVISION OF OIL AND GAS

CANFIELD RANCH OIL FIELD

OLD AREA

Kern County

LOCATION: See map sheet of Canfield Ranch Oil Field

TYPE OF TRAP: Faulted anticlinal nose with stratigraphic variations

ELEVATION: 330

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Tenneco West, Inc. No. 56	Standard Oil Co. of Calif. "K.C.L. 15" 1	27 30S 26E	MD	250	N.A.	Jan 1938

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL" 64-34	Same	Jul 1966	34 30S 26E	MD	16,322	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	8,100	50	late Miocene	Fruitvale	28	1,290	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
41,686	35,692	125,535	115	8	967,246	1,335,721	90,767	1964	27	12	135

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,600

CURRENT CASING PROGRAM: 11 3/4" cem. 900; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is transported to South Gosford Area and Ten Section Oil Field where it is injected.

REMARKS:

REFERENCES: Matthews, J.F., Jr., Canfield Ranch Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).



# CALIFORNIA DIVISION OF OIL AND GAS

OLD RIVER AREA

CANFIELD RANCH OIL FIELD

Kern County

LOCATION: See map sheet of Canfield Ranch Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 340

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	The Superior Oil Co. "KCL" S1-36	Same as present	36 30S 26E	MD	123	91	Dec 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL" 73-35	Same	Mar 1965	35 30S 26E	MD	10,980	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	8,100	15	late Miocene	Fruitvale	36	1,200	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
8,046	80,854	11,291	10	1	153,741	233,094	34,400	1954	10	4	60

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,100

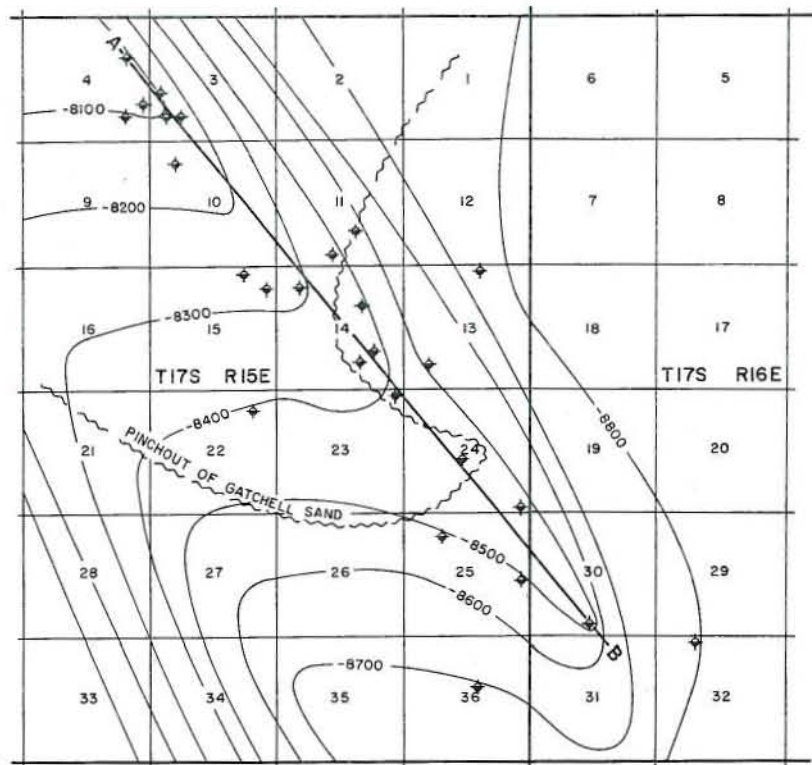
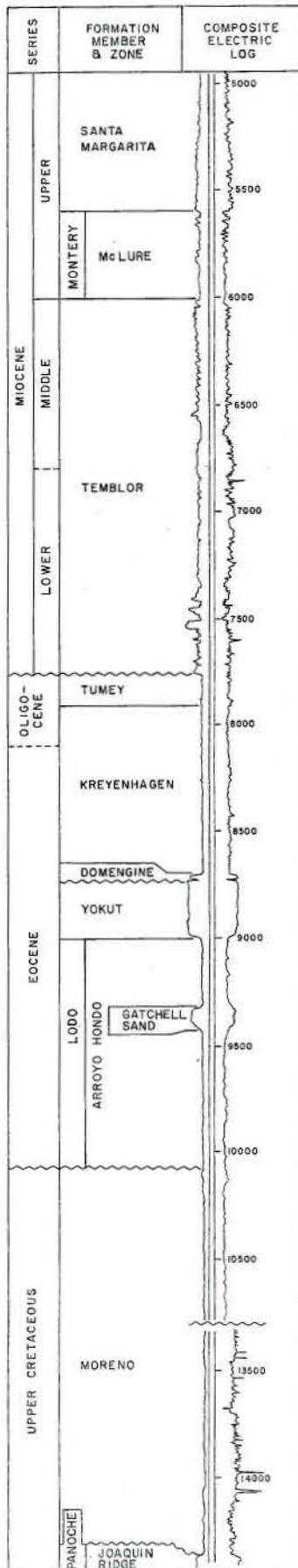
CURRENT CASING PROGRAM: 9 5/8" cem, 900; 5 1/2" cem, through zone.

METHOD OF WASTE DISPOSAL: Waste water is transported to South Gosford Area and injected into a water disposal well.

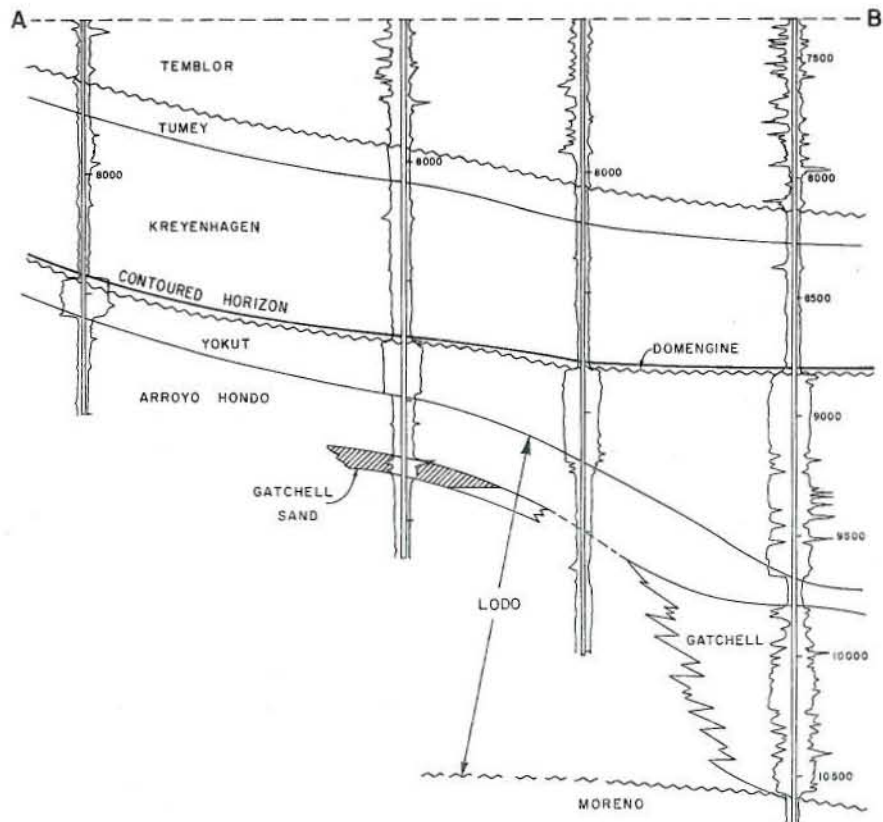
REMARKS:

REFERENCES: Matthews, J.F., Jr., Canfield Ranch Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).

# CANTUA CREEK OIL FIELD (Abandoned)



CONTOURS ON TOP OF DOMENGINE



## CALIFORNIA DIVISION OF OIL AND GAS

CANTUA CREEK OIL FIELD (Abandoned)

Fresno County

LOCATION: 22 miles north of Coalinga

TYPE OF TRAP: Sand pinchout on an anticlinal nose

ELEVATION: 350

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Gatchell	Texaco Inc. "S.P." 1	The Texas Co. "S.P." 1	23 17S 15E	MD	32	350	Jul 1940

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Giffen, Inc., et al" 67	Same	Sep 1968	14 17S 15E	MD	14,471	Joaquin Ridge	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Gatchell	9,300	90	Eocene	Lodo	49 - 58	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	40,171	800,707	21,286	1953	12	2	20

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000 - 2,900

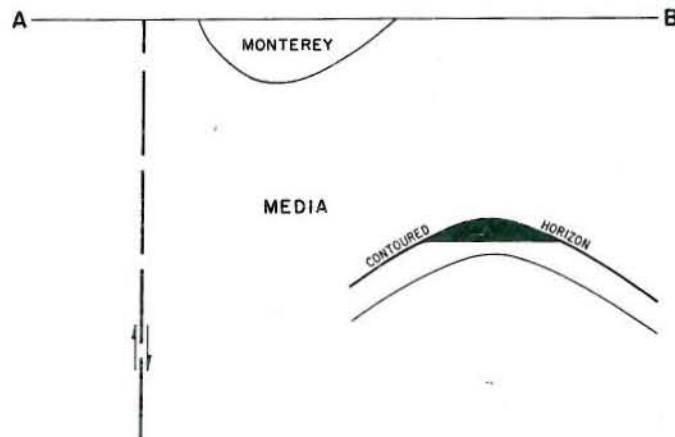
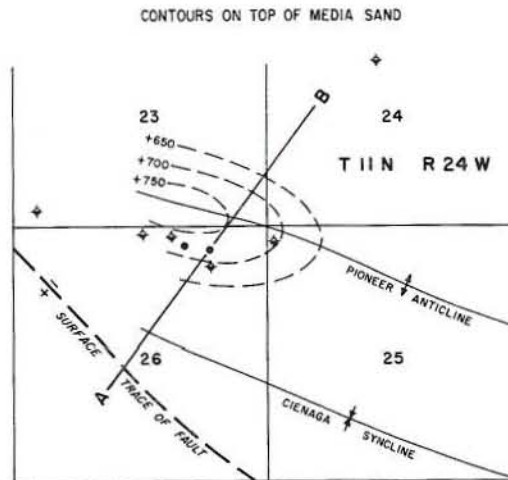
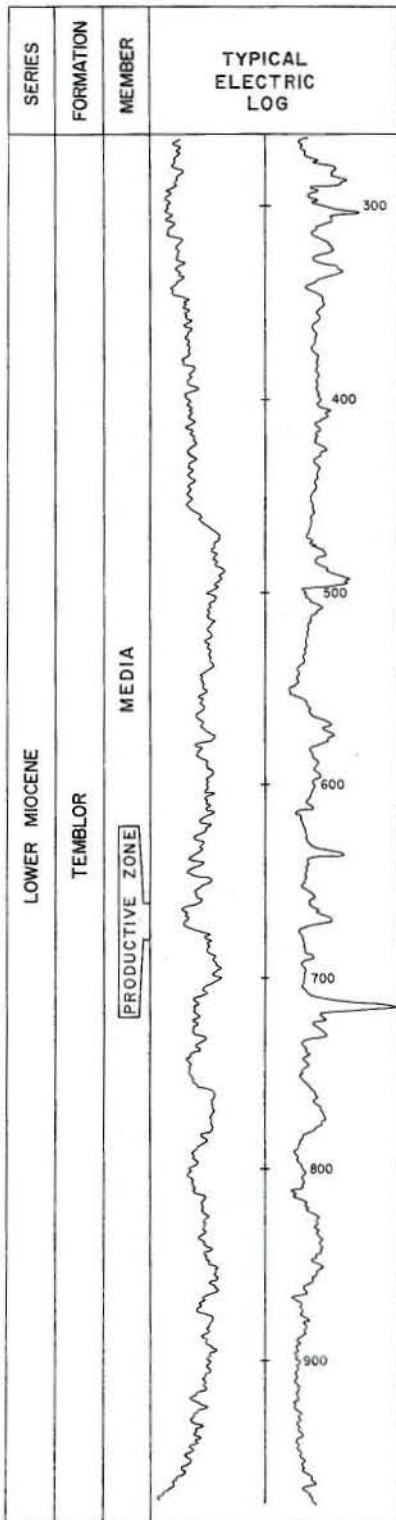
CURRENT CASING PROGRAM: 10 3/4" cem. 1,000; 5 1/2" cem. 9,500 and across base of fresh water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The last producing well was abandoned during 1956.

REFERENCES: Hill, F.L., Cantua Creek Area of Fresno County: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 1 (1960).

# CAPITOLA PARK OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

CAPITOLA PARK OIL FIELD

Kern County

LOCATION: 9 miles south of Taft

TYPE OF TRAP: Anticline

ELEVATION: 1,570

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Media	Lynn Hall, Jr. "Bell-Potter" 1	Pauley Petroleum Inc. "Bell-Potter" 1	26 11N 24W	SB	54	N.A.	Jul 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Signal Oil and Gas Co. "Orloff" 1	Bankline Oil Co. "Orloff" 1	Nov 1930	26 11N 24W	SB	5,051	Temblor	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Media	650	50	early Miocene	Temblor	26	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
629	0	611	20	1	11,360	4,908	2,985	1962	6	2	20

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: The discovery well was drilled through the producing zone utilizing air as the circulating medium.

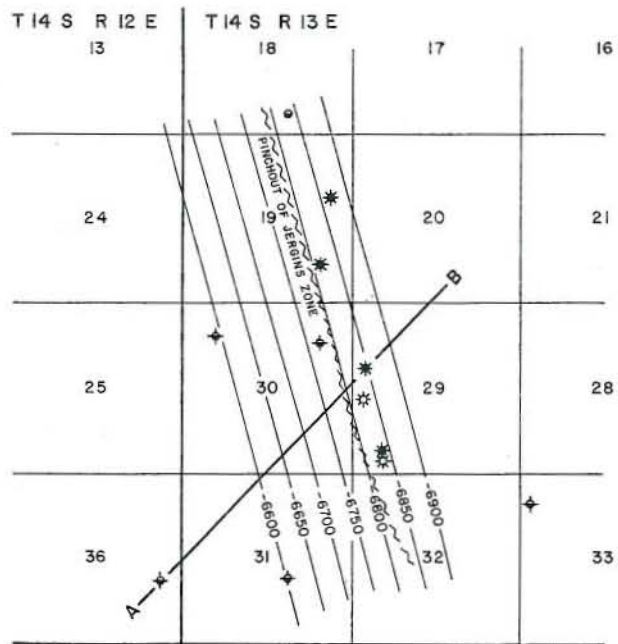
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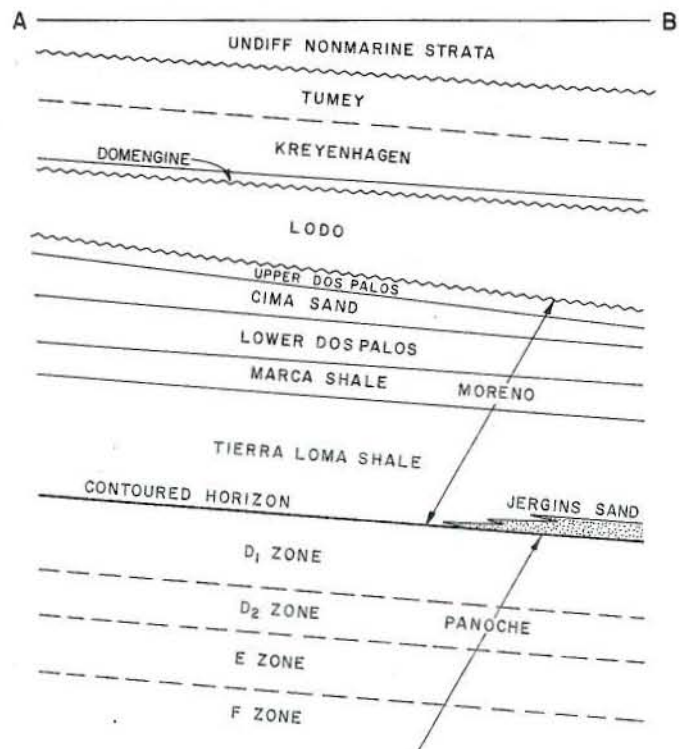
# CHENEY RANCH GAS FIELD



\* SODKOFF ASSEMBLAGE ZONE



CONTOURS ON TOP OF PANOCHÉ



CALIFORNIA DIVISION OF OIL AND GAS

CHENEY RANCH GAS FIELD

Fresno County

LOCATION: 35 miles northwest of Coalinga

TYPE OF TRAP: Lithofacies change

ELEVATION: 410

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Jergins	Exxon Corp. "Cheney Ranch" 1	Jergins Oil Co. "Cheney Ranch" 1	29 14S 13E	MD	170	20	1/2	Jul 1940

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
L.M. Lockhart "England" 1-31	Same	Nov 1950	31 14S 13E	MD	10,357	Panoche	Lt Cret

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Jergins	7,000	200	Lt Cretaceous	Moreno	1,170	N.A.	2,650	IV

PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	309,325	75,696	1941	9	6	10

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200 - 1,600

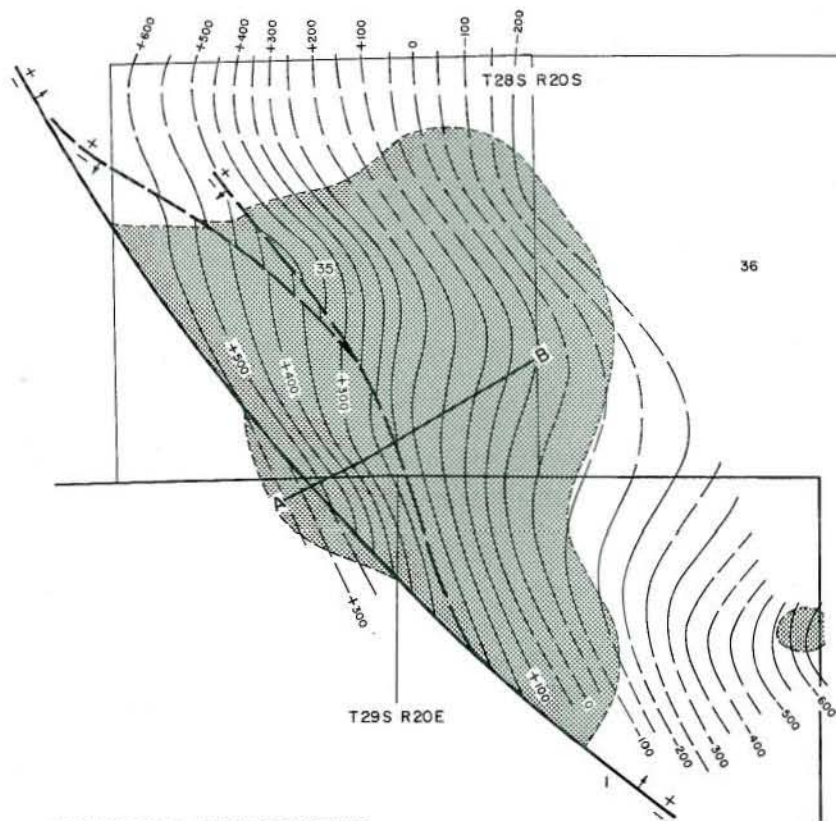
CURRENT CASING PROGRAM: 9" cem. 1,700; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL:

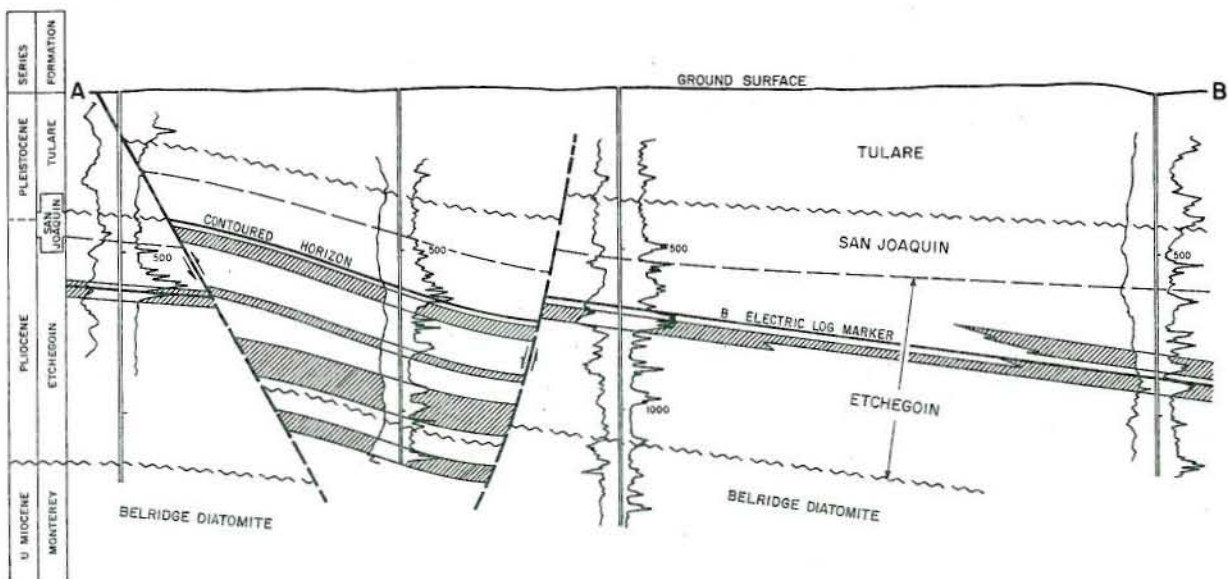
REMARKS: Originally this field was classified as an oil field with 2 producers. Last production from the field was during 1951, and the field was officially abandoned in 1964. The field was reactivated in 1972 and reclassified as a gas field effective January 1, 1972. The cumulative production of condensate amounted to 12,459 barrels. Five new wells have been drilled, four of which have been completed as potential gas producers, but are currently shut in awaiting the installation of a pipeline. Proved acreage has not been assigned to the new wells pending production.

REFERENCES:

# CHICO-MARTINEZ OIL FIELD



CONTOURS ON B ELECTRIC LOG MARKER



## CALIFORNIA DIVISION OF OIL AND GAS

CHICO-MARTINEZ OIL FIELD

Kern County

LOCATION: 28 miles northwest of Taft

TYPE OF TRAP: Faulted homocline with lateral permeability variations

ELEVATION: 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbi)	Gas (Mcf)	
Etchegoin	Pyramid Oil Co. No. 5	Max L. Pray No. 1	1 29S 20E	MD	12	N.A.	Mar 1927

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mericle Oil Co., Fred Luke, Receiver "Mitchel" 35-4	Standard Oil Co. of Calif. "S.O.-Bacon et al" 24-35	Mar 1966	35 28S 20E	MD	6,540	McDonald	m Miocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin	900	35	Pliocene	Etchegoin	12	1,000	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbi)	Net gas (Mcf)	Water (bbi)			Oil (bbi)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
6,634	0	86,605	270	11	249,499	5	68,401	1970	66	54	290

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" or 5 1/2" cem. through zone.

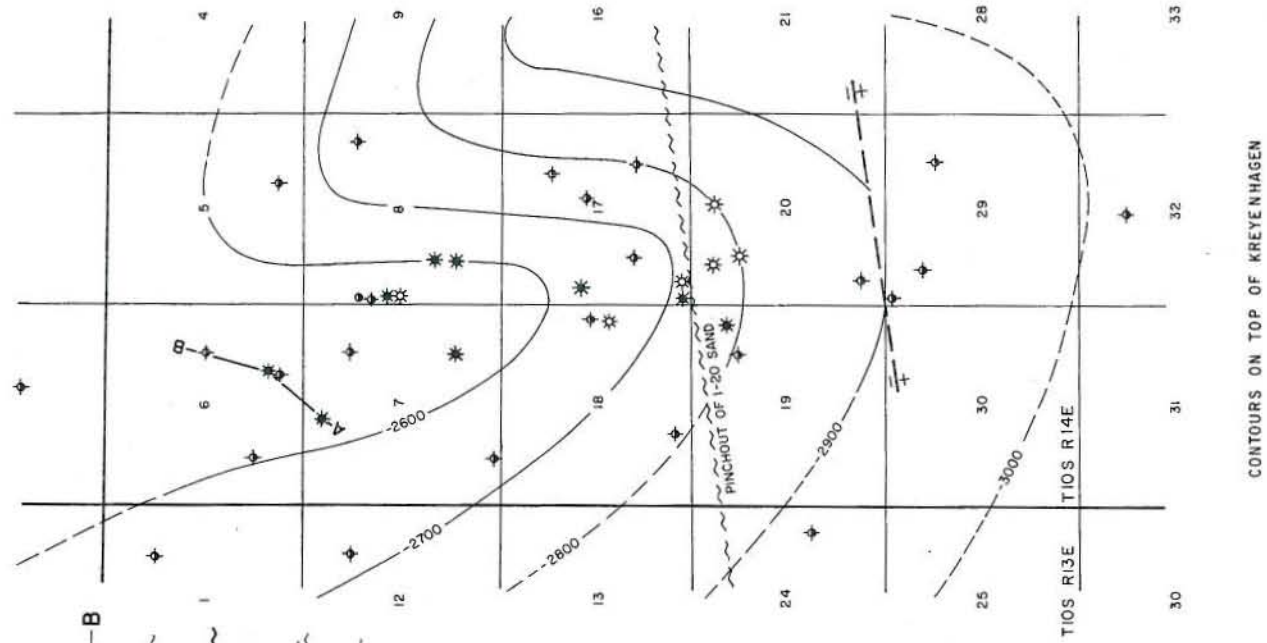
METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

REMARKS: Separated from Temblor Ranch field Jan. 1, 1946. A cyclic steam-injection project was active from 1967 to 1971. A total of 230,373 bbls. of water, in the form of steam, was injected into 26 wells. In some wells the upper portion of the Belridge diatomite has been included in the over-all productive interval. Boron contents as high as 50 ppm. have been reported in the waste water.

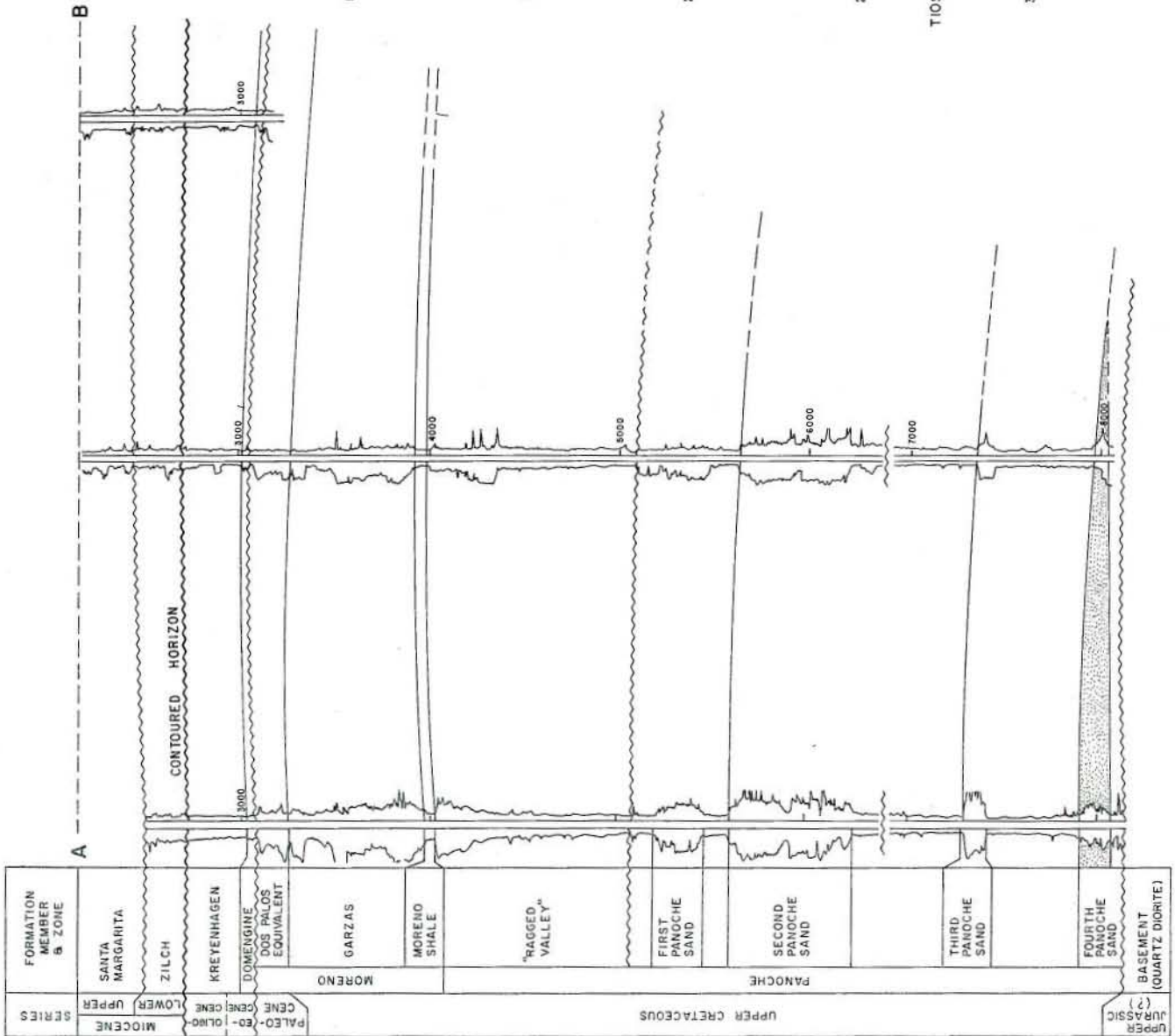
REFERENCES: Weddle, J.R., Chico-Martinez Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 1 (1968).



# CHOWCHILLA GAS FIELD



CONTOURS ON TOP OF KREYENHAGEN





## CALIFORNIA DIVISION OF OIL AND GAS

CHOWCHILLA GAS FIELD

Madera County

LOCATION: 12 miles west of Chowchilla

TYPE OF TRAP: Anticlinal nose; lenticular sands on anticlinal nose

ELEVATION: 150

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Zilch (Upper)	Chowchilla Gas Co. "Chowchilla" 2	The Pure Oil Co. "Chowchilla" 2	8 10S 14E	MD	1,100	860	N.A.	Feb 1936
Zilch (1-20)	Chowchilla Gas Co. "Redman-Stone" 1-20	Tide Water Associated Oil Co. "Redman-Stone" 1-20	20 10S 14E	MD	7,000	680	40/64	Feb 1953
Cretaceous	Chowchilla Gas Co. "Chowchilla" 1	The Pure Oil Co. "Chowchilla" 1	7 10S 14E	MD	18,000	525	57/64	Apr 1935

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Chowchilla Gas Co. "Chowchilla" 1	The Pure Oil Co. "Chowchilla" 1	May 1934	7 10S 14E	MD	8,399	Basement (granite)	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Zilch (Upper)	2,700	15	early Miocene	Zilch	950	850	1,000	IV
Zilch (1-20)	2,830	35	early Miocene	Zilch	950	850	1,140	IV
Cretaceous	8,000	50	Lt Cretaceous	Panoche	435	1,700	2,800	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
2,405,830	0	200	2	9,051,277	2,405,830	1972	34	14	370

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100 - 1,150

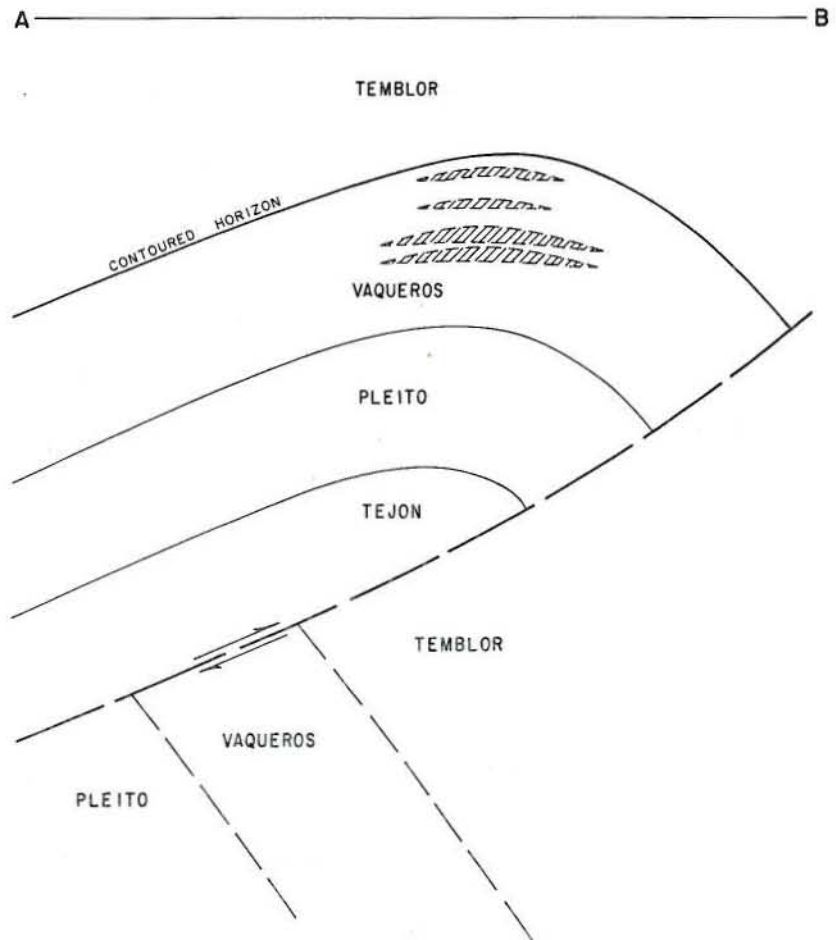
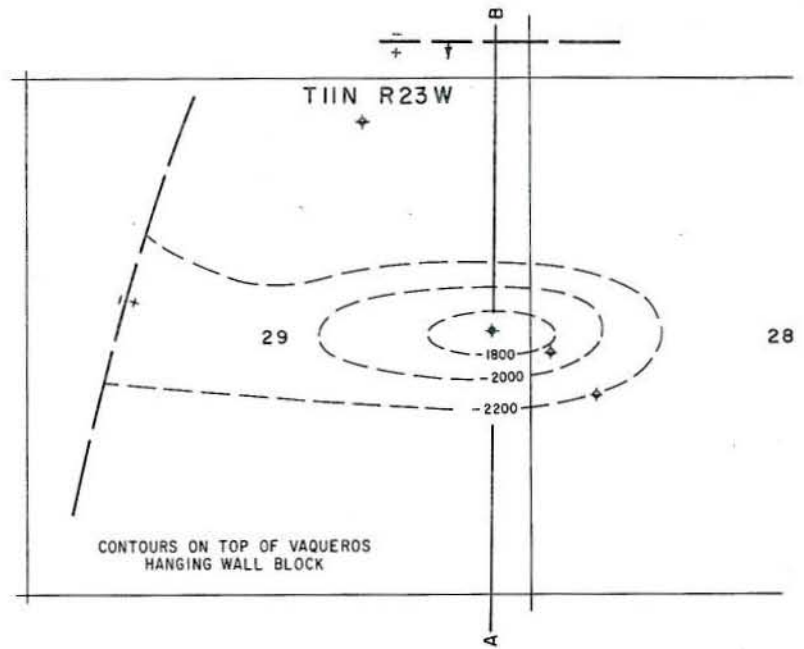
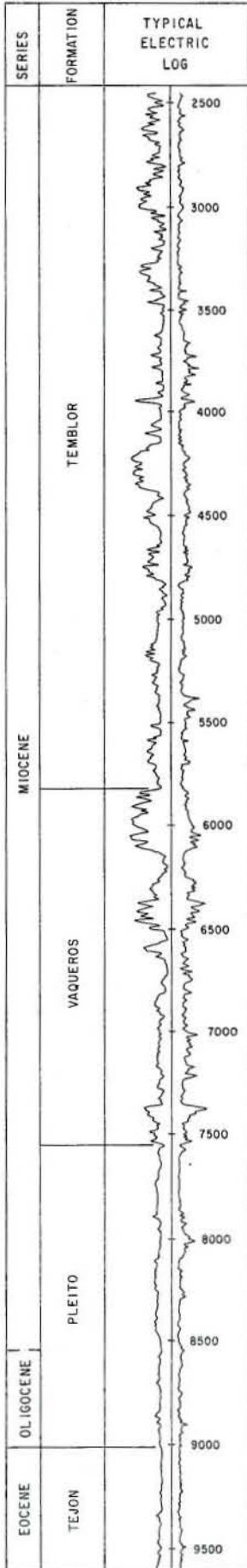
CURRENT CASING PROGRAM: 9 5/8" cem 900; 5 1/2" cem 8,200 (Cretaceous completions).

METHOD OF WASTE DISPOSAL:

REMARKS: Sustained production was not obtained from the Cretaceous pool until 1969 when a plant was installed to raise the low btu gas up to utility standards. All production since 1962 has been from the Cretaceous zone. The two Zilch intervals are shut in because they are noncommercial.

REFERENCES: Hodges, F.C., Chowchilla Gas Area: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 29, No. 2 (1943).  
Hunter, G.W., Chowchilla Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).

# CIENAGA CANYON OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

CIENAGA CANYON OIL FIELD (Abandoned)

Kern County

LOCATION: 21 miles southeast of Taft

TYPE OF TRAP: Anticline

ELEVATION: 1,200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vaqueros	Mobil Oil Corp. No. 1	Springs Co. "Bell & Wrightsman" 1	29 11N 23W	SB	12	N.A.	Oct 1926

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco Oil Co. "Pioneer Unit" 1-28	Same	Jul 1971	28 11N 23W	SB	12,523	Vaqueros	early Miocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (-API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vaqueros	4,030	750	early Miocene	Vaqueros	33	2,090	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	2,159	0	1,168	1927	3	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

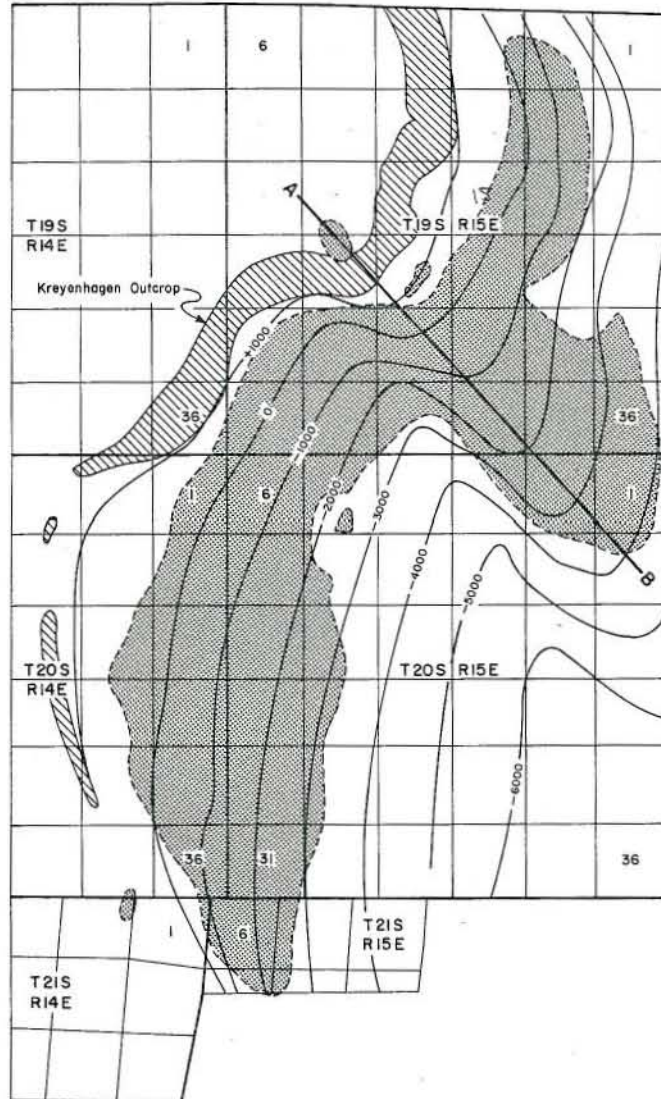
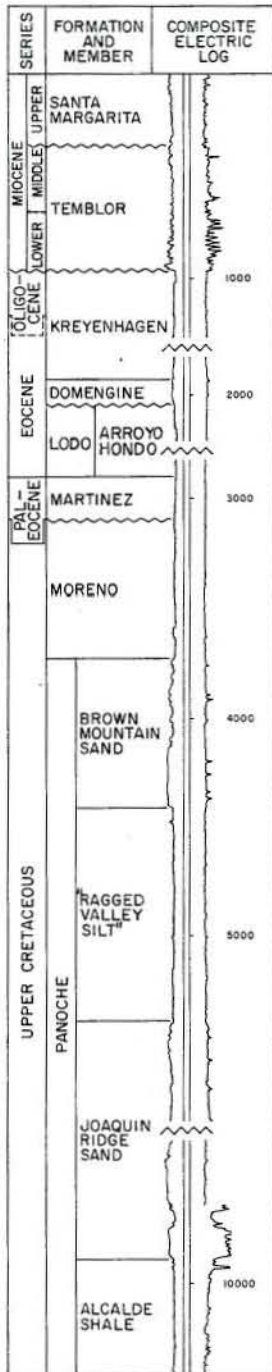
CURRENT CASING PROGRAM: 11 3/4" cem. 2,000'; 7 5/8" cem. through zone.

METHOD OF WASTE DISPOSAL:

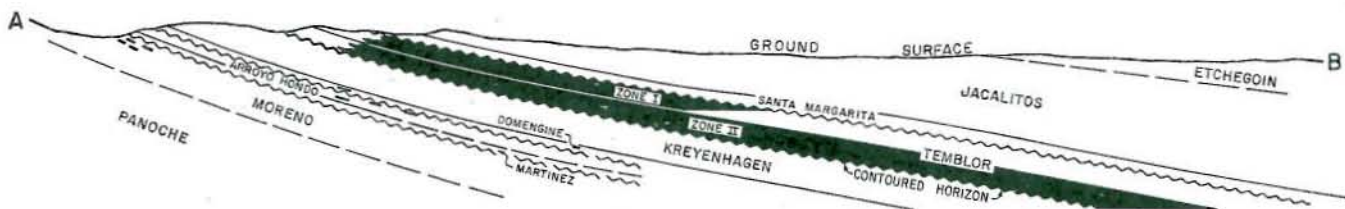
REMARKS: Separated from Midway-Sunset field on Jan. 1, 1958. Field abandoned December 1945.

REFERENCES: Pack, R.W., The Sunset-Midway Oil Field California: U.S. Geol. Survey Professional Paper 116 (1920).

# COALINGA OIL FIELD



CONTOURS ON TOP OF KREYENHAGEN





# CALIFORNIA DIVISION OF OIL AND GAS

COALINGA OIL FIELD

Fresno County

LOCATION: Immediately north and west of Coalinga

TYPE OF TRAP: Asymmetrical anticline; stratigraphic variations and tar seals on asymmetrical anticline

ELEVATION: 600 - 1,200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin - Temblor (Westside)	The Confidence Oil Co. No. 2	Same as present	31 19S 15E	MD	20	N.A.	1900
Temblor (Eastside)	Standard Oil Co. of Calif. No. 1	Independence Oil Co.	28 19S 15E	MD	N.A.	N.A.	1900
Eocene	E.B. Hougham, Opr. No. 1	White Creek Oil Co. No. 1	2 21S 14E	MD	N.A.	N.A.	1912
Cretaceous (Oil City)	Coast Range Oil Co.	Same as present	20 19S 15E	MD	10	N.A.	1890

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. 363X	Same	Apr 1952	15 19S 15E	MD	10,414	Alcalde	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin - Temblor (Westside)	500 - 3,500	200	Pliocene, m & e Miocene	Etchegoin - Temblor	11 - 18	175	None
Temblor (Eastside)	700 - 4,600	250	m & e Miocene	Temblor	12 - 30	80	None
Eocene	0 - 2,500	100	Eocene - Paleoc	Domengine, Lodo & Martinez	29	N.A.	II
Cretaceous (Oil City)	700	140	Lt Cretaceous	Moreno	33 - 40	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
7,698,511	507,393	39,634,017	19,258	2,221	623,351,173	225,499,711	19,500,000	1912	4,885	4,568	20,216

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1953	150,382,808	146
Steam flood	1961	31,859,286	88
Steam cyclic	1962	33,986,670	1,104

SPACING ACT: Does not apply

BASE OF FRESH WATER: 0 - 1,300

CURRENT CASING PROGRAM: Temblor (Eastside): 7" cem 800 - 4,300; 5 1/2" liner landed through zone. Temblor (Westside): 7" cem 500 - 2,500. Eocene: 7" cem 600 - 1,000.

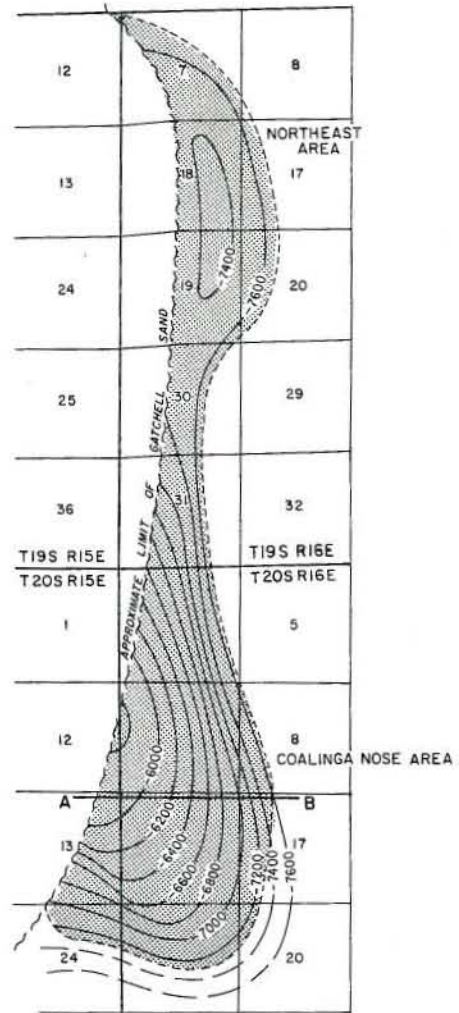
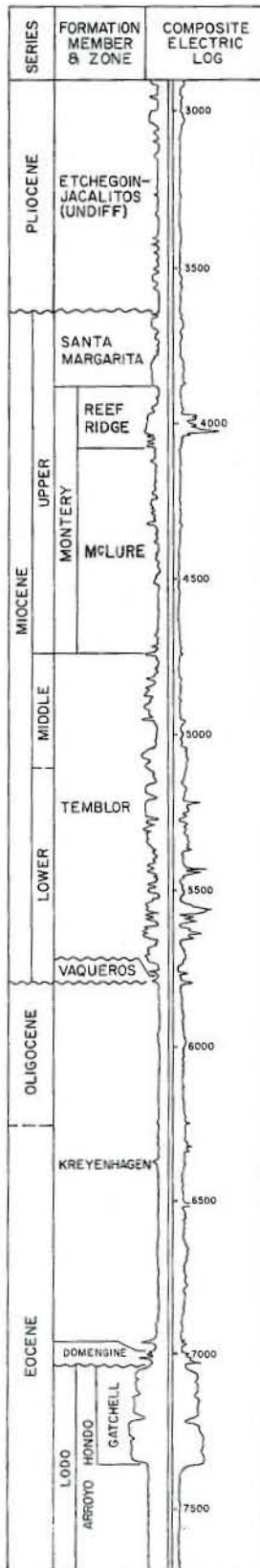
METHOD OF WASTE DISPOSAL: Eight disposal wells (9,931,700 bbl. in 1972) and numerous evaporative sumps.

REMARKS: Major development started after the discovery of the Temblor pools in 1900. Much of the early drilling in the Eastside and Oil City areas was near the numerous oil seeps and tar sand outcrops.

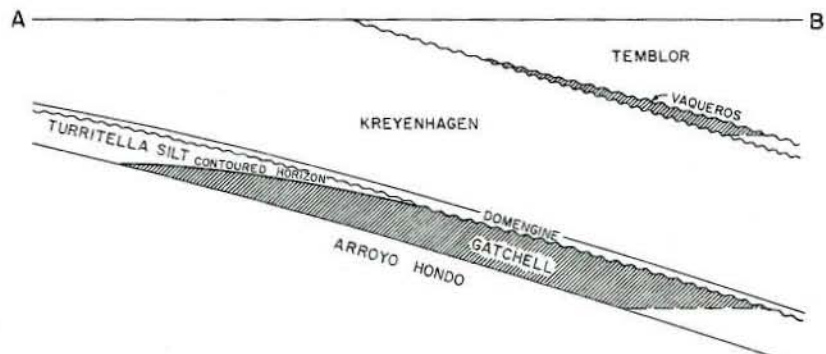
REFERENCES: Arnold, Ralph and Robert Anderson, The Geology and Oil Resources of the Coalinga District, Calif.: U.S. Geol. Survey Bull. 398 (1910). Kaplow, E.J., Coalinga Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 31, No. 2 (1945).



# EAST COALINGA EXTENSION OIL FIELD



CONTOURS ON TOP OF GATCHELL SAND



## CALIFORNIA DIVISION OF OIL AND GAS

COALINGA, EAST, EXTENSION OIL FIELD

Fresno County

LOCATION: 7 miles northeast of Coalinga

TYPE OF TRAP: See areas

ELEVATION: 650 - 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Gatchell	Union Oil Co. of Calif. Opr. No. 1	Petroleum Securities Co. "Gatchell" 2	18 20S 16E	MD	4,776	N.A.	Jul 1938

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Hyde" 54	Same	Jul 1966	6 19S 16E	MD	9,654	Lodo	Eocene

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,006,639	2,480,045	11,715,782	2,695	78	461,454,045	288,377,899	24,727,863	1944	299	270	4,550

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: For most of the Gatchell zone's productive life, it has been operated as two separate pools, the Coalinga Nose and the Northeast Extension, because the structural saddle dividing the two areas was flooded early in the life of the field. The Northeast Area has been shut-in since 1966.

REFERENCES: Kaplow, E. J., East Coalinga Extension Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 28, No. 1 (1942)

# CALIFORNIA DIVISION OF OIL AND GAS

COALINGA NOSE AREA

COALINGA, EAST, EXTENSION OIL FIELD

Fresno County

LOCATION: See map sheet of East Coalinga Extension Oil Field

TYPE OF TRAP: Permeability trap on Coalinga anticline.

ELEVATION: 700 - 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vaqueros	Union Oil Co. of Calif., Opr. No. 86V	Los Nietos Co., Opr. No. 86V	18 20S 16E	MD	1,068	552	May 1952
Gatchell	Union Oil Co. of Calif., Opr. No. 1	Petroleum Securities Co. "Gatchell" 2	18 20S 16E	MD	4,776	--	Jul 1938

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Lloyd A. Harnish, Opr. "Guijarral Service Company" 6S-30F	Same	Mar 1955	30 20S 16E	MD	9,653	Lodo	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vaqueros	6,400	25	early Miocene	Vaqueros	34 - 38	825	IV
Gatchell	7,400-8,000	0-625	Eocene	Lodo	24 - 33	25	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,006,639	2,480,045	11,715,782	2,695	78	425,394,476	176,962,274	20,798,072	1944	213	194	3,160

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Gas injection	1950	214,970,744	22

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

CURRENT CASING PROGRAM: 10 3/4" cem 600; 7" cem above the zone; 5 1/2" liner landed through the zone.

METHOD OF WASTE DISPOSAL: Water disposal is by means of evaporation and percolation ponds.

REMARKS: From 1957 to 1964, 14,904,447 bbls. of water were injected as part of a water flood. The Coalinga Nose Area has been operated under court order since 1953 as the result of a gas wastage suit. The Vaqueros pool was abandoned during 1961.

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

NORTHEAST AREA

COALINGA, EAST, EXTENSION OIL FIELD

Fresno County

LOCATION: See map sheet of East Coalinga Extension Oil Field

TYPE OF TRAP: Permeability barrier on the Coalinga Anticline

ELEVATION: 650

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Gatchell	Standard Oil of Calif., Opr. "SPL" 7-17	Amerada Petroleum Corp. "SPL" 7-17	17 19S 16E	MD	4,230	14,200	Apr 1939

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Hyde" 54	Same	Jul 1966	6 19S 16E	MD	9,654	Lodo	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Gatchell	8,000	210	Eocene	Lodo	32	30	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	36,059,569	111,415,625	4,085,325	1943	86	76	1,390

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

CURRENT CASING PROGRAM: 13 3/8" or 11 3/4" cem 600; 7" cem above the zone; 5" liner landed through the zone.

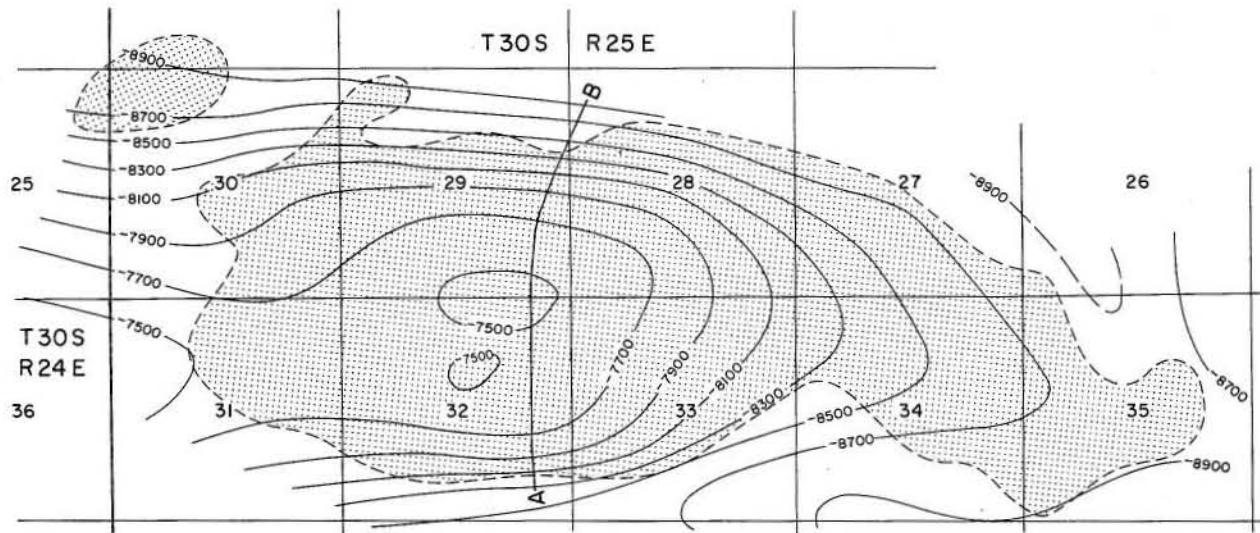
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: This area was abandoned during 1972, except for two wells that are used for observation. The cumulative gas injected was 36,761,693 Mcf; the cumulative water injected was 250,433 bbls. Maximum number of injection wells was three, two gas and one water.

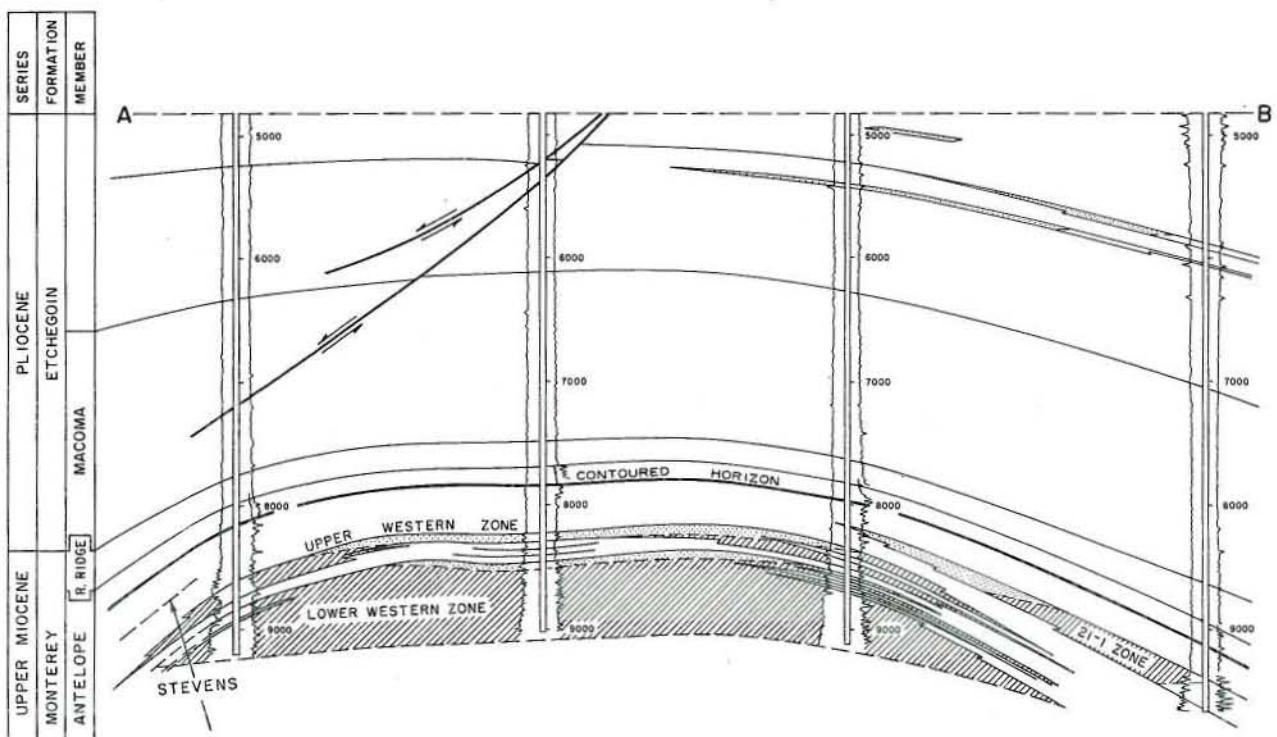
REFERENCES:



# NORTH COLES LEVEE OIL FIELD



CONTOURS ON N ELECTRIC LOG MARKER





# CALIFORNIA DIVISION OF OIL AND GAS

COLES LEVEE, NORTH, OIL FIELD

Kern County

LOCATION: 13 miles northeast of Taft

TYPE OF TRAP: Anticline with lithofacies variations

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Gas Zone	Atlantic Richfield Co. "K.C.L." 1-28	Richfield Oil Corp. "K.C.L." 1-G-28	28 30S 25E	MD	0	11,800	Oct 1941
Stevens	Atlantic Richfield Co. "Coles Levee A" 32-32	Richfield Oil Corp. "Tupman-Western" 1	32 30S 25E	MD	805	18,000	Nov 1938
Point of Rocks (abd)	Atlantic Richfield Co. "Coles Levee A" 67-29	Richfield Oil Corp. "Coles Levee A" 67-29	29 30S 25E	MD	61	1,750	Dec 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "Coles Levee A" 67-29	Richfield Oil Corp. "Coles Levee A" 67-29	Oct 1952	29 30S 25E	MD	17,895	Basement	Jurassic

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Gas Zone	5,325	35	Pliocene	Etchegoin	1,020	610	III
Stevens	8,000 - 9,650	45 - 230	1t Miocene	Monterey	33 - 49	1,290	IV
Point of Rocks (abd)	17,500	350	1t Eocene	Kreyenhagen	57	350	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
881,700	6,773,376	2,364,504	3,580	123	138,311,394	229,110,762	6,235,768	1949	222	200	3,700

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1954	123,557,467	73

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200

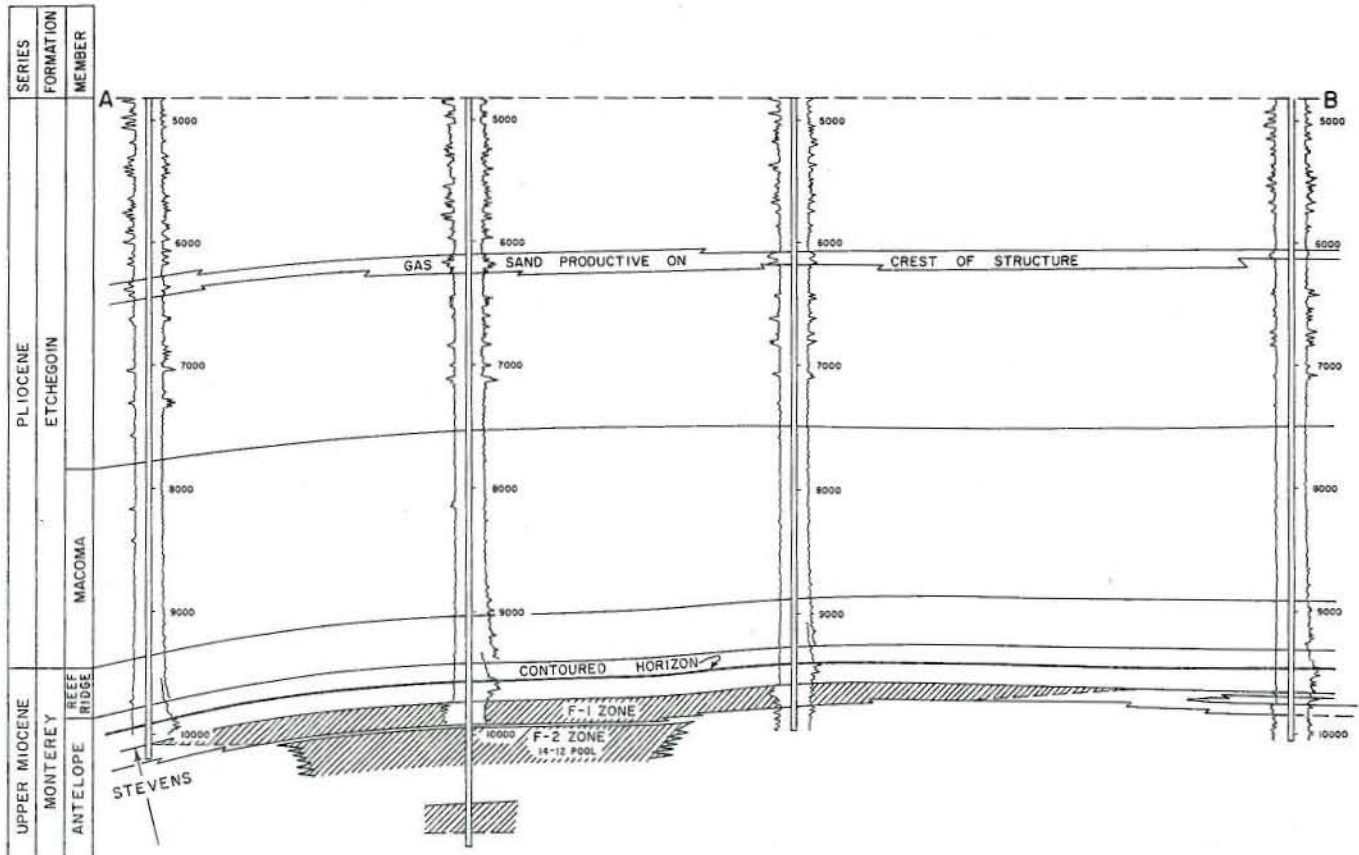
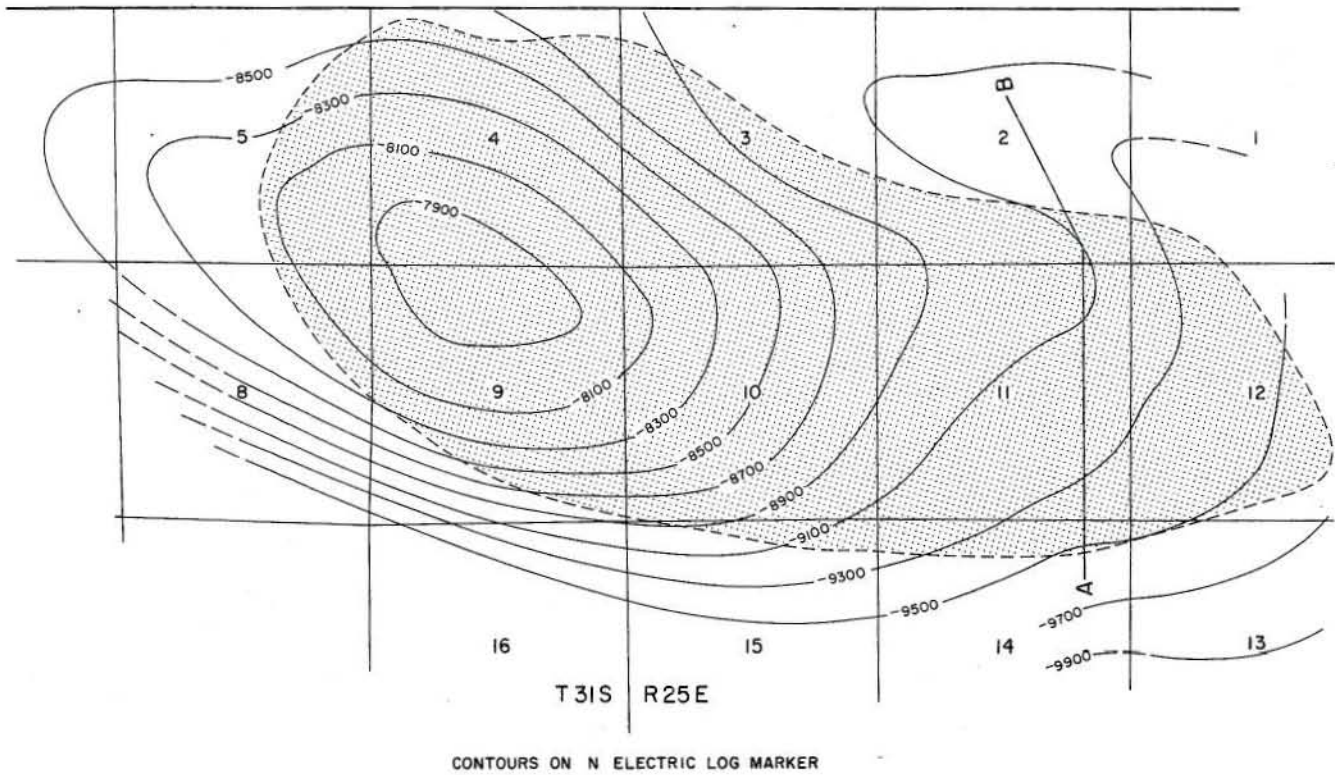
CURRENT CASING PROGRAM: Stevens: 11 3/4" cem. 1,100; 7" cem. above zone; 5 1/2" liner landed through zone. Dry gas zone: 10 3/4" cem. 1,100; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water is used in water flood operations.

REMARKS: 1972 dry gas production 63,986 Mcf from one producing well; cumulative dry gas production 11,099,305 Mcf; 4 wells were drilled for dry gas and 3 were completed; 1972 dry gas proved acreage 80; dry gas peak production 1,829,786 Mcf in 1945. A total of 861,279,000 Mcf of gas was injected into a maximum of 8 wells in a pressure maintenance project begun in 1942 and terminated in 1971.

REFERENCES: Hardoin, J.L., North Coles Levee Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).

# SOUTH COLES LEVEE OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

COLES LEVEE, SOUTH, OIL FIELD

Kern County

LOCATION: 12 miles northeast of Taft

TYPE OF TRAP: Anticline with lithofacies variations

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
4th Mya Gas Zone (abd)	Marathon Oil Co. "KCL-F" 71-10	The Ohio Oil Co. "KCL-F" 71-10	10 31S 25E	MD	0	3,380	Aug 1957
Etchegoin Gas Zone	Tenneco West Inc., No. 9	Standard Oil Co. of Calif. "KCL Lease 20" 9	9 31S 25E	MD	0	5,160	May 1941
Stevens	Marathon Oil Co., Oper. "SCLU" 74-10	The Ohio Oil Co. "KCL-F" 1	10 31S 25E	MD	885	5,600	Nov 1938

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL Lease 20" 13	Same	Jul 1943	S 31S 25E	MD	16,246	Media	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
4th Mya Gas Zone (abd)	4,200	200	Pliocene	San Joaquin	1,030	N.A.	III
Etchegoin Gas Zone	5,120	35	Pliocene	Etchegoin	1,020	1,160	III
Stevens	9,600 - 9,900	50 - 300	early Miocene	Monterey	30 - 56	1,240	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
609,916	8,694,393	116,556	3,270	52	49,075,191	159,140,427	2,601,030	1947	93	86	3,340

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Gas injection for pressure maintenance	1945	589,582,036	16

SPACING ACT: Applies

BASE OF FRESH WATER: 1,700

CURRENT CASING PROGRAM: 11 3/4" cem. 1,100; 7" cem. above zone; 5 1/2" liner landed through zone.

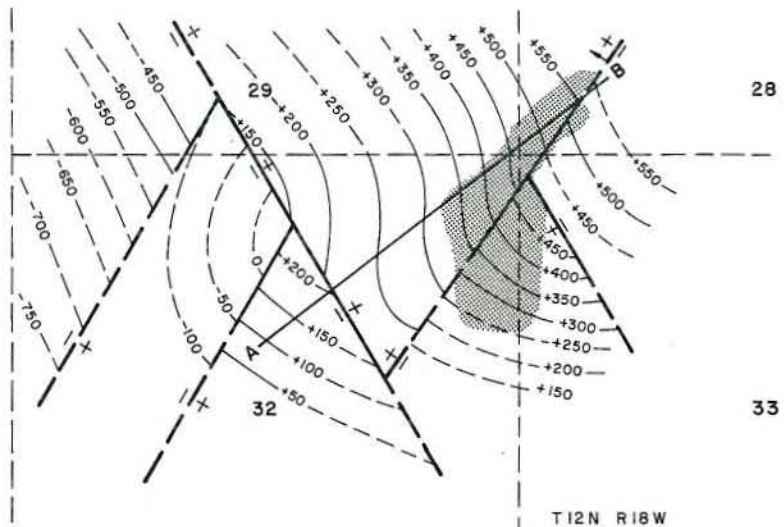
METHOD OF WASTE DISPOSAL: All waste water is injected into two water disposal wells.

REMARKS: 1972 dry gas production 614,303 Mcf from one producing well; cumulative dry gas production 35,830,856; peak production (1943) 3,556,466 Mcf; 15 wells were drilled for dry gas and 6 wells were completed.

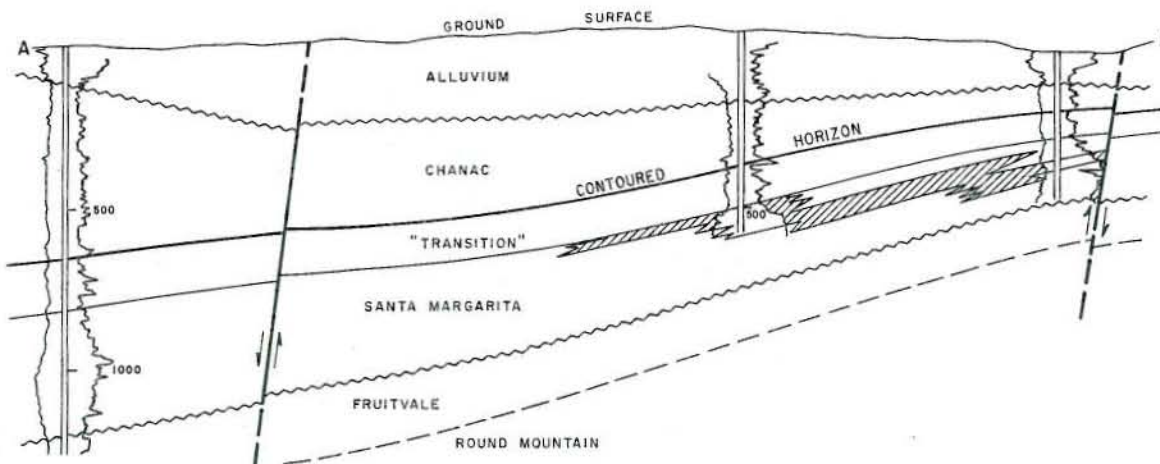
REFERENCES: Bosch, M.W., South Coles Levee Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).



# COMANCHE POINT OIL FIELD



CONTOURS ON TOP OF "TRANSITION"  
SCALE 1" = 2000'





## CALIFORNIA DIVISION OF OIL AND GAS

COMANCHE POINT OIL FIELD

Kern County

LOCATION: 20 miles southeast of Bakersfield

TYPE OF TRAP: Faulted anticlinal nose and variable permeability

ELEVATION: 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	Seaboard Oil & Gas Co. "Gould" 1	Horace Steele and L.C. Gould "Gould" 1	32 12N 18W	SB	25	N.A.	Oct 1947

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gene Reid Exploration Co. "G.B. Finch & Associates" 1	G.B. Finch & Associates No. 1	Feb 1948	29 12N 18W	SB	4,000	Basement	Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santa Margarita	650	100	late Miocene	Santa Margarita	14	15	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,535	0	19,774	50	8	155,361	25	10,687	1951	55	18	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 750

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

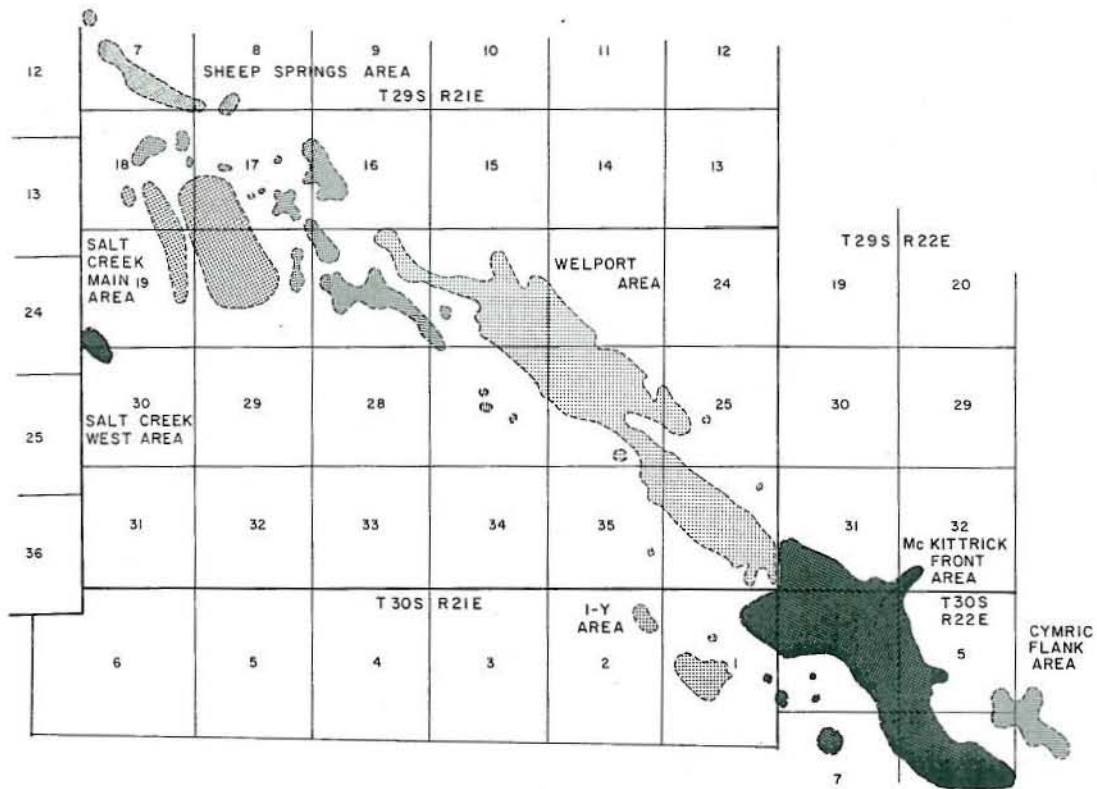
METHOD OF WASTE DISPOSAL: After January 1, 1973, disposal of produced water into unlined sumps will not be permitted.

REMARKS: Boron content of produced water ranges from 1.6 to 2.9 ppm.

REFERENCES: Kasline, F.E., Tejon Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 39, No. 1 (1953).

# CYMRIC OIL FIELD

## Index Map



## CALIFORNIA DIVISION OF OIL AND GAS

CYMRIC OIL FIELD

Kern County

LOCATION: 21 miles northwest of Taft

TYPE OF TRAP: See areas

ELEVATION: 700 - 1,350

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare	Sun Oil Co. "Old" 1	Nacirema Oil Co. No. 1	6 30S 22E	MD	50	N.A.	Nov 1909

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co., Opr. "Cymric Unit" 1	The Superior Oil Co. "Cymric Unit" 1	Feb 1953	22 29S 21E	MD	12,022	Point of Rocks	late Eo

## PRODUCING ZONES (See Areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,442,918	1,925,361	25,593,750	4,340	726	125,301,572	100,582,416	9,165,571	1948	1,464	1,197	4,550

## STIMULATION DATA (Jan. 1, 1973) (See Areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

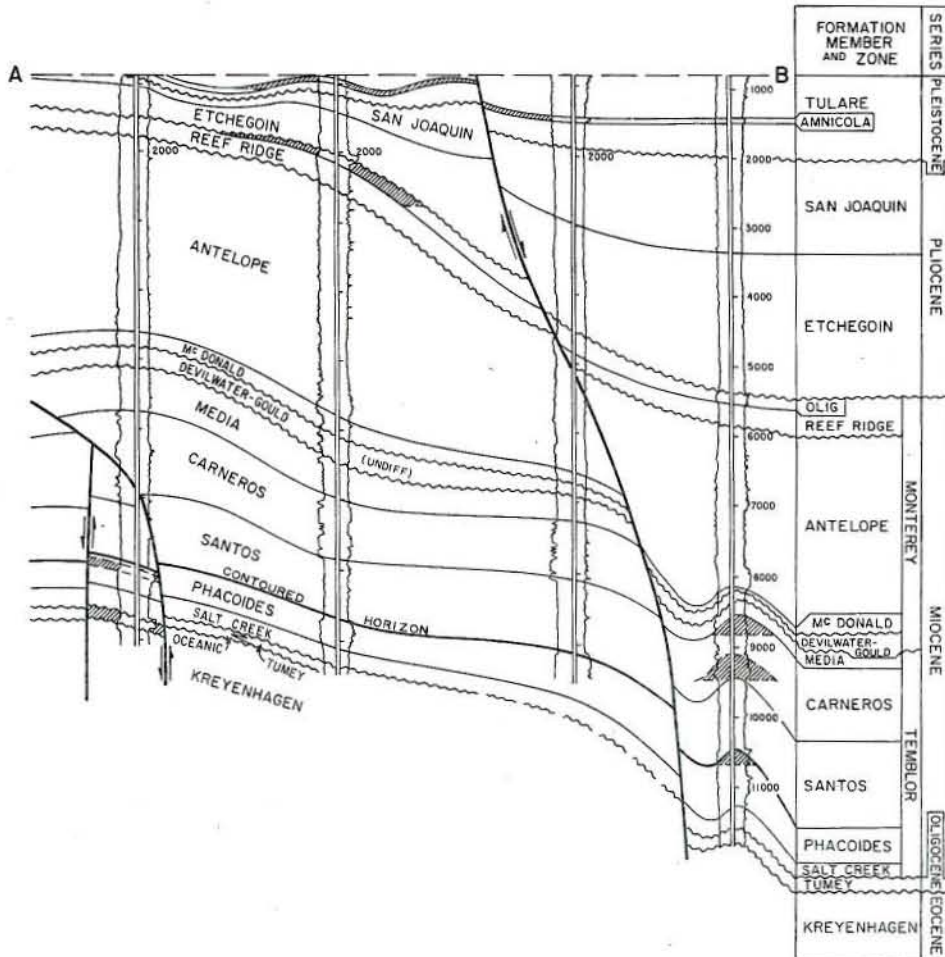
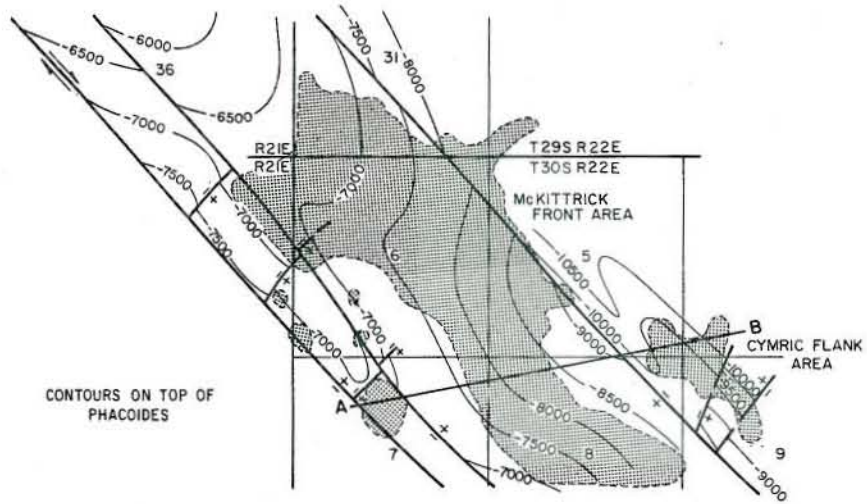
CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: This field was administratively separated from McKittrick Oil Field on January 1, 1947.

REFERENCES: Anderson, D.N. and P.E. Land, Cymric Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 55, No. 1 (1969).

# **CYMRIC OIL FIELD** Cymric Flank Area and McKittrick Flank Area





# CALIFORNIA DIVISION OF OIL AND GAS

CYMRIC FLANK AREA

CYMRIC OIL FIELD

Kern County

LOCATION: See index map of Cymric Oil Field

TYPE OF TRAP: Anticline with major faulting

ELEVATION: 750

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Carneros	Standard Oil Co. of Calif. No. 512	Same as present	9 30S 22E	MD	1,188	1,697	Mar 1966
Phacoides	Standard Oil Co. of Calif. No. 534	Same as present	9 30S 22E	MD	0	1,262	Aug 1967

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. No. 512	Same	Dec 1966	9 30S 22E	MD	11,847	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Carneros	8,600	250	early Miocene	Temblor	33 - 39	360	IV
Phacoides	10,145	50	early Miocene	Temblor	33	560	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
61,135	155,060	15,245	150	4	1,341,606	5,362,412	584,473	1968	11	8	150

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 9 5/8" cem. 1,600; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

REFERENCES: Hardoin, J.L., Cymric Flank Area of Cymric Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 2 (1968).

# CALIFORNIA DIVISION OF OIL AND GAS

McKITTRICK FRONT AREA

CYMRIC OIL FIELD

Kern County

LOCATION: See index map of Cymric Oil Field

TYPE OF TRAP: Faulted anticlines

ELEVATION: 850

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare (Ammicola)	Sum Oil Co. "Old" 1	Nacirema Oil Co. No. 1	6 30S 22E	MD	50	N.A.	Nov 1909
Olig (Reef Ridge)	Mobil Oil Corp. "McKittrick Fee" 1	Standard Oil Co. "McKittrick" 2	8 30S 22E	MD	50	N.A.	Dec 1917
Carneros	Standard Oil Co. of Calif. No. 536	Standard Oil Co. of Calif. No. 536	6 30S 22E	MD	907	1,195	Aug 1965
Phacoides	Same as above	Same as above	6 30S 22E	MD	906	825	Aug 1965
Oceanic	Same as above	Same as above	6 30S 22E	MD	890	540	Aug 1965

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "McKittrick Fee" S-2	Standard Oil Co. of Calif. "Franco Western" S-2	Nov 1969	6 30S 22E	MD	9,510	Tuney	Oligocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tulare (Ammicola)	1,200	125	Pleistocene	Tulare	13	100	None
Olig (Reef Ridge)	2,250	150	late Miocene	Monterey	12 - 20	1,050	None
Carneros	5,560	65	early Miocene	Temblor	33	1,250	III
Phacoides	7,870	175	early Miocene	Temblor	33	700	IV
Oceanic	8,570	140	Oligocene	Tuney	31 - 52	600	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,671,294	776,944	13,503,169	1,360	290	34,537,558	13,456,265	3,277,440	1966	486	447	1,380

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1963	10,463,199	287

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

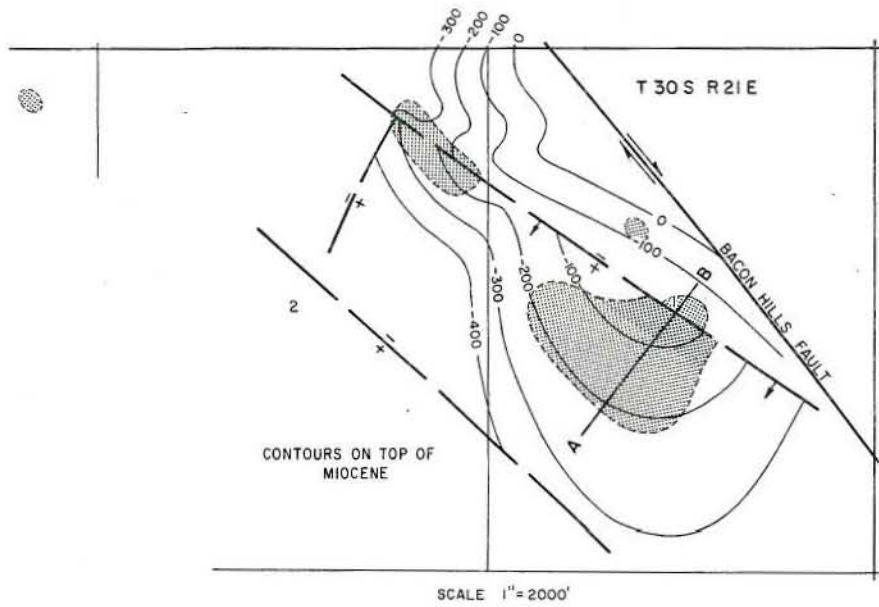
CURRENT CASING PROGRAM: For Tulare or Reef Ridge: 8 5/8" cem. above zone, 6 5/8" liner landed through zone. For Carneros and deeper: 11 3/4" cem. 1,050; 7" cem. through zones.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

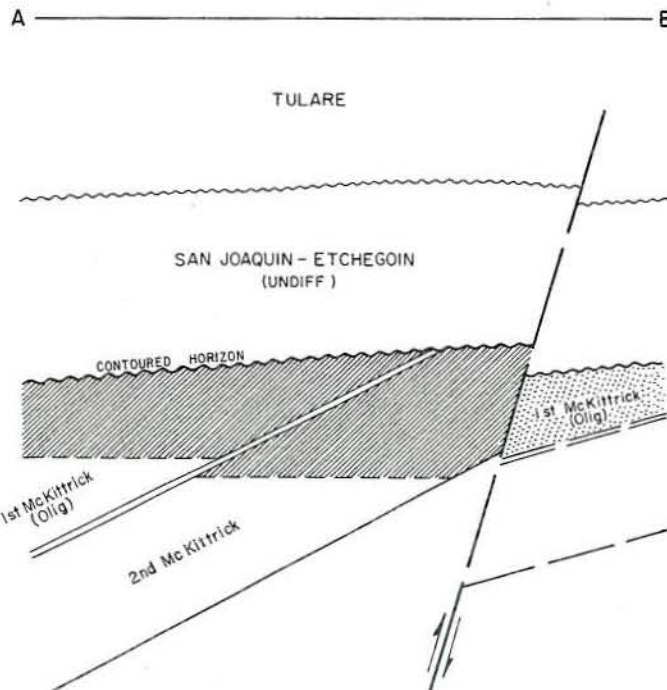
REMARKS: A water flood project was started in the Ammicola sand of McKittrick Front area in December 1966 and terminated the following year after 247,715 bbls. of water was injected.

REFERENCES: Weddle, J.R., Carneros, Phacoides, and Oceanic Pools, McKittrick Front Area of Cymric Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 2 (1966).

# CYMRIC OIL FIELD I-Y Area



SERIES	FORMATION MEMBER & ZONE	TYPICAL ELECTRIC LOG
PLEISTOCENE	TULARE	
	SAN JOAQUIN	
	ETCHEGOIN	
PLIOCENE	MONTEREY	
	REEF RIDGE	
	1st McKittrick (Olig)	
U. MIOCENE	2nd McKittrick	
	1st McKittrick (Olig)	



# CALIFORNIA DIVISION OF OIL AND GAS

1-Y AREA

CYMRIC OIL FIELD

Kern County

LOCATION: See index map of Cymric Oil Field

TYPE OF TRAP: Faulted anticlinal nose

ELEVATION: 950

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
1st McKittrick (Olig)	Estate of Frank Rice Short "Williams" 1	The Hall-Baker Co. "Williams" 1	2 30S 21E	MD	0	1,750	Feb 1939
2nd McKittrick	Public Petroleum "Williams" 3	Same as present	2 30S 21E	MD	0	700	Apr 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "F&B-CWOOD" 572	Same	Dec 1965	3 30S 21E	MD	11,795	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
1st McKittrick (Olig)	1,100	100	late Miocene	Monterey	14	500	III
2nd McKittrick	1,230	210	late Miocene	Monterey	14	500	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
11,577	292,156	350,642	90	9	180,821	4,476,256	41,241	1968	31	18	110

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1967	206,470	13

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 10 3/4" cem. 200; 7" cem. above zone; 5 1/2" liner landed through zone.

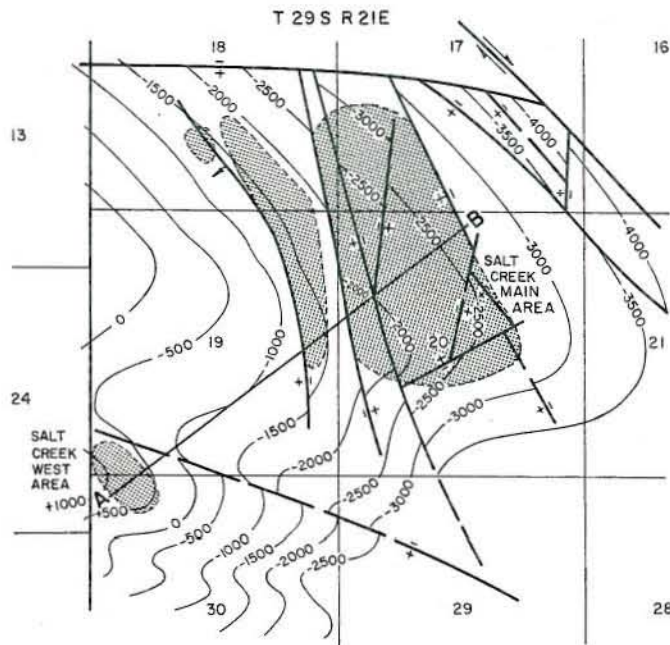
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: The first reported oil production was in 1953. The produced gas has a heat value of 960 btu.

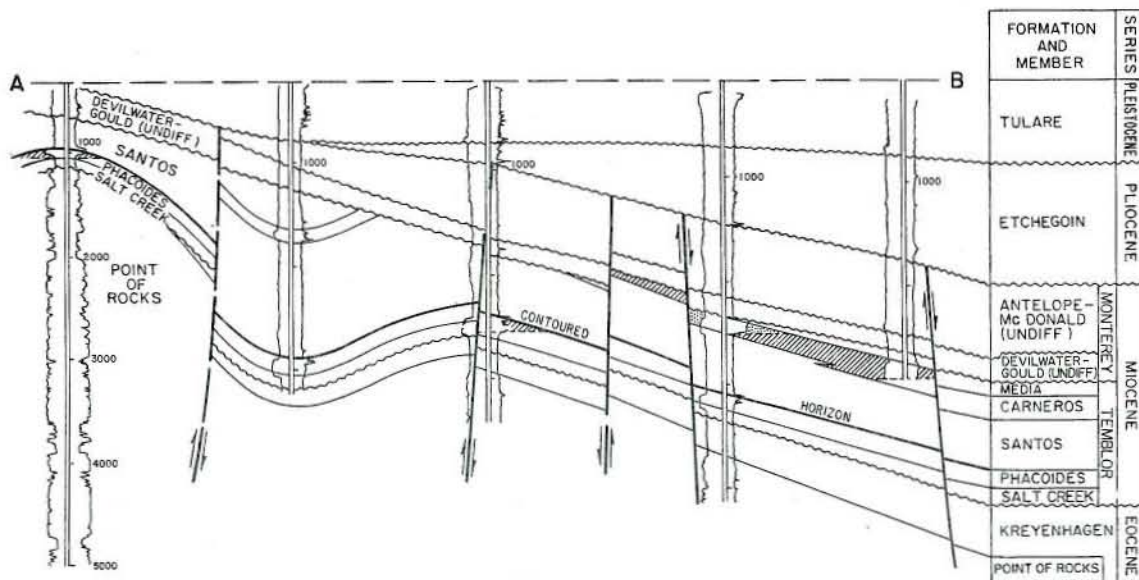
REFERENCES:



# **CYMRIC OIL FIELD** Salt Creek Main Area and Salt Creek West Area



CONTOURS ON TOP OF PHACOIDES



# CALIFORNIA DIVISION OF OIL AND GAS

SALT CREEK MAIN AREA

CYMRIC OIL FIELD

Kern County

LOCATION: See index map of Cymric Oil Field

TYPE OF TRAP: Faulted anticlinal nose

ELEVATION: 950

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin	Tesoro Petroleum Corp. "Temblor" 1	Independent Exploration Co. "Temblor" 1	17 29S 21E	MD	23	N.A.	Jan 1946
Carneros	Tesoro Petroleum Corp., Opr. "Temblor" 2	Independent Exploration Co. "Temblor" 2	17 29S 21E	MD	430	45	Mar 1946
Phacoides	Carneros Oil Co. "Anderson-Community" 3	Same as present	19 29S 21E	MD	96	N.A.	Jun 1949

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tesoro Petroleum Corp., Opr. "R.H. Anderson Two" 1	Texaco Inc. "T-U Anderson" 1	Jan 1966	20 29S 21E	MD	4,200	Point of Rocks	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin	650	60	Pliocene	Etchegoin	13	1,070	None
Carneros	1,500 - 2,400	150	early Miocene	Temblor	17	700 - 1,090	III
Phacoides	2,200	150	early Miocene	Temblor	22	1,370	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
377,270	36,859	508,726	450	56	25,308,664	4,820,031	2,314,275	1947	146	94	480

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Gas injection for pressure maintenance	1948	20,216,109	7

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 10 3/4" cem. 250; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

SALT CREEK WEST AREA

CYMRIC OIL FIELD

Kern County

LOCATION: See index map of Cymric Oil Field

TYPE OF TRAP: Faulted anticline

ELEVATION: 1,350

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Phacoides	Edco Oil Co. "Anderson" 2	Ferguson & Bosworth "Anderson" 2	19 29S 21E	MD	20	N.A.	Jul 1951

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Miller & York "Merritt" 1	Same	Apr 1947	29 29S 21E	MD	5,005	Phacoides	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Phacoides	500	100	early Miocene	Temblor	22	1,500	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
2,300	0	2,208	30	5	212,217	0	39,375	1953	37	9	30

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

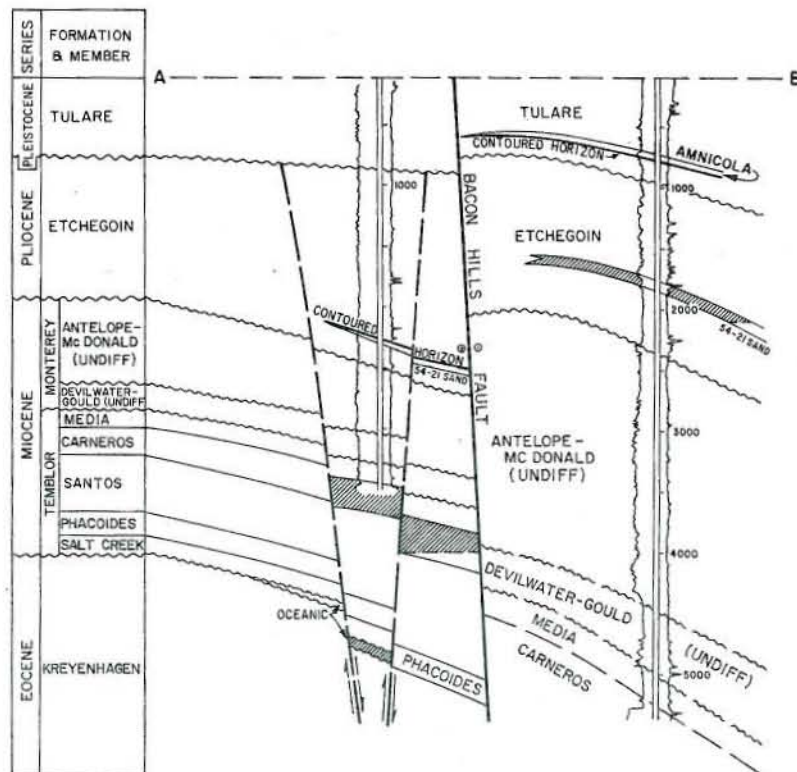
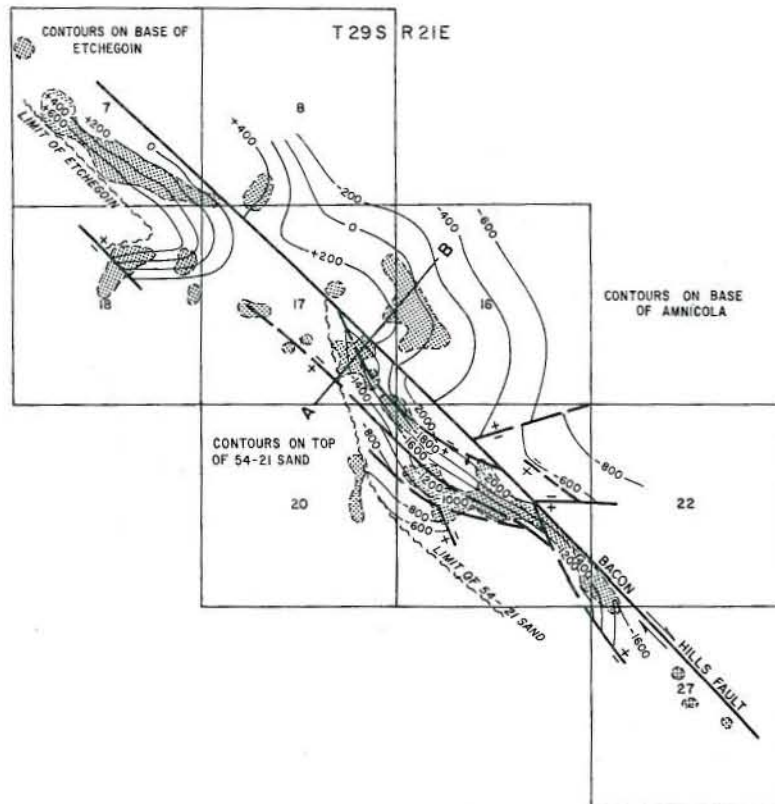
CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

REFERENCES: Borkovich, G.J., West Salt Creek Area of Cymric Oil Field; Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 2 (1959).

# CYMRIC OIL FIELD Sheep Springs Area





# CALIFORNIA DIVISION OF OIL AND GAS

SHEEP SPRINGS AREA

CYMRIC OIL FIELD

Kern County

LOCATION: See index map of Cymric Oil Field

TYPE OF TRAP: Two anticlinal noses; sand pinchout on the flank of a faulted anticline

ELEVATION: 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin (54-21)	Henry Quandt "Kendon" 1	Ozena Oil Co. "Kendon" 1	27 29S 21E	MD	15	N.A.	Nov 1929
Carneros	Killingsworth Limited Partnership #1 "Sheep Springs" 2	Rothschild-Bender Oil Operations "Sheep Springs" 2	17 29S 21E	MD	388	40	Sep 1944
Phacoides	Tesoro Petroleum Corp. "Cymric" M34	Intex Oil Co. "Cymric" 34	21 29S 21E	MD	62	1,100	Aug 1952
Oceanic	E.A. Bender, Opr. "Sheep Springs" 8	Rothschild-Bender Oil Operations "Sheep Springs" 8	17 29S 21E	MD	*0	2,000	Jul 1947

Remarks: \* During August 1947 production included oil (250 b/d oil and 2,000 to 5,000 Mcf gas).

The Oceanic discovery well blew out prior to completion; 110 lb. mud was used to kill well. After completion shut-in pressure was 2,000 psi at the surface.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Los Nietos Co. "Richardson" 77X-7	Same	Jan 1950	7 29S 21E	MD	10,129	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin (54-21)	2,450	75	Pliocene	Etchegoin	16	1,100	II
Carneros	3,400	150	early Miocene	Temblor	23	600	III
Phacoides	4,600	35	early Miocene	Temblor	33	1,300	III
Oceanic	4,700	50	Oligocene	Tumey	41	1,000	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
115,220	215,723	530,068	630	78	5,212,495	5,528,318	532,444	1948	172	114	730

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

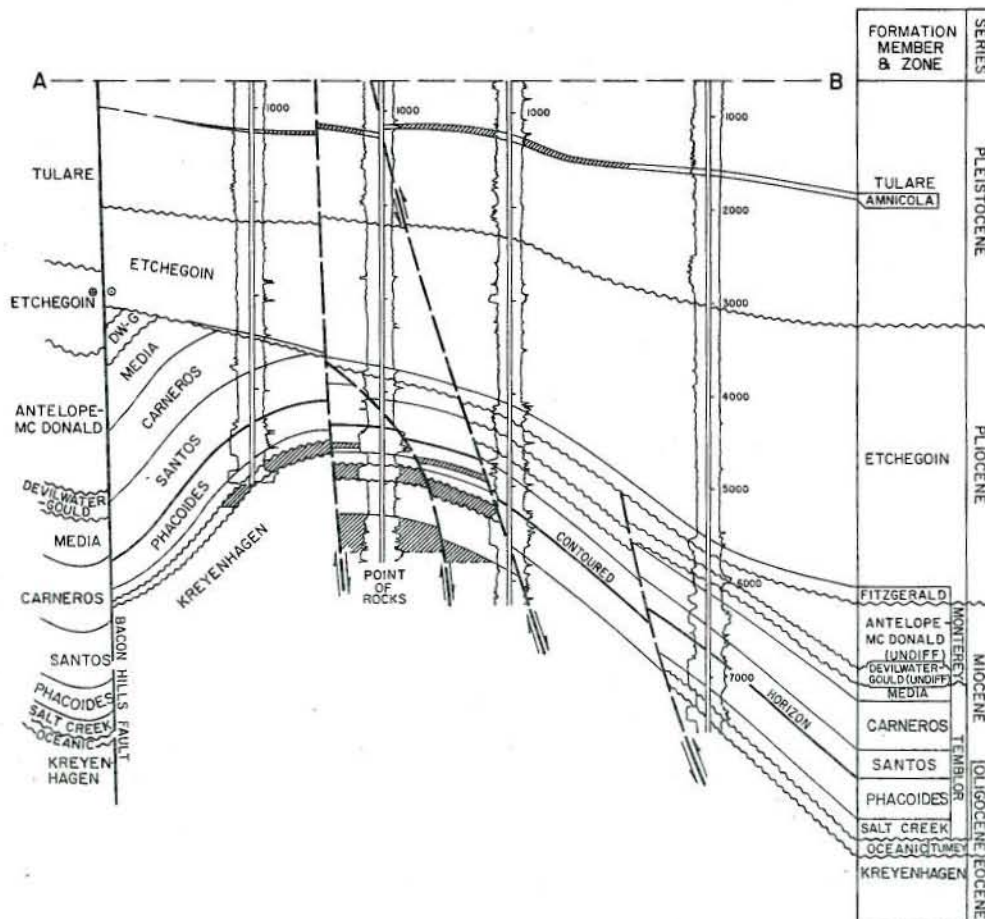
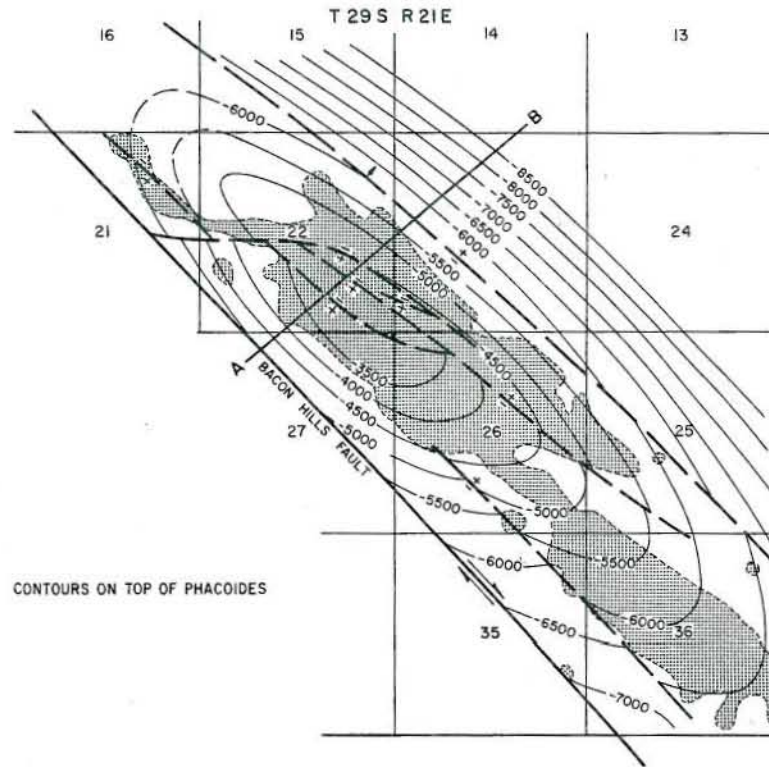
CURRENT CASING PROGRAM: Miocene & Oligocene: 10 3/4" cem. 500; 7" cem. above zone; 5 1/2" liner landed through zone. Pliocene: 10 3/4" cem. 250; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

REFERENCES:

# **CYMRIC OIL FIELD** Welpport Area



# CALIFORNIA DIVISION OF OIL AND GAS

WELPOT AREA

CYMRIC OIL FIELD

Kern County

LOCATION: See index map of Cymric Oil Field

TYPE OF TRAP: Faulted anticline

ELEVATION: 700

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare (Amnicola)	Victory Oil Co. No. 20	H.S. Williams Oil Co. No. 20	26 29S 21E	MD	106	N.A.	Apr 1916
Etchegoin	Union Oil Co. of Calif. "Anderson" 56-26	Same as present	26 29S 21E	MD	40	N.A.	Nov 1945
Carneros	Union Oil Co. of Calif. "Anderson" 45-26	Same as present	26 29S 21E	MD	883	685	Jul 1945
Agua	Standard Oil Co. of Calif. "Weston" 382	Same as present	27 29S 21E	MD	290	60	Jan 1956
Phacoides	Standard Oil Co. of Calif. "Weston" 271	Same as present	27 29S 21E	MD	312	65	Nov 1946
Oceanic	Tesoro Petroleum Corp. "Oceanic" 1	Independent Exploration Co. "Oceanic" 1	22 29S 21E	MD	956	500	Oct 1945
Point of Rocks	The Superior Oil Co. "Woody" 77-22	Same as present	22 29S 21E	MD	60	4,000	Mar 1946

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co., Opr. "Cymric Unit" 1	The Superior Oil Co. "Cymric Unit" 1	Feb 1953	22 29S 21E	MD	12,022	Point of Rocks	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tulare (Amnicola)	1,000	50 - 450	Pleistocene	Tulare	13	290	None
Etchegoin	3,400	80	Pliocene	Etchegoin	28	1,200	III
Carneros	4,150	100	early Miocene	Temblor	31	1,280	III
Agua	3,400	85	early Miocene	Temblor	31	1,250	III
Phacoides	4,300	300	early Miocene	Temblor	33	880	III
Oceanic	4,900	150	Oligocene	Tumey	37	1,100	III
Point of Rocks	5,400	300	late Eocene	Kreyenhagen	48	1,250	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,204,122	448,619	10,683,692	1,630	284	58,508,211	66,939,134	2,047,583	1961	581	507	1,670

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	5,380,864	204

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

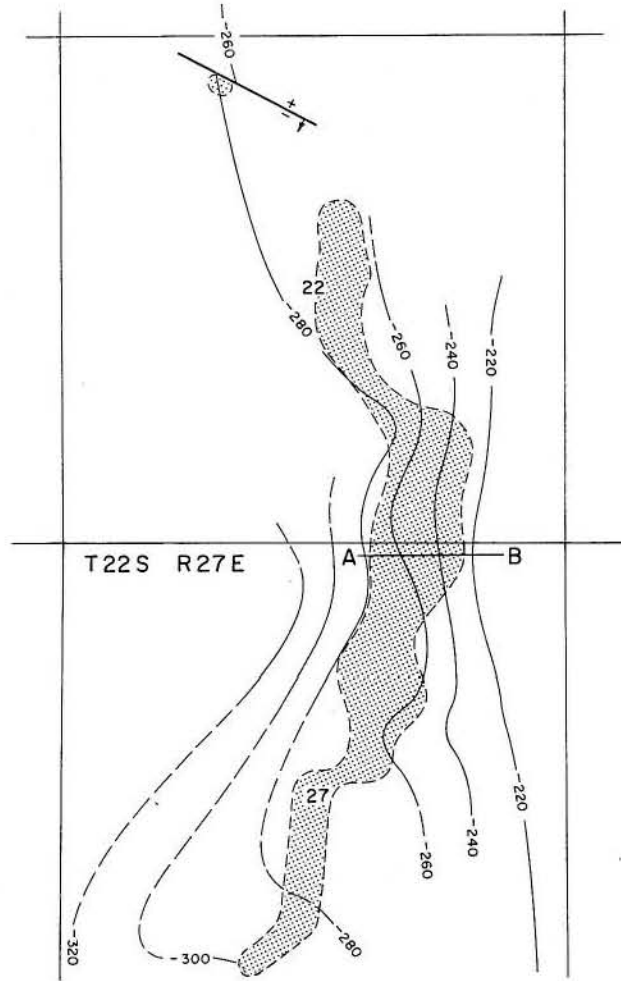
CURRENT CASING PROGRAM: Pliocene: 8 5/8" cem. above zone; 6 5/8" liner landed through zone. Miocene and deeper: 11 3/4" cem. 550; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation from unlined sumps.

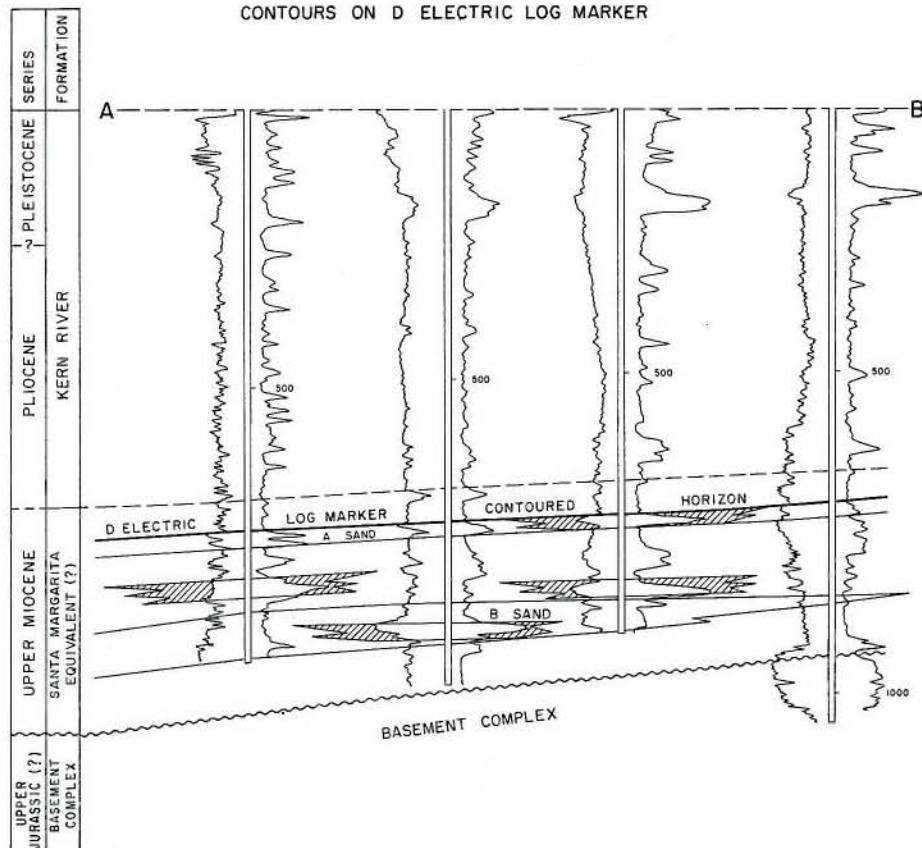
REMARKS: A pilot fire flood was started in Tulare sand (Amnicola) and discontinued in 1967. A steam flood project was started in the Tulare zone in 1968 and terminated after 65,255 bbls. of water in the form of steam was injected. Mercury is associated with oil and gas production from Phacoides, Oceanic, and Point of Rocks sands in isolated fault blocks. Production from the Etchegoin is commingled in a few wells with that from the underlying Antelope.

REFERENCES:

# DEER CREEK OIL FIELD



CONTOURS ON D ELECTRIC LOG MARKER





# CALIFORNIA DIVISION OF OIL AND GAS

DEER CREEK OIL FIELD

Tulare County

LOCATION: 6 miles south of Porterville

TYPE OF TRAP: Permeability variations on a homocline

ELEVATION: 475

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	McGreevy and Neary "Rhoads" 1	McGreevy-Neary Oil Co. "Rhoads" 1	22 22S 27E	MD	62	N.A.	Dec 1953

Remarks: In 1930 a subcommercial well was completed, in Sec. 22, by Campbell Oil Co. (now Congress Petroleum Co.). The average rate for this well, over a period of time, was 1 barrel per day of oil and 60 barrels per day of water.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Hub Oil Co. No. 1	Same	Dec 1924	27 22S 27E	MD	1,488	Granite	Lt Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu))	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santa Margarita	715	20	late Miocene	Santa Margarita	16	20 - 140	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
40,867	0	1,632,419	100	24	937,547	0	63,848	1955	65	37	125

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 700

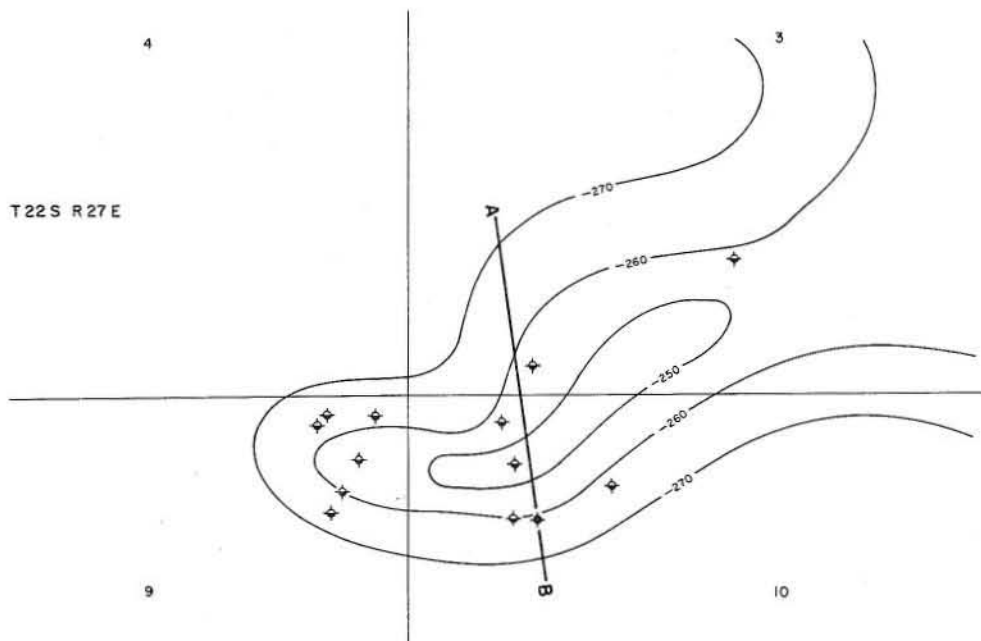
CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: After January 1, 1973, disposal of produced water into unlined sumps will not be permitted.

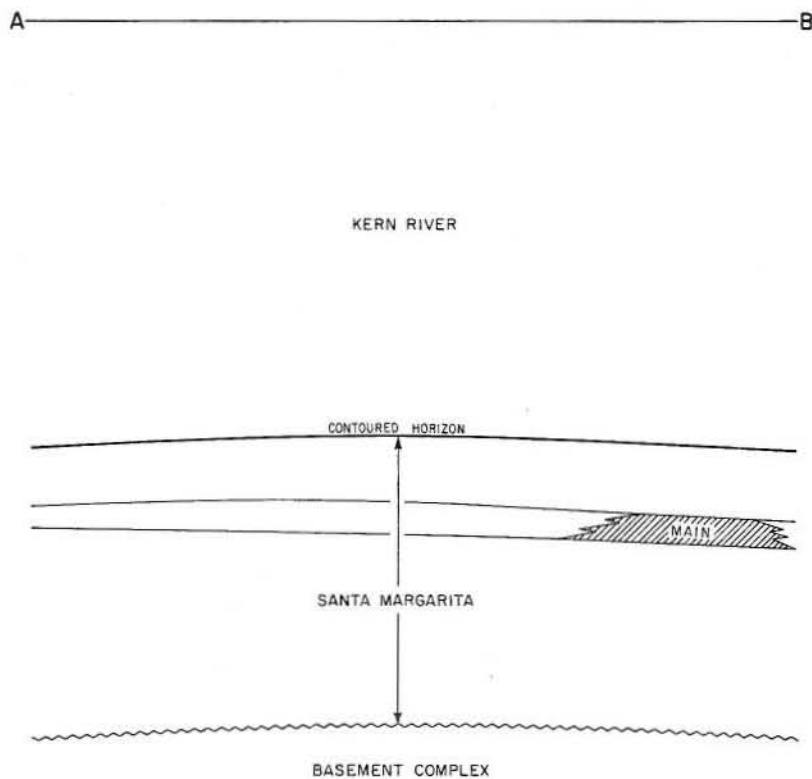
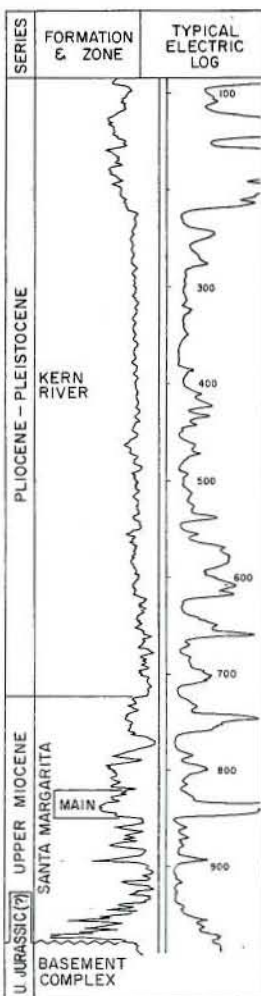
REMARKS: Boron concentration of produced water ranges from 2.4 to 5.1 ppm.

REFERENCES: Weddle, J.R., Deer Creek Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1 (1958).

# NORTH DEER CREEK OIL FIELD (Abandoned)



CONTOURS ON TOP OF SANTA MARGARITA  
SCALE 1"=1530'



# CALIFORNIA DIVISION OF OIL AND GAS

DEER CREEK, NORTH, OIL FIELD (Abandoned)

Tulare County

LOCATION: 2 miles southwest of Porterville

TYPE OF TRAP: Permeability variations on an anticline

ELEVATION: 445

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Main Sand	T. Jack Bennington, Inc. "Bastian" 10-2	Garner-Lange "Bastian" 10-2	10 22S 27E	MD	10	0	Nov 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Garner-Lange "Bastian" 10-1	Same	Jul 1961	10 22S 27E	MD	1,022	Granite	Late Jur(?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Main Sand	790	25	1t Miocene	Santa Margarita	12	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	1,243	0	540	1962	7	1	5

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 700

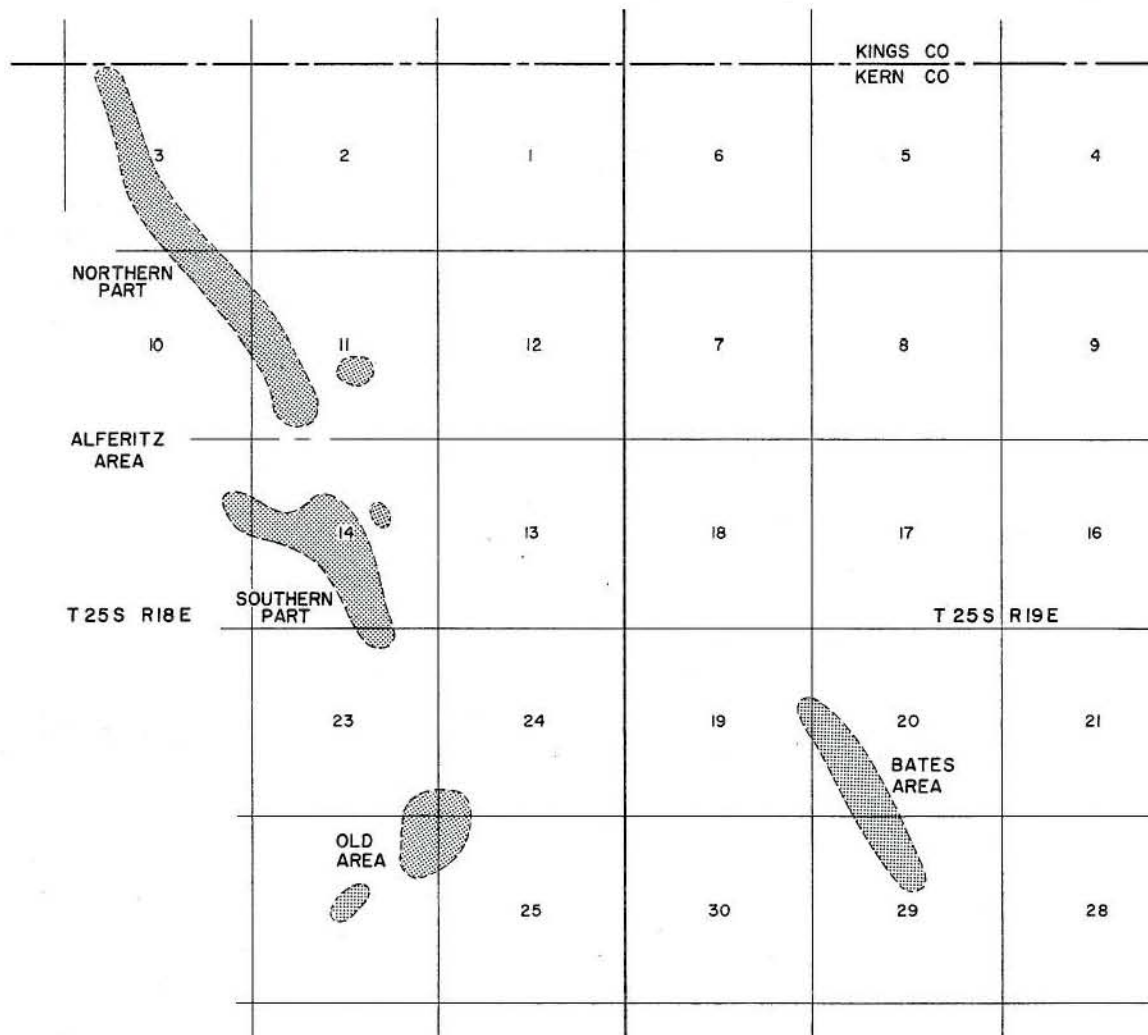
CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: The only producing well in the field was abandoned in February 1971.

REFERENCES:

# DEVILS DEN OIL FIELD INDEX MAP





## CALIFORNIA DIVISION OF OIL AND GAS

DEVILS DEN OIL FIELD

Kern County

LOCATION: 51 miles northwest of Taft

TYPE OF TRAP: See areas

ELEVATION: 600

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santos, Salt Creek, Tumey, Point of Rocks	Operator name and well number unknown	Same as present	25 25S 18E or 26	MD	N.A.	N.A.	N.A.

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gilliland Oil and Land Co. "Kalloch" 56-11	Carlton Beal and Associates "Kalloch" 56-11	Aug 1953	11 25S 18E	MD	7,801	Point of Rocks	1t Eocene

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
51,217	31,502	398,985	780	47	2,975,948	4,347,199	344,537	1956	330	203	970

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

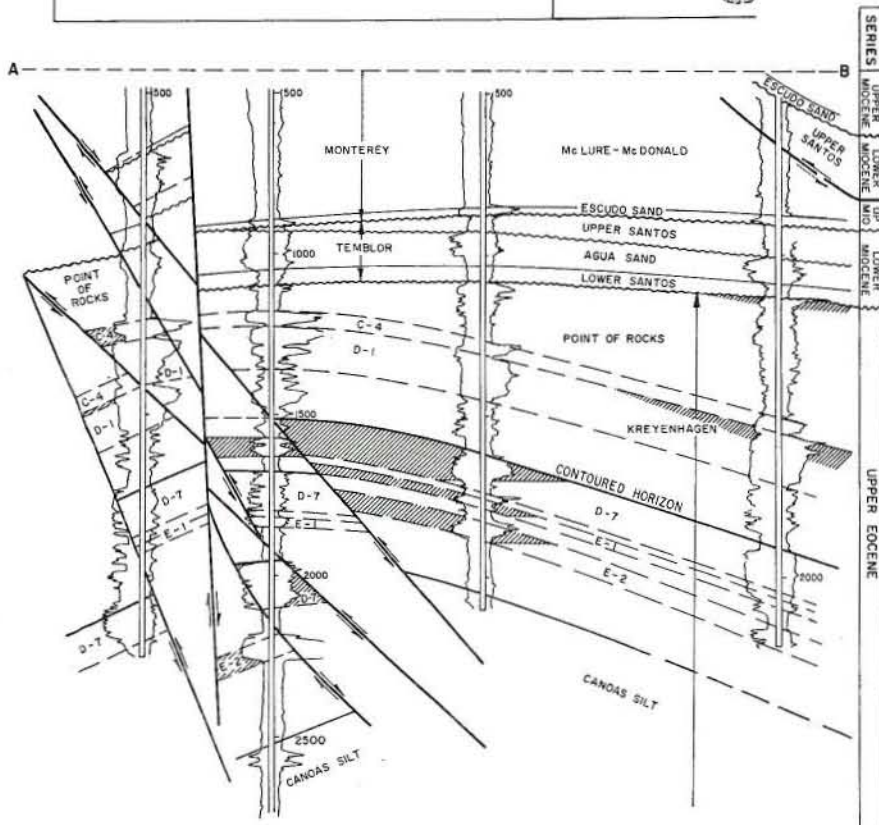
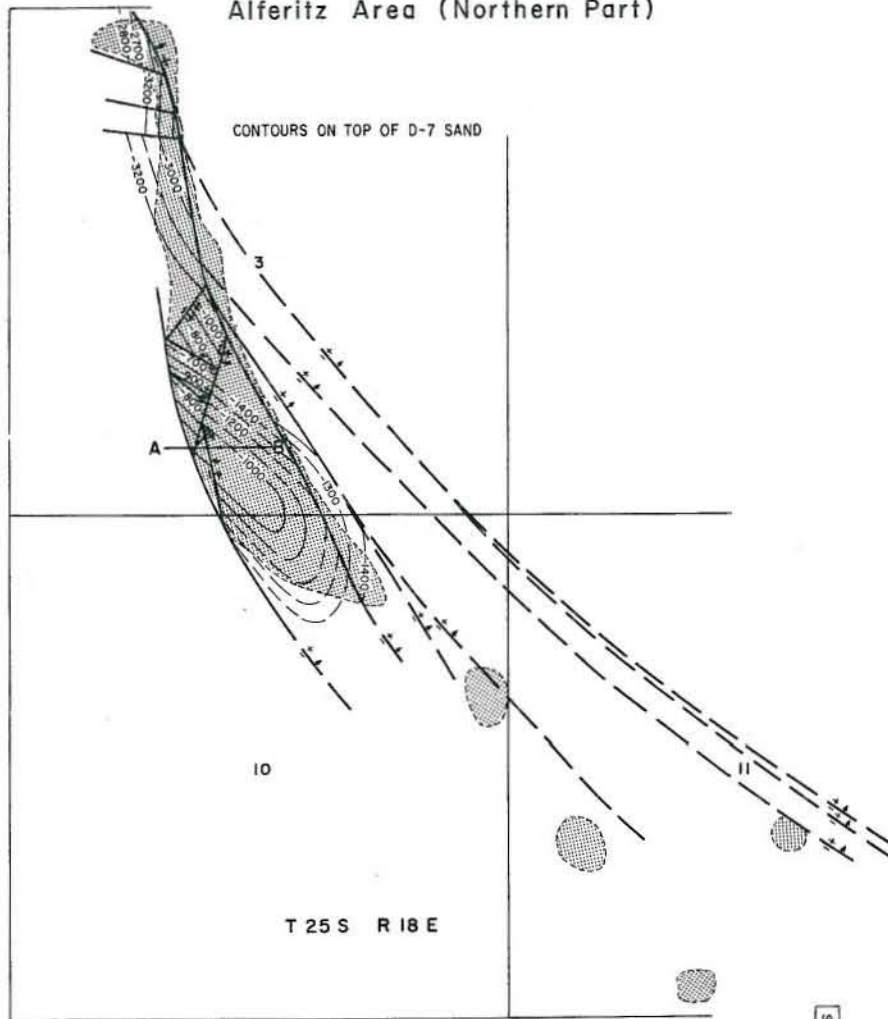
CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

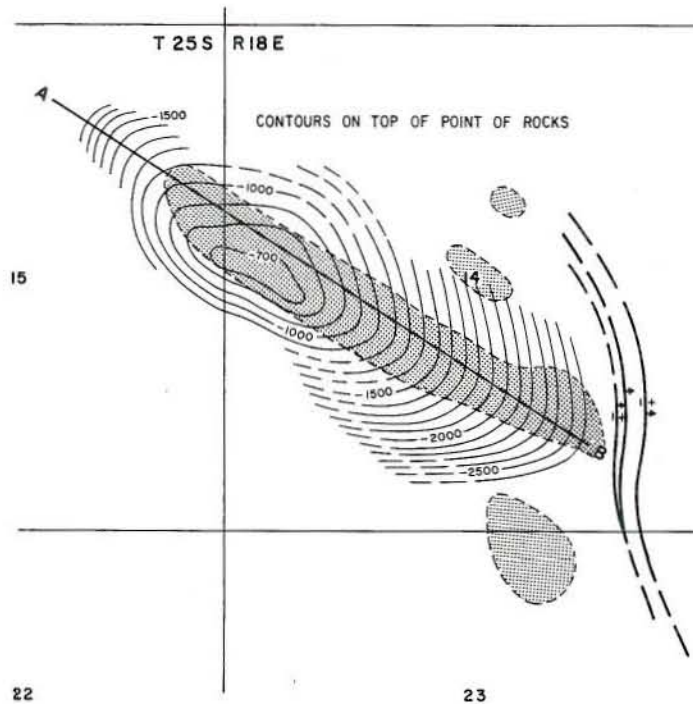
REFERENCES: See areas.

**DEVILS DEN OIL FIELD**  
Alferitz Area (Northern Part)

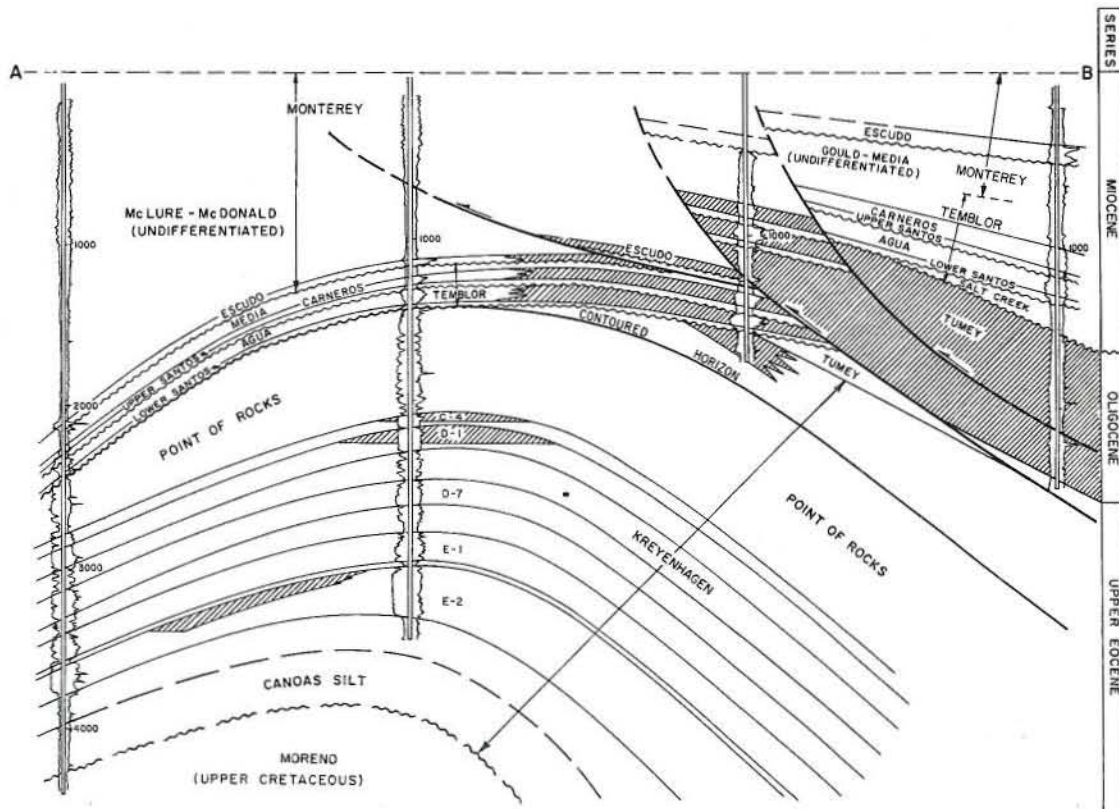


# DEVILS DEN OIL FIELD

## Alferitz Area (Southern Part)



SCALE 1" = 2000'



# CALIFORNIA DIVISION OF OIL AND GAS

ALFERITZ AREA

DEVILS DEN OIL FIELD

Kern County

LOCATION: See index map of Devils Den Oil Field

TYPE OF TRAP: Anticline with major faulting; permeability variations; fractured shale

ELEVATION: 650

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Escudo	Gilliland Oil & Land Co. "Alferitz" 15	Gilliland Oil Co. and C.O. Davis "Alferitz" 15	14 25S 18E	MD	520	N.A.	Aug 1952
Carneros - Agua	Gilliland Oil & Land Co. "Alferitz" 3	Gibson Oil Co. Inc. "Alferitz" 3	14 25S 18E	MD	10	N.A.	Oct 1938
Tumey	Gilliland Oil & Land Co. "Alferitz" 1	Standard Oil Co. of Calif. "Alferitz" 1	14 25S 18E	MD	60	9	Jun 1931
Point of Rocks (N)	Gilliland Oil & Land Co. "Dagany Gap Unit" 6	Gilliland Oil Co. and H.F. Ahmanson "Miller" 1	3 25S 18E	MD	165	N.A.	Apr 1954
Point of Rocks (S)	Gilliland Oil & Land Co. "Strode" 2	Gilliland Oil Co. and C.O. Davis "Strode" 2	15 25S 18E	MD	180	500	Sep 1951
"Avenal"	Gilliland Oil & Land Co. "Dagany Gap Unit" 25	Gilliland Oil Co. "Bandini - U.C." 1	3 25S 18E	MD	164	N.A.	Apr 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gilliland Oil & Land Co. "Kalloch" 56-11	Carlton Beal and Associates "Kalloch" 56-11	Aug 1953	11 25S 18E	MD	7,801	Point of Rocks	1t Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Escudo	1,100	100	1t Miocene	Monterey	15	N.A.	None
Carneros - Agua	1,350	150	e Miocene	Temblor	15	N.A.	II
Tumey	2,000	500	Oligocene	Tumey	18 - 32	650	II
Point of Rocks (N)	1,200 - 1,700	400	Eocene	Kreyenhagen	23 - 41	480	III
Point of Rocks (S)	2,100 - 3,200	175	Eocene	Kreyenhagen	23 - 34	480	III
"Avenal"	4,200	200	Eocene	Kreyenhagen	40 - 48	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
39,245	31,502	392,795	400	23	2,521,475	4,347,014	293,167	1956	116	70	480

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Southern portion: does not apply. Northern portion: applies

BASE OF FRESH WATER: Southern portion: none. Northern portion: 300.

CURRENT CASING PROGRAM: 10 3/4" cem. 400; 7" cem. above zone; 5 1/2" liner landed through zone.

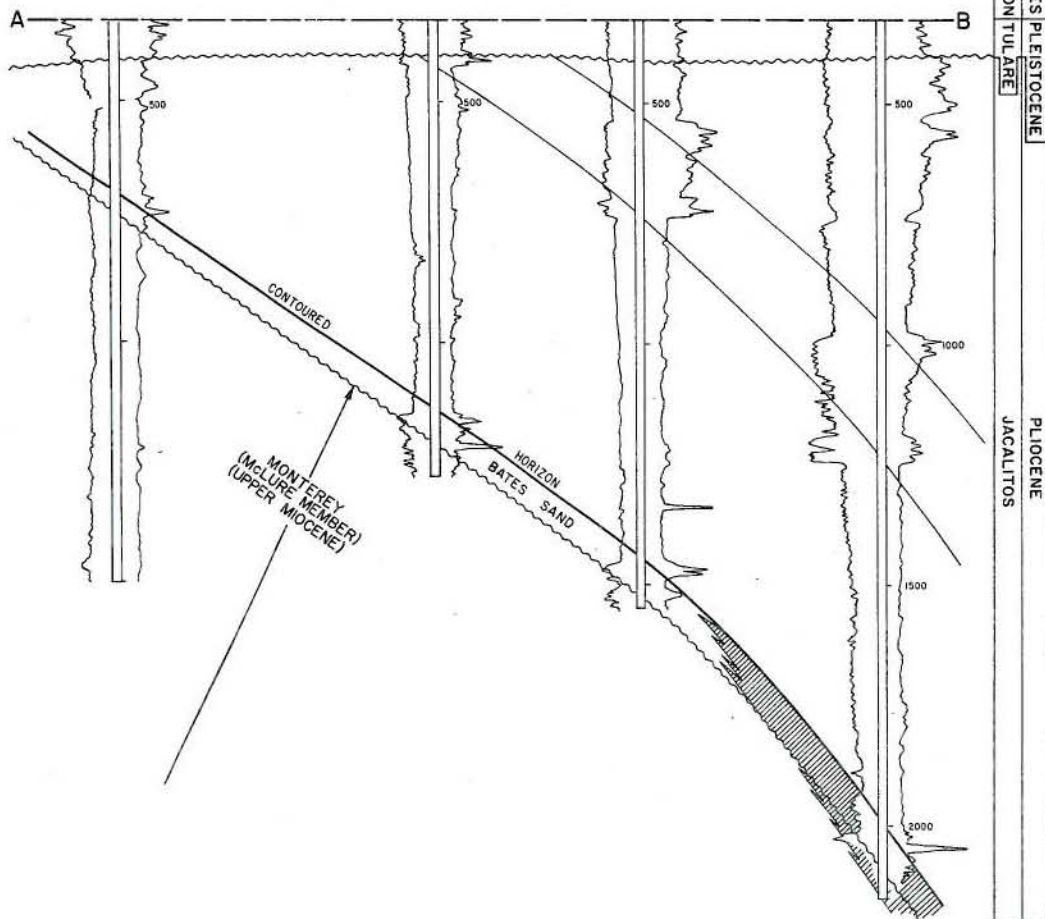
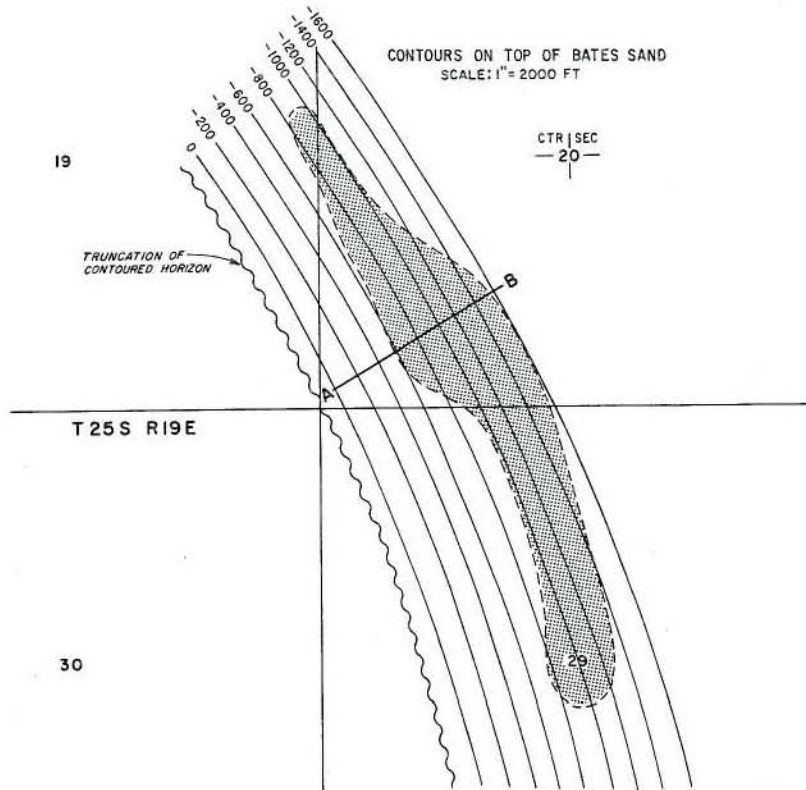
METHOD OF WASTE DISPOSAL: Evaporation and percolation from unlined sumps.

REMARKS: A cyclic-steam injection project was started in the Escudo and Point of Rocks zone in November 1964 and terminated after 22,627 bbls. was injected.

REFERENCES: Ritzius, D.E., Alferitz Area of Devils Den Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).



# DEVILS DEN OIL FIELD Bates Area



## CALIFORNIA DIVISION OF OIL AND GAS

DEVILS DEN OIL FIELD

BATES AREA

Kern County

LOCATION: See index map of Devils Den Oil Field

TYPE OF TRAP: Permeability variation on a regional homocline

ELEVATION: 500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Bates	Jacalitos Petroleum Co. "Bates Estates" 1-1	Kenmac Oil Co. "Bates Estates" 27X-20	20 25S 19E	MD	50	N.A.	Jun 1954

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth.	
						Strata	Age
Chanslor-Western Oil and Development Co. "Bates" 2	Chanslor-Canfield Midway Oil Co. "Bates" 2	Jul 1944	20 25S 19E	MD	9,181	--	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Bates	1,600	60	Pliocene	Jacalitos	25	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
8,118	0	1,143	140	9	293,294	0	49,086	1956	50	15	150

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 600

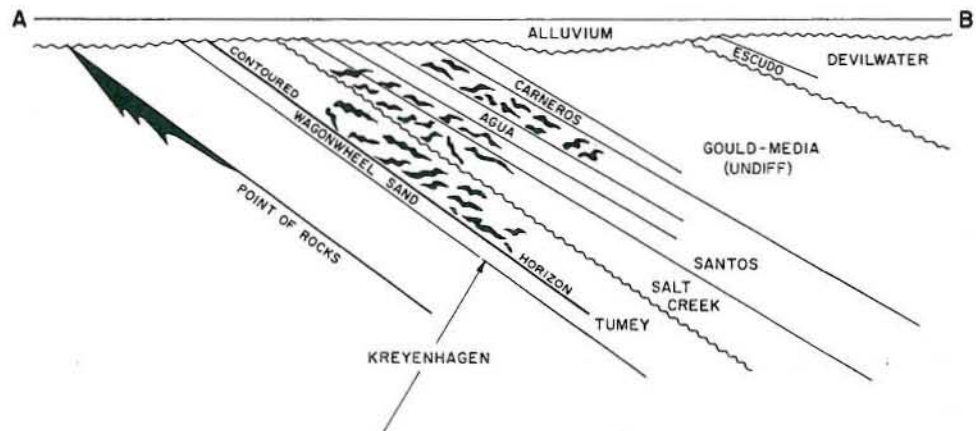
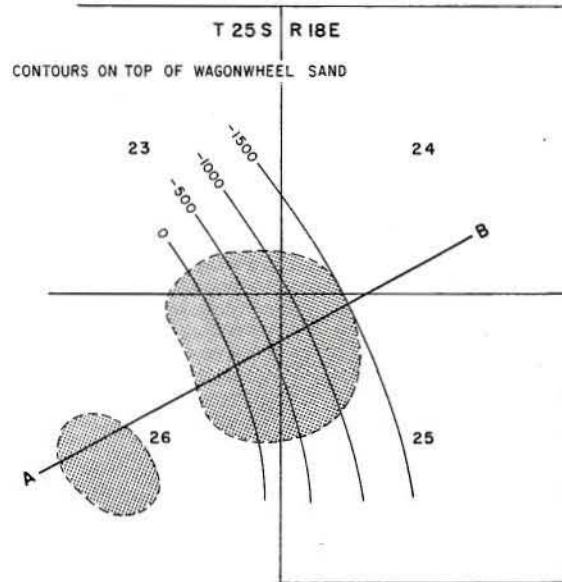
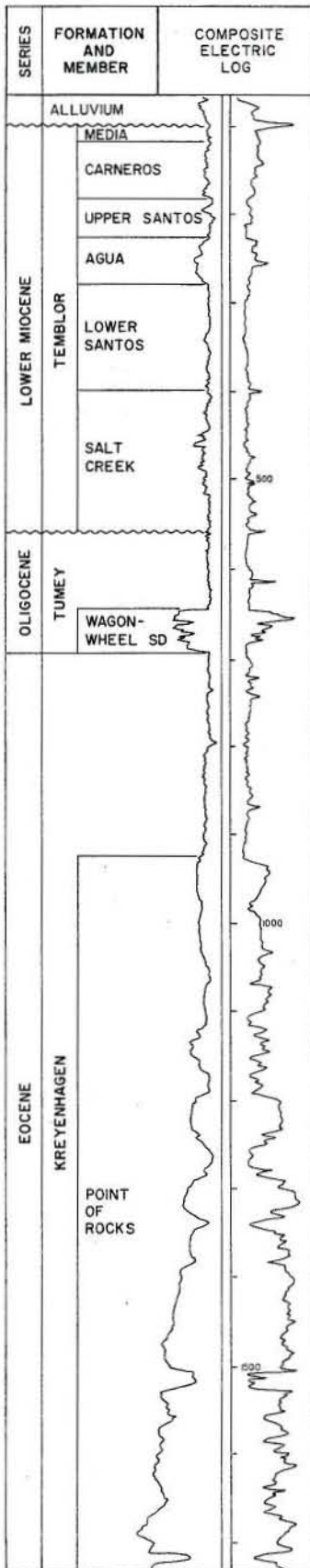
CURRENT CASING PROGRAM: 7" casing cem: above zone and across base of fresh-water sands; 5 1/2" perforated liner landed through zone.

METHOD OF WASTE DISPOSAL:

•REMARKS:

REFERENCES: Lorshbough, A.L., Bates Area of Devils Den Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1 (1958).

# DEVILS DEN OIL FIELD Old Area



# CALIFORNIA DIVISION OF OIL AND GAS

DEVILS DEN OIL FIELD

OLD AREA

Kern County

LOCATION: See index map of Devils Den Oil Field

TYPE OF TRAP: Angular unconformity; fractured shale

ELEVATION: 550

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santos	Operators name and well number unknown	Operators name and well number unknown	25 25S 18E or 26	MD	N.A.	N.A.	N.A.
Salt Creek	Same as above	Same as above	25 25S 18E or 26	MD	N.A.	N.A.	N.A.
Tumey	Same as above	Same as above	25 25S 18E or 26	MD	N.A.	N.A.	N.A.
Point of Rocks	Same as above	Same as above	25 25S 18E or 26	MD	N.A.	N.A.	N.A.

Remarks: The first well is believed to have been completed in 1901.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Signal Oil and Gas Co. "Hancock-M.J.M.&M.-C.C.M.O." 34-24	Hancock Oil Co. "Hancock-M.J.M.&M.-C.C.M.O." 34-24	Jun 1954	24 25S 18E	MD	4,836	Point of Rocks	1t Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (-API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santos	200	50	early Miocene	Temblor	14	N.A.	None
Salt Creek	200	260	early Miocene	Temblor	19	N.A.	None
Tumey	500	300	Oligocene	Tumey	16	N.A.	None
Point of Rocks	600	200	Eocene	Kreyenhagen	18	420	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,854	0	5,047	240	15	161,179	185	11,602	1966	164	118	340

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 5" cem. above zone, no liner.

METHOD OF WASTE DISPOSAL: Evaporation and percolation from unlined sumps.

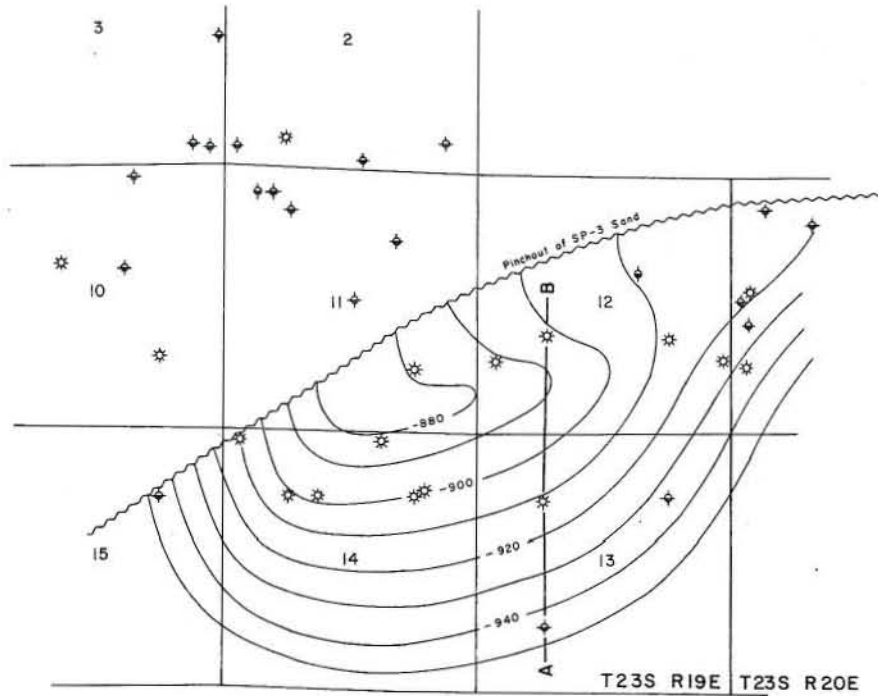
REMARKS: A cyclic-steam injection project was started in September 1956 and terminated after 13,800 bbls. was injected. A steam-flood project was started in February 1966 and terminated after 37,700 bbls. was injected.

REFERENCES: Van Couvering, Martin, and H.B. Allen, Devils Den Oil Field: Calif. Div. of Mines, Bull. 118 (1943).

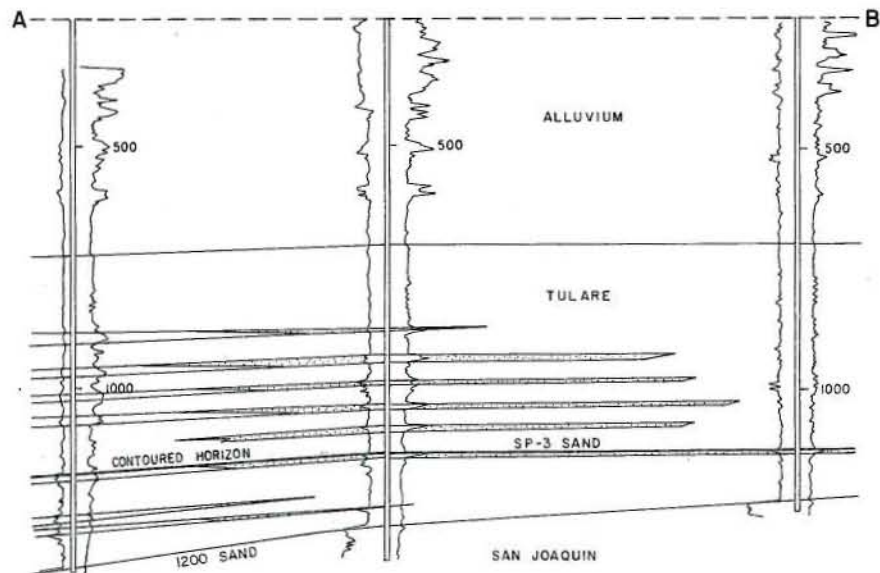


# DUDLEY RIDGE GAS FIELD (Abandoned)

SERIES	FORMATION & MEMBER	COMPOSITE ELECTRIC LOG
PLEISTOCENE	TULARE	1000
PLIOCENE	SAN JOAQUIN	1500
		5000
	ETCHEGOIN	5500
MIOCENE	UPPER MONTEREY	6000
		7000
	REEF RIDGE	7500
	MCLURE	10000
		10500
MIOCENE	MIDDLE	12500
		13000
MIOCENE	LOWER	13500
		14000
MIOCENE	TEMBLOR	14500
		15000
OLIGOCENE	KREYENHAGEN	15500
Eocene		15500



CONTOURS ON TOP OF SP-3 SAND



## CALIFORNIA DIVISION OF OIL AND GAS

DUDLEY RIDGE GAS FIELD (Abandoned)

Kings County

LOCATION: 30 miles southeast of Coalinga

TYPE OF TRAP: Anticline; lithofacies variations on anticline

ELEVATION: 210

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Tulare	Jacalitos Petroleum Co. "S.P." 1-13	Mohawk Pet. Corp. and Jacalitos Pet. Co. "S.P." 1-13	13 23S 19E	MD	1,920	396	7/16	Jan 1957
1200 sand	R. H. Anderson and C. C. Friend No. 1	Dudley Ridge Oil Co., Ltd. No. 1	12 23S 19E	MD	28,000	480	N.A.	May 1929

Remarks: The San Joaquin zone discovery well blew in during May 1929 and remained out of control for ten days. During this time the estimated maximum daily productive rate was 30,000 Mcf.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Howe" 1	Same	Apr 1966	2 23S 19E	MD	15,797	Kreyenhagen	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Tulare	1,100	20	Pleis - Plio	Tulare	1,040	375	440	III
1200 sand	1,280	20	Pliocene	San Joaquin	N.A.	N.A.	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	4,866,331	731,843	1960	36	17	750

SPACING ACT: Does not apply

BASE OF FRESH WATER: 450

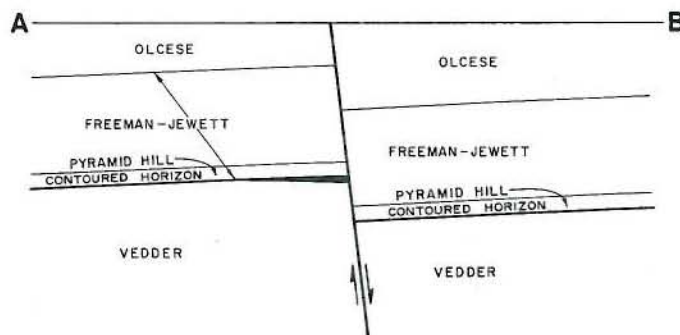
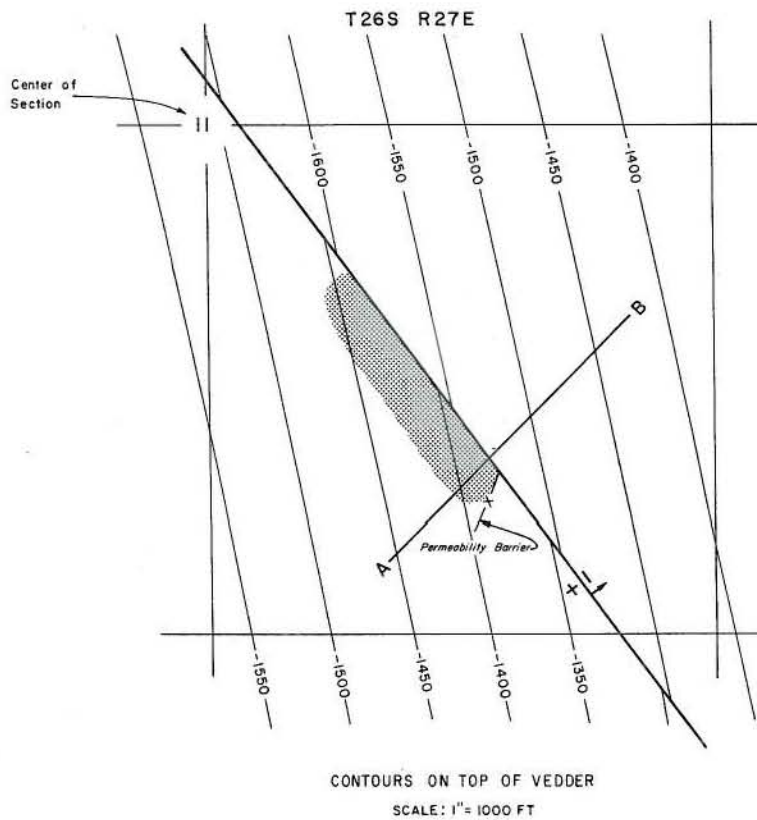
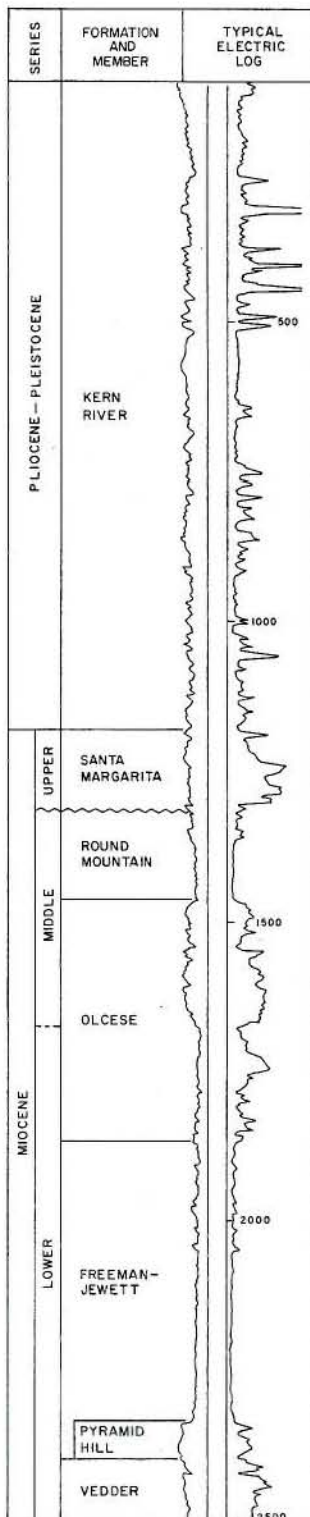
CURRENT CASING PROGRAM: 5 1/2" cem 250; 2 7/8" cem 1,300.

METHOD OF WASTE DISPOSAL:

REMARKS: The last producing well in the field was abandoned during 1965.

REFERENCES: Corwin, C. H., Dudley Ridge Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 1 (1960).

# DYER CREEK OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

DYER CREEK OIL FIELD (Abandoned)

Kern County

LOCATION: 20 miles north of Bakersfield

TYPE OF TRAP: Faulted homocline with permeability barrier

ELEVATION: 870

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vedder	Shell Oil Co. "Smith" 56X-11	Same as present	11 26S 27E	MD	185	N.A.	Sep 1941

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Smith Cairns" 2	Same	Oct 1941	11 26S 27E	MD	2,491	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vedder	2,340	75	early Miocene	Vedder	15	35	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	35,369	0	15,988	1942	11	2	20

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,300

CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

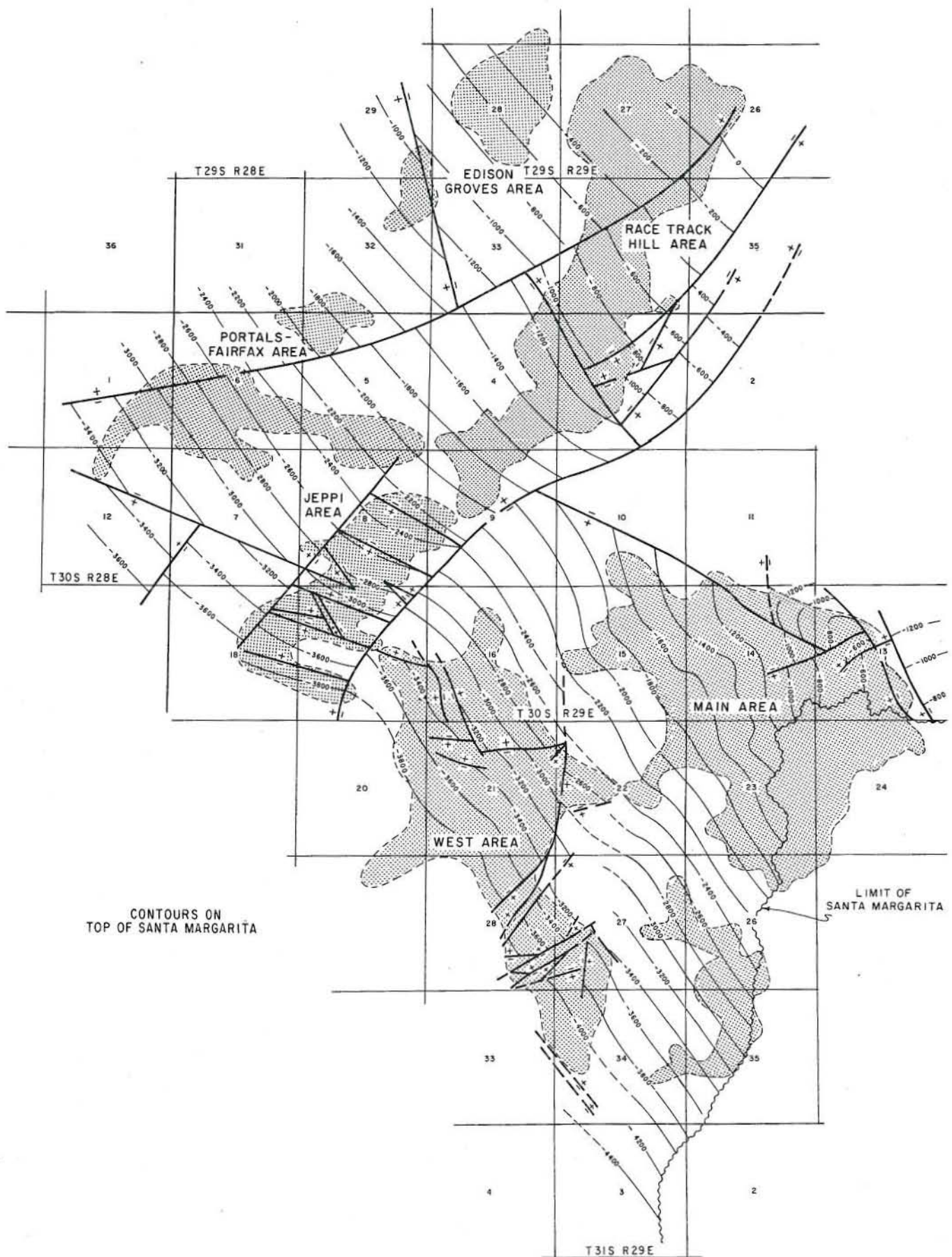
METHOD OF WASTE DISPOSAL:

REMARKS: The last oil well in the field was abandoned in 1952.

REFERENCES:



CONTOURS ON  
TOP OF SANTA MARGARITA



# CALIFORNIA DIVISION OF OIL AND GAS

EDISON OIL FIELD

Kern County

LOCATION: 8 miles southeast of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 475 - 750

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Fruitvale and Nozu	Don M. Cook "Seale 5" 5	General Petroleum Corp. of Calif. "Kerwin" 1	5 30S 29E	MD	65	N.A.	Jul 1928

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Jeppi Camp" 55	Same	Feb 1954	8 30S 29E	MD	6,545	Vedder	early Mio

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,340,547	691,234	11,092,864	5,860	529	111,303,983	65,602,991	6,652,054	1953	1,286	1,043	7,335

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

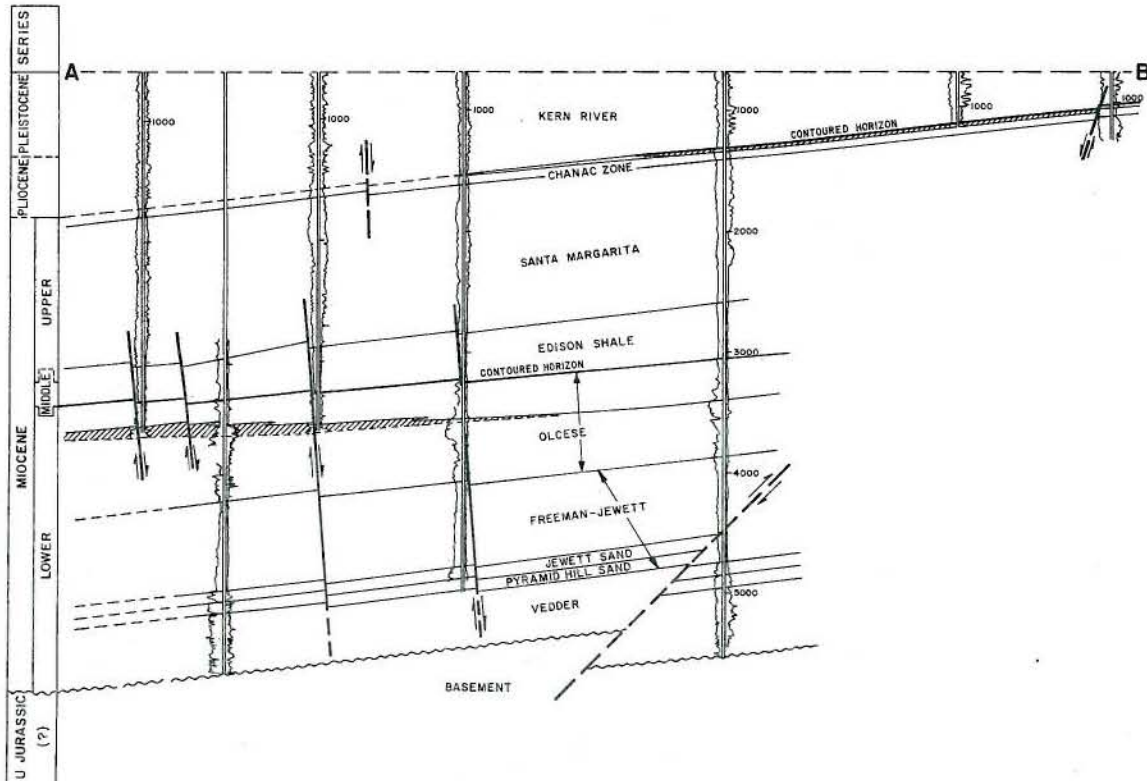
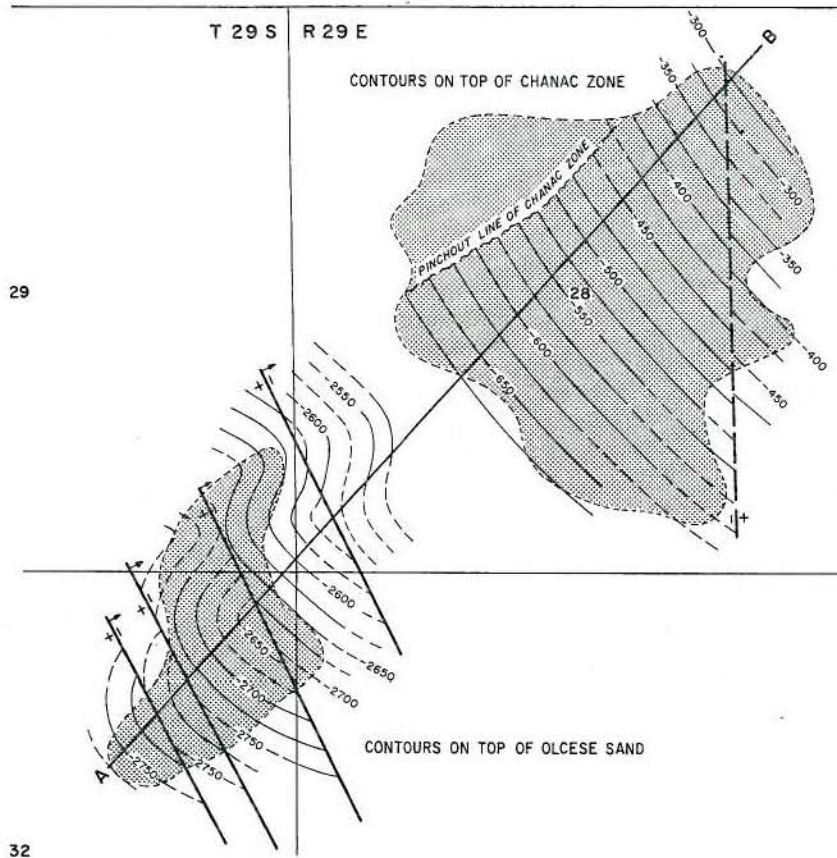
\*METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.

# EDISON OIL FIELD

## Edison Groves Area





# CALIFORNIA DIVISION OF OIL AND GAS

EDISON GROVES AREA

EDISON OIL FIELD

Kern County

LOCATION: See index map of Edison Oil Field

TYPE OF TRAP: Facies change on a faulted homocline

ELEVATION: 550 - 750

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac Olcese	G.A. Henry "DLK" 1A William K. Barker & Associates "Shields-Arms" 72-32	A.M. Dunn "DLK" 1A Richfield Oil Corp. "Shields-Arms" 1	28 29S 29E	MD	20	N.A.	Oct 1953
			32 29S 29E	MD	239	N.A.	Dec 1950

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
William K. Barker & Assoc. "Shields-Arms" 71-32	Richfield Oil Corp. "Shields-Arms" 71-32	Feb 1951	32 29S 29E	MD	5,591	Schist	Late Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac Olcese	1,130	30	late Miocene	Chanac	16	N.A.	None
	3,450	100	early Miocene	Olcese	13	740	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
50,256	7,526	1,032,300	390	45	2,012,132	197,798	162,783	1956	70	56	410

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	118,166	17

SPACING ACT: Applies

BASE OF FRESH WATER: 1,350

CURRENT CASING PROGRAM: Chanac: 8 5/8" or 7" cem. above zone and across base of fresh-water sands; 6 5/8" or 5 1/2" liner landed through zone.  
Olcese: 11 3/4" cem. 200; 8 5/8" or 7" cem. above zone and across base of fresh-water sands; 6 5/8" or 5 1/2" liner landed through zone.

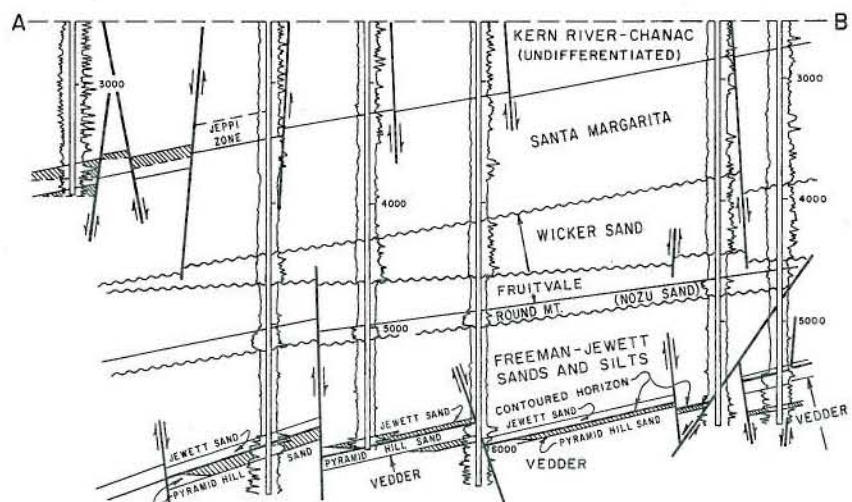
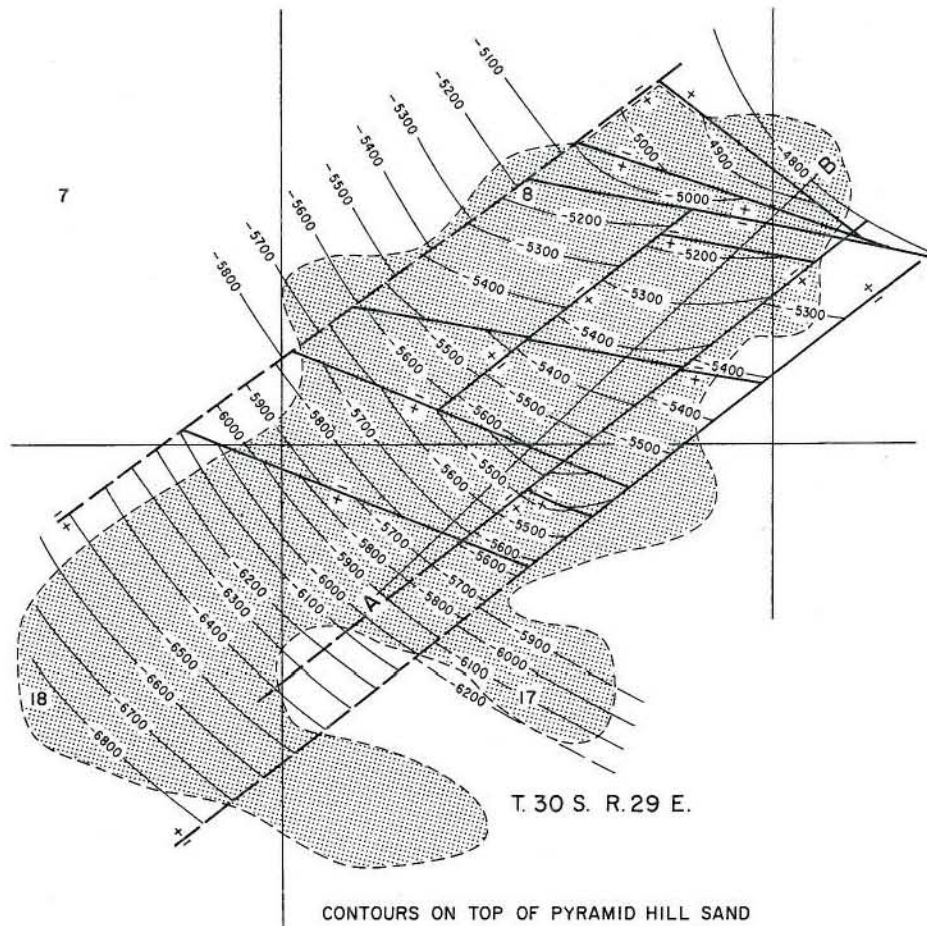
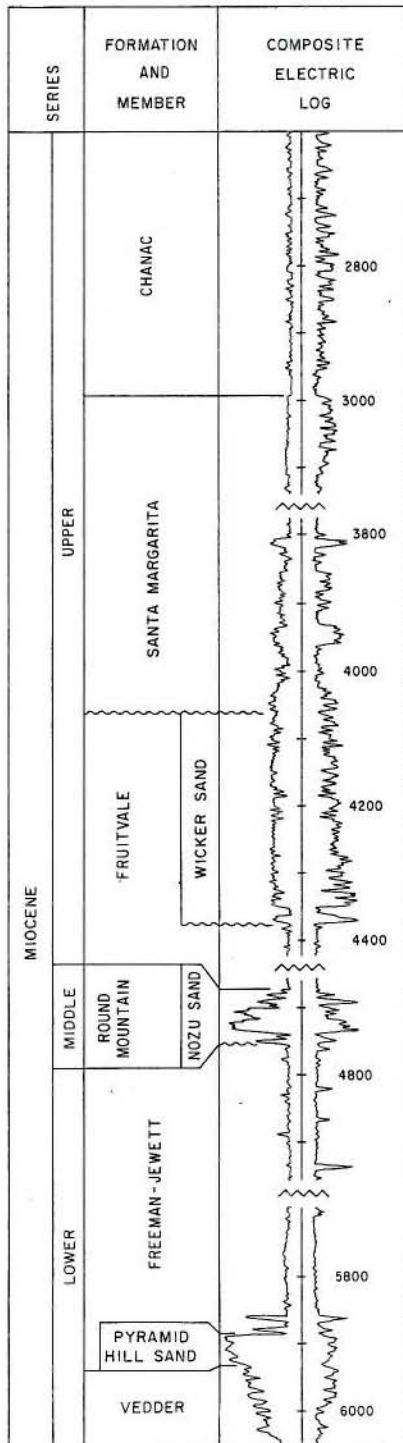
METHOD OF WASTE DISPOSAL:

REMARKS: 959,599 bbl. of waste water was injected during 1972 into one disposal well.

REFERENCES: Matthews, J.F. Jr., Edison Groves Area of Edison Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 2 (1955).



# EDISON OIL FIELD Jeppi Area



# CALIFORNIA DIVISION OF OIL AND GAS

EDISON OIL FIELD

JEPPI AREA

Kern County

LOCATION: See index map of Edison Oil Field

TYPE OF TRAP: Faulted anticlinal nose with permeability variations

ELEVATION: 480

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Jeppi, Santa Margarita	Atlantic Oil Co. "MJM & M-Jeppi" 1	First National Finance Corp. "DeMille-First National-Jeppi" 1	17 30S 29E	MD	500	75	Feb 1948
Jewett, Pyramid Hill, Vedder	Standard Oil Co. of Calif. "Jeppi Camp" 76-8	Crown Drilling Co. "Jeppi Camp" 76-8	8 30S 29E	MD	330	N.A.	Dec 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Jeppi Camp" 55	Same	Feb 1954	8 30S 29E	MD	6,545	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Jeppi	3,300	80	early Pliocene	Chanac	22	20	None
Santa Margarita	3,500	30	late Miocene	Santa Margarita	20	N.A.	None
Jewett	5,900	20	early Miocene	Freeman-Jewett	40	950	III
Pyramid Hill	5,950	45	early Miocene	Freeman-Jewett	38	1,040	III
Vedder	6,040	20	early Miocene	Vedder	40	600	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
28,432	29,770	136,635	525	20	5,511,009	11,454,045	801,408	1955	121	91	685

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,000

CURRENT CASING PROGRAM: Late Miocene and above: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

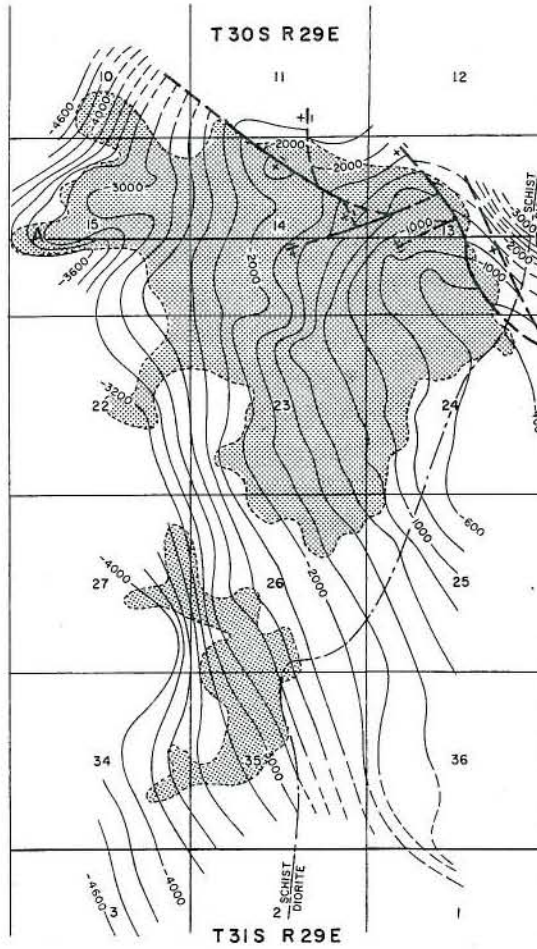
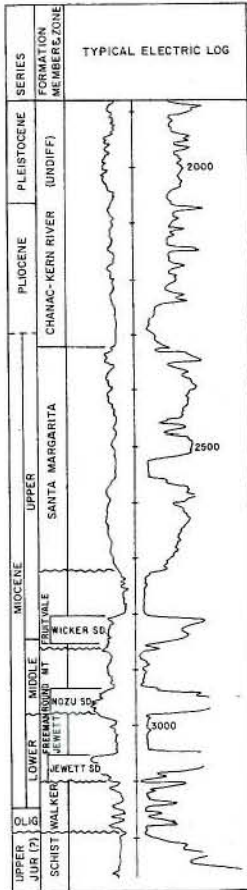
Early Miocene: 11 3/4" cem. 600; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Evaporation and percolation from sumps on marine outcrops east of field.

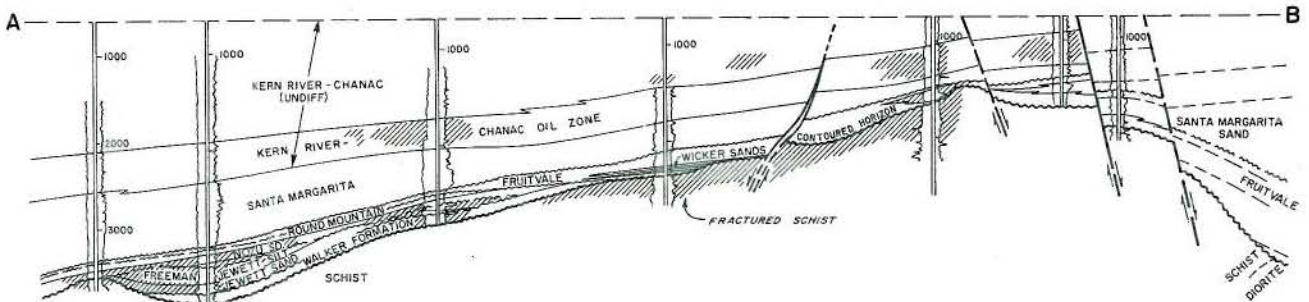
REMARKS: Produced waters contain from 7 to 8 ppm boron.

REFERENCES: White, J.L., Jeppi Area of Edison Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 2 (1955).

EDISON OIL FIELD  
Main Area



CONTOURS ON TOP OF BASEMENT COMPLEX





# CALIFORNIA DIVISION OF OIL AND GAS

EDISON OIL FIELD

MAIN AREA

Kern County

LOCATION: See index map of Edison Oil Field

TYPE OF TRAP: Truncations and permeability variations on a regional homocline

ELEVATION: 650

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Kern River - Chanac	Exxon Corp. "Duff" 2	L.C. Osborne "Duff" 2	15 30S 29E	MD	20	--	Nov 1931
Santa Margarita	Exxon Corp. "McCowan A Fee" 6	A.T. Jergins Trust "McCowan 13A" 6	13 30S 29E	MD	300	N.A.	Jun 1936
Wicker	Exxon Corp. "McCowan A Fee" 3	Jergins Oil Co. "McCowan 13A" 3	13 30S 29E	MD	500	N.A.	Mar 1945
Nozu, Freeman - Jewett, Walker	Exxon Corp. "Duff" 3	Monterey Exploration Co. "Duff" 3	15 30S 29E	MD	510	N.A.	May 1934
Schist	Emjayco "Brockman" 3	H.H. Magee "Brockman" 3	13 30S 29E	MD	340	N.A.	Jun 1945

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Trico Industries, Inc. "Grayson" 45-10	Golden Bear Oil Co. "Grayson" 45-10	Dec 1949	10 30S 29E	MD	5,375	Basement	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Kern River - Chanac	750 - 4,200	450	Plio - lt Mio	Kern River-Chanac	14 - 22	4	None
Santa Margarita	400 - 4,400	15 - 70	late Miocene	Santa Margarita	22	5	None
Wicker	1,500 - 2,500	20 - 105	late Miocene	Fruitvale	16	10	None
Nozu	3,000	55	m Miocene	Round Mountain	20 - 29	6	II
Freeman-Jewett	3,100	65	early Miocene	Freeman-Jewett	16 - 29	--	III
Walker	2,900	120	Oligocene	Walker	20	5	III
Schist	1,200 - 4,500	360	Jurassic	Schist	21	5	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
667,272	140,323	6,324,861	1,950	220	66,116,647	12,377,373	4,669,587	1946	463	377	2,525

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	1,594,312	86

SPACING ACT: Applies

BASE OF FRESH WATER: 1,700

CURRENT CASING PROGRAM: 8 5/8" or 7" cem. above zone and across base of fresh-water sands; 6 5/8" or 5 1/2" liner landed through zone.

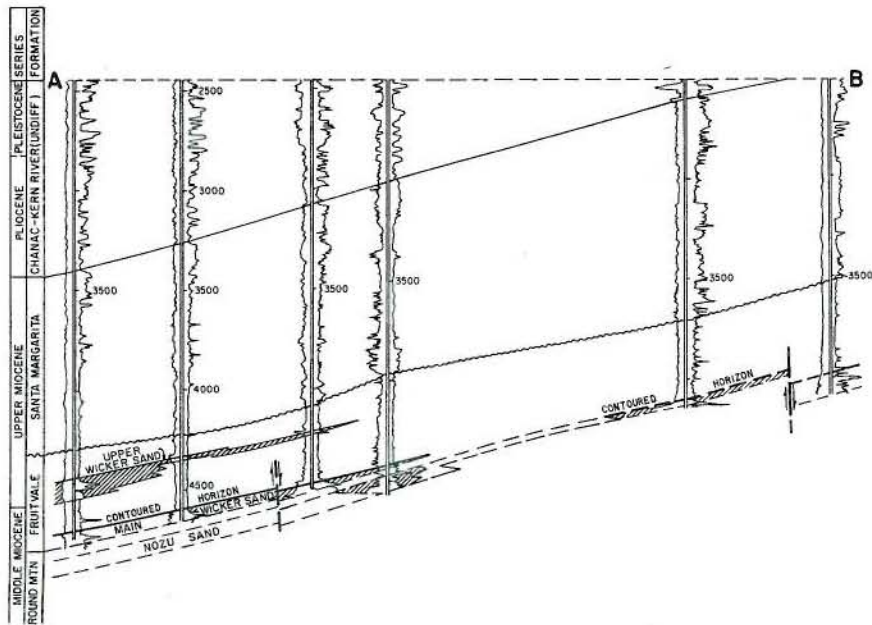
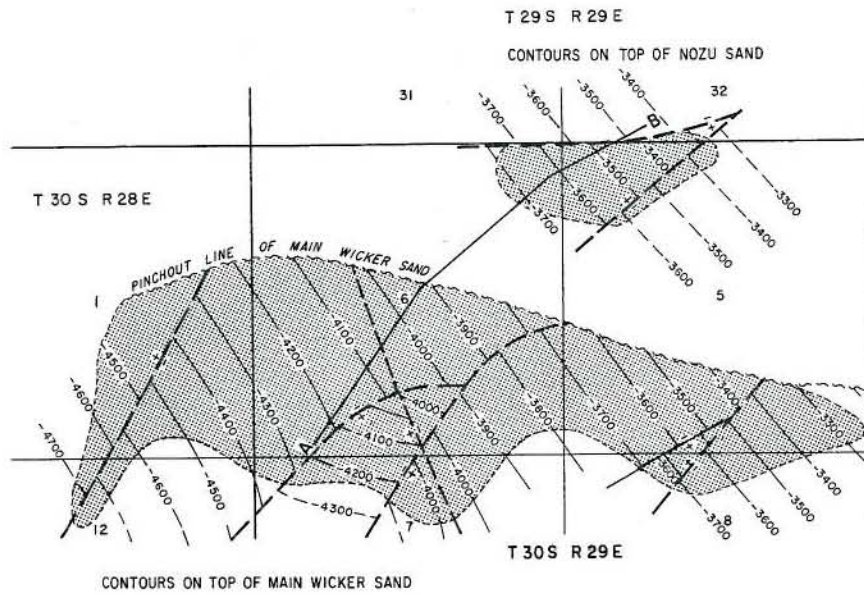
METHOD OF WASTE DISPOSAL: Evaporation and percolation from sumps on marine outcrops east of field.

REMARKS: A water flood of the Freeman-Jewett zone was begun in 1964 and terminated after 982,378 bbls. was injected.

REFERENCES: Barnes, J.A., Main Area of Edison Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 2 (1966).  
Kasline, F.E., Edison Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 26 (1941).



# EDISON OIL FIELD Portals - Fairfax Area



# CALIFORNIA DIVISION OF OIL AND GAS

PORTALS - FAIRFAX AREA

EDISON OIL FIELD

Kern County

LOCATION: See index map of Edison Oil Field

TYPE OF TRAP: Channel sands on a faulted homocline; sand pinchout

ELEVATION: 475

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Wicker	J.H. Siemon "Edison-Seale-5" 1	Lee Oil Co. Inc. "Edison-Seale-5" 1	5 30S 29E	MD	100	18	Nov 1934
Fruitvale and Nozu	Don M. Cook "Seale 5" 5	General Pet. Corp. of Calif. "Kerwin" 1	5 30S 29E	MD	65	N.A.	Jul 1928

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "Cohn Estate" 1	Western Gulf Oil Co. "Cohn Estate" 1	Oct 1944	3 30S 28E	MD	6,278	Wicker	m & lt Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Wicker	4,200	60	m & lt Miocene	Fruitvale	19	20	None
Nozu	4,100	50	m Miocene	Round Mountain	15	300	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
56,037	200	55,054	455	43	3,565,069	422,769	229,087	1953	111	79	660

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: 3,000

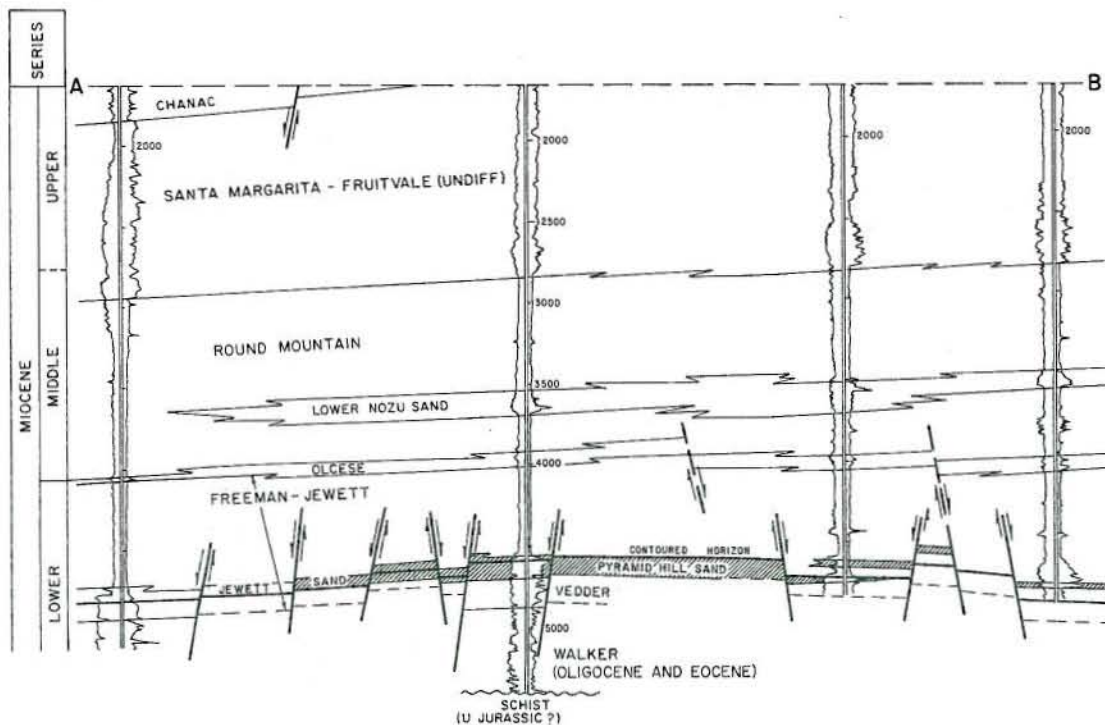
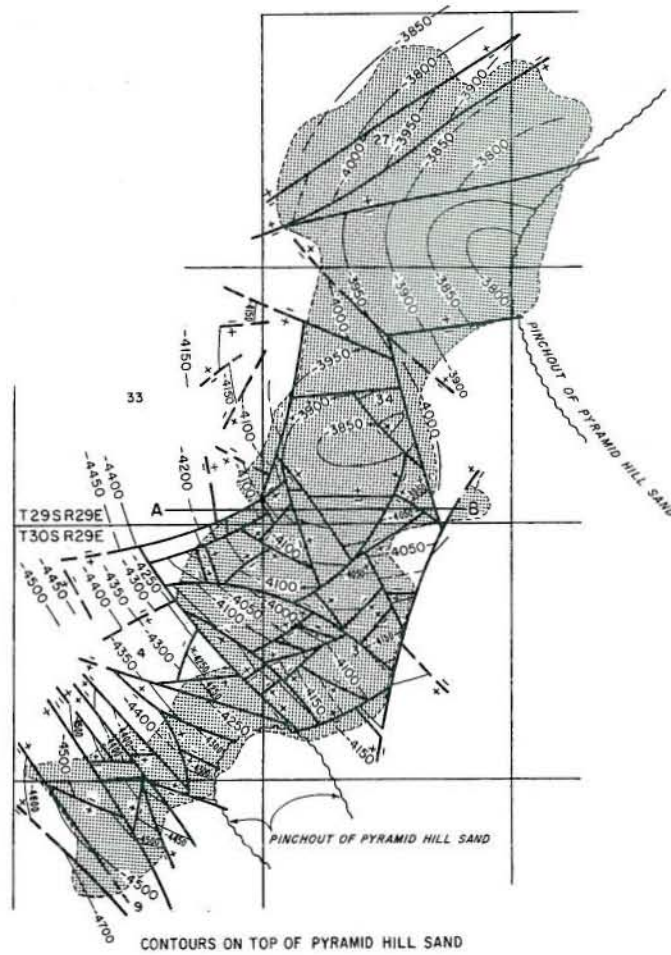
CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation from sumps on marine outcrops east of field.

REMARKS: A water flood of the Wicker zone was begun in May 1963 and terminated after a total of 221,796 bbls. was injected.

REFERENCES: Matthews, J.F. Jr., Portals - Fairfax Area of Edison Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 2 (1956).

# EDISON OIL FIELD Race Track Hill Area



# CALIFORNIA DIVISION OF OIL AND GAS

EDISON OIL FIELD

RACE TRACK HILL AREA

Kern County

LOCATION: See index map of Edison Oil Field

TYPE OF TRAP: Anticline with major faulting

ELEVATION: 500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Camtex Industries Inc. "Cohn" 8-34	M. Barratt & Ernest W. Bysshe Jr. "Cohn" 8	34 29S 29E	MD	21	N.A.	Nov 1954
Santa Margarita	E.H. Jackson Oil Co. "S-P" 4	Gus Pongratz "S-P" 4	3 30S 29E	MD	14	N.A.	Mar 1953
Wicker	Casa Oil Assoc. Inc. "Berry-Farms" 48X-4	General Pet. Corp. "Berry-Farms" 48X-4	4 30S 29E	MD	241	145	Nov 1952
Nozu	Pyramid Oil Co. "Portals-Berry" 66-4	The British-American Oil Prod. Co. and Capital Co. "Portals-Berry" 66-4	4 30S 29E	MD	60	N.A.	Oct 1947
Jewett, Pyramid Hill, Vedder	Mobil Oil Corp. "Portals 1" 53-3	The British-American Oil Prod. Co. "Portals" 53-3	3 30S 29E	MD	256	345	Sep 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Casa Oil Assoc. Inc. "Berry Farms" 18-4	General Pet. Corp. "Berry Farms" 18-4	Mar 1953	4 30S 29E	MD	5,500	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	1,070	150	late Miocene	Chanac	15	10	None
Santa Margarita	1,830	40	late Miocene	Santa Margarita	13	10	None
Wicker	3,200	130	late Miocene	Fruitvale	14	20	None
Nozu	3,260	200	m Miocene	Round Mountain	16	10	II
Jewett	4,570	50	e Miocene	Freeman-Jewett	41	80	III
Pyramid Hill	4,620	100	e Miocene	Freeman-Jewett	42	70	III
Vedder	4,750	100	e Miocene	Vedder	41	60	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
274,739	128,298	2,914,829	1,310	93	15,794,473	36,309,897	1,435,912	1953	250	207	1,565

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	731,785	55

SPACING ACT: Applies

BASE OF FRESH WATER: 3,200

CURRENT CASING PROGRAM: Late Miocene: 7" casing cem. above zone; 5 1/2" liner landed through zone. Middle and early Miocene: 11 3/4" cem. 500; 5 1/2" cem. through zone and across base of fresh-water sands.

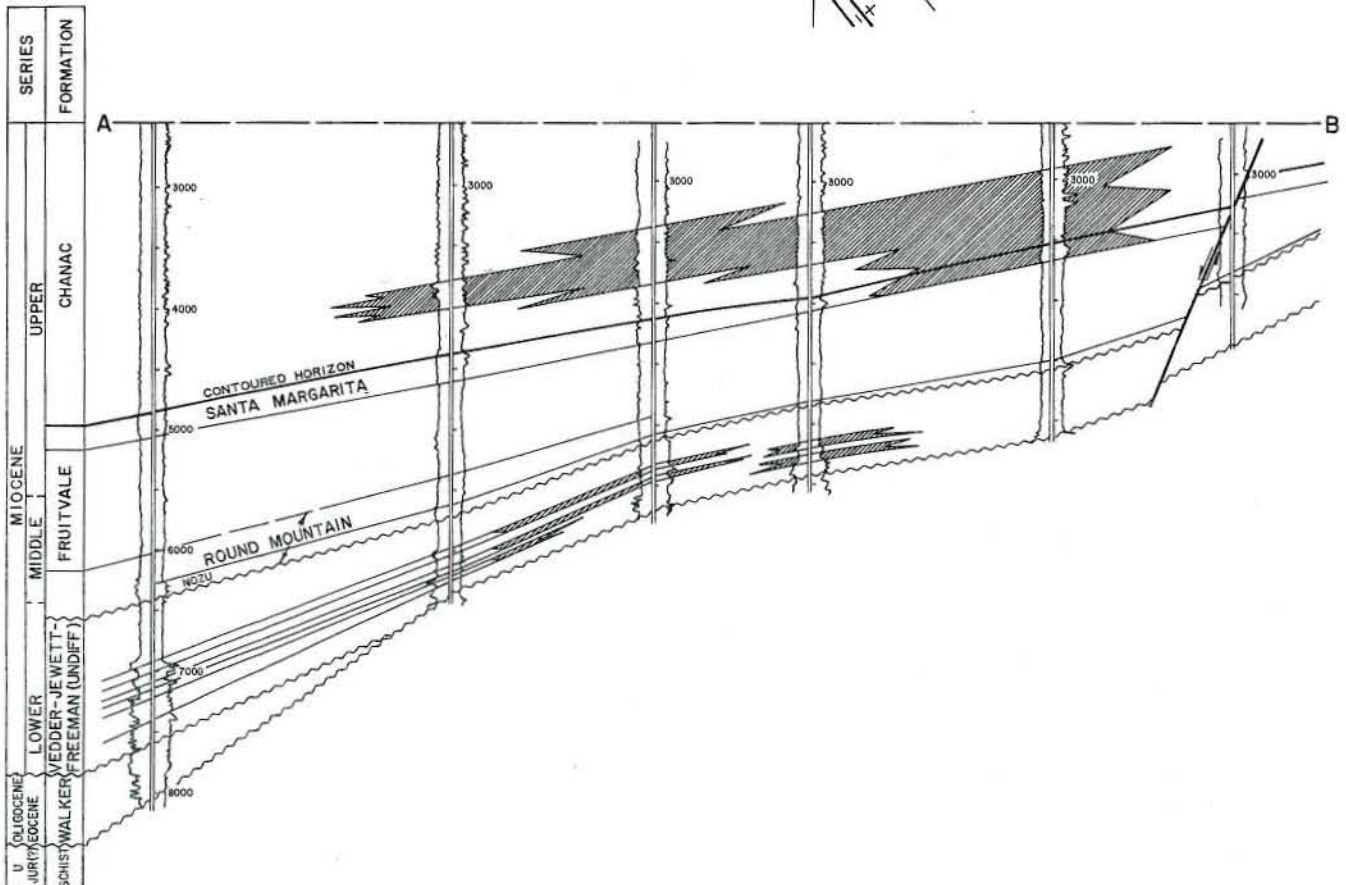
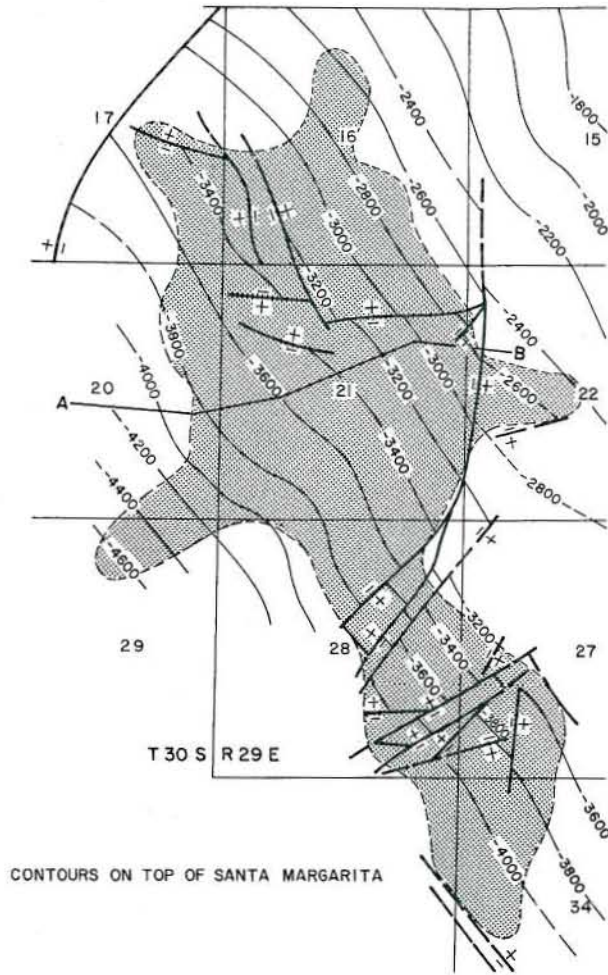
METHOD OF WASTE DISPOSAL: Evaporation and percolation from sumps on marine outcrops east of field.

REMARKS: Zone waters average 7.5 ppm boron. A water flood of the Pyramid Hill zone was begun in 1963 and terminated after 790,831 bbls. was injected.

REFERENCES: Sullivan, J.C., Race Track Hill Area of Edison Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 2 (1955).



# EDISON OIL FIELD West Area



## CALIFORNIA DIVISION OF OIL AND GAS

EDISON OIL FIELD

WEST AREA

Kern County

LOCATION: See index map of Edison Oil Field

TYPE OF TRAP: Permeability variations on a faulted homocline

ELEVATION: 500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Jim Riley "Bauer" 1	Bauer Oil Co. "Bauer" 1	21 30S 29E	MD	150	N.A.	Nov 1935
Santa Margarita	Jim Riley "21-Community" 3	Wood-Callahan Oil Co. "21-Community" 3	21 30S 29E	MD	180	N.A.	Nov 1937
Nozu	Jim Riley "21-Community" 5	Shell Oil Co. "Community" 1	21 30S 29E	MD	166	N.A.	May 1935
Porter	Pyramid Oil Co. "Porter" 28-3	Calif. Exploration Co. & Macmillan Petroleum Corp. "Porter" 28-3	28 30S 29E	MD	49	2,100	May 1951
Freeman-Jewett	Standard Oil Co. of Calif. "Macson-Bloemer" 44-21	Western Gulf Oil Co. 44-21 "Macson-Bloemer"	21 30S 29E	MD	24	1,254	Jan 1957
Pyramid Hill, Vedder	Rothschild Oil Co. "Cohn-Estate" 3	Same as present	21 30S 29E	MD	653	500	Aug 1969

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
J. Ainslie Bell, Opr. "Archibald" 68	Same	Feb 1970	20 30S 29E	MD	7,458	Walker	Olig &/or Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	3,200	200	late Miocene	Chanac	23	fresh	None
Santa Margarita	4,000	200	late Miocene	Santa Margarita	19	35	None
Nozu	4,500	75	m Miocene	Round Mountain	20	50	II
Porter	4,400	100	m Miocene	Olcese	20	60	II
Freeman-Jewett	4,700	100	early Miocene	Freeman-Jewett	40	150	III
Pyramid Hill, Vedder	5,300	300	early Miocene	Freeman-Jewett, Vedder	42	250	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
263,811	385,117	629,185	1,230	108	18,304,653	4,841,109	1,313,911	1952	271	233	1,490

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 4,000

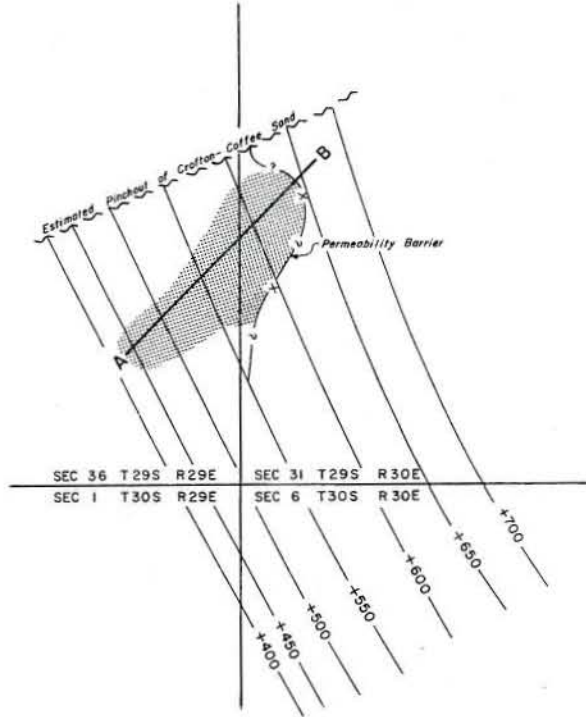
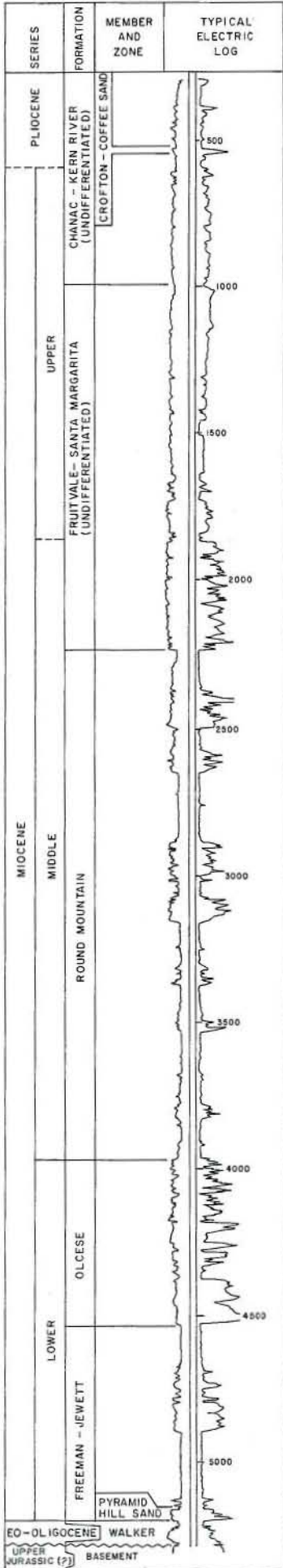
CURRENT CASING PROGRAM: Middle Miocene and above: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone. Early Miocene: 11 3/4" cem. 500; 7" or 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Evaporation and percolation from sumps on marine outcrops east of field and in other sumps in the area after chemical treatment to remove boron.

REMARKS:

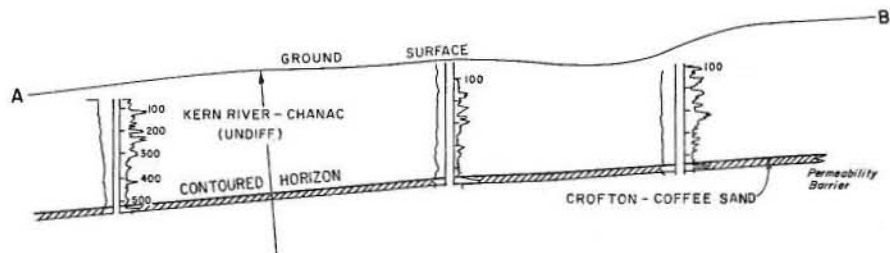
REFERENCES: Shea, D.N., West Area of Edison Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 51, No. 1 (1965).  
Sullwold, H.H. Jr., Geology of West Edison Oil Field: A.A.P.G. Bull. Vol. 39, No. 4, p. 797-820 (1953).

# NORTHEAST EDISON OIL FIELD



CONTOURS ON TOP OF CROFTON-COFFEE SAND

SCALE 1" = 1000'



## CALIFORNIA DIVISION OF OIL AND GAS

EDISON, NORTHEAST, OIL FIELD

Kern County

LOCATION: 11 miles east of Bakersfield

TYPE OF TRAP: Permeability variation on a homocline

ELEVATION: 850 - 1,050

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Bell-Western Oil Co. "S.P.B." 2C	Woodward Oil Co., Ltd. "S.P." 2	31 29S 30E	MD	48	N.A.	Apr 1935

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "S.P. 15" 1	Richfield Oil Corp. "S.P. 15" 1	Aug 1945	31 29S 30E	MD	5,264	Basement	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	350	120	Pliocene	Chanac	12	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	35	0	17,128	0	6,506	1969	28	10	40

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

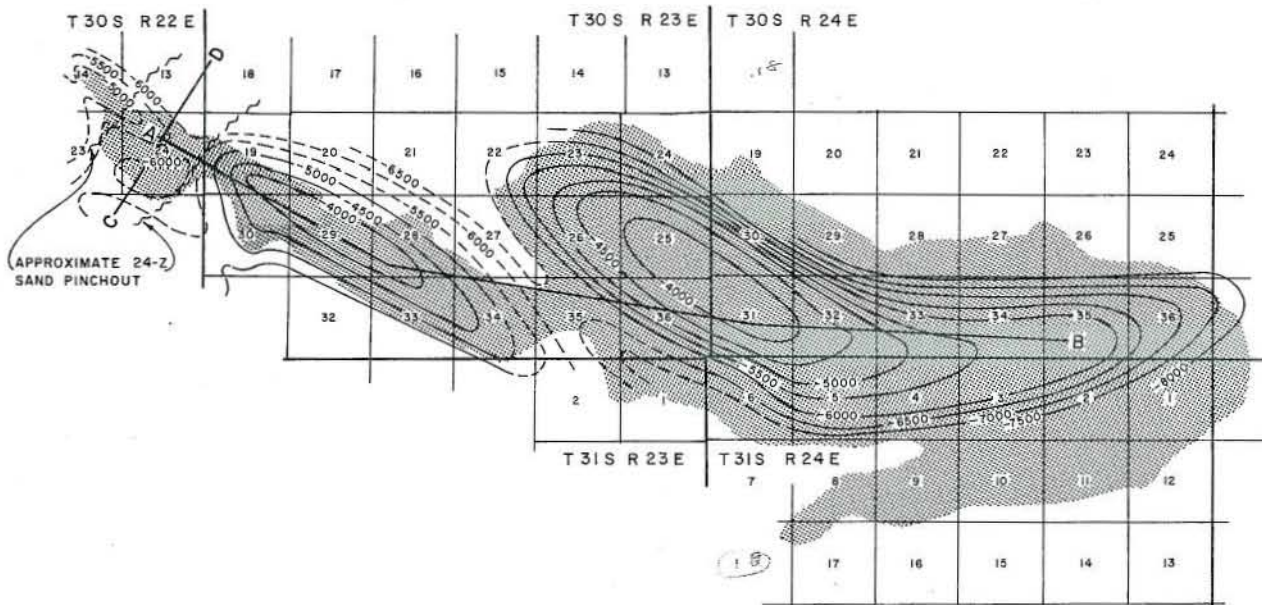
METHOD OF WASTE DISPOSAL:

REMARKS: A cyclic-steam injection project was started in 1968 and was terminated after 26,259 bbls. of water in the form of steam was injected.

REFERENCES:

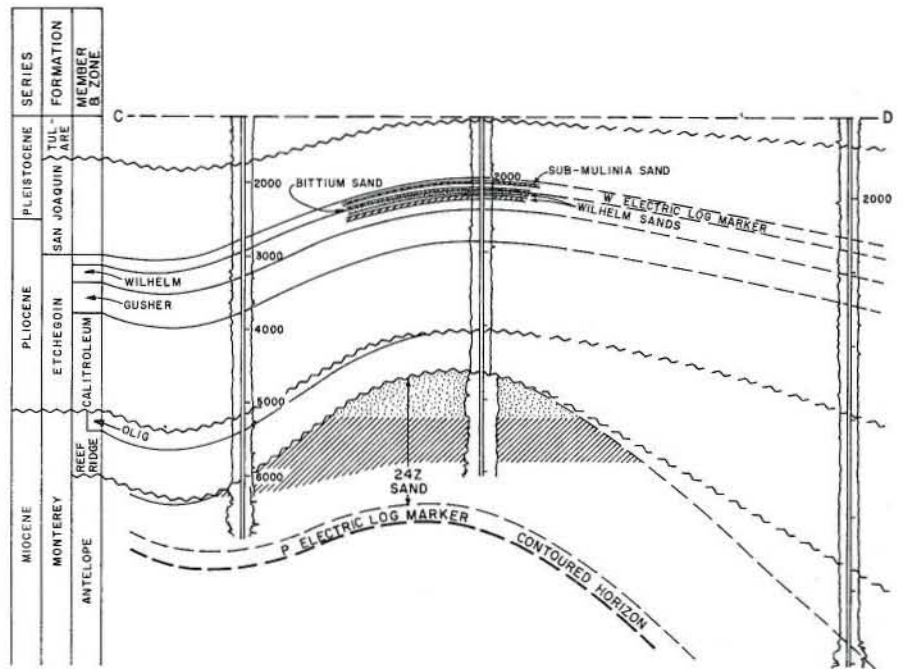
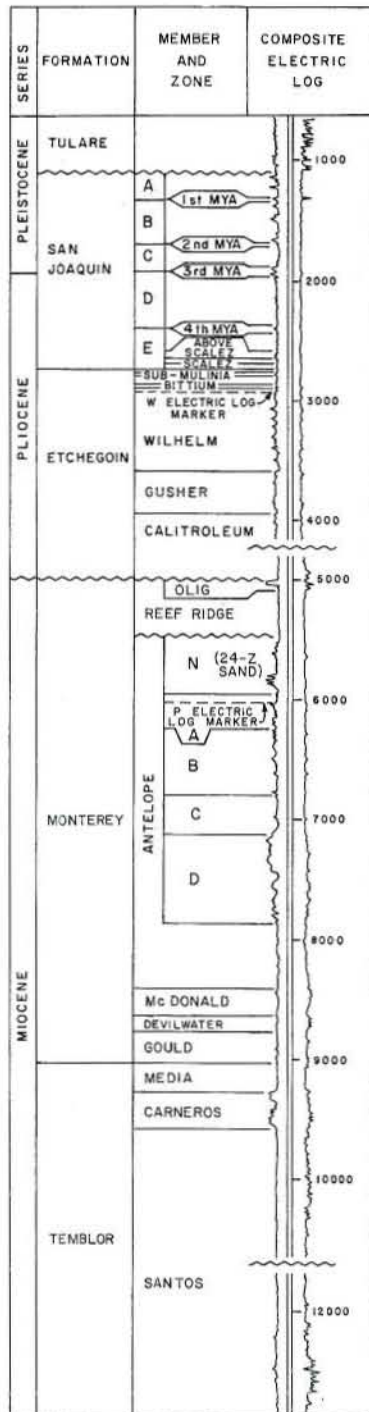
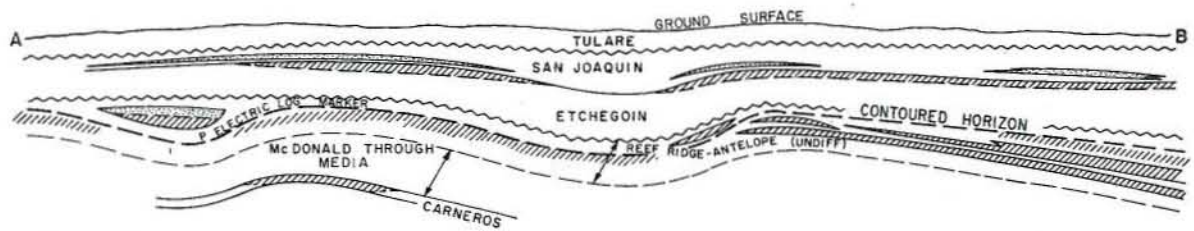


# ELK HILLS OIL FIELD



CONTOURS ON P ELECTRIC LOG MARKER

# ELK HILLS OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

ELK HILLS OIL FIELD

Kern County

LOCATION: 10 miles north of Taft

TYPE OF TRAP: Anticlines; lithofacies changes

ELEVATION: 300 - 1,500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Mya (gas)	Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Operator No. 5X-36R	Standard Oil Co. of Calif. "Hay" 5	36 30S 23E	MD	0	33,000	May 1919
Upper A	Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Operator No. 1-26R	Associated Oil Co. No. 1	26 30S 23E	MD	15	N.A.	Jun 1911
Olig	Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Operator No. 362-30R	Same as present	30 30S 23E	MD	0	B	N.A.
Stevens	Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Operator No. 5-342-31S	Standard Oil Co. of Calif. No. 42	31 30S 24E	MD	1,284	1,039	Aug 1941
Carneros	Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Operator No. 555-30R	Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Operator No. X-55-30R	30 30S 23E	MD	230	1,680	Jan 1952

Remarks: A Includes Scalez, Malinia, Bittium, Wilhelm-Gusher, and Calitroleum sands.

B Not tested in this well. Potential is 1,000 Mcf per day.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Oper. No. 555-30R	Unit Operation Naval Petroleum Reserve No. 1, Standard Oil Co. of Calif., Oper. No. X-55-30R	Aug 1950	30 30S 23E	MD	12,856	Upper Santos	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Mya (gas)	2,300	50	Pliocene	San Joaquin	1.015	2,780	III
Scalez	2,400	80	Pliocene	San Joaquin	18	2,100	See Remarks
Malinia	2,700	55	Pliocene	Etchegoin		1,900	See Remarks
Bittium	2,850	20	Pliocene	Etchegoin	to	2,000	See Remarks
Wilhelm-Gusher	3,000	60	Pliocene	Etchegoin		1,700	See Remarks
Calitroleum	3,200	22	Pliocene	Etchegoin	40	N.A.	See Remarks
Olig	5,000	15	late Miocene	Monterey	--	1,500	III
Stevens	6,500	800	late Miocene	Monterey	35	1,200	IV
Carneros	9,300	200	early Miocene	Temblor	50	750	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
776,469	13,380	7,647,760	18,590	119	281,627,730	169,552,289	17,990,462	1921	1,238	1,149	19,770

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1957	50,953,625	4
Gas injection for repressuring	1945	33,714,948	5

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: Upper zones: 10 3/4" cem. 200; 7" cem. above zone; 5 1/2" liner landed through zone. Lower zones: 10 3/4" cem. 900; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps located on outcrop of early Tulare; injection in water flood projects.

REMARKS: BOPE not required for development wells, except in areas where shallow gas zones are present, then Class III is required. No dry gas production in 1972; cumulative dry gas production 98,499,119 Mcf; peak production (1947) 3,317,692 Mcf; 11 dry gas wells were completed.

REFERENCES: Lorchbough, A.L., Western Portion of Elk Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 53, No. 1 (1967).

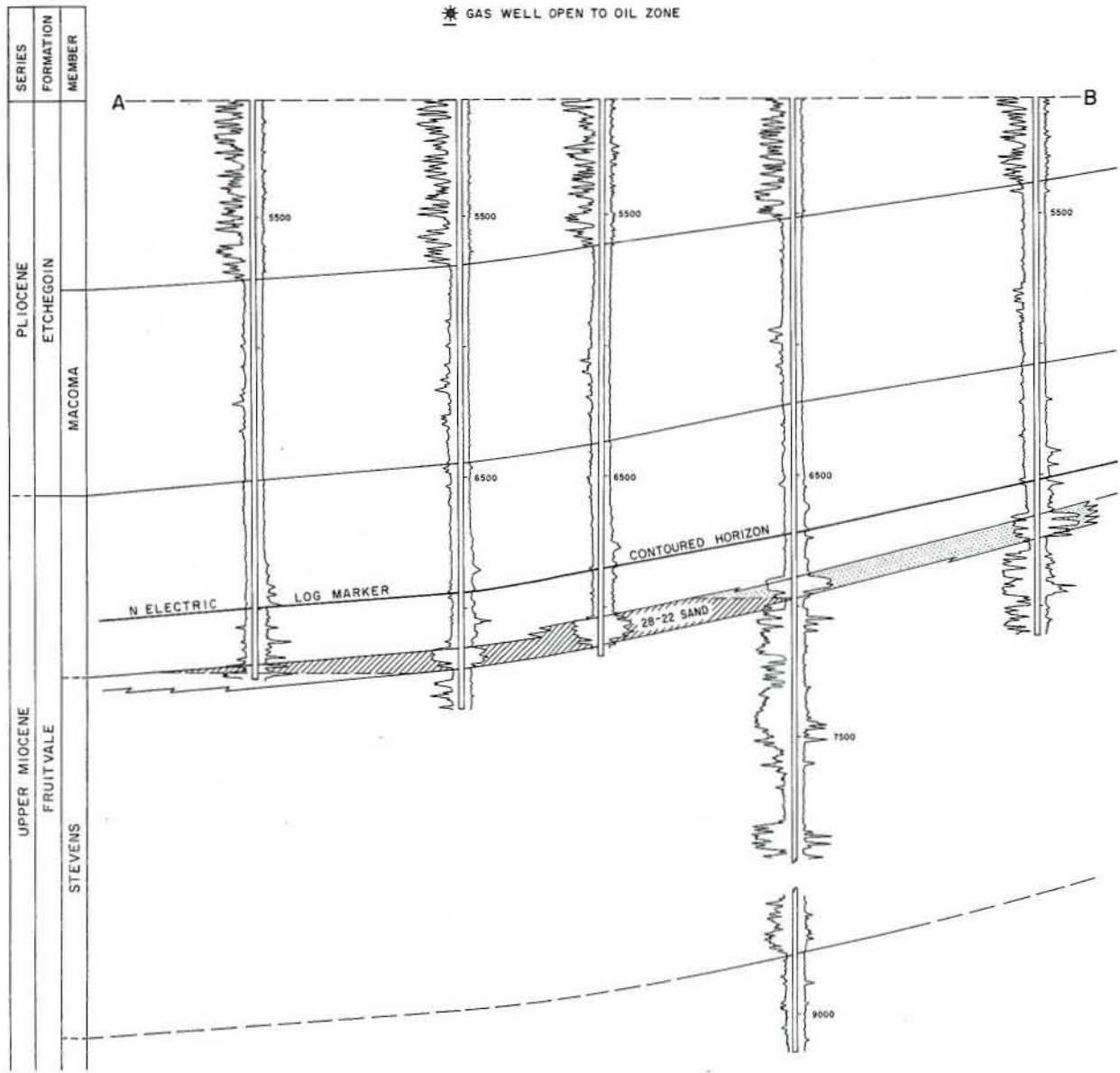
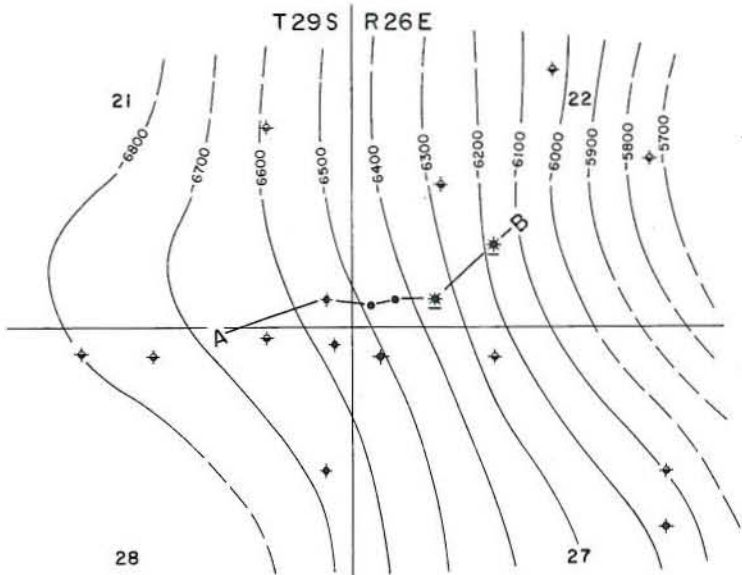
McLaughlin, R.P., Natural Gas Development in the Elk Hills, Kern County, Calif.: Calif. State Mining Bureau, Summary of Operations--Calif. Oil Fields, Vol. 4, May (1919).

Roberts, D.C., Fossil Markers of Midway-Sunset-Elk Hills Region in Kern County, Calif.: Calif. State Mining Bureau, Summary of Operations--Calif. Oil Fields, Vol. 12, Apr (1926).

Saunders, L.W., Recent Developments in the East End of the Elk Hills Oil Field: Calif. State Mining Bureau, Summary of Operations--Calif. Oil Fields, Vol. 10, May (1925).

Thoms, C.C. and F.M. Smith, Notes on Elk Hills Oil Field: Calif. State Mining Bureau, Summary of Operations--Calif. Oil Fields, Vol. 7, No. 1 (1921).

ENGLISH COLONY OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

ENGLISH COLONY OIL FIELD

Kern County

LOCATION: 8 miles west of Bakersfield

TYPE OF TRAP: Pinchouts of sands laterally and updip on an anticlinal nose.

ELEVATION: 350

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Harbaugh 64	William P. Hicks, Operator "Harbaugh" 64	Same as present	27 29S 26E	MD	3	0	Feb 1965
28-22	Standard Oil Co. of Calif. "KCL 55" 28-22	Standard Oil Co. of Calif. "KCL" 28-22	22 29S 26E	MD	360	5,500	Nov 1963
Brandt 11	Standard Oil Co. of Calif. "Brandt" 11-27	Same as present	27 29S 26E	MD	374	315	Jul 1964
83-28	Standard Oil Co. of Calif. "KCL 55" 83-28	Standard Oil Co. of Calif. "KCL" 83-28	28 29S 26E	MD	201	189	Mar 1964

Remarks: All four producing sands are in the Stevens member of Fruitvale formation.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL 55" 28-22	Standard Oil Co. of Calif. "KCL" 28-22	Oct 1963	22 29S 26E	MD	9,147	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Harbaugh 64	6,750	5	late Miocene	Fruitvale	29	N.A.	III
28-22	7,000	5 - 100	late Miocene	Fruitvale	34	1,450	III
Brandt 11	7,150	5	late Miocene	Fruitvale	32	N.A.	III
83-28	7,350	10	late Miocene	Fruitvale	35	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
26,201	29,981	12,497	30	2	1,180,615	4,042,106	363,102	1964	16	9	90

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
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SPACING ACT: Applies

BASE OF FRESH WATER: 3,000

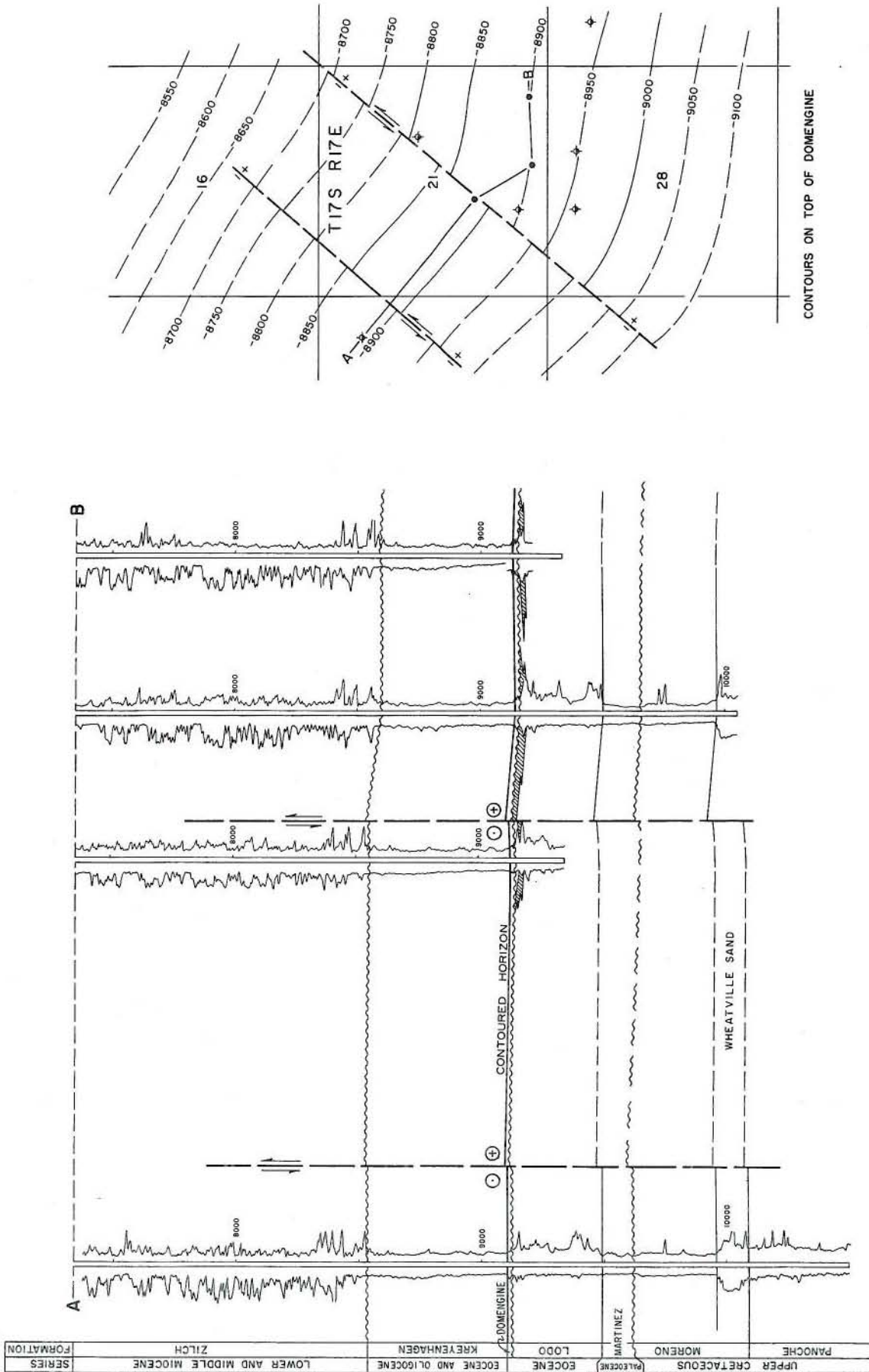
CURRENT CASING PROGRAM: 9 5/8" cem. 750; 5 1/2" cem. through zone, and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water is trucked to Greeley field for injection into a subsurface disposal system.

REMARKS: The field is being operated under State Oil and Gas Supervisor Order No. 64-1 as modified by the District Oil and Gas Commissioners.

REFERENCES: Hluza, A.G., English Colony Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 2 (1964).

# FIVE POINTS OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

FIVE POINTS OIL FIELD

Fresno County

LOCATION: 30 miles southwest of Fresno, 26 miles northeast of Coalinga

TYPE OF TRAP: Permeability variations and unconformity on a faulted homocline

ELEVATION: 225

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Eocene	Jayhawk Expl., Inc. "Air-Way Farms" 58-21	U.S. Smelting Refining & Mining Co. "Air-Way Farms" 58-21	21 17S 17E	MD	120	777	Mar 1966

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Western Continental Operating Co. "Everts" 72-20	Same	Sep 1963	20 17S 17E	MD	10,500	Panoche	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Eocene	9,150	40	Eocene	Lodo	31 - 41	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
12,714	16,949	640	70	2	162,457	327,244	42,552	1967	9	3	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,250 - 1,500

CURRENT CASING PROGRAM: 9 5/8" cem. 1,500; 5 1/2" cem. 9,250.

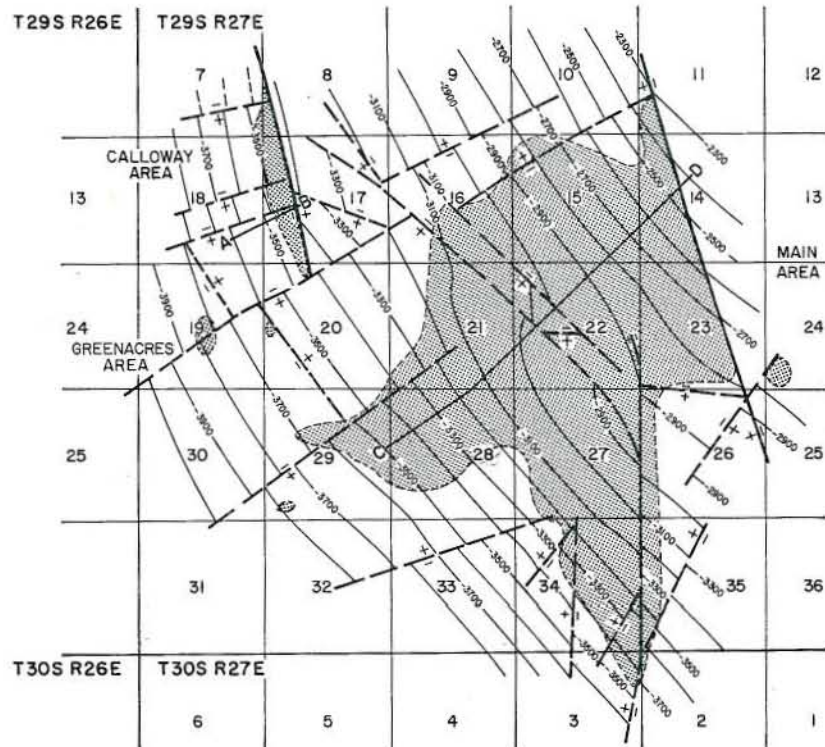
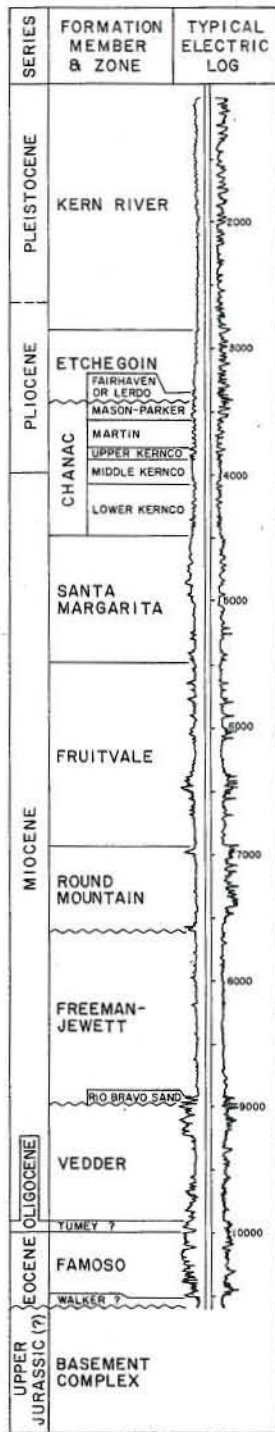
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

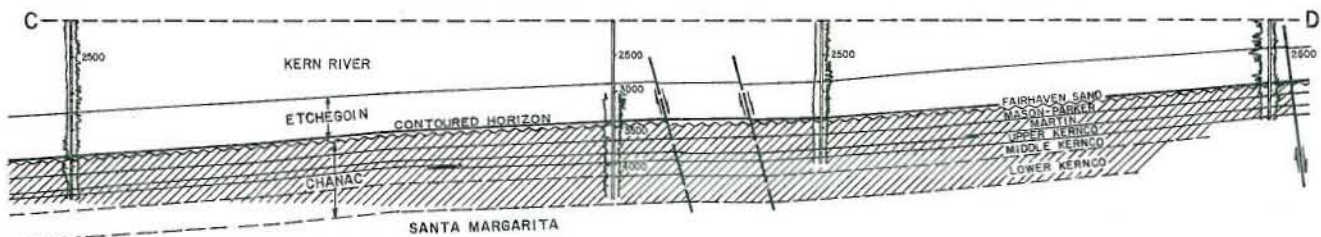
REFERENCES: Hill, F.L., Five Points Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 1 (1968).



# FRUITVALE OIL FIELD



CONTOURS ON TOP OF BASAL ETCHGOIN SAND (FAIRHAVEN OR LERDO)





## CALIFORNIA DIVISION OF OIL AND GAS

FRUITVALE OIL FIELD

Kern County

LOCATION: 1 mile west of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Fairhaven	Gulf Oil Corp. "KCL-B" 1	Pacific Eastern Production Co. "Fruitvale" 1	21 29S 27E	MD	170	N.A.	Feb 1928

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Signal Oil and Gas Co. "KCL" 33-34	Same	Nov 1955	34 29S 27E	MD	11,577	Granite	Lt Jur (?)

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,049,215	368,907	7,716,909	2,785	354	100,222,118	35,010,099	3,587,093	1954	721	609	3,580

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.

## CALIFORNIA DIVISION OF OIL AND GAS

CALLOWAY AREA

FRUITVALE OIL FIELD

Kern County

LOCATION: See map sheet of Fruitvale Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
40-7 42-0	Union Oil Co. of Calif. "KCL" 26-17	Same as present	17 29S 27E	MD	87	72	Sep 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Texaco Inc. "Camp-West-Lowe" 1	The Texas Co. "Camp-West-Lowe" 1	May 1938	7 29S 27E	MD	10,154	Granite	Lt Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
40-7	4,050	12	late Miocene	Chanac	N.A.	N.A.	II
42-0	4,150	24	late Miocene	Chanac	16 - 24	N.A.	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
37,043	17,138	845,633	150	10	1,396,864	488,926	237,396	1960	34	20	190

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,000

CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: 823,680 bbl. of waste water was injected during 1972 into one disposal well.

REMARKS:

REFERENCES: Hluzar, A.G., Calloway Area of Fruitvale Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 2 (1961).

# CALIFORNIA DIVISION OF OIL AND GAS

FRUITVALE OIL FIELD

GREENACRES AREA

Kern County

LOCATION: See map sheet of Fruitvale Oil Field

TYPE OF TRAP: Permeability barriers

ELEVATION: 400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Lerdo	Reed and Billington "Billington" 1	C.W. Teater "Billington" 1	19 29S 27E	MD	117	N.A.	Dec 1953
Chanac	Reed and Billington "Billington" 2	Trico Oil and Gas Co. "Billington" 2	19 29S 27E	MD	33	N.A.	Mar 1954

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Buttes Gas & Oil Co. "Denio Community" 1	Same	Jan 1964	19 29S 27E	MD	9,772	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Lerdo	4,300	60	Pliocene	Etchegoin	20	N.A.	II
Chanac	4,400	30	late Miocene	Chanac	19	N.A.	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	38,741	0	6,390	1954	7	3	20

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,500

CURRENT CASING PROGRAM: 11 3/4" cem. 300; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: The last producing well was abandoned November 1969.

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

FRUITVALE OIL FIELD

MAIN AREA

Kern County

LOCATION: See map sheet of Fruitvale Oil Field

TYPE OF TRAP: Faulted homocline with permeability variations

ELEVATION: 400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Fairhaven	Signal Oil and Gas Co. "Dixie Lee" 2	Dixie Lee Oil Co. No. 2	23 29S 27E	MD	160	N.A.	Mar 1936
Mason-Parker	Gulf Oil Corp. "KCL-B" 1	Pacific Eastern Production Co. "Fruitvale" 1	21 29S 27E	MD	170	N.A.	Feb 1928
Martin							
Santa Margarita	Michigan Oil Co. "KCL" 5-2	Standard Oil Co. of Calif. "KCL-S" 2	24 29S 27E	MD	68	N.A.	Dec 1929

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Signal Oil and Gas Co. "KCL" 33-34	Same	Nov 1955	34 29S 27E	MD	11,577	Granite	Lt Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Fairhaven	3,000	50	Pliocene	Etchegoin	17	15	II
Mason-Parker	3,100	170	Pliocene	Chanac	18	N.A.	II
Martin	3,250	190	Pliocene	Chanac	22	15	II
Upper Kernco	3,400	150	Pliocene	Chanac	22	370	II
Middle Kernco	3,600	210	Pliocene	Chanac	18	215	II
Lower Kernco	3,800	380	late Miocene	Chanac	15	N.A.	II
Santa Margarita	4,500	75	late Miocene	Santa Margarita	23	135	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,012,172	351,769	6,871,276	2,635	344	98,786,513	34,521,173	3,580,703	1954	680	586	3,370

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1962	9,712,859	4

SPACING ACT: Does not apply

BASE OF FRESH WATER: 3,000

CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

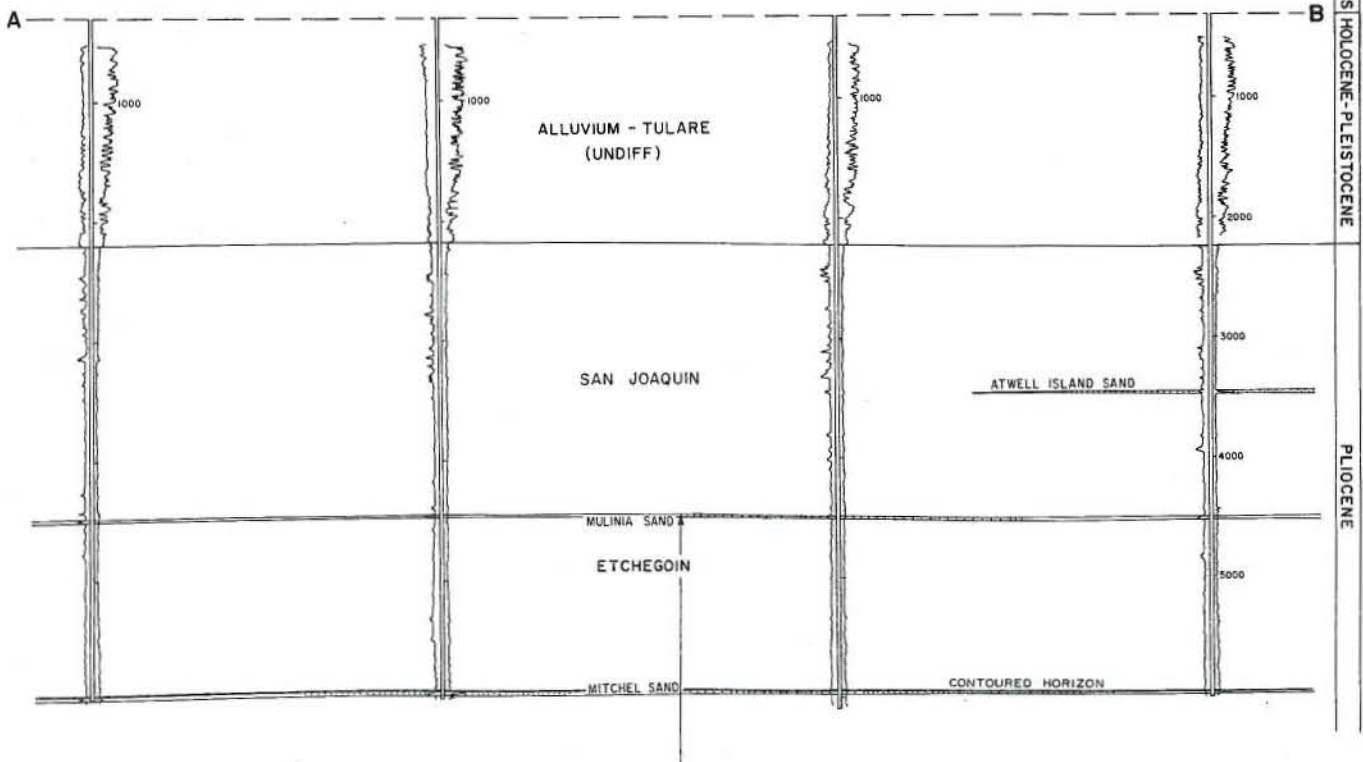
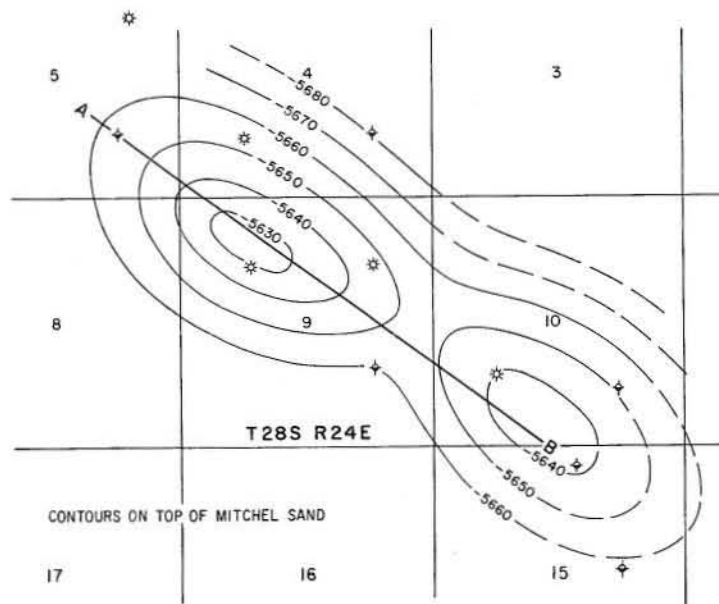
METHOD OF WASTE DISPOSAL: 5,929,832 bbl. of waste water was injected during 1972 into 5 disposal wells.

REMARKS:

REFERENCES: Hluza, A.G., Main Area of Fruitvale Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 51, No. 2 (1965).



# GARRISON CITY GAS FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

GARRISON CITY GAS FIELD (Abandoned)

Kern County

LOCATION: 20 miles northwest of Bakersfield

TYPE OF TRAP: Anticline

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Atwell Island	Golden Bear Oil Co. "K.C.L." 26X-10	Same as present	10 28S 24E	MD	1,960	1,280	1/4	Feb 1959
Mulinia	Golden Bear Oil Co. "Garrison City Unit C.W.O.D." 1	Same as present	4 28S 24E	MD	3,040	2,210	1/4	Feb 1959
Mitchel	Golden Bear Oil Co. "Garrison City Unit Mitchell" 1	Same as present	9 28S 24E	MD	1,990	2,200	3/16	Dec 1958

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "S.P.L." 51-15	General Petroleum Corp. of Calif. "S.P.L." 51-15	Sep 1941	15 28S 24E	MD	14,252	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Atwell Island	3,450	10	Pliocene	San Joaquin	1,010	N.A.	1,280	III
Mulinia	4,500	15	Pliocene	Etchegoin	1,020	N.A.	2,240	III
Mitchel	5,970	25	Pliocene	Etchegoin	1,040	1,500	2,250	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	2,622,314	464,118	1959	14	5	800

SPACING ACT: Applies

BASE OF FRESH WATER: 1,550

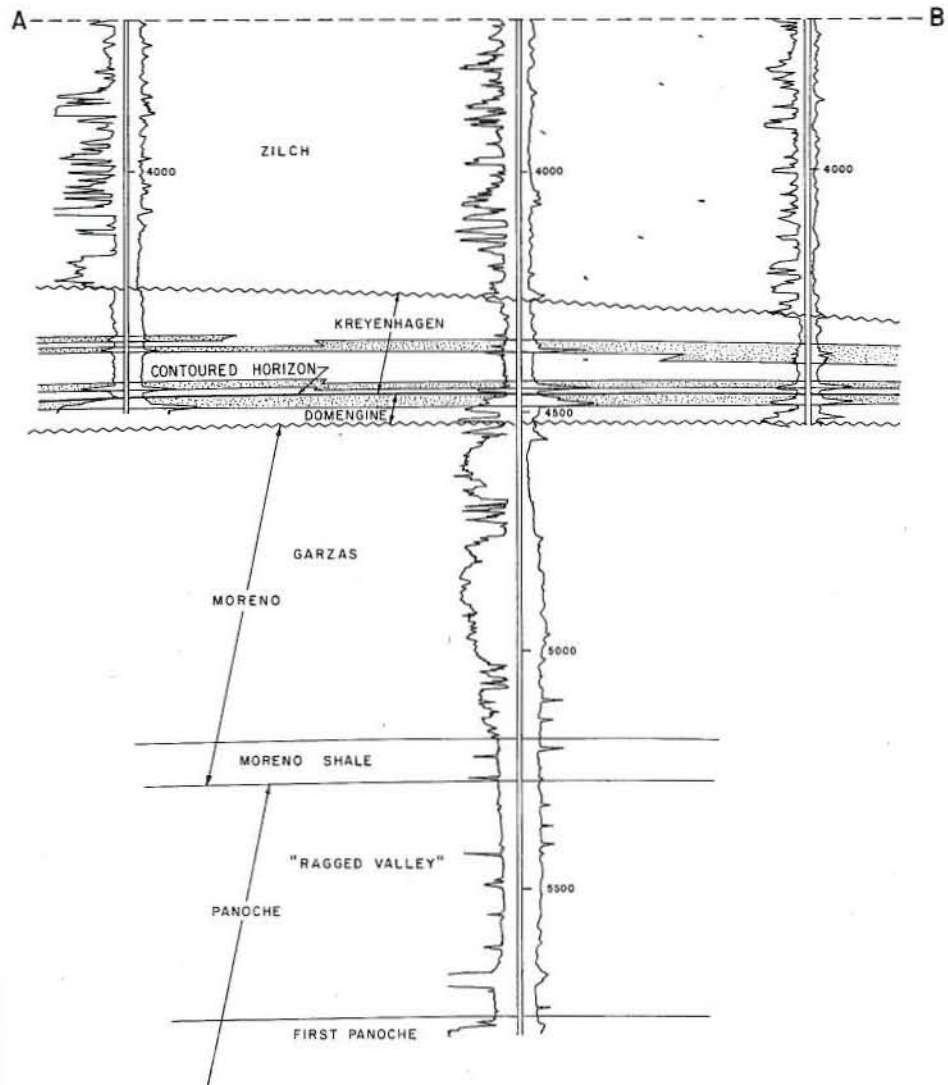
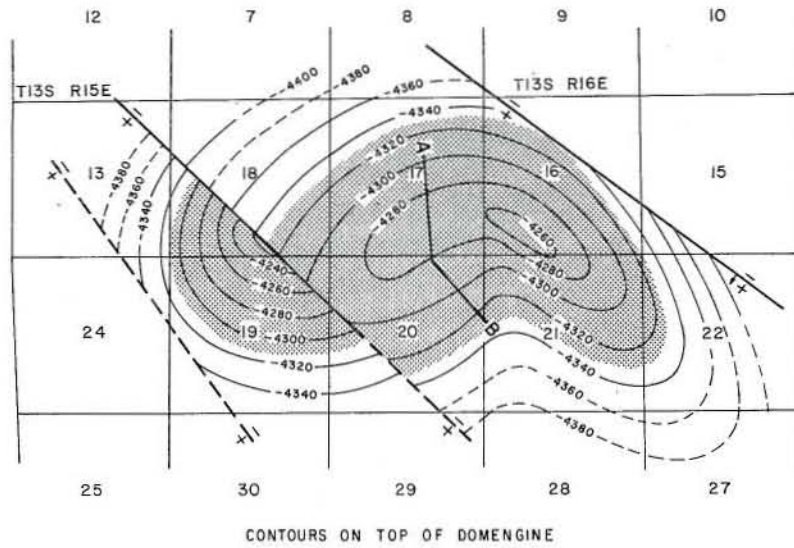
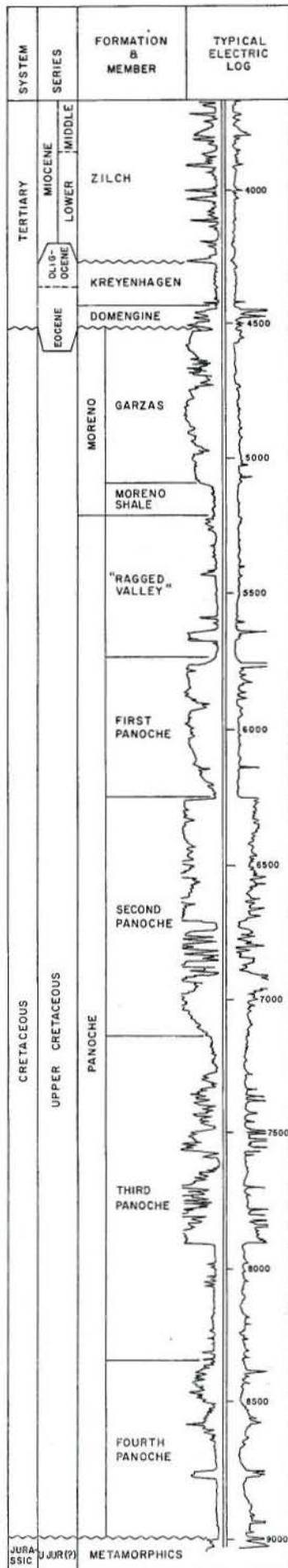
CURRENT CASING PROGRAM: 9 5/8" cem. 600; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The last producing well was abandoned in 1969.

REFERENCES: Land, P.E., Garrison City Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 2 (1959).

# GILL RANCH GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

GILL RANCH GAS FIELD  
Fresno and Madera Counties

LOCATION: 25 miles northwest of Fresno

TYPE OF TRAP: Anticline with major faulting

ELEVATION: 185

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Eocene	Texaco Inc. "Gill" 38-16	The Texas Co. "Gill" 38-16	16 13S 16E	MD	11,000	825	43/64	Apr 1943
Cretaceous	Same as above	Same as above	16 13S 16E	MD	4,258	1,874	5/16	Sep 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Texaco Inc. "Gill" 38-16	The Texas Co. "Gill" 38-16	Dec 1942	16 13S 16E	MD	9,154	Basement (serpentine)	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Eocene	4,430	45	Eocene	Kreyenhagen & Domengine	935	1,500	1,775	IV
Cretaceous	5,630	40	Lt Cretaceous	Moreno & Panoche	N.A.	1,210	2,245	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
680,575	62,519	945	11	57,515,655	2,781,135	1949	29	22	945

SPACING ACT: Applies

BASE OF FRESH WATER: 700

CURRENT CASING PROGRAM: 9 5/8" cem 800; 4 1/2" cem 4,500 - 5,800.

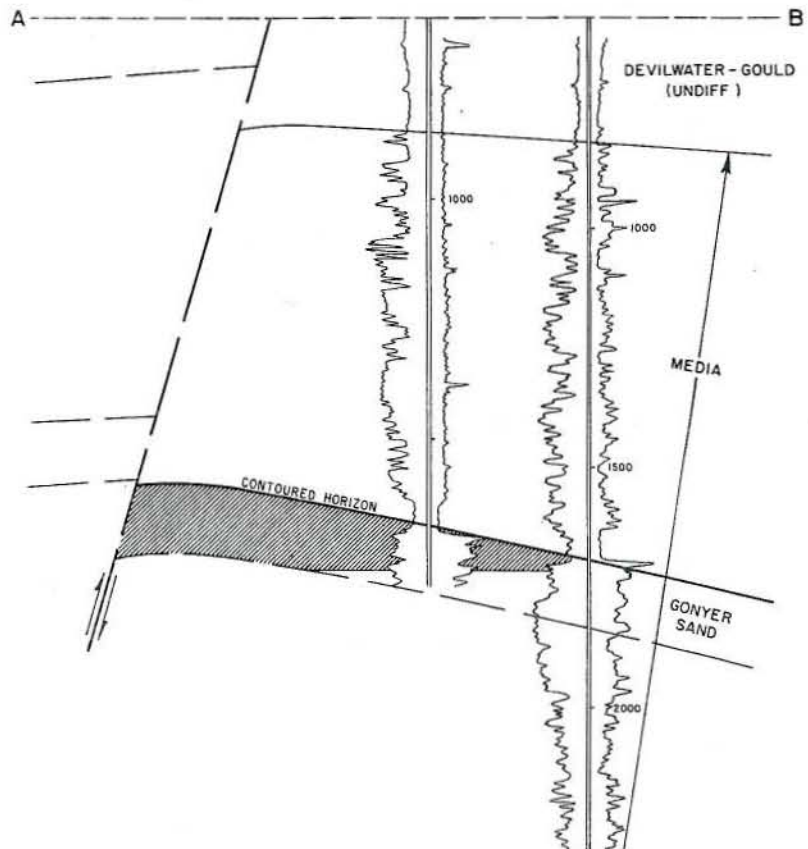
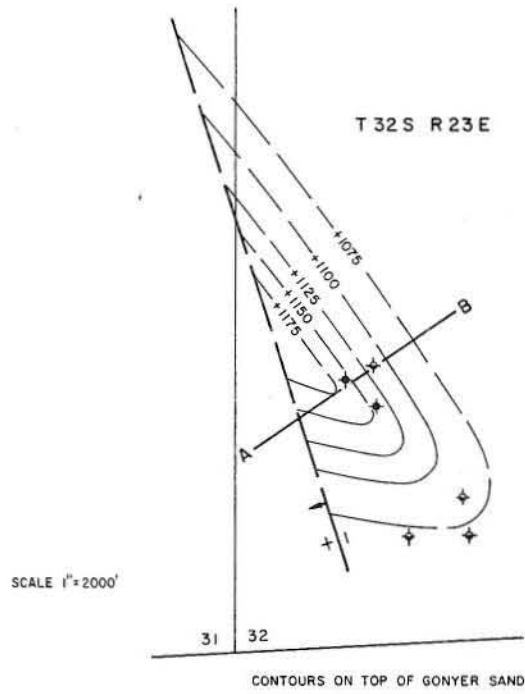
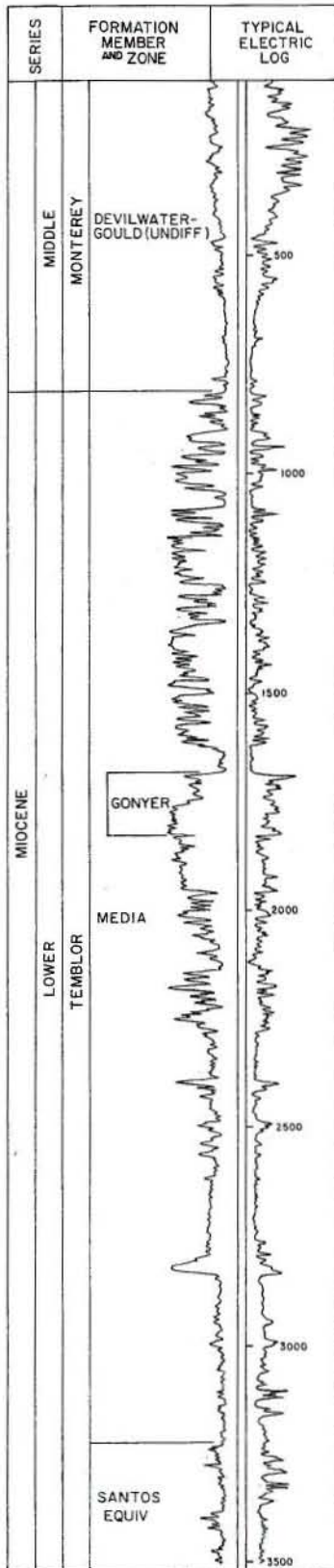
METHOD OF WASTE DISPOSAL: All water is injected.

REMARKS: Sands included in the Eocene productive zone are the Nortonville, Main and Green (Domengine). Sands included in the Cretaceous productive zone are the Moreno "14-20", Panoche "21-20" and First Panoche.

REFERENCES: Loken, K.P., Gill Ranch Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 1 (1959).



# GONYER ANTICLINE OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

GONYER ANTICLINE OIL FIELD (Abandoned)

Kern County

LOCATION: 5 miles southwest of Taft

TYPE OF TRAP: Faulted anticline

ELEVATION: 2,900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Gonyer	Crown Central Petroleum Corp. "Gonyer U.S.L." 1	Continental Oil Co. "Gonyer U.S.L." 1	32 32S 23E	MD	42	55	Oct 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Gonyer" 1	Same	Dec 1929	32 32S 23E	MD	4,134	Media	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Gonyer	1,700	450	early Miocene	Temblor	12	N.A.	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	2,502	3,975	1,816	1957	6	2	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

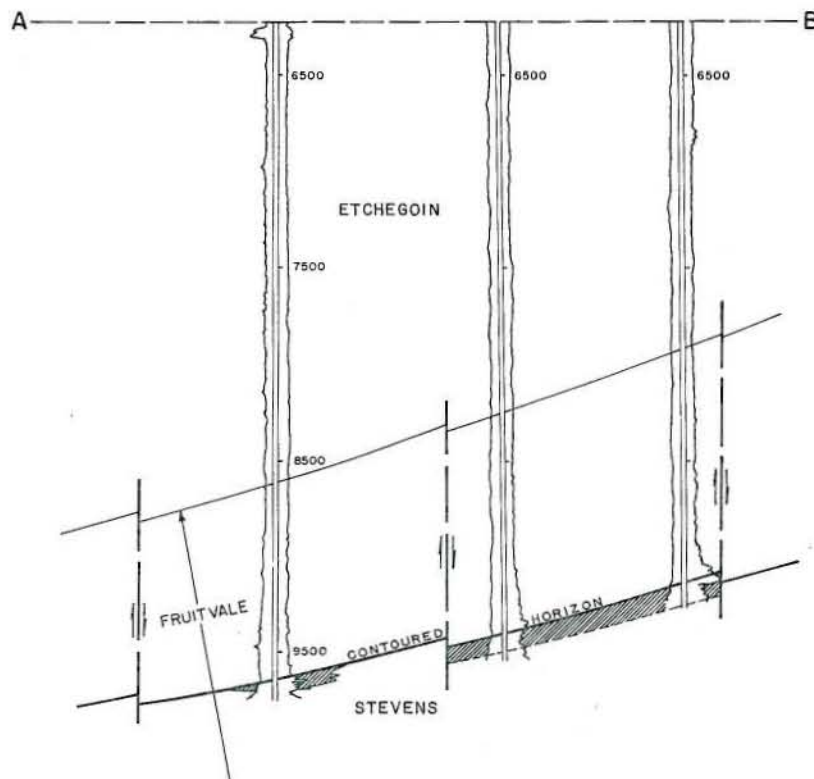
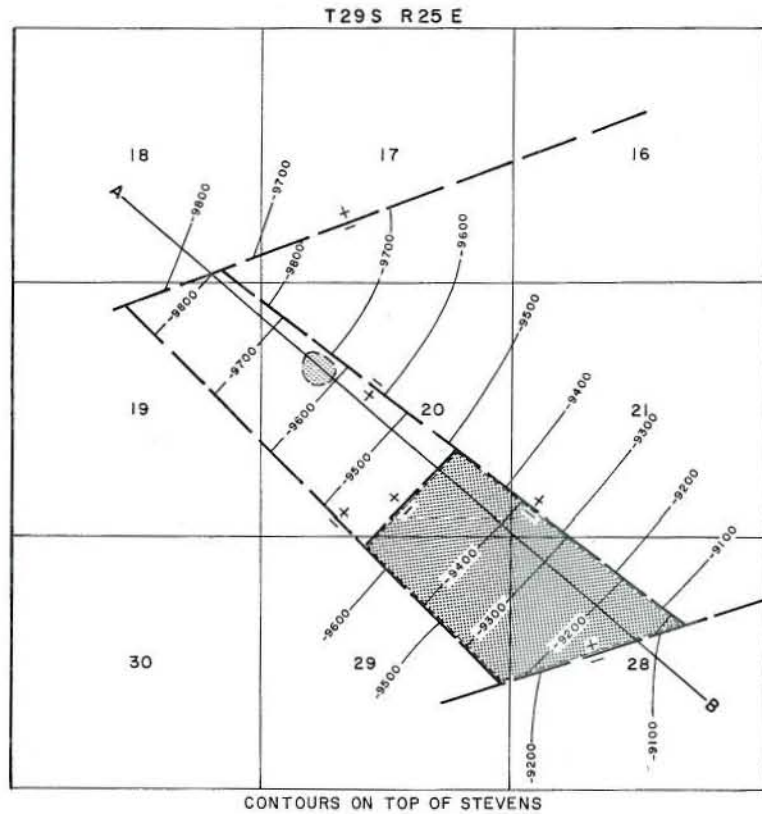
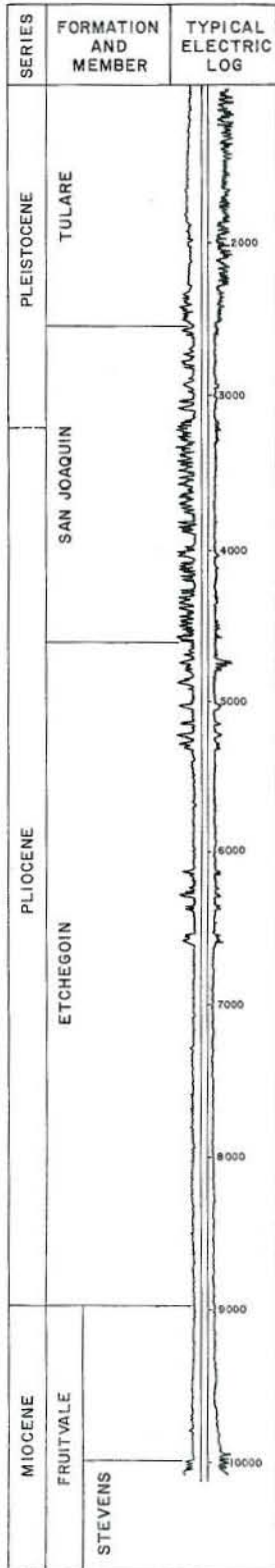
CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: Produced commercially only after sand was fractured. Field was abandoned August 1962.

REFERENCES:

# GOOSLOO OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

GOOSLOO OIL FIELD

Kern County

LOCATION: 16 miles west of Bakersfield

TYPE OF TRAP: Faulted homocline; permeability variations

ELEVATION: 310

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Texaco Inc. "KCL Goosloo" 1	The Texas Co. "KCL Goosloo" 1	20 29S 25E	MD	45	70	Jan 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Texaco-SP" 15-21	Same	Sep 1965	21 29S 25E	MD	10,648	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Stevens	9,500 - 10,000	30 - 130	late Miocene	Fruitvale	36 - 42	1,390	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
60,998	65,455	265,814	70	4	76,518	87,308	60,998	1972	9	5	80

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,250

CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" combination string landed through zone and cem. through ports above zone and across base of fresh-water sands.

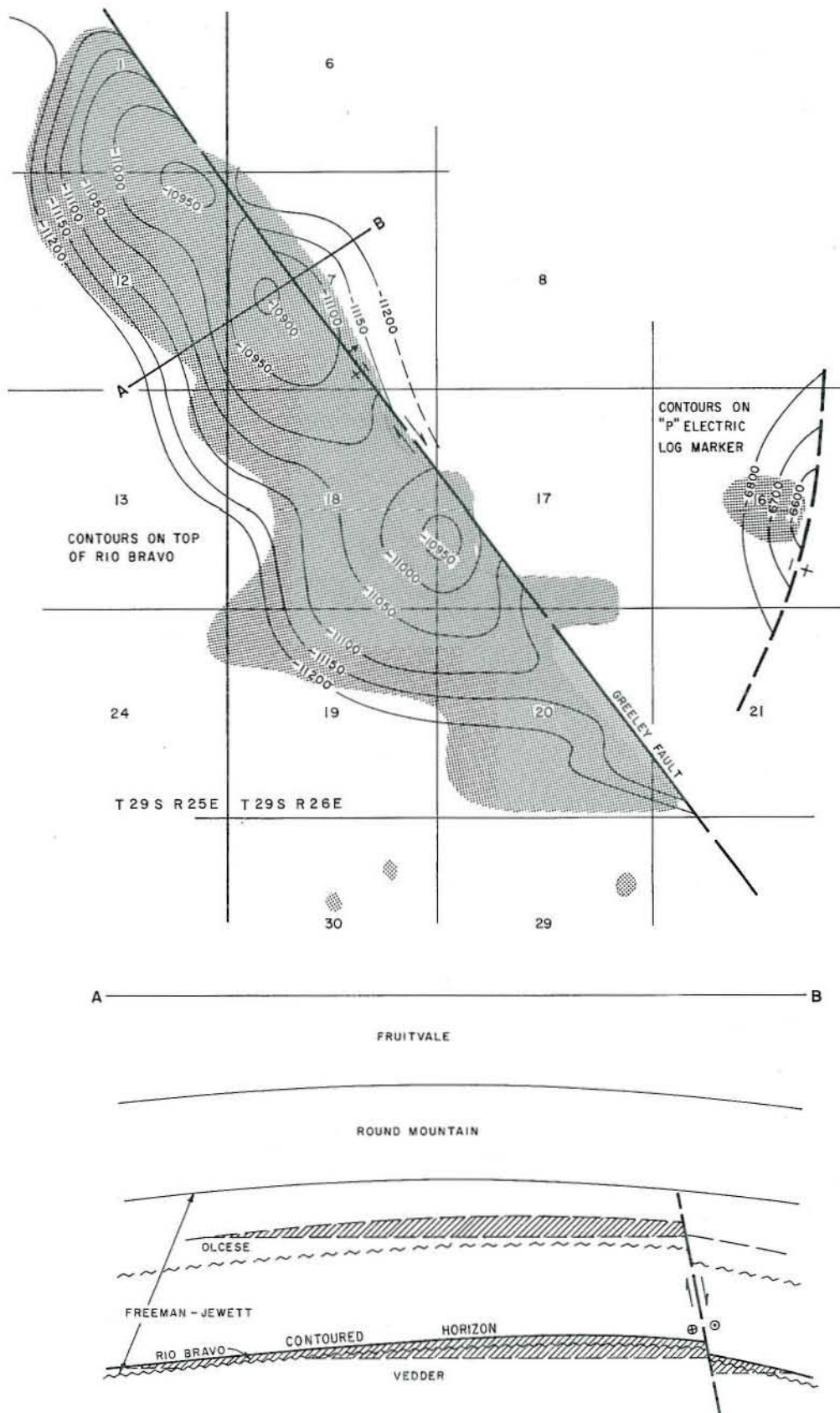
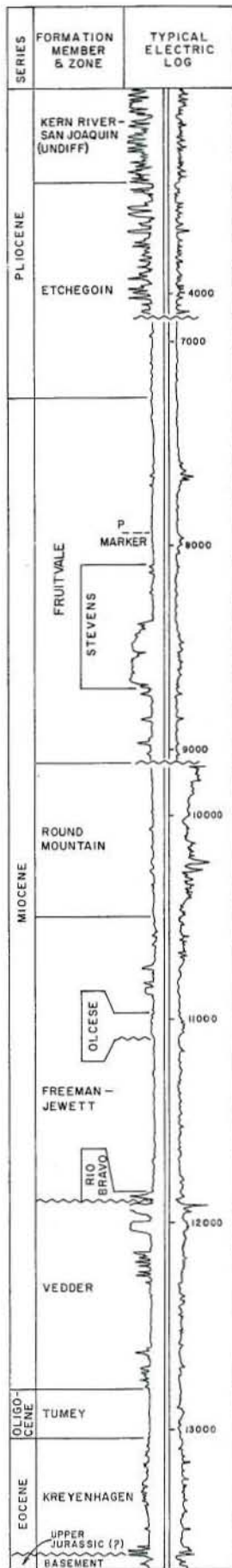
METHOD OF WASTE DISPOSAL: Water is trucked to Greeley field for disposal in subsurface project.

REMARKS: Field abandoned December 1952. Reactivated September 1971.

REFERENCES:



# GREELEY OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

GREELEY OIL FIELD

Kern County

LOCATION: 10 miles west of Bakersfield

TYPE OF TRAP: Faulted anticline

ELEVATION: 335

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens Olcese 12-21	Standard Oil Co. of Calif. "KCL 63" 81-19 Tenneco West, Inc. 115	Standard Oil Co. of Calif. "K.C. 11" 1 Standard Oil Co. of Calif. "K.C.L. Lease 12" 21	19 29S 23E	MD	2,456	1,390	Dec 1936
			7 29S 26E	MD	192	N.A.	Feb 1949
Rio Bravo - Vedder	Standard Oil Co. of Calif. "KCL 63" 12-20	Standard Oil Co. of Calif. "K.C. 11" 2	20 29S 23E	MD	3,456	3,090	Jun 1938

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL Lease 12" 6	Standard Oil Co. of Calif. "K.C. 12" 6	Dec 1938	30 29S 26E	MD	13,666	Basement (gabbro)	Lt Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	7,300	175	late Miocene	Fruitvale	36	1,380	IV
Olcese 12-21	10,530	150	early Miocene	Jewett	34	1,900	IV
Rio Bravo - Vedder	11,300	100	early Miocene	Vedder	36	980	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
775,868	472,361	2,433,406	1,780	36	106,634,915	96,821,859	5,210,434	1944	174	138	2,240

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1952	45,668,252	7
Gas injection for pressure maintenance	1948	85,637,745	3

SPACING ACT: Applies

BASE OF FRESH WATER: 2,400

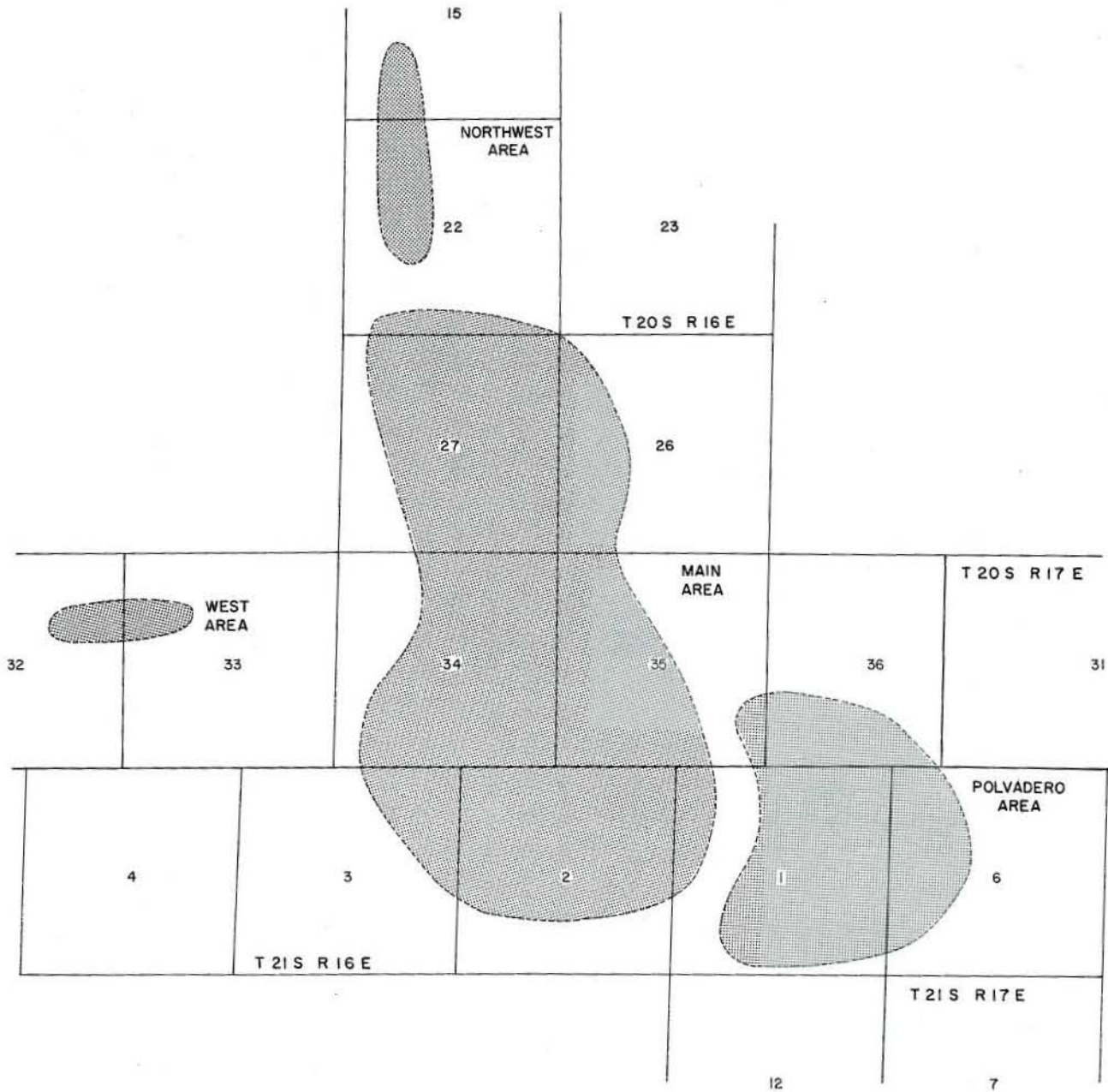
CURRENT CASING PROGRAM: 13 3/8" cem. 1,200; 7" cem. above zone; 5" liner landed through zone.

METHOD OF WASTE DISPOSAL: All waste water was injected during 1972 into water flood and water disposal wells.

REMARKS: Rio Bravo - Vedder zone has been operated under unit agreement since 1947.

REFERENCES: Updike, F.H., Greeley Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 27 (1941).  
 Welge, E.A., Olcese 12-21 Pool of Greeley Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 56, No. 1 (1970).

GUIJARRAL HILLS OIL FIELD  
Index Map



## CALIFORNIA DIVISION OF OIL AND GAS

GUIJARRAL HILLS OIL FIELD

Fresno County

LOCATION: 6 - 10 miles east of Coalinga

TYPE OF TRAP: See areas

ELEVATION: 480 - 680

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Leda	Sun Oil Co. "Fred Smith" 88-34	Barnsdall Oil Co. "Fred Smith" 1	34 20S 16E	MD	827	610	Sep 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif., Opr. "Polvadero Unit" 42-1	Los Nietos Co., "Webster" 42-1	Aug 1955	1 21S 16E	MD	11,650	Moreno	Late Cret

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
177,191	456,510	202,463	1,520	18	49,143,322	75,785,906	5,414,429	1950	220	187	2,515

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: See areas

CURRENT CASING PROGRAM: See areas

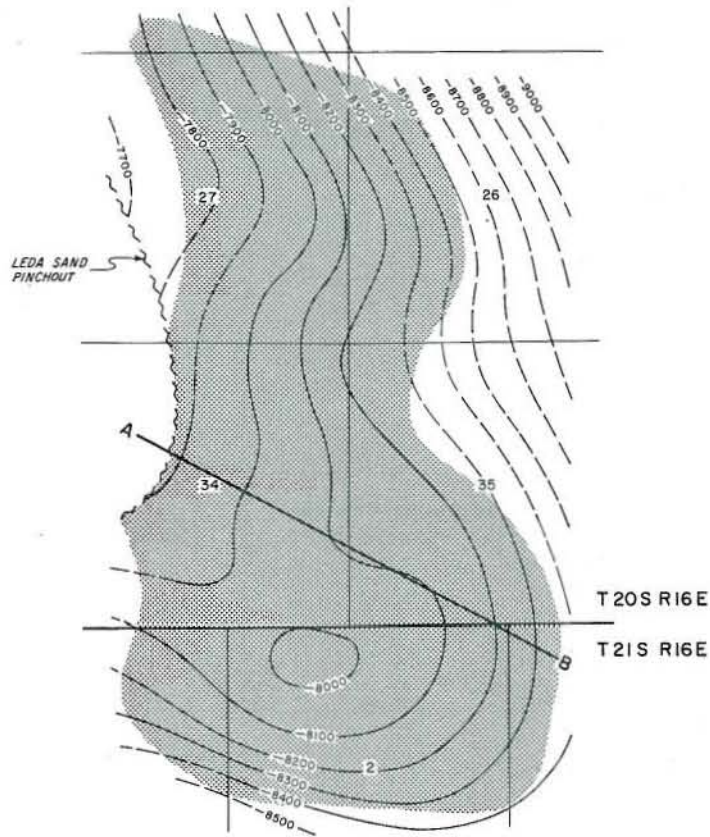
METHOD OF WASTE DISPOSAL: See areas

REMARKS:

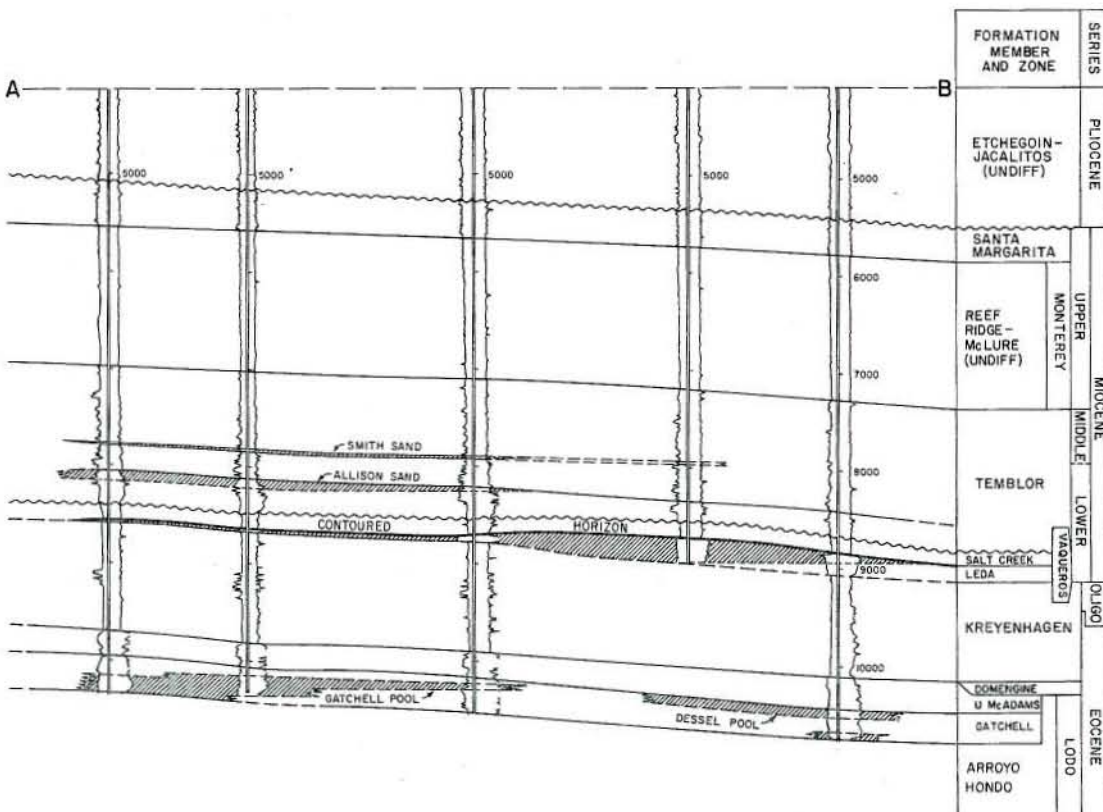
REFERENCES: See areas



# GUIJARRAL HILLS OIL FIELD Main Area



CONTOURS ON TOP OF LEDA SAND  
SCALE: 1" = 3520 FT



# CALIFORNIA DIVISION OF OIL AND GAS

GUIJARRAL HILLS OIL FIELD

MAIN AREA

Fresno County

LOCATION: See index map of Gujarral Hills Oil Field

TYPE OF TRAP: Permeability variations on the Coalinga anticline

ELEVATION: 630

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Smith	Sun Oil Co. "Fred Smith" A76-34	Sunray Oil Corp. "Fred Smith" A76-34	34 20S 16E	MD	533	267	Apr 1955
Allison	Sun Oil Co. "Allison" A 73-34	Sunray Oil Corp. "Allison" A 73-34-2	34 20S 16E	MD	423	265	Apr 1949
North Leda	Standard Oil Co. of Calif., Opr. "Spieler" 27-26	Union Oil Co. of Calif. "Spieler" 27-26	26 20S 16E	MD	1,300	937	Jan 1954
Leda	Sun Oil Co. "Fred Smith" 88-34	Barnsdall Oil Co. "Fred Smith" 1	34 20S 16E	MD	827	610	Sep 1948
Gatchell	L.A. Harnish, Opr. "Allison" E53-34F	L.A. Harnish, Opr. "Allison" E53-34F	34 20S 16E	MD	1,565	725	May 1957
Dessel	Sun Oil Co. "Dessel" E81-2	Sunray DX Oil Co. "Dessel" 81-2	2 21S 16E	MD	1,176	645	Nov 1962

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Sun Oil Co. "Dessel" 41-2	Barnsdall Oil Co. "Dessel" 41-2-19	Feb 1950	2 21S 16E	MD	11,441	Moreno	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Smith	7,900	20	early Miocene	Temblor	34 - 37	460	III
Allison	8,100	50	early Miocene	Temblor	36 - 38	2,830	III
North Leda	8,500	150	early Miocene	Vaqueros	35 - 38	1,255	III
Leda	8,700	200	early Miocene	Vaqueros	33 - 37	1,550	III
Gatchell	10,200	150	Eocene	Lodo	27 - 33	140	IV
Dessel	10,500	50	Eocene	Lodo	27 - 29	190	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
151,861	380,299	200,868	920	14	42,308,232	66,294,058	5,414,429	1950	158	144	1,790

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000 - 2,500

CURRENT CASING PROGRAM: Temblor: 10 5/8" cem.500; 5 1/2" cem.through zone. Leda and Gatchell: 10 5/8" cem.500; 7" cem.8,500 - 10,300; 5 1/2" liner

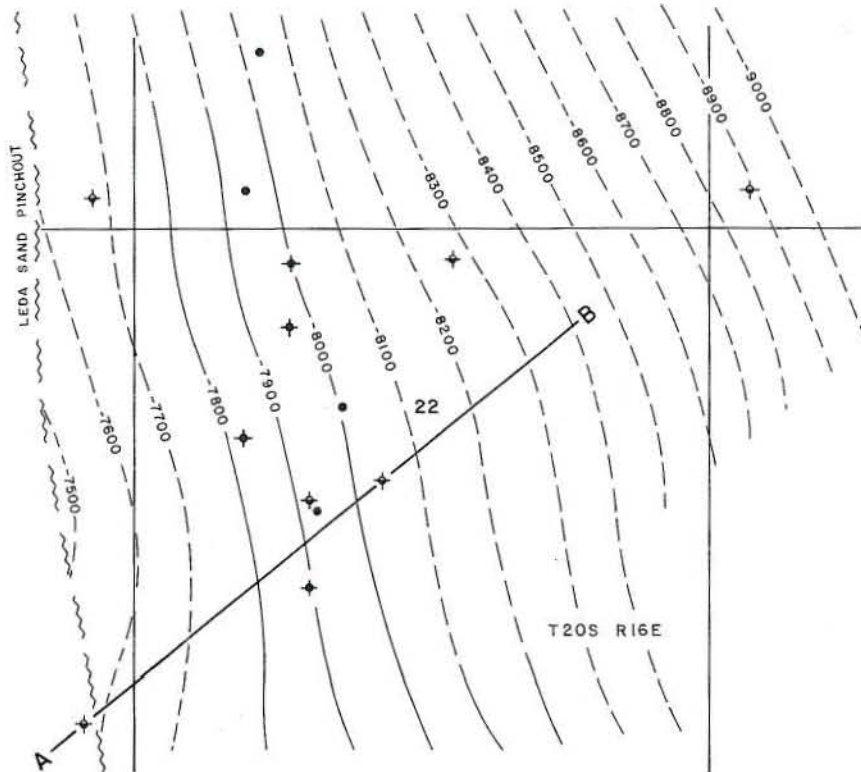
landed through zone.

METHOD OF WASTE DISPOSAL: Evaporative sumps.

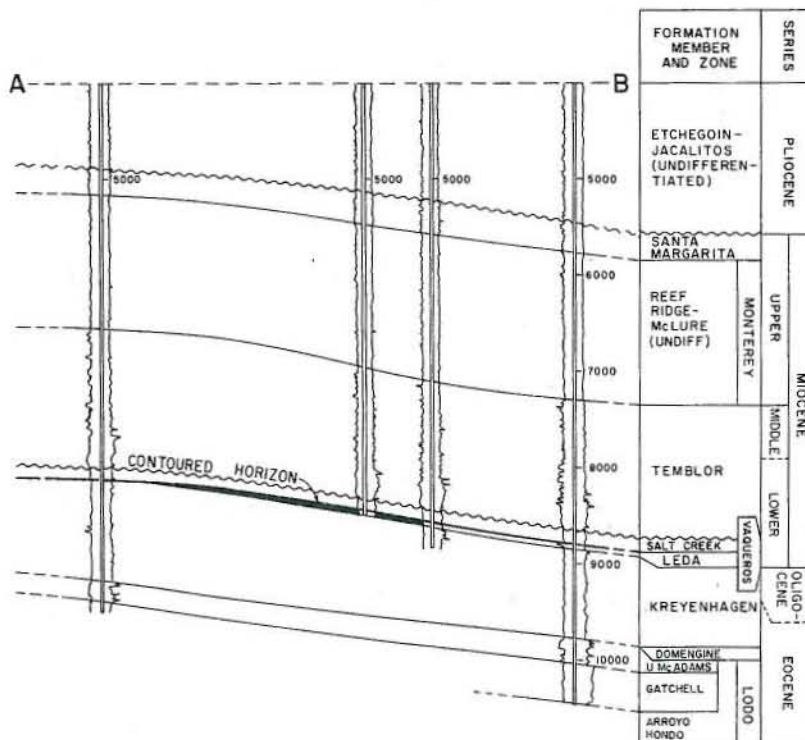
REMARKS: The Allison pool has been shut in since 1970. Between 1957 and 1966 23,966,997 Mcf of gas was injected in the North Leda pool to maintain reservoir pressure.

REFERENCES: Hunter, G.W., Gujarral Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 37, No. 1 (1951). Sullivan, J.C., Gujarral Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).

# GUIJARRAL HILLS OIL FIELD Northwest Area



CONTOURS ON TOP OF LEDA SAND  
SCALE: 1"=1750 FT



# CALIFORNIA DIVISION OF OIL AND GAS

GUIJARRAL HILLS OIL FIELD

NORTHWEST AREA

Fresno County

LOCATION: See index map of Gujarral Hills Oil Field

TYPE OF TRAP: Sand pinchout

ELEVATION: 490

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Leda	Leda Petroleum Co. "Gujarral Service Co." 24X-22F	Same as present	22 20S 16E	MD	24	205	Jun 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Gujarral Service Co." 51-22F	Same as present	Nov 1952	22 20S 16E	MD	10,421	Arroyo Hondo	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Leda	8,400	25	early Miocene	Vaqueros	35 - 38	1,430	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,714	2,820	58	50	1	283,624	375,681	79,673	1962	11	8	125

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

CURRENT CASING PROGRAM: 9 5/8" cem.500; 5 1/2" cem.8,500, selectively perforated.

METHOD OF WASTE DISPOSAL:

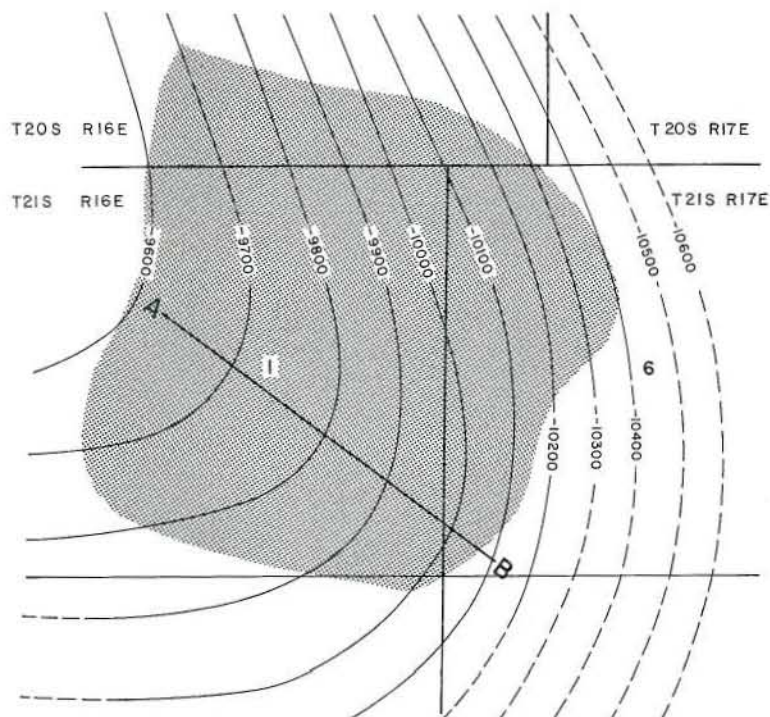
REMARKS:

REFERENCES: Sullivan, J.C., Gujarral Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).

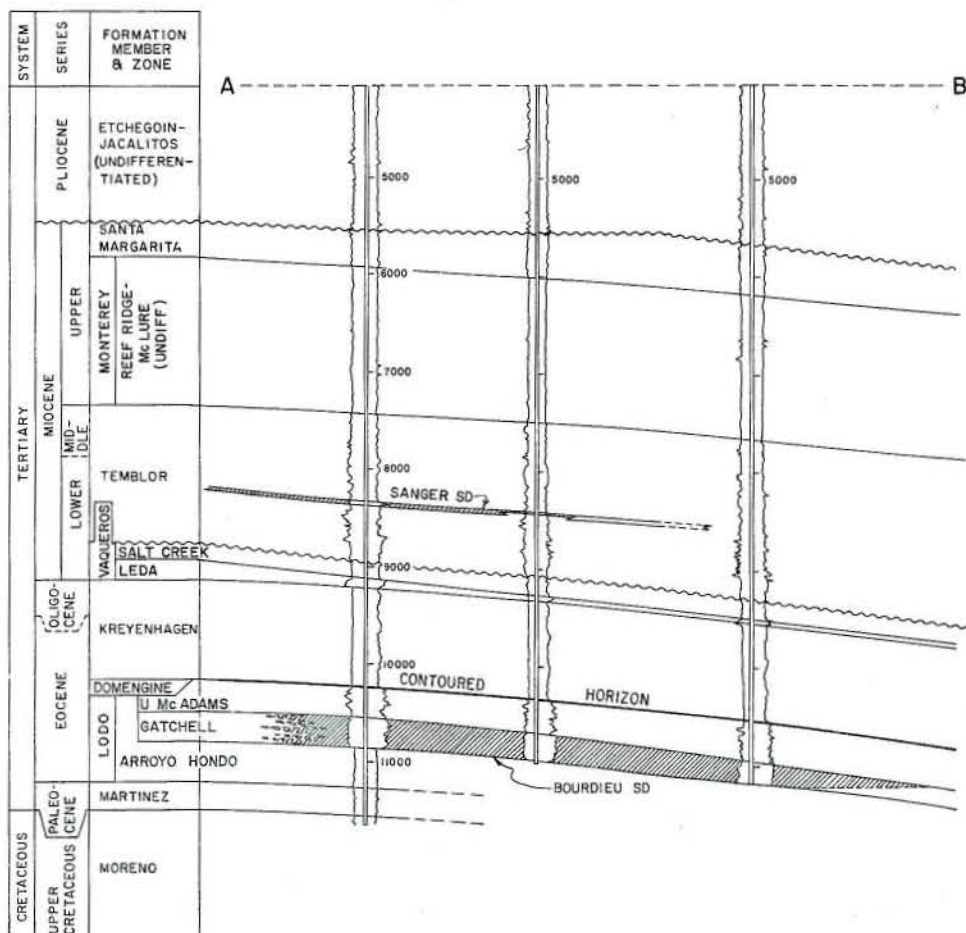


# GUIJARRAL HILLS OIL FIELD

## Polvadero Area



CONTOURS ON TOP OF DOMENGINE  
SCALE: 1" = 2500 FT



# CALIFORNIA DIVISION OF OIL AND GAS

POLVADERO AREA

GUIJARRAL HILLS OIL FIELD

Fresno County

LOCATION: See index map of Gujarral Hills Oil Field

TYPE OF TRAP: Permeability barriers on the Coalinga anticline

ELEVATION: 530

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Sanger	The Superior Oil Co. "Sanger" 4-1	Same as present	1 21S 16E	MD	133	N.A.	May 1953
Bourdieu	Union Oil Co. of Calif., Opr. "Polvadero Unit" 55-1	Los Nietos Co. "Bourdieu" 55-1	1 21S 16E	MD	1,608	1,370	Feb 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif., Opr. "Polvadero Unit" 42-1	Los Nietos Co., "Webster" 42-1	Aug 1955	1 21S 16E	MD	11,650	Moreno	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Sanger	8,350	20	early Miocene	Temblor	28 - 33	460	III
Bourdieu	10,700	250	Eocene	Lodo	27 - 33	405	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
20,616	73,391	1,537	550	3	5,799,042	8,572,345	1,145,258	1956	37	31	560

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500 - 2,800

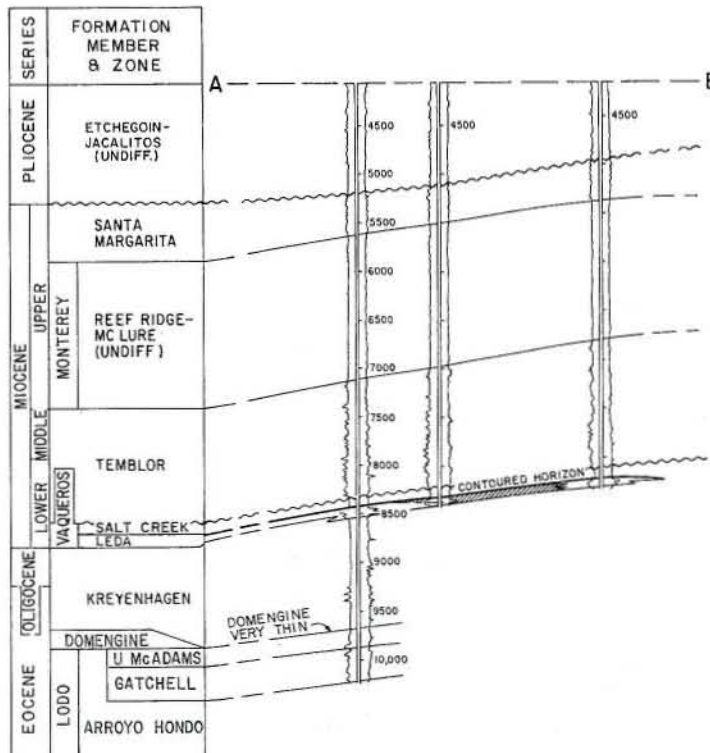
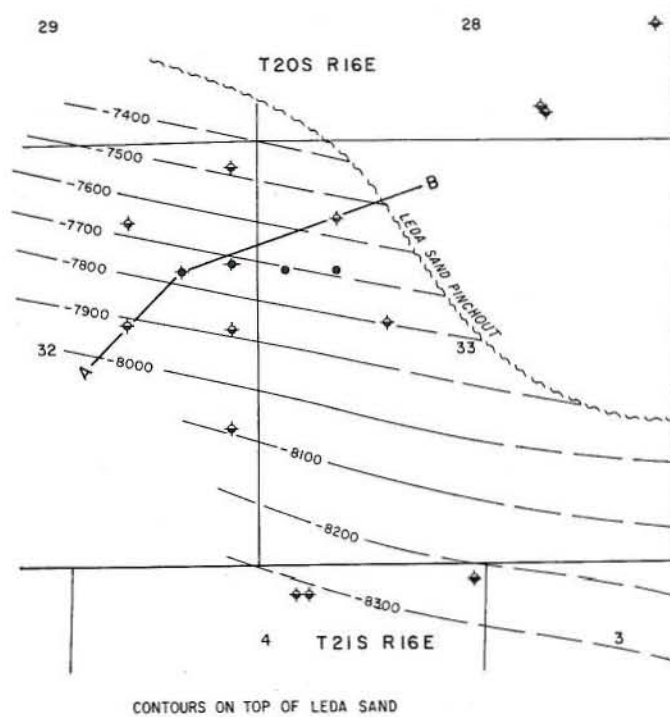
CURRENT CASING PROGRAM: 11 3/4" cem 500; 7" combination string landed through zone and cem through ports above zone (Bourdieu completions).

METHOD OF WASTE DISPOSAL:

REMARKS: Sanger pool has been shut in since 1959. Between 1959 and 1962 a total of 38,368,483 gallons of nonindigenous propane was injected in a miscible-phase flood of the Bourdieu pool. A total of 17,761,082 Mcf of dry gas was injected in conjunction with the propane and as a separate pressure maintenance project.

REFERENCES: Sullivan, J.C., Gujarral Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).

# GUIJARRAL HILLS OIL FIELD West Area



# CALIFORNIA DIVISION OF OIL AND GAS

GUIJARRAL HILLS OIL FIELD

WEST AREA

Fresno County

LOCATION: See index map of Gujarral Hills Oil Field

TYPE OF TRAP: Sand pinch out on the Coalinga anticline

ELEVATION: 600

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Leda	Lloyd A. Harnish, Opr. 73	Same	32 20S 16E	MD	1,390	585	Oct 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Sam B. Herndon, Opr. "Herndon" 3	Same	Sep 1961	4 21S 16E	MD	10,755	Gatchell sand	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Leda	8,330	30	early Miocene	Vaqueros	35 - 38	1,200	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	752,424	543,822	425,008	1954	14	4	40

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

CURRENT CASING PROGRAM: 10 5/8" cem.500; 7" cem.8,300; 5 1/2" liner landed through zone.

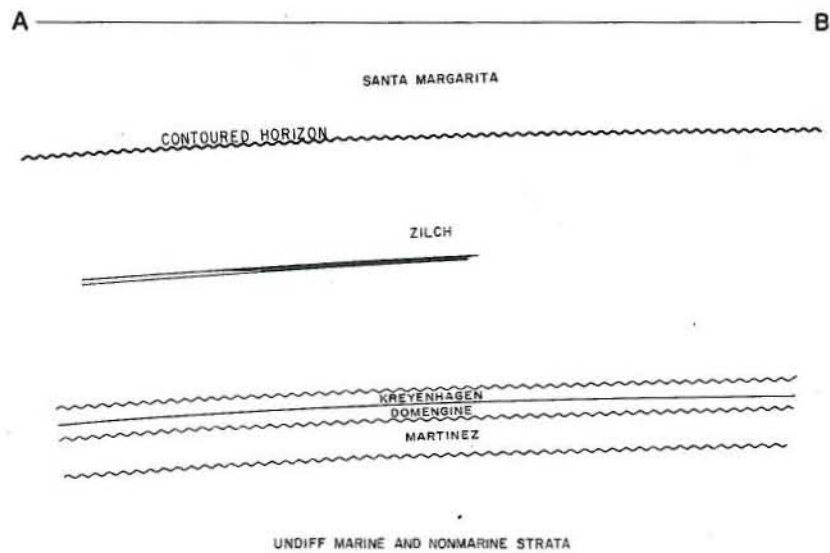
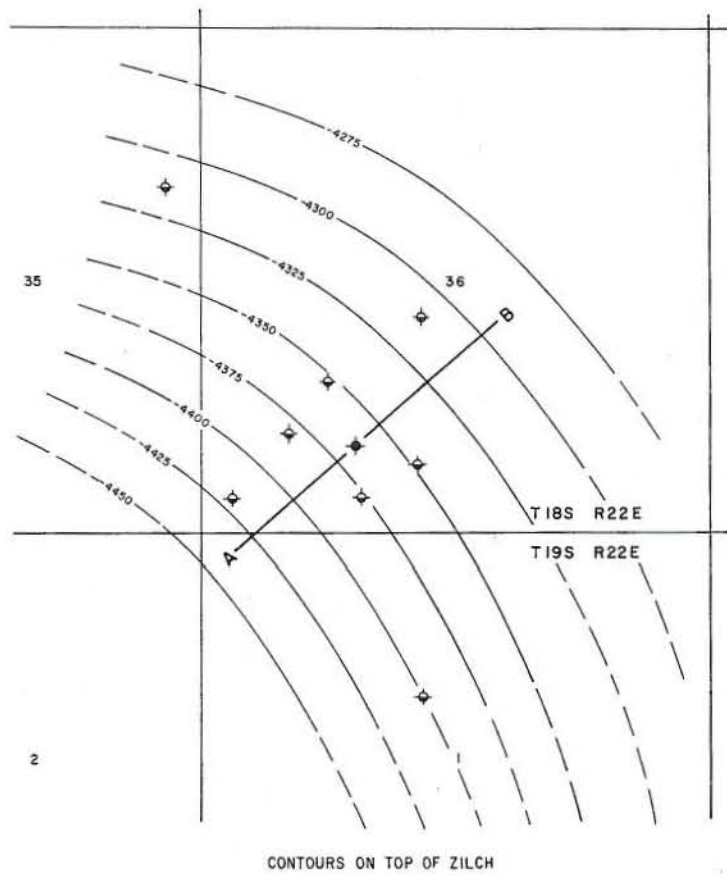
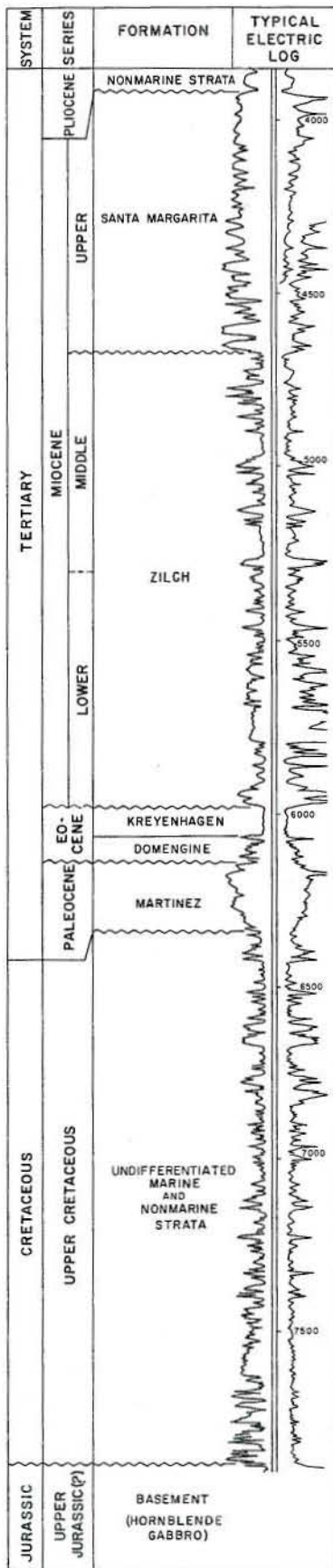
METHOD OF WASTE DISPOSAL:

REMARKS: The West Area has been shut in since 1966.

REFERENCES: Sullivan, J.C., Gujarral Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 2 (1962).



# HANFORD OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

HANFORD OIL FIELD (Abandoned)

Kings County

LOCATION: 6 miles east of Hanford

TYPE OF TRAP: Lenticular sand on a homocline

ELEVATION: 245

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Zilch	Albercalif Petroleum Ltd. "Hanford" 1	Goshen Syndicate "Drummond-Union" 2	36 18S 22E	MD	125	N.A.	Jul 1950

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Continental Oil Co. "Drummond" 1	Same	Sep 1942	36 18S 22E	MD	7,897	Basement (hornblende gabbro)	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Zilch	5,250	8	early Miocene	Zilch	18	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	3,582	0	3,223	1950	7	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200

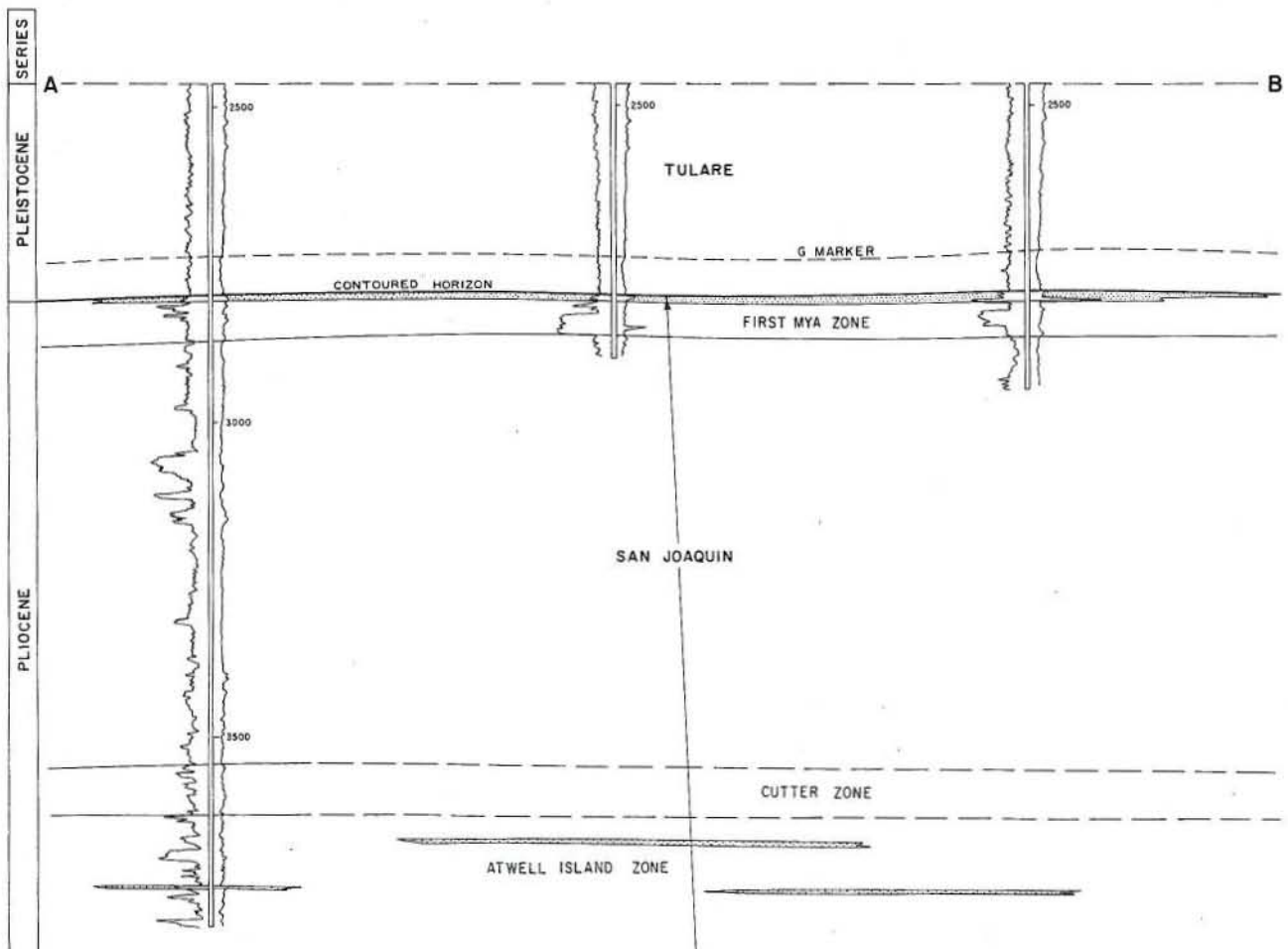
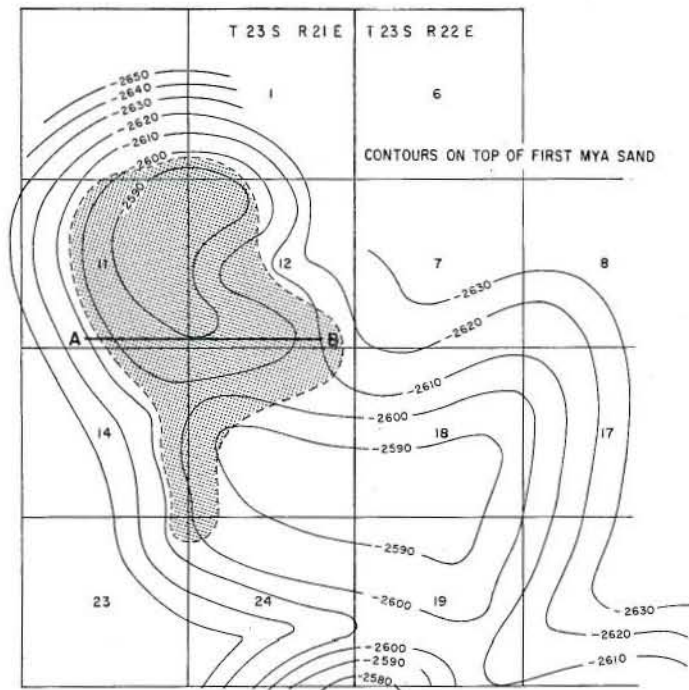
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. 5,300 and across base of fresh water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: Last production from the field was during 1951 and the only producing well was abandoned in 1953.

REFERENCES:

# HARVESTER GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

HARVESTER GAS FIELD

Kings County

LOCATION: 42 miles southeast of Coalinga

TYPE OF TRAP: Anticline; lenticular sands on an anticline

ELEVATION: 200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
First Mya	Pennant Operating Co., Opr. "Harvester" 1	Shell Oil Co. "Harvester Unit 1" 1	11 23S 21E	MD	4,150	805	1/2	Feb 1950
Atwell Island	Transco Oil Co. "SLF" 2-11	Pennant Operating Co. "SLF" 2-11	11 23S 21E	MD	1,000	1490	14/64	Dec 1963

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Trico Oil and Gas Co. "von Glahn" 2-1	Harry H. Magee, Opr. "von Glahn" 2-1	May 1945	2 23S 21E	MD	5,005	Etchegoin	Pliocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
First Mya	2,800	6	Pliocene	San Joaquin	1,030	N.A.	1,150	III
Atwell Island	3,750	10	Pliocene	San Joaquin	N.A.	N.A.	1,690	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
260,323	2,730	300	4	8,832,865	2,286,643	1968	36	22	710

SPACING ACT: Applies

BASE OF FRESH WATER: 380

CURRENT CASING PROGRAM: 7" cem 400, 2 7/8" cem 2,800 - 3,900.

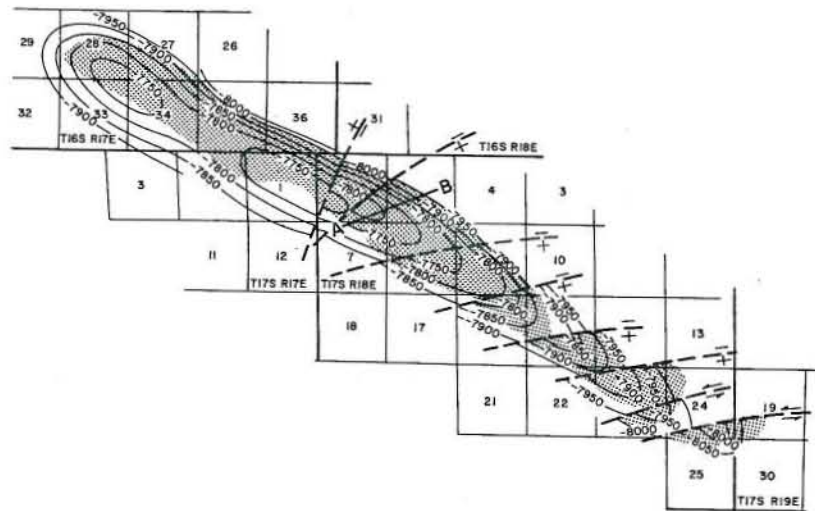
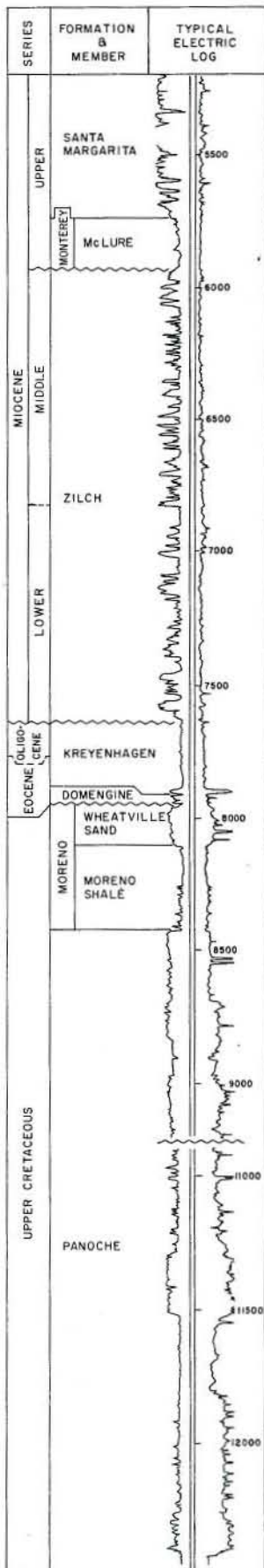
METHOD OF WASTE DISPOSAL:

REMARKS: The major period of development followed the completion in March 1959 of Beach, Church &amp; Bell well No. "Southlake Farms" 1-13, Sec. 13 (now Transco Oil Co. "SLF" 1-13).

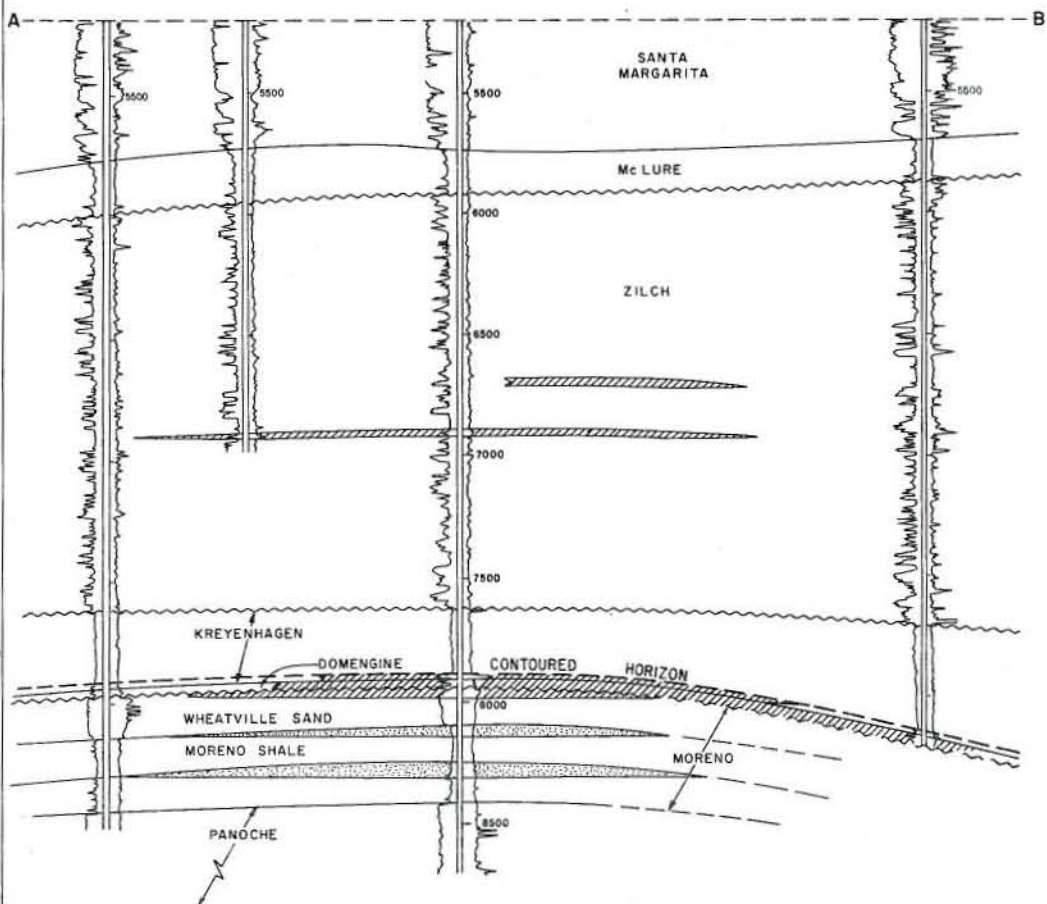
REFERENCES: Hill, F. L., Harvester Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 1 (1964).



# HELM OIL FIELD



CONTOURS ON TOP OF KREYENHAGEN OIL ZONE



NOTE: PALEOCENE PRODUCTIVE INTERVAL TOO THIN TO SHOW

## CALIFORNIA DIVISION OF OIL AND GAS

HELM OIL FIELD

Fresno County

LOCATION: 22 miles southwest of Fresno

TYPE OF TRAP: Faulted anticline; lenticular sands

ELEVATION: 200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Zilch	Samson Resources Co. "Helm Unit" 31-34	Amerada Petroleum Corp. "Clover" 31-34	34 16S 17E	MD	242	3,845	Oct 1941
Eocene	Same as above	Same as above	34 16S 17E	MD	96	2,950	Oct 1941

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Midhurst Oil Corp. "Noble" 11-6	Nordon Corp. Limited "Noble" 11-6	Jul 1962	6 17S 18E	MD	12,424	Basement (schist)	Lt Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Zilch	6,800	20	early Miocene	Zilch	32 - 65	2,380	III
Eocene	8,170	50	Eocene, Paleocene & Lt Cret	Kreyenhagen, Domengine,, Martinez & Moreno	29 - 61	1,000	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
373,256	409,098	6,430,715	2,645	47	28,786,026	76,732,944	2,364,759	1946	253	189	4,855

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,300 - 1,700

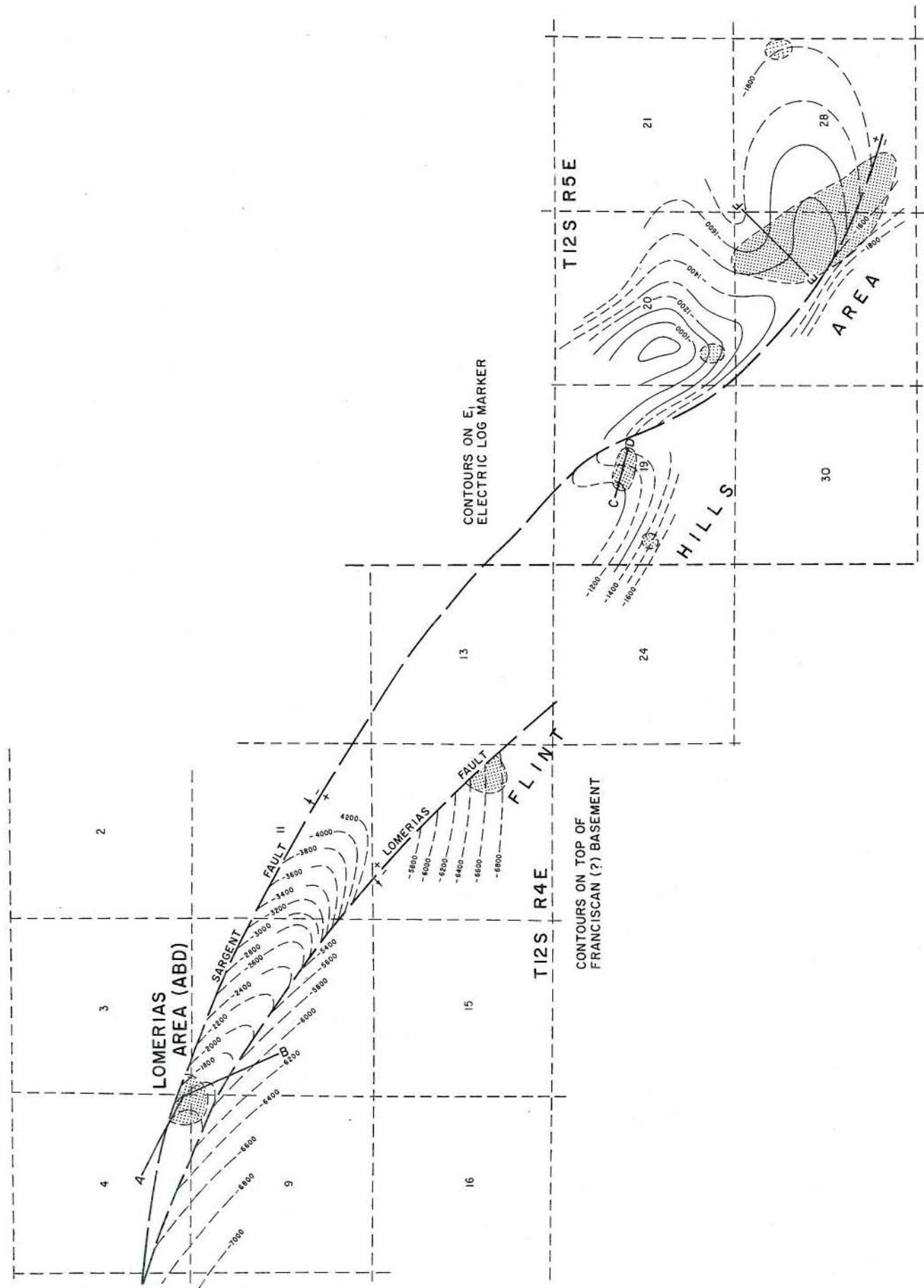
CURRENT CASING PROGRAM: 10 3/4" cem 500; 5 1/2" cem 6,800 - 8,400.

METHOD OF WASTE DISPOSAL: All water is injected into disposal wells.

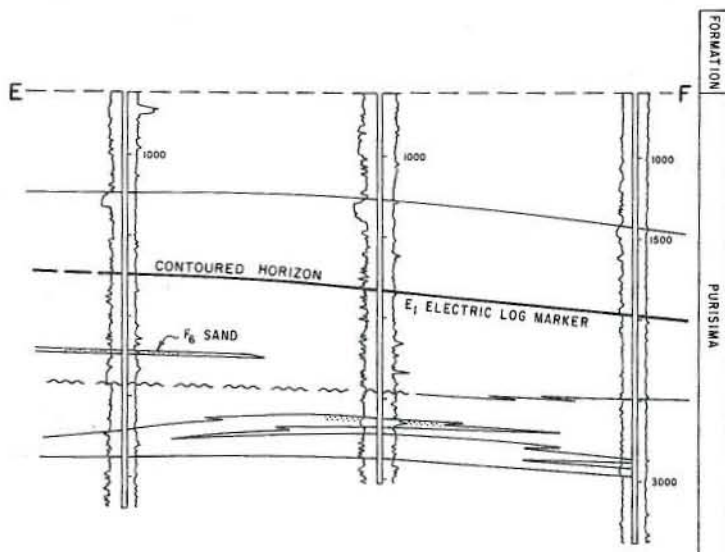
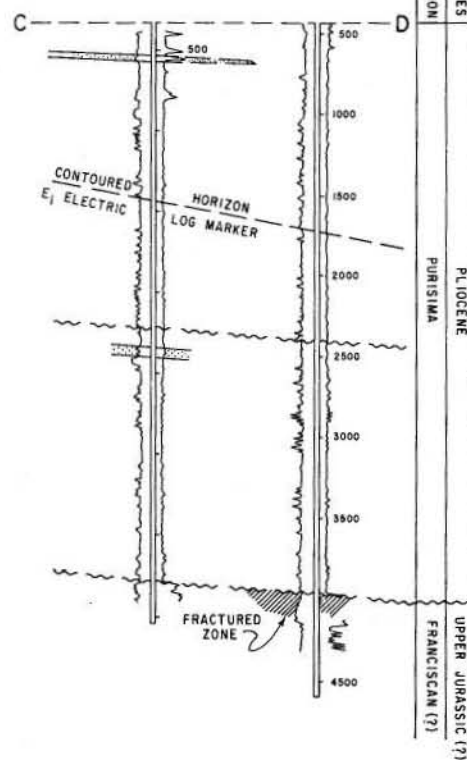
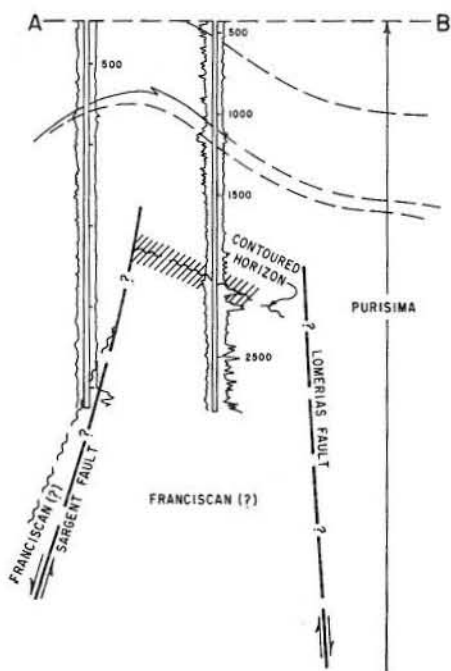
REMARKS: Between 1961 and 1964, a total of 513,590 bbls. of water was injected in a water-flood project of the Eocene pool. Sands included in the Eocene zone are the Nortonville (Eocene), Domengine (Eocene), Truman (Eocene), Weyant (Paleocene), Wheatville (U Cretaceous), Noble (U Cretaceous) and Sub-Noble (U Cretaceous). Waters from the Truman sand have an average salinity of 545 gr/gal.

REFERENCES: Frame, R. G., Helm Oil Field: Calif. Div. of Oil and Gas, Summary of Operations -- Calif. Oil Fields, Vol. 36, No. 1 (1950).

# HOLLISTER OIL FIELD



# HOLLISTER OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

HOLLISTER OIL FIELD

San Benito County

LOCATION: 2 miles northwest of Hollister

TYPE OF TRAP: See areas

ELEVATION: 150 - 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Franciscan	Trico Oil & Gas Co. "O'Connell" 1	Jack Herley, Opr. "O'Connell" 1	4 12S 4E	MD	30	5	Aug 1950

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Trico Oil & Gas Co. "O'Connell" 1	The Texas Company "O'Connell" 1	Jul 1951	14 12S 4E	MD	7,418	Franciscan	Late Jur

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Flint Hills Area)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	10	0	8,753	0	2,478	1957	29	4	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: No oil production from the field since 1958.

REFERENCES: Wilkinson, E.R., Hollister Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 1 (1963).  
 Wilkinson, E.R., Hollister Field in 1967 Guidebook, Gabilan Range and Adjacent San Andreas: Pacific Section, Am. Assoc. Pet. Geologists.  
 Wilson, I.F., Geology of the San Benito Quadrangle, California: Calif. Journal of Mines and Geology, Vol. 39, No. 2 (1946).

# CALIFORNIA DIVISION OF OIL AND GAS

FLINT HILLS AREA

HOLLISTER OIL FIELD

San Benito County

LOCATION: See field sheet

TYPE OF TRAP: Sand lenses pinching out along flanks of minor folds

ELEVATION: 150 - 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Purisima (Gas)	Petrolex, Inc. "Ferry-Morris" 2	Balken-Krug "Ferry-Morris" 2	29 12S 5E	MD	0	734	Jan 1953
Purisima (Oil)	Petrolex, Inc. "Justo" 1	Same as present	28 12S 5E	MD	10	0	Jul 1956
Franciscan	Trico Oil & Gas Co. "Breen" 1	Tide Water Associated Oil Co. "Breen" 1	19 12S 5E	MD	13	N.A.	Jul 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Trico Oil & Gas Co. "O'Connell" 1	The Texas Co. "O'Connell" 1	Jul 1951	14 12S 4E	MD	7,418	Franciscan	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Purisima (Gas)	1,000 - 3,500	35	Pliocene	Purisima	1,010	180 - 375	III
Purisima (Oil)	5,480	10	Pliocene	Purisima	36	N.A.	III
Franciscan	3,970	60	Late Jurassic	Franciscan	25	325	III

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	10	0	2,357	0	2,022	1957	20	2	30

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 100 - 400

CURRENT CASING PROGRAM: 11 3/4" cem. 400; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: No dry gas production in 1972; cumulative dry gas production 7,560,410 Mcf; 15 dry gas wells were completed on a maximum of 650 proved acres.

REFERENCES: See field sheet.

# CALIFORNIA DIVISION OF OIL AND GAS

LOMERIAS AREA (Abandoned)

HOLLISTER OIL FIELD

San Benito County

LOCATION: See field map

TYPE OF TRAP: Faulted anticline

ELEVATION: 150 - 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Franciscan	Trico Oil & Gas Co. "O'Connell" 1	Jack Herley, Opr. "O'Connell" 1	4 12S 4E	MD	30	5	Aug 1950

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Petroleum Midway Co., Ltd. 1	Same	Jan 1925	10 12S 4E	MD	5,200	Purisima	Pliocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Franciscan	2,000	60	Late Jurassic	Franciscan	23	325	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	6,396	0	2,052	1952	9	2	20

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: 100 - 400

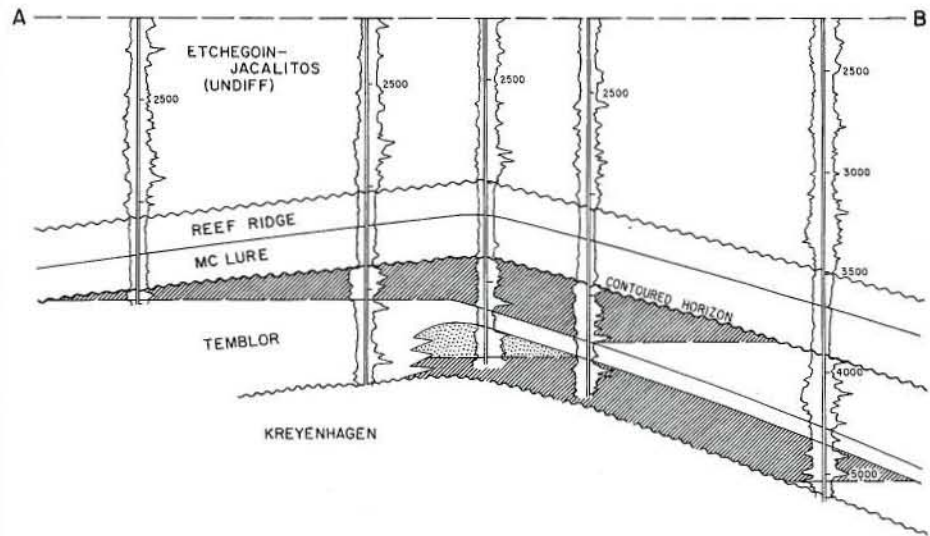
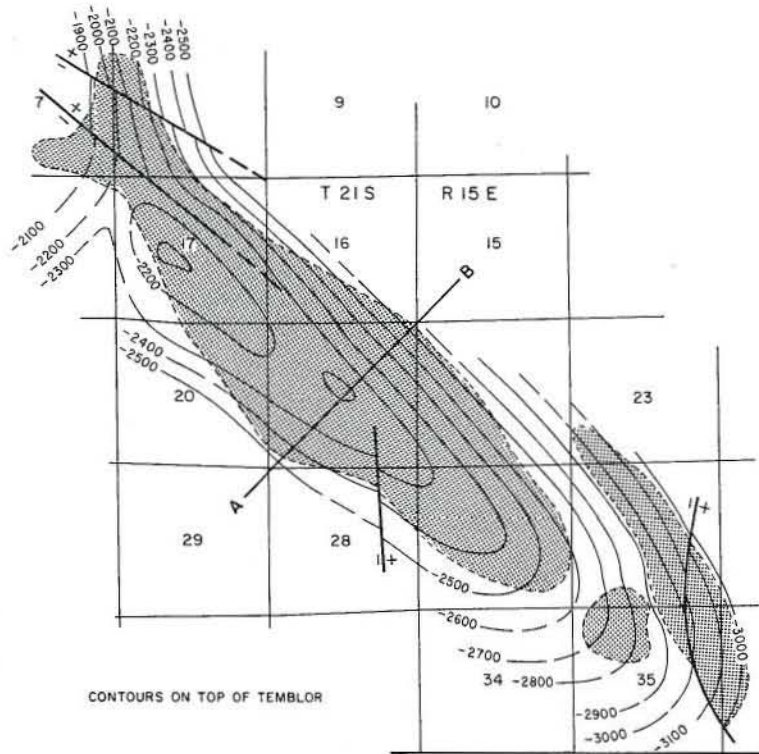
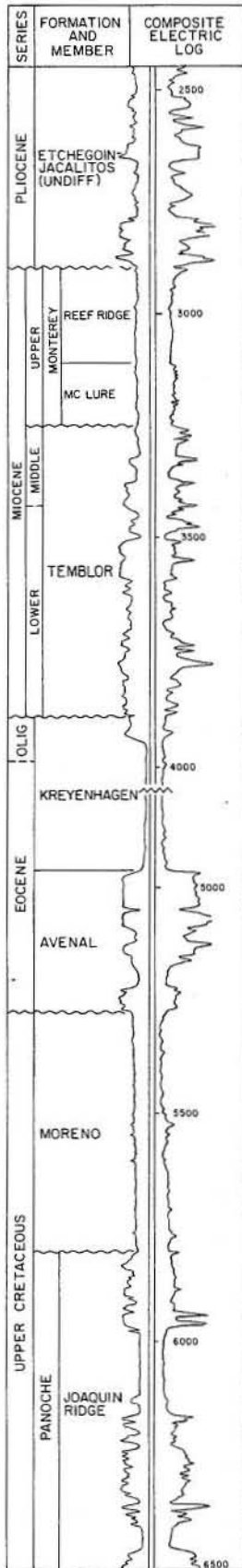
CURRENT CASING PROGRAM: 11 3/4" cem. 500; 7" combination string landed through zone and cem. through ports above the zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

REMARKS: The producing zone may include a thin Cretaceous conglomerate as well as fractured Franciscan strata.

REFERENCES: See field sheet.

# JACALITOS OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

JACALITOS OIL FIELD

Fresno County

LOCATION: 3 miles south of Coalinga

TYPE OF TRAP: Faulted asymmetrical anticline and permeability variations within the producing sands

ELEVATION: 700 - 1,600

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Temblo	Humble Oil & Rfg. Co. "Calif. Central" 33	Wilshire Annex Oil Co. No. 33-26E	26 21S 15E	MD	90	N.A.	Oct 1941

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. No. 65 *Deepened in 1969 to 6,502	Same	*Mar 1948	21 21S 15E	MD	6,502	Joaquin Ridge	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Temblor	3,400	170	early Miocene	Temblo	31 - 39	580	None
Lower Temblor	3,700	160	early Miocene	Temblo	31 - 41	510	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
105,491	86,330	150,036	2,280	45	21,020,041	25,015,420	2,293,014	1949	205	160	2,670

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: 0 - 550

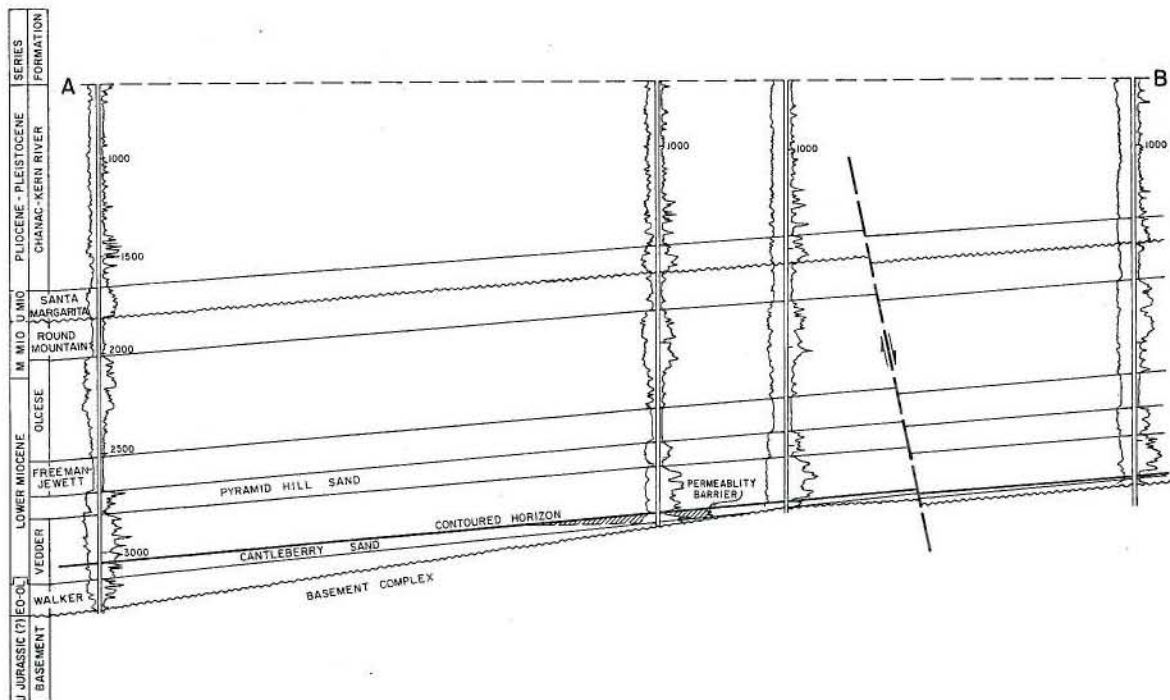
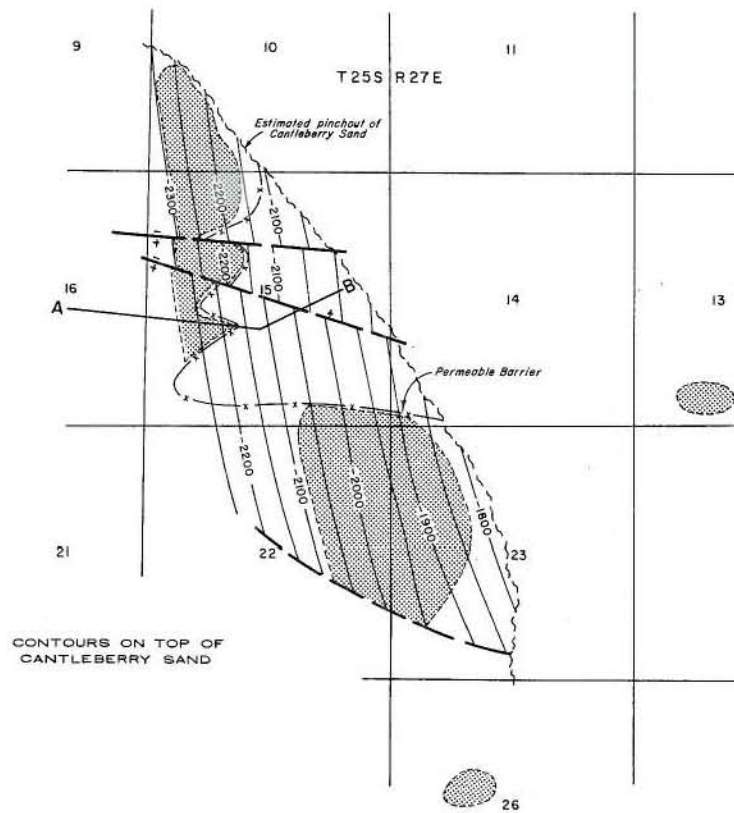
CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Water is allowed to percolate into sediments containing saline waters.

REMARKS: A water flood stimulation project was started in 1966 and terminated in 1971; 1,056,811 bbls. of water was injected during that time in 3 wells.

REFERENCES: Hunter, G.W., Jacalitos Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 36, No. 2 (1950).

# JASMIN OIL FIELD



CALIFORNIA DIVISION OF OIL AND GAS

JASMIN OIL FIELD

Kern County

LOCATION: 25 miles north of Bakersfield

TYPE OF TRAP: Permeability variations on a regional homocline

ELEVATION: 750

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pyramid Hill	McWood Corp. "Quinn" 1	Ross O. Nelson "R.O.N." 1	13 25S 27E	MD	3	N.A.	Jan 1964
Cantleberry	Pacific Oil and Gas Development Corp. "Cantleberry" 72	Same as present	22 25S 27E	MD	65	N.A.	Jul 1946

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Morton & Sons "Quinn" 1-16	Same	Feb 1949	16 25S 27E	MD	3,317	Basement (Granite)	Late Jur

PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pyramid Hill	1,705	130	early Miocene	Jewett	14	N.A.	None
Cantleberry Sands	2,750	30 - 80	early Miocene	Vedder	14	10	None

PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
70,588	0	1,093,289	275	32	1,513,504	0	139,460	1967	88	44	310

STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 350

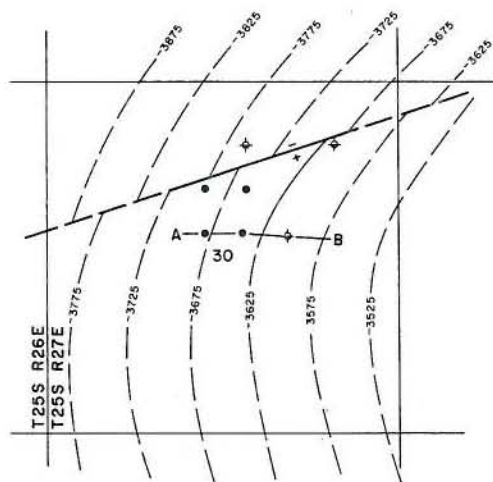
CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps; subsurface disposal project became operative in 1973.

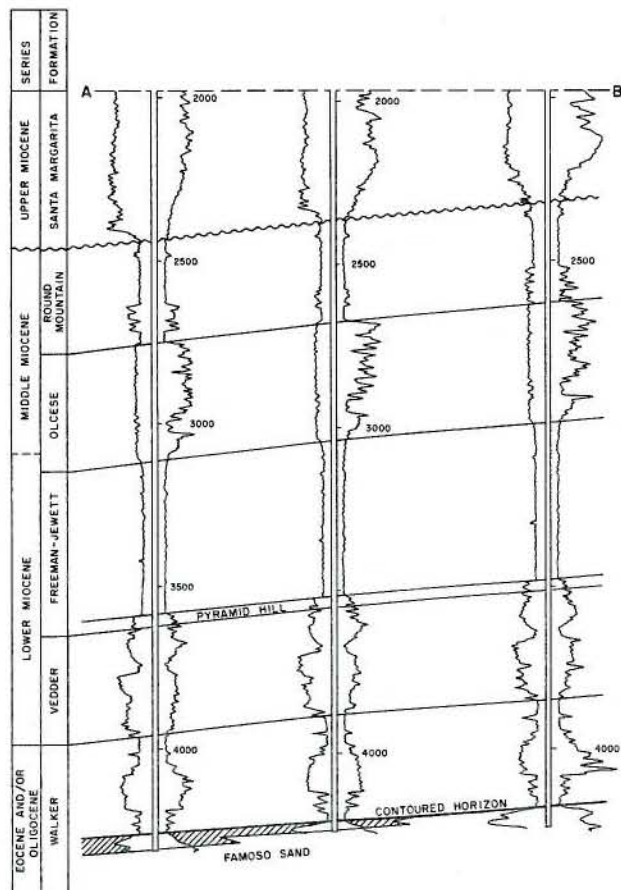
REMARKS:

REFERENCES: Hluza, A.G., Jasmin Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 2 (1958).

# WEST JASMIN OIL FIELD



CONTOURS ON TOP OF FAMOSO SAND





## CALIFORNIA DIVISION OF OIL AND GAS

JASMIN, WEST, OIL FIELD

Kern County

LOCATION: 28 miles north of Bakersfield

TYPE OF TRAP: Lenticular sand on an anticline

ELEVATION: 575

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Famoso	Pacific Oil & Gas Development Corp., "W.G.O.-Unit A" 53-30	Same as present	30 25S 27E	MD	15	N.A.	Apr 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Pacific Oil & Gas Development Corp. "W.G.O.-Unit A" 52-30	Same	Mar 1959	30 25S 27E	MD	4,415	Famoso	Eo &/or Olig

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Famoso	4,200	30	Eo &/or Olig	Walker	22	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,447	0	2,506	40	2	61,008	0	14,759	1962	7	4	40

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 750

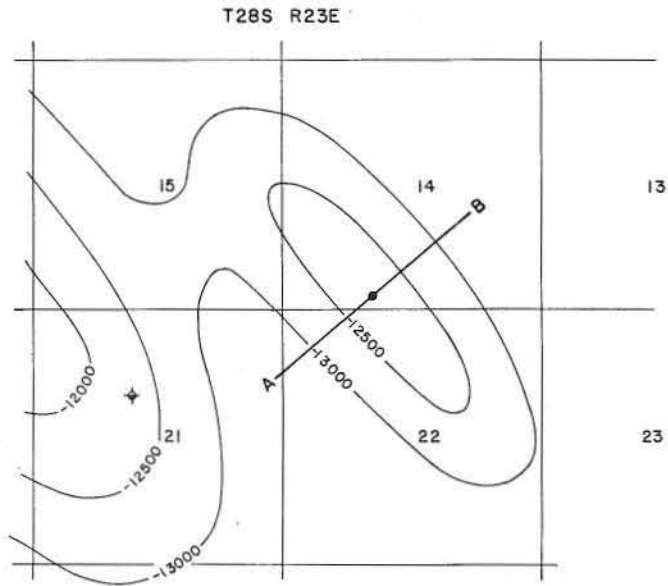
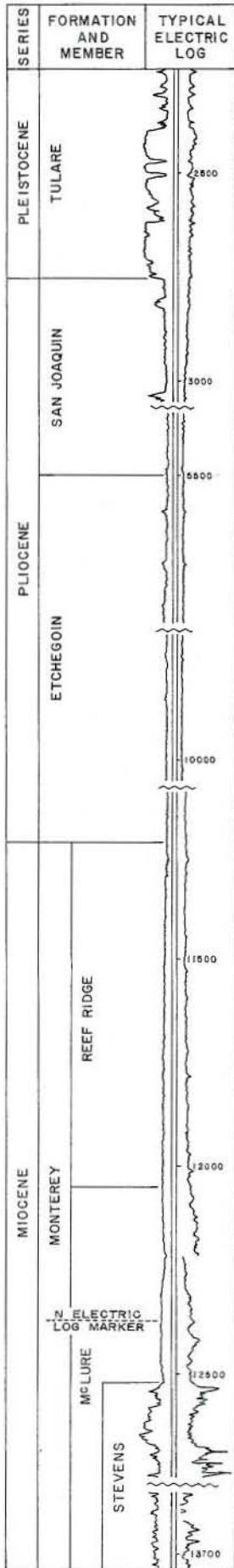
CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: This field has the only known oil production from Famoso sand.

REFERENCES: Shea, D.N., West Jasmin Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 1 (1964).

# JERRY SLOUGH OIL FIELD



CONTOURS ON N ELECTRIC LOG MARKER

A ————— B

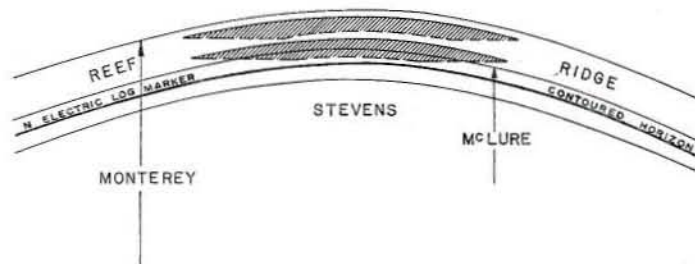
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# CALIFORNIA DIVISION OF OIL AND GAS

JERRY SLOUGH OIL FIELD

Kern County

LOCATION: 31 miles northwest of Bakersfield

TYPE OF TRAP: Anticline

ELEVATION: 260

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Fractured shale	Texaco Inc. "Breen" 1	The Texas Co. "Breen" 1	14 28S 23E	MD	69	224	Jul 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Feb 1956	14 28S 23E	MD	13,732	Stevens	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Fractured shale	11,250	900	late Miocene	Monterey	35	1,200	V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
2,871	2,562	7,912	10	1	112,718	216,864	14,646	1957	1	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,500

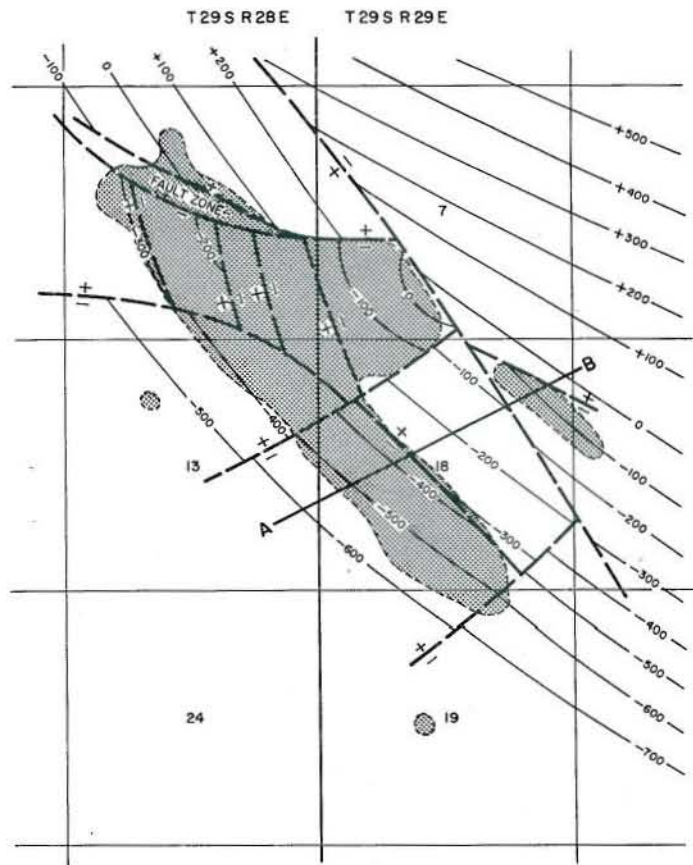
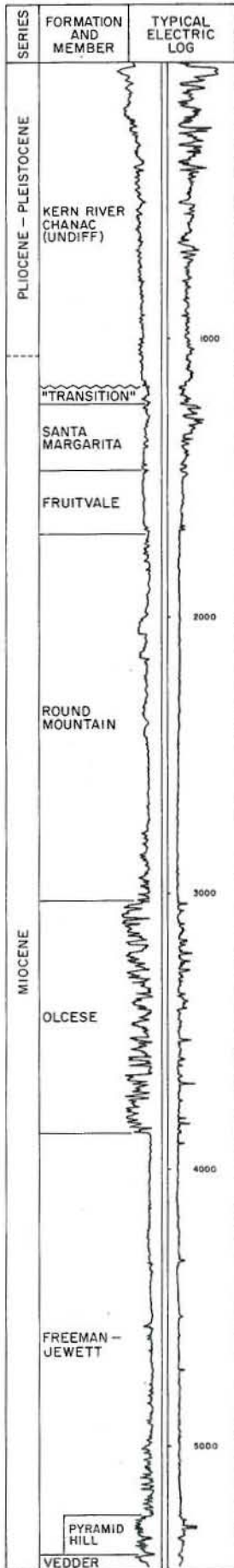
CURRENT CASING PROGRAM: 13 3/8" cem. 1,200; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water is trucked to an adjacent field for subsurface disposal.

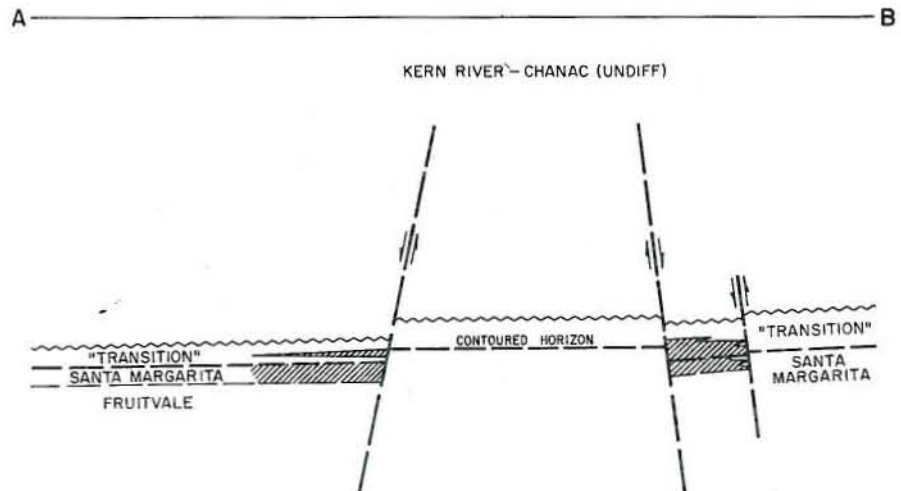
REMARKS:

REFERENCES:

# KERN BLUFF OIL FIELD



CONTOURS ON TOP OF SANTA MARGARITA





## CALIFORNIA DIVISION OF OIL AND GAS

KERN BLUFF OIL FIELD

Kern County

LOCATION: 6 miles northeast of Bakersfield

TYPE OF TRAP: Faulted homocline

ELEVATION: 800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Transition	Shell Oil Co. "Afana" 1	Same as present	18 29S 29E	MD	18	N.A.	Feb 1944
Santa Margarita	Gulf Oil Corp. "Needham-Bloemer" 15	Oceanic Oil Co. "Needham-Bloemer" 1	7 29S 29E	MD	90	N.A.	Sep 1947

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Kernview Oil Co. "Muir" 13	Gene Reid Exploration Co. "Muir" 13	Feb 1949	18 29S 29E	MD	5,425	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Transition	740 - 1,350	30 - 80	late Miocene	Transition	14	5	None
Santa Margarita	950	55	late Miocene	Santa Margarita	14	5	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
216,477	0	3,365,718	670	131	9,410,522	0	845,373	1949	214	166	690

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1965	3,701,855	124

SPACING ACT: Applies

BASE OF FRESH WATER: 950

CURRENT CASING PROGRAM: 8 5/8" cem. above zone and across base of fresh-water sands; 6 5/8" liner landed through zone.

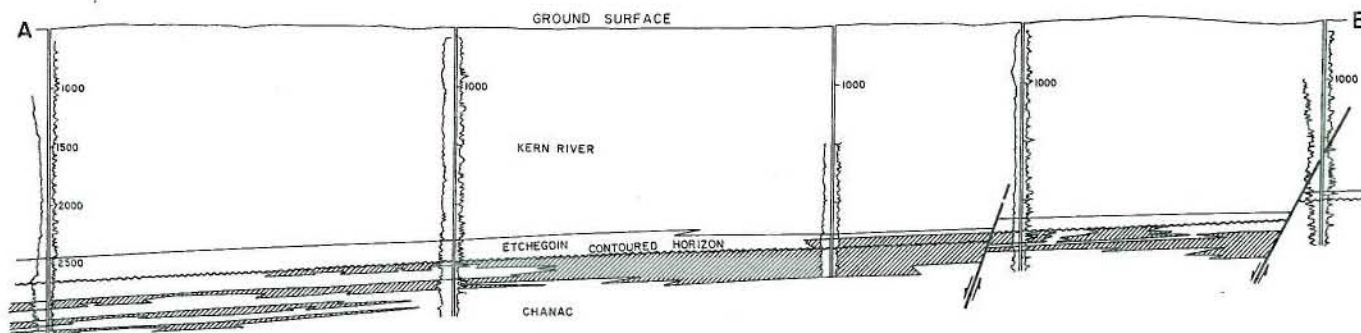
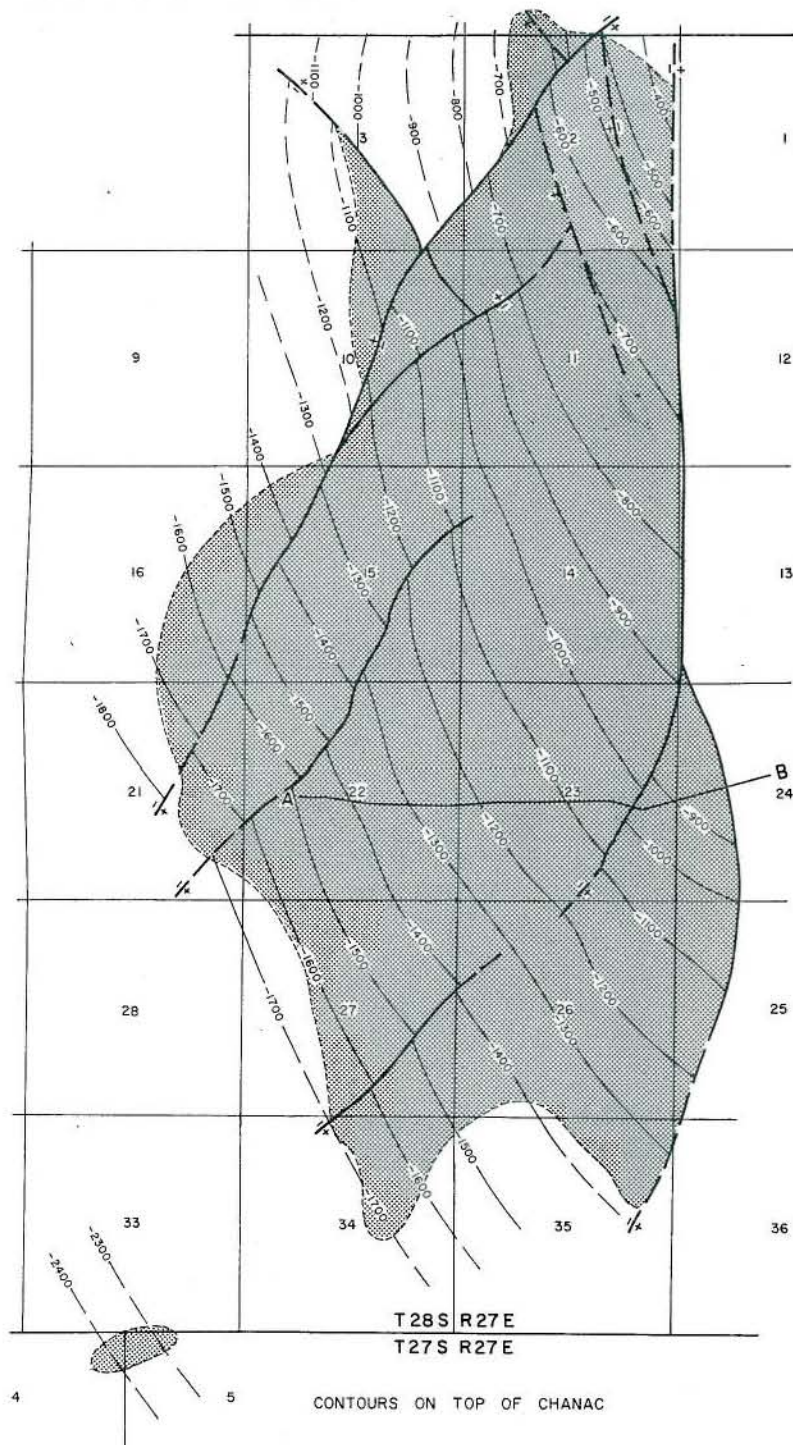
METHOD OF WASTE DISPOSAL: Waste water is injected in disposal wells (808,148 bbls. in 1972), steam injection wells, and in unlined sumps where water quality meets Div. of Oil and Gas standards.

REMARKS:

REFERENCES: Corwin, C.H., Kern Bluff Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 36, No. 1 (1950).

# KERN FRONT OIL FIELD

SERIES	STAGE	FORMATION	TYPICAL ELECTRIC LOG
PLEISTOCENE		KERN RIVER	
		ETCHEGOIN	
MIOCENE	UPPER	DEL MONTIAN	
		CHANAC	
	MIDDLE	SANTA MARGARITA	
		FRUITVALE - ROUND MOUNTAIN (UNDIFFERENTIATED)	
	LOWER	OLCESE	
UPPER JUR.		FREEMAN - JEWETT	
		VEDDER	
UPPER JUR.		FAMOSO SAND - WALKER (UNDIFF)	
		BASEMENT COMPLEX	



# CALIFORNIA DIVISION OF OIL AND GAS

KERN FRONT OIL FIELD

Kern County

LOCATION: 5 miles northwest of Bakersfield

TYPE OF TRAP: Permeability variations on a faulted homocline

ELEVATION: 750

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin Chanac	Standard Oil Co. of Calif. No. 1	Same as present	15 28S 27E	MD	10	N.A.	1912
	Standard Oil Co. of Calif. No. 1	Same as present	27 28S 27E	MD	190	N.A.	Aug 1914

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "Kramer" 1	Richfield Oil Corp. "Kramer" 1	Sep 1941	34 28S 27E	MD	7,738	Basement (slate)	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin Chanac	2,265	70	Pliocene	Etchegoin	14	N.A.	None
	2,320	250	late Miocene	Chanac	15	5	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,148,559	293,008	25,578,898	5,000	852	128,591,808	14,667,840	4,535,059	1929	1,322	1,206	5,055

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	14,142,183	478

SPACING ACT: Does not apply

BASE OF FRESH WATER: 1,300

CURRENT CASING PROGRAM: 8 5/8" cem. above zone and across base of fresh-water sands; 6 5/8" liner landed through zone.

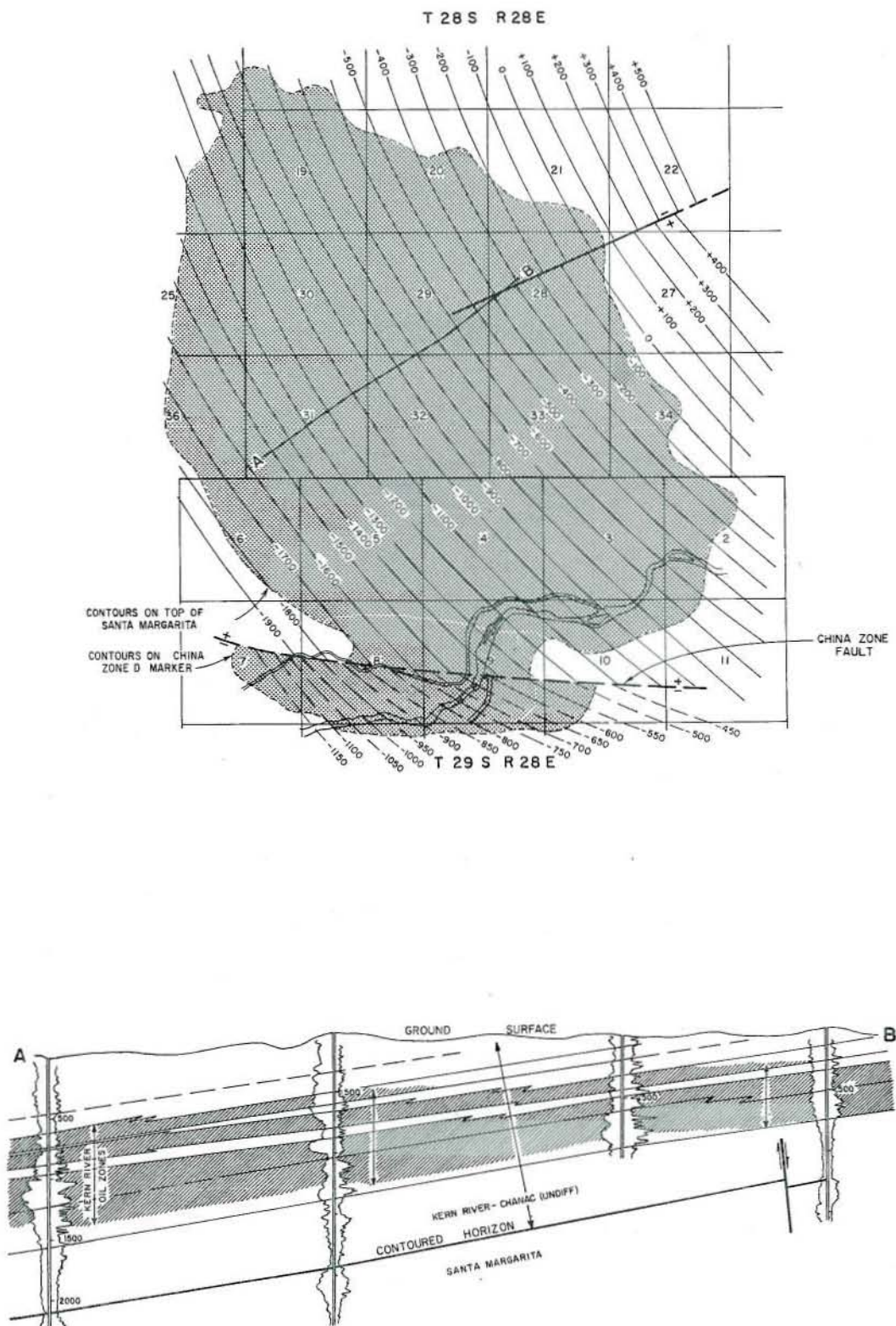
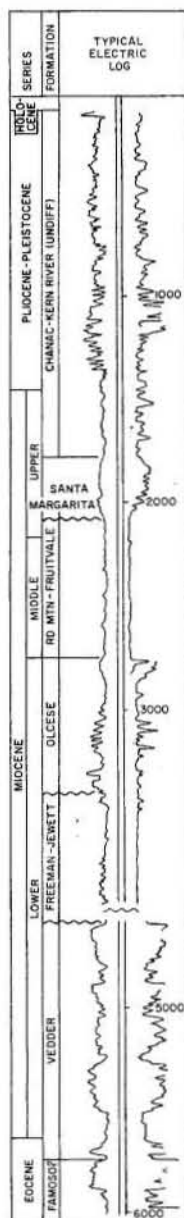
METHOD OF WASTE DISPOSAL: Unlined sumps.

REMARKS: A steam displacement project was started in the Kern River - Chanac zone in 1966 and terminated after 99,587 bbls. was injected.

REFERENCES: Brooks, T.J., Kern Front Oil Field, A.A.P.G., S.E.P.M., S.E.G., Guidebook Joint Annual Meeting, Los Angeles, Calif., 1952, p. 159-161.  
Park, W.H., Kern Front Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 51, No. 1 (1965).



# KERN RIVER OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

KERN RIVER OIL FIELD  
Kern County

LOCATION: 5 miles north of Bakersfield

TYPE OF TRAP: Permeability variations on a homocline

ELEVATION: 400 - 1,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Kern River	Elwood Brothers (no name well)	Same as present	3 29S 28E	MD	N.A.	N.A.	1899
China Zone	Westates Petroleum Co. "KCL" 1	Horace Steele and L.C. Gould "KCL" 1	8 29S 28E	MD	50	0	Sep 1947

Remarks: The discovery well was dug by hand in the spring of 1899 on what is now Chanslor-Western Oil Development Co. property. "Gassy vapors" caused the well to be abandoned without a test of its commercial possibilities. In June 1899 McWhorter Bros. drilled the first commercial well 400 feet north of the discovery well.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL 26" 1-11	Same	Oct 1948	9 29S 28E	MD	6,986	Granite	Jurassic

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Kern River	900	700	late Pliocene	Kern River	13	5	None
China Zone	1,300	100 - 500	late Pliocene	Kern River	13	40	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
27,154,427	4,165	188,121,732	9,535	4,526	576,511,857	2,599,678	27,154,427	1972	7,942	6,978	9,850

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1961	300,849,501	5,215
Steam flood	1962	189,380,134	780

SPACING ACT: Does not apply

BASE OF FRESH WATER: 2,500

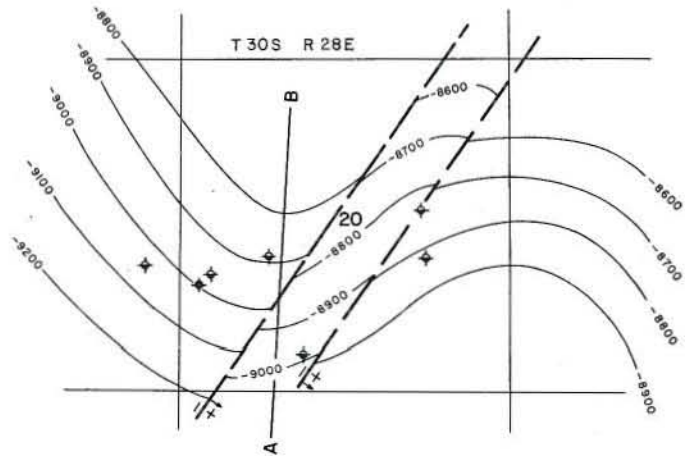
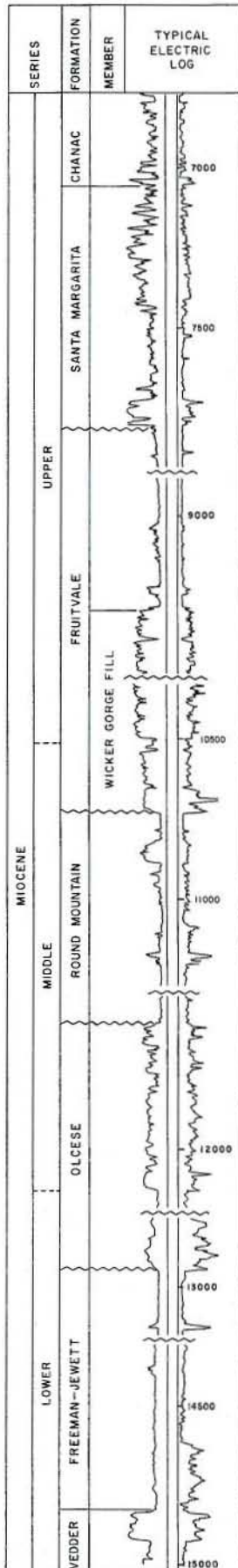
CURRENT CASING PROGRAM: 6 5/8" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water is injected into the Santa Margarita and Vedder, 12,143,578 bbls. in 1972. Waste water is also used in steam generation. The balance of the water is of a suitable enough quality that it is allowed to enter percolation ponds, irrigation canals, & the Kern River.

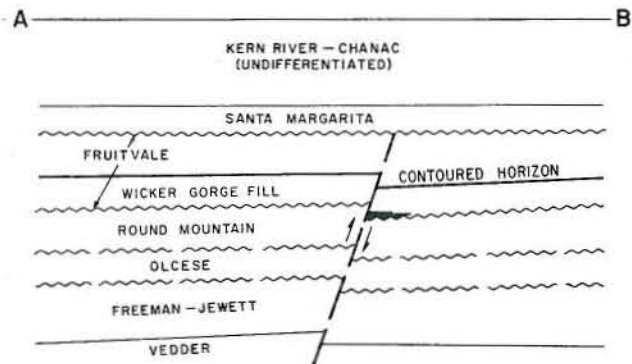
REMARKS:

REFERENCES: Crowder, R.E., Kern River Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 38, No. 2 (1952).

# KERNSUMNER OIL FIELD (Abandoned)



CONTOURS ON TOP OF WICKER GORGE FILL



## CALIFORNIA DIVISION OF OIL AND GAS

KERN SUMNER OIL FIELD (Abandoned)

Kern County

LOCATION: 3 miles south of Bakersfield

TYPE OF TRAP: Permeability variations on an anticlinal nose

ELEVATION: 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Wicker Gorge Fill	Petroleum Investment Co. "P.I. Unit" 1-16X	Signal Oil & Gas Co. "Signal Unit" 1-16X	20 30S 28E	MD	61	44	Jun 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Garrone" 1	Same	May 1963	20 30S 28E	MD	15,000	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Wicker Gorge Fill	10,530	50	m Miocene	Wicker Gorge Fill	29	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	8,103	3,416	4,070	1961	4	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,875

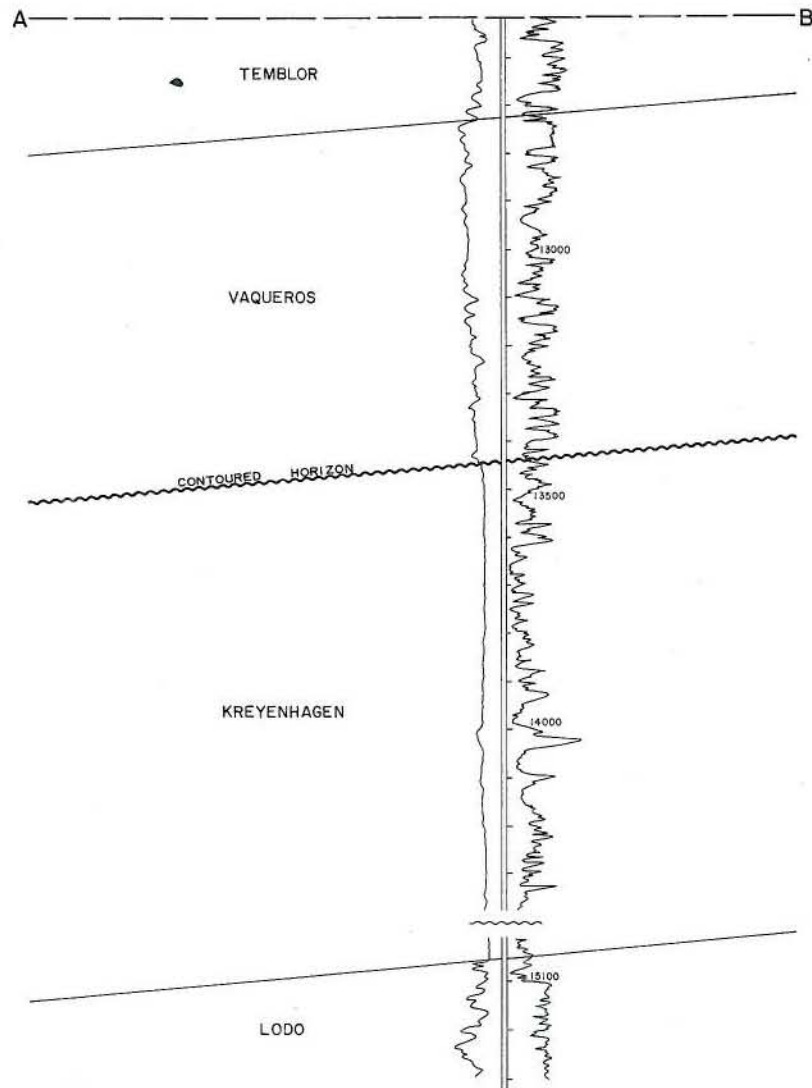
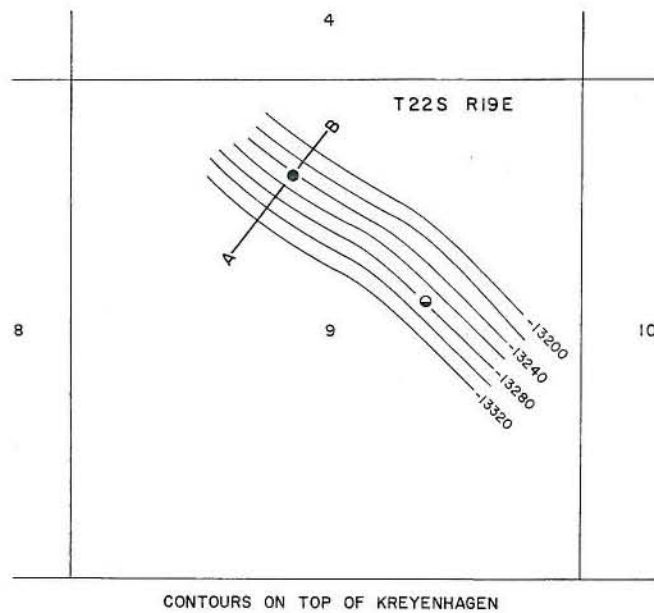
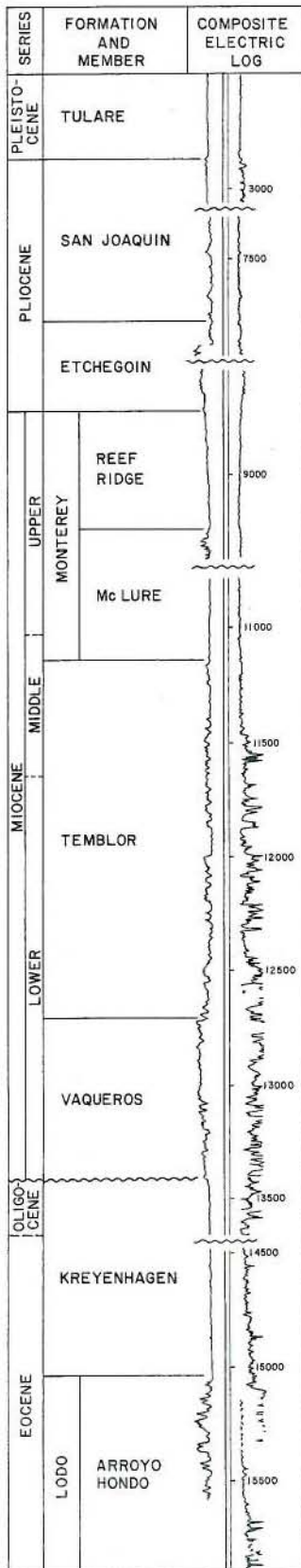
CURRENT CASING PROGRAM: 10 3/4" cem. 1,100; 7" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: One well field. Abandoned 1963.

REFERENCES:

# KETTLEMAN CITY OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

KETTLEMAN CITY OIL FIELD

Kings County

LOCATION: 26 miles southeast of Coalinga

TYPE OF TRAP: Unknown

ELEVATION: 185

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vaqueros - Kreyenhagen	McCulloch Oil Corp. "Davis Transamerica Dev. Co." 1	Same as present	9 22S 19E	MD	3,600	500	Aug 1971

Remarks: On Jan. 7, 1971, while being drilled at 14,181', the well nearly blew-out but the "kick" was kept under control by the operator. Subsequently, the drill pipe became stuck necessitating a redrill. The well was redrilled to a total depth of 15,894 in the Lodo formation. However, the zone that caused the "kick" was apparently missing in the redrill. The well was once again plugged back and redrilled to a depth of 14,338 and completed to production from the Vaqueros and Kreyenhagen formations.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Oct 1970	9 22S 19E	MD	15,894	Lodo	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vaqueros - Kreyenhagen	12,800	1,300	early Mio - Olig - Eo	Vaqueros - Kreyenhagen	26	850	V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
14,422	15,690	83,121	80	1	21,454	19,947	14,422	1972	2	1	80

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400

CURRENT CASING PROGRAM: 13 3/8" cem. 3,500; 7" cem. 13,500; 4 1/2" liner landed or cem. through the producing zone.

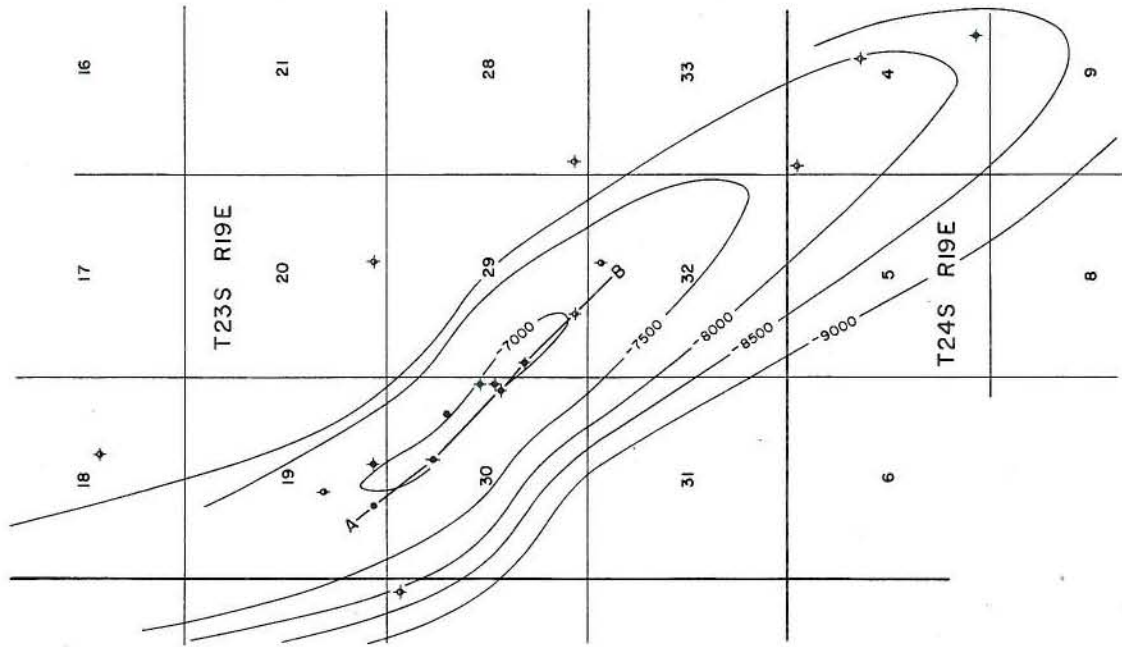
METHOD OF WASTE DISPOSAL: Method of hauling water by vacuum truck thirty miles to approved disposal site has proved uneconomical and the only producing well has been shut in. Future plans are to drill or convert a well for use as a disposal well.

REMARKS:

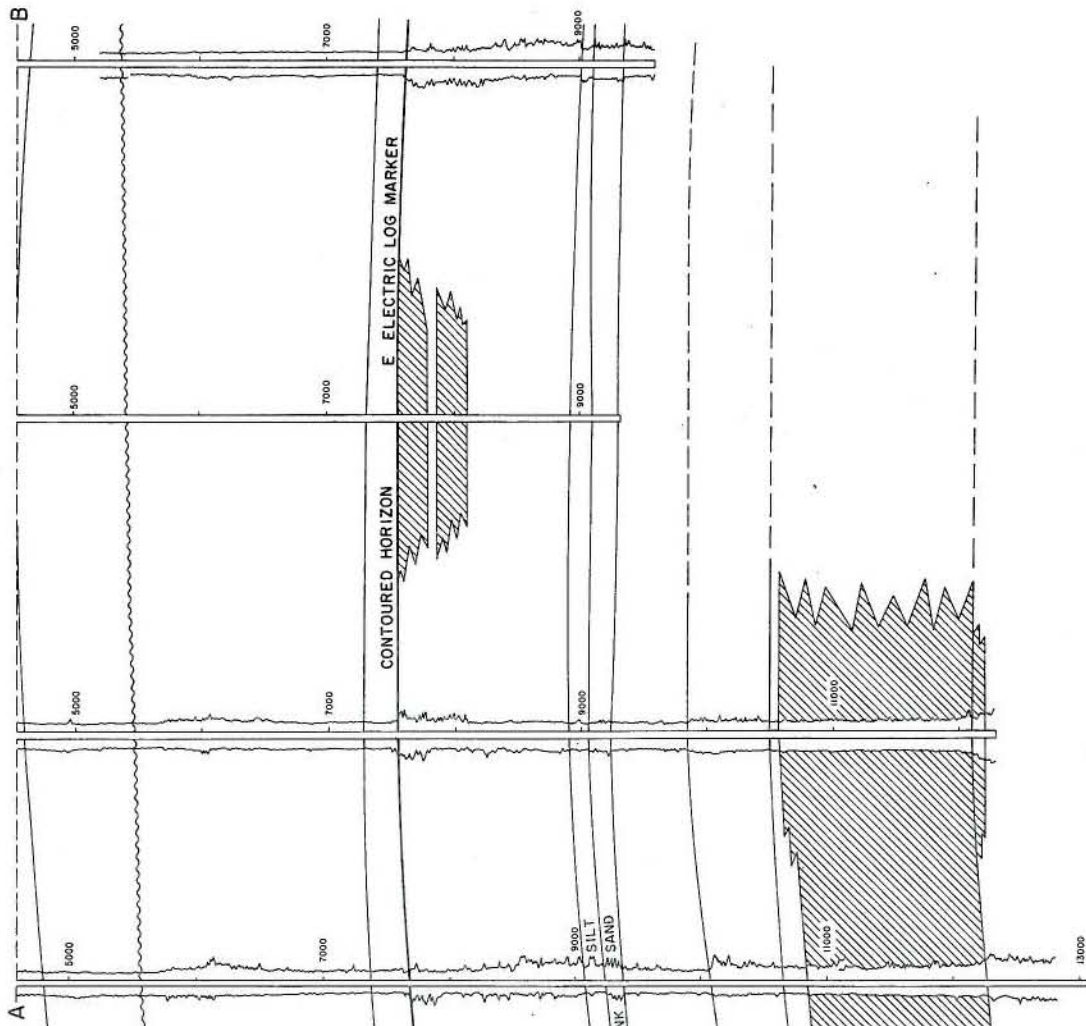
REFERENCES:

# KETTLEMAN MIDDLE DOME OIL FIELD

SERIES	MIOCENE		OLIGOCENE	Eocene	Lodo
	UPPER	MIDDLE	LOWER		
FORMATION	MONTEREY	TEMBLOR	VAQUEROS	KREYENHAGEN	ARROYO HONDO
MEMBER	REEF RIDGE	TEMBLOR SANDS	WHEPLEY SHALE FELIX BURBANK		McADAMS SAND
ZONE	JACALITOS				



CONTOURS ON TOP OF E ELECTRIC LOG MARKER



# CALIFORNIA DIVISION OF OIL AND GAS

KETTLEMAN MIDDLE DOME OIL FIELD

Kings County

LOCATION: 28 miles southeast of Coalinga

TYPE OF TRAP: Anticline; fractured shale

ELEVATION: 400 - 750

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin - Jacalitos	U.S. Natural Resources, Inc. "Downing 30" 1	Boisa Chica Oil Corp. "Downing" 1	30 23S 19E	MD	7	N.A.	Nov 1926
Temblor	Petroleum Securities Co. "Burbank" 1	Same as present	30 23S 19E	MD	1,400	34,000	Dec 1931
Kreyenhagen	Middle Dome Corp. No. 38-19V	Standard Oil Co. of Calif., Opr. No. 38-19V	19 23S 19E	MD	349	1,096	Jan 1956
McAdams	Middle Dome Corp. No. 73-30V	Boisa Chica Oil Corp. No. 73	30 23S 19E	MD	563	4,760	Jan 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Middle Dome Corp. No. 38-19V	Standard Oil Co. of Calif., Opr. No. 38-19V	Jan 1954	19 23S 19E	MD	13,076	McAdams	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin - Jacalitos	2,700	30	Pliocene	Etchegoin - Jacalitos	11	2,190	None
Temblor	7,700	250	early Miocene	Temblor	51 - 60	2,040	IV
Kreyenhagen	10,700	1,200	Eocene & Oligocene (?)	Kreyenhagen	34 - 44	735	IV
McAdams	12,000	200	Eocene	Lodo	43 - 49	515	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
10,296	14,666	1,052	130	2	1,303,983	23,915,814	151,978	1933	18	9	250

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 18 5/8" cem 1,000; 13 3/8" cem 5,400; 9 5/8" cem 7,200; 7" cem above zone; 4 3/4" liner landed through zone.

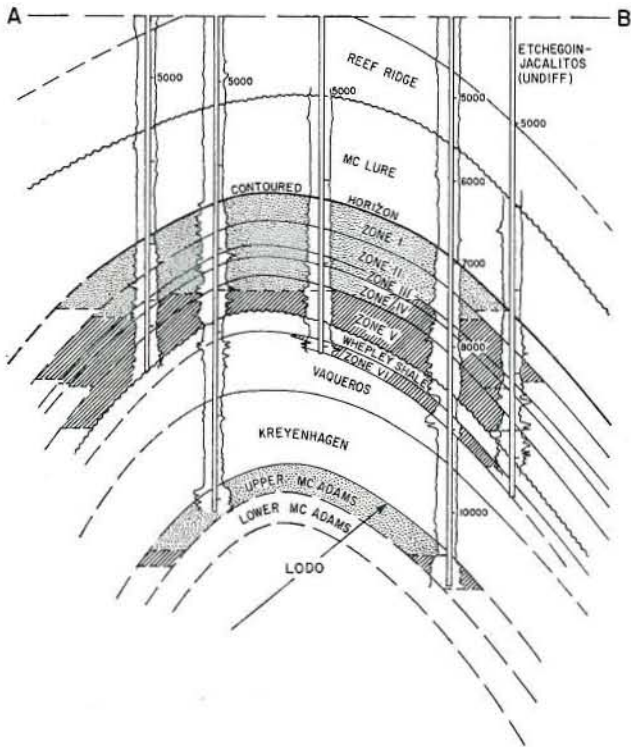
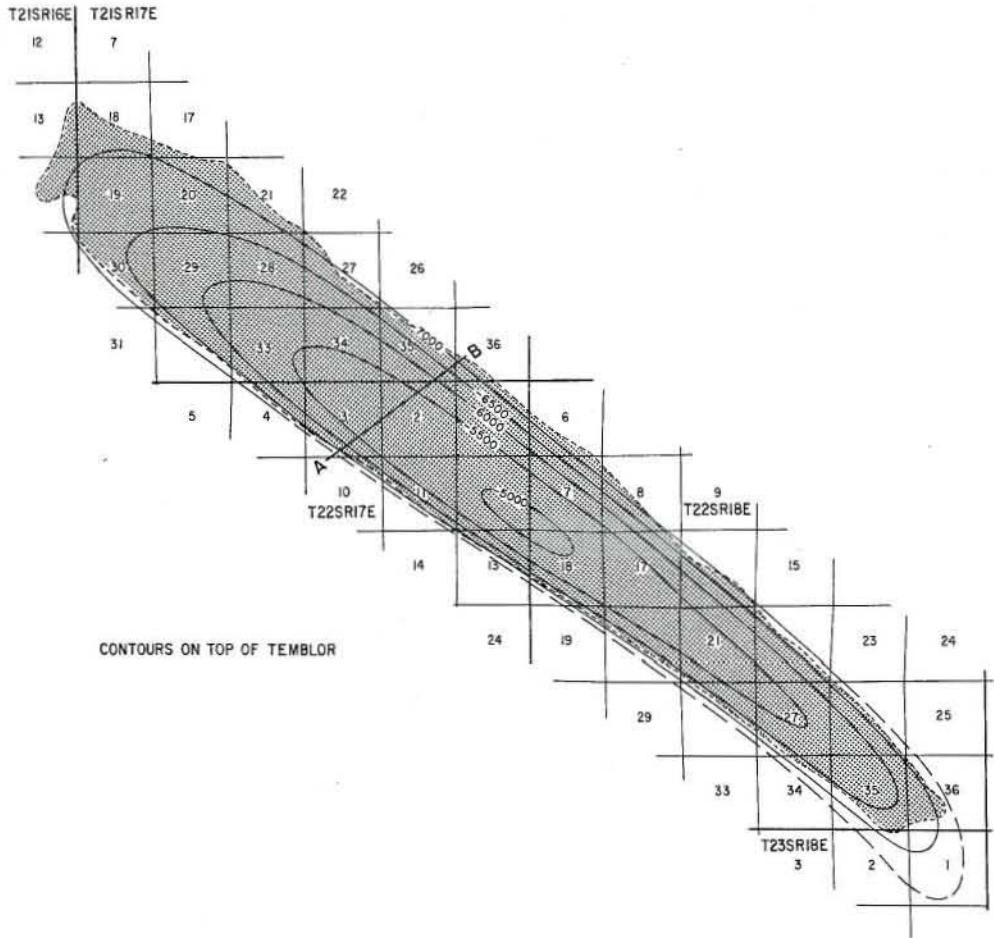
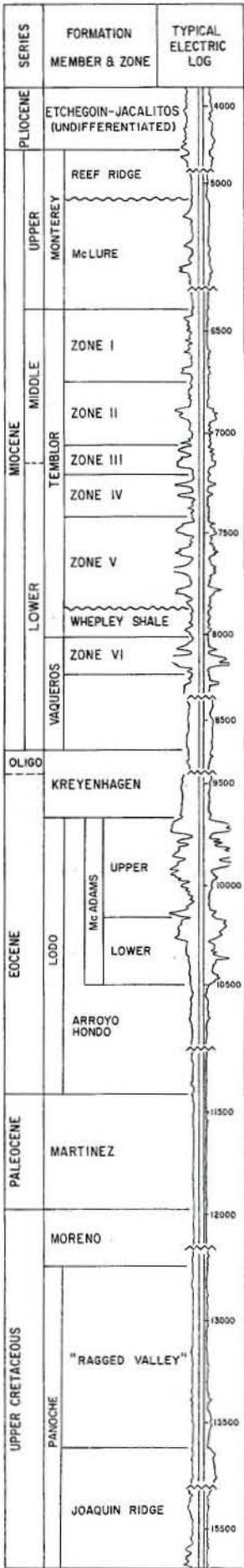
METHOD OF WASTE DISPOSAL: Water is allowed to percolate into sediments containing saline waters.

REMARKS: A total of 3,474 barrels of oil was produced by the two Etchegoin - Jacalitos zone wells prior to the abandonment of the pool in 1929. The Kreyenhagen zone is mainly a fractured shale reservoir.

REFERENCES: Arnold, Ralph and Robert Anderson, The Geology and Oil Resources of the Coalinga District, Calif.: U.S. Geol. Survey Bull. 398 (1910). Hill, F.L., Kettleman Middle Dome Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 51, No. 1 (1965). Woodring, W.P., Ralph Stewart, and R.W. Richards, Geology of the Kettleman Hills Oil Field, Calif.: U.S. Geol. Survey Prof. Paper 195 (1940).



# KETTLEMAN NORTH DOME OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

KETTLEMAN NORTH DOME OIL FIELD

Fresno and Kings Counties

LOCATION: 16 miles southeast of Coalinga

TYPE OF TRAP: Asymmetrical anticline; permeability barriers of major importance in the Vaqueros and Lower McAdams pools

ELEVATION: 600 - 1,350

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Temblor	Standard Oil Co. of Calif., Opr. No. 88	Milham Exploration Co. "Elliott" 1	2 22S 17E	MD	3,670	80,000	Nov 1928
Vaqueros	Standard Oil Co. of Calif., Opr. No. T & V 85	Kettleman North Dome Association No. 85	34 21S 17E	MD	560	881	Sep 1938
Kreyenhagen	Standard Oil Co. of Calif., Opr. No. K 333	Standard Oil Co. of Calif., Opr. No. 533	21 22S 18E	MD	0	19	Jul 1957
Upper McAdams	Standard Oil Co. of Calif., Opr. No. E 4	Kettleman North Dome Association No. 4	18 21S 17E	MD	840	1,172	Feb 1938
Lower McAdams	Standard Oil Co. of Calif., Opr. No. DE 36	Standard Oil Co. of Calif., Opr. No. 36	20 21S 17E	MD	740	5,000	Oct 1940

Remarks: During October 1928, while drilling at 7,108', the Temblor discovery well blew in and was partially out of control for three years. The prominent surface expression of the Kettleman Hills structure was noted as potentially oil productive by early Geologists and nine wells were drilled along the structural trend prior to 1910. Discovery was delayed until equipment was developed capable of drilling to the depths necessary to penetrate the hydrocarbon bearing measures. The Lower McAdams initial production was estimated because the discovery well also produced from the Upper McAdams zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif., Opr. No. E 423	Standard Oil Co. of Calif., Opr. No. 423	Sep 1954	34 21S 17E	MD	15,693	Joaquin Ridge	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Temblor	6,000 - 6,800	1,500	early Miocene	Temblor	28 - 60	1,930	IV
Vaqueros	8,000 - 8,800	200	early Miocene	Vaqueros	31 - 42	1,725	IV
Kreyenhagen	8,900 - 9,700	900	Oligocene & Eocene	Kreyenhagen	30 - 32	1,550	IV
Upper McAdams	9,200 - 10,500	400	Eocene	Lodo	27 - 55	360	IV
Lower McAdams	10,900 - 11,700	450	Eocene	Lodo	27 - 40	415	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
844,362	17,778,062	5,046,707	13,085	146	450,992,006	2,830,781,969	29,156,462	1936	565	516	13,690

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1965	3,553,848	5

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

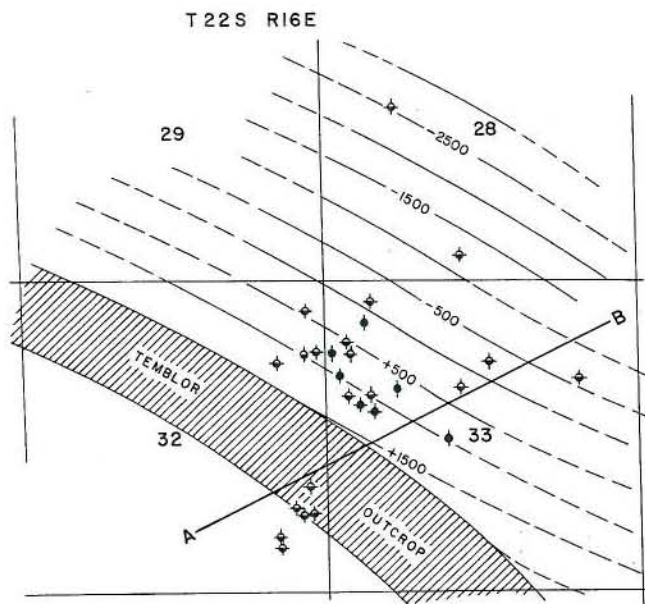
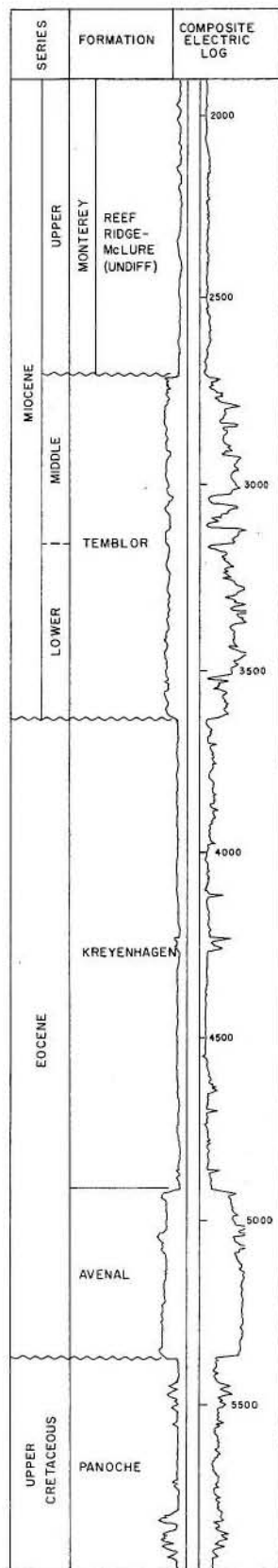
CURRENT CASING PROGRAM: Northern portion: 11 3/4" cem 800; 7" cem 7,000 - 10,000; 5 1/2" liner landed through zone. Central and Southern portion: 13 3/8" cem 400; 9 5/8" cem 6,300; 7" cem 7,000 - 10,000; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Major portion of water is injected. Balance is allowed to percolate into sediments containing saline waters.

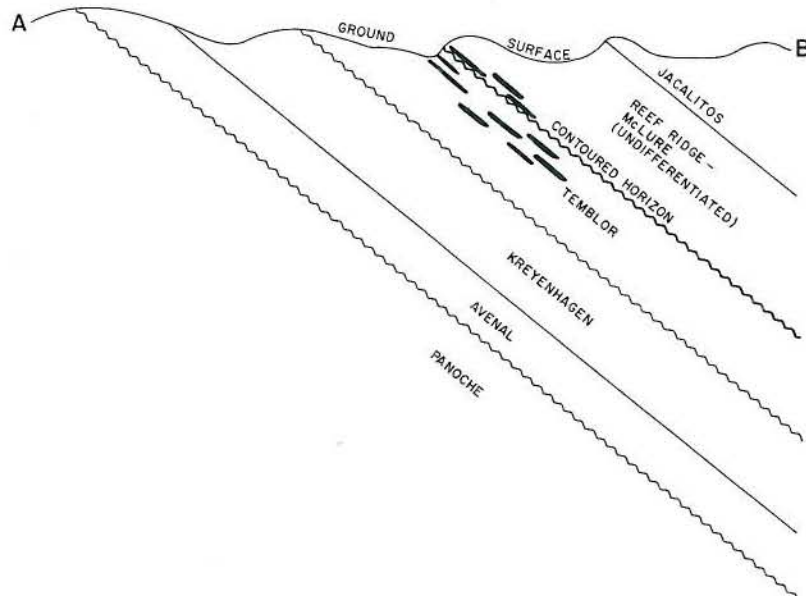
REMARKS: The Kreyenhagen zone is a fractured shale reservoir. As of Dec. 31, 1972, this field has the largest cumulative production of gas in the State. Between 1938 and 1969 a total of 696,060,081 Mcf of gas was injected in the Temblor and Vaqueros pools to maintain reservoir pressure. Between 1962 and 1967 a total of 90,488,093 gal. of propane and 1,390,015 Mcf of dry gas was injected in a miscible-phase flood of the Lower McAdams pool. A water flood was initiated in the Vaqueros pool during 1967 and a total of 303,939 bbls was injected until the project terminated in 1969.

REFERENCES: Arnold, Ralph and Robert Anderson, The Geology and Oil Resources of the Coalinga District, Calif.: U.S. Geol. Survey Bull. 398 (1910). Sullivan, J.C., Kettleman North Dome Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 1 (1966). Woodring, W.P., Ralph Stewart, and R.W. Richards, Geology of the Kettleman Hills Oil Field, Calif.: U.S. Geol. Survey Prof. Paper 195 (1940).

# KREYENHAGEN OIL FIELD



CONTOURS ON TOP OF TEMBLOR



# CALIFORNIA DIVISION OF OIL AND GAS

KREYENHAGEN OIL FIELD

Fresno County

LOCATION: 13 miles southeast of Coalinga

TYPE OF TRAP: Permeability variation within zone and tar seals on a regional homocline

ELEVATION: 1,400 - 1,600

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tembler (includes McLure)	Elmer C. von Glahn "Oceanside" 1	Thomas Petroleum Corp. 1	33 22S 16E	MD	5	N.A.	May 1949

Remarks: Interest was first attracted to the area by the numerous oil seeps.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Taft Well Drilling Co. No. 1	Same	May 1935	33 22S 16E	MD	5,005	Avenal	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tembler (includes McLure)	450	130	m & e Miocene	Tembler	16	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	60	0	1,896	0	1,596	1965	19	8	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 0 - 100

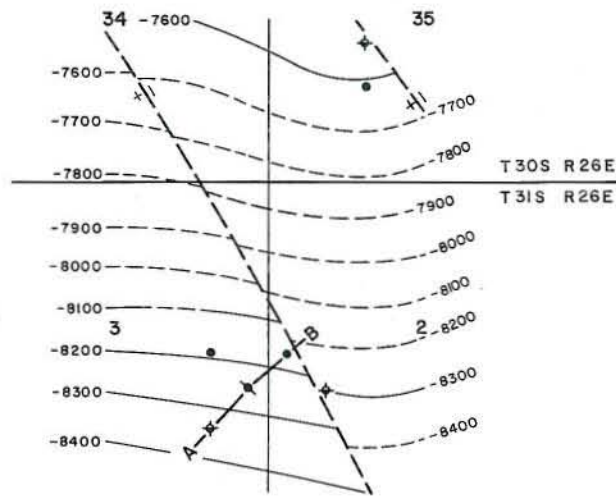
CURRENT CASING PROGRAM: 7" cem. 450; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: A second period of development followed the completion in July 1965 of Santa Fe Drilling Co. well No. "Kreyenhagen" 1 (now Carl E. Kreyenhagen), Sec. 33, T. 22S., R. 16E. Cumulative production prior to July 1965 was 300 barrels of oil. The field has been shut in since December 1965. During 1965, 4,493 barrels of water was injected in steam cyclic operations. In 1970 Getty Oil Co. drilled a well outside the limits of the field, in Sec. 28, to a total depth of 5,916, bottoming in the Panoche.

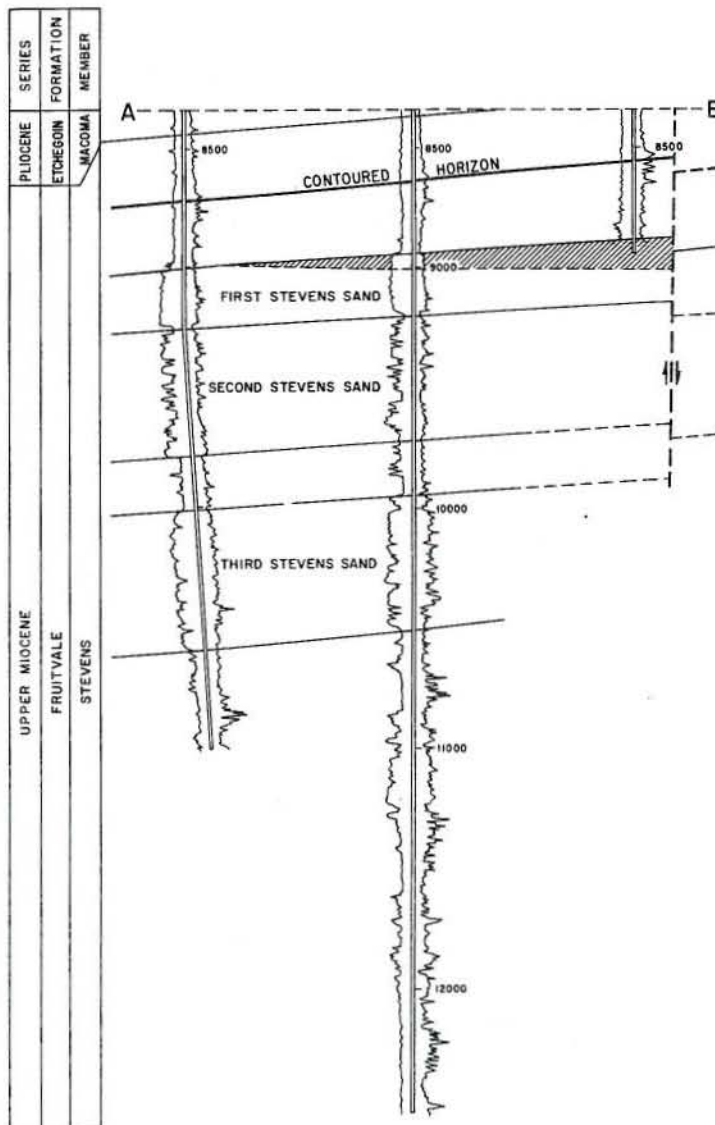
REFERENCES: Arnold, Ralph and Robert Anderson, The Geology and Oil Resources of the Coalinga District, California: U.S. Geol. Survey Bull. 398 (1910). Stewart, Ralph, Geology of Reef Ridge Coalinga District, California: U.S. Geol. Survey Prof. Paper 205-C (1946).

# LAKESIDE OIL FIELD



CONTOURS ON N ELECTRIC LOG MARKER

SCALE 1" = 2000'





## CALIFORNIA DIVISION OF OIL AND GAS

LAKESIDE OIL FIELD

Kern County

LOCATION: 17 miles southwest of Bakersfield

TYPE OF TRAP: Permeability barrier on a faulted homocline

ELEVATION: 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Tenneco West, Inc. No. 15	Tidewater Oil Co. "K.C.L." 15-2	2 31S 26E	MD	117	82	Jan 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco West, Inc. No. 86	Tidewater Oil Co. "K.C.L." 86-3	Oct 1959	3 31S 26E	MD	12,517	Stevens	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	8,900	120	late Miocene	Fruitvale	33	130	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,360	0	2,031	40	2	132,472	193,613	34,296	1960	7	4	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,000

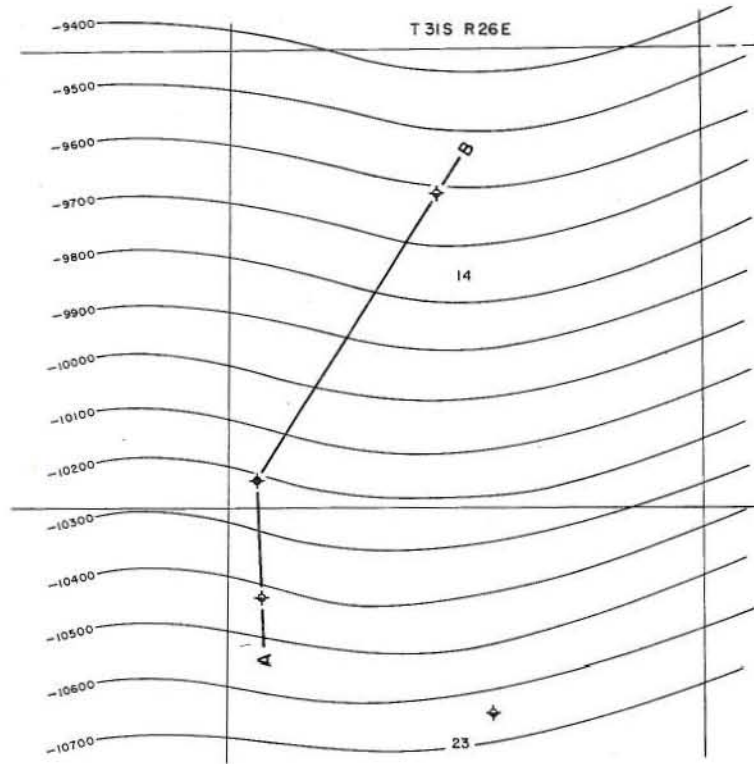
CURRENT CASING PROGRAM: 11 3/4" cem. 900; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps; subsurface disposal project became operative in 1973.

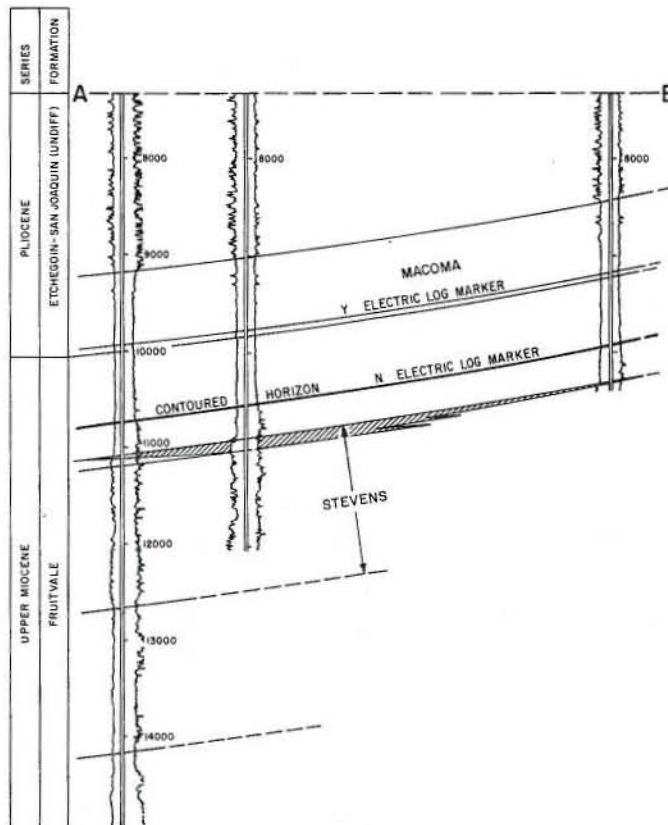
REMARKS:

REFERENCES: Hluza, A.G., Lakeside Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 1 (1963).

# **SOUTH LAKESIDE OIL FIELD** (Abandoned)



CONTOURS ON N ELECTRIC LOG MARKER



## CALIFORNIA DIVISION OF OIL AND GAS

LAKESIDE, SOUTH, OIL FIELD (Abandoned)

Kern County

LOCATION: 13 miles southwest of Bakersfield

TYPE OF TRAP: Lithofacies change on homocline

ELEVATION: 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Atlantic Richfield Co. "KCL O" 18-14	Richfield Oil Corp. "KCL O" 18-14	14 31S 26E	MD	30	30	Mar 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Dec 1959	14 31S 26E	MD	12,033	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Stevens	10,880	70	late Miocene	Fruitvale	29	400	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	2,661	1,963	2,661	1960	1	1	5

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,100

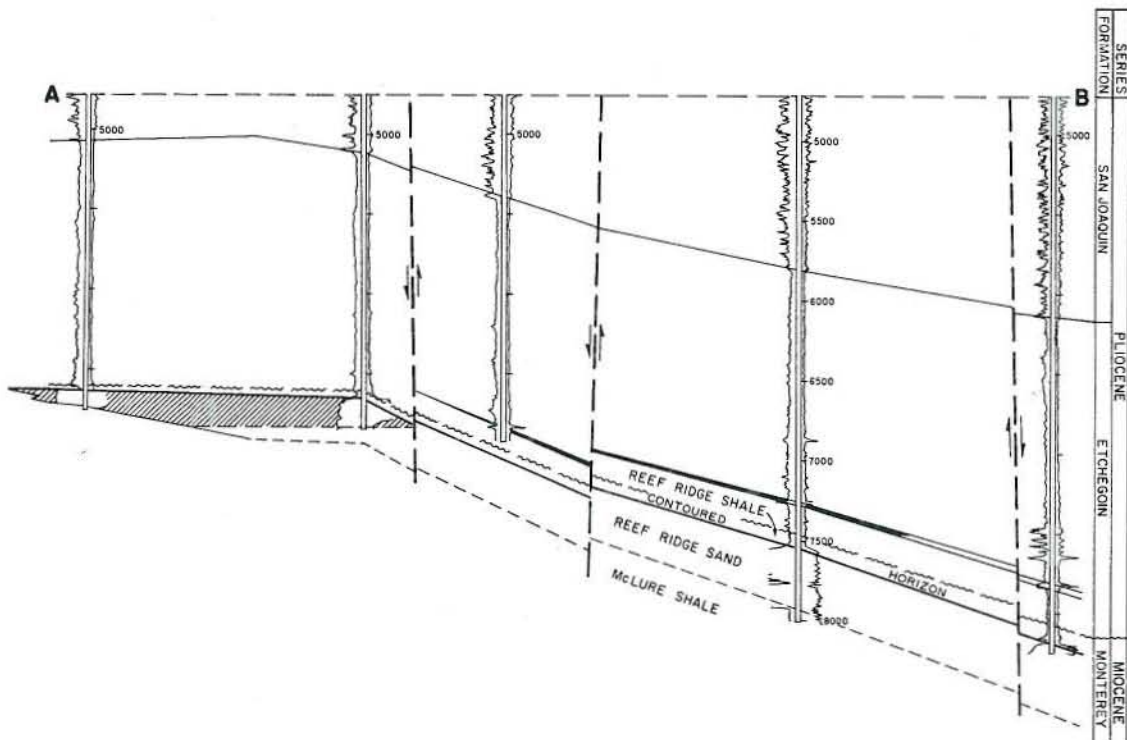
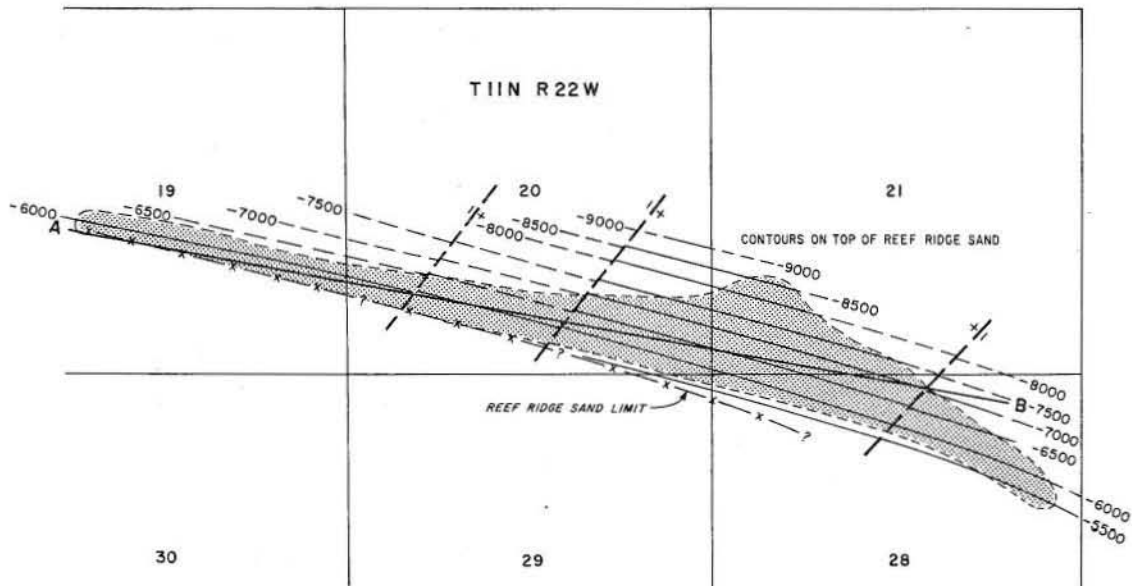
CURRENT CASING PROGRAM: 11 3/4" cem. 1,100; 7" cem. above-zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: The only producing well was abandoned in August 1960.

REFERENCES:

# LOS LOBOS OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

LOS LOBOS OIL FIELD

Kern County

LOCATION: 14 miles southeast of Taft

TYPE OF TRAP: Lithofacies change on homocline

ELEVATION: 950

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin	Tenneco West, Inc. No. 18	Richfield Oil Corp. "San Emidio A" 18-21	21 11N 22W	SB	206	N.A.	Jul 1952
Reef Ridge	Atlantic Richfield Co. "San Emidio A" 27-20	Richfield Oil Corp. "San Emidio A" 27-20	20 11N 22W	SB	218	491	Dec 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco West, Inc. "CWOD" 85	Richfield Oil Corp. "L.L.U." 85-20	May 1954	20 11N 22W	SB	10,414	Antelope	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin	7,500	15	Pliocene	Etchegoin	17	1,200	III
Reef Ridge	6,500	150	late Miocene	Monterey	25	1,650	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
6,902	1,268	23,315	90	2	2,768,690	1,256,110	439,786	1955	33	21	290

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 4,500

CURRENT CASING PROGRAM: 12 3/4" cem. 400; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

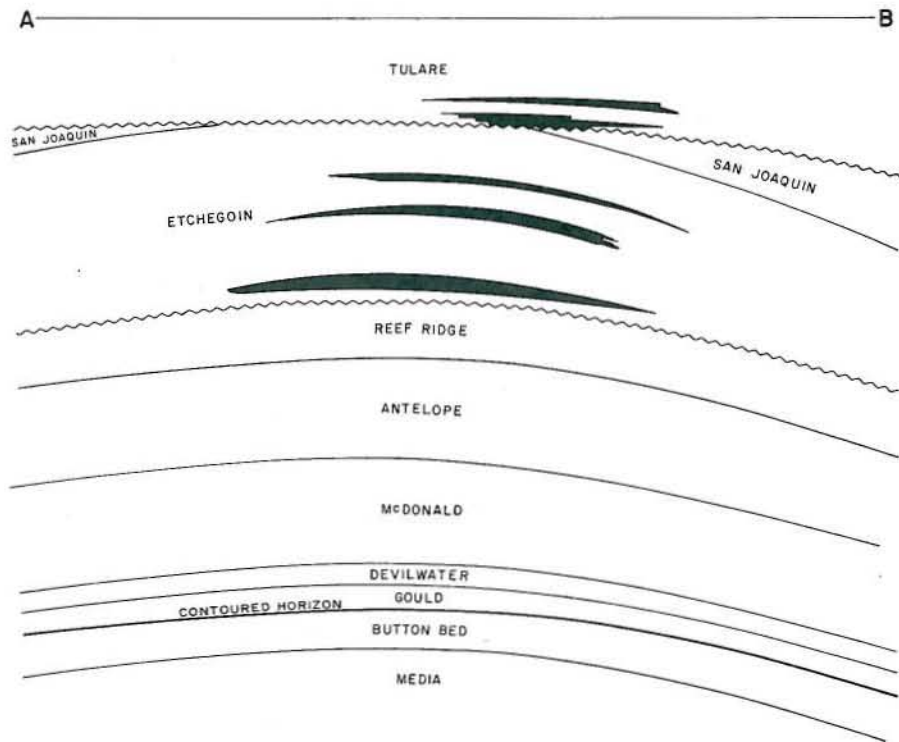
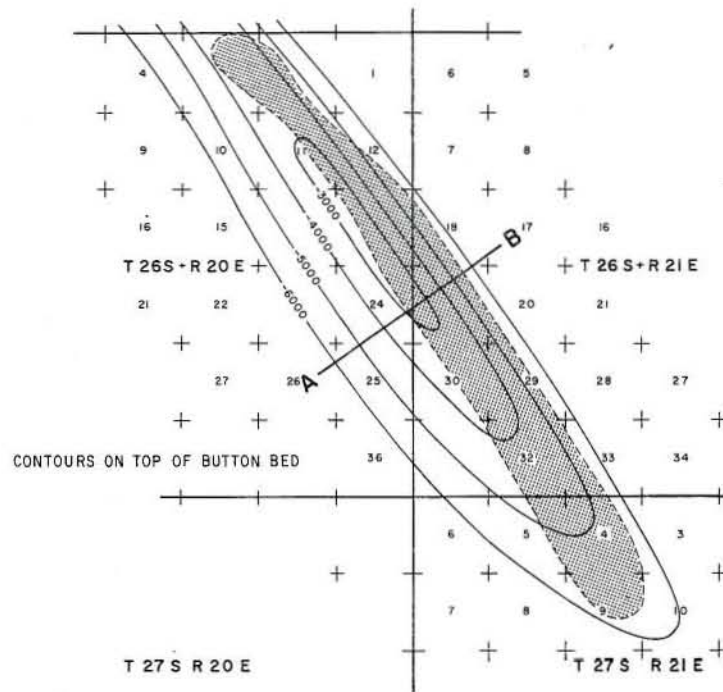
METHOD OF WASTE DISPOSAL: Evaporation and percolation from unlined sumps.

REMARKS: The Reef Ridge zone was abandoned in 1967. A water flood was conducted in the Etchegoin zone from 1957 to 1965. Cumulative injection was 1,855,355 bbls. of water. In the Reef Ridge zone 1,310,000 Mcf of gas was injected for pressure maintenance.

REFERENCES: Ritzius, D.E., Los Lobos Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 40, No. 2 (1954).

# LOST HILLS OIL FIELD

SERIES	FORMATION MEMBER AND ZONE	TYPICAL ELECTRIC LOG
PLEISTOCENE	TULARE	
PLOCENE	ETCHEGOIN	
MIOCENE	REEF RIDGE	
	MONTEREY	
	UPPER	
	ANTELOPE	
	CAHN ZONE	
	MCDONALD	
MIOCENE	DEVILWATER	
	MIDDLE	
	GOULD	
	LOWER	
	TEMBLOR	
	BUTTON BED	
MIOCENE	MEDIA	
	CARNEROS	
	UPPER SANTOS	
	AGUA	
	LOWER SANTOS	
	BLOEMER	
MIOCENE	SALT CREEK	
	TUMELY	
	KREYNHAGEN	
	POINT OF ROCKS	
	LODO	
	ARROYO HONDO	
UPPER CRET	MORENO	



# CALIFORNIA DIVISION OF OIL AND GAS

LOST HILLS OIL FIELD

Kern County

LOCATION: 45 miles northwest of Bakersfield

TYPE OF TRAP: Anticline; lithofacies variations; fractured shale

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare	Mobil Oil Corp. "Lost Hills Two" 45	Lost Hills Development Co. D-4	19 26S 21E	MD	*60	N.A.	Dec 1915
Etchegoin	Gulf Oil Corp. No. 1	Martin and Dudley No. 1	30 26S 21E	MD	176	N.A.	Jul 1910
Cahn	Standard Oil Co. of Calif. "Cahn" 9	Standard Oil Co. "Cahn" 9	9 27S 21E	MD	60	N.A.	Aug 1913
Carneros	Standard Oil Co. of Calif. No. 16	Same as present	29 26S 21E	MD	53	32	Jun 1953

Remarks: Oil discovery was made in a well being drilled for water.

\* Both Tulare and Etchegoin zones open.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Williamson" 33-11	General Petroleum Corp. "Williamson" 33-11	May 1949	11 26S 20E	MD	11,553	Moreno	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tulare	200	100	Pleistocene	Tulare	12 - 20	150	None
Etchegoin	1,000	300	Pliocene	Etchegoin	14 - 40	1,400	None
Cahn	4,900	1,500	late Miocene	Monterey	25 - 35	1,700	II
Carneros	6,020	50	early Miocene	Temblor	32	1,100	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
2,367,220	2,485,615	8,368,197	3,950	1,097	114,595,062	113,257,513	2,782,314	1948	1,537	1,481	4,110

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1952	20,595,589	2
Cyclic-steam	1964	3,787,854	40
Air injection for a fire flood	1961	N.A.	5

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

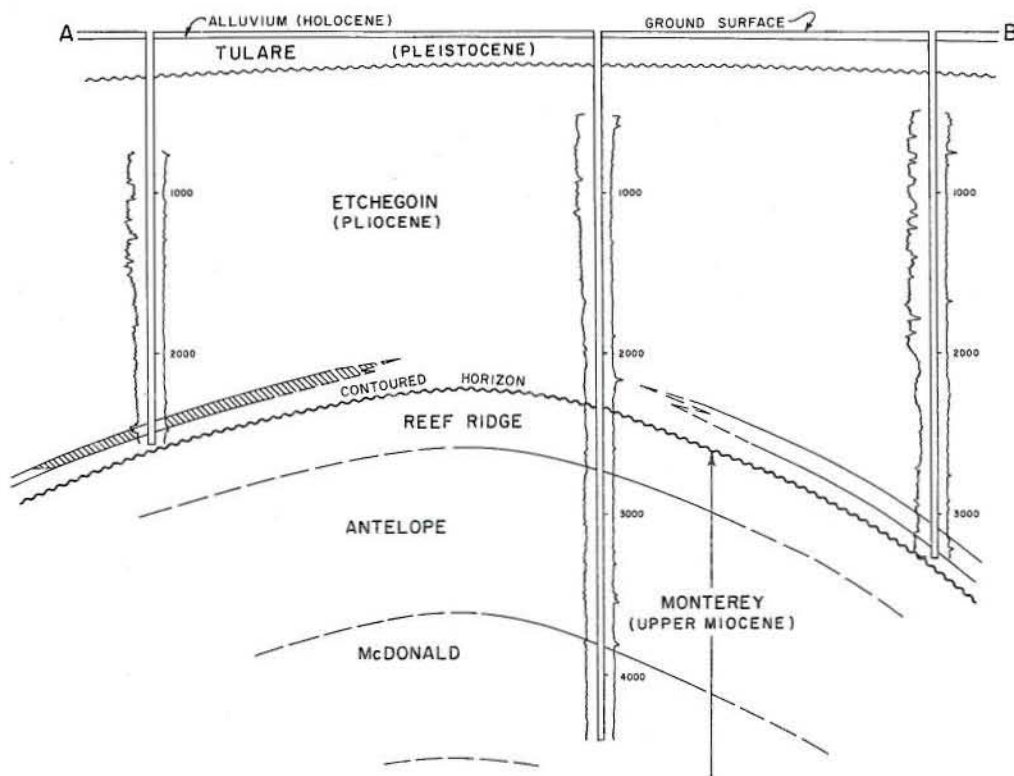
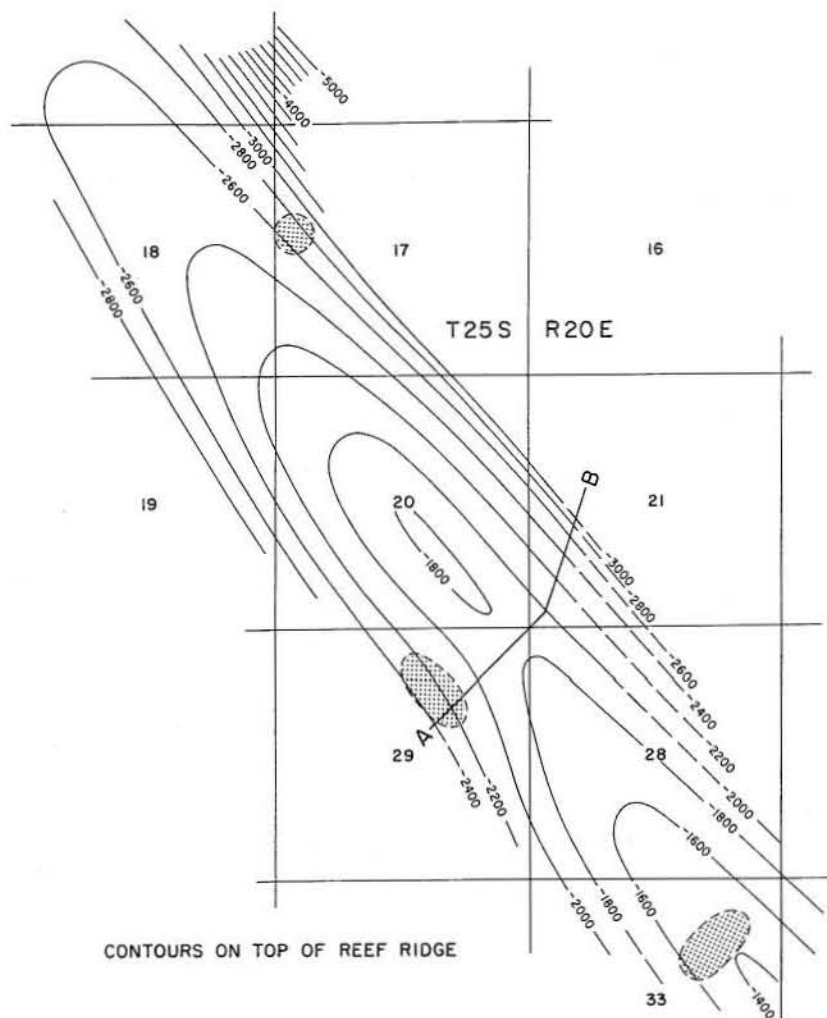
CURRENT CASING PROGRAM: Tulare & Etchegoin zones: 5 1/2" comb. string cem. through ports above zone. Carneros zone: 16" cem. 500; 9 5/8" cem. 4,500; 7" cem. above zone; 5 1/2" liner landed through zone. Cahn zone: 10 3/4" cem. 200; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation from sumps located on Tulare outcrops on west flank of structure; injection into water flood and disposal wells.

REMARKS: Abnormally high pressure and temperature salt water is frequently encountered in the Temblor formation. Cahn zone is a fractured shale reservoir.

REFERENCES: Hardoin, J.L., Cahn Pool of Lost Hills Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 2 (1963).  
Lorshbough, A.L., W-3 Zone Unit of Lost Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 2 (1964).  
McCaie, R.E., Lost Hills Oil Field: Tenth Annual Report of the State Oil and Gas Supervisor of California, Vol. 10, No. 1 (1924).

# NORTHWEST LOST HILLS OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

LOST HILLS, NORTHWEST, OIL FIELD

Kern County

LOCATION: 65 miles northwest of Bakersfield

TYPE OF TRAP: Permeability variations on an asymmetrical anticlinal nose

ELEVATION: 350

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Saunders	Atlantic Oil Co. "Seaboard-Saunders" 63-29	Union Oil Co. of Calif. "Seaboard-Saunders" 63-29	29 25N 20E	MD	11	N.A.	Jun 1954
Farnsworth	Getty Oil Co. "Farnsworth" 14-17	Tide Water Associated Oil Co. "Farnsworth" 14-17	17 25N 20E	MD	36	14	Apr 1953
Overall	Texaco Inc. "Overall" 2	The Texas Co. "Overall" 2	33 25N 20E	MD	30	N.A.	Aug 1954

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. No. 1	Associated Oil Co. No. 1	Jan 1920	20 25N 20E	MD	3,602	Monterey	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Saunders	2,400	100	Pliocene	Etchegoin	24	N.A.	II
Farnsworth	2,735	35	late Miocene	Monterey	28	2,250	II
Overall	2,200	800	late Miocene	Monterey	20	2,250	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,742	0	20,110	20	3	131,425	39,445	13,602	1955	14	5	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

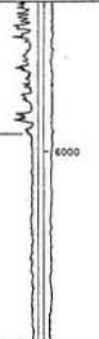

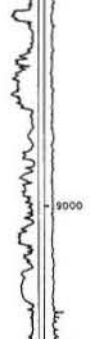
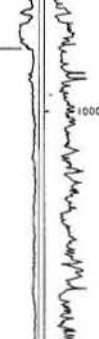

CURRENT CASING PROGRAM: 9 5/8" cem. 400; 7" cem. above zone; 5 1/2" liner landed through zone.

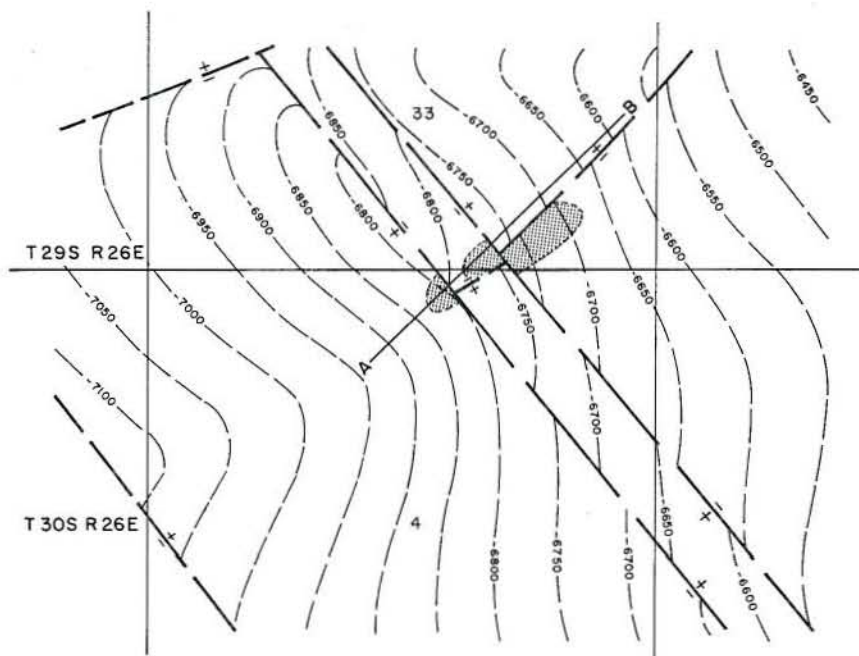
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

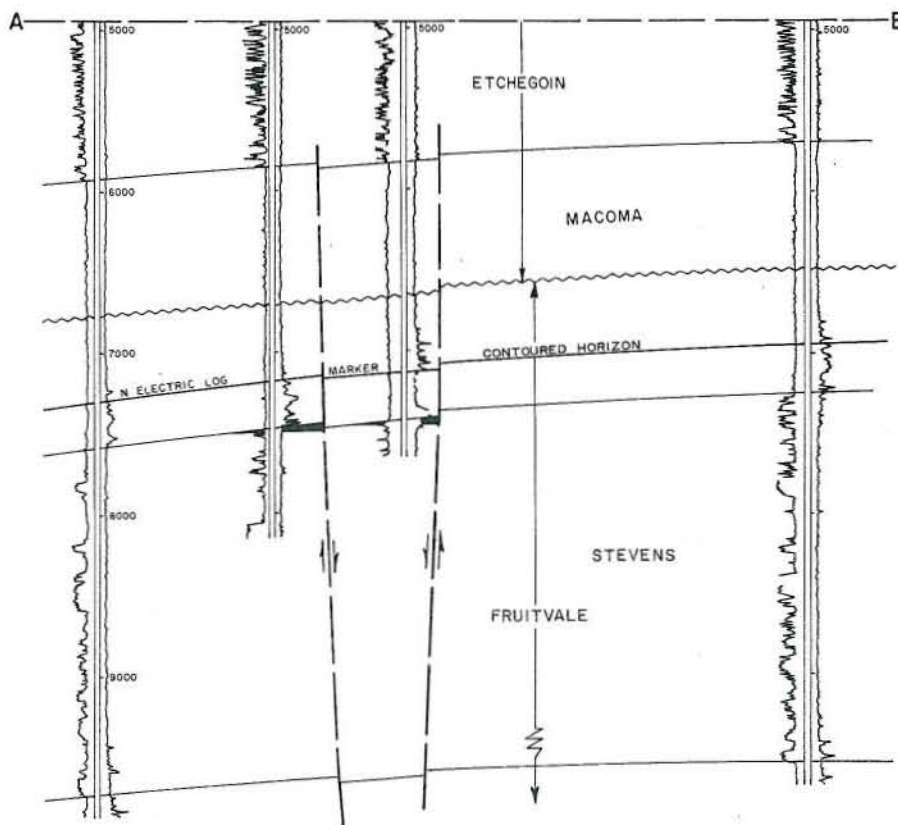
REFERENCES: Hardoin, J.L., Northwest Lost Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 53, No. 2 - Part 2 (1967).

# Mc CLUNG OIL FIELD

SERIES	FORMATION AND MEMBER	TYPICAL ELECTRIC LOG
PLIOCENE	ETCHEGOIN	
	MACOMA	
MIOCENE	UPPER	
	STEVENS	
	FRUITVALE	
MIOCENE	MIDDLE	
	ROUND MOUNTAIN	
	LOWER	
	FREEMAN-JEWETT	
	RIO BRAVO VEDDER	



CONTOURS ON N ELECTRIC LOG MARKER  
SCALE: 1" = 2000'



## CALIFORNIA DIVISION OF OIL AND GAS

MCCLUNG OIL FIELD

Kern County

LOCATION: 10 miles southwest of Bakersfield

TYPE OF TRAP: Faulted homocline with permeability variations

ELEVATION: 360

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Miller & York Oil Operations "K.C.L. G" 1	Continental Oil Co. "K.C.L. G" 1	4 30S 26E	MD	228	N.A.	Sep 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Jun 1943	4 30S 26E	MD	8,134	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	7,450	30	late Miocene	Fruitvale	31	1,410	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
914	0	30,000	10	1	145,526	181,766	47,524	1944	7	3	30

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,300

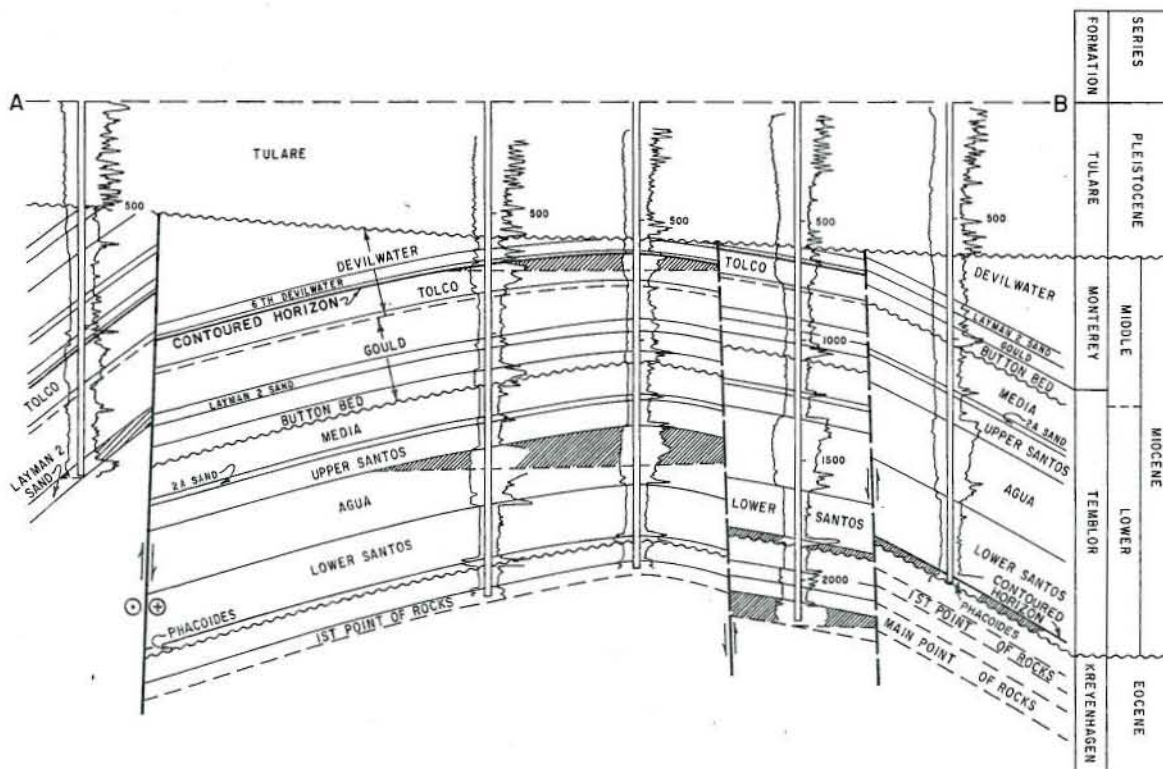
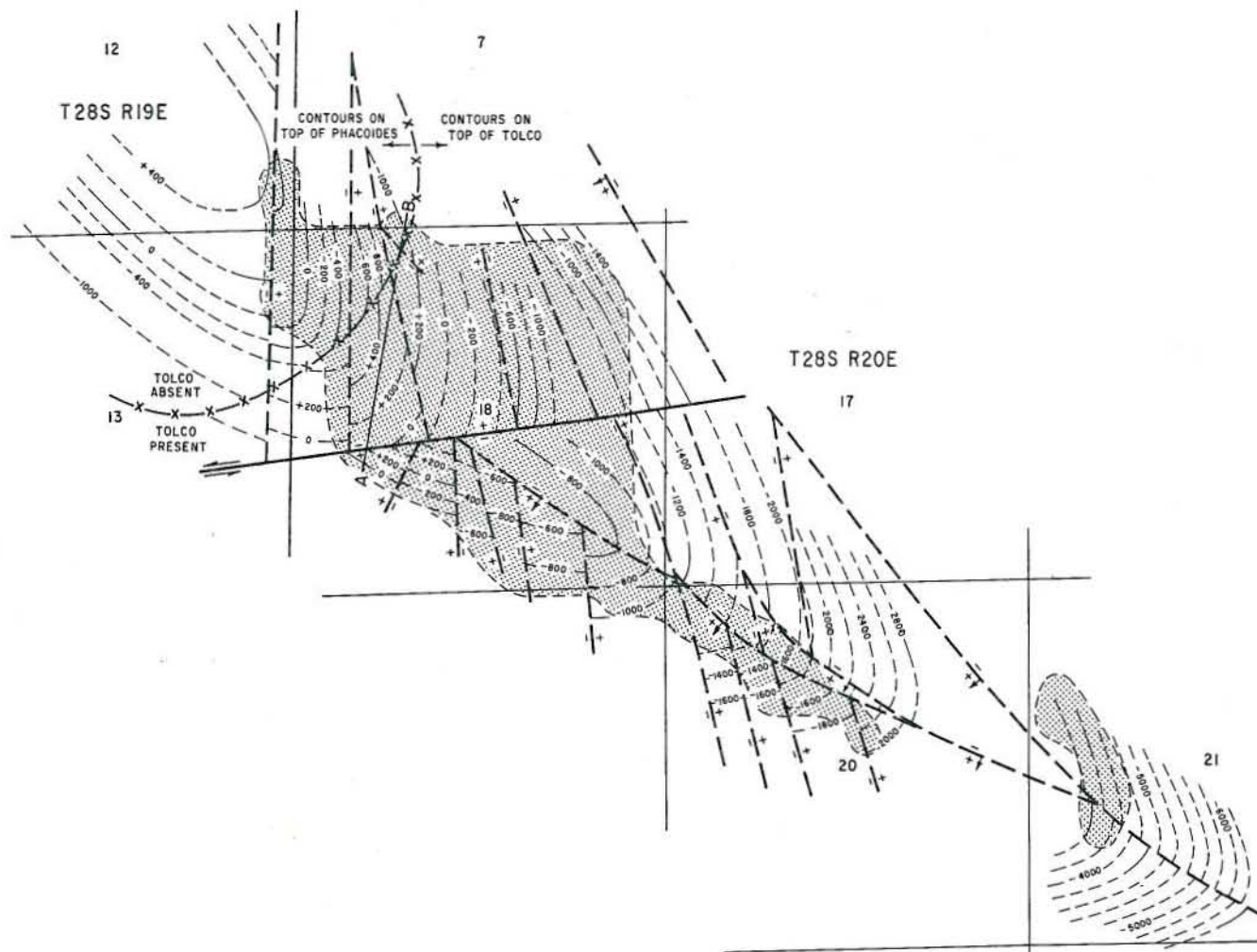
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zone and across base of fresh-water zones.

METHOD OF WASTE DISPOSAL: During 1972 all of the waste water was injected into one disposal well open to the Etchegoin.

REMARKS: Field was abandoned in 1951 and reactivated in 1967.

REFERENCES: Sullivan, J.C., West Bellevue Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1 (1958), p. 47.

# McDONALD ANTICLINE OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

MCDONALD ANTICLINE OIL FIELD

Kern County

LOCATION: 33 miles northwest of Taft

TYPE OF TRAP: Complexly-faulted plunging anticline

ELEVATION: 1,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Fractured shale	Enterprise Oil Co. No. 3-21	Same as present	21 28S 20E	MD	10	0	Feb 1953
Theta (2nd Devilwater), D-1, Layman 101, 6th Sand	The Superior Oil Co. "Theta" 54-20	Same as present	20 28S 20E	MD	75	0	Sep 1951
Tolco (7th Devilwater)	Texaco Inc. "Tolco (NCT-1)" 1	The Texas Co. "Tolco (NCT-1)" 1	20 28S 20E	MD	142	0	Sep 1951
Layman Two	Laymac Corp. "Intex-Layman" 2	Intex Oil Co. "Layman" 2	18 28S 20E	MD	25		May 1948
Button Bed	Laymac Corp. "Mohawk Layman One" H-1	Honolulu Oil Corp. "Honolulu-Wilshire-Layman" 1	18 28S 20E	MD	185	40	Mar 1947
2A	Laymac Corp. "Layman Unit" 40	Same as present	18 28S 20E	MD	18	6	May 1968
Agua	Laymac Corp. "Layman Two" H-3	Wilshire Oil Co. Inc. "Layman" 3	18 28S 20E	MD	30	0	Apr 1946
Phacoides	Laymac Corp. "San Joaquin-Layman" 1	Williams Brothers Oil Co. "Layman" 1	12 28S 19E	MD	40	0	Jul 1945
Oceanic	Enterprise Oil Co. No. 3-21	Seaboard Oil Co. "Seaboard-Bandini" 3-21	21 28S 20E	MD	112	N.A.	Apr 1947
Point of Rocks	Laymac Corp. "Layman One" H-5	Honolulu Oil Corp. "Layman One" 5	18 28S 20E	MD	66	0	Feb 1948

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Texaco Inc. No. 58-21	Texaco Seaboard Inc. No. 58-21	Feb 1948	21 28S 20E	MD	9,467	Phacoides	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Fractured shale	500	1,000	late Miocene	Monterey	13	N.A.	None
Theta (2nd Devilwater)	2,100	30	m Miocene	Monterey	21	260	None
D-1	1,200	60	m Miocene	Monterey	19	N.A.	None
Layman 101	1,400	100	m Miocene	Monterey	19	N.A.	None
6th Sand	1,500	40	m Miocene	Monterey	23	N.A.	None
Tolco (7th Devilwater)	2,600	80	m Miocene	Monterey	20	140	None
Layman Two	1,500	35	m Miocene	Monterey	24	N.A.	None
Button Bed	2,200	90	m Miocene	Temblor	30	30	II
2A	2,600	20	early Miocene	Temblor	24	N.A.	II
Agua	2,600	100	early Miocene	Temblor	25	40	II
Phacoides	1,300	50	early Miocene	Temblor	20	360	II
Oceanic	8,000	60	Oligocene	Tuney	38	N.A.	III
Point of Rocks	3,500	140	late Eocene	Kreyenhagen	38	130	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
706,394	820,077	1,369,647	550	64	13,296,928	9,475,911	565,406	1957	186	109	620

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1968	1,932,883	8

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: Wells not needing BOPE: 8 5/8" cem. above zone; 6 5/8" liner landed through zone. Wells requiring BOPE: 11 3/4" cem. 150 - 800; 7" cem. through zone.

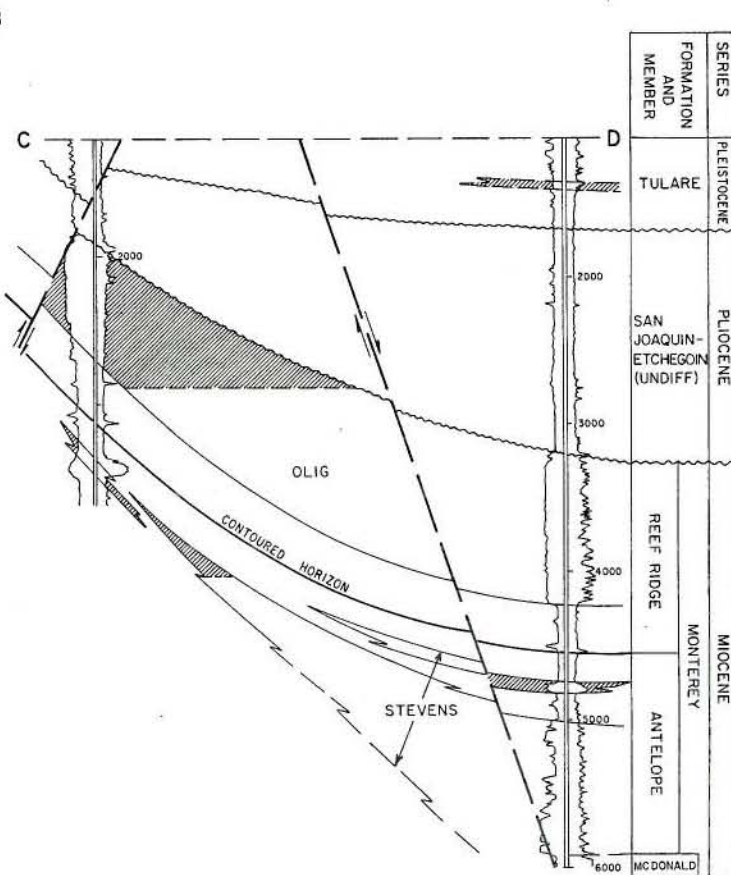
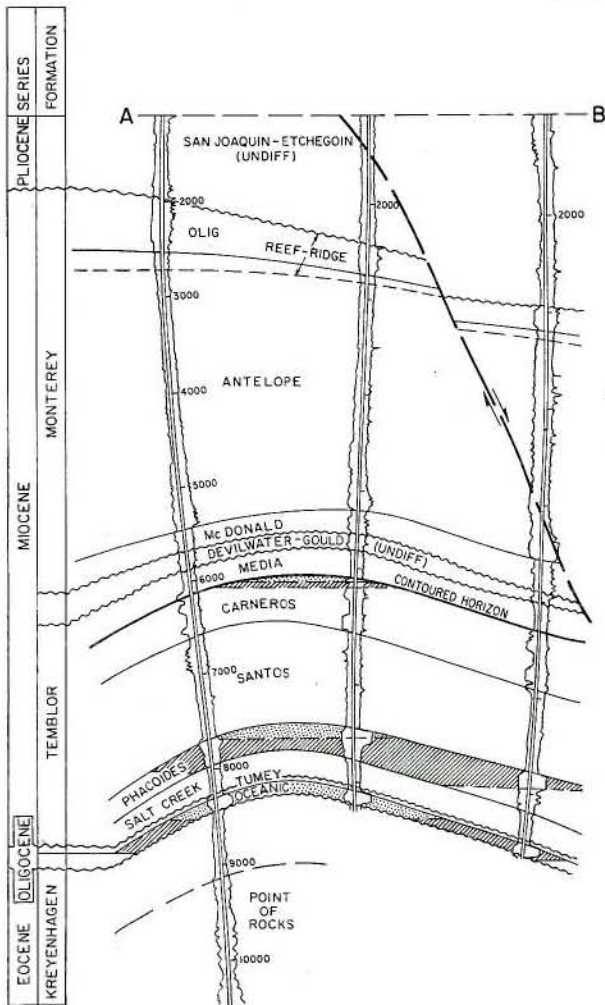
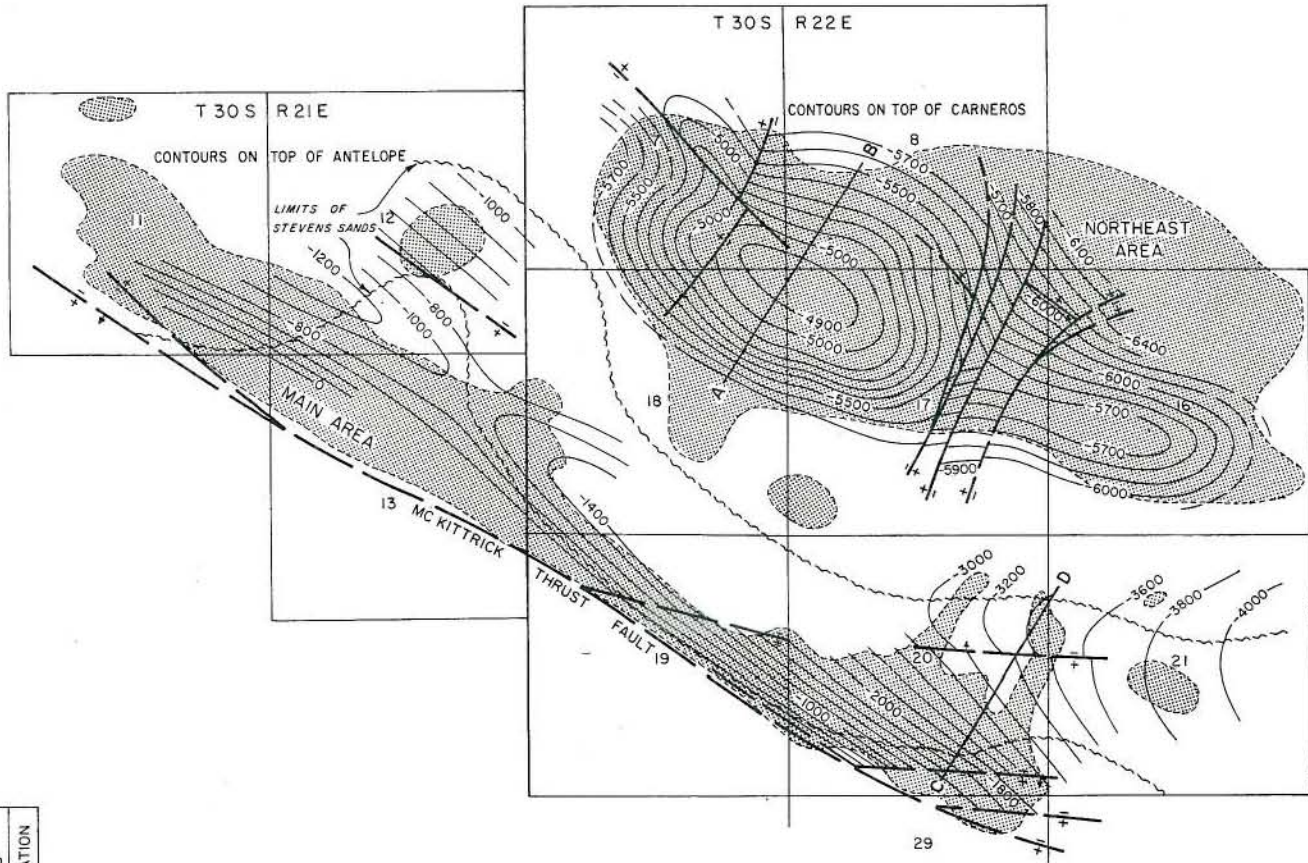
METHOD OF WASTE DISPOSAL: Evaporation and percolation from unlined sumps; injection in water flood wells.

REMARKS: The major part of the field has been under unit operation since 1960. A total of 2,352,000 Mcf of gas was injected in repressuring projects from 1953 to 1966.

REFERENCES: Ferguson, G.C., McDonald Anticline Oil Field, AAPG-SEPM-SEG Guidebook, Joint Annual Meeting, Los Angeles, 1952.

Ritzius, D.E., McDonald Anticline Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 40, No. 1 (1954).

# MC KITTRICK OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

MCKITTRICK OIL FIELD

Kern County

LOCATION: 14 miles northwest of Taft

TYPE OF TRAP: See Areas

ELEVATION: 850 - 1,500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	S & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare	Operator name and well number unknown	Same as present	N.A.	MD	N.A.	N.A.	N.A.

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif., Opr. "Jacobson" 572R	Standard Oil Co. of Calif. "Jacobson" 572	Jan 1965	18 30S 22E	MD	10,864	Point of Rocks	late Eo

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Northeast Area)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
8,642,029	10,652,584	16,007,113	3,290	927	192,393,692	148,134,024	11,425,935	1966	1,597	1,420	3,370

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: In the early 1860's pits and test holes were dug into bituminous outcrops from which asphaltum was bailed. Beginning in 1887 several shallow low volume oil wells were drilled. Circa 1896 Klondike Oil Co. brought in the "Shamrock" well, a 1,300 barrels-of-oil-per-day gusher.

REFERENCES: See areas.



# CALIFORNIA DIVISION OF OIL AND GAS

MAIN AREA

MCKITTRICK OIL FIELD

Kern County

LOCATION: See map sheet of McKittrick Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 1,150 - 1,500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare	Operator name and well number unknown	Same as present	N.A.	MD	N.A.	N.A.	N.A.
Olig	Getty Oil Co. "Shamrock" 1	Klondike Oil Co. "Shamrock" 1	19 30S 22E	MD	1,300	N.A.	about 1896
Basal Reef Ridge	Estate of Frank Rice Short "Tulare" 2	Harry H. Magee, Opr. "Tulare" 2	20 30S 22E	MD	4	0	Feb 1944
Stevens	Rothschild Oil Co. "SP" 3	Same as present	21 30S 22E	MD	280	N.A.	Jan 1964

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Occidental Petroleum Corp. "Standard-Gabriel" 556X-12Y	J. Ainslie Bell, Opr. "Standard-Gabriel" 556X-12Y	Feb 1966	12 30S 21E	MD	9,492	Media	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tulare	500	300	Pleistocene	Tulare	12 - 19	50	None
Olig	800	300	late Miocene	Monterey	12 - 16	450	None
Basal Reef Ridge	1,500	400	late Miocene	Monterey	14 - 21	530	None
Stevens	2,000 - 4,750	175	late Miocene	Monterey	18 - 32	1,200	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
5,436,614	634,289	11,725,032	1,370	650	149,730,817	28,592,313	5,807,360	1909	1,206	1,074	1,440

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1962	34,806,835	716

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: Stevens zone wells: 10 3/4" cem. 500; 7" cem. above zone; 5 1/2" liner landed through zone. Other zones: 8 5/8" or 7" cem. above zone; 6 5/8" or 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps; injection wells.

REMARKS: Lost circulation often experienced while drilling through depleted portions of Olig zone. A steam flood project started in 1965 was discontinued in 1968 after the injection of 1,246,184 bbls. of water (in the form of steam). A great number of vertebrate fossils of Pleistocene age have been recovered by a research group from University of Calif. in excavations of breccia outcrops in Sec. 29, T. 30S., R. 22E.

REFERENCES: Hardoin, J.L., Stevens Pool of the Main Area of McKittrick Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 1 (1966).

Zulberti, J.L., McKittrick Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 1 (1956).



# CALIFORNIA DIVISION OF OIL AND GAS

NORTHEAST AREA

McKITTRICK OIL FIELD

Kern County

LOCATION: See map sheet of McKittrick Oil Field

TYPE OF TRAP: Faulted anticline

ELEVATION: 850 - 1,125

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare	Texfel Petroleum Corp. "McNeil" 2	Charles R. Jacobson "Jacobson-McNeil" 2	18 30S 22E	MD	65	0	Jul 1948
Olig	Standard Oil Co. of Calif. No. 113	Same as present	7 30S 22E	MD	28	0	Jan 1944
Antelope	Standard Oil Co. of Calif. No. 34	Same as present	17 30S 22E	MD	57	0	Jan 1964
Carneros	Standard Oil Co. of Calif. "Spreckels" 555	Same as present	16 30S 22E	MD	556	225	Jul 1964
Phacoides	Standard Oil Co. of Calif. "Spreckels" 555	Same as present	16 30S 22E	MD	541	300	Jul 1964
Oceanic	Standard Oil Co. of Calif. "Jacobson" 581	Same as present	18 30S 22E	MD	20	6,700	Jan 1965
Point of Rocks	Standard Oil Co. of Calif., Opr. "Jacobson" 572R	Standard Oil Co. of Calif. "Jacobson" 572	18 30S 22E	MD	20	N.A.	May 1965

Remarks: Initial production from the Point of Rocks zone was estimated because it was commingled with production from the Phacoides zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif., Opr. "Jacobson" 572R	Standard Oil Co. of Calif. "Jacobson" 572	Jan 1965	18 30S 22E	MD	10,864	Point of Rocks	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tulare	650	400	Pleistocene	Tulare	11 - 25	70 - 420	None
Olig	800	500	late Miocene	Monterey	15	N.A.	None
Antelope	3,600	2,400	late Miocene	Monterey	22 - 28	1,430	III
Carneros	6,500	100	early Miocene	Temblor	34 - 40	1,230	IV
Phacoides	790	300	early Miocene	Temblor	35	570	IV
Oceanic	8,300	125	Oligocene	Tuney	36	680	IV
Point of Rocks	9,100	1,400	late Eocene	Kreyenhagen	24	1,330	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,205,415	10,018,295	4,282,081	1,920	277	42,662,875	119,541,711	7,356,272	1966	391	346	1,930

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	4,672,042	154
Steam flood	1971	308,931	2
Water flood	1970	2,098,343	2

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: Tulare & Olig: 7" cem. above zone; 5 1/2" liner landed through zone. Antelope: 10 3/4" cem. 500; 7" cem. above zone; 5 1/2" liner landed through zone. Carneros & deeper: 10 3/4" cem. through shallow oil zone; 7" cem. through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: A total of 1,232,460 Mcf of dry gas has been produced from 5 wells completed in the Amnicola sand of the Tulare zone at structurally high locations. The gas has a heat value of 997 Btu. Although no BOPE is required for Tulare zone wells, extra care should be used because of the localized occurrences of low pressure gas. An in-situ combustion project was started in the Tulare zone in 1966 and discontinued in 1970.

REFERENCES: Bertholf, H.W., Northeast Area of McKittrick Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 1 (1962).

Weddle, J.R., Northeast Area of McKittrick Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 51, No. 2 (1965).

# MIDWAY-SUNSET OIL FIELD

## NORTHERN

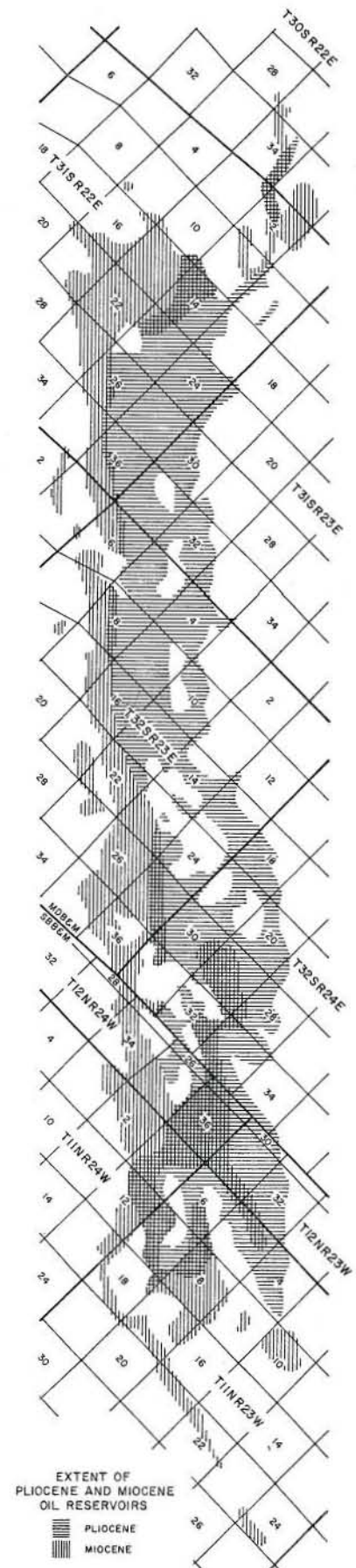
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PLEISTOCENE	TULARE	TULARE TAR	
PLOCENE	SAN JOAQUIN	MYA	
		TOP OIL	
		KINSEY	
		GUSHER	
		CALITROLEUM	
		SUB-CALITROLEUM	
	REEF RIDGE (BELONGS TO DIATOMITE)	POTTER (OLIG)	
UPPER MIOCENE	MONTEREY	MARVIC	
	ANTELOPE SHALE	STEVENS (SPELLACY)	
		REPUBLIC	
		MCDONALD SHALE	

## CENTRAL

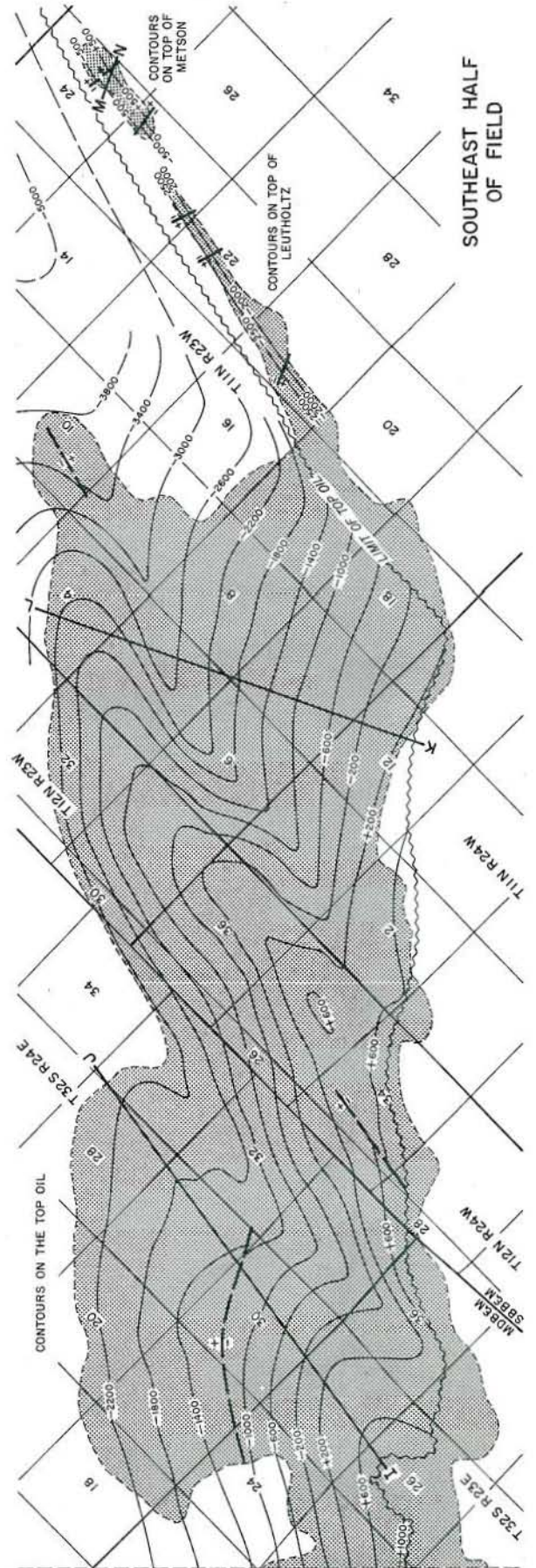
FORMATION	MEMBER AND ZONE	COMPOSITE ELECTRIC LOG
TULARE	TULARE TAR	
SAN JOAQUIN	MYA	
	C ZONE	
	TOP OIL	
	KINSEY	
	WILHELM	
	GUSHER	
	CALITROLEUM	
	REEF RIDGE (BELONGS TO DIATOMITE)	1st & 2nd SUB-LAKEVIEW
		POTTER EQUIV
		PAT
MONTEREY	MONARCH (SPELLACY)	
	ANTELOPE SHALE	10-10
		ABOVE EXETER
		WILLIAMS
		EXETER
		29-D
		GEN AMERICAN
		REPUBLIC
		WILLMAX
		MCDONALD SHALE

## SOUTHERN

FORMATION	MEMBER AND ZONE	COMPOSITE ELECTRIC LOG
TULARE	TULARE TAR	
SAN JOAQUIN	C ZONE	
	O SAND	
	TOP OIL	
	KINSEY	
	WILHELM	
	GUSHER	
	CALITROLEUM	
	REEF RIDGE (BELONGS TO DIATOMITE)	LAKEVIEW
		SUB-LAKEVIEW
		GIBSON
MONTEREY	MONARCH	
	ESSEX	
	10-10	
	INTERMEDIATE	
	WEBSTER	
	ANTELOPE SHALE	
		OBISPO SHALE
		MOCO (ETHEL D)
		UVIGERINA C
		SUB-MOCO
		OBISPO
	PACIFIC SHALE	
	LEUTHOLTZ OR METSON	
	MCDONALD SHALE	

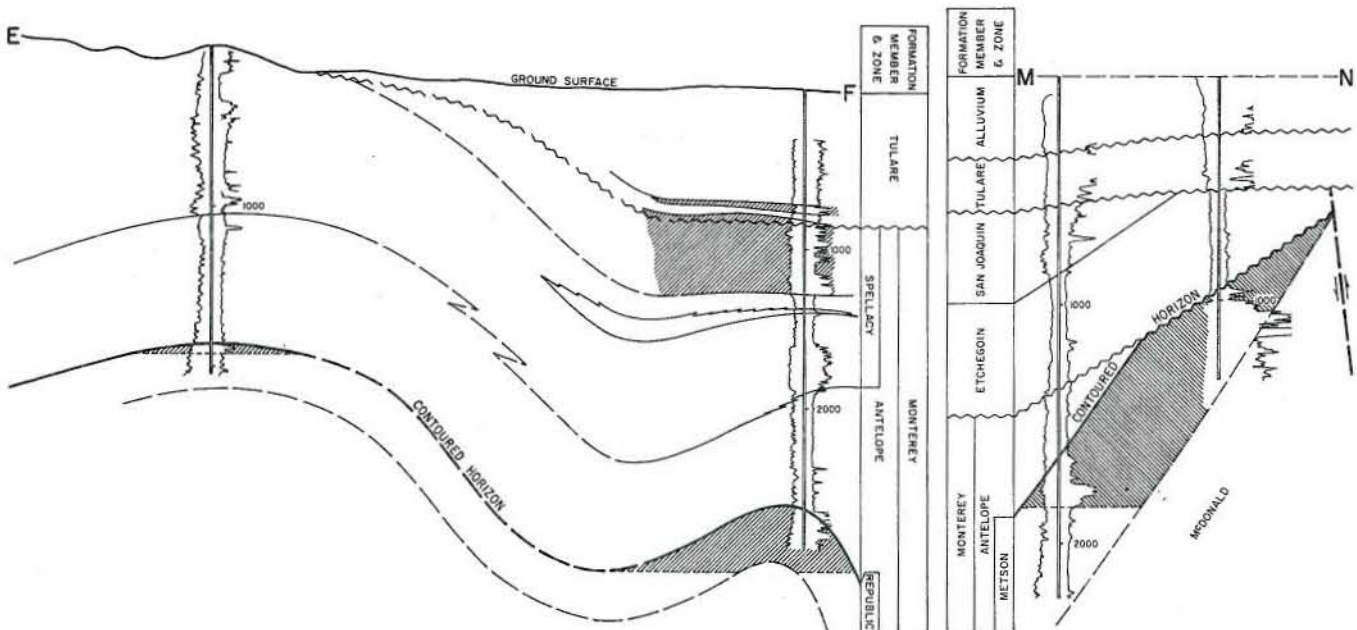
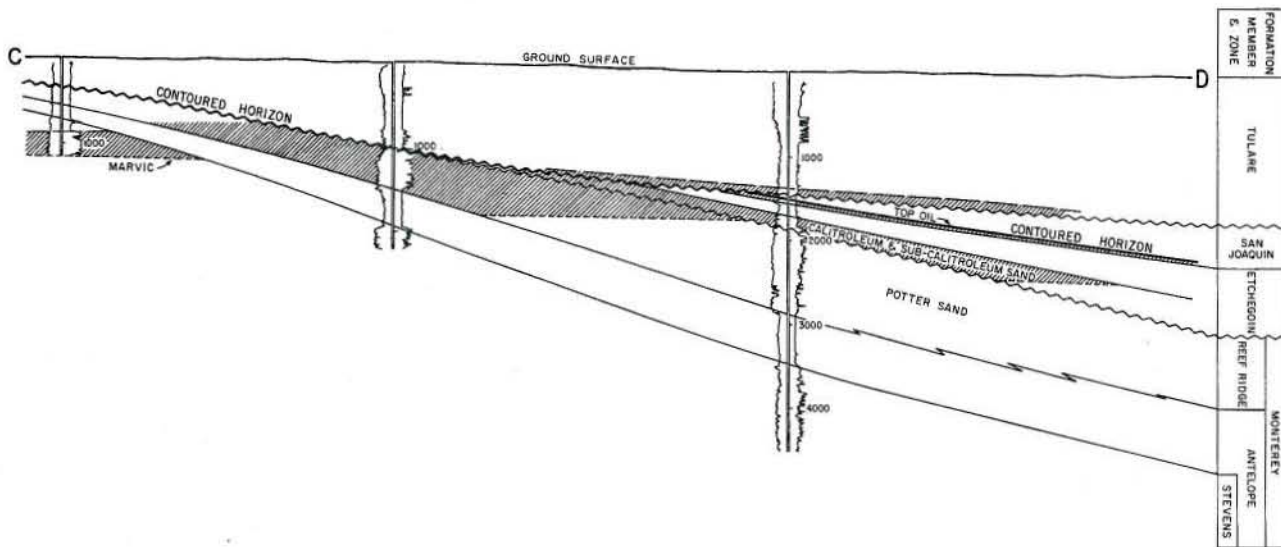
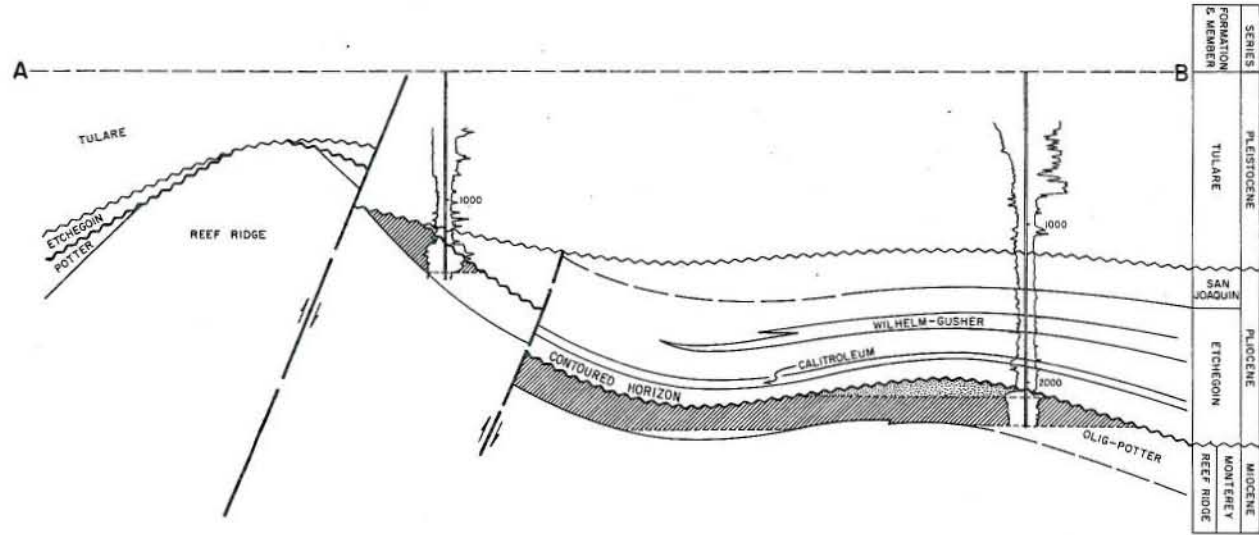






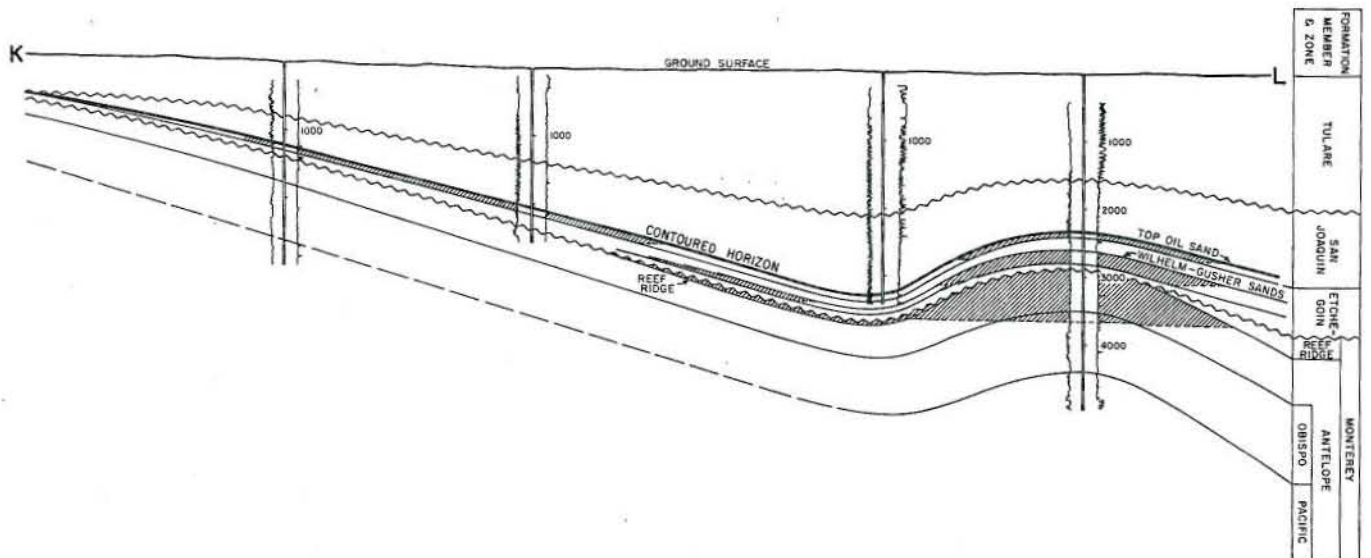
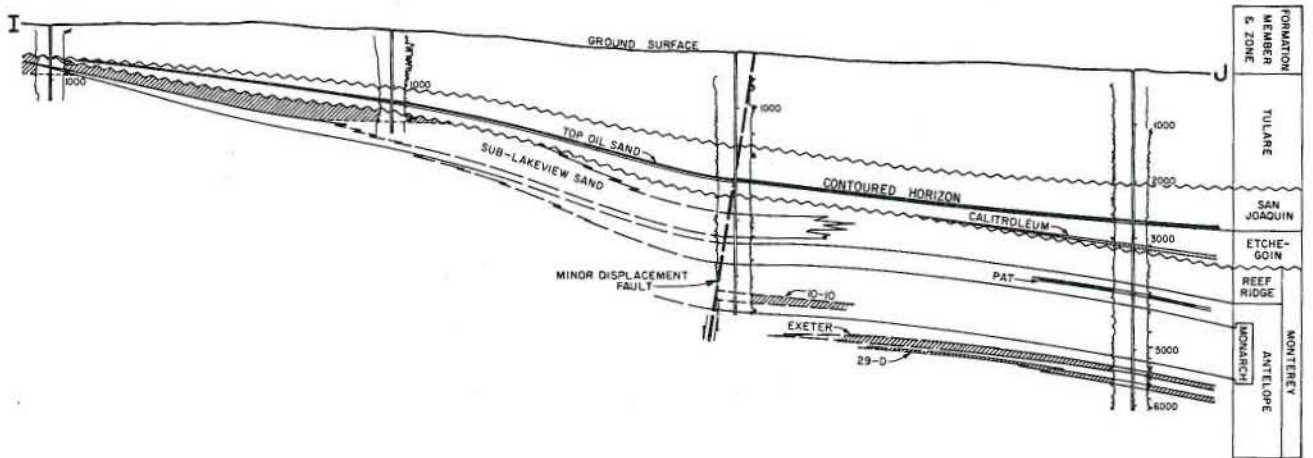
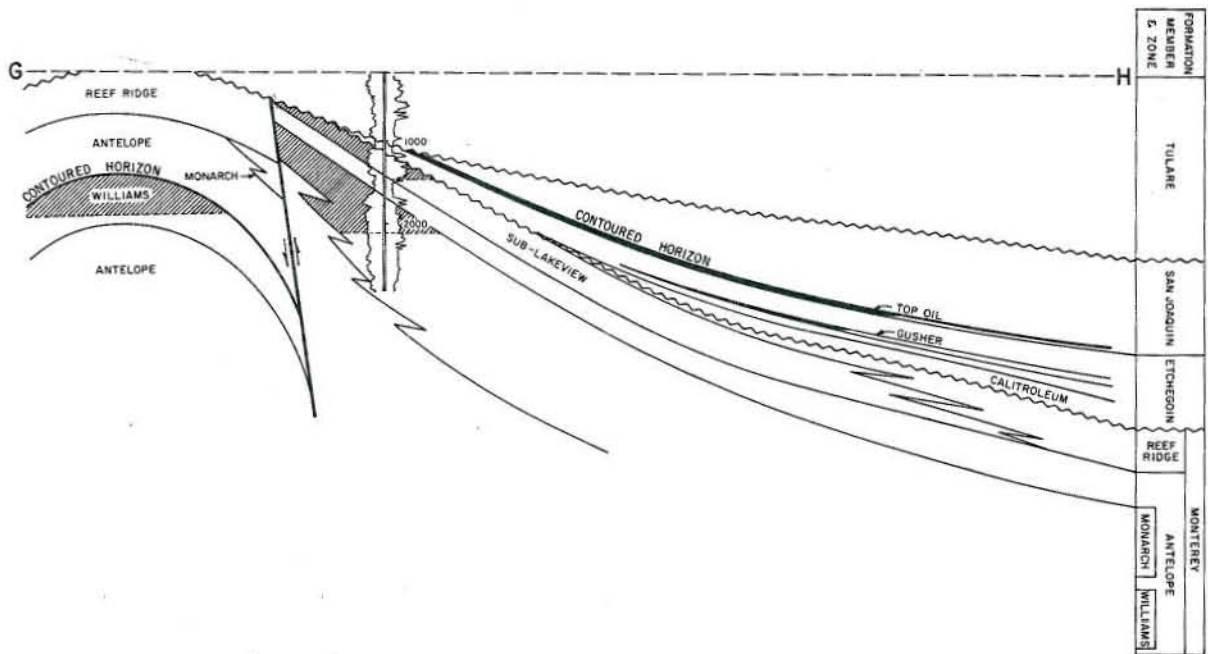


# MIDWAY-SUNSET OIL FIELD





# MIDWAY-SUNSET OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

MIDWAY-SUNSET OIL FIELD

LOCATION: Vicinity of Taft, about 28 miles southwest of Bakersfield

Kern and San Luis Obispo Counties

TYPE OF TRAP: Regional homocline modified by: anticlines; anticlinal noses; lithofacies variations; angular unconformities; lenticular sands; fractured shales

ELEVATION: 600 - 1,750

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tulare	Operator name and well number unknown	Same as present	N.A.	MD	N.A.	N.A.	prior to 1894
Mya Tar	Getty Oil Co. No. 101	Associated Oil Co. No. 101	2 31S 22E	MD	10	N.A.	Jan 1920
Top Oil	Operator name and well number unknown	Operator name and well number unknown	N.A.	MD	N.A.	N.A.	N.A.
Kinsey	Same as above	Same as above	N.A.	MD	N.A.	N.A.	N.A.
Wilhelm	Same as above	Same as above	N.A.	MD	N.A.	N.A.	N.A.
Gusher	Chanslor-Western Oil & Dev. Co. No. 2	Chanslor-Canfield Midway Oil Co. No. 2 A	6 32S 23E	MD	3,000	N.A.	Nov 1909
Calitroleum	Operator name and well number unknown	Same as present	N.A.	MD	N.A.	N.A.	N.A.
Lakeview and Sub-Lakeview	Mobil Oil Corp. "Lakeview" 1	Lake View Oil Co. B No. 1	25 12N 24W	SB	68,000	N.A.	Mar 1910
Potter	Exeter Oil Co. Ltd. "Exeter-BAOC" 101-15	Dominion Oil Co. No. 1	15 31S 22E	MD	100	N.A.	Jan 1910
Marvic	Mobil Oil Corp. "Marvic" 1	Marvic Associates Ltd. No. 1	16 31S 22E	MD	72	N.A.	May 1941
Monarch	Standard Oil Co. of Calif. "Monarch" 28	Sunset-Monarch Oil Co. No. 1	2 11N 24W	SB	N.A.	N.A.	about 1902
Webster	Directors Oil Co. No. 7	Ruby Oil Co. No. 7	2 11N 24W	SB	35	N.A.	Dec 1913
Moco	Mobil Oil Corp. "Moco 35" WT 504	General Petroleum Corp. "Moco 35" 204	35 12N 24W	SB	188	20	Jul 1957
Obispo	Union Oil Co. of Calif. "Obispo" 6	Obispo Oil Co. No. 6	32 12N 23W	SB	6,000	N.A.	Sep 1925
Pacific	Mobil Oil Corp. "Pacific" 4	General Petroleum Corp. "Pacific" 4	32 12N 23W	SB	1,078	N.A.	Jun 1947
Metson	Tenneco Oil Co. "Metson" 47-24	Bankline Oil Co. "Metson" 47-24	24 11N 23W	SB	27	0	Mar 1953
Leutholtz	Gulf Oil Corp. No. 2 - "I.M. Woodward USL"	Western Gulf Oil Co. No. 2 - "I.M. Woodward USL"	21 11N 23W	SB	1,021	120	Aug 1945
Republic	Shell Oil Co. "Sec. 8" 25	Republic Petroleum Co. No. 25	8 32S 23E	MD	1,114	350	Mar 1928

Remarks: A First of over 100 gushers in field and is the first significant production from the Gusher zone.

B "America's Most Spectacular Gusher" blew out and flowed uncontrolled for 18 months after which the flow stopped probably because the bottom of the hole caved in. It was estimated that the early flow rate was about 68,000 b/d and that production amounted to 8-1/4 million barrels oil of which 3-1/2 million barrels was lost by evaporation and seepage.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "C.W.O.D." 58-21	Same	Nov 1957	21 32S 23E	MD	14,504	lower Santos	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tulare	200 - 1,400	50 - 200	Pleistocene	Tulare	13	200 - 1,000	None
Mya Tar	1,100	150	Pliocene	San Joaquin	12	260	None
Top Oil	500 - 2,500	20 - 50	Pliocene	San Joaquin	15 - 23	1,490 - 2,160	None
Kinsey	2,000 - 3,600	15 - 175	Pliocene	Etchegoin	14 - 26	1,500 - 1,860	None
Wilhelm	2,000 - 3,000	100	Pliocene	Etchegoin	14 - 26	1,700 - 2,100	None
Gusher	2,000 - 3,000	75	Pliocene	Etchegoin	14 - 26	1,440 - 1,580	None
Calitroleum	1,500 - 4,500	80	Pliocene	Etchegoin	14 - 26	1,620 - 2,040	None
Lakeview	2,600 - 3,300	20 - 200	late Miocene	Monterey	21	1,670	None
Sub-Lakeview	400 - 3,100	10 - 300	late Miocene	Monterey	22	440	III
Potter	200 - 2,500	60 - 500	late Miocene	Monterey	14	5 - 400	None
Marvic	1,000	200	late Miocene	Monterey	13	40	None
Monarch	600 - 2,000	50 - 400	late Miocene	Monterey	13 - 17	50 - 1,300	None
Webster	1,500 - 1,800	50 - 250	late Miocene	Monterey	14	N.A.	None
Moco	2,150	70 - 450	late Miocene	Monterey	15	980	III
Obispo	3,600	50 - 1,500	late Miocene	Monterey	14 - 27	970	III
Pacific	3,700	50 - 300	late Miocene	Monterey	16	600	III
Metson	1,250	400	late Miocene	Monterey	8 - 12	790	None
Leutholtz	3,200	40 - 400	late Miocene	Monterey	15 - 24	550	III
Republic	1,300 - 4,900	150	late Miocene	Monterey	12 - 24	70	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
34,579,424	5,810,674	66,810,031	24,370	5,549	1,157,831,025	500,583,802	34,579,424	1972	10,318	9,486	28,090

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection	Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1954	20,838,718	15	Air injection for a fire flood	1960	N.A.	24
Steam flood	1963	15,398,177	47	Gas injection for pressure maintenance	1944	43,302,959	7
Cyclic-steam	1963	195,087,515	4,870				

SPACING ACT: Does not apply except at extreme southeast end of field.

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: Various; depending on zone and location.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps; during 1972, 6,222,115 bbl. of waste water was injected into 7 disposal wells.

REMARKS: In a report by W.L. Watts titled "Sunset Oil Claims" in the Calif. State Mining Bureau Bull. No. 3 (1894) mention is made of steam injection into a well in Sec. 21, T. 11N., R. 23W., S.B.B. & M to reduce the viscosity of the heavy oil so it can be pumped to the surface. Later application and refinement of this method of reservoir stimulation was a significant contributing factor toward attaining the peak oil production in 1972.

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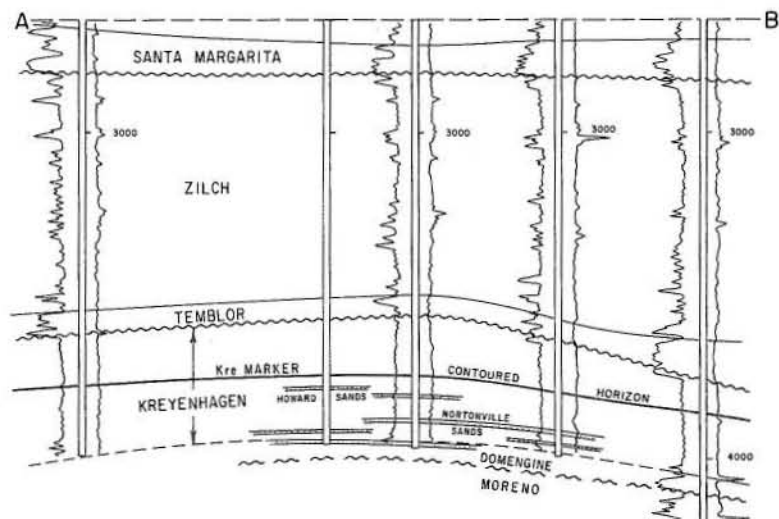
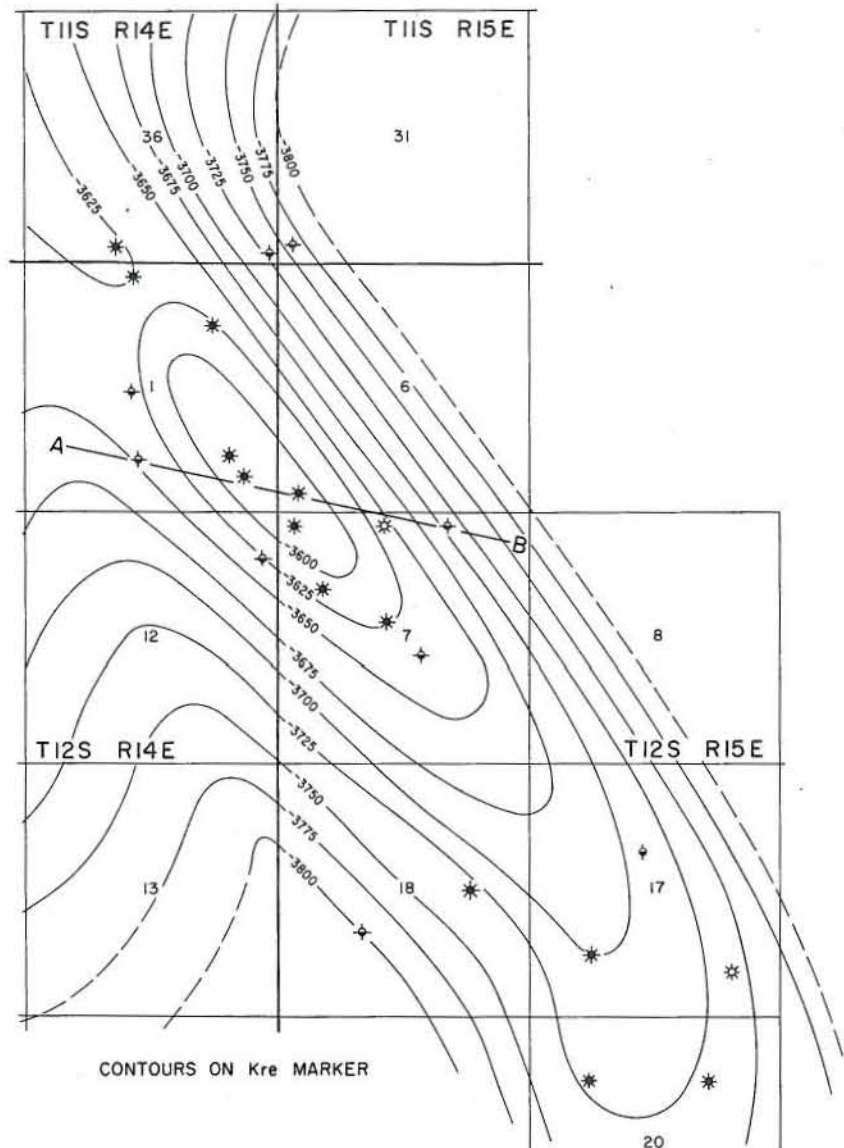
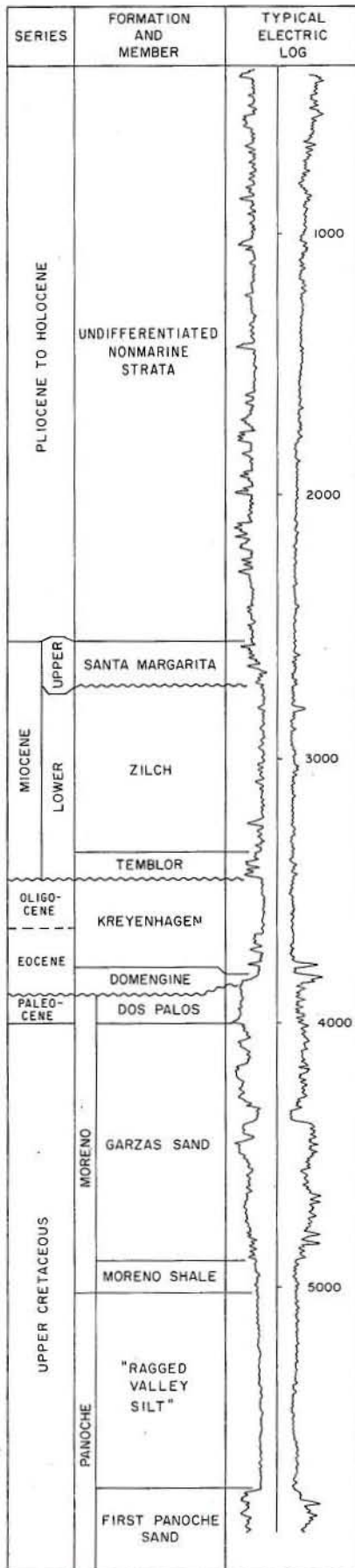
Zulberti, J.L., Republic Sands of Midway-Sunset Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 2 (1957).

Zulberti, J.L., Santiago Area of Midway-Sunset Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1 (1958).

Zulberti, J.L., Thirty-five Anticline of Midway-Sunset Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 1 (1959).



# MOFFAT RANCH GAS FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

MOFFAT RANCH GAS FIELD

Madera County

LOCATION: 18 miles west of Madera

TYPE OF TRAP: Anticline

ELEVATION: 150

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Howard Nortonville Domengine	Trico Industries, Inc. "Howard" 1	Trico Oil and Gas Co. "Howard" 1	36 11S 14E	MD	4,220	1,125	41/64	Aug 1953
	Trico Industries, Inc. "Moffat" 1-7	The Texas Co. "Moffat" 1-7	7 12S 15E	MD	6,570	1,118	1/2	Sep 1943
	Trico Industries, Inc. "Moffat" 1-6	Trico Oil and Gas Co. "Moffat" 1-6	6 12S 15E	MD	11,000	1,590	2	Oct 1954

Remarks: The "Howard" 1 well did not begin sustained production until Oct. 1954, at which time it produced at 1,820 Mcf/d: "Moffat" 1-7 began production during May 1946 at a rate of approximately 30 Mcf/day.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Kenyon C. Sills, Opr., Inc.	Union Oil Co. of Calif. "Union-Texas U.S. Royalty" 77-17	Oct 1958	17 12S 15E	MD	6,716	Second Panoche sand	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Howard	3,800	5	Eocene	Kreyenhagen	920	N.A.	1,575	IV
Nortonville	3,920	12	Eocene	Kreyenhagen	930	1,550	1,620	IV
Domengine	3,960	12	Eocene	Domengine	900	N.A.	1,620	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
42,140	0	540	2	7,214,400	613,186	1956	26	15	590

SPACING ACT: Applies

BASE OF FRESH WATER: 500

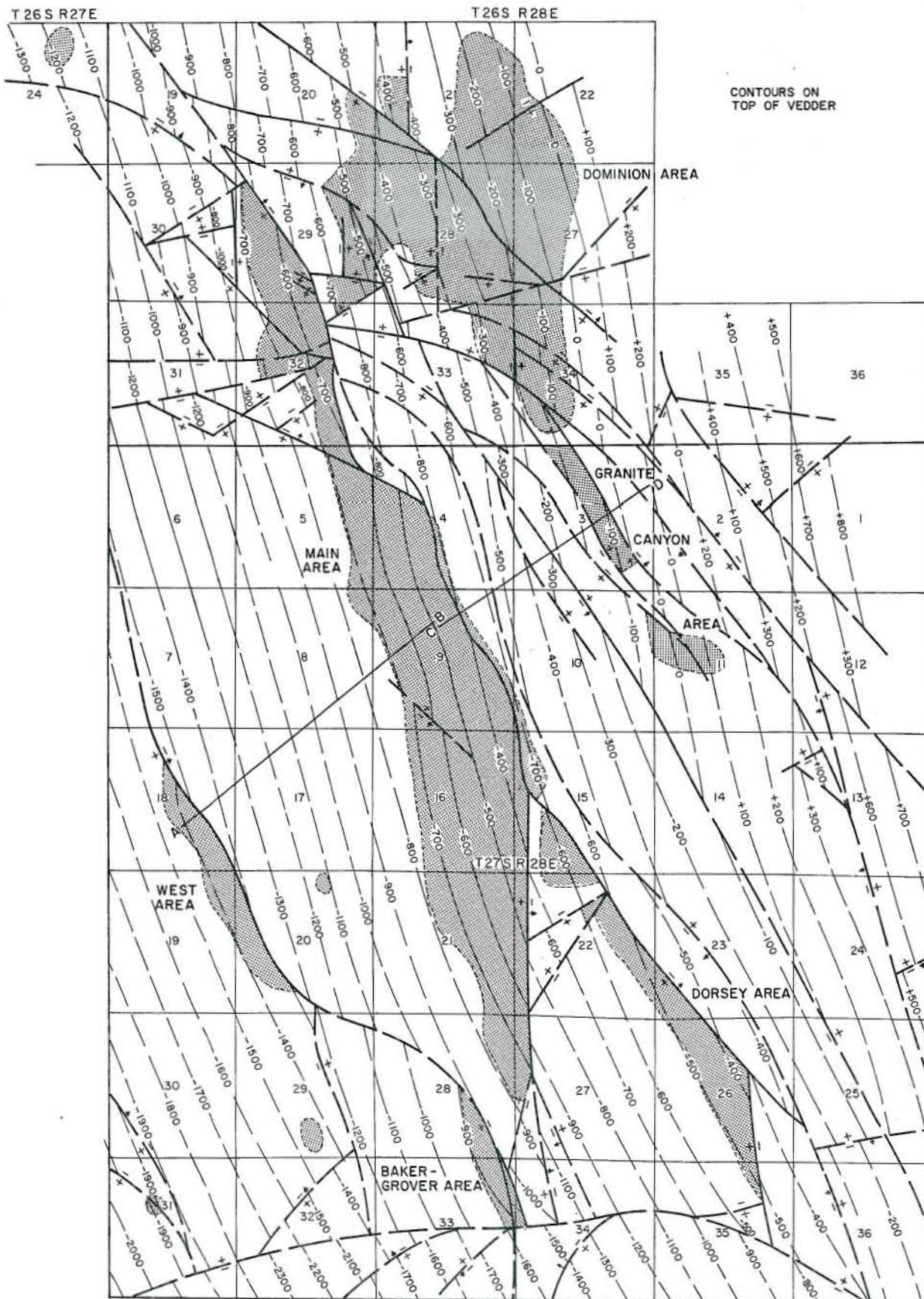
CURRENT CASING PROGRAM: 9 5/8" cem 500; 5 1/2" cem 4,000.

METHOD OF WASTE DISPOSAL:

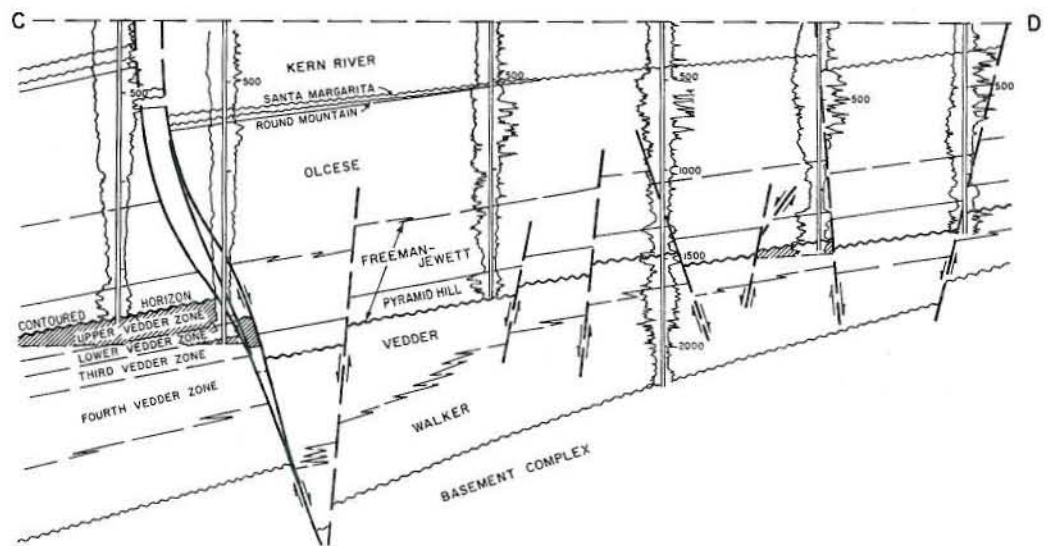
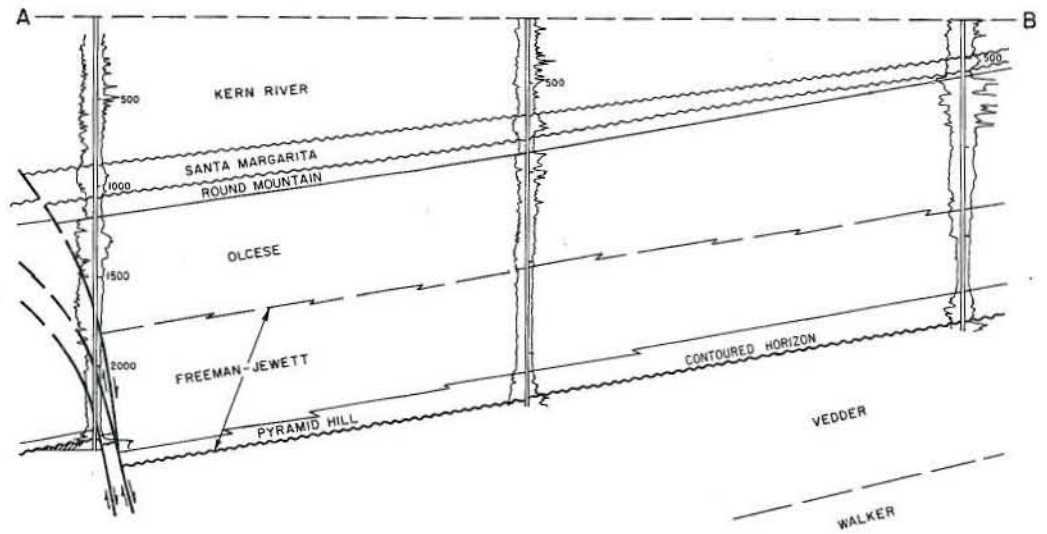
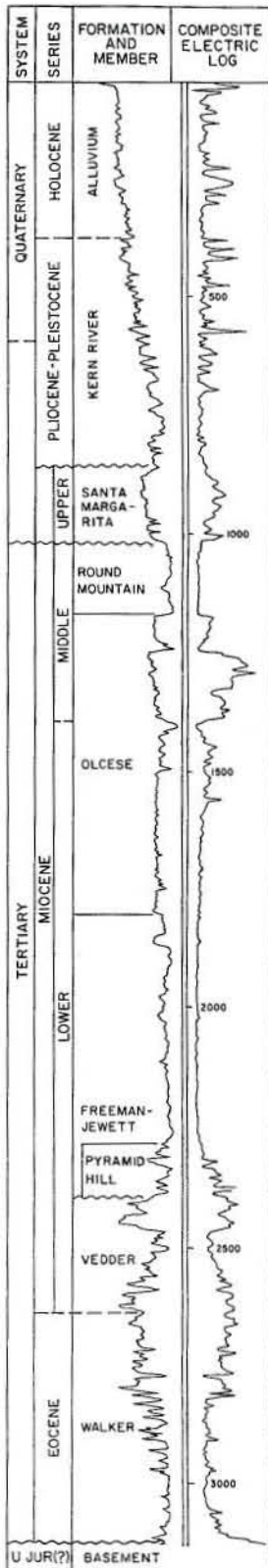
REMARKS:

REFERENCES: Hill, F.L., Moffat Ranch Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 2 (1961).

# MOUNT POSO OIL FIELD



# MOUNT POSO OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

MOUNT POSO OIL FIELD

Kern County

LOCATION: 13 miles northeast of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 650 - 1,450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M.	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pyramid Hill and Upper Vedder	Shell Oil Co. "Vedder" 1	Shell Co. of California "Vedder" 1	9 27S 28E	MD	300	N.A.	Jul 1926

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Pacific Oil and Gas Dev. Corp. "City of San Francisco" 56-32	Same	Aug 1957	32 27S 28E	MD	3,759	Walker	Eocene

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,830,017	728	84,316,129	3,630	532	164,558,017	1,977,245	8,427,304	1943	1,184	828	3,805

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: Albright, M.B., A.G. Hluza, and J.C. Sullivan, Mount Poso Oil Field, Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 2 (1957).



# CALIFORNIA DIVISION OF OIL AND GAS

MOUNT POSO OIL FIELD

WEST AREA

Kern County

LOCATION: See map sheet of Mount Poso Oil Field

TYPE OF TRAP: Faulted homocline with permeability variations

ELEVATION: 700 - 1,075

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Vedder	Thomas Oil Co. "Ring 18" 1	Dwight G. Vedder No. 1	18 27S 28E	MD	0	5,300	Dec 1943

Remarks: Gas cap was of limited volume. After being shut in for one year the discovery well was recompleted producing oil.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Pacific Oil & Gas Dev. Corp. "City of San Francisco" 56-32	Same	Aug 1957	32 27S 28E	MD	3,759	Walker	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Vedder	2,575	15 - 50	early Miocene	Vedder	16	60	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
32,036	0	1,421,879	195	23	2,888,399	0	190,765	1957	92	47	220

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,800

CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps (to be phased out).

REMARKS: Vedder zone water contains 3 to 4 ppm boron.

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

MOUNT POSO OIL FIELD

MAIN AREA

Kern County

LOCATION: See map sheet of Mount Poso Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 700 - 1,450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pyramid Hill and Upper Vedder	Shell Oil Co. "Vedder" 1	Shell Oil Co. of Calif. "Vedder" 1	9 27S 28E	MD	300	N.A.	Jul 1926
Lower Vedder	Shell Oil Co. "Vedder" 6	Same as present	9 27S 28E	MD	835	N.A.	Jan 1933
Third Vedder	Unknown	Unknown	4 27S 28E or 9	MD	N.A.	N.A.	Prior to 1957
Fourth Vedder	Shell Oil Co. "Glide" 6	Same as present	15 27S 28E	MD	134	N.A.	Aug 1957

Remarks: The first separate well that produced from the Pyramid Hill zone was Shell Oil Co. "Security" 3, Sec. 9, T. 27S., R. 28E. Initial production was 4 barrels per day.

A Commingled production from Upper Vedder and Lower Vedder.

B Commingled production from Third Vedder and Fourth Vedder.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Trico Industries, Inc. "USL" 6-2	Trico Oil and Gas Co. "USL" 6-2	Jul 1960	6 27S 28E	MD	2,665	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pyramid Hill	1,600	160	early Miocene	Pyramid Hill	17	N.A.	None
Upper Vedder	1,750	140	early Miocene	Vedder	16	80	None
Lower Vedder	1,900	80	early Miocene	Vedder	16	N.A.	None
Third Vedder	1,985	120	early Miocene	Vedder	16	75	None
Fourth Vedder	2,105	50	early Miocene	Vedder	16	65	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,590,436	728	75,595,054	2,225	374	146,734,300	1,977,245	7,982,576	1943	641	524	2,265

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Steam flood	1963	9,351,042	11

SPACING ACT: Does not apply

BASE OF FRESH WATER: 1,000 - 1,500

CURRENT CASING PROGRAM: 8 5/8" cem. above zone and across base of fresh-water sands; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps; injection into Vedder sand.

REMARKS: A cyclic-steam project was started in 1963 and discontinued after 116,623 bbls. of water in the form of steam was injected. A water flood project was started in 1952 and discontinued after 608,470 bbls. of water was injected.

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

GRANITE CANYON AREA

MOUNT POSO OIL FIELD

Kern County

LOCATION: See map sheet of Mount Poso Oil Field

TYPE OF TRAP: Faulted homocline; lithofacies variations

ELEVATION: 1,300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Vedder	Road Oil Sales, Inc. "SP" 2	J.J. Chevalier "Southern Pacific" 2	3 27S 28E	MD	50	N.A.	Nov 1936

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Lyle A. Garner & Assoc. "S.P." 3-1	Same	May 1952	3 27S 28E	MD	2,226	Granite	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Vedder	1,390	30	early Miocene	Vedder	15	10	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
3,808	0	20,675	80	10	823,450	0	65,780	1949	65	30	130

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: Basement

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation sumps on outcrop of Round Mountain Silt.

REMARKS: A cyclic-steam project was started in 1967 and discontinued after 19,069 bbls. of water in the form of steam were injected. A pilot fire flood project, initiated in 1963, was terminated in 1965.

REFERENCES:

## CALIFORNIA DIVISION OF OIL AND GAS

MOUNT POSO OIL FIELD

DORSEY AREA

Kern County

LOCATION: See map sheet of Mount Poso Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 900 - 1,250

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Vedder	Thomas Oil Co. "Dorsey" 2	R.S. Lytle "Dorsey" 2	26 27S 28E	MD	570	N.A.	Sep 1928

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Emjayco "Glide" 15-1	Harry H. Magee, Opr. "Glide" 15-1	Oct 1956	15 27S 28E	MD	2,000	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Vedder	1,500	30	early Miocene	Vedder	16	5	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
86,429	0	1,913,270	375	47	4,676,008	0	204,880	1958	142	76	410

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: Basement

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps on outcrop of Round Mountain Silt; injection wells.

REMARKS: Vedder zone water contains 1.75 ppm boron.

## REFERENCES:



## CALIFORNIA DIVISION OF OIL AND GAS

MOUNT POSO OIL FIELD

DOMINION AREA

Kern County

LOCATION: See map sheet of Mount Poso Oil Field

TYPE OF TRAP: Faulted homocline; lithofacies variations

ELEVATION: 1,100 - 1,350

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vedder	Robert B. Doe, "Dominion" 2	A. Bruce Frame "Dominion" 2	28 26S 28E	MD	435	N.A.	Dec 1928

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Glen H. Mitchell "SP" 1	Same	May 1945	33 26S 28E	MD	2,512	Schist	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vedder	1,560	35	early Miocene	Vedder	15	10	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
107,317	0	4,482,093	675	74	5,735,208	0	197,189	1933	195	128	690

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	177,242	12

SPACING ACT: Does not apply

BASE OF FRESH WATER: No saline waters present

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Injection into the Vedder; evaporation and percolation sumps.

REMARKS:

REFERENCES:

## CALIFORNIA DIVISION OF OIL AND GAS

MOUNT POSO OIL FIELD

BAKER - GROVER AREA

Kern County

LOCATION: See map sheet of Mount Poso Oil Field

TYPE OF TRAP: Faulted regional homocline

ELEVATION: 650 - 1,050

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Vedder	Emjayco "Baker" 1	Baker-Grover Co. "Baker" 1	33 27S 28E	MD	250	N.A.	Jul 1935

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The White Hills Oil Co. No. 1	Ralph R. Whitehill No. 1	Apr 1961	34 27S 28E	MD	2,483	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API") or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Vedder	1,750	25	early Miocene	Vedder	15	190	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
9,991	0	883,158	80	4	3,700,652	0	276,899	1937	49	23	90

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100

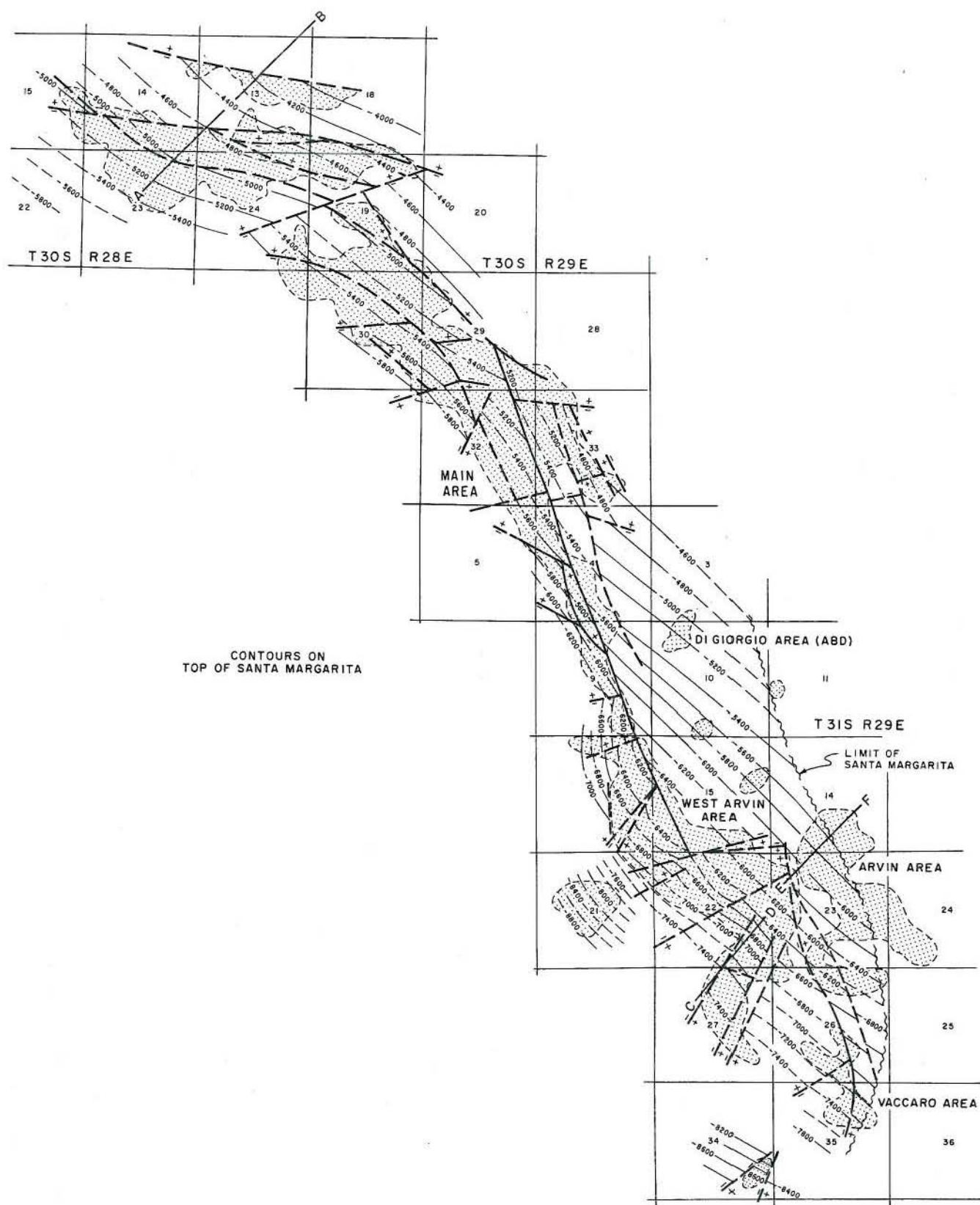
CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps (to be phased out).

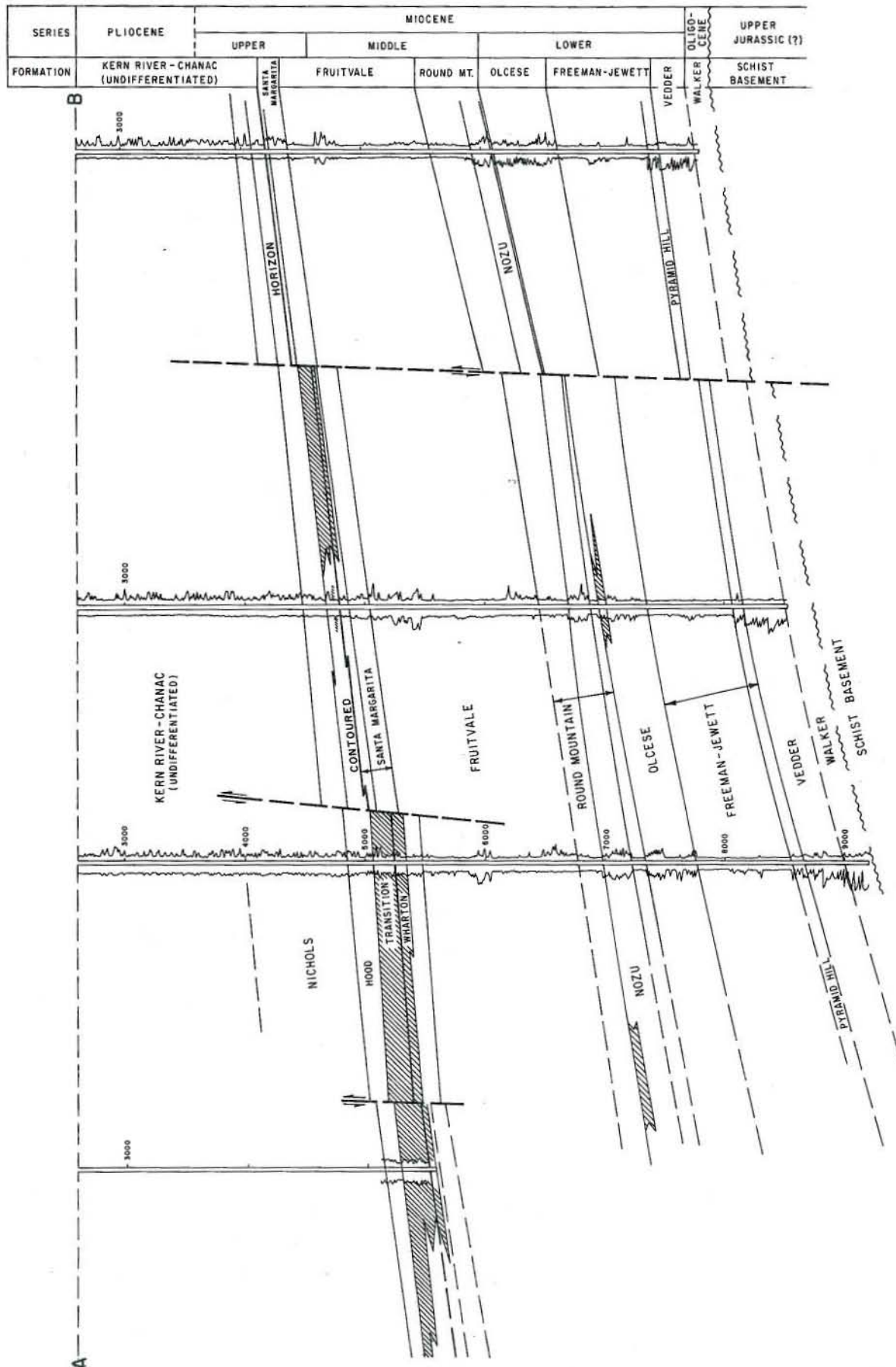
REMARKS:

REFERENCES:

# MOUNTAIN VIEW OIL FIELD

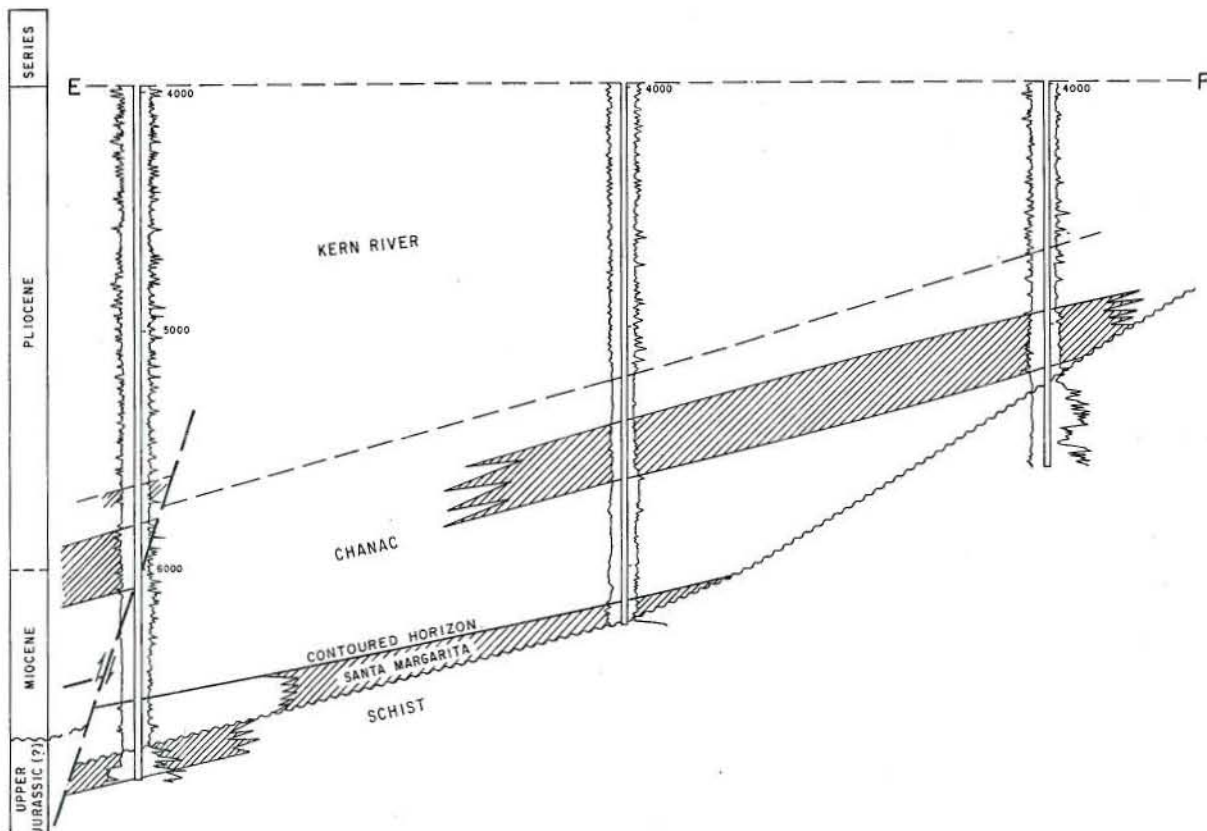
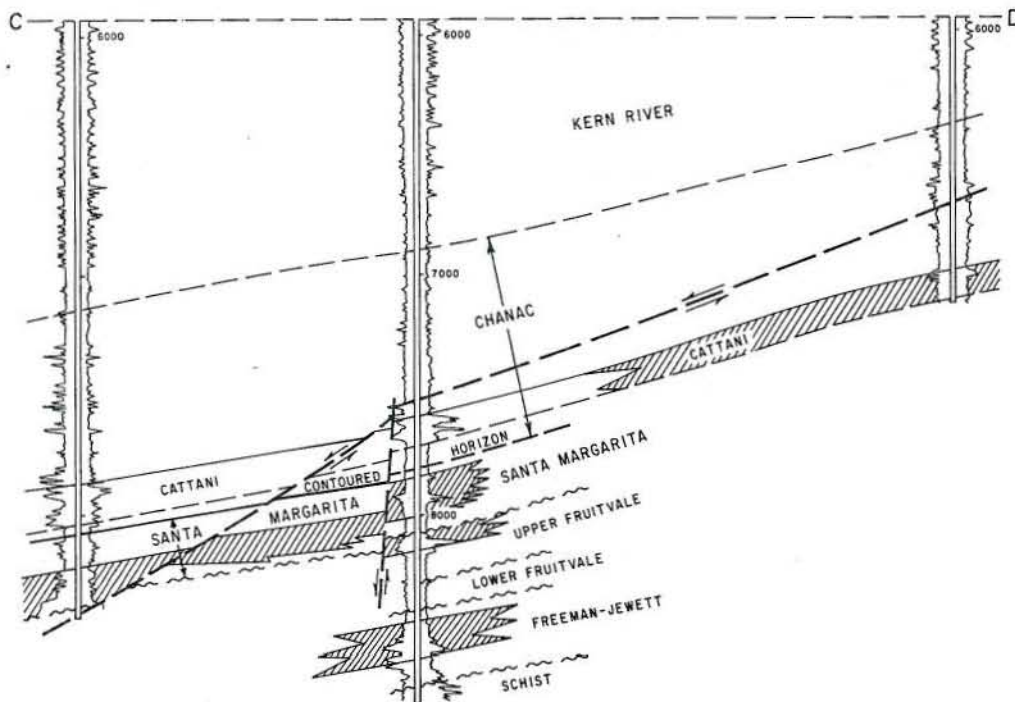


# MOUNTAIN VIEW OIL FIELD





# MOUNTAIN VIEW OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

MOUNTAIN VIEW OIL FIELD

Kern County

LOCATION: 4 miles southeast of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	Chester F. Dolley "Wharton" 1	Hogan Petroleum Co. "Wharton" 1	32 30S 29E	MD	3,200	N.A.	May 1933

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif., Opr. "Stenderup" 55X-21	Union Oil Co. of Calif., Opr. "Union-Hancock Stenderup" 55X-21	Jul 1956	21 31S 29E	MD	12,514	Freeman-Jewett	early Mio

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
714,021	565,013	2,410,708	2,660	188	78,563,063	82,369,452	9,371,651	1936	794	621	4,655

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: The Santa Margarita oil zone has also been referred to as Hogan or Wharton.

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

ARVIN AREA

MOUNTAIN VIEW OIL FIELD

Kern County

LOCATION: See map sheet of Mountain View Oil Field

TYPE OF TRAP: Sand buttressing against older high; lithofacies variations

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Frank Goldman "H.S. Jewett" 2	The Texas Co. "H.S. Jewett" 2	23 31S 29E	MD	42	N.A.	Jan 1953
Santa Margarita	Frank Goldman "Arvin Waterflood Unit" G 1	The Texas Co. "George" 1	23 31S 29E	MD	142	85	Jul 1951
Schist	Frank Goldman "George" 4	The Texas Co. "George" 4	23 31S 29E	MD	35	25	Mar 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Frank Goldman "H.S. Jewett" 3	The Texas Co. "H.S. Jewett" 3	Oct 1953	23 31S 29E	MD	7,133	Basement (schist)	Late Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	5,500	300	e Plio - 1t Mio	Chanac	26 - 33	560	III
Santa Margarita	6,100 - 6,500	100	late Miocene	Santa Margarita	35	N.A.	III
Schist	5,700 - 7,100	100	Lt Jurassic (?)	Schist	29	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
51,073	41,766	114,667	360	13	3,771,245	7,369,954	722,491	1955	74	62	675

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,800

CURRENT CASING PROGRAM: 10 3/4" cem. 700; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: 5,831 bbl. of waste water was injected during 1972 into one disposal well; evaporation and percolation sumps.

REMARKS: A water flood of the Chanac and Santa Margarita zones was started in 1959 and terminated in 1968; cumulative injection totaled 1,600,586 bbls.

REFERENCES: Matthews, J.F. Jr., Arvin and Vaccaro Areas of Mountain View Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 1 (1961).

# CALIFORNIA DIVISION OF OIL AND GAS

MOUNTAIN VIEW OIL FIELD

ARVIN, WEST, AREA

Kern County

LOCATION: See map sheet of Mountain View Oil Field

TYPE OF TRAP: Faulted homocline; lithofacies variations; sand truncation and overlap.

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac - Cattani	Standard Oil Co. of Calif. "Jewett Community Lease No. 2" 1	Standard Oil Co. of Calif. "Jewett Community" 1	16 31S 29E	MD	2,988	1,390	Feb 1939
Cattani	Jim Riley "Houchin" 1	General Petroleum Corp. of Calif. "Houchin" 1	27 31S 29E	MD	123	N.A.	Dec 1937
Houchin	Union Oil Co. of Calif., Opr. "Houchin-Giumarra" 77-27	Union Oil Co. of Calif., Opr. "Union-Hancock Houchin-Giumarra" 77-27	27 31S 29E	MD	85	50	Apr 1957
Stenderup	Union Oil Co. of Calif., Opr. "Stenderup" 55X-21	Union Oil Co. of Calif., Opr. "Union-Hancock Stenderup" 55X-21	21 31S 29E	MD	1,170	800	Oct 1956
Frick	Kenneth Sperry, Opr. "Norris-Frick" 41-16	Norris Oil Co. "Norris Frick" 41-16	16 31S 29E	MD	65	N.A.	Apr 1959
Brite	Union Oil Co. of Calif., Opr. "Shaffer Brite" 77-16	Union Oil Co. of Calif., Opr. "Union-Hancock Shaffer-Brite" 77-16	16 31S 29E	MD	420	265	Dec 1958

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif., Opr. "Stenderup" 55X-21	Union Oil Co. of Calif., Opr. "Union-Hancock Stenderup" 55X-21	Jul 1956	21 31S 29E	MD	12,514	Freeman-Jewett	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac - Cattani	6,100	60	early Pliocene	Chanac	31	100	III
Cattani	7,100	130	early Pliocene	Chanac	30	N.A.	III
Houchin	8,100	150	late Miocene	Santa Margarita	35	N.A.	IV
Stenderup	9,600	200	early Miocene	Fruitvale	28	N.A.	IV
Frick	8,900	120	early Miocene	Olcese	27	N.A.	IV
Brite	8,300	250	early Miocene	Freeman-Jewett	35	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
123,171	122,753	107,281	530	32	9,414,813	13,958,840	769,822	1947	193	157	900

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

CURRENT CASING PROGRAM: 10 3/4" cem. 600 - 1,000; 7" or 5 1/2" combination string landed through zone and cem. through ports above zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: A water flood of the Cattani zone was started in 1957 and terminated in 1962; cumulative injection totals 449,348 bbls.

REFERENCES: Matthews, J.F. Jr., West Arvin Area of Mountain View Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 48, No. 1 (1962).



## CALIFORNIA DIVISION OF OIL AND GAS

DIGIORGIO AREA (Abandoned)

MOUNTAIN VIEW OIL FIELD

Kern County

LOCATION: See map sheet of Mountain View Oil Field

TYPE OF TRAP: Angular unconformity; lithofacies variations.

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita Schist	Reserve Oil & Gas Co. "Earl Fruit Co." 1	Mohawk Petroleum Co. "Earl Fruit Co." 1	10 31S 29E	MD	182	650	Aug 1936
	Terminal Oil Co. "DiGiorgio" 3-1	Same as present	3 31S 29E	MD	26	N.A.	Nov 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "Cal Pride Farms" 1	Same	Apr 1956	15 31S 29E	MD	6,694	Basement (schist)	Late Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santa Margarita Schist	6,000	50	late Miocene	Santa Margarita	33	N.A.	IV
	5,800	100	Lt Jurassic (?)	Schist	26	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	115,769	43,062	15,605	1948	20	9	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000 - 2,400

CURRENT CASING PROGRAM: 10 3/4" cem. 600; 7" combination string landed through zone and cem. through ports above zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The last production from the area was in 1959.

REFERENCES: Miller, R.H., and C.V. Bloom, Mountain View Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 22, No. 4 (1937).

# CALIFORNIA DIVISION OF OIL AND GAS

MOUNTAIN VIEW OIL FIELD

MAIN AREA

Kern County

LOCATION: See map sheet of Mountain View Oil Field

TYPE OF TRAP: Faulted homocline; angular unconformity; lithofacies variations.

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Nichols	Operator name and well number unknown	Operator name and well number unknown	N.A.	MD	N.A.	N.A.	N.A.
Hood	Same as above	Same as above	N.A.	MD	N.A.	N.A.	N.A.
Transition	Same as above	Same as above	N.A.	MD	N.A.	N.A.	N.A.
Wharton	Chester F. Dolley "Wharton" 1	Hogan Petroleum Co. "Wharton" 1	32 30S 29E	MD	3,200	N.A.	May 1933
Nozu	Pyramid Oil Co. "Atlantic Wible" 3	MJM & M Oil Co. "Atlantic Wible" 3	23 30S 28E	MD	385	N.A.	Apr 1953
Olcese	BP Exploration U.S.A. Inc. "Winters" 46	Kern Oil Calif. Limited "Winters" 46	13 30S 28E	MD	49	25	May 1958
Schist	Getty Oil Co. "Pacific Western P.H. Greer" 53	Pacific Western Oil Co. "Pacific Western P.H. Greer" 53	9 31S 29E	MD	244	600	Dec 1947

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Getty Oil Co. "Frick-Hogan" 23-9	Pacific Western Oil Corp. "Frick-Hogan" 23-9	Sep 1955	9 31S 29E	MD	10,619	Walker	Olig - Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Nichols	4,900	300	e Plio-lt Mio	Chanac	17 - 27	30	III
Hood	5,200	100	e Plio-lt Mio	Chanac	25	30	III
Transition	5,400	200	e Plio-lt Mio	Transition	25	30	III
Wharton	5,500	65	late Miocene	Santa Margarita	23	620	III
Nozu	7,300	40	m Miocene	Round Mountain	35	1,150	IV
Olcese	7,000	60	m Miocene	Olcese	32	N.A.	IV
Schist	7,275	75	Lt Jurassic (?)	Schist	45	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
526,725	396,885	2,181,652	1,710	139	64,467,521	60,429,355	9,364,753	1936	483	380	2,880

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1965	1,776,268	4

SPACING ACT: Applies

BASE OF FRESH WATER: 1,150 - 4,800

CURRENT CASING PROGRAM: 10 3/4" cem. 500 - 800; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is used in the water flood project; also evaporation and percolation sumps.

REMARKS: The Wharton zone is also locally known as the Hogan.

REFERENCES: Miller, R.H., and C.V. Bloom, Mountain View Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 22, No. 4 (1937).

Park, W.H., Main Area of Mountain View Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 1 (1966).

# CALIFORNIA DIVISION OF OIL AND GAS

VACCARO AREA

MOUNTAIN VIEW OIL FIELD

Kern County

LOCATION: See map sheet of Mountain View Oil Field

TYPE OF TRAP: Faulted homocline; lithofacies variations; sand buttressing against older high

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Texaco Inc. "Capital-Vaccaro" 1	The Texas Co. "Capital-Vaccaro" 1	36 31S 29E	MD	133	90	Sep 1955
Cattani	Kenneth M. Byrum & Dwight E. Byrum "Arvin" 1	General Petroleum Corp. of Calif. "Arvin" 1	26 31S 29E	MD	44	N.A.	May 1937
Houchin	Ancora-Verde Corp. "Union-Signal-Ancora-Tipton-Stockton" 42-35	Verde Enterprises, Opr. for Ancora Corp. "Union Signal-Ancora-Tipton-Stockton" 42-35	35 31S 29E	MD	133	100	Oct 1959
Derby	Ancora-Verde Corp. "Kovacevich" 63-35	Mariposa Co. "Kovacevich" 63-35	35 31S 29E	MD	100	50	Oct 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Ferguson & Bosworth "Union-Signal Tipton-Stockton" 57-34	Same	Apr 1959	34 31S 29E	MD	11,711	Basement (schist)	Lt Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	7,400	150	e Plio-lt Mio	Chanac	36	N.A.	III
Cattani	7,100 - 7,400	400	e Plio-lt Mio	Chanac	34	N.A.	III
Houchin	8,000 - 9,100	200	late Miocene	Santa Margarita	32	N.A.	IV
Derby	8,400	100	Miocene	Fruitvale	35	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
13,052	3,609	7,108	60	4	793,715	568,241	65,177	1949	24	13	130

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: 2,900

CURRENT CASING PROGRAM: 10 3/4" cem. 700 - 900; 5 1/2" combination string landed through zone and cem. through ports above zone and across base of fresh-water sands.

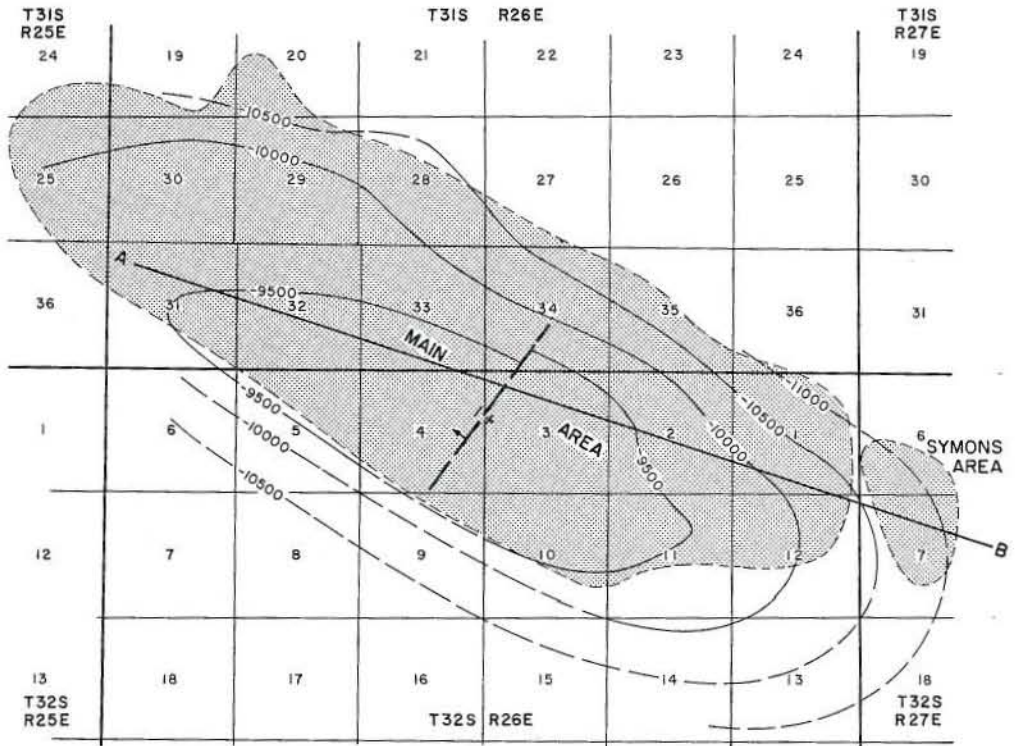
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

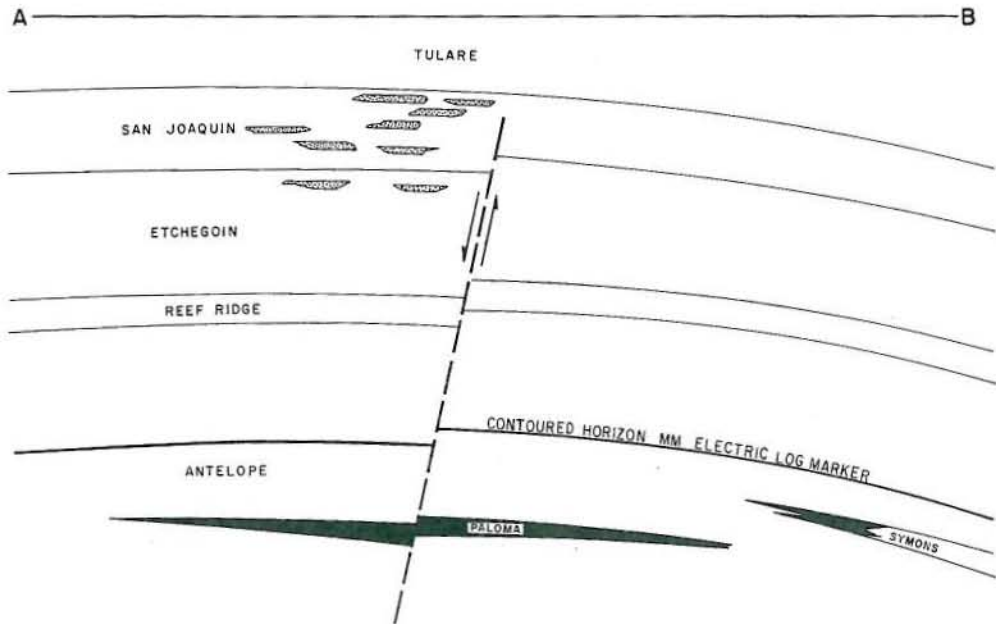
REFERENCES: Matthews, J.F. Jr., Arvin and Vaccaro Areas of Mountain View Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 1 (1961).

# PALOMA OIL FIELD

SERIES	FORMATION	MEMBER AND ZONE	TYPICAL ELECTRIC LOG
PLEISTOCENE	TULARE		
PLOCENE	SAN JOAQUIN	2ND MYA	
		3RD MYA	
		4TH MYA	
	ETCHEGOIN	MULINIA	
UPPER MIOCENE	MONTEREY	REEF RIDGE	
		MM ELECTRIC LOG MARKER SYMONS EQUIV	
		ANTELOPE	
MIDDLE MIOCENE	DEVILWATER-GOULD (UNDIFF)	PALOMA	
		MCDONALD	
LOWER MIOCENE	TEMBLOR	MEDIA	
		CARNEROS	
		UPPER SANTOS	



CONTOURS ON MM ELECTRIC LOG MARKER





# CALIFORNIA DIVISION OF OIL AND GAS

PALOMA OIL FIELD

Kern County

LOCATION: 17 miles southwest of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pliocene Gas Sands	Marathon Oil Co. "KCL-N" 1	The Ohio Oil Co. "Kern County Land Co." 1	31 31S 26E	MD	0	9,461	Jul 1934

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp., Opr. "KCL-A" 72-4	The Ohio Oil Co. "KCL-A" 72-4	Oct 1951	4 32S 26E	MD	21,482	Santos	early Mio

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Main Area)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
146,224	1,309,877	124,494	3,970	72	57,932,328	417,910,006	6,084,949	1949	210	176	5,760

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS: Formerly known as Buena Vista Lake Gas Field.

REFERENCES: Kaplow, E.J., Gas Fields of Southern San Joaquin Valley: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 24, No. 1 (1938).  
Peirce, G.G., Paloma Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 35, No. 1 (1949).

# CALIFORNIA DIVISION OF OIL AND GAS

MAIN AREA

PALOMA OIL FIELD

Kern County

LOCATION: See index map of Paloma Oil Field

TYPE OF TRAP: Anticline

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
2nd Mya (Gas) U. Scaletz (Gas) 4th Mya (Gas) 5th Mya (I) (Gas) 5th Mya (J) (Gas) 5th Mya (Gas) R-S Sand (Gas) Sub-Scaletz (Gas) Mulinia (Gas) Paloma (Stevens)	Marathon Oil Co. "KCL-N" 1 *	The Ohio Oil Co. "Kern County Land Co. " 1	31 31S 26E	MD	--	9,461	Jul 1934
	Gulf Oil Corp. "Paloma Unit-3" 54	Western Gulf Oil Co. "KCL-A" 54-3	3 32S 26E	MD	984	10,140	Aug 1939

Remarks: \* Discovery well may not have penetrated all zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp., Opr. "KCL-A" 72-4	The Ohio Oil Co. "KCL-A" 72-4	Oct 1951	4 32S 26E	MD	21,482	Santos	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
2nd Mya (Gas)	4,180	12	Pliocene	San Joaquin	990	N.A.	III
U. Scaletz (Gas)	4,580	20	Pliocene	San Joaquin	990	470	III
4th Mya (Gas)	5,180	25	Pliocene	San Joaquin	980	N.A.	III
5th Mya (I) (Gas)	5,200	5	Pliocene	San Joaquin	990	1,220	III
5th Mya (J) (Gas)	5,210	15	Pliocene	San Joaquin	990	1,220	III
5th Mya (Gas)	5,350	10	Pliocene	San Joaquin	990	1,220	III
R-S Sand (Gas)	5,410	5	Pliocene	San Joaquin	1,015	1,220	III
Sub-Scaletz (Gas)	5,440	10	Pliocene	San Joaquin	1,015	N.A.	III
Mulinia (Gas)	5,520	20	Pliocene	Etchegoin	1,015	N.A.	III
Paloma (Stevens)	11,800	600	late Miocene	Monterey	35 - 55	1,100	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
133,870	1,243,943	124,058	3,790	69	56,921,076	408,618,653	5,131,451	1949	202	169	5,380

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

CURRENT CASING PROGRAM: 11 3/4" cem. 1,200; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Injection wells.

REMARKS: 1972 dry gas production, 165,524 Mcf from 3 wells; cumulative dry gas production 13,815,180 Mcf. Proved acreage is currently 120 and maximum is 390 acres. During the period from 1941 to 1966 a total of 374,599,000 Mcf of gas was injected into a maximum of 5 wells for pressure maintenance.

REFERENCES: Kaplow, E.J., Gas Fields of Southern San Joaquin Valley: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 24, No. 1 (1938).  
Peirce, G.G., Paloma Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 35, No. 1 (1949).

## CALIFORNIA DIVISION OF OIL AND GAS

SYMONS AREA

PALOMA OIL FIELD

Kern County

LOCATION: See Paloma index sheet

TYPE OF TRAP: Permeability variations on an anticlinal nose

ELEVATION: 300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Symons (Stevens) Paloma (Stevens)	Gulf Oil Corp. "Symons Dev. Co." 12-7	Western Gulf Oil Co. "Symons Dev. Co." 12-7	7 32S 27E	MD	37	303	Feb 1942

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "L.A. Club" 67-6	Western Gulf Oil Co. "L.A. Club" 67-6	Jan 1945	6 32S 27E	MD	12,792	Antelope shale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Symons (Stevens)	11,400	100	late Miocene	Monterey	29 - 60	N.A.	IV
Paloma (Stevens)	11,700	35	late Miocene	Monterey	29 - 60	440	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
12,354	65,934	436	180	3	1,011,252	9,291,353	107,999	1947	8	7	380

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

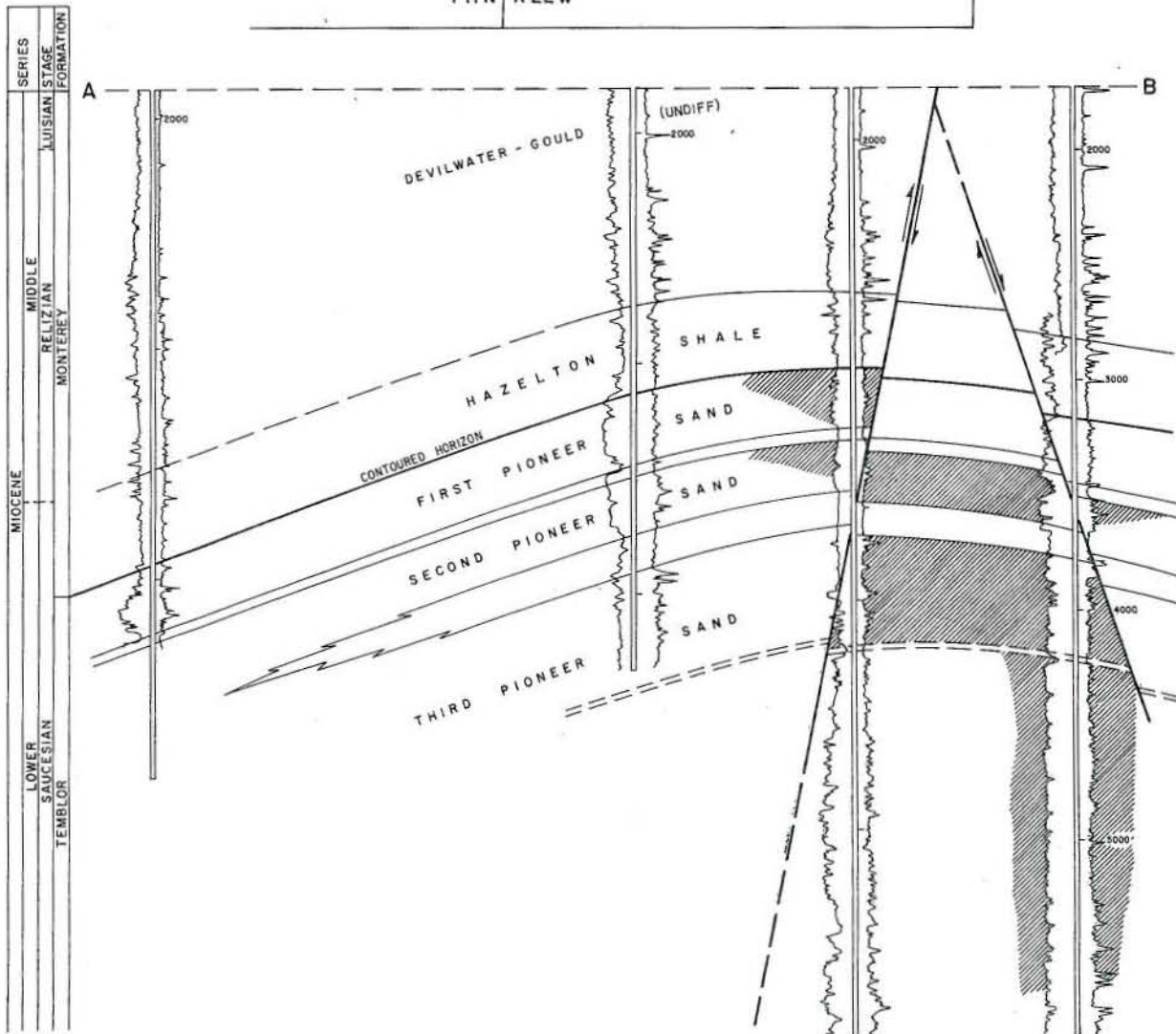
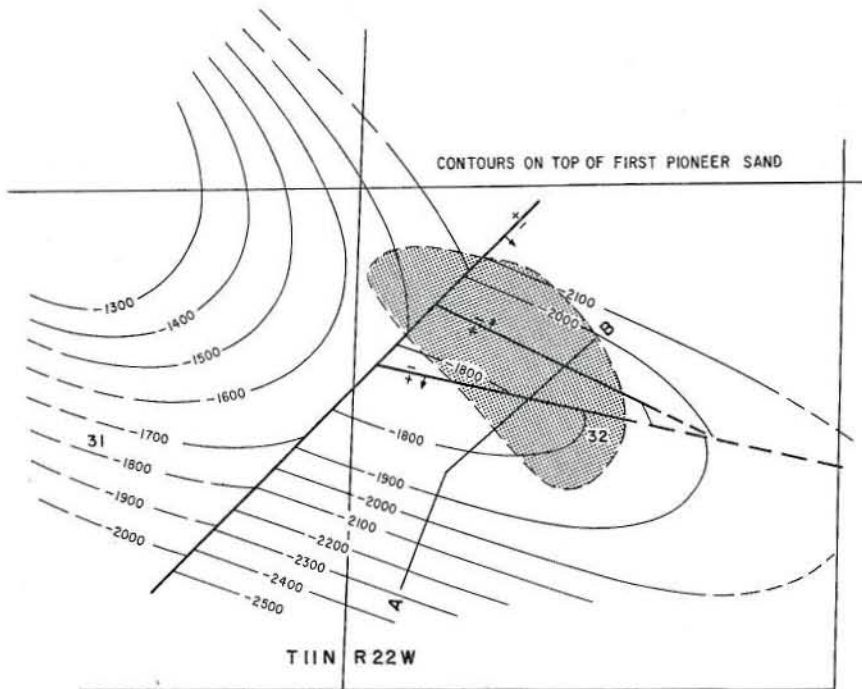
CURRENT CASING PROGRAM: 11 3/4" cem. 1,200; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is hauled by truck to disposal well in Main Area.

REMARKS:

REFERENCES: Peirce, G.G., Paloma Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 35, No. 1 (1949).

## PIONEER OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

PIONEER OIL FIELD

Kern County

LOCATION: 15 miles southeast of Taft

TYPE OF TRAP: Faulted anticlinal nose

ELEVATION: 1,200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pioneer	Standard Oil Co. of Calif. "KCL 44" 34	Same as present	32 11N 22W	SB	281	226	Jul 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	S & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Mar 1959	32 11N 22W	SB	10,017	Temblor	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pioneer	3,500	1,000	early Miocene	Temblor	40	2,090	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
6,207	5,677	29,028	40	2	143,697	225,941	24,382	1960	10	6	100

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 800

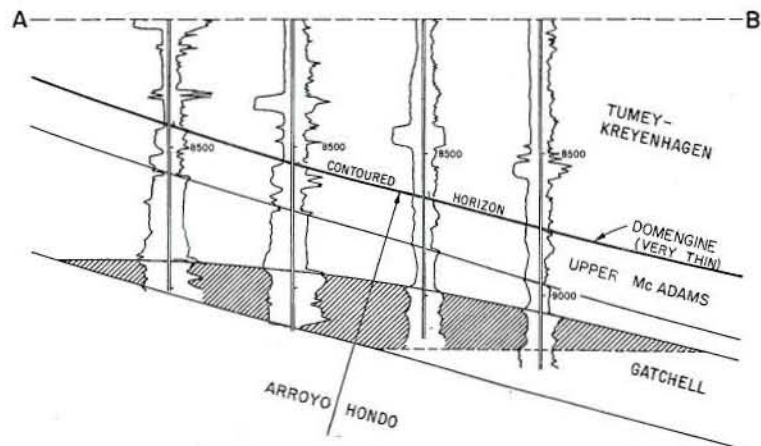
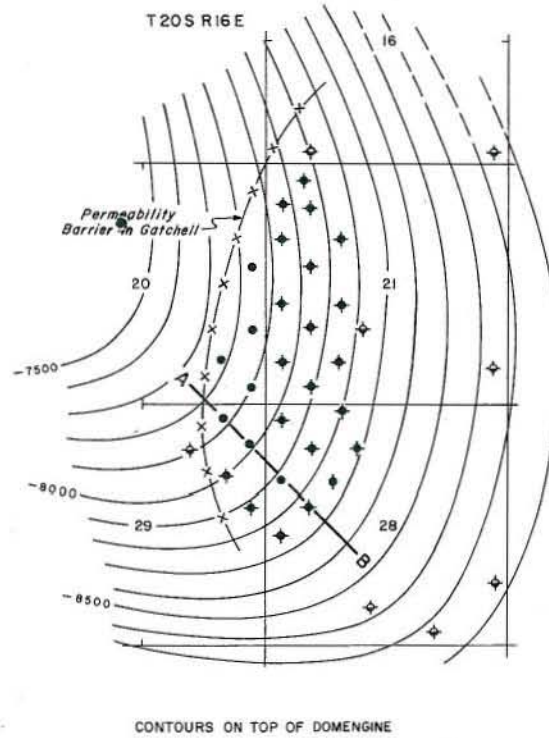
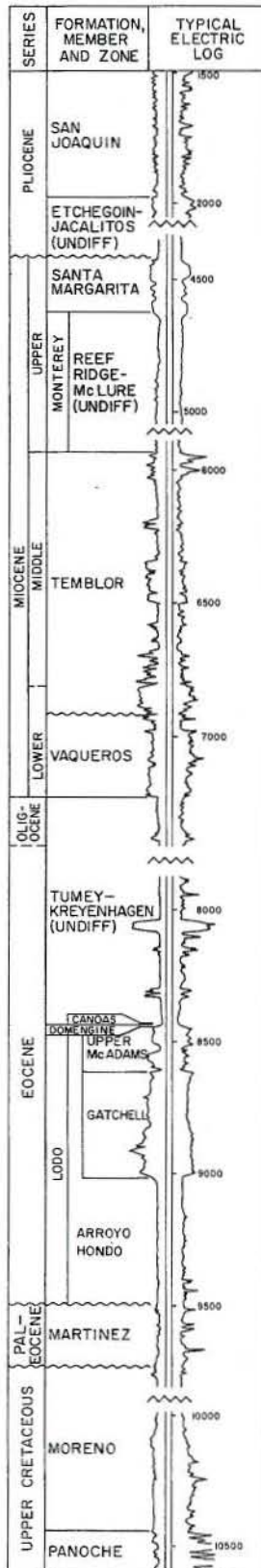
CURRENT CASING PROGRAM: 11 3/4" cem. 400; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: After January 1, 1973, unlined sumps are not permitted.

REMARKS:

REFERENCES: Barnes, J.A., Pioneer Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 2 (1960).

# PLEASANT VALLEY OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

PLEASANT VALLEY OIL FIELD

Fresno County

LOCATION: 6 miles east of Coalinga

TYPE OF TRAP: Permeability barrier lying on the axis of the southeasterly plunging Coalinga anticline.

ELEVATION: 550

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Gatchell	Standard Oil Co. of Calif. "P.V.F." 82-29F	Same	29 20S 16E	MD	812	502	Feb 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif., Opr. "Gatchell" 68-28	Robert S. Lytle, Opr. No. 68	Feb 1942	28 20S 16E	MD	11,586	Moreno	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Gatchell	9,144	120	Eocene	Lodo	26 - 32	377	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
8,764	5,644	16,736	100	2	13,168,307	12,056,291	1,500,250	1947	37	28	500

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,300

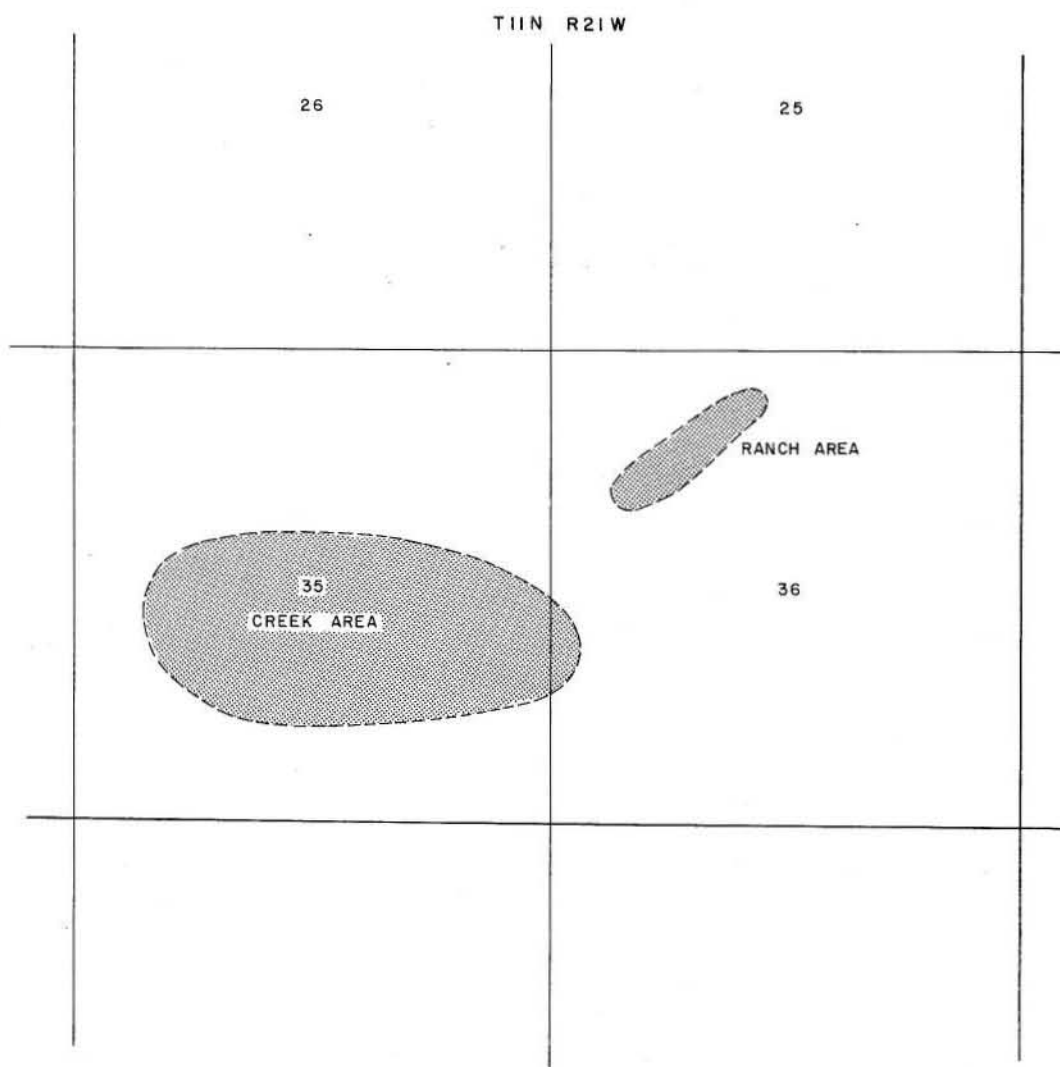
CURRENT CASING PROGRAM: 11 3/4" cem 600; 7" cem 9,144; 5 1/2" liner landed through oil zone.

METHOD OF WASTE DISPOSAL: Water is disposed of by evaporation and seepage from unlined sumps.

REMARKS:

REFERENCES: Loken, K.P., Pleasant Valley Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 1 (1955).

PLEITO OIL FIELD  
Index Map





# CALIFORNIA DIVISION OF OIL AND GAS

PLEITO OIL FIELD

Kern County

LOCATION: 27 miles southeast of Taft

TYPE OF TRAP: See areas

ELEVATION: 2,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	Jim Riley, Opr. "Ten West" 1	Humble Oil & Rfg. Co. "Kern County Land Co. B (34-35)" 1	35 11N 21W	SB	55	34	Aug 1951

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "KCL" 48-25	Same	May 1957	25 11N 21W	SB	15,177	Chanac	Pliocene

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
74,175	17,199	54,358	220	7	2,876,263	1,715,391	248,218	1960	26	21	220

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

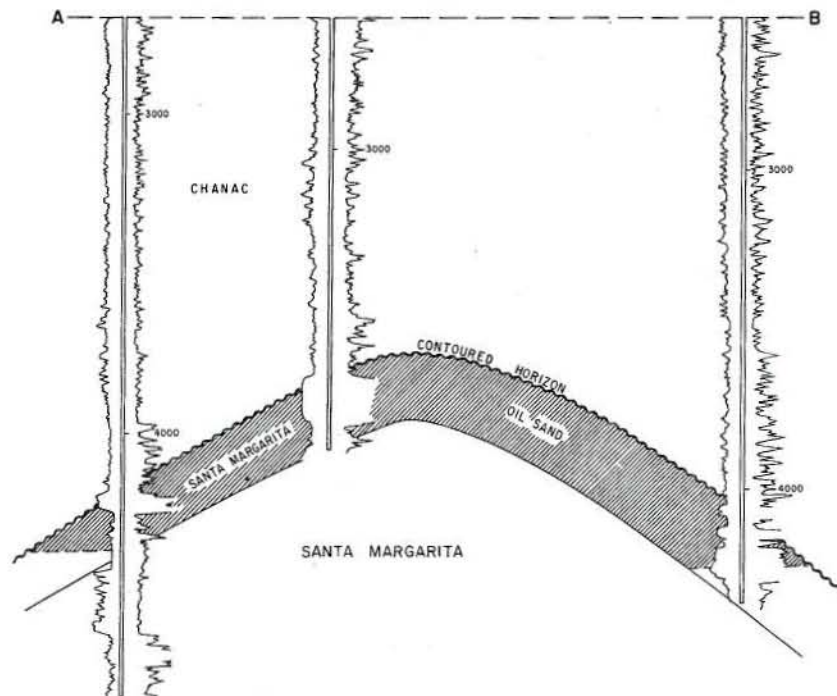
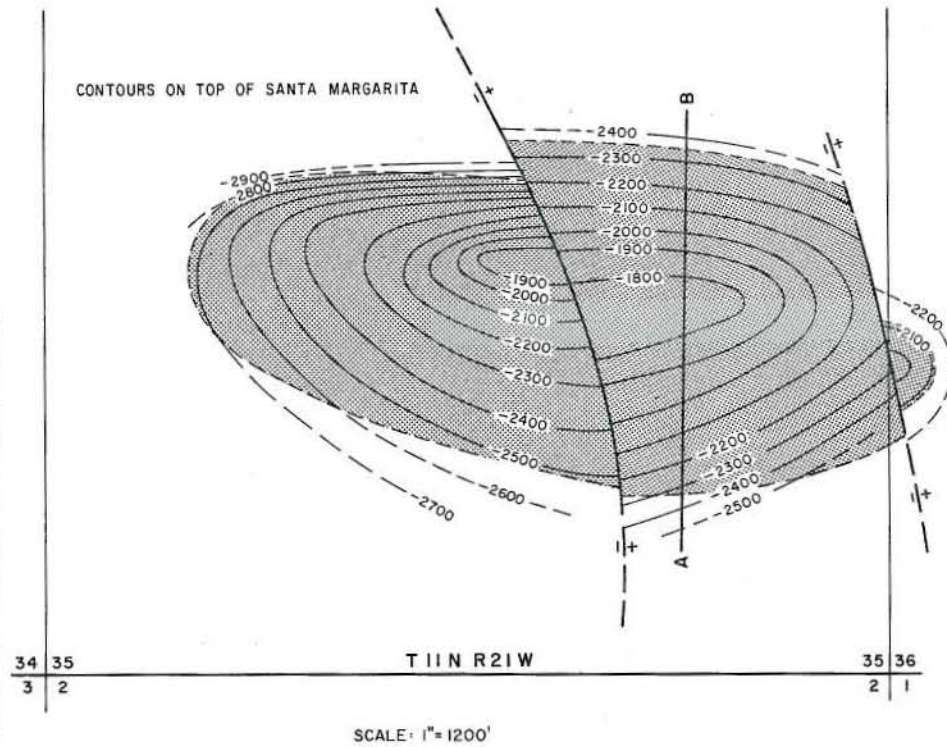
METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.

# PLEITO OIL FIELD Creek Area

SERIES	FORMATION	THICKNESS (FEET)
HOLOCENE	ALLUVIUM	750
PLEISTOCENE	TULARE	1150
PLIOCENE	CHANAC	2300
MIOCENE	SANTA MARGARITA	500
	FRUITVALE	575



## CALIFORNIA DIVISION OF OIL AND GAS

CREEK AREA

PLEITO OIL FIELD

Kern County

LOCATION: See index map of Pleito Oil Field

TYPE OF TRAP: Faulted anticline

ELEVATION: 2,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	Jim Riley, Opr. "Ten West" 1	Humble Oil & Rfg. Co. "Kern County Land Co. B (34-35)" 1	35 11N 21W	SB	55	34	Aug 1951

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Jim Riley, Opr. "Ten West" 16	Humble Oil & Rfg. Co. "Kern County Land Co. B 57-35" 16	Feb 1953	35 11N 21W	SB	14,935	Chanac	Pliocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santa Margarita	4,300	200	late Miocene	Santa Margarita	13 - 20	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
5,988	0	572	170	3	1,401,102	1,137,319	159,073	1953	18	16	170

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

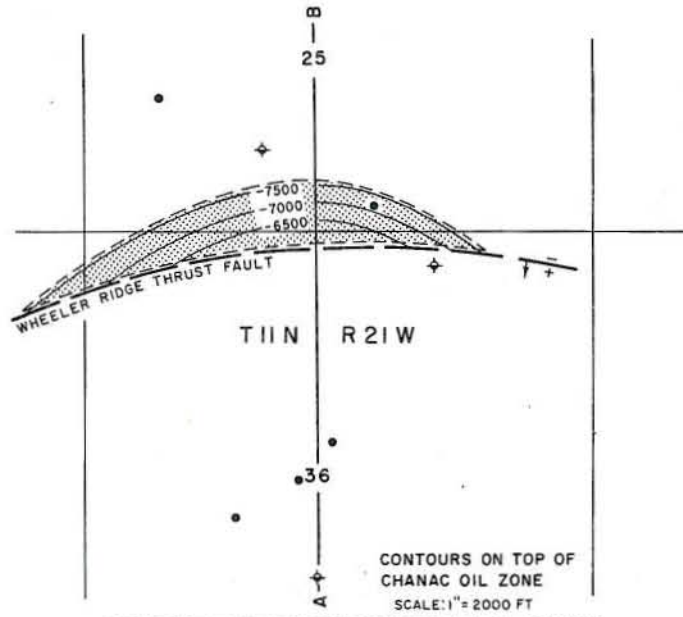
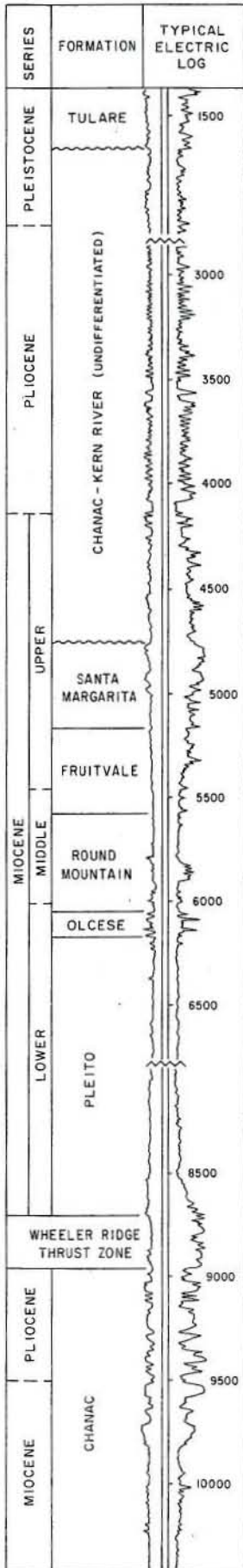
CURRENT CASING PROGRAM: 11 3/4" cem. 350; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

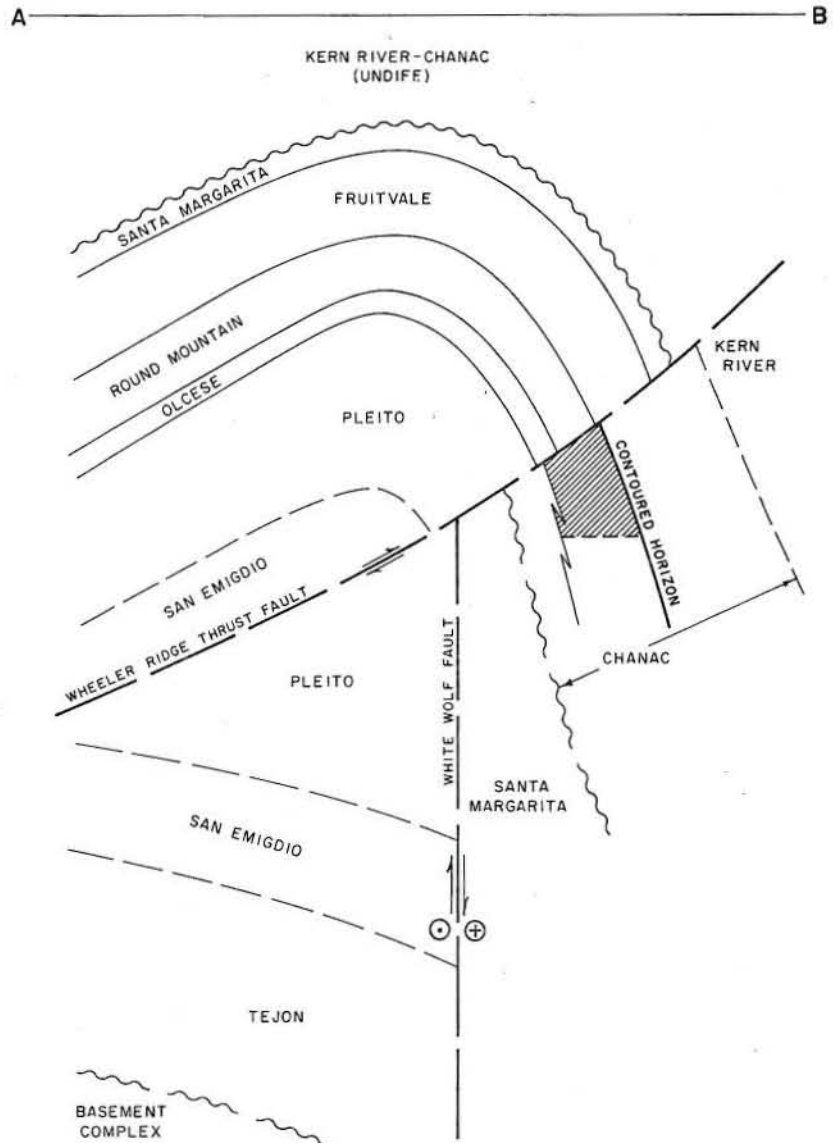
REMARKS: Formerly known as Pleito Creek Oil Field. A water flood was initiated in 1954 and terminated after 298,896 bbls. of water was injected.

REFERENCES: Crowder, R.E., Pleito Creek Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 40, No. 2 (1954).

# PLEITO OIL FIELD Ranch Area



NOTE: PRODUCING WELLS OUTSIDE PRODUCTIVE AREA ARE DIRECTIONAL





# CALIFORNIA DIVISION OF OIL AND GAS

PLEITO OIL FIELD

RANCH AREA

Kern County

LOCATION: See index map of Pleito Oil Field

TYPE OF TRAP: Sand truncated by thrust fault

ELEVATION: 2,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Shell Oil Co. "KCL" 48-25	Same as present	25 11N 21W	SB	105	N.A.	Sep 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	May 1957	25 11N 21W	SB	15,177	Chanac	Pliocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	8,900	300	Pliocene	Chanac	23	520	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
68,187	17,199	53,786	50	4	1,475,161	578,072	157,985	1960	8	5	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

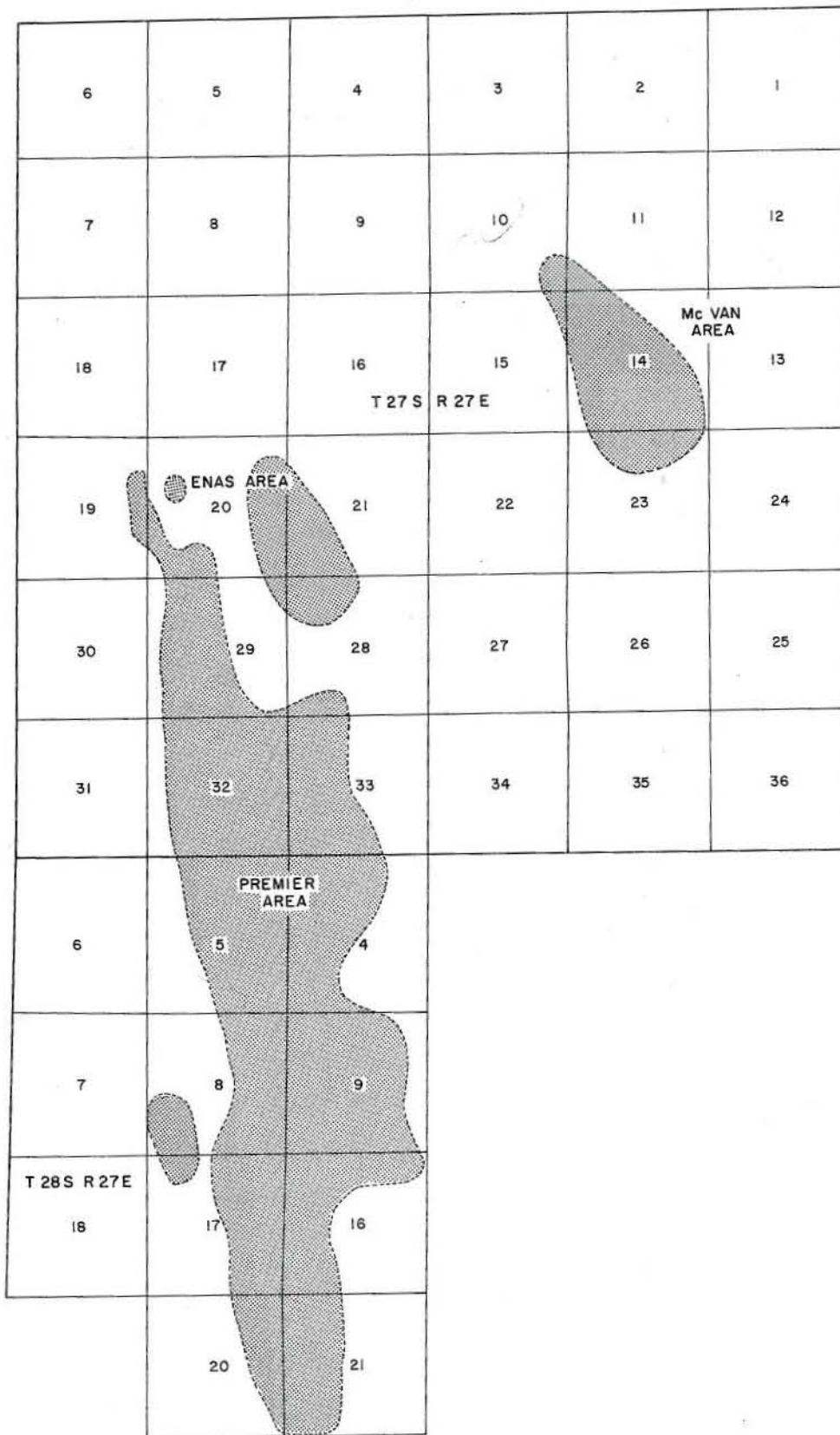
CURRENT CASING PROGRAM: 10 3/4" cem. 850; 5 1/2" combination string cem. through ports above zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

REMARKS:

REFERENCES:

# POSO CREEK Index Map



CALIFORNIA DIVISION OF OIL AND GAS

POSO CREEK OIL FIELD

Kern County

LOCATION: 11 miles northwest of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 550 - 1,000

DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Standard Oil Co. of Calif. No. 2	Standard Oil Co. No. 2	5 28S 27E	MD	90	N.A.	Dec 1920

Remarks:

DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. No. 34	Same	Feb 1945	5 28S 27E	MD	7,187	Basement	Jurassic

PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,671,754	155,069	30,670,538	3,670	498	55,471,568	4,548,370	2,891,023	1964	925	720	3,780

STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

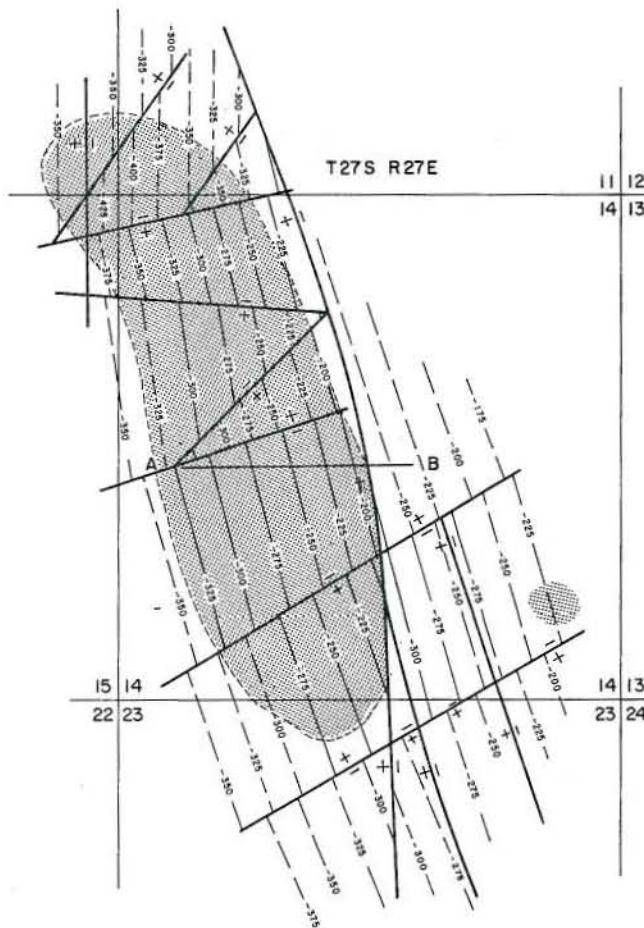
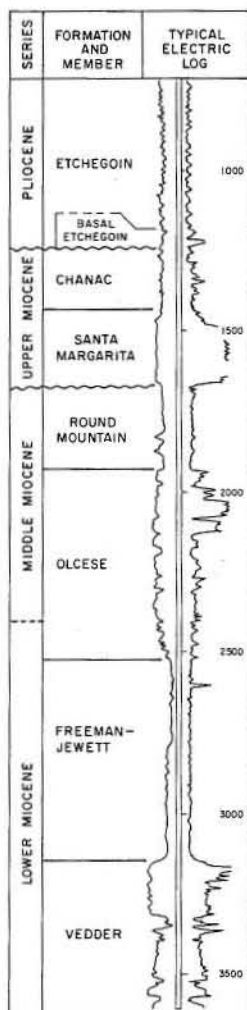
CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

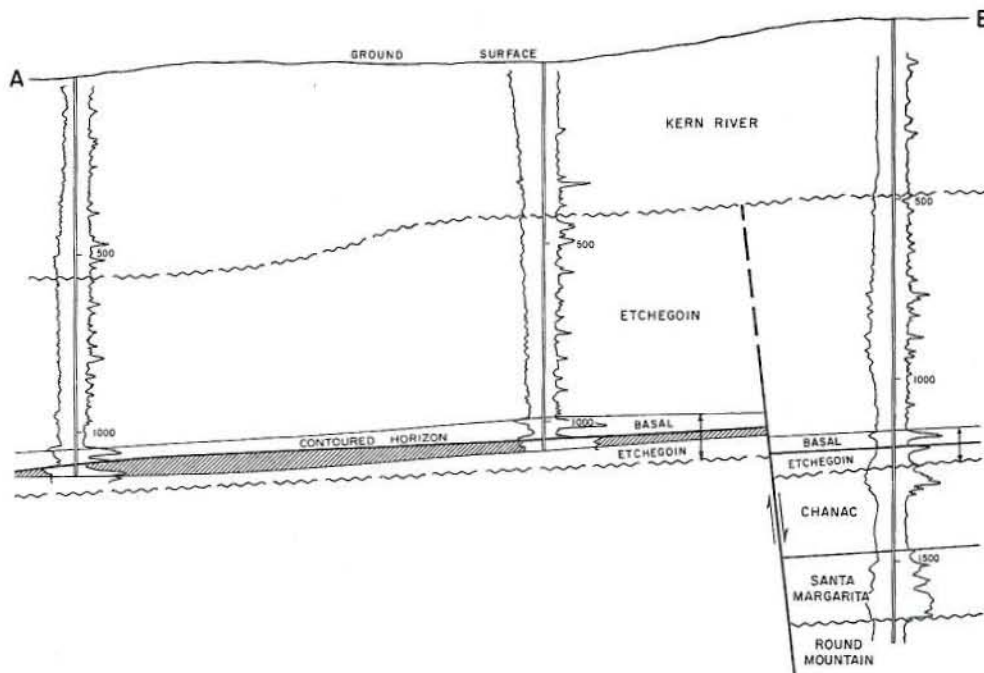
REMARKS:

REFERENCES: See areas.

# POSO CREEK OIL FIELD McVan Area



CONTOURS ON TOP OF PRODUCING SAND





## CALIFORNIA DIVISION OF OIL AND GAS

POSO CREEK OIL FIELD

MCVAN AREA

Kern County

LOCATION: See index map of Poso Creek Oil Field

TYPE OF TRAP: Faulted homocline; lithofacies change

ELEVATION: 750 - 1,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Basal Etchegoin Vedder	Consolidated Resources Inc. "Trico" 2 Miller and York, Trustees "Fitzhugh" (USL) C-8	Vedder Oil Corp., Ltd. "McVan" 2 General Drilling Co. "Fitzhugh" (USL) C-8	14 27S 27E	MD	26	0	Mar 1932
			14 27S 27E	MD	155	0	Nov 1949

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
American Pacific International, Inc. "Claflin" 2	Bargol Oil Co. "Claflin" 2	Mar 1938	10 27S 27E	MD	3,840	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Basal Etchegoin Vedder	1,150	40	Pliocene	Etchegoin	13	5	None
	3,160	30	early Miocene	Vedder	17	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
130,628	0	853,793	270	48	2,534,959	0	301,046	1968	151	70	285

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1964	1,206,374	47

SPACING ACT: Applies

BASE OF FRESH WATER: 1,900

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

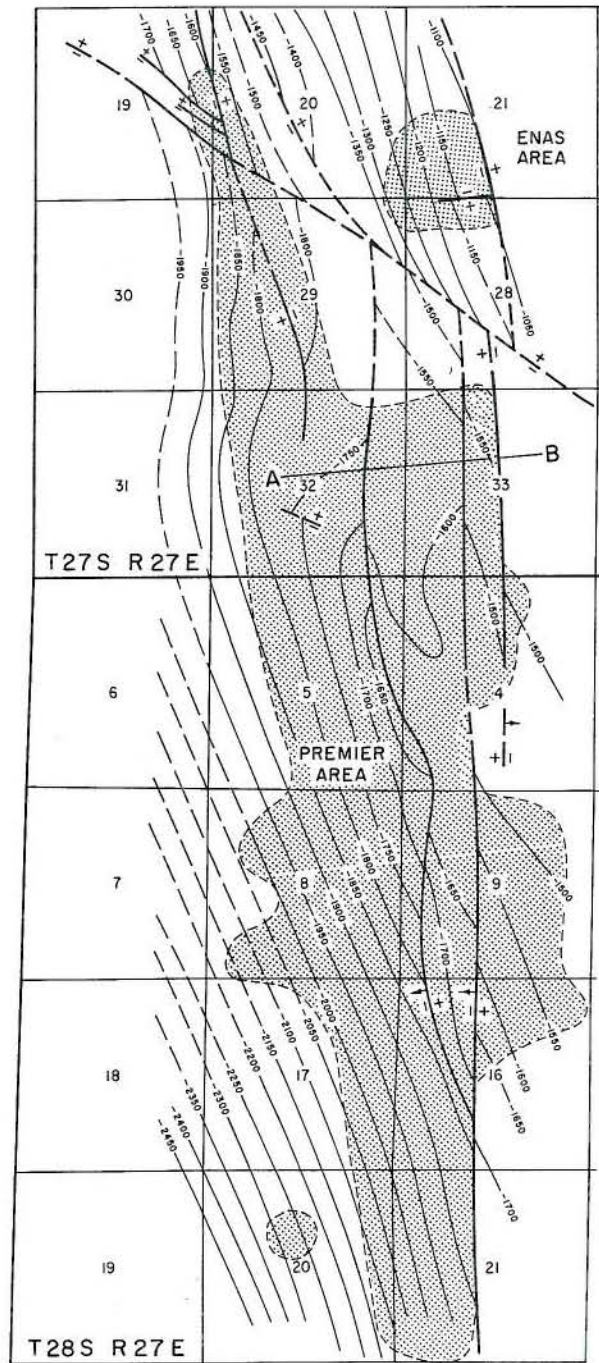
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS: The only well completed in the Vedder zone was abandoned in 1956.

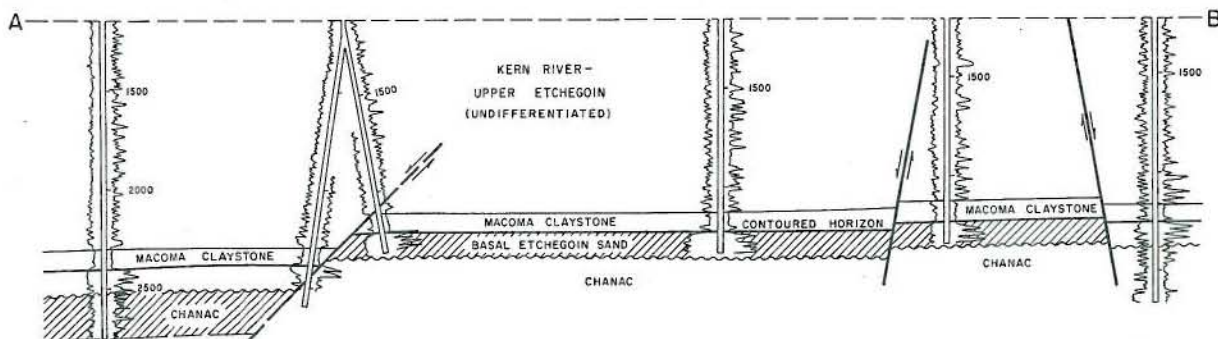
REFERENCES: Matthews, J.F., McVan Area of Poso Creek Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 43, No. 1 (1957).

# POSO CREEK OIL FIELD Enas & Premier Areas

SERIES	STAGE	FORMATION AND MEMBER	TYPICAL ELECTRIC LOG
PLEISTOCENE		KERN RIVER	1000
PLIOCENE		UPPER ETCHEGOIN SAND	
		MACOMA CLAYSTONE	
		BASAL ETCHEGOIN SAND	
		CHANAC	2000
MIOCENE	UPPER	SANTA MARGARITA	
	MIDDLE	FRUITVALE - ROUND MOUNTAIN (UNDIFFERENTIATED)	3000
	RELIZIAN (LUSIAN)	OLCESE	
	SAUCESIAN	FREEMAN-JEWETT	4000
	ZEMORRIAN	PYRAMID HILL GRIT ZONE	5000
		VEDDER	
		VEDDER SILT	6000
EOCENE		FAMOSO	
		WALKER ?	
UPPER JURASSIC (?)		BASEMENT (DIORITE)	



CONTOURS ON BASE OF MACOMA CLAYSTONE



# CALIFORNIA DIVISION OF OIL AND GAS

POSO CREEK OIL FIELD

ENAS AREA

Kern County

LOCATION: See index map of Poso Creek Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 700

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Basal Etchegoin Chanac	Little and Gillstrap "Keating" 1 Tenneco Oil Co. "Agey" 1	Same as present Agey Petroleum Co. "Agey" 1	20 27S 27E	MD	75	0	Nov 1938
			28 27S 27E	MD	25	0	Dec 1929

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
George F. Getty, Inc. "Marland" 1	Same	Mar 1926	20 27S 27E	MD	4,434	Olcese	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Basal Etchegoin Chanac	1,800	90	late Miocene	Etchegoin	12	25 - 60	None
	1,900	150	late Miocene	Chanac	13	25 - 60	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
16,468	0	389,897	130	13	912,473	0	52,834	1965	59	29	190

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,200

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is piped to Kern River Oil Field and utilized in steam-flooding operations.

REMARKS:

REFERENCES: Weddle, J.R., Poso Creek Oil Field, Premier and Enas Areas: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 2 (1959).



# CALIFORNIA DIVISION OF OIL AND GAS

POSO CREEK OIL FIELD

PREMIER AREA

Kern County

LOCATION: See index map of Poso Creek Oil Field

TYPE OF TRAP: Faulted homocline and permeability variations

ELEVATION: 550 - 800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Macoma	Tenneco Oil Co. "Mabry" 5	Golden Bear Oil Co. "Mabry" 5	4 28S 27E	MD	0	960	Nov 1959
Basal Etchegoin	Tesoro Petroleum Corp. "Conoco" 33	Independent Exploration Co. "Conoco" 33	33 27S 27E	MD	125	0	Jun 1944
Chanac	Standard Oil Co. of Calif. No. 2	Standard Oil Co. No. 2	5 28S 27E	MD	90	0	Dec 1920
Kelly 2	Bender Oil Operations "Kelly" 2	Same as present	20 28S 27E	MD	130	0	Jun 1946

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. No. 34	Same	Feb 1945	5 28S 27E	MD	7,187	Basement	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Macoma	2,350	7	Pliocene	Etchegoin	N.A.	20	None
Basal Etchegoin	2,400	100	Pliocene	Etchegoin	11 - 13	20	None
Chanac	2,500	250	late Miocene	Chanac	11 - 13	25	None
Kelly 2	3,100	40	late Miocene	Santa Margarita	15	30	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,524,658	155,069	29,426,848	3,270	437	52,024,136	4,548,370	2,810,249	1964	715	621	3,305

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1965	3,238,262	193

SPACING ACT: Does not apply

BASE OF FRESH WATER: 1,600 - 2,000

CURRENT CASING PROGRAM: 8 5/8" cem. above zone and across base of fresh-water sands; 6 5/8" liner landed through zone.

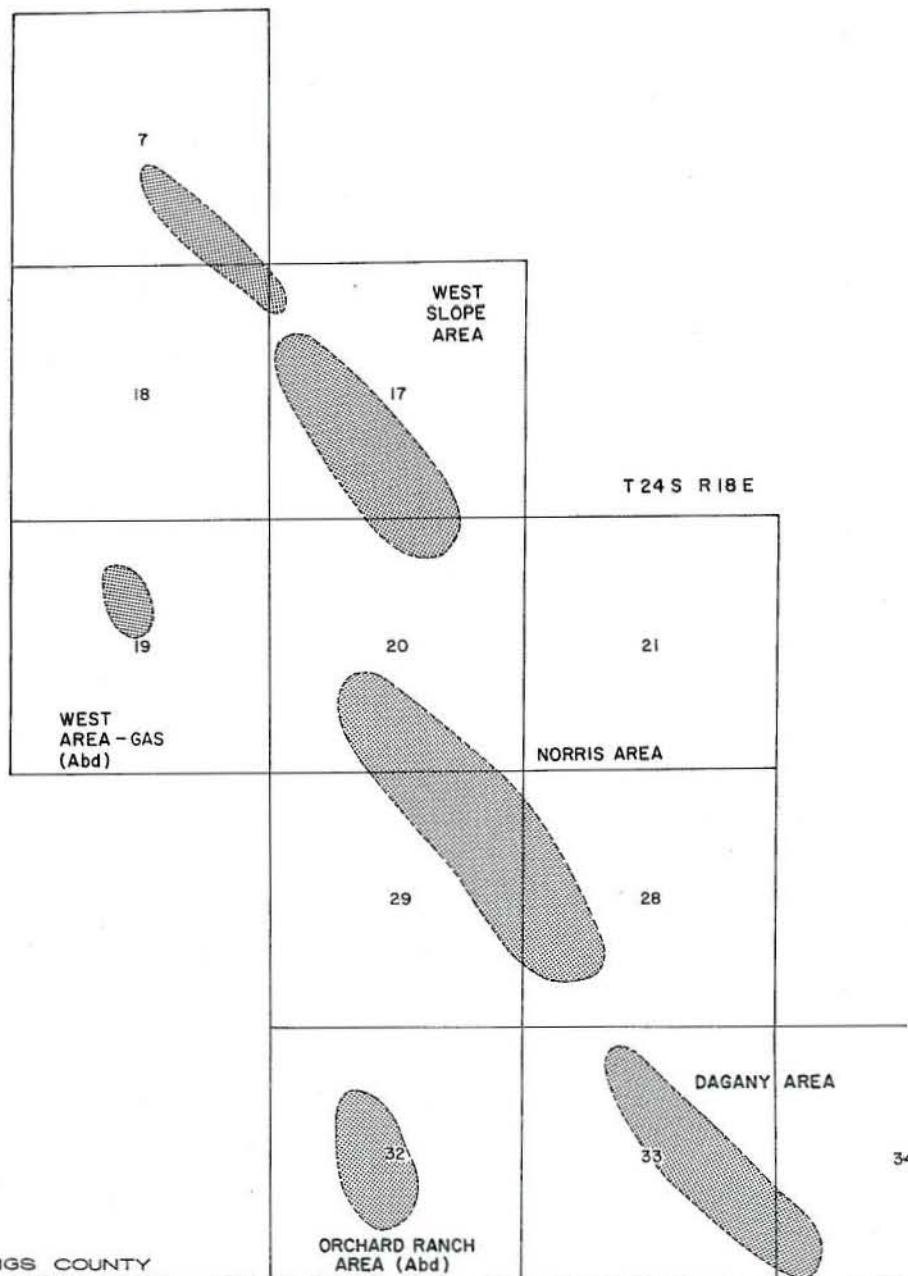
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps; large scale subsurface injection projects commenced in latter part of 1972.

REMARKS: Produced water contains 0.8 to 3.0 ppm boron. A steam flood project was initiated in the Etchegoin zone in 1970 and terminated after 336,396 bbls. of water (in the form of steam) was injected.

REFERENCES: Weddle, J.R., Poso Creek Oil Field, Premier and Enas Area: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 45, No. 2 (1959).



PYRAMID HILLS OIL FIELD  
Index Map



## CALIFORNIA DIVISION OF OIL AND GAS

PYRAMID HILLS OIL FIELD

Kings County

LOCATION: 28 miles southeast of Coalinga

TYPE OF TRAP: See areas

ELEVATION: 600 - 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Kr	Pacific Oil and Gas Development Corp. "West Slope" 1	Tide Water Associated Oil Co. "West Slope" 1	20 24S 18E	MD	35	0	May 1940

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Ferguson & Bozworth "Meakin" 45	Same	Jun 1957	33 24S 18E	MD	5,940	Moreno	Late Cret

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included-see West Area-Gas)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
114,009	206,230	282,326	490	74	4,691,083	5,895,092	239,486	1958	181	106	585

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: See areas

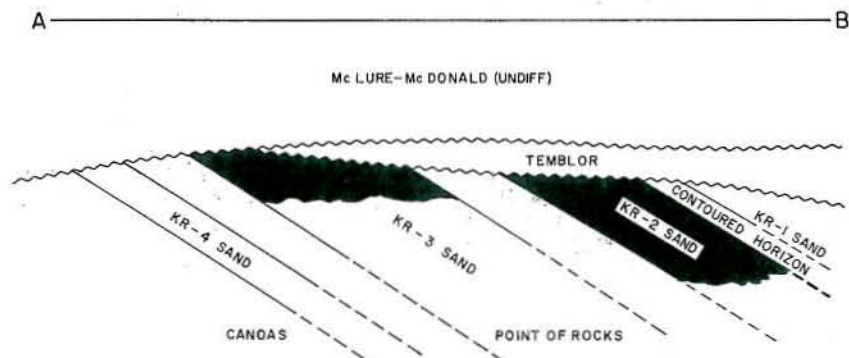
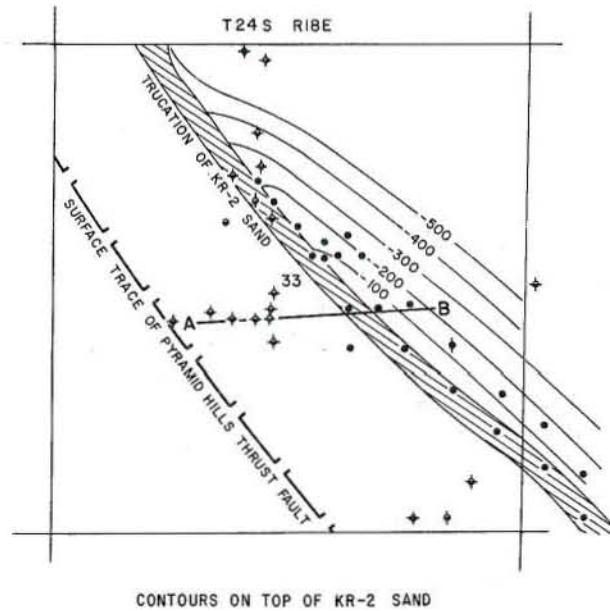
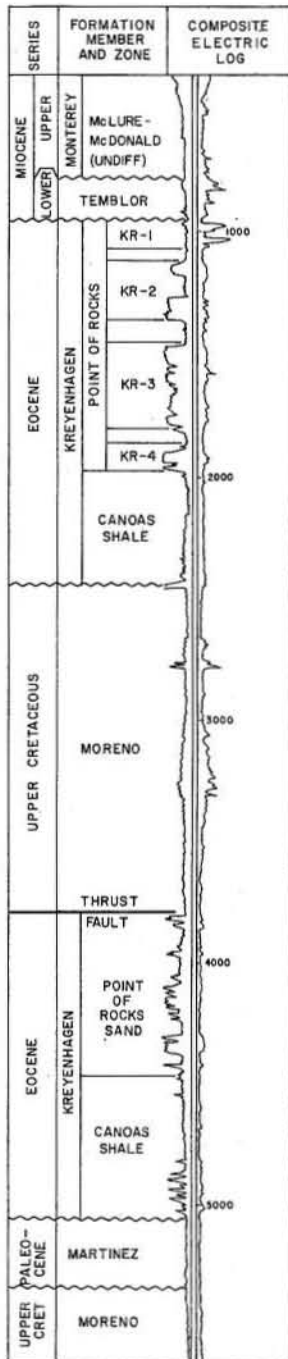
CURRENT CASING PROGRAM: See areas

METHOD OF WASTE DISPOSAL: See areas

REMARKS:

REFERENCES: See areas

# **PYRAMID HILLS OIL FIELD** **Dagany Area**



# CALIFORNIA DIVISION OF OIL AND GAS

PYRAMID HILLS OIL FIELD

DAGANY AREA

Kings County

LOCATION: See index map of Pyramid Hills Oil Field

TYPE OF TRAP: Truncation of Eocene sands bounded by unconformity.

ELEVATION: 650

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Kr	Mobil Oil Corp. "Dagany" 1	Caminol Co. "Dagany" 1	33 24S 18E	MD	75	N.A.	Feb 1954
Eocene (Canoas)	Mobil Oil Corp. "Norris-Orchard" 41B-33	Franco Western Oil Co. "Norris-Orchard" 41B-33	33 24S 18E	MD	80	N.A.	Feb 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Ferguson & Bosworth "Meakin" 45	Same	Jun 1957	33 24S 18E	MD	5,940	Moreno	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Kr	650	125	Eocene	Kreyenhagen	16	290	None
Eocene (Canoas)	2,750	40	Eocene	Kreyenhagen	42 - 47	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
20,851	0	44,744	100	14	1,028,167	24,618	103,436	1955	43	23	120

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 0 - 300

CURRENT CASING PROGRAM: Kr completions: 7" cem 600 - 800; 5 1/2" liner landed through zone. Eocene completions: 9 5/8" cem 400; 5 1/2" cem through zone.

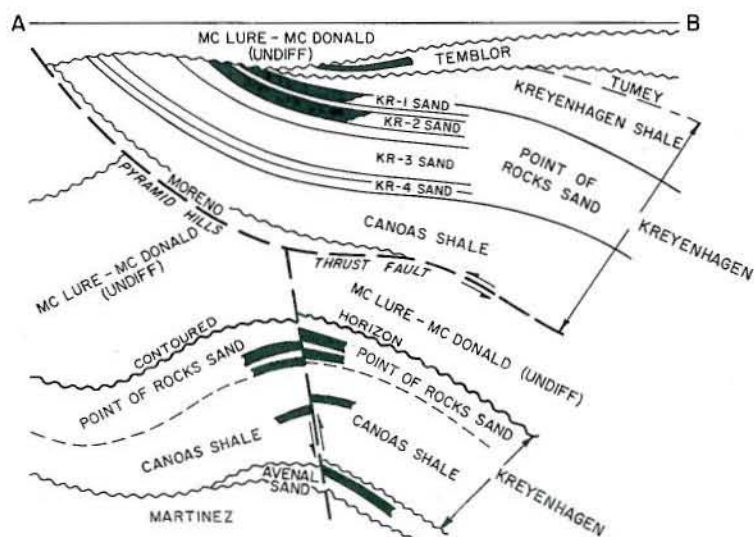
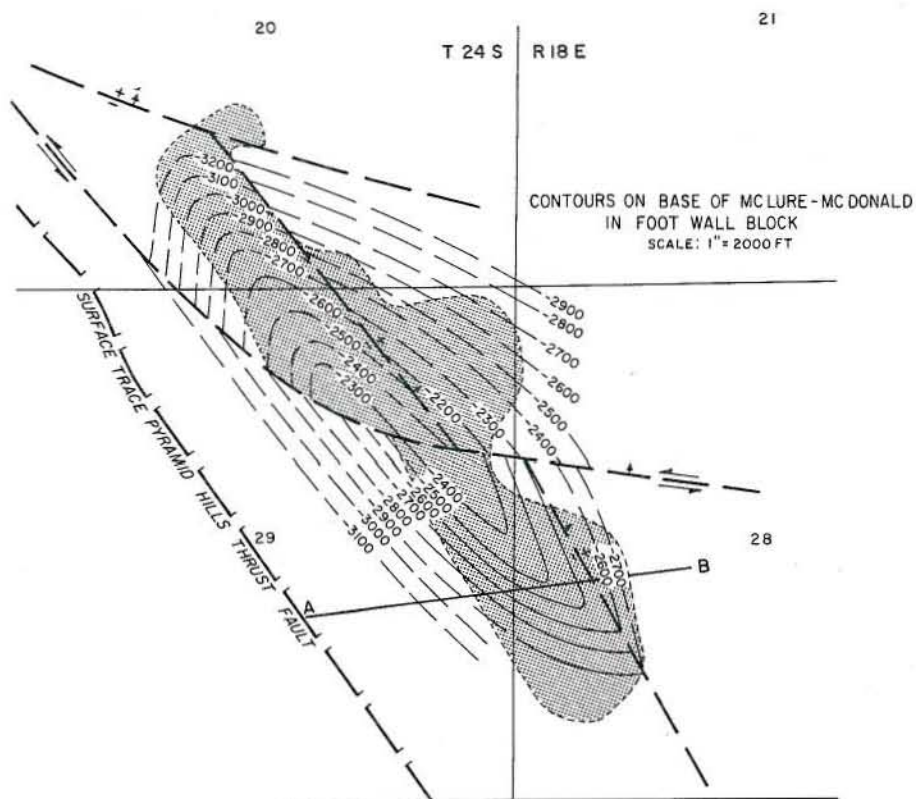
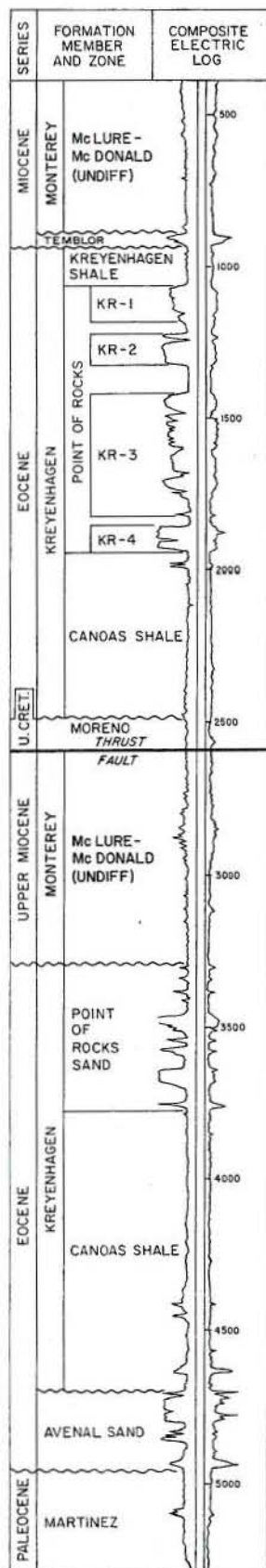
METHOD OF WASTE DISPOSAL: Water is allowed to percolate into sediments (McLure shale - U Miocene) containing saline waters.

REMARKS: Between 1965 and 1967, 165,883 barrels of water was injected into 19 wells for steam-cyclic stimulation of the Kr pool. Between 1963 and 1967 a combustion project was active in the Kr pool.

REFERENCES: Curtin, George, Pyramid Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 2 (1955).



# **PYRAMID HILLS OIL FIELD** Norris Area



## CALIFORNIA DIVISION OF OIL AND GAS

PYRAMID HILLS OIL FIELD

NORRIS AREA

Kings County

LOCATION: See index map of Pyramid Hills Oil Field

TYPE OF TRAP: Truncation bounded by unconformity in Kr and Temblor pools; faulted anticline in Eocene pools.

ELEVATION: 675

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Miocene Kr	Mobil Oil Corp. "Norris-Drilexco-Hand" 115-28	Norris Oil Co. 115-28	28 24S 18E	MD	35	0	Jul 1951
	Mobil Oil Corp. "Norris-Drilexco-Bayliss" 1	Franco Western Oil Co. "Norris-Drilexco-Bayless" 1	29 24S 18E	MD	19	0	Jan 1955
Eocene	Edward Nepple "Orchard" 48-20	Reserve Oil and Gas Co. "Orchard" 48-20	20 24S 18E	MD	310	250	Nov 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Norris-Drilexco-Westslope" 57-20	Franco Western Oil Co. "Norris-Drilexco-Westslope" 57-20	May 1955	20 24S 18E	MD	5,425	Moreno	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Miocene	850	40	early Miocene	Temblor	12	N.A.	None
Kr (Point of Rocks sand)	800	70	Oligocene - Eocene	Kreyenhagen	12 - 19	345	None
Eocene	3,950	100	Oligocene - Eocene	Kreyenhagen	38 - 43	600	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
47,384	193,420	174,006	135	25	1,755,114	5,523,687	179,630	1956	65	36	185

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 0 - 400

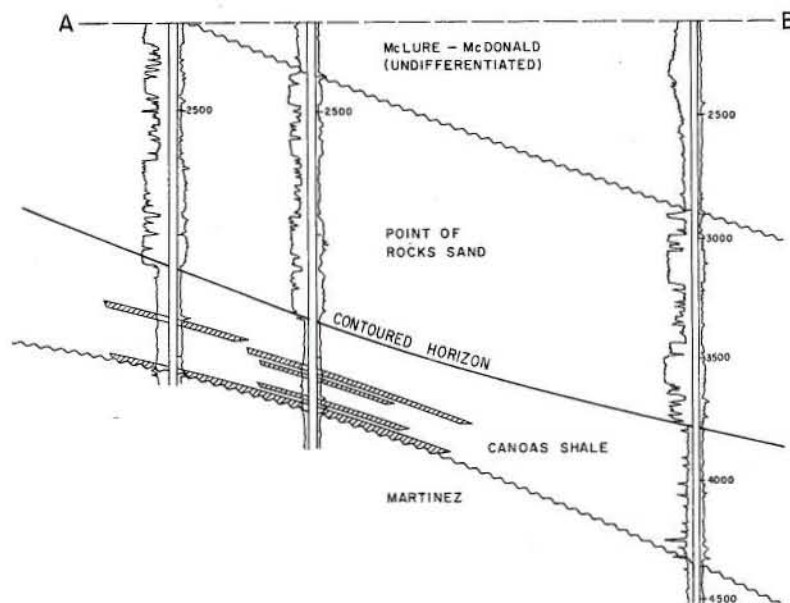
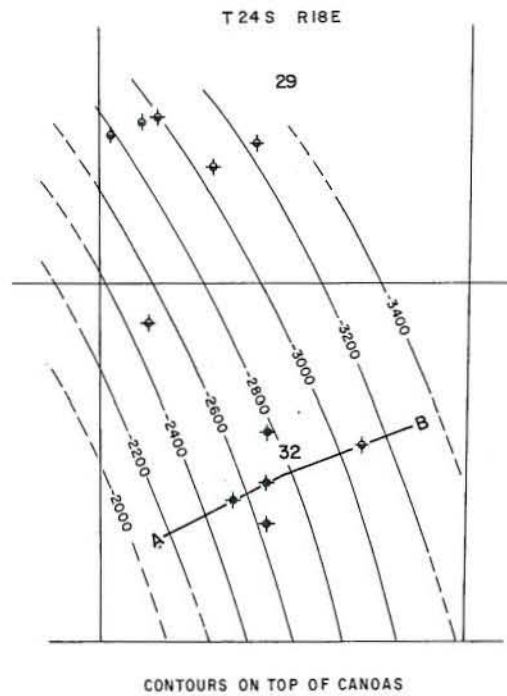
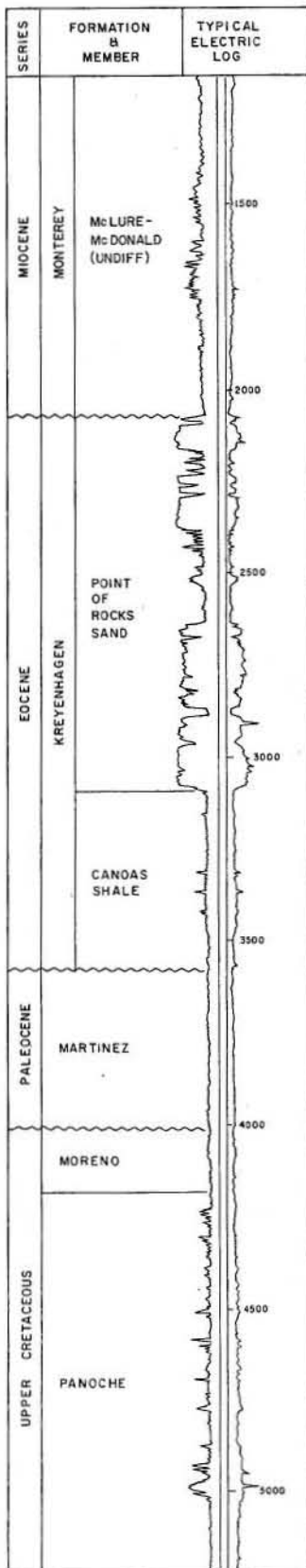
CURRENT CASING PROGRAM: Miocene and Kr completions: 7" cem 750 - 900; 5 1/2" liner landed through zone. Eocene completions: 9 5/8" cem 400; 5 1/2" cem 3,500 - 4,800.

METHOD OF WASTE DISPOSAL: Water is allowed to percolate into sediments (McLure shale - U Miocene) containing saline waters.

REMARKS: Sands included in the Eocene zone are the Point of Rocks (below the thrust fault), Canoas and Avenal. Waters from the Avenal sand have an average salinity of 410.

REFERENCES: Curtin, George, Pyramid Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 2 (1955).

# **PYRAMID HILLS OIL FIELD** **Orchard Ranch Area (Abandoned)**



# CALIFORNIA DIVISION OF OIL AND GAS

ORCHARD RANCH AREA (Abandoned)

PYRAMID HILLS OIL FIELD

Kings County

LOCATION: See index map of Pyramid Hills Oil Field

TYPE OF TRAP: Lenticular sands

ELEVATION: 650

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Canoas	Transco Oil Co. 2-32	Drilling & Production Co. "Orchard" 44-32	32 24S 18E	MD	97	44	Dec 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Transco Oil Co. 2-32	Drilling & Production Co. "Orchard" 44-32	Nov-1959	32 24S 18E	MD	4,960	Martinez	Paleocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water (gr/gal)	Class BOPE required
			Age	Formation			
Canoas	3,650	20	Eocene	Kreyenhagen	47	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	45,453	27,730	10,973	1964	11	4	25

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 550 - 700

CURRENT CASING PROGRAM: 8 5/8" cem 700; 5 1/2" cem 3,800.

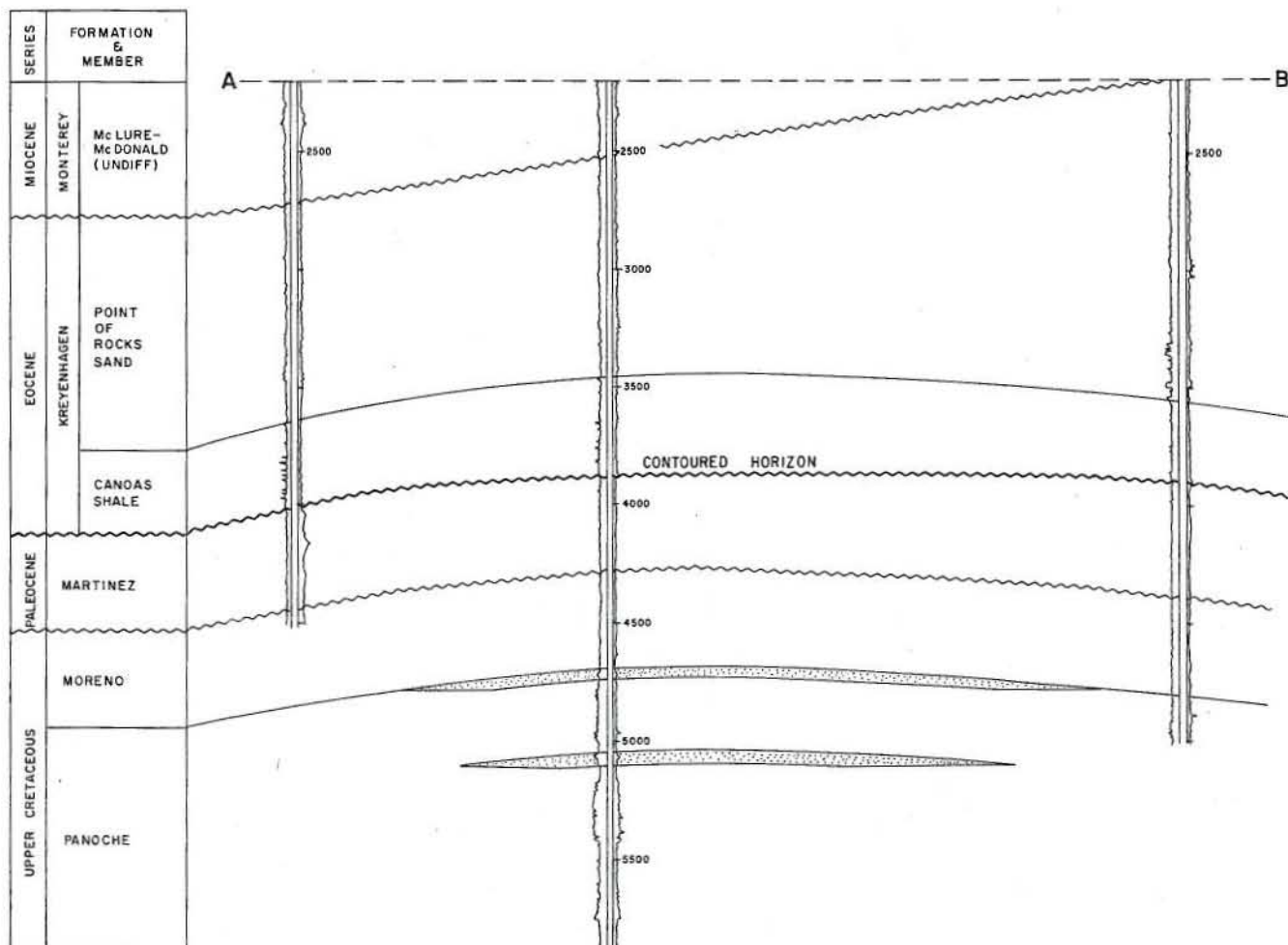
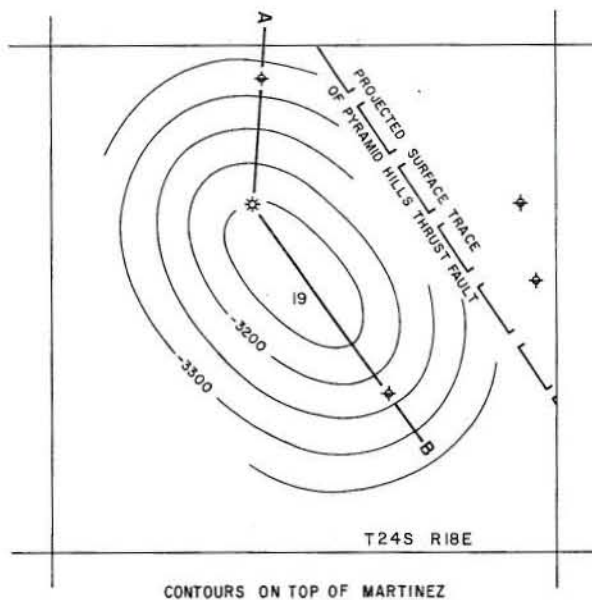
METHOD OF WASTE DISPOSAL:

REMARKS: The area was originally abandoned in 1962, reactivated in 1964 with the completion of Transco Oil Co. Well No. 1-32, Sec. 32, and reabandoned in 1969.

REFERENCES:



# **PYRAMID HILLS OIL FIELD** West Area - Gas (Abandoned)



# CALIFORNIA DIVISION OF OIL AND GAS

PYRAMID HILLS OIL FIELD  
Kings County

WEST AREA - GAS (Abandoned)

LOCATION: See Index Map of Pyramid Hills Oil Field

TYPE OF TRAP: Anticline

ELEVATION: 700

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Cretaceous	D. J. Pickrell, Opr. "Avenal Land" 1	Same	19 24S 18E	MD	850	1392	5/32	Oct 1967

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
D. J. Pickrell, Opr. "Avenal Land" 1	Same	Sep 1967	19 24S 18E	MD	5,860	Panoche	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Cretaceous	5,030	50	Lt. Cretaceous	Panoche	1055	N.A.	2,090	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	8,359	4,846	1967	7	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 300

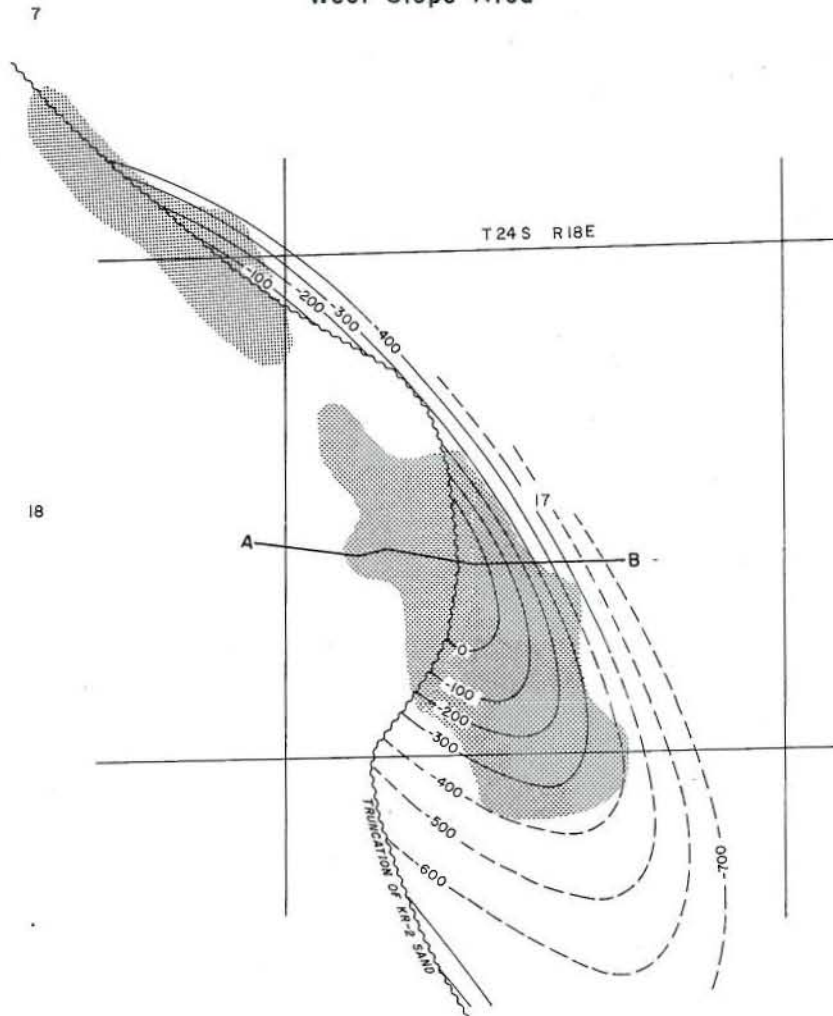
CURRENT CASING PROGRAM: 9 5/8" cem 500; 5 1/2" cem 5,250.

METHOD OF WASTE DISPOSAL:

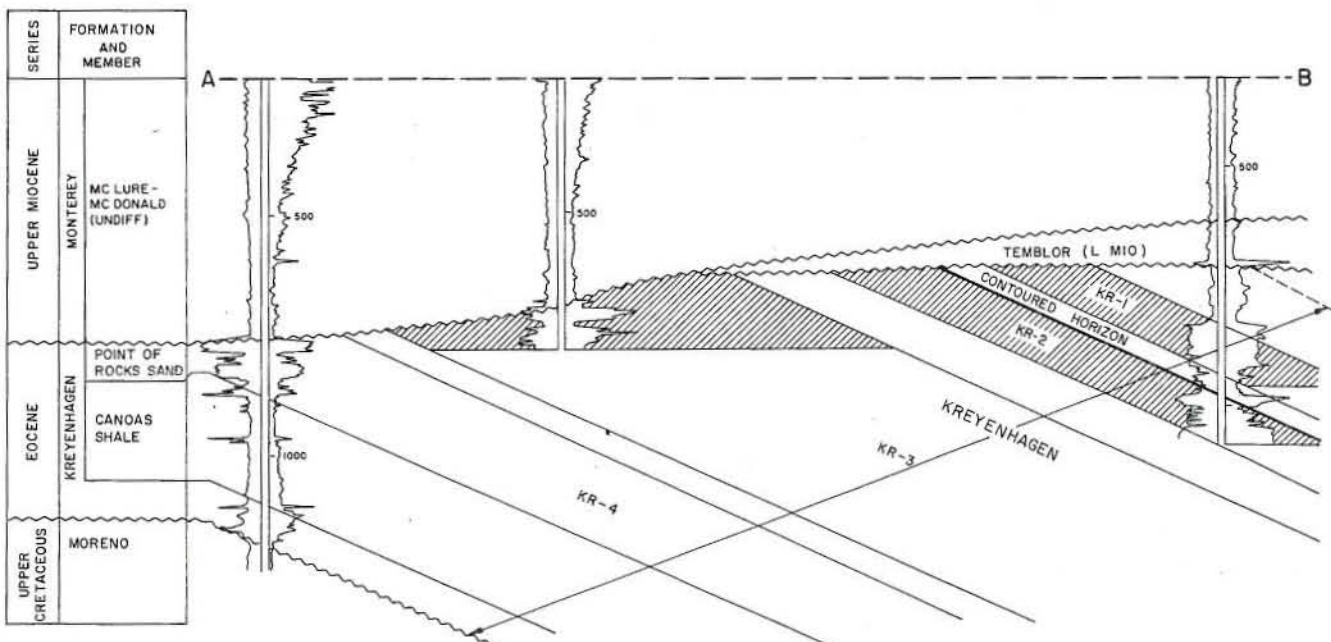
REMARKS: The only producing well was abandoned in 1968.

REFERENCES:

# PYRAMID HILLS OIL FIELD West Slope Area



CONTOURS ON TOP OF KR-2 SAND



# CALIFORNIA DIVISION OF OIL AND GAS

PYRAMID HILLS OIL FIELD

WEST SLOPE AREA

Kings County

LOCATION: See index map of Pyramid Hills Oil Field

TYPE OF TRAP: Truncated zone bounded by unconformity

ELEVATION: 700 - 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Kr	Pacific Oil & Gas Development Corp. "West Slope" 1	Tide Water Associated Oil Co. "West Slope" 1	20 24S 18E	MD	35	0	May 1940

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Pyramid Hills Syndicate No. 1	Same	Aug 1920	20 24S 18E	MD	2,465	Kreyenhagen	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Kr (Point of Rocks sands)	800	120	Eocene	Kreyenhagen	17	315	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
45,774	12,810	63,576	255	35	1,862,349	319,057	135,340	1945	62	43	255

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem 600 - 900; 5 1/2" liner landed through zone.

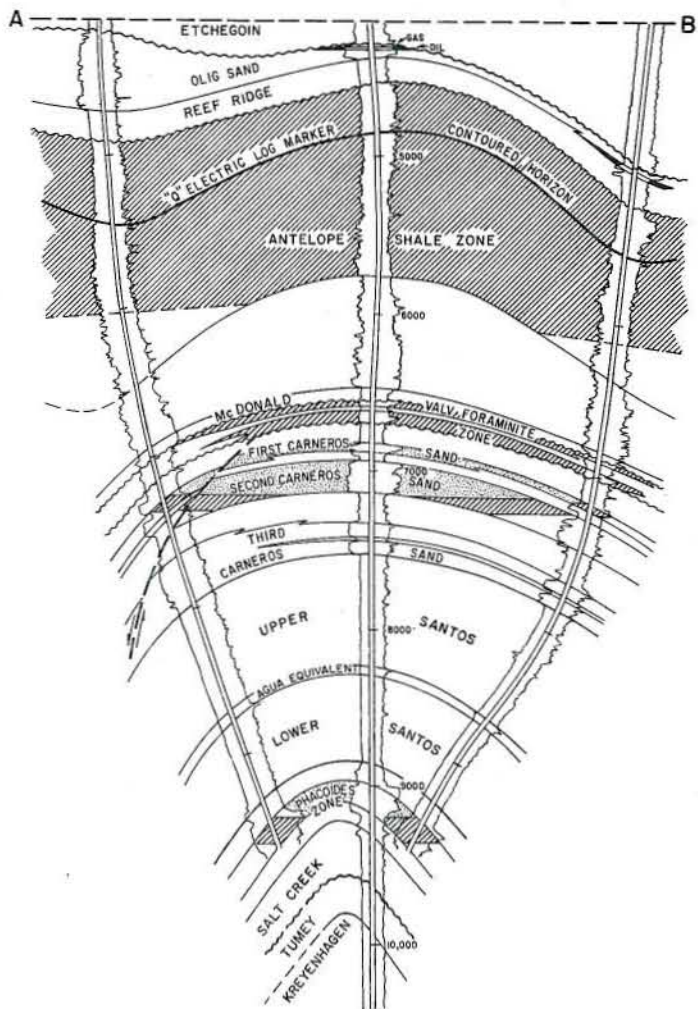
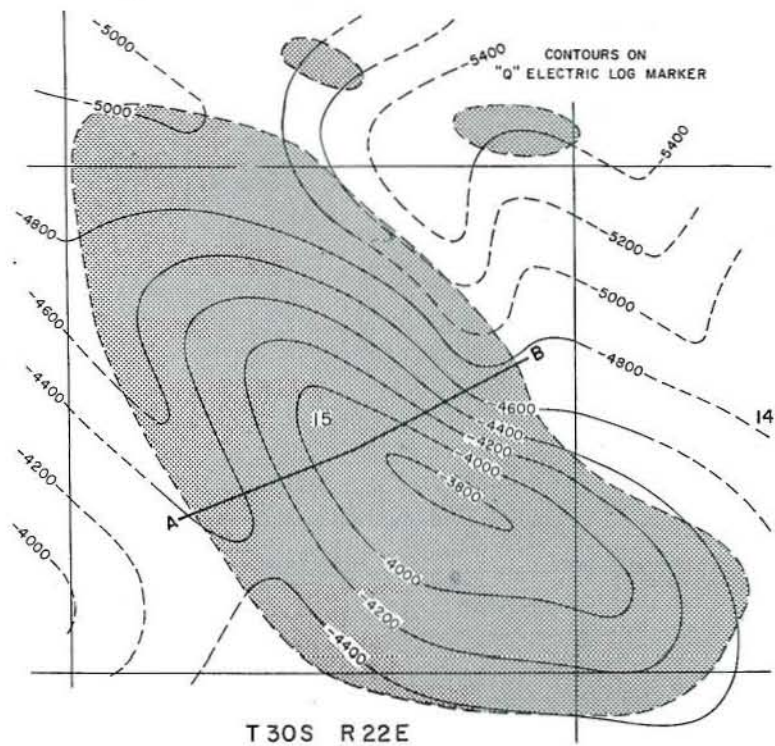
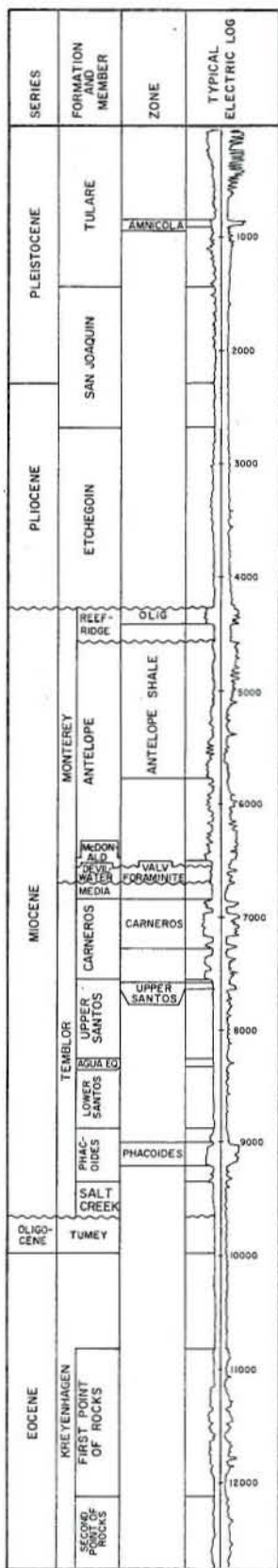
METHOD OF WASTE DISPOSAL: Water is allowed to percolate into sediments (McLure shale - U Miocene) containing saline waters.

REMARKS: During 1966, 1969, and 1970, 50,814 barrels of water was injected into 8 wells for steam-cyclic stimulation.

REFERENCES: Curtin, George, Pyramid Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 2 (1955).



## RAILROAD GAP OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

RAILROAD GAP OIL FIELD

Kern County

LOCATION: 15 miles northwest of Taft

TYPE OF TRAP: Anticline; fractured shale

ELEVATION: 925

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Amnicola	Standard Oil Co. of Calif. No. 1-2	Same as present	15 30S 22E	MD	26	N.A.	May 1965
2nd Mya (Gas)	Standard Oil Co. of Calif. No. 5-6	Same as present	15 30S 22E	MD	0	300	Aug 1960
Olig	Standard Oil Co. of Calif. No. 366	Standard Oil Co. of Calif. No. 66	15 30S 22E	MD	45	1,441	Jun 1964
Antelope Shale	Signal Oil and Gas Co. "Signal-Pike" 1	Same as present	10 30S 22E	MD	45	N.A.	Sep 1948
Valv	Standard Oil Co. of Calif. No. 477	Standard Oil Co. of Calif. No. 77	15 30S 22E	MD	82	254	Apr 1964
Carneros	Standard Oil Co. of Calif. No. 568	Same as present	15 30S 22E	MD	329	183	May 1964
Phacoides	Standard Oil Co. of Calif. No. 555	Same as present	15 30S 22E	MD	170	1,700	Jul 1964

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. No. 555	Standard Oil Co. of Calif. No. 55	Feb 1964	15 30S 22E	MD	12,731	Point of Rocks	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Amnicola	1,100	60	Pleistocene	Tulare	14	225	None
2nd Mya (Gas)	2,300	25	Pleistocene	San Joaquin	1,220	N.A.	None
Olig	4,400	50	late Miocene	Monterey	29	955	II
Antelope Shale	5,000	1,100	late Miocene	Monterey	33	N.A.	III
Valv	6,700	120	m Miocene	Monterey	34	1,830	III
Carneros	7,000	250	early Miocene	Temblor	34	1,530	IV
Upper Santos	8,000	50	early Miocene	Temblor	30	N.A.	IV
Phacoides	9,100	180	early Miocene	Temblor	34	325	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
303,693	5,450,269	1,436,883	480	40	7,591,530	57,494,928	1,472,297	1965	81	71	490

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Cyclic-steam	1965	347,132	10

SPACING ACT: Applies

BASE OF FRESH WATER: None

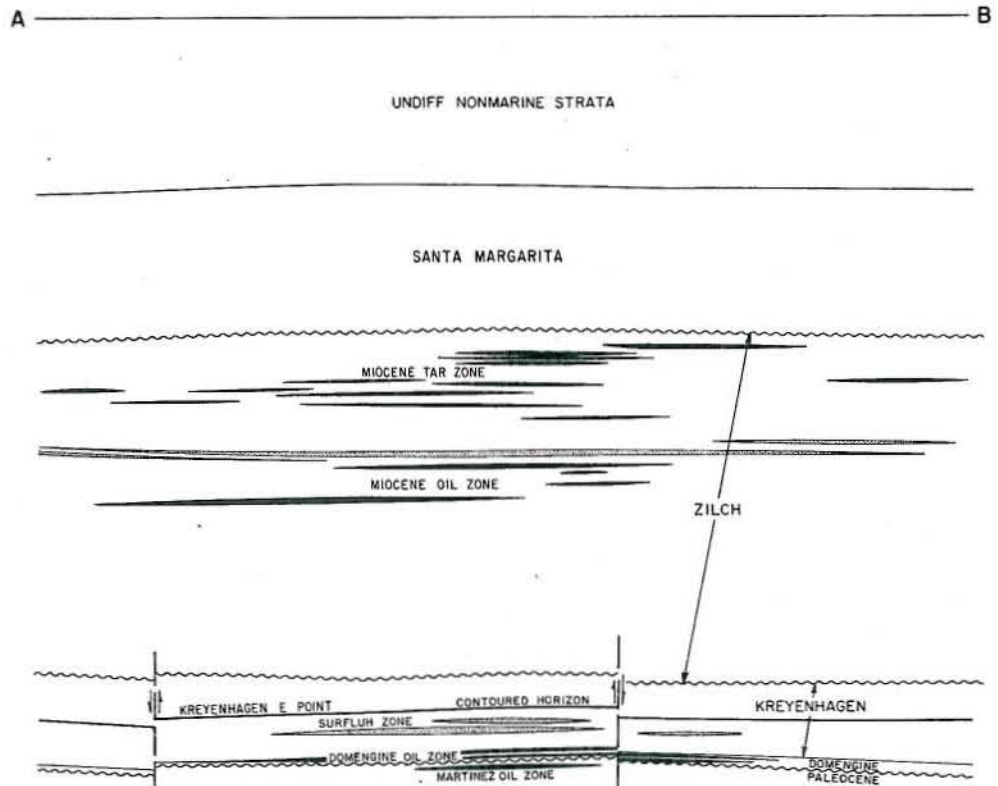
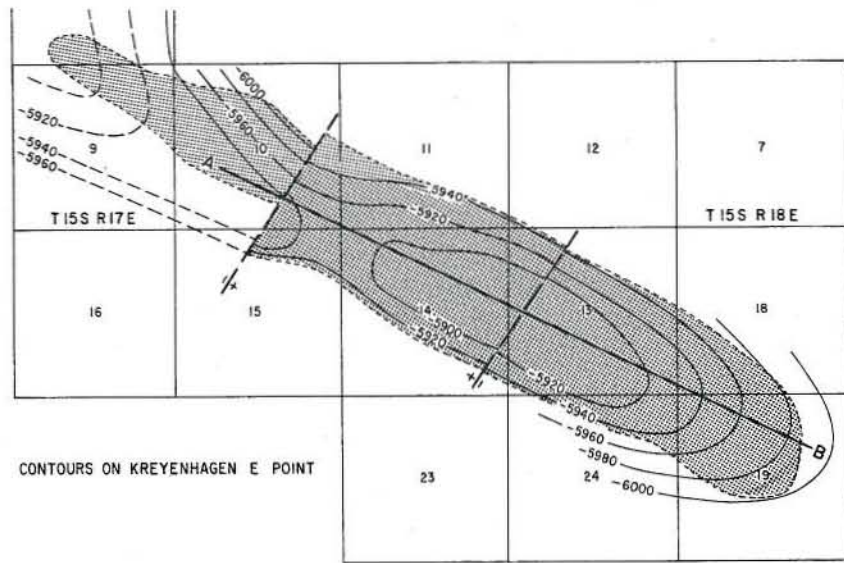
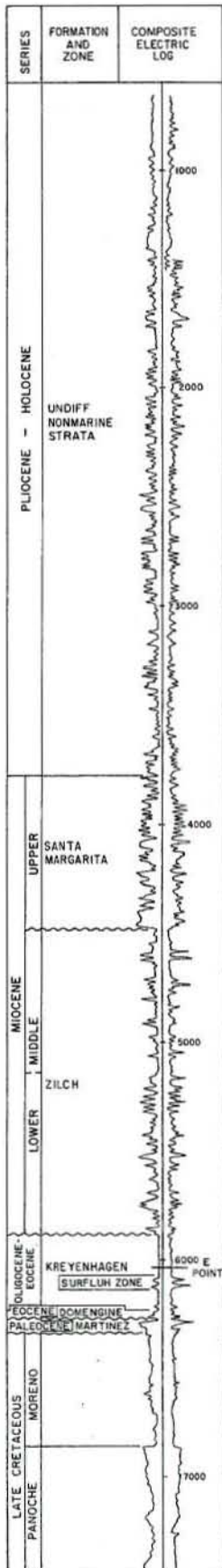
CURRENT CASING PROGRAM: Pleistocene: 7" cem. above zone; 5 1/2" liner landed through zone. Middle and late Miocene: 10 3/4" cem. 1,200; 7" cem. above zone; 5 1/2" liner landed through zone. Lower Miocene: 11 3/4" cem. 1,500; 7" cem. through zone.

METHOD OF WASTE DISPOSAL: Unlined sumps are permitted.

REMARKS: No dry gas production in 1972; cumulative dry gas production 676,765 Mcf; 2 dry gas wells were completed. The Valv zone is also referred to as Foraminite.

REFERENCES: Hardoin, J.L., Railroad Gap Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 51, No. 1 (1965).

# RAISIN CITY OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

RAISIN CITY OIL FIELD

Fresno County

LOCATION: 17 miles southwest of Fresno

TYPE OF TRAP: Anticline with minor faulting; lenticular sands

ELEVATION: 190

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Miocene Tar	Industrial Development Associates 1-18	D.H. Graham and Associates 1-18	18 15S 18E	MD	120	N.A.	Apr 1946
Miocene	Shell Oil Co. "Properties Inc" 8-18	Same as present	18 15S 18E	MD	7	5,740	Jun 1941
Eocene	Texaco Inc. "Surfluh" 53-14	Seaboard Oil Co. of Delaware "Seaboard-Tide Water Associated-Union" 53-14	14 15S 17E	MD	400	69	Aug 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Norris Oil Co. "S.A. & F.L." 1	Same	Dec 1969	19 15S 18E	MD	10,300	Panoche	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Miocene Tar	4,680	20	early Miocene	Zilch	17	2,850	III
Miocene	5,080	35	early Miocene	Zilch	24 - 60	2,580	III
Eocene	6,260	20	Eocene & Paleocene	Kreyenhagen, Domengine & Martinez	23 - 62	1,300	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
445,954	192,046	17,464,483	1,125	68	36,725,812	20,954,532	2,135,905	1956	217	187	1,670

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 900

CURRENT CASING PROGRAM: 10 3/4" cem. 600, 7" cem. above zone and across base of fresh water sands; 5 1/2" liner landed through zone.

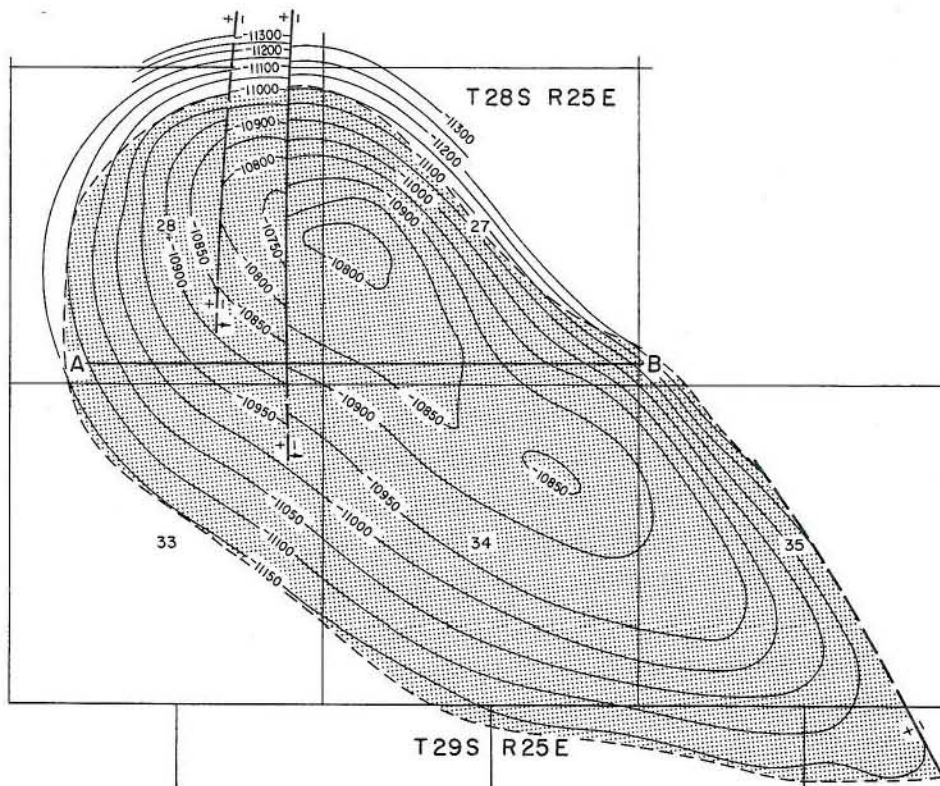
METHOD OF WASTE DISPOSAL: All water is injected. This is the largest subsurface disposal project in the San Joaquin Valley and cumulative injection through 1972 totals 392,491,128 bbls.

REMARKS:

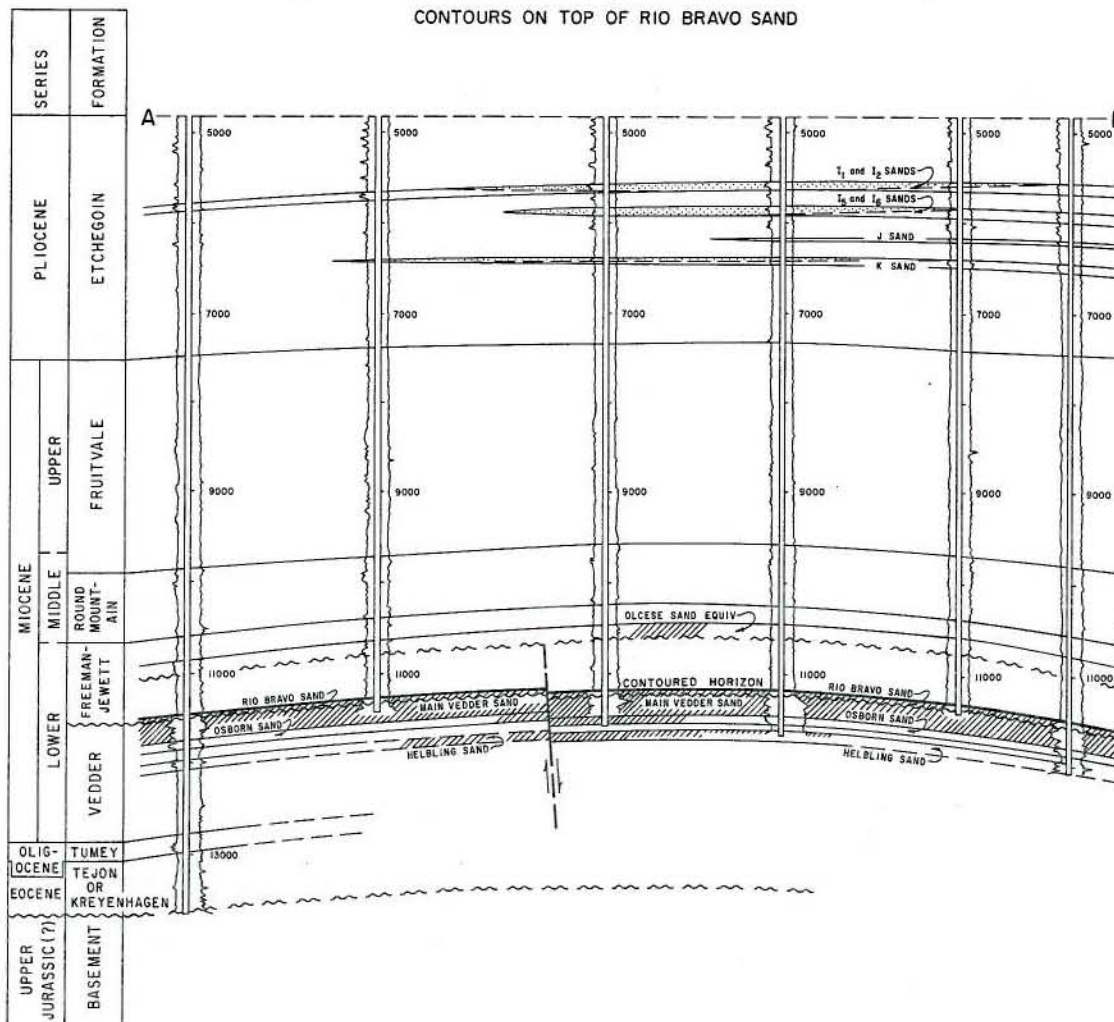
REFERENCES: Hunter, G.W., Raisin City Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 40, No. 1 (1954).



# RIO BRAVO OIL FIELD



CONTOURS ON TOP OF RIO BRAVO SAND



## CALIFORNIA DIVISION OF OIL AND GAS

RIO BRAVO OIL FIELD

Kern County

LOCATION: 15 miles northwest of Bakersfield

TYPE OF TRAP: Anticline

ELEVATION: 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin Gas	Rio Bravo Shallow Gas Sand Unit, The Superior Oil Co., Unit Opr. "Kernco" 61X-34	Union Oil Co. of Calif. "Kernco" 61X-34	34 28S 25E	MD	0	1,400	Oct 1956
Olcese	The Superior Oil Co. "Weber" 3-50	Same as present	27 28S 25E	MD	71	N.A.	Jul 1961
Rio Bravo - Vedder	The Superior Oil Co., Unit Opr. "Kernco" 85-34	Union Oil Co. of Calif. "Kernco" 1-34	34 28S 25E	MD	2,400	1,260	Nov 1937
Helbling	Union Oil Co. of Calif. "Kernco" 62-34	Same as present	34 28S 25E	MD	330	N.A.	Aug 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "Helbling" 1	Same	May 1938	1 29S 25E	MD	14,018	Basement (metamorphics)	late Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin Gas	6,000	30	early Pliocene	Etchegoin	1,015	2,250	III
Olcese	10,550	130	early Miocene	Freeman-Jewett	34	N.A.	IV
Rio Bravo - Vedder	11,400	400	early Miocene	Vedder	35 - 40	1,250	IV
Helbling	11,650	130	early Miocene	Vedder	34	760	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
586,122	3,832,179	1,736,539	1,870	42	112,700,329	112,694,314	5,922,268	1944	160	155	2,080

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Gas injection for pressure maintenance	1946	170,064,208	7
Water flood	1949	61,296,852	9

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

CURRENT CASING PROGRAM: 11 3/4" cem. 1,300; 7" cem. above zone; 5 1/2" liner landed through zone.

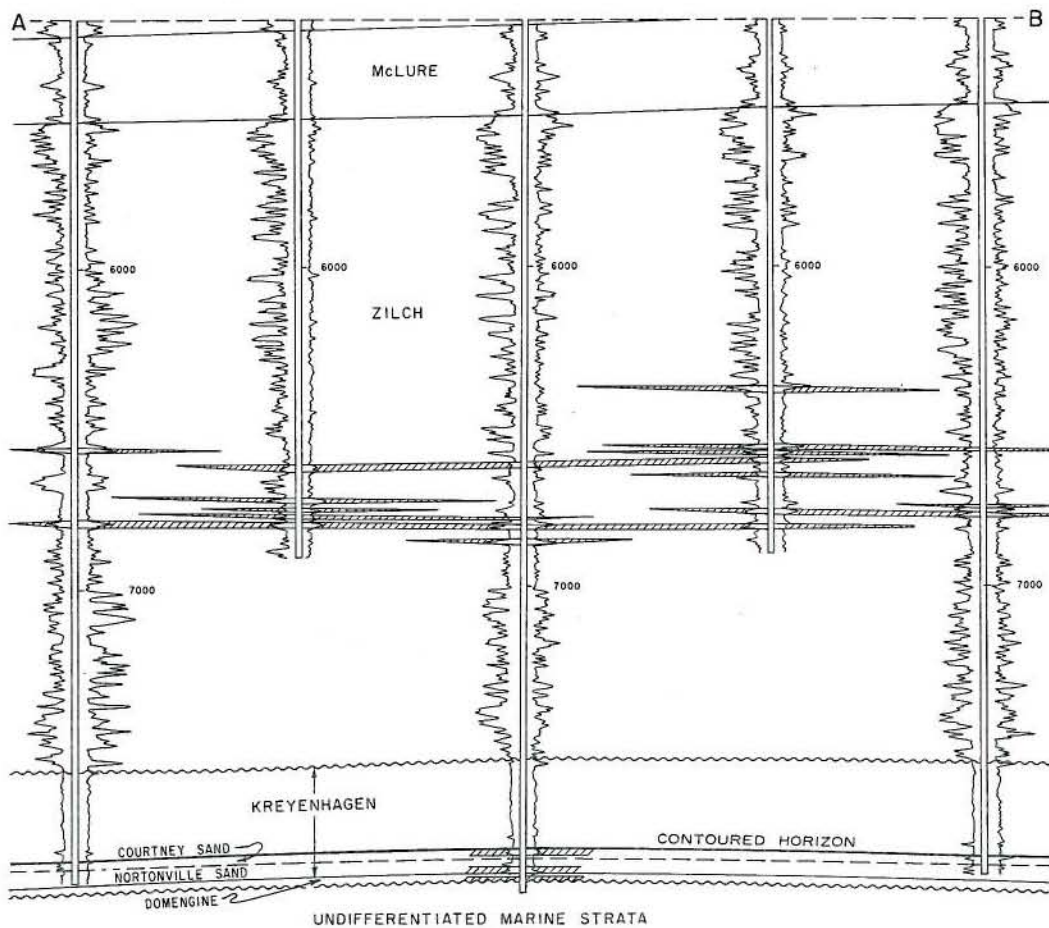
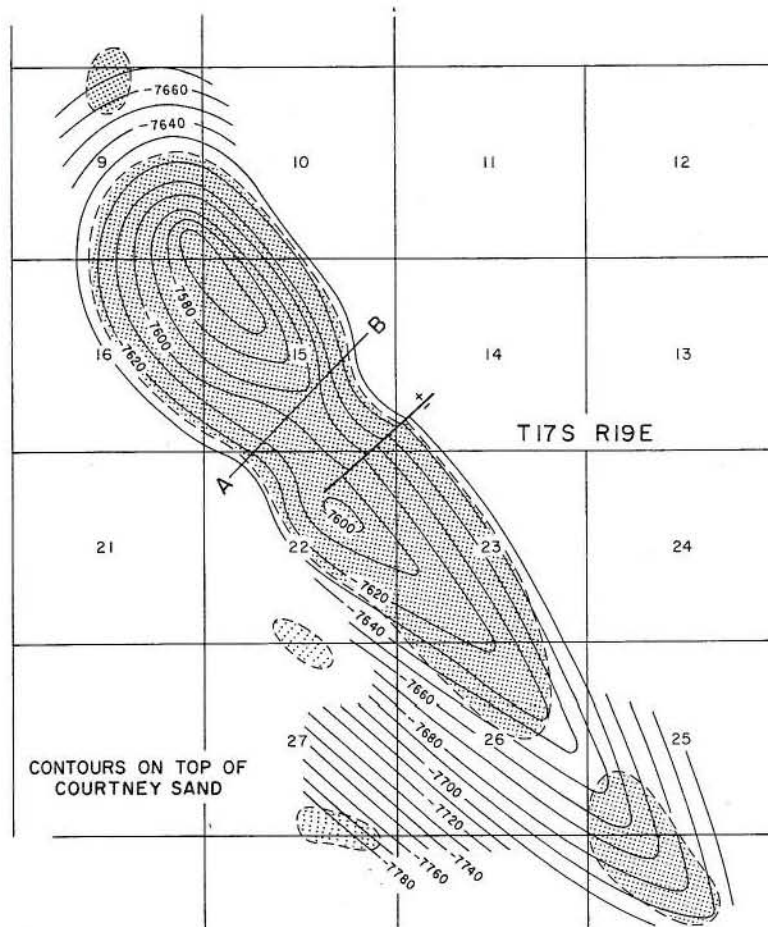
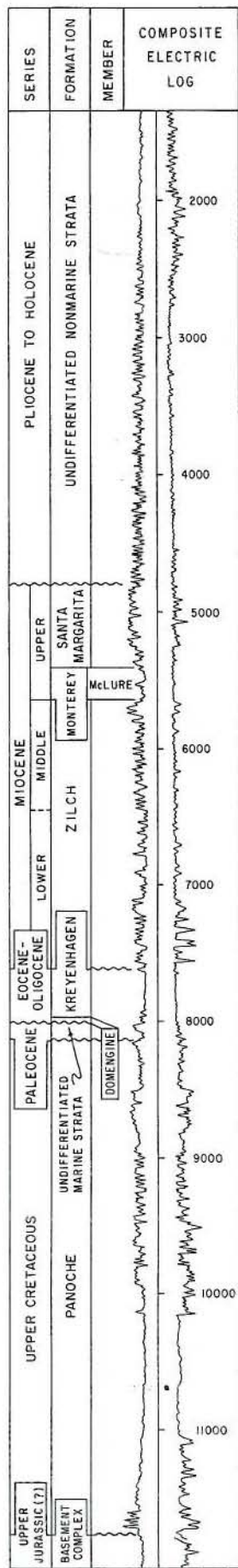
METHOD OF WASTE DISPOSAL: All waste water is used in the Rio Bravo - Vedder zone water flood. Primary purpose is disposal, however, there may be some water-flood effect.

REMARKS:

REFERENCES: Sullivan, J.C., Rio Bravo Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 1 (1960).



# RIVERDALE OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

RIVERDALE OIL FIELD

Fresno County

LOCATION: 20 miles southwest of Fresno

TYPE OF TRAP: Anticline; lenticular sands

ELEVATION: 215

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Zilch Eocene	Amerada Hess Corp. "Lawton" 45-26	Amerada Petroleum Corp. "Lawton" 45-26	26 17S 19E	MD	290	296	Dec 1941
	Samson Resources Co. "Courtney" 34-23	Amerada Petroleum Corp. "Courtney" 34-23	23 17S 19E	MD	229	118	Jul 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Amerada Hess Corp. "Lawton" 58-26	Amerada Petroleum Corp. "Lawton" 58-26	Apr 1942	26 17S 19E	MD	11,998	Basement (Slate)	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Zilch	6,800	50	early Miocene	Zilch	34 - 38	2,360	III
Eocene	7,830	35	Eocene	Kreyenhagen & Domengine	37	1,320	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
218,475	202,643	2,074,528	830	32	18,546,922	28,119,584	1,546,699	1947	120	98	1,870

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,500 - 1,850

CURRENT CASING PROGRAM: 9 5/8" cem 500; 5 1/2" cem 7,000 - 8,000.

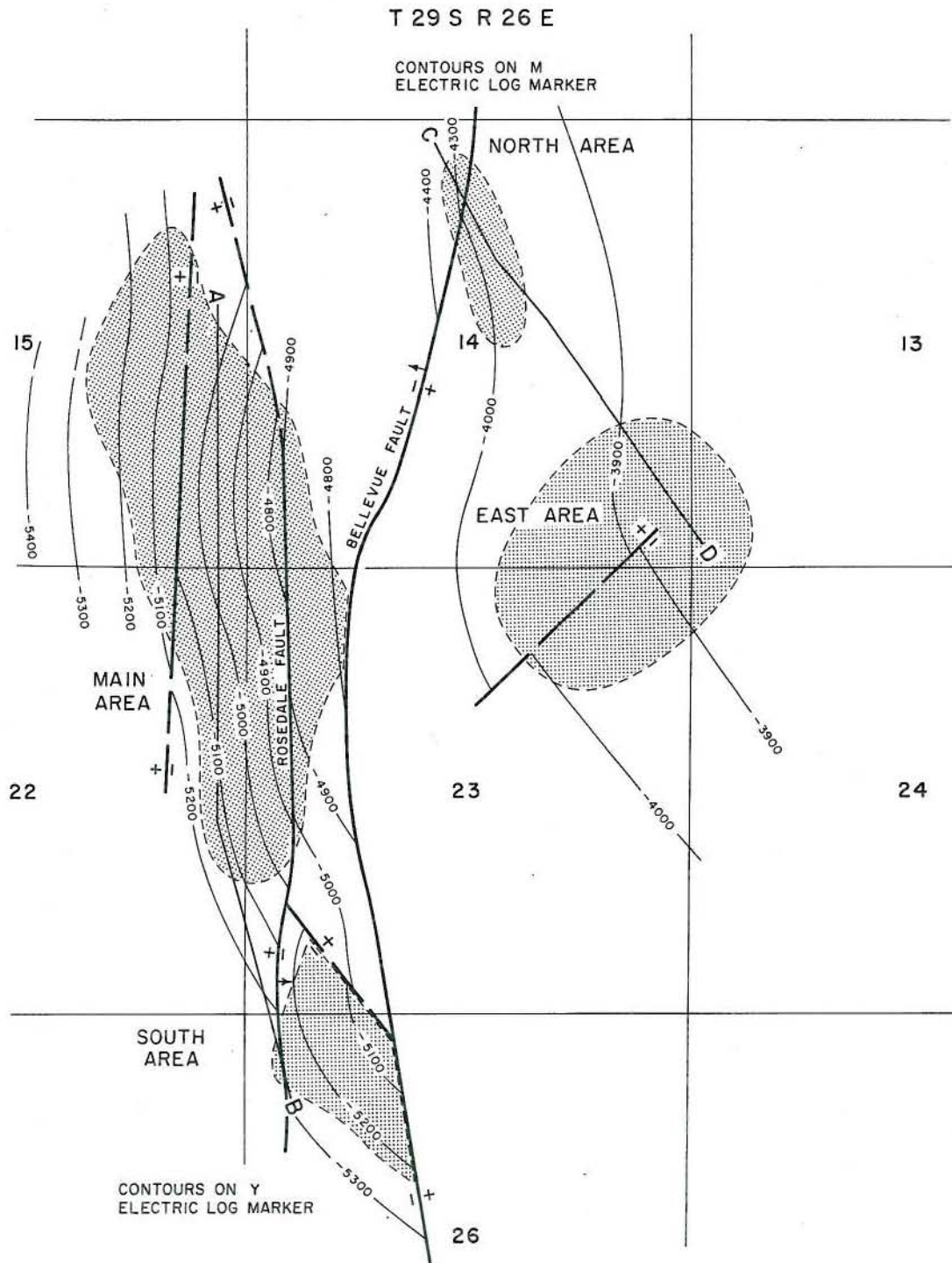
METHOD OF WASTE DISPOSAL: All water is injected.

REMARKS: Sands included in the Eocene productive zone are the Courtney, Nortonville, and Domengine (all of Eocene age).

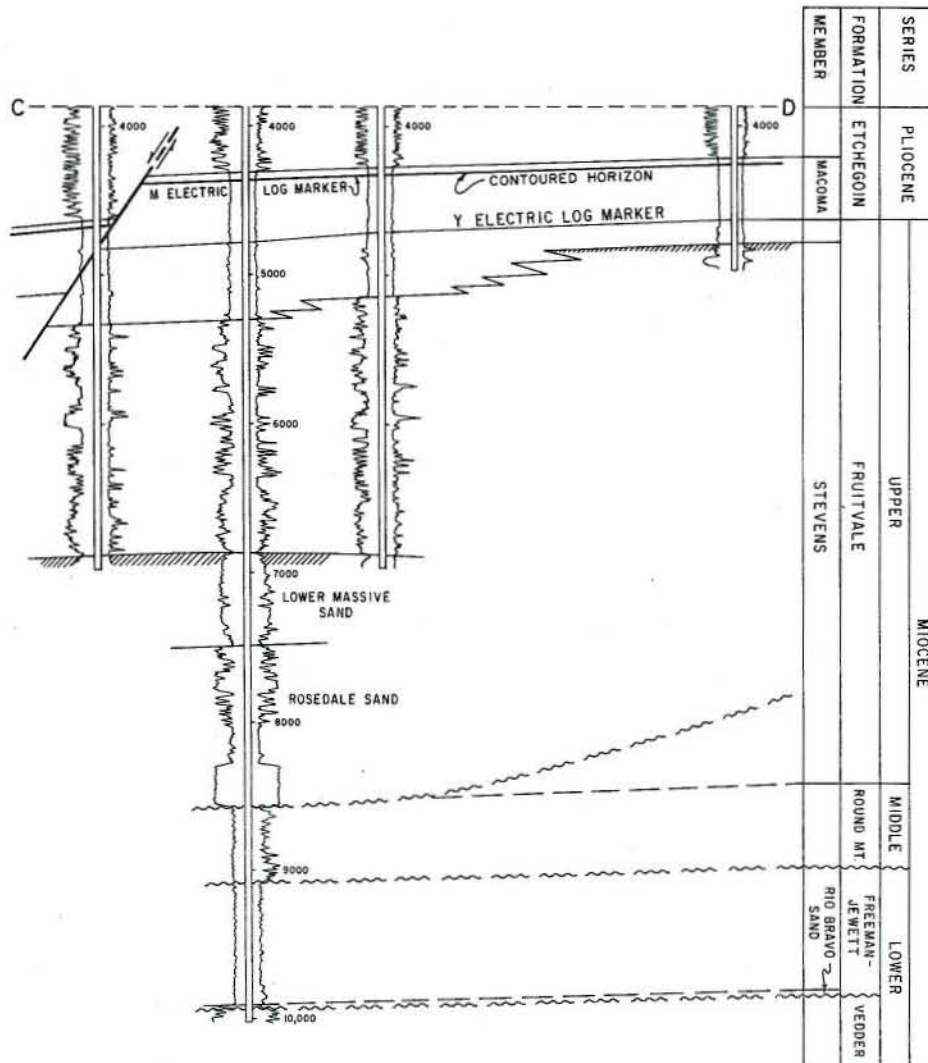
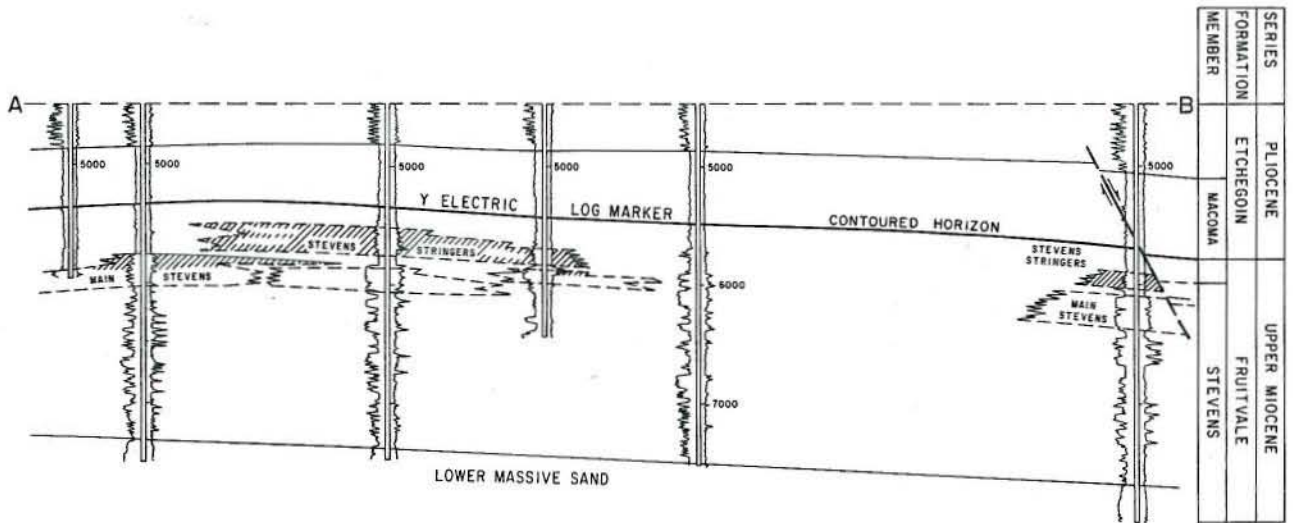
REFERENCES: Hunter, G.W., Riverdale Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 38, No. 2 (1952).



# ROSEDALE OIL FIELD



# ROSEDALE OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

ROSEDALE OIL FIELD

Kern County

LOCATION: 7 miles west of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 355

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Main Stevens	Frank Goldman "Rosedale-Stevens Community" 1	Humble Oil & Refining Co. "Rosedale-Stevens Community" 1	15 29S 26E	MD	507	184	Sep 1951

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "Smith" 34X-23	Same	Sep 1952	23 29S 26E	MD	10,617	Olcese	early Mio

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
72,210	4,476	76,047	200	14	4,441,664	5,689,373	527,937	1954	66	41	410

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.

# CALIFORNIA DIVISION OF OIL AND GAS

ROSEDALE OIL FIELD

EAST AREA

Kern County

LOCATION: See map sheet of Rosedale Oil Field

TYPE OF TRAP: Lithofacies change on an anticlinal nose

ELEVATION: 355

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Exxon Corp. "Kern County Land Co. G" 1	Humble Oil & Rfg. Co. "Kern County Land Co. G" 1	23 29S 26E	MD	95	29	Jan 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Jan 1959	23 29S 26E	MD	7,200	Stevens	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	4,800 - 6,800	10 - 50	late Miocene	Fruitvale	28	1,600	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
6,966	0	21,395	30	3	334,082	627,208	71,525	1960	9	7	80

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,200

CURRENT CASING PROGRAM: 9 5/8" cem. 700; 5 1/2" cem. through zone and across base of fresh-waters.

METHOD OF WASTE DISPOSAL: Waste water is transported by pipe line to Main Area of field for disposal in a subsurface project.

REMARKS:

REFERENCES: Beecroft, G.W., North, South, and East Areas of Rosedale Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 53, No. 2 (1967).



# CALIFORNIA DIVISION OF OIL AND GAS

ROSEDALE OIL FIELD

MAIN AREA

Kern County

LOCATION: See map sheet of Rosedale Oil Field

TYPE OF TRAP: Faulted anticlinal nose; lithofacies variations

ELEVATION: 355

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens Sand Stringers	Frank Goldman "T.N. Knight" 2	Humble Oil & Rfg. Co. "T.N. Knight" 2	15 29S 26E	MD	73	30	Apr 1952
Main Stevens	Frank Goldman "Rosedale-Stevens Community" 1	Humble Oil & Rfg. Co. "Rosedale-Stevens Community" 1	15 29S 26E	MD	507	184	Sep 1951
Lower Massive Stevens	Frank Goldman "Rosedale Oil Unit No. 1" 1	Humble Oil & Rfg. Co. "Rosedale Oil Unit No. 1" 1	22 29S 26E	MD	22	5	Apr 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Union Oil Co. of Calif. "Smith" 34X-23	Same	Sep 1952	23 29S 26E	MD	10,617	Olcese	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens Sand Stringers	5,600	10 - 50	late Miocene	Fruitvale	26 - 35	N.A.	III
Main Stevens	5,800	20 - 100	late Miocene	Fruitvale	32	1,700	III
Lower Massive Stevens	7,500	25	late Miocene	Fruitvale	31	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
46,300	2,040	43,850	120	8	3,318,221	4,523,669	527,937	1954	42	24	230

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,200

CURRENT CASING PROGRAM: 9 5/8" cem. 800; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water from East and Main Areas is injected into the Etchegoin formation.

REMARKS: A water flood in the Main Stevens was begun in 1960 and terminated after 3,591,296 bbls. was injected.

REFERENCES: Albright, M.B., Rosedale Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 40, No. 1 (1954).

# CALIFORNIA DIVISION OF OIL AND GAS

ROSEDALE OIL FIELD

NORTH AREA

Kern County

LOCATION: See map sheet of Rosedale Oil Field

TYPE OF TRAP: Lithofacies variations on an anticlinal nose

ELEVATION: 355

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Lower Massive Stevens	Tenneco West, Inc. "KCL" 53-14	Shell Oil Co. "KCL" 53-14	14 29S 26E	MD	60	330	May 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco West, Inc. "KCL" 53-14	Shell Oil Co. "KCL" 53-14	Apr 1957	14 29S 26E	MD	10,029	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Lower Massive Stevens	6,900	120	late Miocene	Fruitvale	31	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
16,212	2,436	9,018	30	2	161,159	124,182	23,752	1958	6	4	40

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,200

CURRENT CASING PROGRAM: 9 5/8" cem. 700; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: After January 1, 1973, unlined sumps are not permitted.

REMARKS:

REFERENCES: Beecroft, G.W., North, South, and East Areas of Rosedale Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 53, No. 2 (1967).

## CALIFORNIA DIVISION OF OIL AND GAS

ROSEDALE OIL FIELD

SOUTH AREA

Kern County

LOCATION: See map sheet of Rosedale Oil Field

TYPE OF TRAP: Faulted anticlinal nose; lithofacies variations

ELEVATION: 355

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens	Atlantic Oil Co. "Ricards" 1	Atlantic Oil Co. "Rosedale" 1	26 29S 26E	MD	260	113	Sep 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "William H. Cornelson et ux" 1	Humble Oil & Refg. Co. "William H. Cornelson et ux" 1	Jan 1956	26 29S 26E	MD	8,000	Stevens	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens	5,800 - 6,100	20 - 60	late Miocene	Fruitvale	32	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
2,732	0	1,784	20	1	628,202	414,314	228,770	1956	9	6	60

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,200

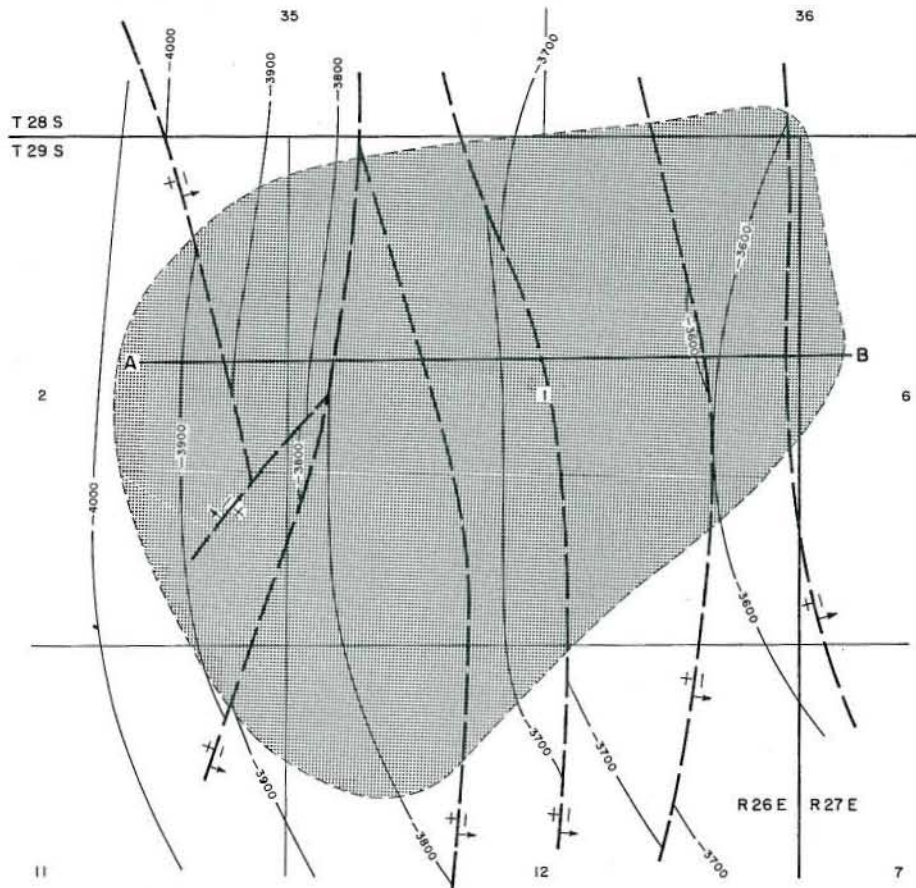
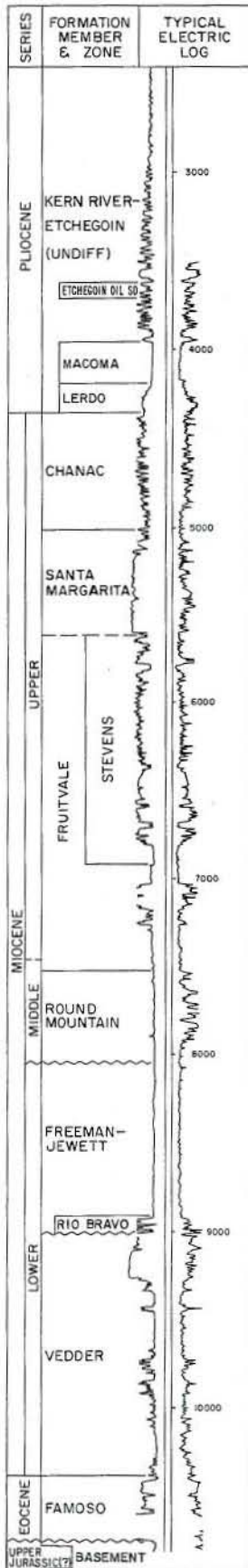
CURRENT CASING PROGRAM: 9 5/8" cem. 700; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: After January 1, 1973, unlined sumps are not permitted.

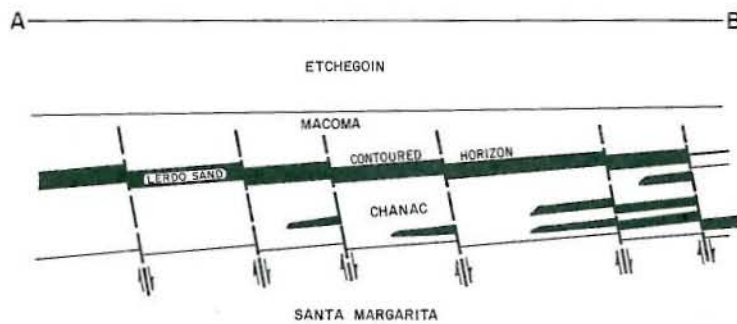
REMARKS:

REFERENCES: Beecroft, G.W., North, South, and East Areas of Rosedale Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 53, No. 2 (1967).

# ROSEDALE RANCH OIL FIELD



CONTOURS ON TOP OF LERDO SAND





# CALIFORNIA DIVISION OF OIL AND GAS

ROSEDALE RANCH OIL FIELD

Kern County

LOCATION: 6 miles northwest of Bakersfield

TYPE OF TRAP: Faulted anticlinal nose; lithofacies changes

ELEVATION: 380

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Etchegoin sand	Standard Oil Co. of Calif. "KCL 62" 178-2	Standard Oil Co. of Calif. "Kern County Land Lease 31" 78-2	2 29S 26E	MD	224	0	Jul 1965
Lerdo	Mobil Oil Corp. "Kernway" 75-1	General Petroleum Corp. "Kernway" 75-1	1 29S 26E	MD	131	64	Aug 1945
KCL 31-38	Standard Oil Co. of Calif. "Kern County Land Lease 31" 38-1	Same as present	1 29S 26E	MD	152	20	Oct 1953
Kernway 44	Standard Oil Co. of Calif. "Kern County Land Lease 31" 44-1	General Petroleum Corp. "Kernway" 44-1	1 29S 26E	MD	109	N.A.	Mar 1945

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Kern County Land Lease 31" 12-1	Same	Oct 1952	1 29S 26E	MD	10,812	Basement (Gabbro)	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Etchegoin sand	3,500	100	Pliocene	Etchegoin	15	N.A.	II
Lerdo	4,200	160	Pliocene	Etchegoin	17	1,270	III
KCL 31-38	4,675	80	late Miocene	Chanac	20	1,650	III
Kernway 44	4,900	100	late Miocene	Chanac	24	1,650	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
338,886	126,486	6,656,460	660	47	11,380,258	8,315,277	705,690	1955	110	86	750

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1955	46,434,947	4

SPACING ACT: Applies

BASE OF FRESH WATER: 2,500

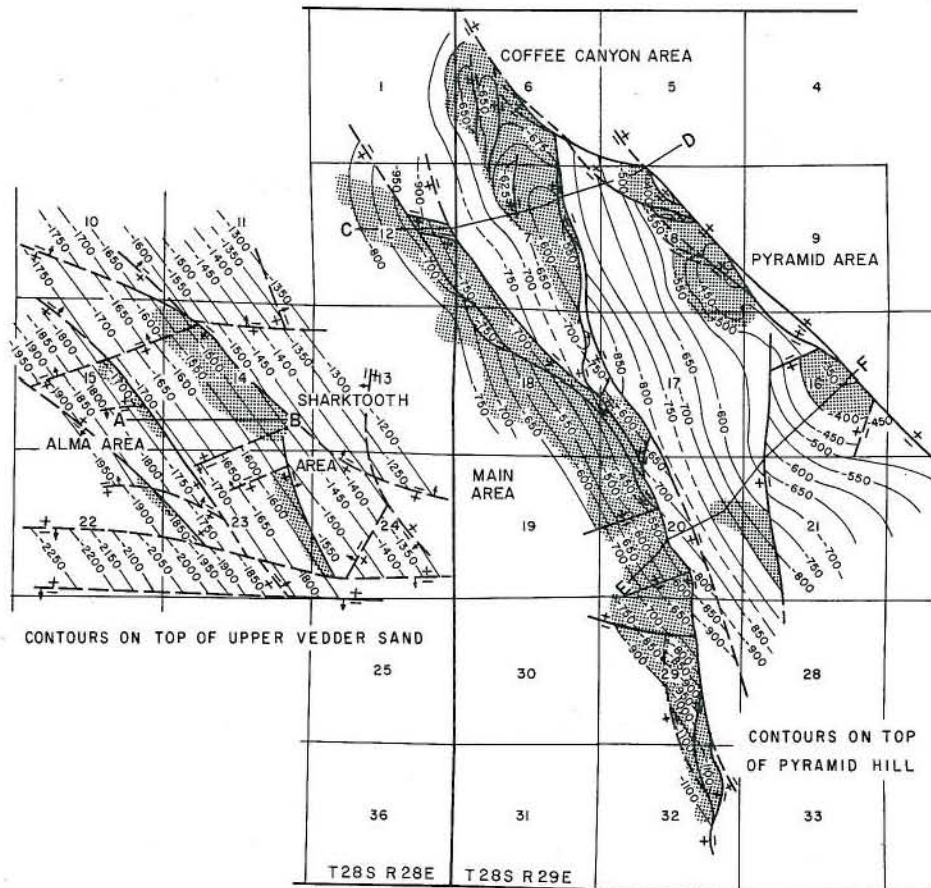
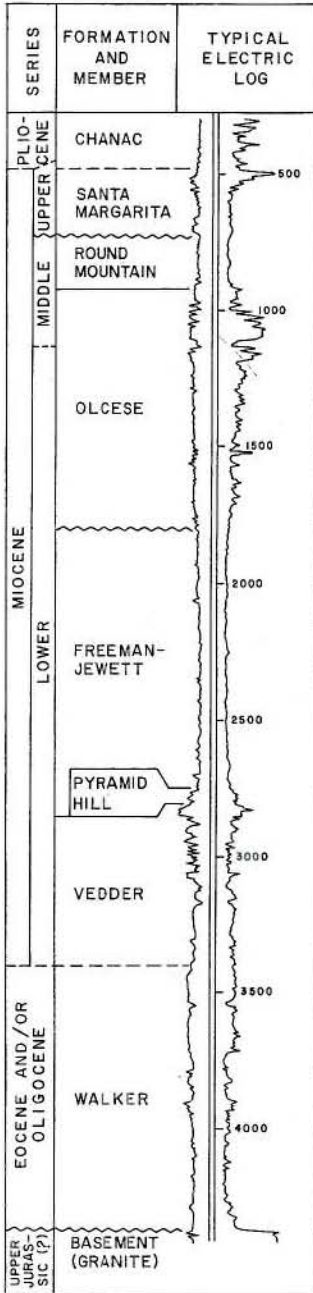
CURRENT CASING PROGRAM: 11 3/4" cem. 500; 8 5/8" cem. above zone and across base of fresh-water sands; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is injected into the Etchegoin and Chanac zones. Cumulative injection totals 19,845,216 bbls.

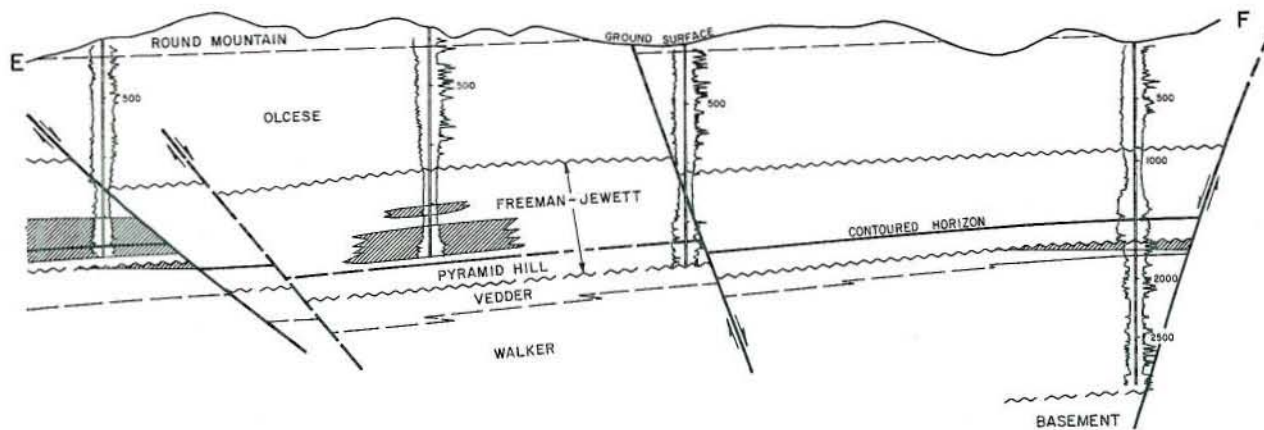
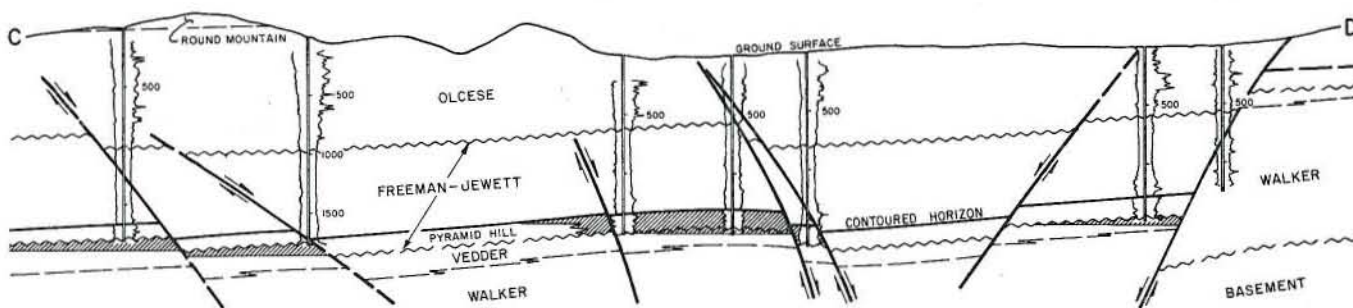
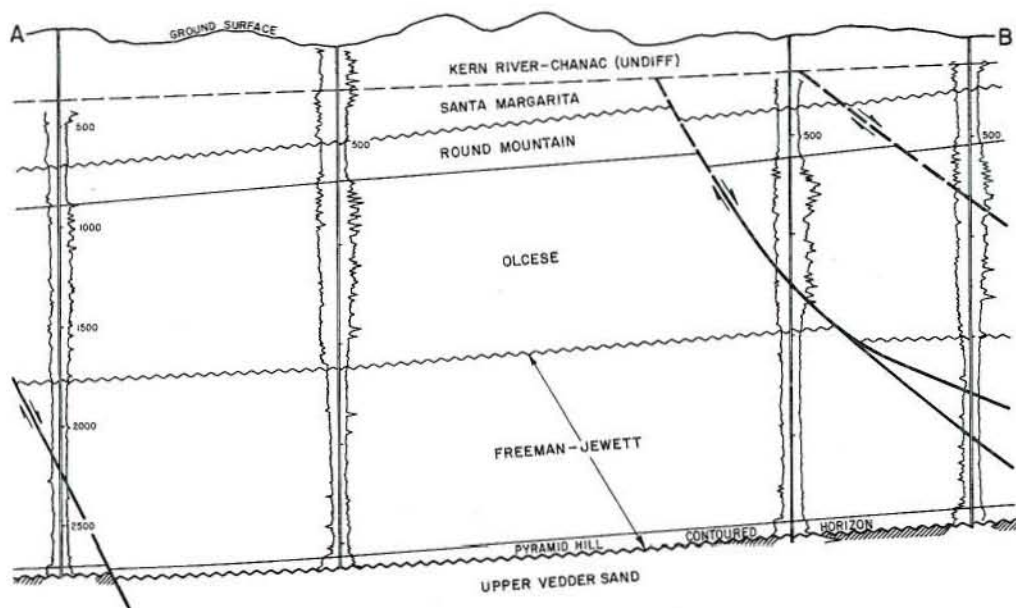
REMARKS: A cyclic-steam injection project was started in the Etchegoin sand in 1966 and terminated after 7,548 bbls. was injected.

REFERENCES: Betts, F.W., Rosedale Ranch Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 41, No. 1 (1955).

# ROUND MOUNTAIN OIL FIELD



# ROUND MOUNTAIN OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

ROUND MOUNTAIN OIL FIELD

Kern County

LOCATION: 14 miles northeast of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 600 - 1,500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Jewett	Getty Oil Co. No. 2	Elbe Oil Land Dev. Co. No. 2	20 28S 29E	MD	*204	N.A.	May 1927
Pyramid Hill	Same as above	Same as above	20 28S 29E	MD	N.A.	N.A.	May 1927
Vedder	Same as above	Same as above	20 28S 29E	MD	N.A.	N.A.	May 1927

Remarks: \* Production listed for Jewett is the combined production rate from the Jewett, Pyramid Hill, and Vedder zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
C.C. Killingsworth "Alma" 6	Barnsdall Oil Co. "Alma" 6	Mar 1948	15 28S 28E	MD	4,418	Basement (Granite)	Late Jur (?)

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
711,406	46,635	48,630,496	2,435	292	89,199,121	1,424,213	5,453,194	1938	665	468	2,590

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.



# CALIFORNIA DIVISION OF OIL AND GAS

ALMA AREA

ROUND MOUNTAIN OIL FIELD

Kern County

LOCATION: See map sheet of Round Mountain Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 700 - 1,270

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vedder	Harold C. Morton & H.S. Kohlbusch "Alma" 1	Same as present	15 28S 28E	MD	152	N.A.	Feb 1947

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
C.C. Killingsworth "Alma" 6	Barnsdall Oil Co. "Alma" 6	Mar 1948	15 28S 28E	MD	4,418	Basement (Granite)	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vedder	2,600	15	early Miocene	Vedder	13	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
6,240	0	107,447	50	3	598,904	0	113,392	1948	47	21	80

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps on outcrops of the Round Mountain Silt.

REMARKS:

REFERENCES: Albright, M.B. Jr., Sharktooth and Alma Areas of Round Mountain Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 1 (1956).

# CALIFORNIA DIVISION OF OIL AND GAS

COFFEE CANYON AREA

ROUND MOUNTAIN OIL FIELD

Kern County

LOCATION: See map sheet of Round Mountain Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 690 - 1,300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pyramid Hill Vedder	Acacia Oil Co. "Coffee" 1	Reynolds Oil and Gas Co. No. 1	6 28S 29E	MD	*600	N.A.	Sep 1928
	Acacia Oil Co. "Lindsay" 1	Lindsay Oil Co. No. 1	6 28S 29E	MD	800	N.A.	Aug 1928

Remarks: \* Production is commingled from Pyramid Hill and Vedder.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Richard S. Rheem, Opr. "Smoot-Vedder" 2	Same	May 1957	1 28S 28E	MD	2,313	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pyramid Hill Vedder	1,500	150	early Miocene	Jewett	18	50	None
	1,650	30	early Miocene	Vedder	16	75	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
103,176	0	7,292,707	435	50	18,507,039	67,567	1,857,108	1937	133	104	475

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water Flood	1960	3,815,746	1

SPACING ACT: Does not apply

BASE OF FRESH WATER: 0 - 200

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps on outcrops of the Round Mountain Silt.

REMARKS: A cyclic-steam injection project in the Pyramid Hill and Vedder zones was started in 1965 and terminated in 1968. Cumulative injection totals 12,200 bbls. The Pyramid Hill zone was originally known as the Elbe zone.

REFERENCES: Park, W.H., J.R. Weddle, J.A. Barnes, Main, Coffee Canyon, and Pyramid Areas of Round Mountain Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 2 (1963).

# CALIFORNIA DIVISION OF OIL AND GAS

ROUND MOUNTAIN OIL FIELD

MAIN AREA

Kern County

LOCATION: See map sheet of Round Mountain Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 600 - 1,500

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Jewett	Getty Oil Co. No. 2	Elbe Oil Land Dev. Co. No. 2	20 28S 29E	MD	*204	N.A.	May 1927
Pyramid Hill	Same as above	Same as above	20 28S 29E	MD	N.A.	N.A.	May 1927
Vedder	Same as above	Same as above	20 28S 29E	MD	N.A.	N.A.	May 1927

Remarks: \* Production listed for Jewett is the combined production rate from the Jewett, Pyramid Hill, and Vedder zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Jewett" 3	Same	Jun 1928	29 28S 29E	MD	2,678	Walker	Eo &/or Olig

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Jewett	1,600	130	early Miocene	Freeman-Jewett	22	N.A.	None
Pyramid Hill	1,900	150	early Miocene	Jewett	18	N.A.	None
Vedder	2,000	80	early Miocene	Vedder	16	95	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
510,916	46,561	35,953,284	1,415	171	59,572,216	1,293,959	3,794,620	1938	302	225	1,465

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: 4,845,286 bbl. of waste water was injected during 1972 into two disposal wells; percolation and evaporation sumps on outcrops of the Round Mountain Silt.

REMARKS: A water flood project in the Vedder zone was started in 1961 and terminated in 1963. Cumulative injection totals 872,587 bbls.

REFERENCES: Park, W.H., J.R. Weddle, J.A. Barnes, Main, Coffee Canyon, and Pyramid Areas of Round Mountain Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 2 (1963).

## CALIFORNIA DIVISION OF OIL AND GAS

ROUND MOUNTAIN OIL FIELD

PYRAMID AREA

Kern County

LOCATION: See map sheet of Round Mountain Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 730 - 1,470

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pyramid Hill	Thomas Oil Co. "Olcese" 2	Harp & Brown "Olcese" 2	17 28S 29E	MD	5	0	May 1944
Vedder	Crestmont Oil Co. "Olcese" 1	Eastmont Oil Co. "Olcese" 1	16 28S 29E	MD	250	N.A.	May 1937
Walker	Crestmont Oil Co. "Staley" 11	Same as present	8 28S 29E	MD	40	N.A.	Jul 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Piute Holding Co. "Smith" 1	Same	Oct 1929	17 28S 29E	MD	3,110	Walker	Eo &/or Olig

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pyramid Hill	1,250	130	early Miocene	Jewett	18	50	None
Vedder	1,390	40	early Miocene	Vedder	16	80 - 110	None
Walker	1,535	50	Eo &/or Olig	Walker	20	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
55,714	74	1,527,767	290	37	5,692,349	6,876	378,882	1946	98	60	300

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 8 5/8" or 7" cem. above zone; 6 5/8" or 5" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps on outcrops of the Round Mountain Silt.

REMARKS:

REFERENCES: Park, W.H., J.R. Weddle, J.A. Barnes, Main, Coffee Canyon, and Pyramid Areas of Round Mountain Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 49, No. 2 (1963).



## CALIFORNIA DIVISION OF OIL AND GAS

ROUND MOUNTAIN OIL FIELD

SHARKTOOTH AREA

Kern County

LOCATION: See map sheet of Round Mountain Oil Field

TYPE OF TRAP: Faulted homocline

ELEVATION: 700 - 1,300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vedder	G M V Oil Co. "Signal-Mills" 1	Bandini Petroleum Co. "Signal Mills" 1	24 28S 28E	MD	214	N.A.	Sep 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Mobil Oil Corp. "Bradford" 1	General Petroleum Corp. "Bradford" 1	Jun 1943	15 28S 28E	MD	2,995	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vedder	2,400	25	early Miocene	Vedder	13	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
35,360	0	3,749,291	245	31	4,828,613	55,811	503,449	1947	85	58	270

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
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SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

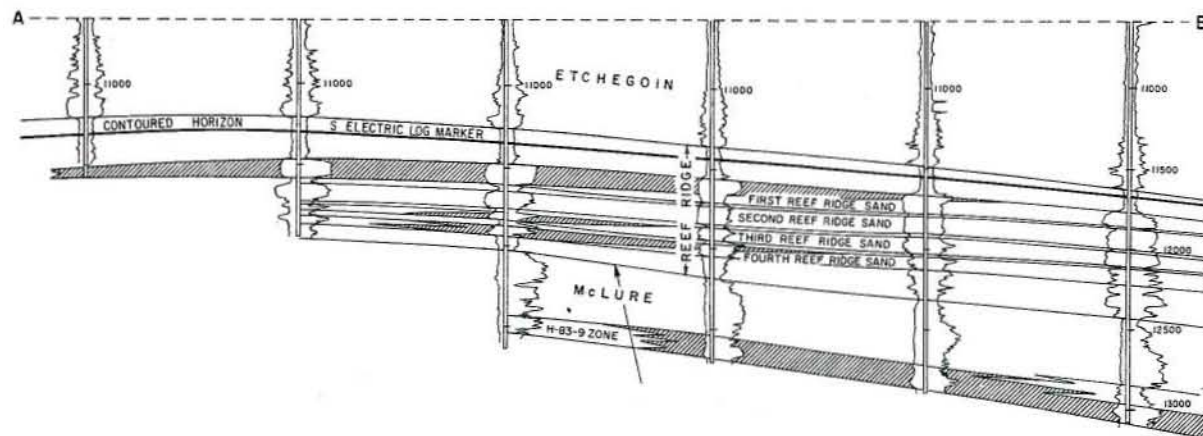
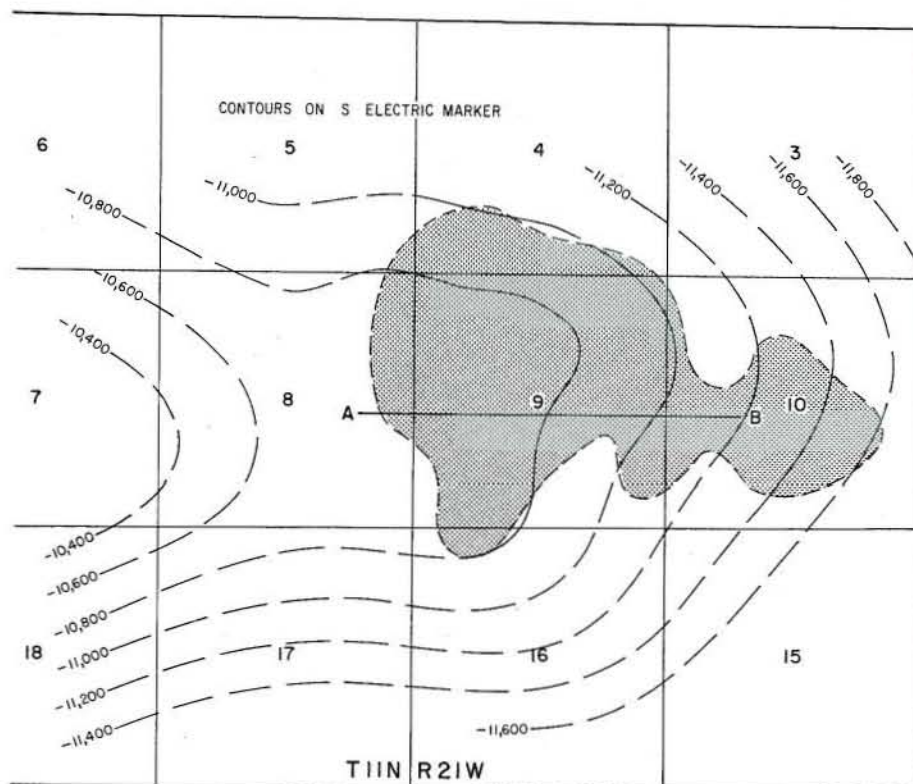
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps on outcrops of the Round Mountain Silt.

REMARKS:

REFERENCES: Albright, M.B. Jr., Sharktooth and Alma Areas of Round Mountain Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 1 (1956).

# SAN EMIDIO NOSE OIL FIELD

UPPER MIocene	MONTEREY	FORMATION MEMBER AND ZONE	THICKNESS (FEET)
PLEISTOCENE	TULARE	ALLUVIUM	550
PLIOCENE	SAN JOAQUIN		4500
UPPER MIocene	MONTEREY	ETCHEGOIN	4200
UPPER MIocene	MONTEREY	REEF RIDGE	1000
UPPER MIocene	MONTEREY	H-83-9	650



# CALIFORNIA DIVISION OF OIL AND GAS

SAN EMIDIO NOSE OIL FIELD

Kern County

LOCATION: 23 miles south of Bakersfield

TYPE OF TRAP: Permeability barriers on an anticlinal nose

ELEVATION: 530

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
1st Reef Ridge	Atlantic Richfield Co. "KCL H" 34-9	Richfield Oil Corp. "KCL H" 34-9	9 11N 21W	SB	667	140	Jul 1958
3rd Reef Ridge	Atlantic Richfield Co. "KCL H" 63-9	Richfield Oil Corp. "KCL H" 63-9	9 11N 21W	SB	510	245	Nov 1958
4th Reef Ridge	Atlantic Richfield Co. "KCL H" 63-9	Richfield Oil Corp. "KCL H" 63-9	9 11N 21W	SB	*	*	Nov 1958
H-83-9	Atlantic Richfield Co. "KCL H" 83-9	Richfield Oil Corp. "KCL H" 83-9	9 11N 21W	SB	549	40	Mar 1959

Remarks: \* Production from 3rd and 4th Reef Ridge was commingled.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "KCL H" 43-10	Richfield Oil Corp. "KCL H" 43-10	Sep 1960	10 11N 21W	SB	14,499	McLure	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
1st Reef Ridge	11,500	120	late Miocene	Monterey	30	1,000	IV
3rd Reef Ridge	11,740	60	late Miocene	Monterey	31	1,000	IV
4th Reef Ridge	11,870	60	late Miocene	Monterey	33	1,000	IV
H-83-9	12,600	150	late Miocene	Monterey	32	380	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
446,743	133,956	225,876	1,090	11	16,210,186	4,270,988	2,199,735	1960	38	27	1,140

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1967	3,600,061	4

SPACING ACT: Applies

BASE OF FRESH WATER: 3,800 - 5,000

CURRENT CASING PROGRAM: 11 3/4" cem. 800; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

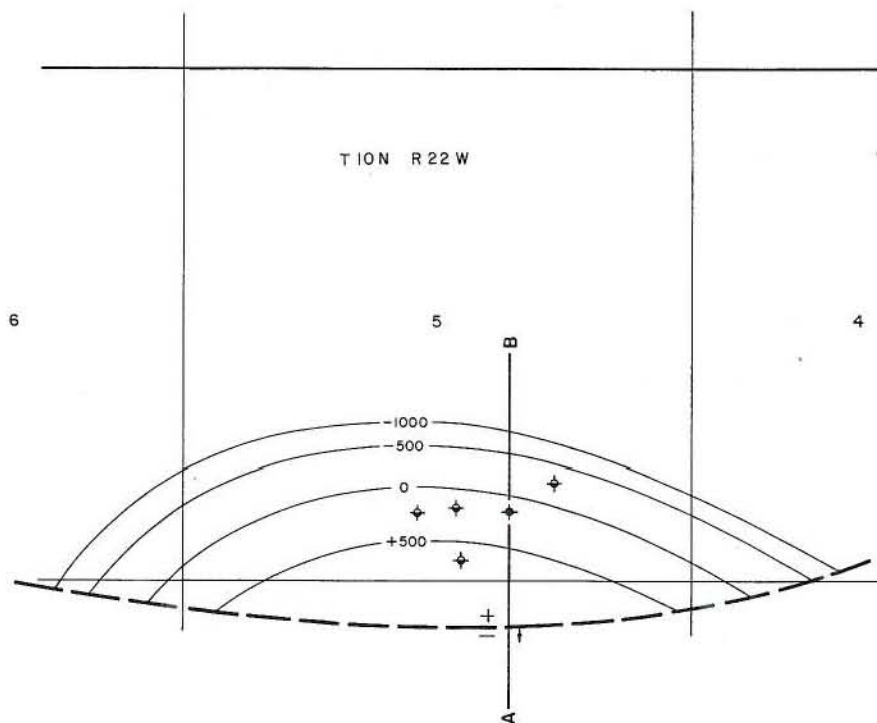
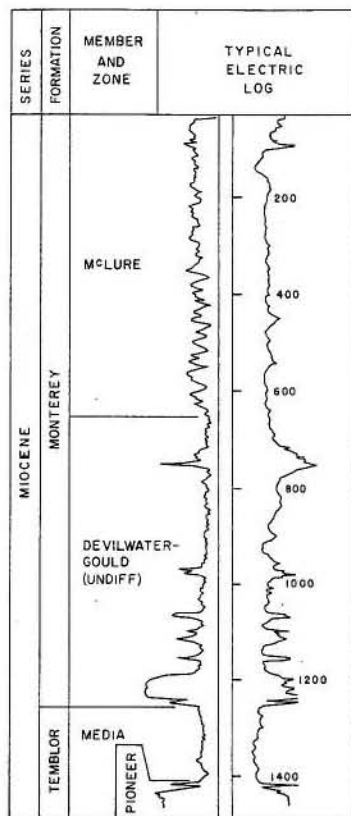
METHOD OF WASTE DISPOSAL: All of the waste water is injected into the Tulare and San Joaquin formations. Cumulative injection totals 5,361,244 bbls.

REMARKS: The "H-83-9" zone is also referred to as a Stevens sand.

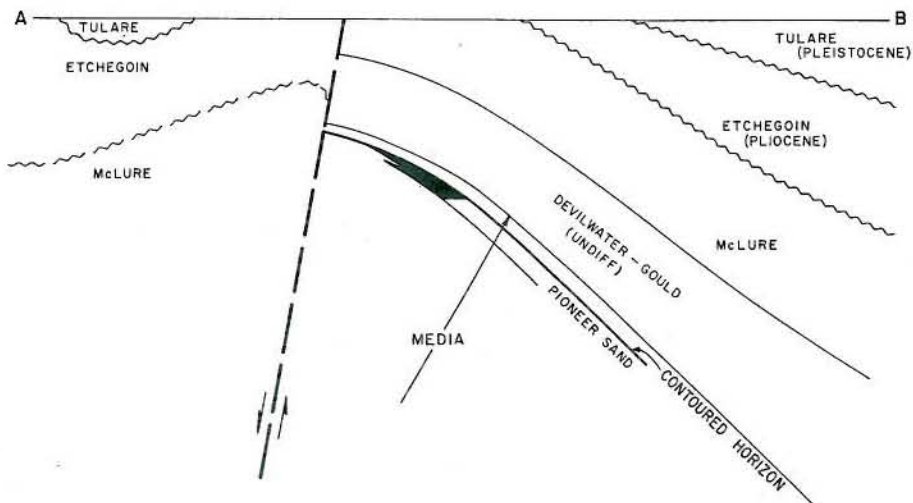
REFERENCES: Land, P.E., San Emidio Nose Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 1 (1960).

# SAN EMIGDIO OIL FIELD

(Abandoned)



CONTOURS ON TOP OF PIONEER SAND





# CALIFORNIA DIVISION OF OIL AND GAS

SAN EMIGDIO OIL FIELD (Abandoned)

Kern County

LOCATION: 17 miles southeast of Taft

TYPE OF TRAP: Lithofacies change on faulted anticlinal nose

ELEVATION: 1,600

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pioneer	Apex Petroleum Corp. Ltd. "Los Lobos" 3	Same as present	5 10N 22W	SB	25	N.A.	Mar 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Apex Petroleum Corp. Ltd. "Los Lobos" 1	Same	Sep 1947	5 10N 22W	SB	3,504	Temblor	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pioneer	1,415	62	early Miocene	Temblor	28	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	1,864	0	793	1948	6	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

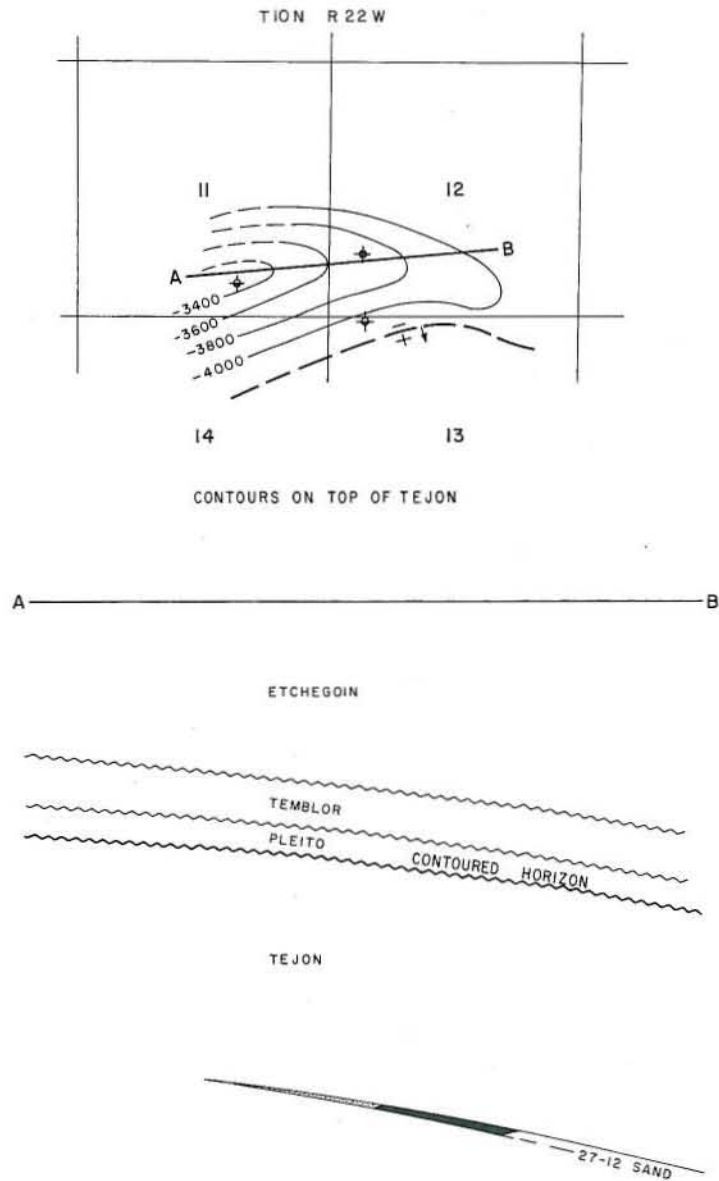
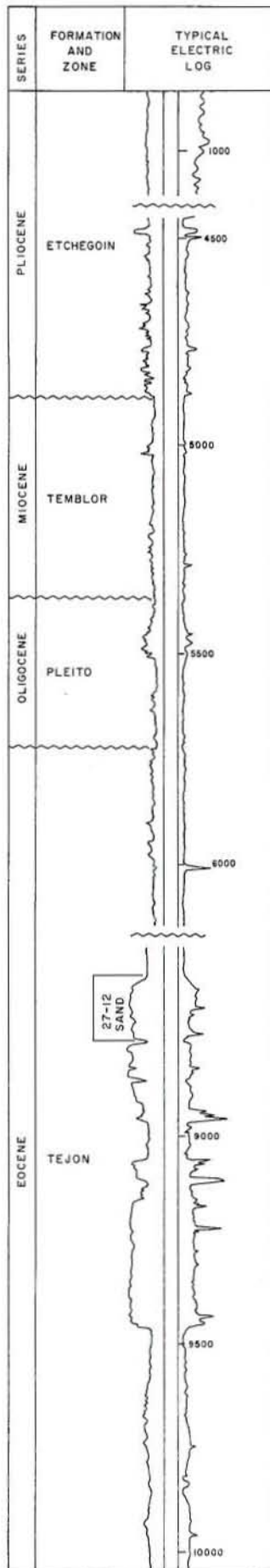
CURRENT CASING PROGRAM: 11 3/4" cem. 200; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: Abandoned August 1953. Formerly known as Los Lobos Area.

REFERENCES:

# SAN EMIGDIO CREEK OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

SAN EMIGDIO CREEK OIL FIELD (Abandoned)

Kern County

LOCATION: 30 miles southwest of Bakersfield

TYPE OF TRAP: Sand pinchout on an anticlinal nose

ELEVATION: 1,975

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Eocene (27-12)	Standard Oil Co. of Calif. "KCL 69" 27-12	Standard Oil Co. of Calif. "KCL" 27-12	12 10N 22W	SB	337	1,288	Nov 1967

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL 69" 68-11	Same	Jan 1968	11 10N 22W	SB	11,069	Tejon	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu))	Salinity of zone water (gr/gal)	Class BOPE required
			Age	Formation			
Eocene (27-12)	8,660	60	late Eocene	Tejon	46	1,500	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	57,529	469,826	56,627	1968	2	1	40

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,200

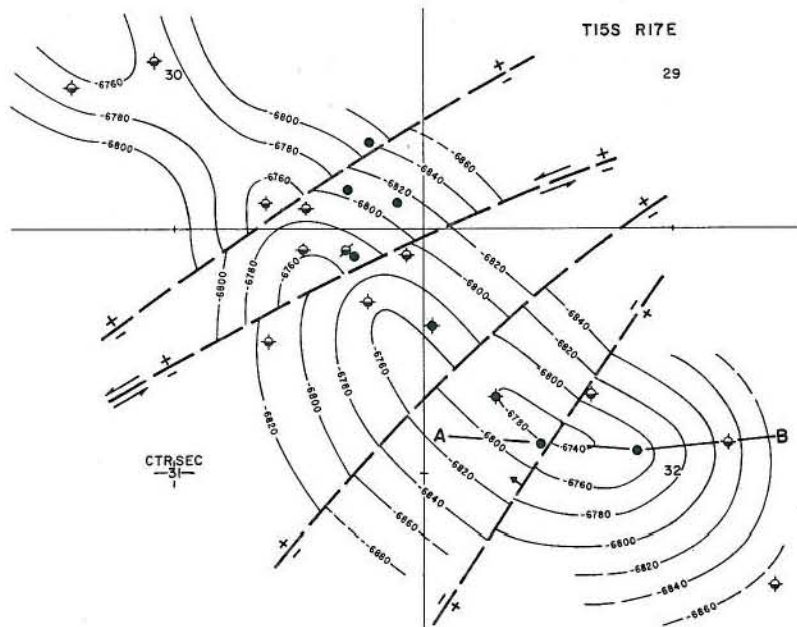
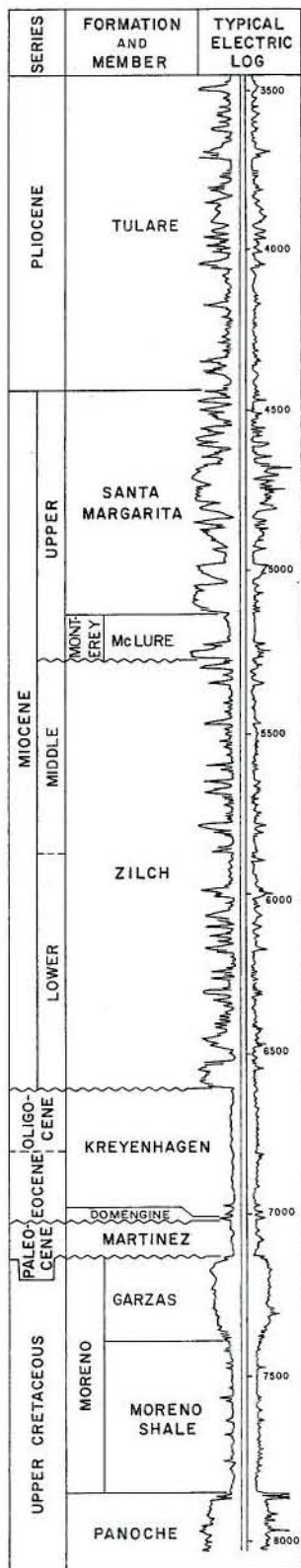
CURRENT CASING PROGRAM: 10 3/4" cem. 750; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

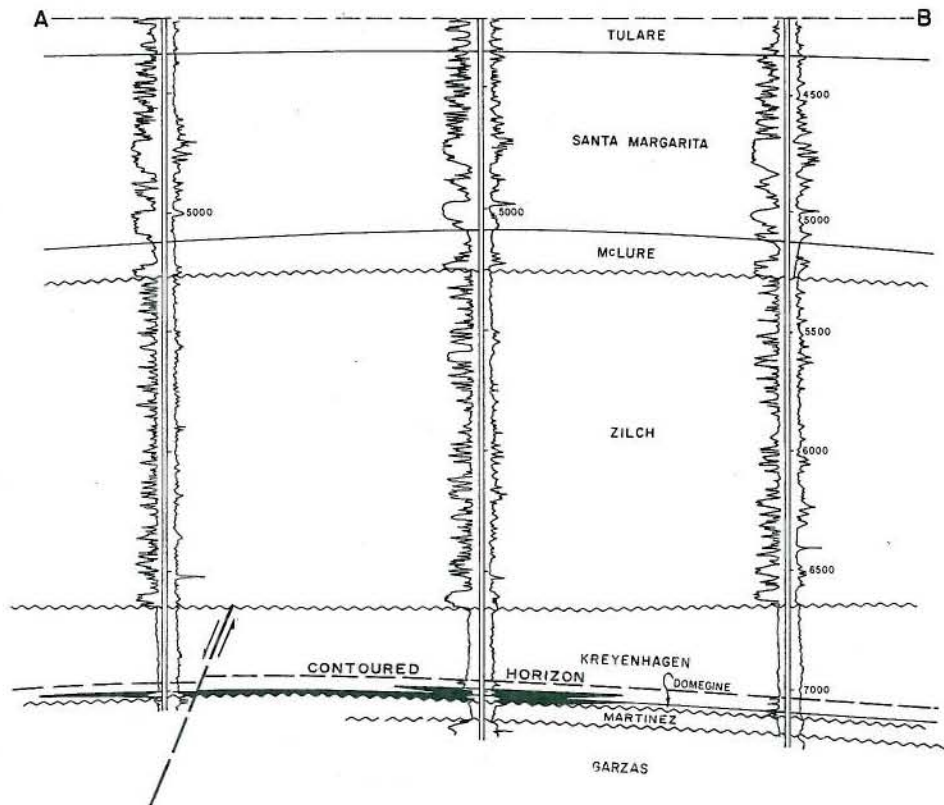
REMARKS: The last production from the field was in November 1968.

REFERENCES:

# SAN JOAQUIN OIL FIELD



CONTOURS ON A MARKER IN THE KREYENHAGEN SHALE  
SCALE: 1" = 2000'





## CALIFORNIA DIVISION OF OIL AND GAS

SAN JOAQUIN OIL FIELD

Fresno County

LOCATION: 22 miles southwest of Fresno

TYPE OF TRAP: Lenticular sands on a faulted anticline

ELEVATION: 175

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Eocene	John MacKessy "Hakala" 55-32	The Superior Oil Co. "Hakala" 55-32	32 15S 17E	MD	144	64	Mar 1947

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "R.S. Brackney" 68-30	Same	Jul 1944	30 15S 17E	MD	8,045	Panoche	Late Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Eocene	7,000	40	Eocene and Paleocene	Kreyenhagen, Domengine and Martinez	30	1,230	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
21,000	0	171,008	70	6	886,944	229,589	135,826	1949	17	8	180

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,050 - 1,150

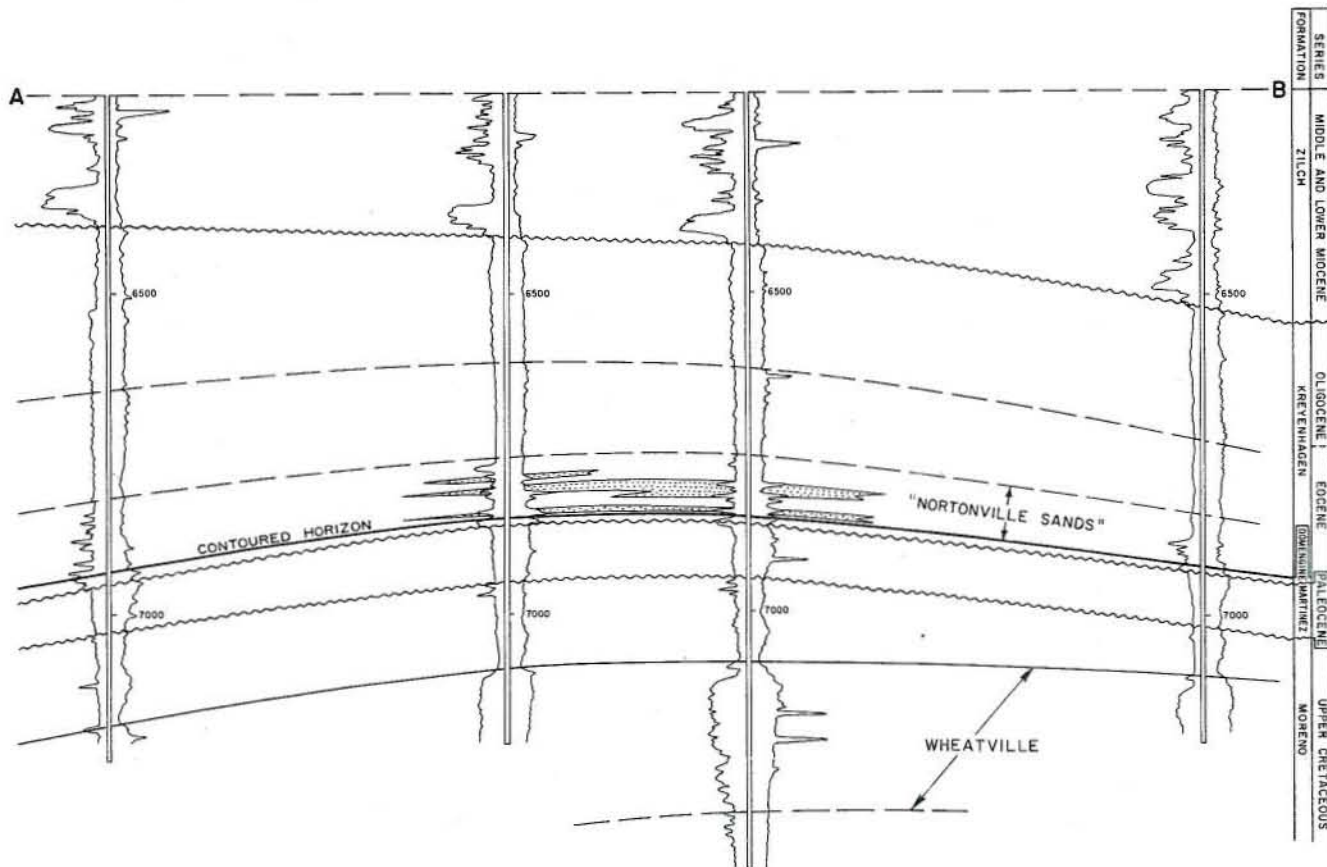
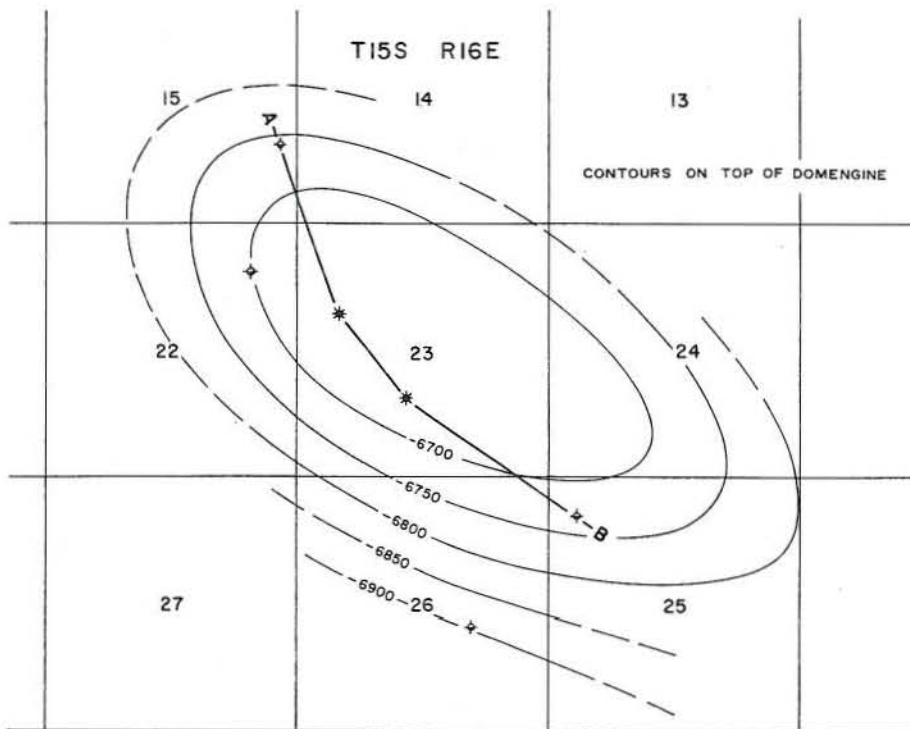
CURRENT CASING PROGRAM: 9 5/8" cem. 600; 5 1/2" cem. through the zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: All water is injected.

REMARKS:

REFERENCES: Hunter, G.W., San Joaquin Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 1 (1956).

# NORTHWEST SAN JOAQUIN GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

SAN JOAQUIN, NORTHWEST, GAS FIELD

Fresno County

LOCATION: 24 miles southwest of Fresno

TYPE OF TRAP: Anticline

ELEVATION: 170

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Nortonville	Texaco Inc. "Teed" 1	Same as present	23 15S 16E	MD	1,950	2,250	3/16	Nov 1965

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Oct 1965	23 15S 16E	MD	7,400	Panoche	Lt Cret

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Nortonville	6,780	35	Eocene	Kreyenhagen	1,015	1,010	2,325	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
469,448	5,210	120	2	2,447,528	608,725	1971	6	2	120

SPACING ACT: Applies

BASE OF FRESH WATER: 1,050 - 1,150

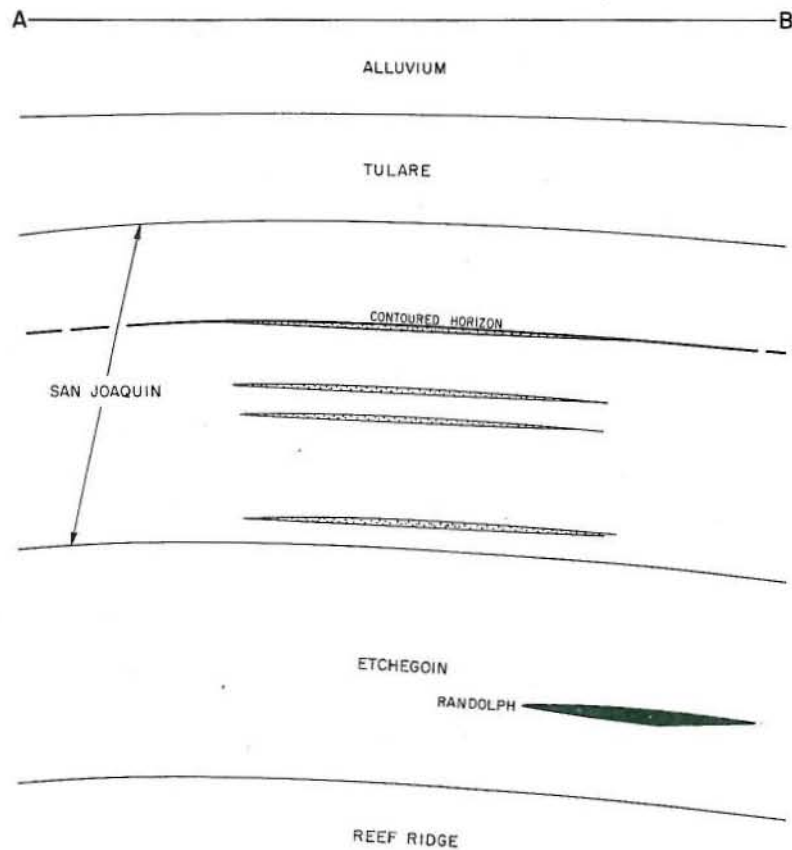
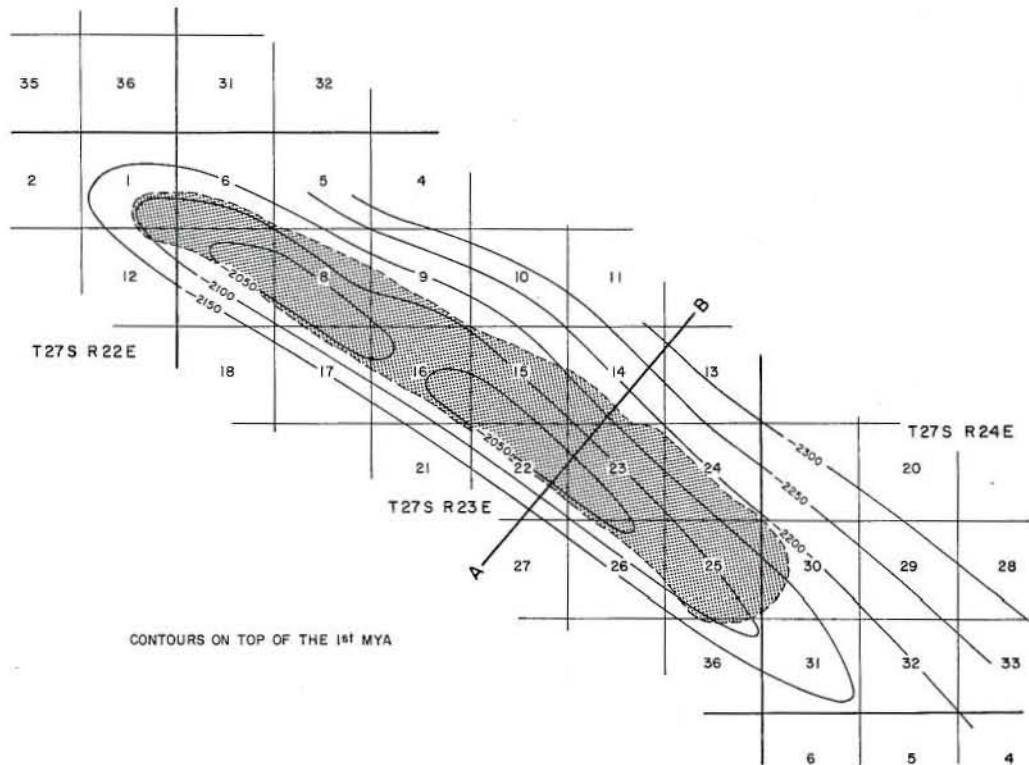
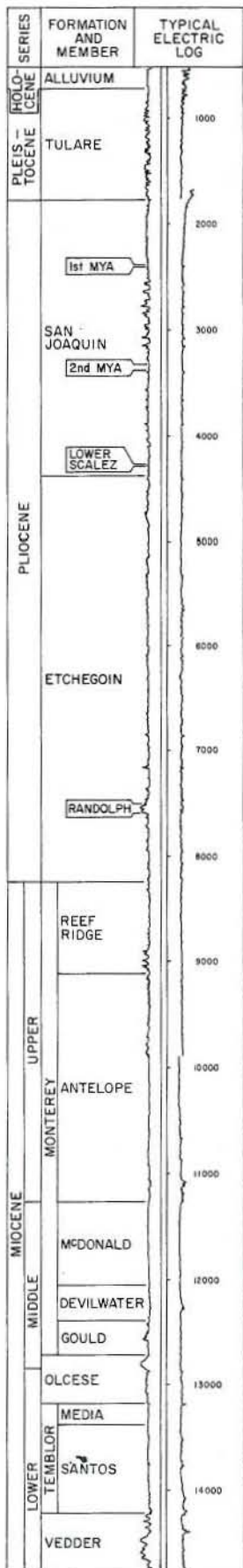
CURRENT CASING PROGRAM: 8 5/8" cem. 700; 4 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water trucked to Raisin City oil field and injected into water disposal well.

REMARKS: Gas deliveries commenced in February 1968.

REFERENCES: Hill, F.L., Northwest San Joaquin Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 55, No. 1 (1969).

# SEMITROPIC OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

SEMITROPIC OIL FIELD

Kern County

LOCATION: 25 miles northwest of Bakersfield

TYPE OF TRAP: Asymmetrical anticline; lithofacies change

ELEVATION: 275

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
San Joaquin (Gas)	Standard Oil Co. of Calif. "Hill" 1	Same as present	8 27S 23E	MD	0	100,000	Mar 1935
Randolph	Supreme Oil and Gas Corp. "Elizabeth G. Williams et al" 1	Humble Oil & Refg. Co. "Elizabeth G. Williams et al" 1	24 27S 23E	MD	39	30	Jun 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Standard-Fullerton" 1	Same	Apr 1944	25 27S 23E	MD	14,770	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (-API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
San Joaquin (Gas)	2,200 - 4,400	5 - 15	Pliocene	San Joaquin	990	1,980	III
Randolph	7,400	100	Pliocene	Etchegoin	28	1,150	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
17,826	6,576	5,164	70	6	367,146	261,939	43,169	1965	10	7	70

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 500

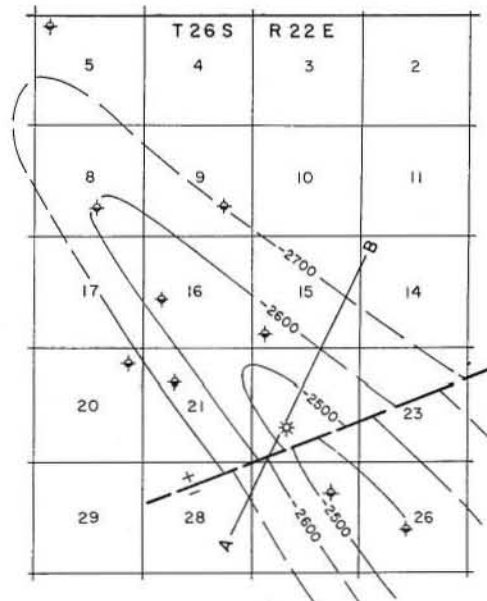
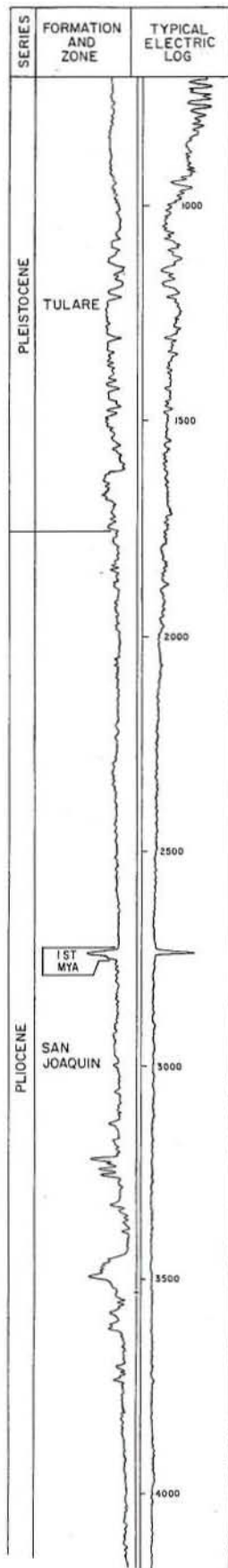
CURRENT CASING PROGRAM: Gas zone: 9 5/8" cem. 550; 5 1/2" cem. through zone. Oil zone: 9 5/8" cem. 800; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Waste water is trucked to a disposal well in McClung field.

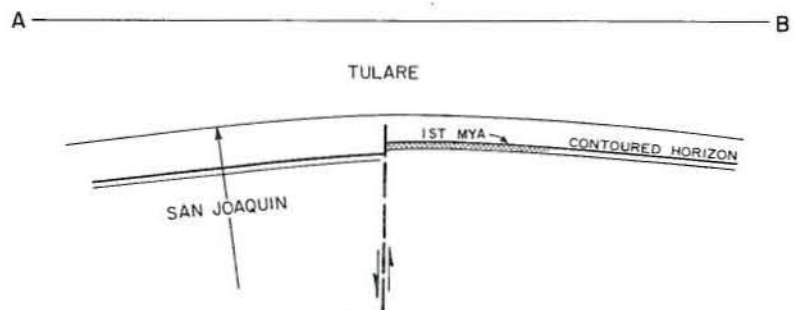
REMARKS: Formerly known as Semitropic Gas Field. 1972 dry gas production 79,014 Mcf from one producing well; cumulative dry gas production 16,034,172 Mcf; current proved acreage 920, maximum proved acreage 3,980; 72 wells were drilled for dry gas and 30 wells were completed.

REFERENCES: Kaplow, E.J., Gas Fields of Southern San Joaquin Valley: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 24, No. 1 (1938).

# NORTHWEST SEMITROPIC GAS FIELD (Abandoned)



CONTOURS ON TOP OF 1ST MYA SAND



# CALIFORNIA DIVISION OF OIL AND GAS

SEMITROPIC, NORTHWEST, GAS FIELD (Abandoned)

Kern County

LOCATION: 38 miles northwest of Bakersfield

TYPE OF TRAP: Faulted anticline

ELEVATION: 230

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
1st Mya	Texaco Inc. "BLH Gas Unit One" 1	Same as present	22 26S 22E	MD	835	870	1/8	Mar 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Feb 1961	22 26S 22E	MD	3,058	San Joaquin	Pliocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
1st Mya	2,740	10	Pliocene	San Joaquin	1,010	2,000	840	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	51,870	26,480	1962	1	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100

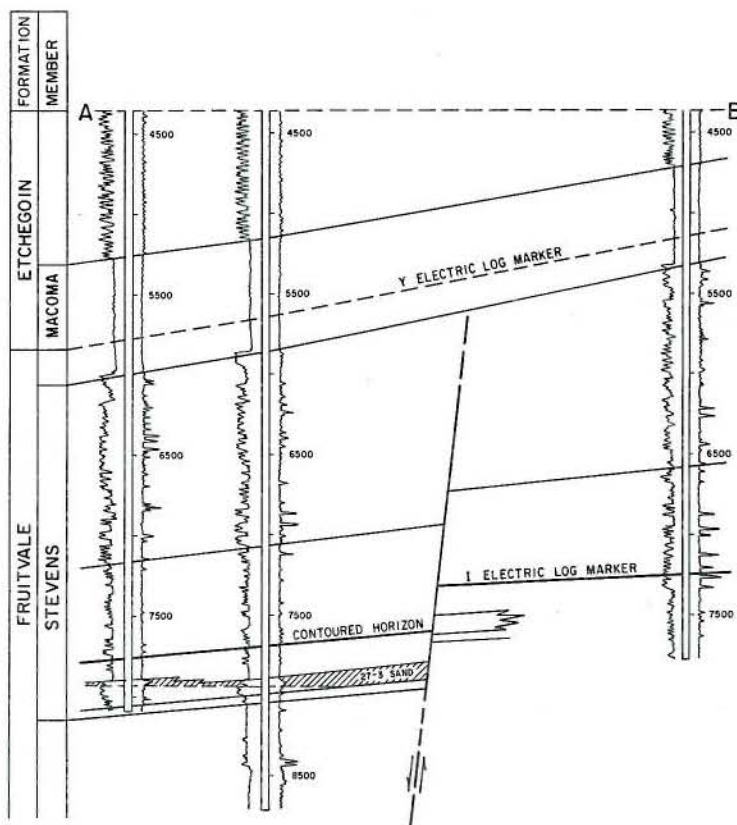
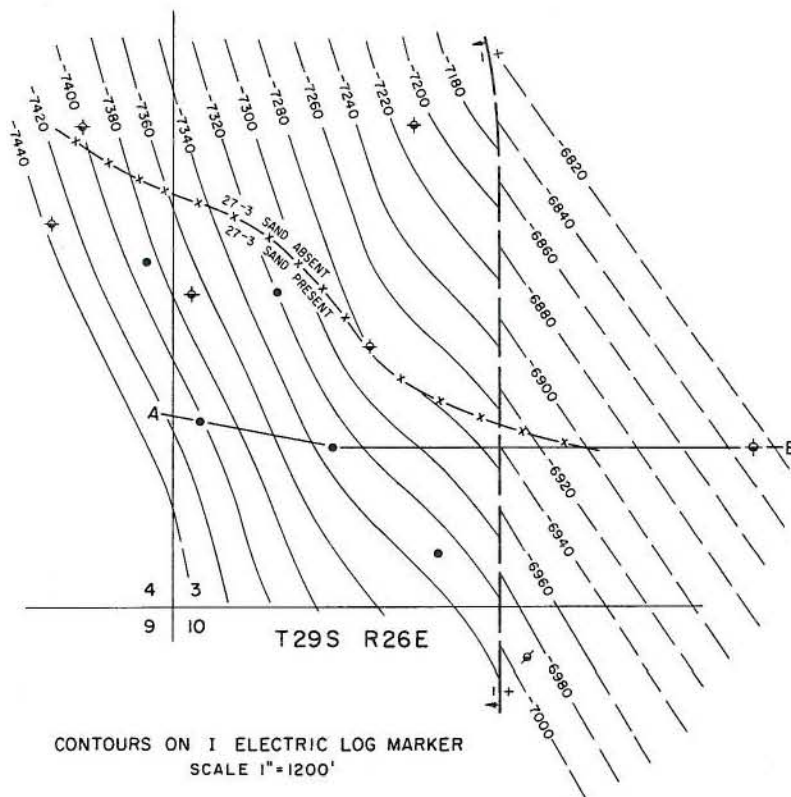
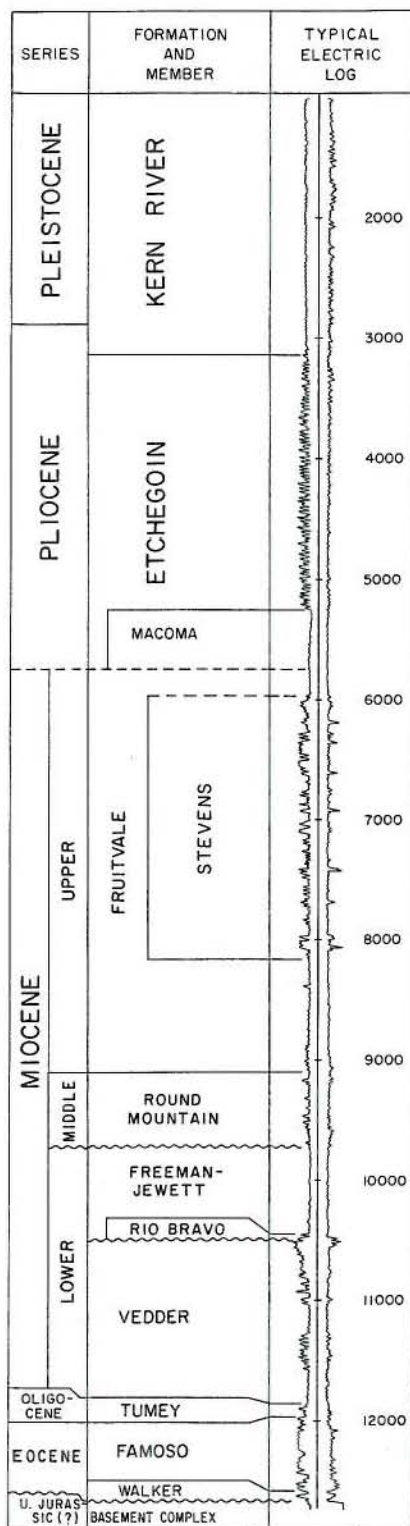
CURRENT CASING PROGRAM: 7" cem. 500; 2 7/8" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The only well in the field was abandoned in July 1966.

REFERENCES:

# SEVENTH STANDARD OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

SEVENTH STANDARD OIL FIELD

Kern County

LOCATION: 9 miles northwest of Bakersfield

TYPE OF TRAP: Faulted homocline with lithofacies variation

ELEVATION: 355

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Stevens ("27-3" sand)	Standard Oil Co. of Calif. "KCL 67" 27-3	Same as present	3 29S 26E	MD	316	156	Dec 1966

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Nov 1966	3 29S 26E	MD	8,720	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Stevens ("27-3" sand)	7,900	30	late Miocene	Fruitvale	27	1,750	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
96,724	51,303	450,074	50	4	1,133,055	591,210	215,080	1967	9	5	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,000

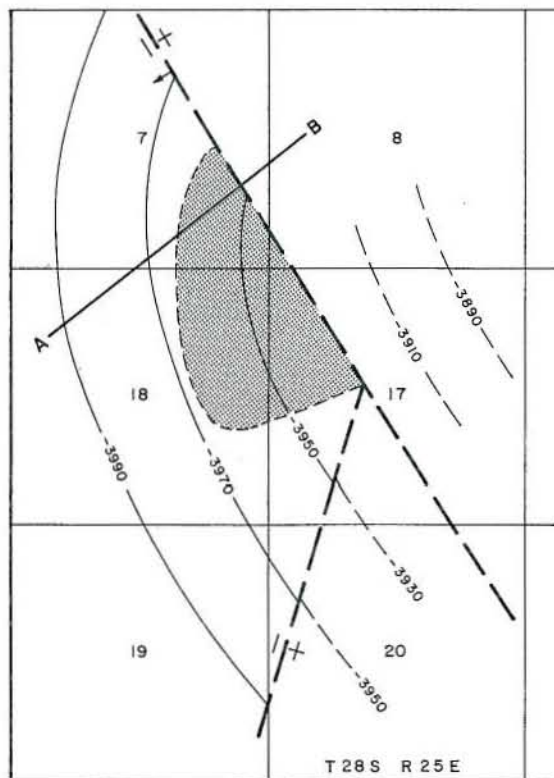
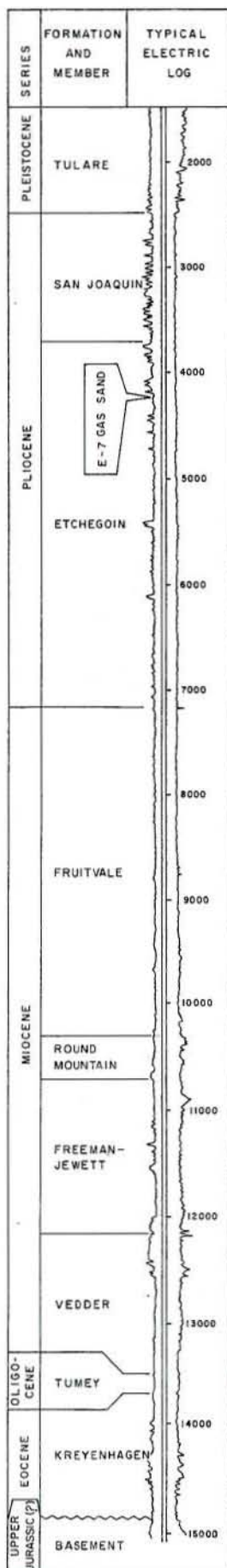
CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: All waste water is injected into the Etchegoin formation. Cumulative injection totals 2,019,707 bbls.

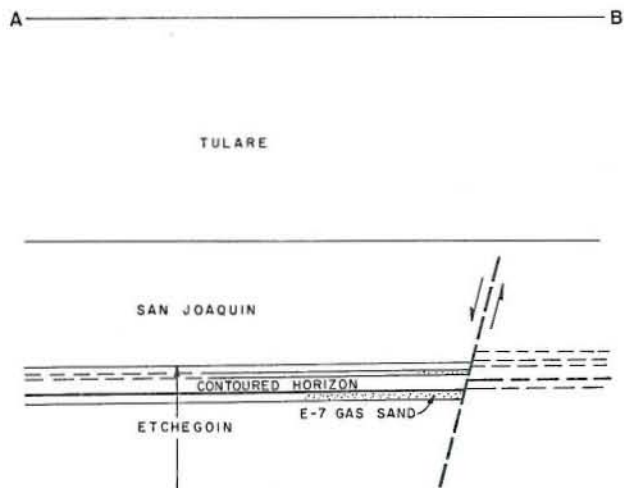
REMARKS:

REFERENCES: Kohlbush, R.L., Seventh Standard Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 2 (1968).

# SHAFTER GAS FIELD



CONTOURS ON TOP OF E-7 GAS SAND



# CALIFORNIA DIVISION OF OIL AND GAS

SHAFTER GAS FIELD

Kern County

LOCATION: 20 miles northwest of Bakersfield

TYPE OF TRAP: Faulted anticline

ELEVATION: 330

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
Etchegoin (E-7)	Getty Oil Co. "Loepp" 63-18	Tide Water Associated Oil Co. "Loepp" 63-18	1 28S 25E	MD	5,400	1,690	1/2	Dec 1954

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Exxon Corp. "George W. Watson et ux" 1	Humble Oil & Rfg. Co. "George W. Watson et ux" 1	Sep 1961	17 28S 25E	MD	12,864	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Etchegoin (E-7)	4,300	25	Pliocene	Etchegoin	1,015	2,300	1,690	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	35	0	2,130,544	743,392	1957	7	3	95

SPACING ACT: Applies

BASE OF FRESH WATER: 1,500

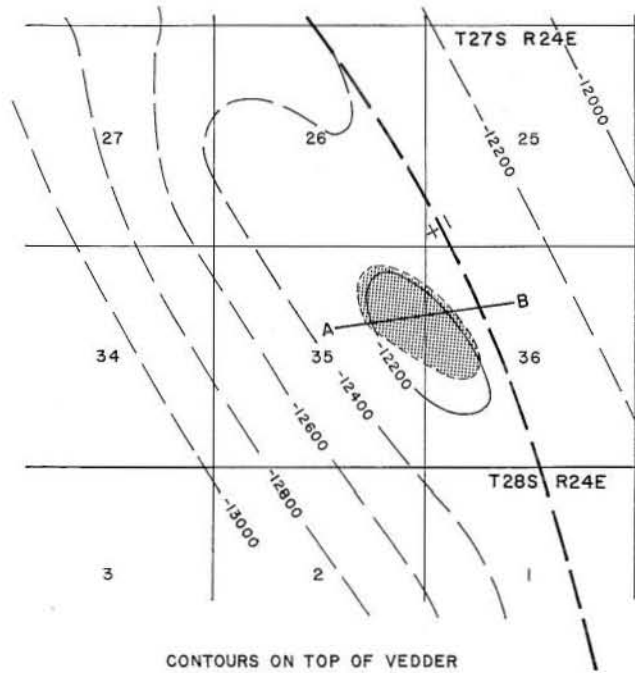
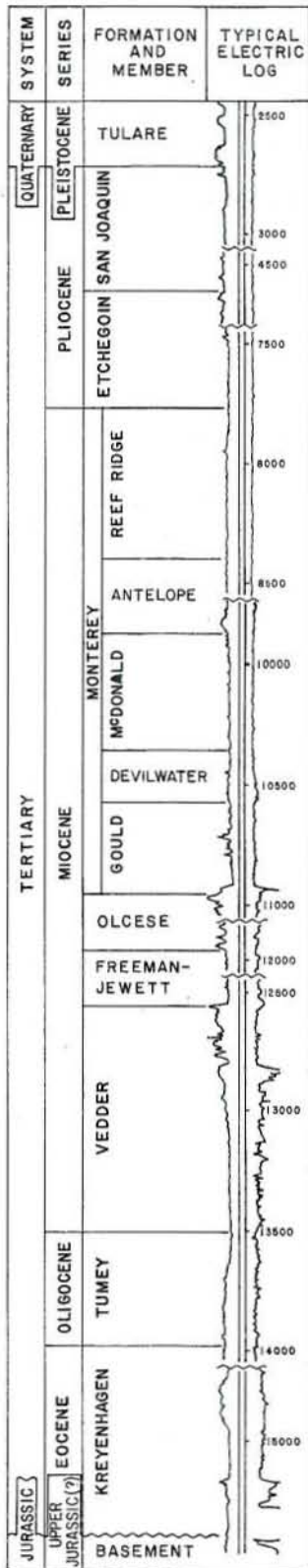
CURRENT CASING PROGRAM: 10 3/4" cem. 500; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The most recent production from the field was in 1968.

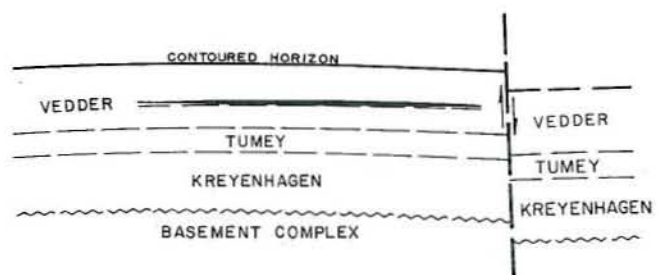
REFERENCES:

# SHAFTER OIL FIELD (Abandoned)



A ————— B

TULARE THROUGH FREEMAN-JEWETT





# CALIFORNIA DIVISION OF OIL AND GAS

SHAFTER OIL FIELD (Abandoned)

Kern County

LOCATION: 22 miles northwest of Bakersfield

TYPE OF TRAP: Anticline

ELEVATION: 330

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Vedder	Continental Oil Co. "K.C.L." C-2	Same as present	35 27S 24E	MD	488	550	Sep 1941

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Jan 1941	35 27S 24E	MD	12,936	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Vedder	12,800	70	early Miocene	Vedder	38	1,400	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	54,651	45,600	21,259	1942	2	2	60

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
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SPACING ACT: Applies

BASE OF FRESH WATER: 1,500

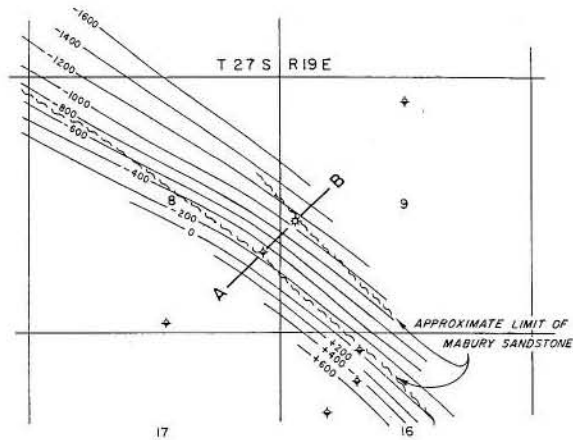
CURRENT CASING PROGRAM: 13 3/8" cem. 1,000; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL:

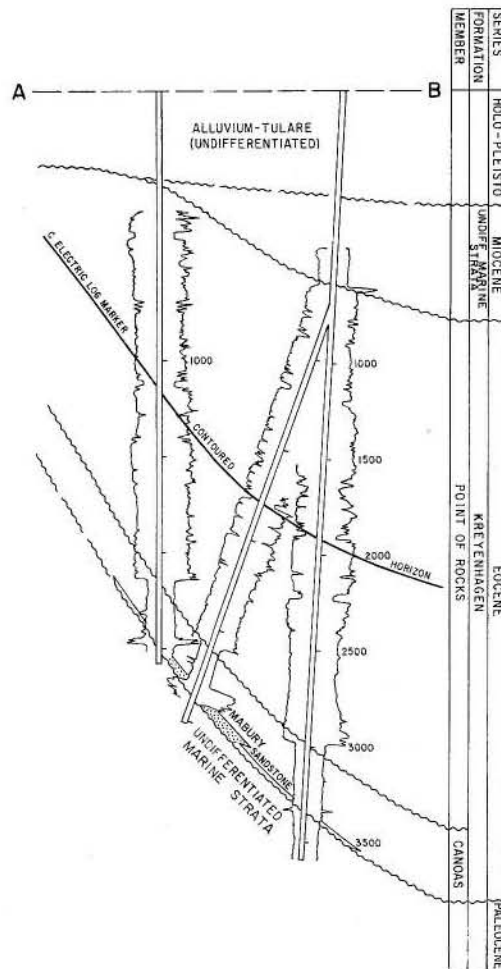
REMARKS: The last well in the field was abandoned in March 1965.

REFERENCES:

# SHALE FLATS GAS FIELD (Abandoned)



CONTOURS ON C ELECTRIC LOG MARKER



## CALIFORNIA DIVISION OF OIL AND GAS

SHALE FLATS GAS FIELD (Abandoned)

Kern County

LOCATION: 41 miles northwest of Taft

TYPE OF TRAP: Lithofacies change on a homocline

ELEVATION: 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Mabury	Shell Oil Co. "Unit" 15	Same as present	9 27S 19E	MD	4,200	1,020	7/16	Jul 1960

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Mercantile" 1	Standard Oil Co. "Mercantile" 1	May 1916	8 27S 19E	MD	4,050	Undiff. marine	Paleocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Mabury	2,800	100	Eocene	Kreyenhagen	1,020	N.A.	1,200	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	153,679	128,313	1961	3	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: None

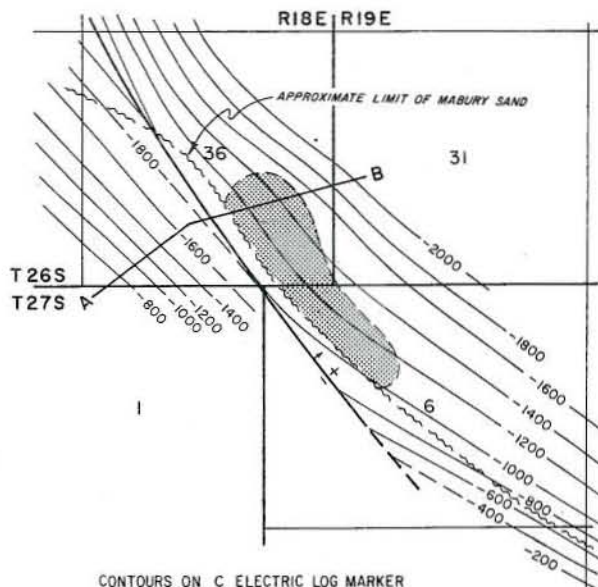
CURRENT CASING PROGRAM: 8 5/8" cem. 400; 4 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL:

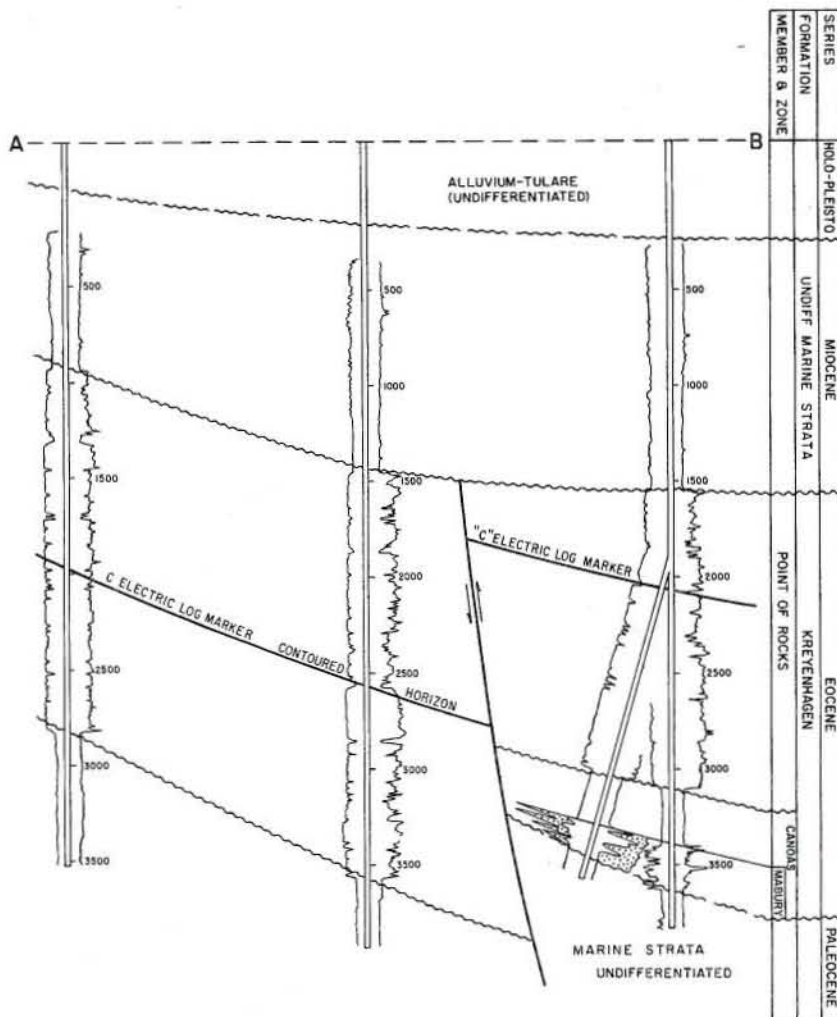
REMARKS: The only producing well in the field was abandoned in September 1969.

REFERENCES: Anderson, D.N., Shale Flats Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 2 (1966).

# SHALE POINT GAS FIELD (Abandoned)



CONTOURS ON C ELECTRIC LOG MARKER





## CALIFORNIA DIVISION OF OIL AND GAS

SHALE POINT GAS FIELD (Abandoned)

Kern County

LOCATION: 44 miles northwest of Taft

TYPE OF TRAP: Lithofacies change on a homocline

ELEVATION: 800

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Mabury	The Superior Oil Co. "Scherrer" 1	Beach, Church, & Bell "Scherrer" 1	36 26S 18E	MD	3,550	1,260	1/4	Aug 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
The Superior Oil Co. "Scherrer" 2	William M. Keck, Jr. "Scherrer" 2	Oct 1956	36 26S 18E	MD	3,754	Kreyenhagen	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Mabury	3,400	100	Eocene	Kreyenhagen	1,090	N.A.	1,260	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	1,740,321	541,764	1964	3	3	130

SPACING ACT: Applies

BASE OF FRESH WATER: None

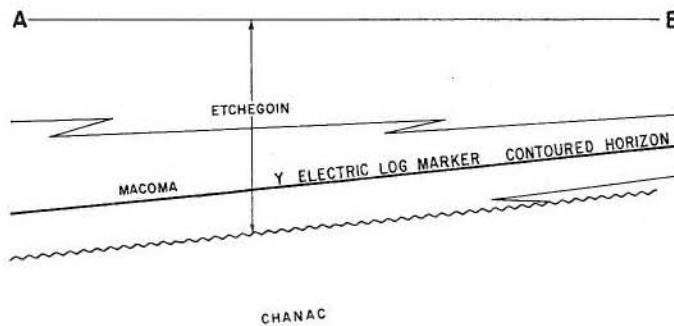
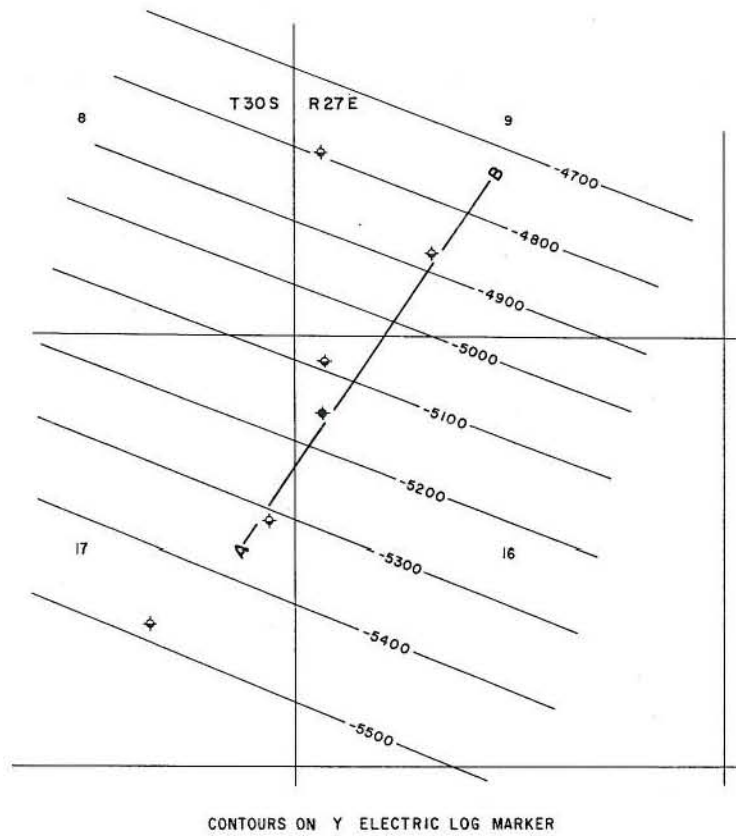
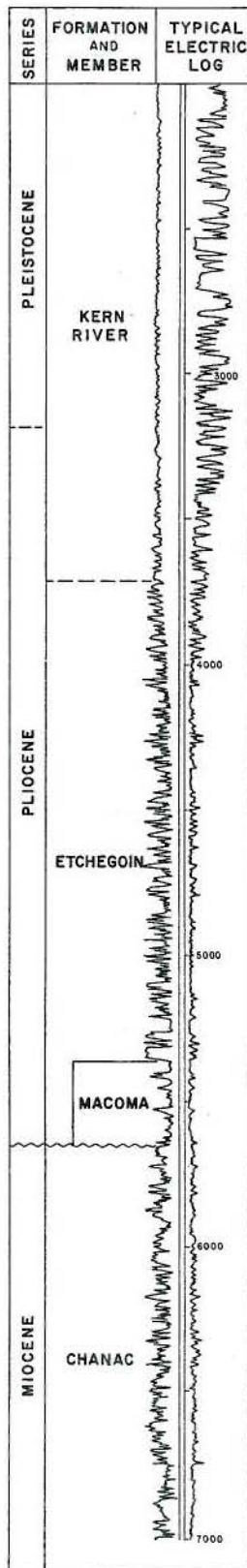
CURRENT CASING PROGRAM: 10 3/4" cem. 350; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: The last producing well in Shale Point Gas Field was abandoned in October 1969.

REFERENCES: Anderson, D.N., Shale Point Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52 No. 2 (1966).

# STOCKDALE OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

STOCKDALE OIL FIELD (Abandoned)

Kern County

LOCATION: 3 miles southwest of Bakersfield

TYPE OF TRAP: Sand pinchout on a homocline

ELEVATION: 365

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	Sherman F. Wagenseller and John J. August "W-A-M-S KCL" 12-16	Same as present	16 30S 27E	MD	98	N.A.	Jan 1962

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Nov 1961	16 30S 27E	MD	7,003	Chanac	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	6,350	20	late Miocene	Chanac	26	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

Oil (bbl)	1972 Production		1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	1,016	0	1,016	1962	2	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,300

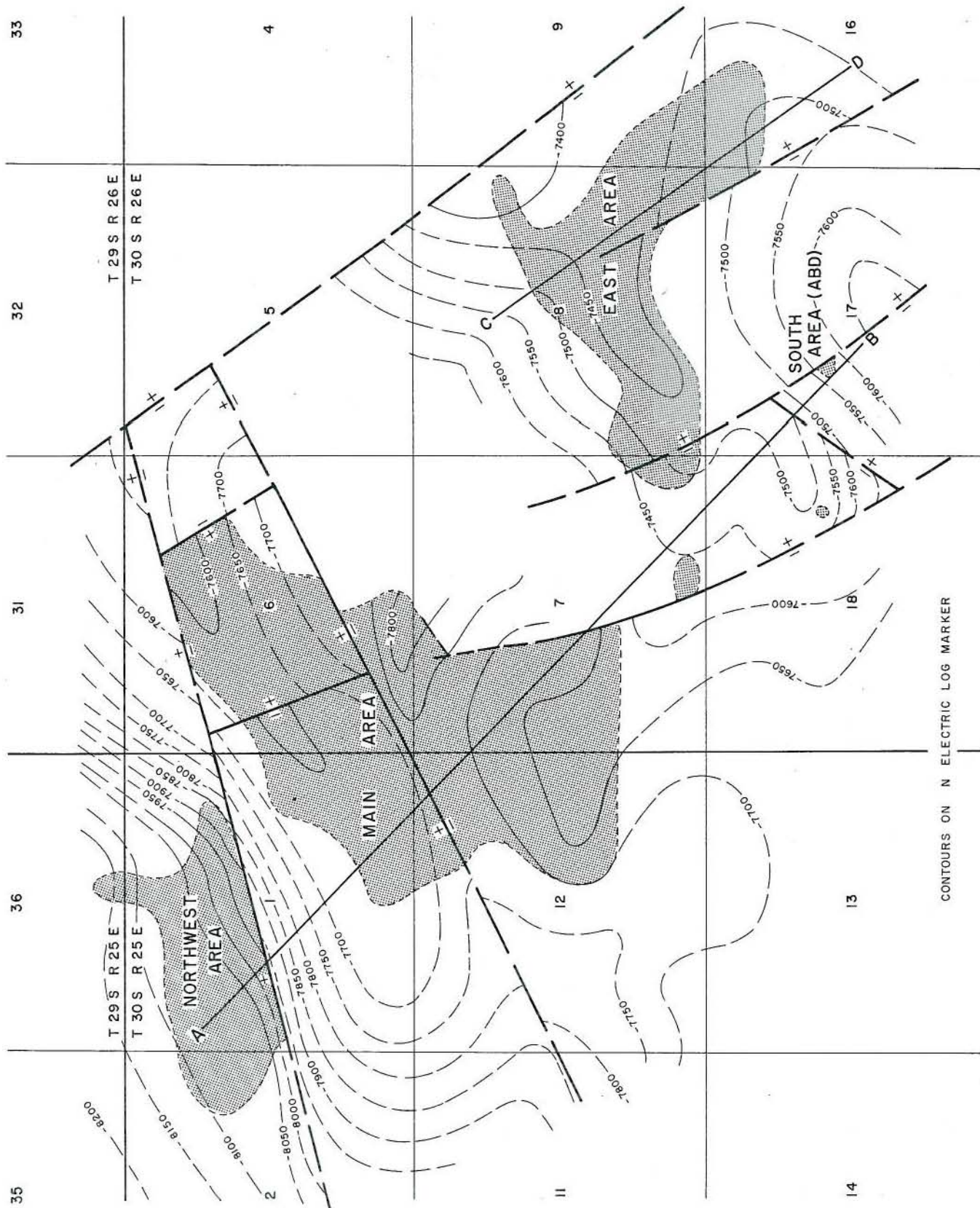
CURRENT CASING PROGRAM: 9 5/8" cem. 600; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The only producing well in the field was abandoned in October 1962.

REFERENCES:

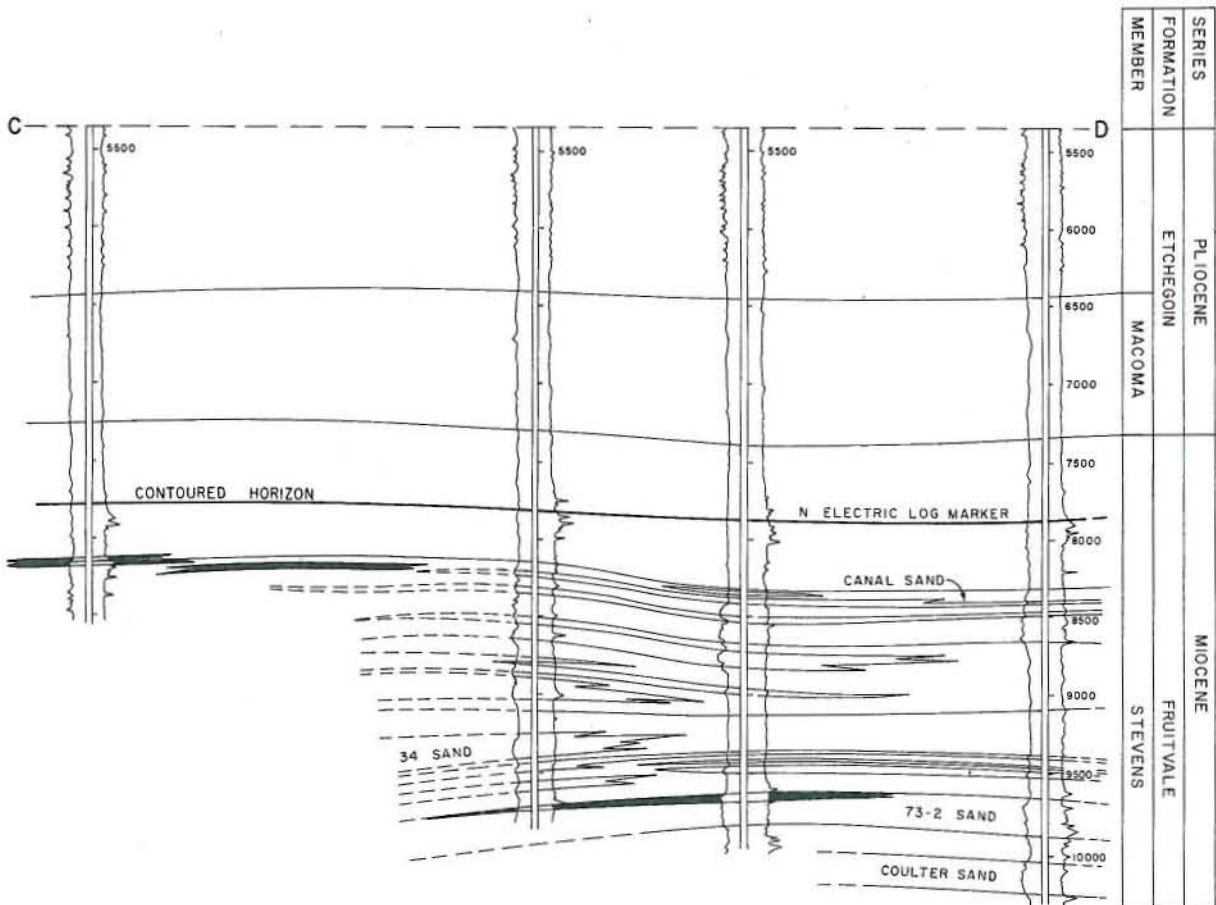
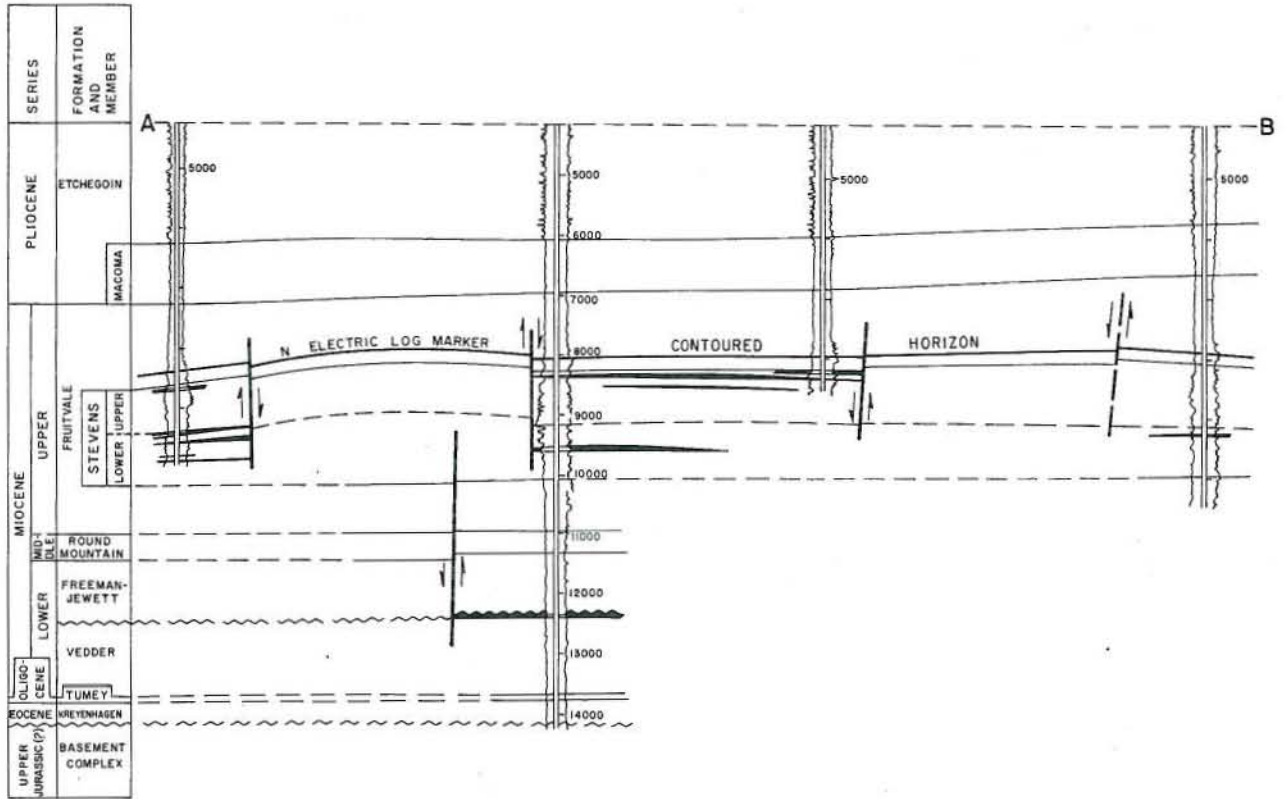
# STRAND OIL FIELD



CONTOURS ON N ELECTRIC LOG MARKER



# STRAND OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

STRAND OIL FIELD

Kern County

LOCATION: 12 miles southwest of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 340

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Tenneco West, Inc. No. 35	Tide Water Associated Oil Co. "KCL-E" 35-7	7 30S 26E	MD	1,130	800	Jun 1939

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco West, Inc. No. 1	Shell Oil Co. "Posuncula" 1	Dec 1954	12 30S 25E	MD	14,224	Basement	Late Jur

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Main and Northwest Areas)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
496,815	411,803	982,748	885	29	20,174,221	16,132,951	1,753,667	1956	125	97	1,240

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.

# CALIFORNIA DIVISION OF OIL AND GAS

EAST AREA

STRAND OIL FIELD

Kern County

LOCATION: See map sheet of Strand Oil Field

TYPE OF TRAP: Faulted anticlinal nose; lithofacies variations

ELEVATION: 340

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Tenneco West, Inc. No. 56	Tide Water Associated Oil Co. "KCL" 56-8	8 30S 26E	MD	1,368	N.A.	Jan 1943
Lower Stevens	Tenneco West, Inc. No. 83	Shell Oil Co. "KCL" 83-8	8 30S 26E	MD	115	80	Aug 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL 66" 32-16	Same	Jan 1966	16 30S 26E	MD	10,395	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Stevens	8,150	10 - 25	late Miocene	Fruitvale	35	1,200	III
Lower Stevens	9,770	85	late Miocene	Fruitvale	33	1,200	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
48,804	48,691	191,385	210	8	4,205,888	3,468,483	261,444	1945	38	20	270

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

CURRENT CASING PROGRAM: 10 3/4" cem. 600 - 900; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water is injected into the Upper Stevens and piped to disposal systems in other areas of the field.

REMARKS:

REFERENCES: Campbell, G.E., Southeast Portion of East Area--Strand Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 56, No. 1 (1970).  
Matthews, J.F. Jr., Strand Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 1 (1960).

## CALIFORNIA DIVISION OF OIL AND GAS

STRAND OIL FIELD

MAIN AREA

Kern County

LOCATION: See map sheet of Strand Oil Field

TYPE OF TRAP: Lithofacies variations on faulted anticlinal noses

ELEVATION: 340

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens Lower Stevens Vedder	Tenneco West, Inc. No. 35	Tide Water Associated Oil Co. "KCL-E" 35-7	7 30S 26E	MD	1,130	800	Jun 1939
	Thomas Oil Co. "Shell-Ohio KCL-A" 73X-12	Shell Oil Co. "Shell-Ohio KCL A" 73X-12	12 30S 25E	MD	528	433	Sep 1955
	Tenneco West, Inc. No. 1	Shell Oil Co. "Posuncula" 1	12 30S 25E	MD	1,810	1,380	Jun 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco West, Inc. No. 1	Shell Oil Co. "Posuncula" 1	Dec 1954	12 30S 25E	MD	14,224	Basement	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Stevens	8,200 - 8,500	15 - 40	late Miocene	Fruitvale	34	2,050	III
Lower Stevens	9,500	40	late Miocene	Fruitvale	33	2,050	III
Vedder	12,450	25	early Miocene	Vedder	38	880	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
356,811	321,378	680,904	445	16	14,110,254	11,383,990	1,567,559	1956	70	63	710

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

CURRENT CASING PROGRAM: Stevens: 8 5/8" cem. 1,000; 5 1/2" cem. through zone and across base of fresh-water sands. Vedder: 9 5/8" cem. 2,000; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water is injected into the San Joaquin and Etchegoin formations and piped to Canal field for use in a water flood.

REMARKS: The dry gas zone was abandoned in 1966; cumulative dry gas production 18,518 Mcf; one dry gas well drilled and completed.

REFERENCES: Matthews, J.F. Jr., Strand Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 1 (1960).



# CALIFORNIA DIVISION OF OIL AND GAS

NORTHWEST AREA

STRAND OIL FIELD

Kern County

LOCATION: See map sheet of Strand Oil Field

TYPE OF TRAP: Faulted homocline; lithofacies variations

ELEVATION: 335

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Tenneco West, Inc. No. 13	Standard Oil Co. of Calif. "KCL" 13-1	1 30S 25E	MD	*328	*297	Jun 1964
Lower Stevens	E.A. Bender Opr. "Smith" 73-2	Union Oil Co. of Calif. "Smith" 73-2	2 30S 25E	MD	110	N.A.	May 1956

Remarks: \* Commingled production from Upper and Lower Stevens.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tenneco West, Inc. No. 22	Standard Oil Co. of Calif. "KCL 56" 22-1	Dec 1964	1 30S 25E	MD	12,673	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Stevens	8,700	40	late Miocene	Fruitvale	36	N.A.	III
Lower Stevens	9,740	70	late Miocene	Fruitvale	34	1,300	III

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
91,200	41,734	110,459	230	5	1,730,298	1,211,351	422,178	1965	16	13	250

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,800

CURRENT CASING PROGRAM: 10 3/4" cem. 1,000; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water is injected in Main and East Areas of Strand Oil Field.

REMARKS: 1972 dry gas production 56,744 Mcf from one producing well; cumulative dry gas production 69,705 Mcf. Only one well was drilled for dry gas. Effective January 1, 1961 administrative boundaries of Strand Oil Field were extended to include Northwest Strand area.

REFERENCES: Shea, D.N., Northwest Area of Strand Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 52, No. 1 (1966).

# CALIFORNIA DIVISION OF OIL AND GAS

SOUTH AREA (Abandoned)

STRAND OIL FIELD

Kern County

LOCATION: See map sheet of Strand Oil Field

TYPE OF TRAP: Lithofacies variation on a faulted anticlinal nose

ELEVATION: 340

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Lower Stevens	Shell Oil Co. "KCL" 34-17	Same as present	17 30S 26E	MD	596	372	Sep 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	Jul 1956	17 30S 26E	MD	10,486	Fruitvale	late Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Lower Stevens	9,240	30	late Miocene	Fruitvale	31	1,200	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	127,781	69,127	26,430	1956	1	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

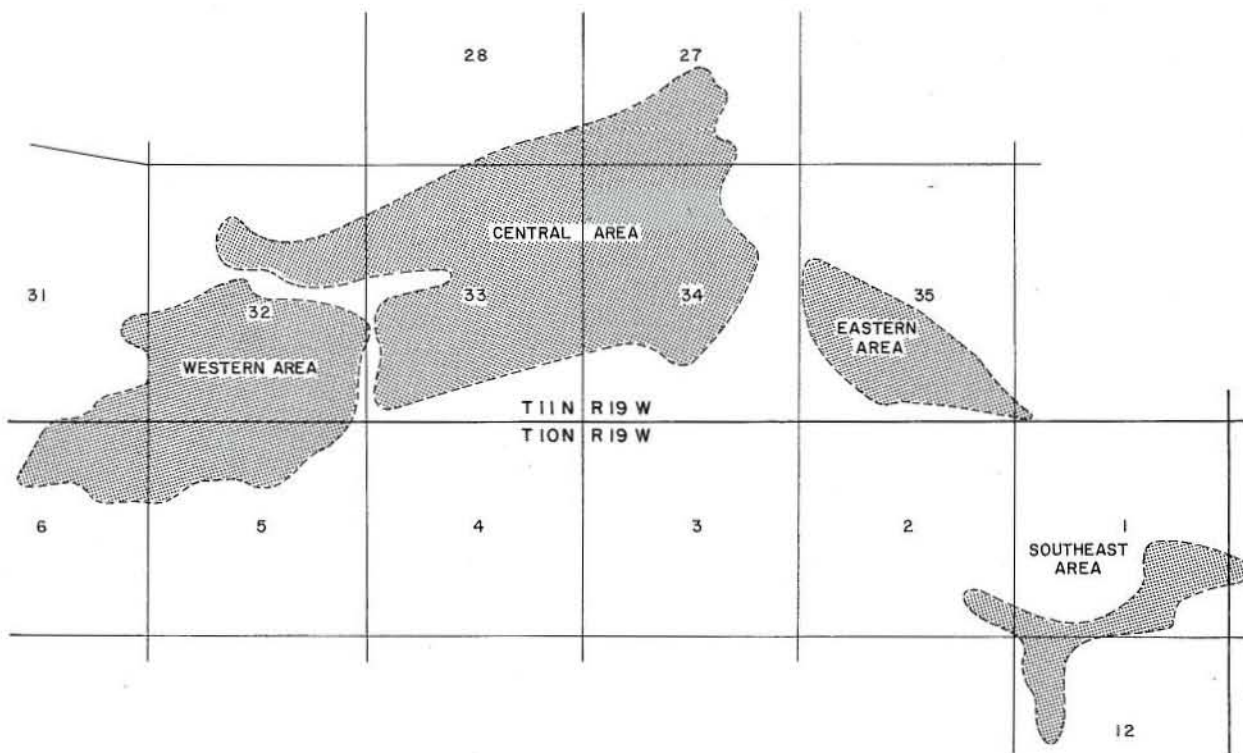
CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The only producing well in the area was abandoned in 1964.

REFERENCES: Matthews, J.F. Jr., Strand Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 1 (1960).

TEJON OIL FIELD  
INDEX MAP



# CALIFORNIA DIVISION OF OIL AND GAS

TEJON OIL FIELD

Kern County

LOCATION: 28 miles south of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 1,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
2-1 sand	Reserve Oil and Gas Co. No. 2-1	Reserve Oil and Gas Co. "Tejon Ranch" 1	2 10N 19W	SB	55	0	Jun 1935

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Chanslor-Western Oil & Dev. Co. No. 4-1-32	Standard Oil Co. of Calif. "CCMO 4" 35	Mar 1953	32 11N 19W	SB	13,239	Tejon	late Eo

## PRODUCING ZONES (See Areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
457,341	99,736	3,422,841	1,370	152	27,340,135	18,244,296	2,885,306	1955	355	290	2,095

## STIMULATION DATA (Jan. 1, 1973) (See Areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

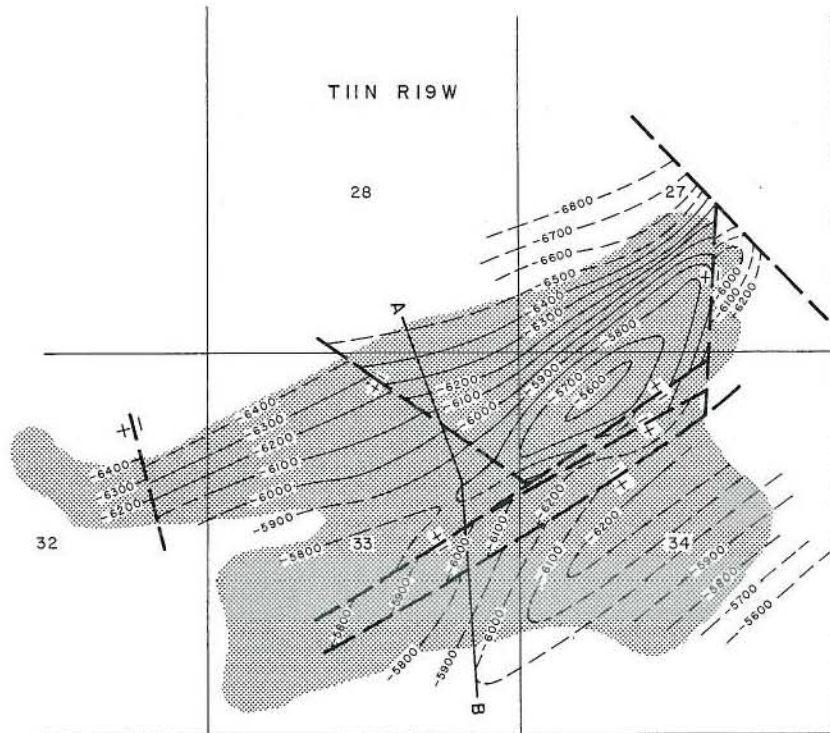
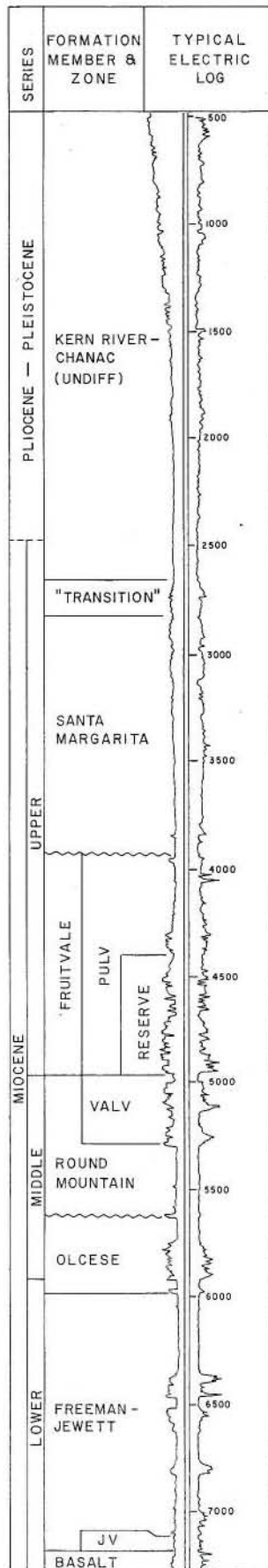
REMARKS:

REFERENCES: See areas.

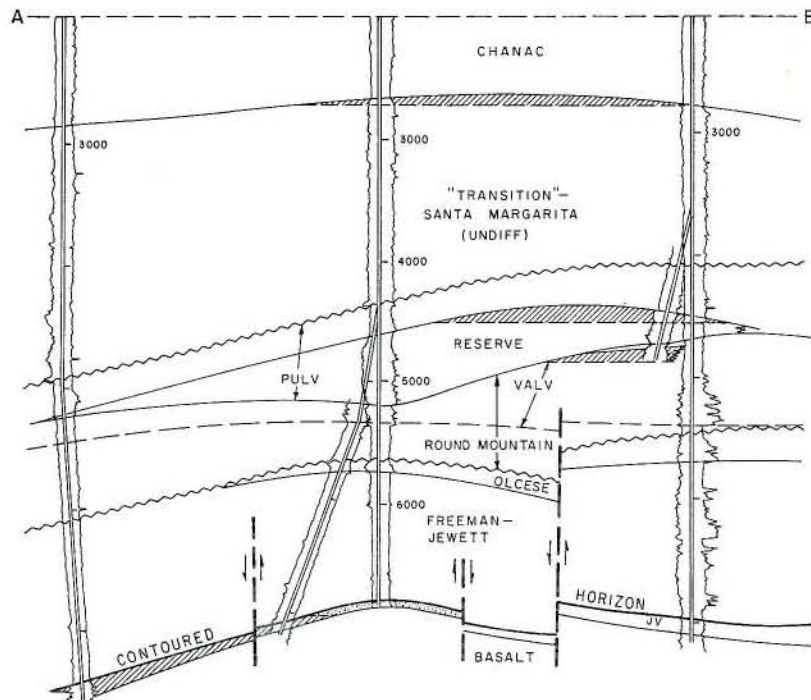


# TEJON OIL FIELD

## Central Area



CONTOURS ON TOP OF THE JV SAND



# CALIFORNIA DIVISION OF OIL AND GAS

CENTRAL AREA

TEJON OIL FIELD

Kern County

LOCATION: See index map of Tejon Oil Field

TYPE OF TRAP: Faulted anticline with lateral variations in porosity and permeability

ELEVATION: 1,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
"Transition"	Woodland Oil Co., Opr. "Ridge Hill-Tejon" 34-3	M. Metzbaum No. 34-3	34 11N 19W	SB	0	1,500	Jul 1944
Santa Margarita	Reserve Oil and Gas Co. "Bright" 2	Rose L. Bright "Bright" 2	34 11N 19W	SB	200	N.A.	Apr 1950
Reserve	Reserve Oil and Gas Co. "Reserve-E.W. Pauley" 33-3	Reserve Oil and Gas Co. No. 33-3	33 11N 19W	SB	0	12,000	Jan 1937
Valv	Reserve Oil and Gas Co. "Reserve-E.W. Pauley" 58-33	Reserve Oil and Gas Co. No. 58-33	33 11N 19W	SB	0	3,000	Dec 1951
Olcese	Reserve Oil and Gas Co. "Reserve-E.W. Pauley" 42-34	Reserve Oil and Gas Co. No. 42-34	34 11N 19W	SB	477	360	May 1954
JV	Drilling & Production Co. "JV" 33-33	Same as present	33 11N 19W	SB	495	330	Dec 1954

Remarks: The discovery wells of "Transition", Reserve, and Valv zones were completed in the gas cap of the respective oil zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Reserve Oil and Gas Co. "Reserve-E.W. Pauley" 12-34	Same	Jul 1954	34 11N 19W	SB	11,687	Reed Canyon	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
"Transition"	2,725	85	late Miocene	"Transition"	17	15	None
Santa Margarita	2,900	100	late Miocene	Santa Margarita	18	15	None
Reserve	4,400	80	late Miocene	Fruitvale	23 - 28	250	III
Valv	4,650	80	m Miocene	Round Mountain	33	250	III
Olcese	5,600	170	m Miocene	Olcese	29	570	IV
JV	7,200	50	early Miocene	Freeman-Jewett	34 - 40	390	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
114,792	36,649	594,379	495	51	12,862,085	14,403,676	2,376,082	1955	148	132	1,045

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,600

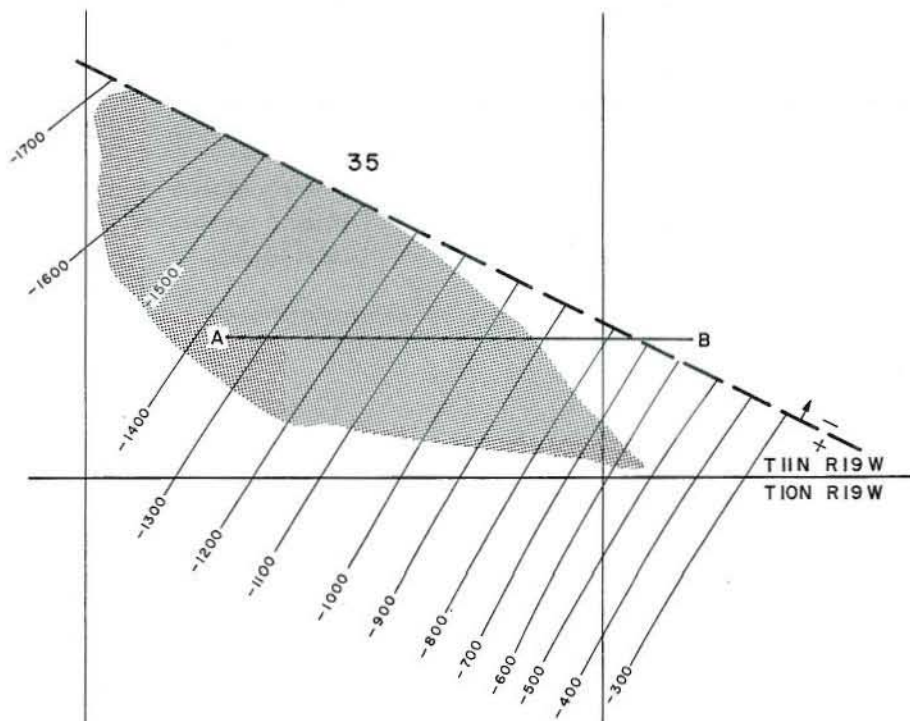
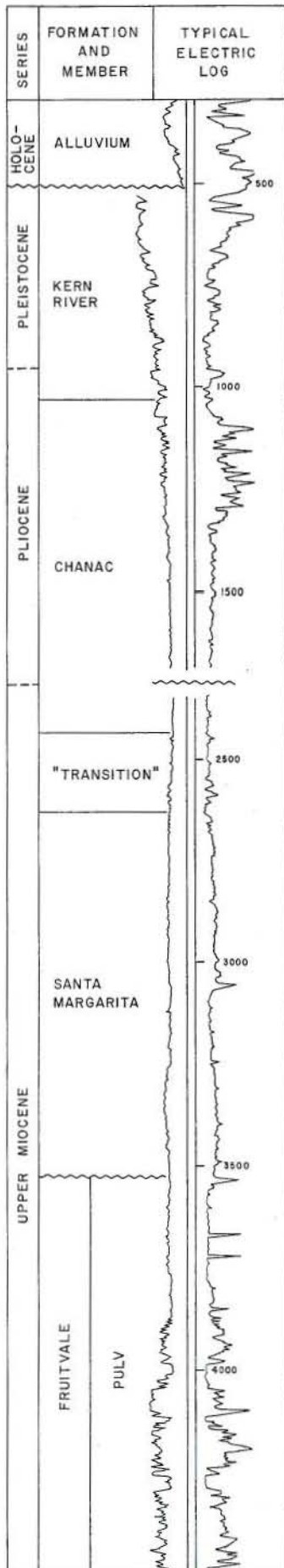
CURRENT CASING PROGRAM: Above Olcese: 11 3/4" or 10 3/4" cem. 450 or shallower; 8 5/8" or 7" cem. above zone 6 across base of fresh-water sands; 6 5/8" or 5 1/2" landed through zone. Olcese & deeper zones: 11 3/4" or 10 3/4" cem. 550 or deeper; 7" cem. through zone 6 across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: In 1972 waste water was either piped to Western Area for injection into a water flood project or disposed of into sumps.

REMARKS:

REFERENCES: Carls, J.M., Central Area of Tejon Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 42, No. 2 (1956).

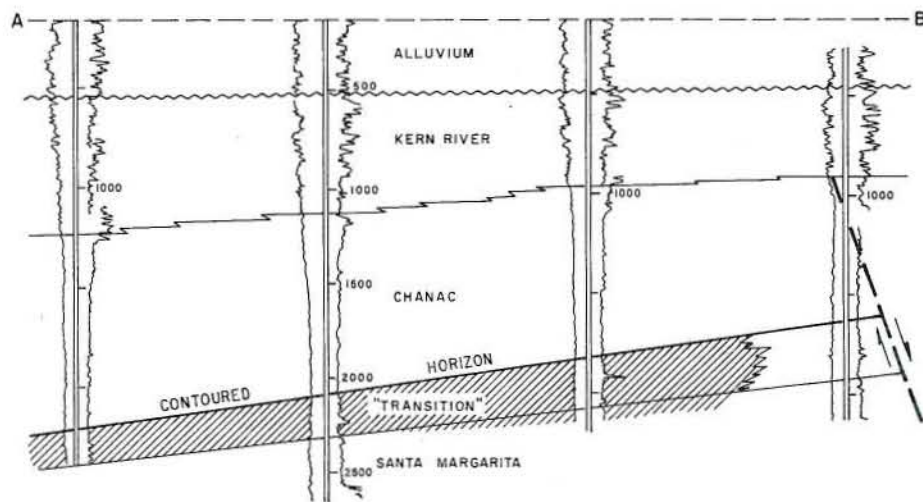
# TEJON OIL FIELD Eastern Area



2

CONTOURS ON TOP OF "TRANSITION"

SCALE 1" = 2000'





# CALIFORNIA DIVISION OF OIL AND GAS

EASTERN AREA

TEJON OIL FIELD

Kern County

LOCATION: See index map of Tejon Oil Field

TYPE OF TRAP: Faulted homocline with lithofacies variations.

ELEVATION: 930

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
"Transition" - Santa Margarita	Atlantic Richfield Corp. "Tejon A" 57-35	Richfield Oil Corp. "Tejon A" 57-35	35 11N 19W	SB	120	N.A.	Nov 1943

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Marathon Oil Co. "Title Insurance & Trust" 1	The Ohio Oil Co. "Title Insurance & Trust" 1	May 1936	36 11N 19W	SB	5,507	Tecuya (?)	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
"Transition" - Santa Margarita	2,000	150	late Miocene	"Transition" and Santa Margarita	18	40	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
22,102	1,639	76,767	195	18	1,442,879	292,107	118,690	1947	35	23	210

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1967	258,414	2

SPACING ACT: Applies

BASE OF FRESH WATER: 1,300

CURRENT CASING PROGRAM: 8 5/8" cem. above zone and across base of fresh water sands; 6 5/8" liner landed through zone.

METHOD OF WASTE DISPOSAL: In 1972 all of the waste water was injected into the water flood project.

REMARKS:

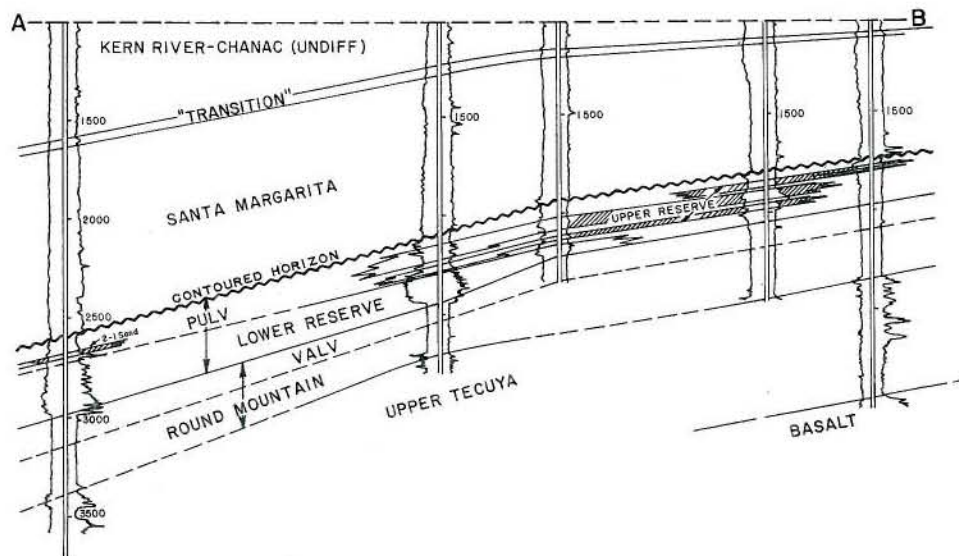
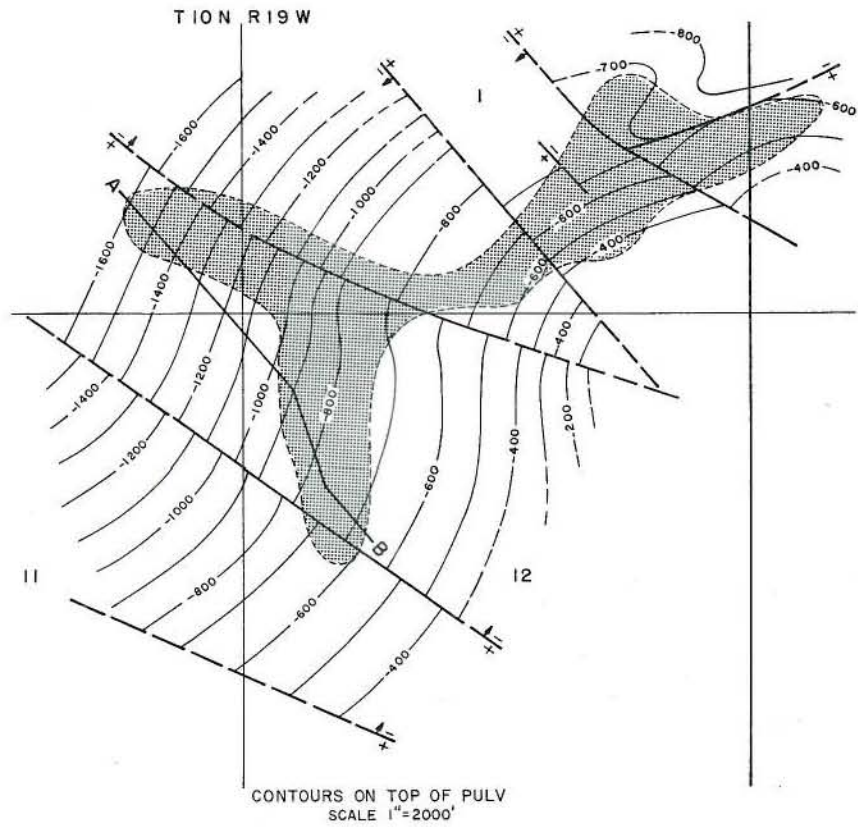
REFERENCES: Kasline, F.E., Tejon Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 34, No. 1 (1948).



# TEJON OIL FIELD

## Southeast Area

SERIES	FORMATION MEMBER & ZONE	TYPICAL ELECTRIC LOG
PLIOCENE- PLEISTOCENE	ALLUVIUM	
	CHANAC-KERN RIVER (UNDIFF)	
	"TRANSITION"	
	SANTA MARGARITA	
MIOCENE	FRUITVALE	
	RESERVE	
	VALV	
	ROUND MOUNTAIN	
	UPPER TECUYA	
	BASALT	
	LOWER TECUYA	
	VEDDER	
	SAN EMIGDIO	
	TEJON	
UPPER EOCENE	REED CANYON	
	METRALLA	
	LIVE OAK	



# CALIFORNIA DIVISION OF OIL AND GAS

SOUTHEAST AREA

TEJON OIL FIELD

Kern County

LOCATION: See index map of Tejon Oil Field

TYPE OF TRAP: Permeability variations on a faulted anticlinal nose

ELEVATION: 1,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
2-1 sand	Reserve Oil and Gas Co. No. 2-1 *	Reserve Oil and Gas Co. "Tejon Ranch" 1	2 10N 19W	SB	55	0	Jun 1935
Upper Reserve	Drilling & Production Co. No. 18A-1	B-K-S Oil Co. "F E P" 18A-1	1 10N 19W	SB	7	0	Mar 1951
Lower Reserve	Drilling & Production Co. No. 58A-1	Same as present	1 10N 19W	SB	90	16	Apr 1967

Remarks: \* This was the only well to obtain commercial production from the 2-1 zone. It was abandoned in 1936 after producing a total of 3,871 bbls. of oil. No further oil production from this area until March 1951 when B-K-S Oil Co. completed a well in the Upper Reserve zone.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "Tejon Ranch" 1	Richfield Oil Corp. "Tejon Ranch" 1	Mar 1940	2 10N 19W	SB	10,940	Live Oak	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
2-1 sand	2,670	20	late Miocene	Fruitvale	16	N.A.	None
Upper Reserve	1,810	20 - 190	late Miocene	Fruitvale	17	280	None
Lower Reserve	1,670	150 - 250	late Miocene	Fruitvale	23	280	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
177,751	38,658	493,299	140	21	1,053,208	186,575	191,958	1970	53	24	155

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,100 - 1,700

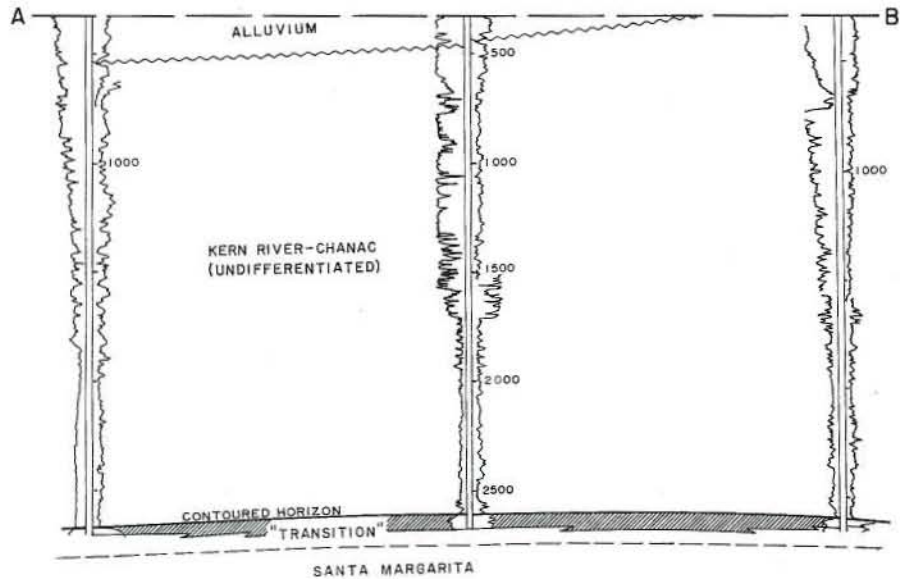
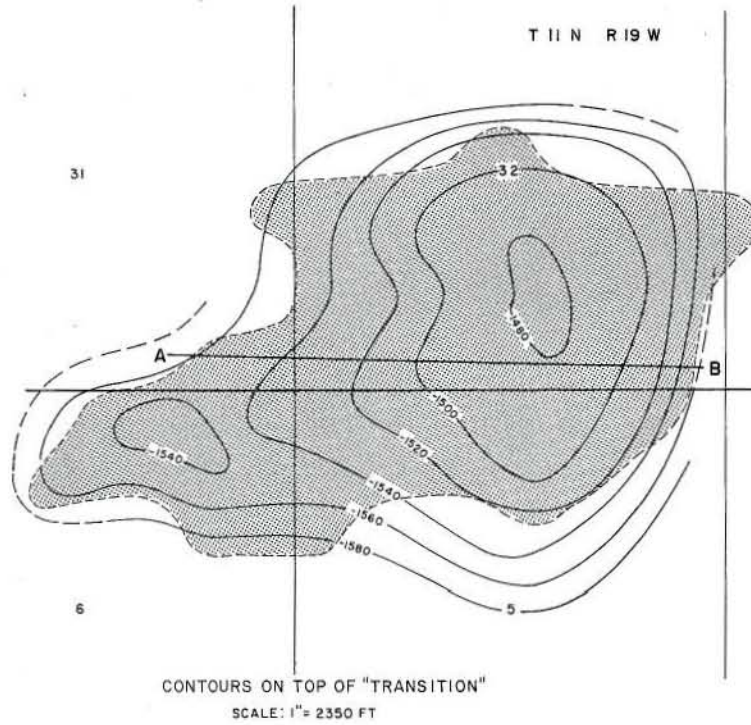
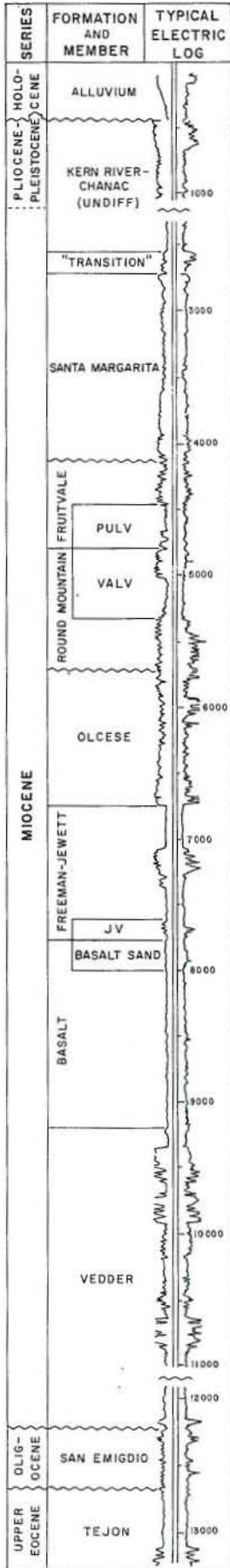
CURRENT CASING PROGRAM: 10 3/4" cem. 200; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: In 1972 all of the waste water was injected into two water disposal wells.

REMARKS:

REFERENCES: Barnes, J.A., Southeast Area of Tejon Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 1 (1968)

# TEJON OIL FIELD Western Area





# CALIFORNIA DIVISION OF OIL AND GAS

WESTERN AREA

TEJON OIL FIELD

Kern County

LOCATION: See index map of Tejon Oil Field

TYPE OF TRAP: Elongated dome

ELEVATION: 1,100

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
"Transition" - Santa Margarita Pulv Valv	Gulf Oil Corp. and Transamerica Development Co. "Tejon Ranch" 41-5 Drilling & Production Co. "J.V." 101-32 Texaco Inc. "Tejon Ranch B" No. 2	British-American Oil Producing Co. "Tejon Ranch" 41-5 Same as present The Texas Co. "Tejon Ranch B" 2	5 10N 19W	SB	200	N.A.	Dec 1945
			32 11N 19W	SB	27	60	Dec 1949
			6 10N 19W	SB	108	20	Oct 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Chanslor-Western Oil & Dev. Co. 4-1-32	Standard Oil Co. of Calif. "CCMO 4" 35	Mar 1953	32 11N 19W	SB	13,239	Tejon	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
"Transition" - Santa Margarita Pulv Valv	2,600	55	late Miocene	"Transition" and Santa Margarita	16	65	III
	4,600	125	late Miocene	Fruitvale	20	110	IV
	5,400	60	m Miocene	Round Mountain	19	870	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
142,696	22,790	2,258,396	540	62	11,981,963	3,361,938	984,473	1947	119	111	685

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water Flood	1959	33,175,373	6

SPACING ACT: Applies

BASE OF FRESH WATER: 1,250 - 1,800

CURRENT CASING PROGRAM: 11 3/4" or 10 3/4" cem. as deep as 500 depending on intended zone; 8 5/8" or 7" cem. above zone and across base of fresh-water sands; 6 5/8" or 5 1/2" liner landed through zone.

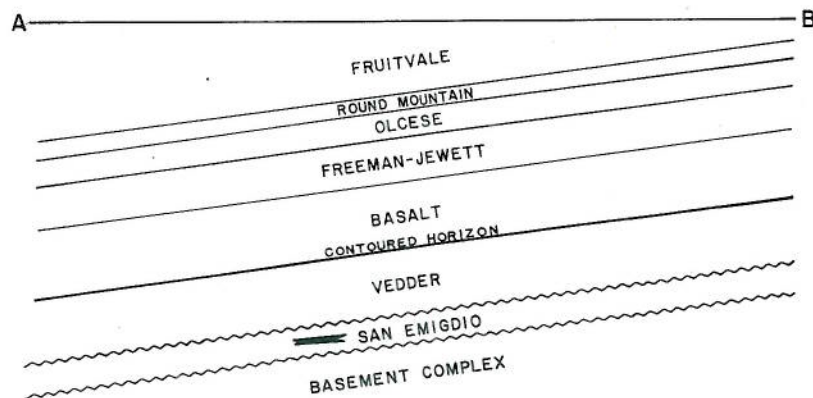
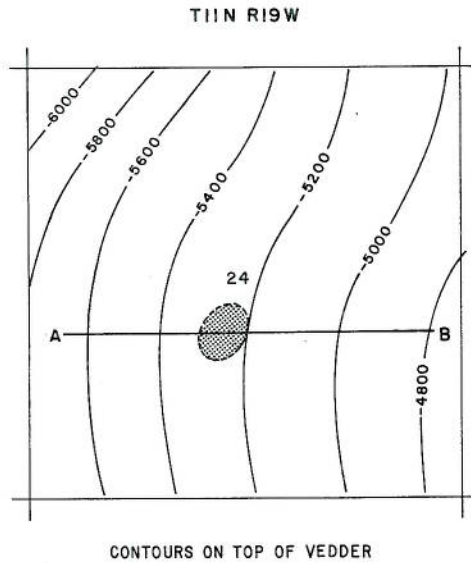
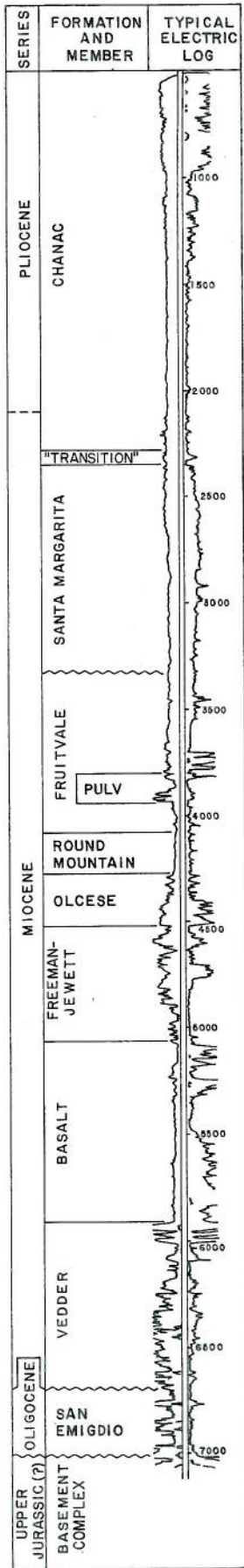
METHOD OF WASTE DISPOSAL: In 1972 waste water was used in the water flood project or injected into two disposal wells, or disposed of into sumps.

REMARKS: A cyclic-steam injection project was started in 1964 and was discontinued in 1967 after the injection of 167,189 bbls. of water (in the form of steam).

REFERENCES: Kasline, F.E., Tejon Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 34, No. 1 (1948).



# TEJON FLATS OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

TEJON FLATS OIL FIELD (Abandoned)

Kern County

LOCATION: 28 miles south of Bakersfield

TYPE OF TRAP: Lithofacies variation on a homocline

ELEVATION: 750

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
San Emigdio	Union Oil Co. of Calif. "Reserve Kerr" 46-24	Same as present	24 11N 19W	SB	27	N.A.	Mar 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Reserve Oil and Gas Co. "Reserve-Union-Kerr" 38-24	Same	Jan 1956	24 11N 19W	SB	7,407	Basement	Late Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
San Emigdio	6,900	7	Oligocene	San Emigdio	30	1,575	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	22,118	6,632	4,969	1955	2	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,200

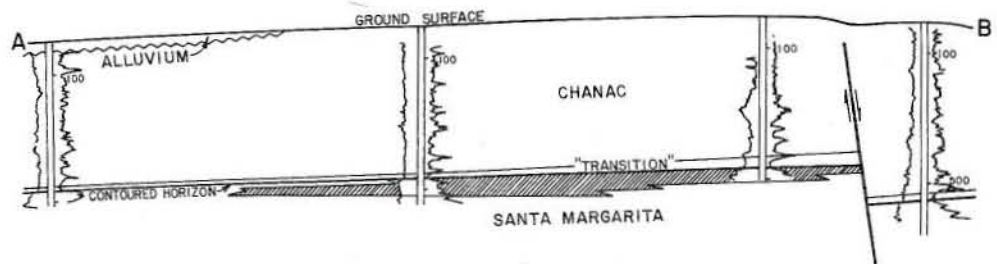
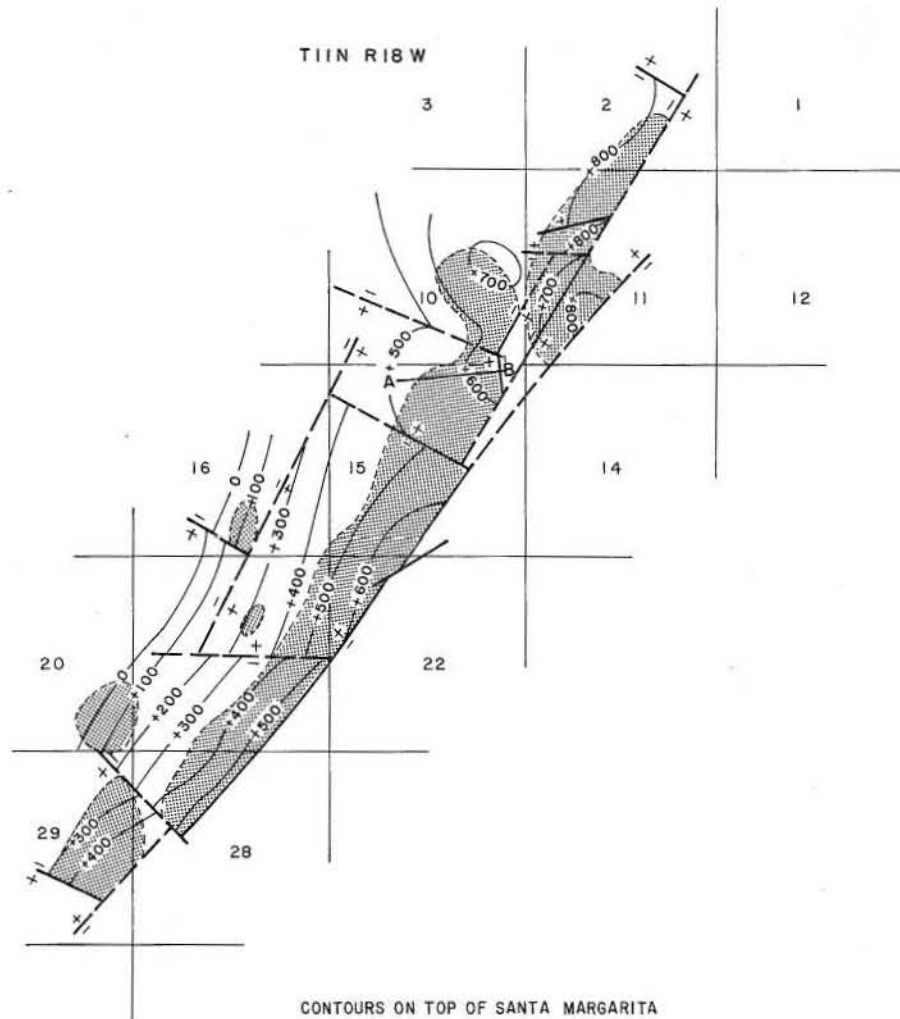
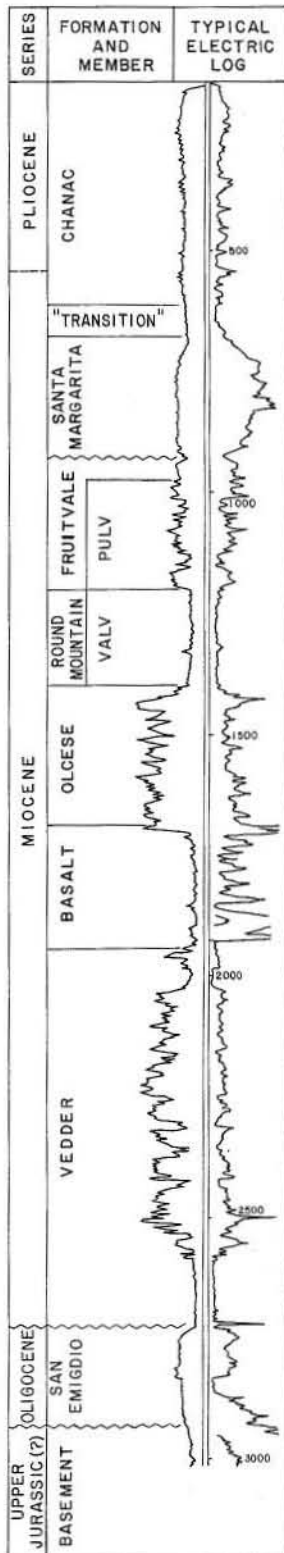
CURRENT CASING PROGRAM: 11 3/4" cem. 800; 7" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

REMARKS: The one producing well was abandoned in 1958.

REFERENCES: Kasline, F.E., Tejon Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 39, No. 1, p. 7, (1953).

# TEJON HILLS OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

TEJON HILLS OIL FIELD

Kern County

LOCATION: 20 miles southeast of Bakersfield

TYPE OF TRAP: Faulted homocline

ELEVATION: 800 - 1,400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	Crown Central Petroleum Co. "Sunset-Tejon" 2	The Tejon Hills Co. "Tejon Hills" 2	10 11N 18W	SB	62	N.A.	Aug 1948
Valv	Standard Oil Co. of Calif. "Tejon Ranch 23" 13	D.K. Associates "D.K. Corral" 1	28 11N 18W	SB	200	N.A.	Feb 1950
Vedder (DK)	Standard Oil Co. of Calif. "Tejon Ranch 23" 73	D.K. Associates - 2 No. 73	29 11N 18W	SB	500	N.A.	Jun 1950
San Emigdio (LO)	Standard Oil Co. of Calif. "Tejon Ranch 23" 183	D.K. Partnership #2 "Corral" 183-29	29 11N 18W	SB	32	N.A.	Oct 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Gulf Oil Corp. "Tejon Ranch" 1	Western Gulf Oil Co. 1 - "Tejon Ranch"	Aug 1947	29 11N 18W	SB	4,231	Granite	Late Jur

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santa Margarita	450	50	late Miocene	Santa Margarita	29	5	None
Valv	1,350	30	m Miocene	Round Mountain	29	5	None
Vedder (DK)	1,565	100	early Miocene	Vedder	33	N.A.	None
San Emigdio (LO)	2,100	75	Oligocene	San Emigdio	32	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
76,755	29,333	3,366,965	775	104	12,501,385	2,408,839	1,604,301	1952	494	321	945

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1954	29,033,063	15

SPACING ACT: Applies

BASE OF FRESH WATER: 800

CURRENT CASING PROGRAM: 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

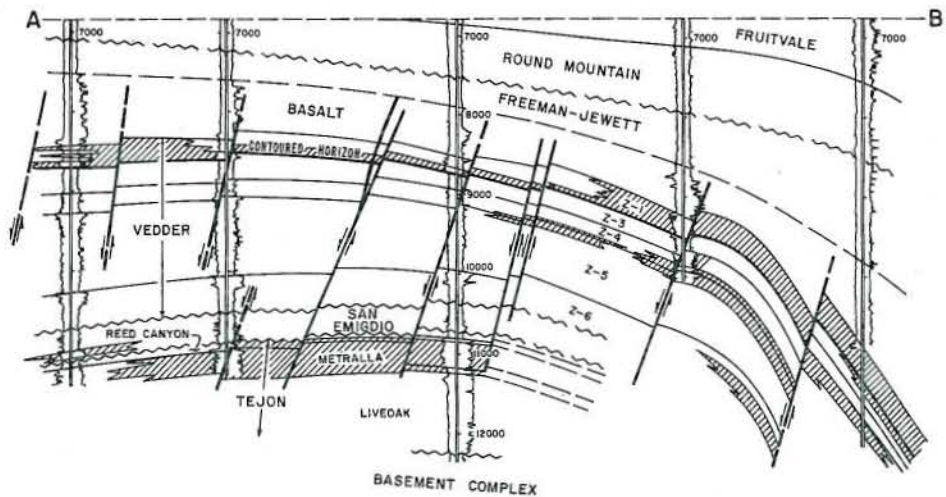
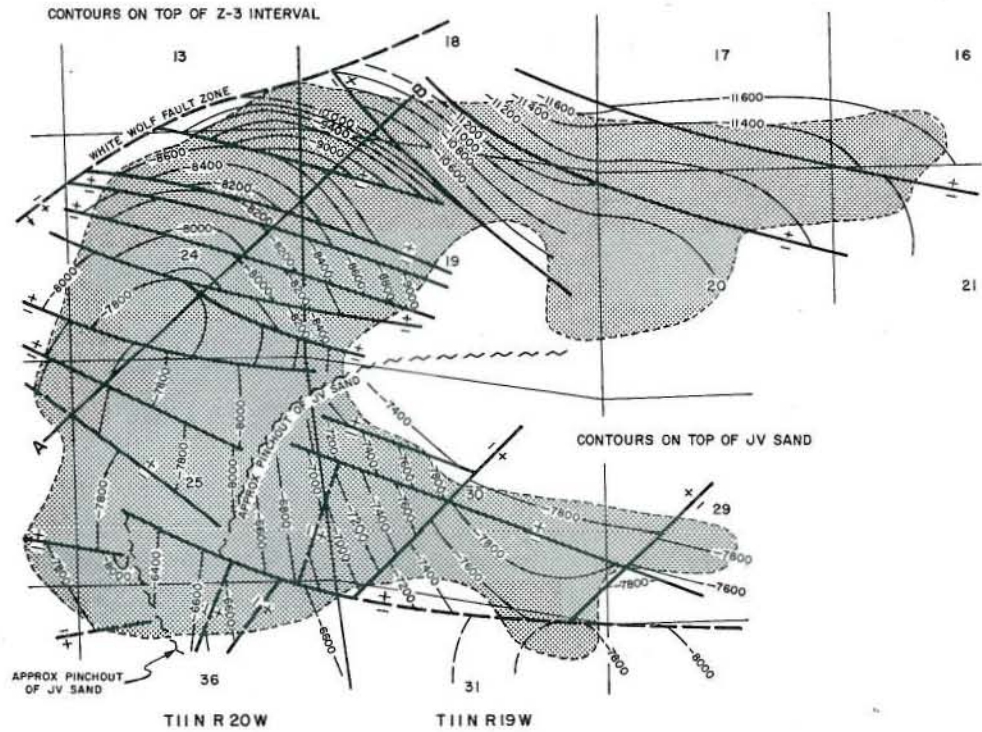
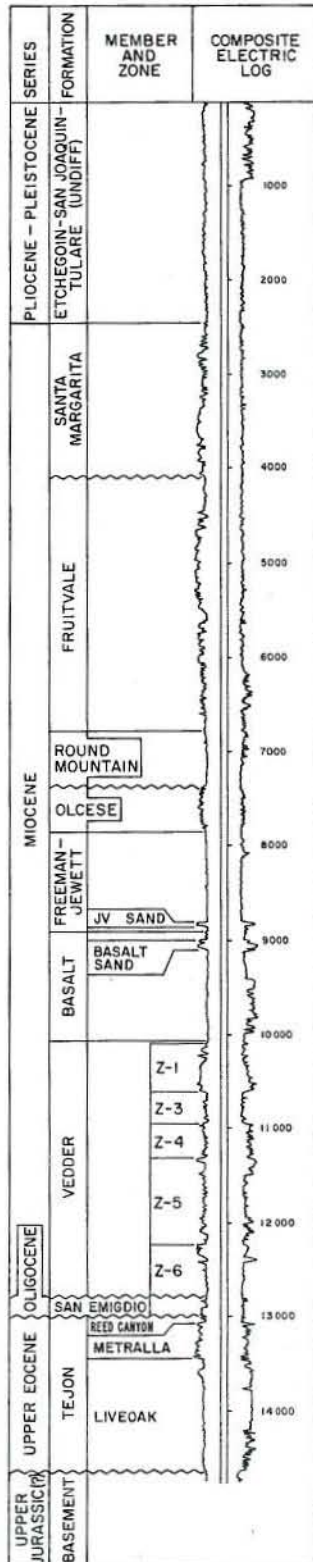
METHOD OF WASTE DISPOSAL: Some waste water is used to water-flood the Santa Margarita zone; evaporation and percolation sumps.

REMARKS: Boron concentrations in waste water exceed maximum recommended by U.S. Public Health Service for human consumption.

REFERENCES: Kasline, F.E., Tejon Hills Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 39, No. 1 (1953).



# NORTH TEJON OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

TEJON, NORTH, OIL FIELD

Kern County

LOCATION: 24 miles south of Bakersfield

TYPE OF TRAP: Faulted anticlinal nose with major permeability barriers

ELEVATION: 900

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pulv	Atlantic Richfield Co. "Richfield-Mohawk-Wheeler Ridge Community" 16-30	Richfield Oil Corp. "Richfield-Mohawk-Wheeler Ridge Community" 16-30	30 11N 19W	SB	97	20	Sep 1956
Olcese	Reserve Oil and Gas Co. "R-S-T" 185-19	Same as present	19 11N 19W	SB	521	430	Jul 1958
JV	Atlantic Richfield Co. "Richfield-Mohawk-Wheeler Ridge Community" 16-30	Richfield Oil Corp. "Richfield-Mohawk-Wheeler Ridge Community" 16-30	30 11N 19W	SB	594	8,700	Feb 1957
Basalt	Frank Goldman "KCL" 85X	Kern Oil Calif. Ltd. "KCL" 85X	25 11N 20W	SB	285	N.A.	Dec 1960
Vedder	Atlantic Richfield Co. "KCL F" 52-36	Richfield Oil Corp. "KCL F" 52-36	36 11N 20W	SB	154	880	Mar 1956
San Emigdio A	Reserve Oil and Gas Co. "W-T" 304-19	Same as present	19 11N 19W	SB	164	2,180	Mar 1959
Metralla	Atlantic Richfield Co. "ROC-KCL G" 63-24	Richfield Oil Corp. "ROC-KCL G" 63-24	24 11N 20W	SB	205	2,175	Nov 1958

Remarks: A Discovery well is open to San Emigdio and Metralla zones.

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Reserve Oil and Gas Co. "R-S-T" 187-19	Same	Feb 1959	19 11N 19W	SB	14,205	Tejon	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pulv	5,370	230	m Miocene	Fruitvale	27	N.A.	III
Olcese	7,300	180	m Miocene	Olcese	36	1,850	III
JV	8,150	85	early Miocene	Freeman-Jewett	37 - 58	1,480	IV
Basalt	7,800	50	early Miocene	Basalt	38 - 51	1,250	IV
Vedder B	10,000	B	early Miocene	Vedder	31 - 60	1,940	IV
San Emigdio (R-1 and R-2)	10,900	100	Oligocene	San Emigdio	43	N.A.	IV
Metralla	11,000	400	late Eocene	Tejon	33 - 53	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
331,702	3,553,294	428,395	1,705	76	19,384,486	189,084,920	3,662,853	1960	136	112	2,660

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,100

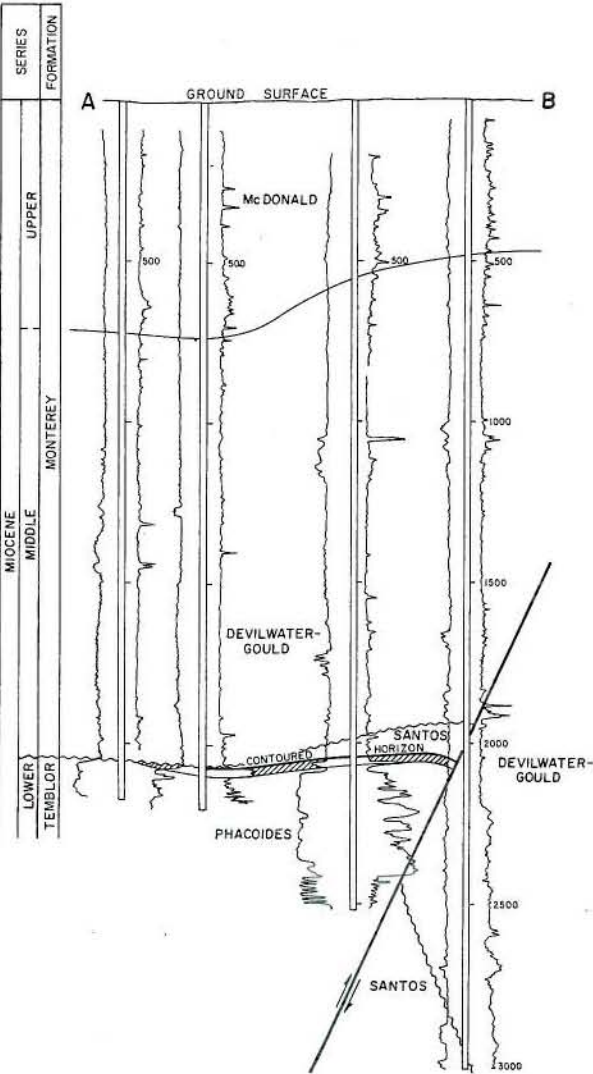
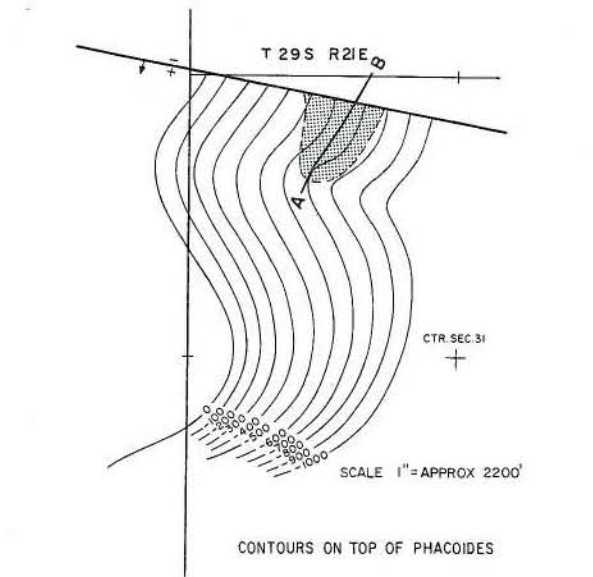
CURRENT CASING PROGRAM: 11 3/4" cem. 1,000; 7" cem. above zone and across base of fresh-water sands; 5" liner landed through zone.

METHOD OF WASTE DISPOSAL: Waste water is injected into the Santa Margarita.

REMARKS: B There are 7 productive sand intervals in the Vedder, Z-0, Z-1R, Z-1, Z-3, Z-4, Z-5, and Z-6, having a combined thickness ranging from 700' to 2,000'.

REFERENCES: Park, W.H., North Tejon Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 2 (1961).

# EAST TEMBLOR OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

TENBLOR, EAST, OIL FIELD

Kern County

LOCATION: 24 miles northwest of Taft

TYPE OF TRAP: Angular unconformity and fault

ELEVATION: 1,400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Phacoides	Ferguson & Bosworth "FO'B" 42-A	Same as present	31 29S 21E	MD	9	0	Jun 1953

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Calumet Gold Mines Co. "FO'B" 2	Same	Dec 1946	31 29S 21E	MD	3,013	Santos	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Phacoides	2,060	25	early Miocene	Temblor	20	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	20	0	14,829	0	9,661	1966	15	4	40

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

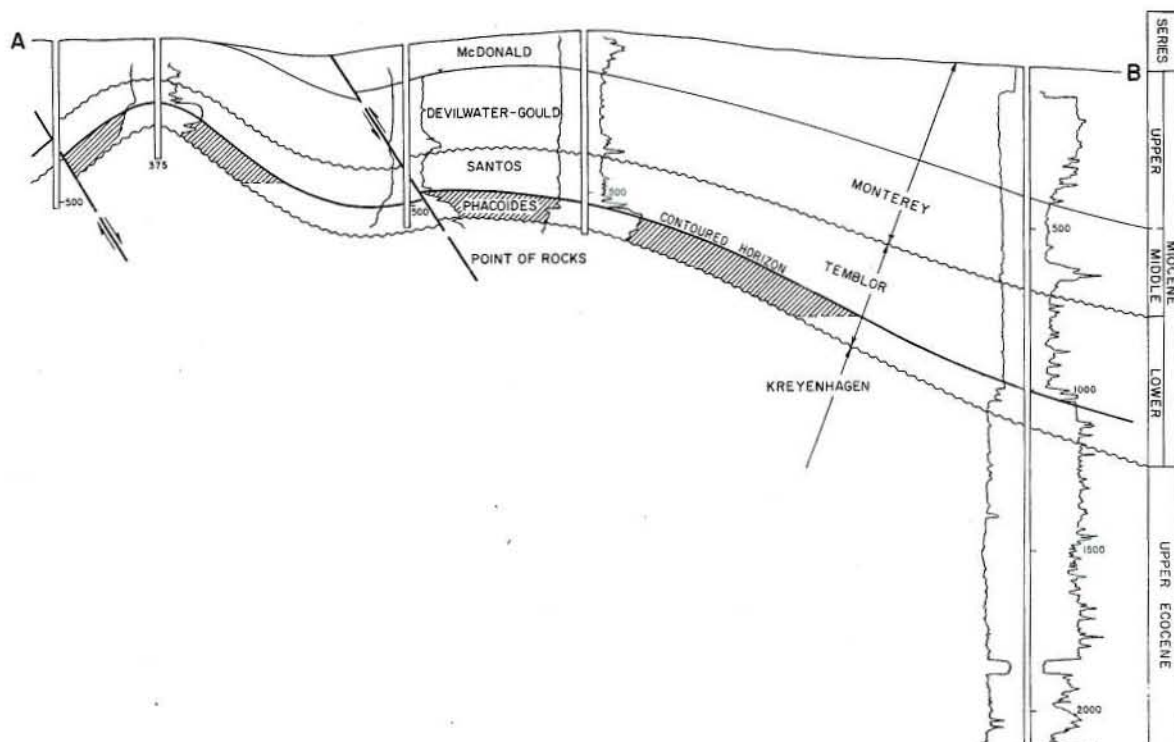
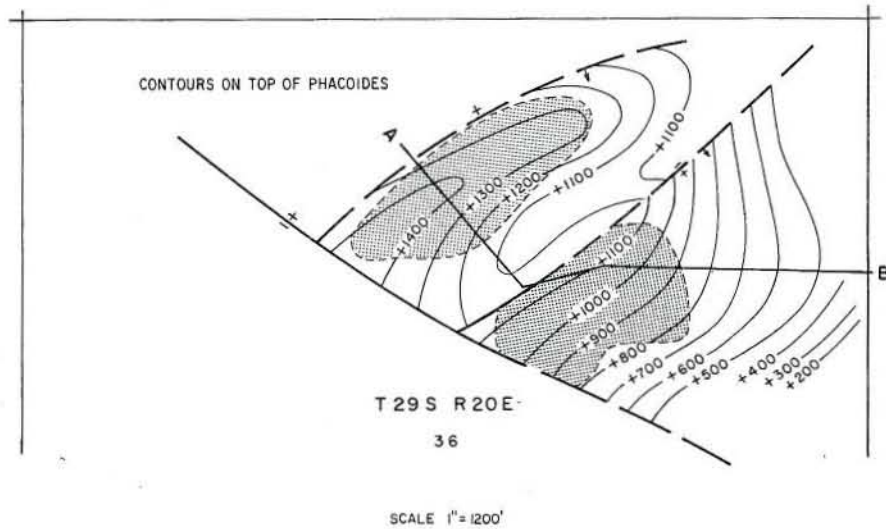
METHOD OF WASTE DISPOSAL:

REMARKS:

REFERENCES: Land, P.E., East Temblor Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 1 (1968).



# TEMBLOR RANCH OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

TEMBLOR RANCH OIL FIELD

Kern County

LOCATION: 24 miles northwest of Taft

TYPE OF TRAP: Faulted anticline

ELEVATION: 1,600

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Phacoides	Victory Oil Co. No. 7	Climax Oil Co. No. 1	36 29S 20E	MD	10	N.A.	May 1900

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Victory Oil Co. J-12	Aslin Oil Co., Inc. 69-J-12	Oct 1952	36 29S 20E	MD	2,119	Point of Rocks	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Phacoides	400	60	early Miocene	Temblor	16	20	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
9,012	0	62,939	90	15	1,063,642	0	47,115	1947	51	36	90

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: None

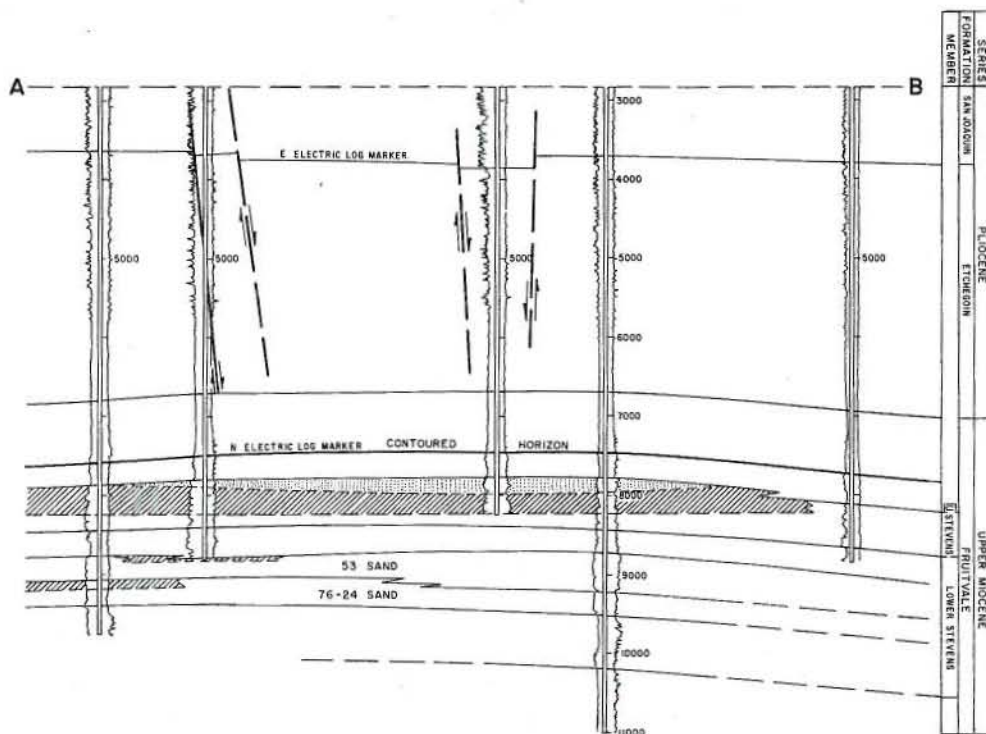
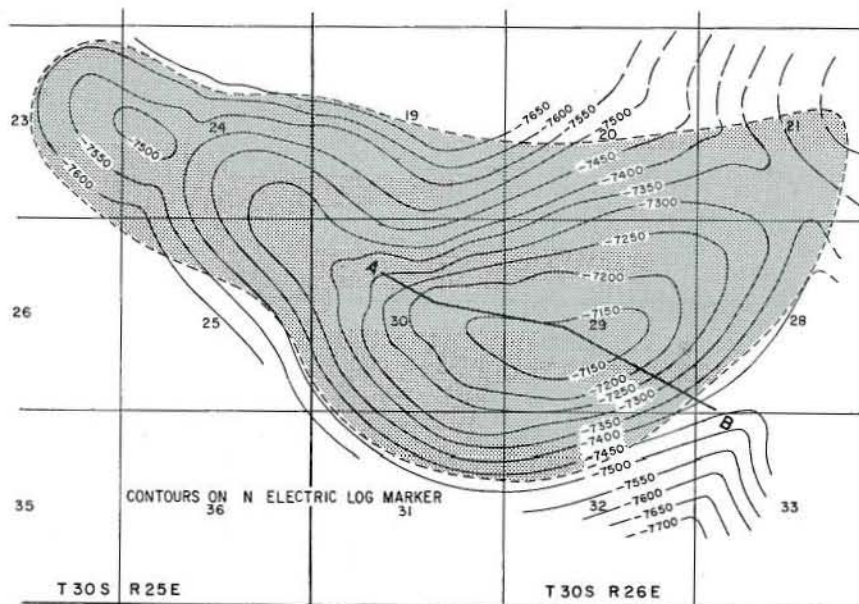
CURRENT CASING PROGRAM: 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

REMARKS: Formerly part of Temblor field.

REFERENCES: Land, P.E., Temblor Ranch Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 54, No. 1 (1968).

# TEN SECTION OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

TEN SECTION OIL FIELD

Kern County

LOCATION: 10 miles southwest of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Shell Oil Co. "KCL-A" 1	Shell Oil Co. "K.C.L.-Stevens A" 1	29 30S 26E	MD	827	14,120	Jun 1936

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "KCL" 15X-24	Same	Dec 1957	24 30S 25E	MD	15,739	Basement	Jurassic

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Main Area)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
759,360	1,055,878	1,006,606	2,295	79	77,414,127	173,115,067	6,557,724	1943	184	167	2,420

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: Hluza, A.G., Ten Section Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 53, No. 1 (1967).



# CALIFORNIA DIVISION OF OIL AND GAS

MAIN AREA

TEN SECTION OIL FIELD

Kern County

LOCATION: See map sheet of Ten Section Oil Field

TYPE OF TRAP: Anticline; permeability variations

ELEVATION: 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Pliocene (Gas)	Tenneco West, Inc. "Ten West-Shell" 1G	Carr & Wrath "K.C.L.-Shell" 1-G	29 30S 26E	MD	0	560	Aug 1966
Upper Stevens	Shell Oil Co. "KCL-A" 1	Shell Oil Co. "K.C.L.-Stevens A" 1	29 30S 26E	MD	827	14,123	Jun 1936
Lower Stevens	Shell Oil Co. "KCL-A" 53-30	Shell Oil Co., Inc. "KCL-A" 53-30	30 30S 26E	MD	399	1,212	Sep 1947

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "KCL-A" 53-30	Shell Oil Co., Inc. "KCL-A" 53-30	Sep 1946	30 30S 26E	MD	14,000	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (bbl))	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Pliocene (Gas)	4,500	7	Pliocene	Etchegoin	1,015	1,700	III
Upper Stevens	7,950	320	late Miocene	Fruitvale	32 - 39	1,410	IV
Lower Stevens	9,000	150	late Miocene	Fruitvale	33	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Remarks)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
717,130	1,046,114	915,498	2,190	75	75,594,902	171,204,959	6,557,724	1943	172	155	2,250

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Gas injection	1954	24,679,603	3

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

CURRENT CASING PROGRAM: Pliocene: 8 5/8" cem. 500; 4 1/2" cem. through zone and across base of fresh-water sands. Stevens: 9 5/8" cem. 1,000; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: In 1972 all waste water was injected into the San Joaquin - Etchegoin.

REMARKS: 1972 dry gas production 140,895 Mcf from 3 producing wells; cumulative dry gas production 7,032,010; 12 wells drilled and completed; proved acreage (1972) 130, maximum 170.

REFERENCES: Gentry, A.W., Ten Section Oil Field: Calif. Div. of Mines Bull. 118, p. 549-550 (1943).

# CALIFORNIA DIVISION OF OIL AND GAS

NORTHWEST AREA

TEN SECTION OIL FIELD

Kern County

LOCATION: See map sheet of Ten Section Oil Field

TYPE OF TRAP: Anticline; lithofacies variations

ELEVATION: 325

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Upper Stevens	Shell Oil Co. "KCL" 84-23	Same as present	23 30S 25E	MD	338	472	Jul 1958
Lower Stevens	Same as above	Same as present	23 30S 25E	MD	N.A.	N.A.	Jul 1958

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "KCL" 15X-24	Same	Dec 1957	24 30S 25E	MD	15,739	Basement	Jurassic

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Upper Stevens	8,100	130	late Miocene	Fruitvale	35	1,400	IV
Lower Stevens	9,500	100	late Miocene	Fruitvale	34	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
42,230	9,764	91,108	105	4	1,819,225	1,910,108	355,948	1959	12	12	170

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 2,000

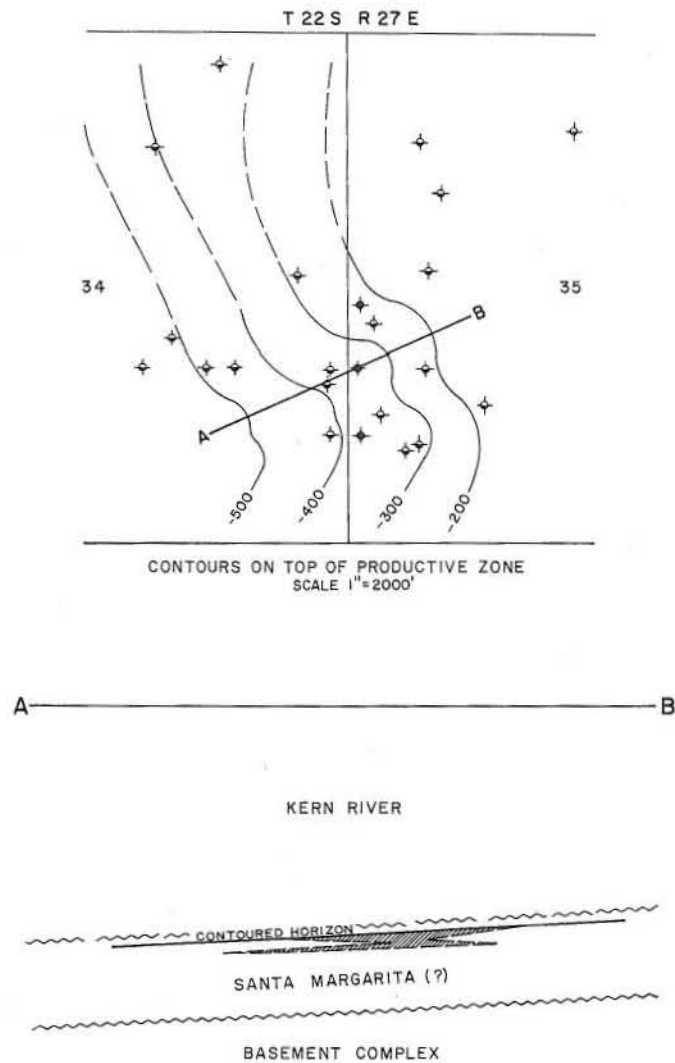
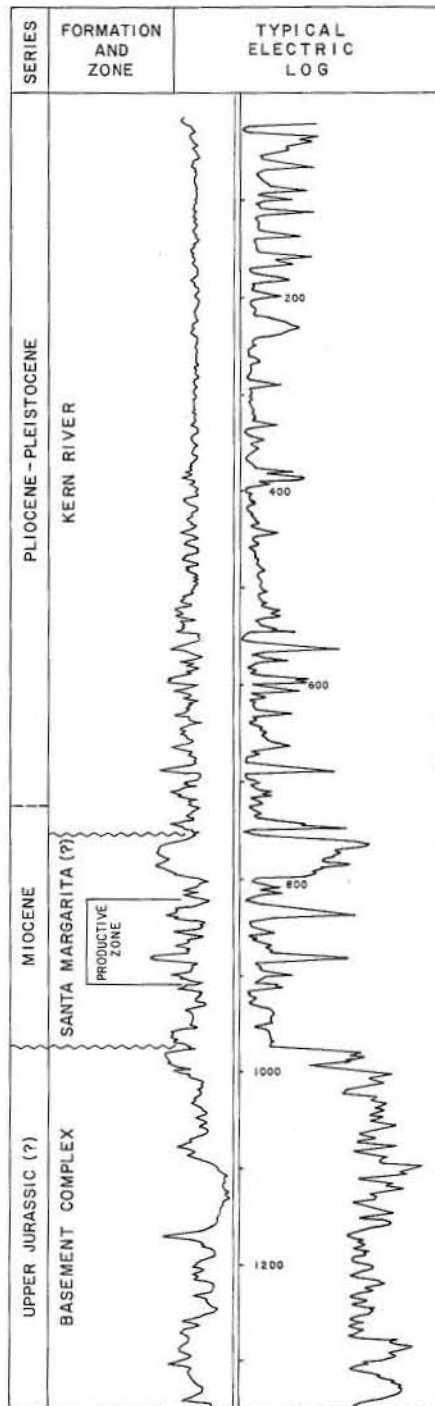
CURRENT CASING PROGRAM: 9 5/8" cem. 1,000; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL: Waste water is transported by pipeline to Canal field and utilized in a water flood project.

REMARKS: A water flood of the Upper Stevens was begun in March 1961 and terminated in 1971. Cumulative injection totals 4,769,372 bbls.

REFERENCES:

# TERRA BELLA OIL FIELD (Abandoned)



## CALIFORNIA DIVISION OF OIL AND GAS

TERRA BELLA OIL FIELD (Abandoned)

Tulare County

LOCATION: 6 miles south of Porterville

TYPE OF TRAP: Permeability variations on a homocline

ELEVATION: 450

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	Norwood Oil Co. "Gardner" 1	Terra Bella Oil Co. "Gardner" 1	35 22S 27E	MD	50	N.A.	Aug 1930

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Tres Carlos Exploration Co. "Tres Carlos Gardner" 4B	Same	Oct 1951	35 22S 27E	MD	1,710	Basement (Granite)	Late Jur (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santa Margarita	860	100	late Miocene	Santa Margarita	16	20 - 140	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	17,651	0	3,525	1933	16	3	15

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Does not apply

BASE OF FRESH WATER: Basement

CURRENT CASING PROGRAM: 8 5/8" cem. above zone; 6 5/8" liner landed through zone.

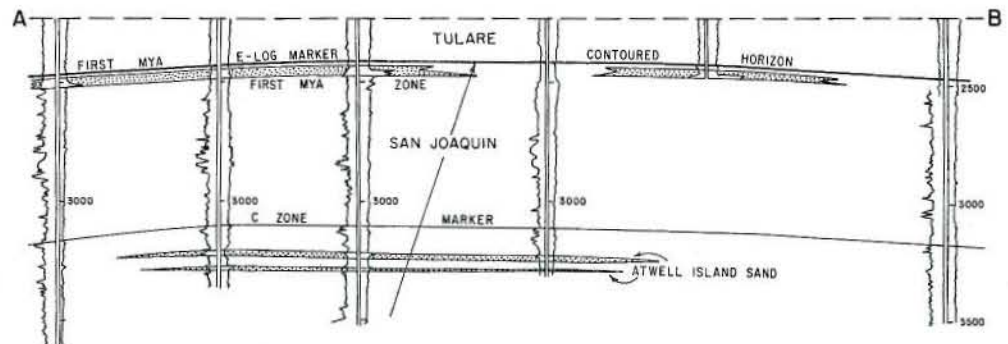
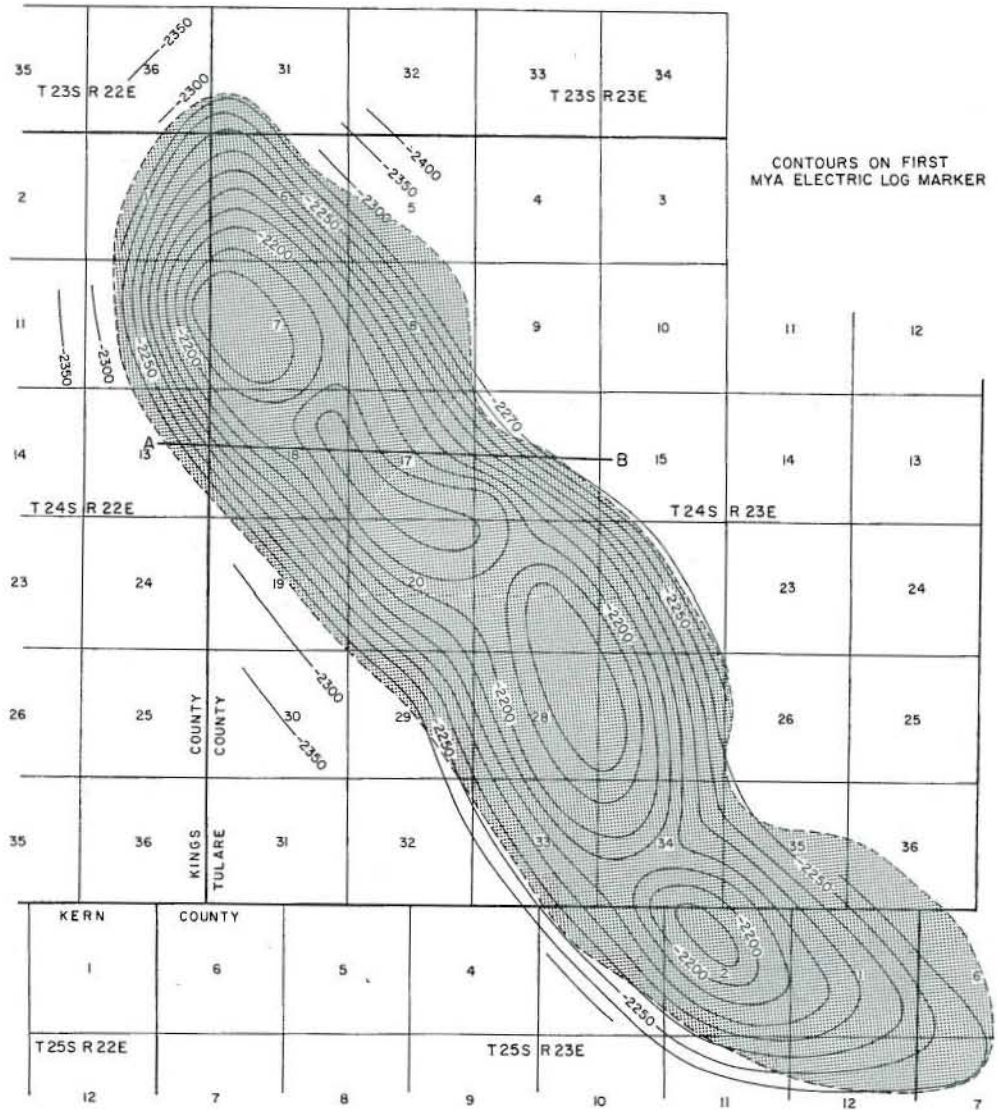
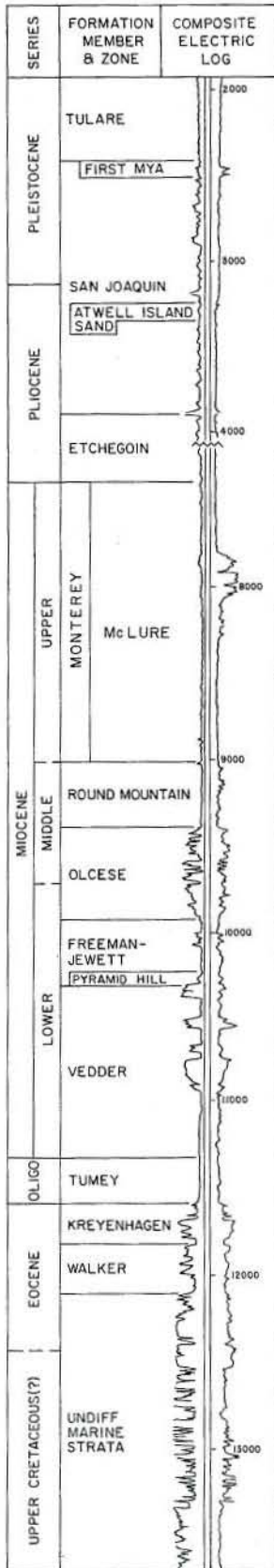
METHOD OF WASTE DISPOSAL:

REMARKS:

REFERENCES: Weddle, J.R., Deer Creek Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 44, No. 1 p. 53 (1958).



# TRICO GAS FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

TRICO GAS FIELD

Kern, Kings, and Tulare Counties

LOCATION: 12 miles west of Delano

TYPE OF TRAP: Anticline; permeability barriers

ELEVATION: 310

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
First Mya	Trico Industries Inc. No. 2	Trico Oil and Gas Co. No. 2	3 25S 23E	MD	3,400	25	N.A.	Nov 1934
Atwell Island	Trico Industries Inc. "Atwell Island Comm." 1	Trico Oil and Gas Co. "Atwell Island Comm." 1	7 24S 23E	MD	5,500	1,020	N.A.	Oct 1945

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Trico Industries Inc. "H.C. Morris" 1	Standard Oil Co. of Calif. "H.C. Morris" 1	Jul 1938	36 24S 23E	MD	13,480	Undiff. marine	Late Cret (?)

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
First Mya	2,525	20	e Pleistocene	San Joaquin	1,010	1,870	1,150	III
Atwell Island	3,225	24	Pliocene	San Joaquin	1,010	2,650	1,480	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
1,562,012	1,018	6,610	23	195,952,335	10,672,438	1948	164	133	11,125

SPACING ACT: Applies

BASE OF FRESH WATER: 1,200

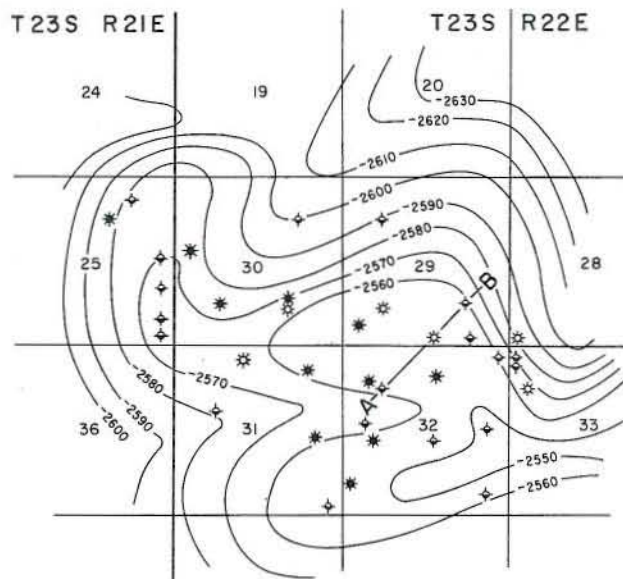
CURRENT CASING PROGRAM: 10 3/4" cem. 400; 5 1/2" cem. through zone and across base of fresh-water sands.

METHOD OF WASTE DISPOSAL:

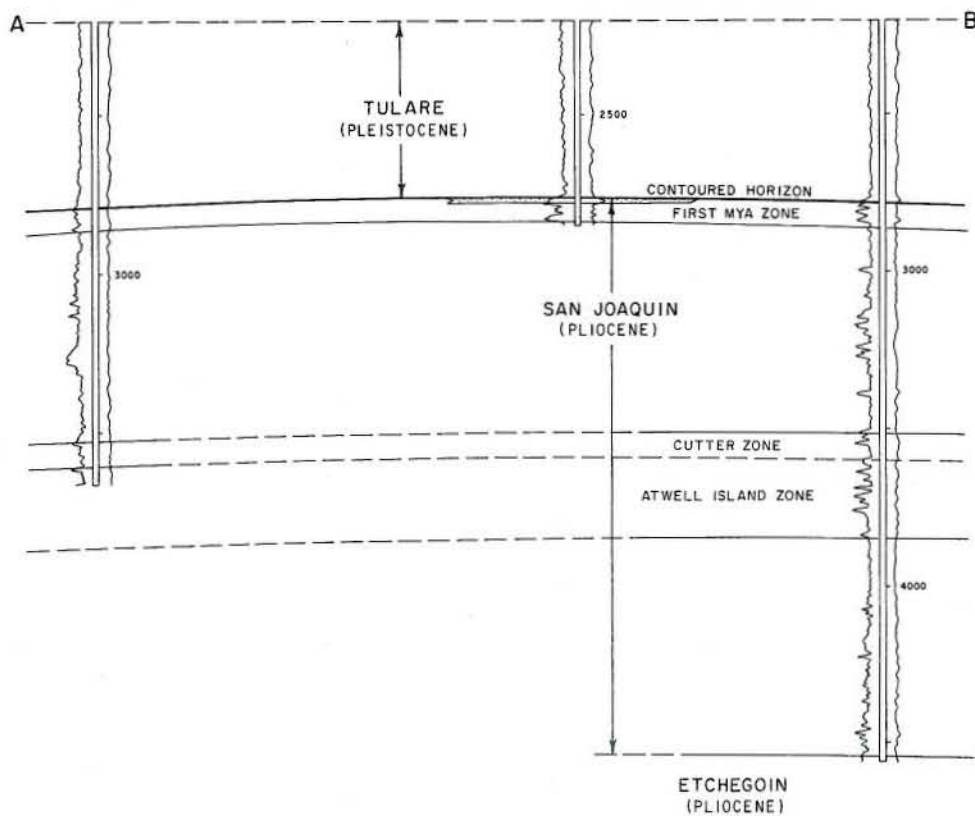
REMARKS:

REFERENCES: Bailey, W.C., and R.M. Barger, Trico Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 32, No. 2 (1946).

# NORTHWEST TRICO GAS FIELD



CONTOURS ON TOP OF FIRST MYA ZONE



## CALIFORNIA DIVISION OF OIL AND GAS

TRICO, NORTHWEST GAS FIELD

Kings County

LOCATION: 44 miles southeast of Coalinga

TYPE OF TRAP: Anticlinal nose with permeability variations

ELEVATION: 200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in.)	
First Mya Atwell Island	Artnell Oil and Gas Co. "Cutter" 1 Same as above	W.W. Holmes, Opr. "Cutter" 1 Standard Oil Co. of Calif. "Cutter" 1	29 23S 22E	MD	5,000	950	1/2	Feb 1953
			29 23S 22E	MD	10,000	1,300	N.A.	Sep 1944

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Transco Oil Co. "SLP" 1-25	Same	Dec 1967	25 23S 21E	MD	5,000	Etchegoin	Pliocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
First Mya	2,750	8	Pliocene	San Joaquin	N.A.	N.A.	1,250	III
Atwell Island	3,800	10	Pliocene	San Joaquin	1,040	N.A.	1,555	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
273,163	2,682	190	4	7,687,953	1,868,922	1968	41	22	840

SPACING ACT: Applies

BASE OF FRESH WATER: 380

CURRENT CASING PROGRAM: 7" cem 400; 2 7/8" cem 2,800 - 4,000.

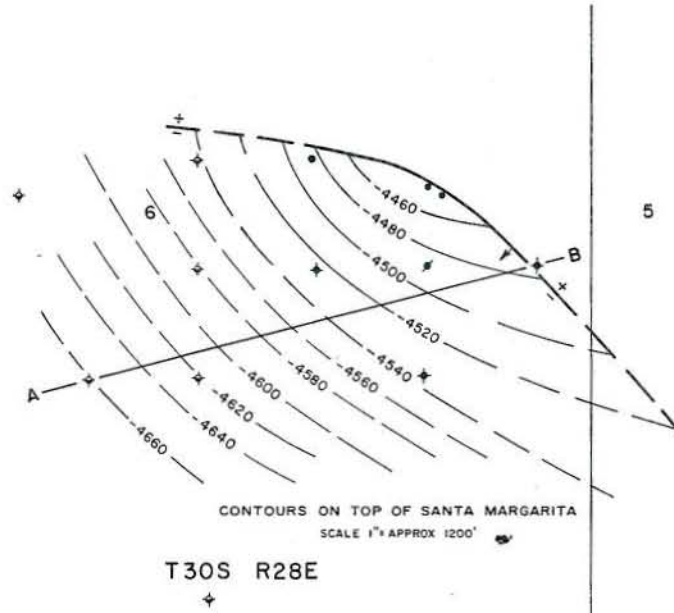
METHOD OF WASTE DISPOSAL:

REMARKS: The major period of development followed the completion in Sept. 1967 of Transco Oil Co. Well No. "H.I." 1-30, Sec. 30. The Atwell Island zone includes the Cutter sand.

REFERENCES: Hill, F.L., Northwest Trico Gas Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 1 (1964).



# UNION AVENUE OIL FIELD



## CALIFORNIA DIVISION OF OIL AND GAS

UNION AVENUE OIL FIELD

Kern County

LOCATION: 2 miles south of Bakersfield

TYPE OF TRAP: Faulted anticlinal nose

ELEVATION: 400

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Chanac	L.W. Babcock "Roberts" 2	Hancock Oil Co. of Calif. "Roberts" 2	6 30S 28E	MD	150	1,000	Oct 1941
Santa Margarita	L.W. Babcock "Roberts" 1	Hancock Oil Co. "Roberts" 1	6 30S 28E	MD	400	N.A.	Jan 1941

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "Union Avenue" 1	Richfield Oil Corp. "Union Avenue" 1	Jul 1938	6 30S 28E	MD	10,427	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Chanac	4,100	200	Miocene	Chanac	15	20	III
Santa Margarita	5,000	200	late Miocene	Santa Margarita	15	70	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
36,527	0	863,602	15	3	1,210,040	829,013	139,103	1946	14	7	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 3,550

CURRENT CASING PROGRAM: 11 3/4" cem. 600; 8 5/8" cem. above zone and across base of fresh-water sands; 6 5/8" liner landed through zone.

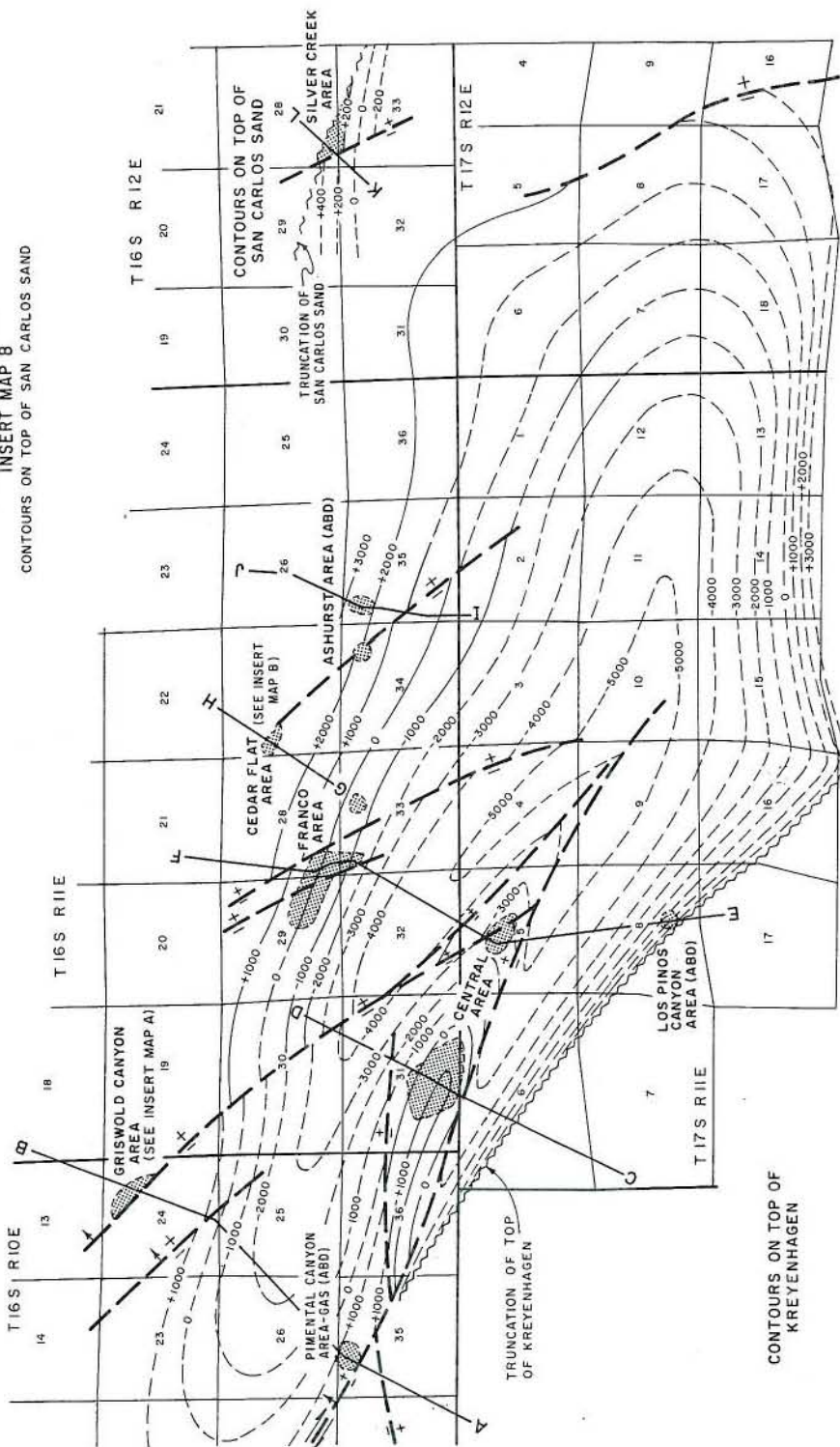
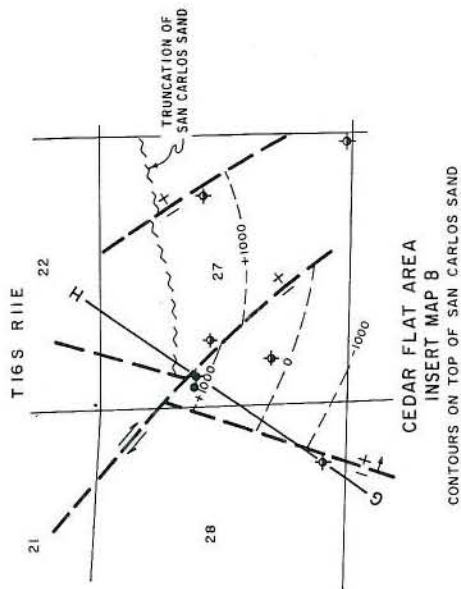
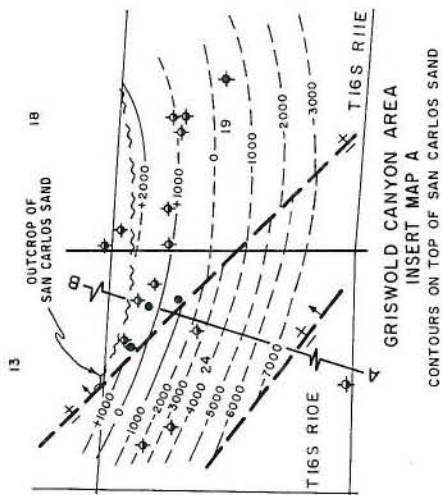
METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

REMARKS: Waste water has a boron concentration of 3 ppm.

REFERENCES: Weddle, J.R., Union Avenue Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 47, No. 1 (1961).

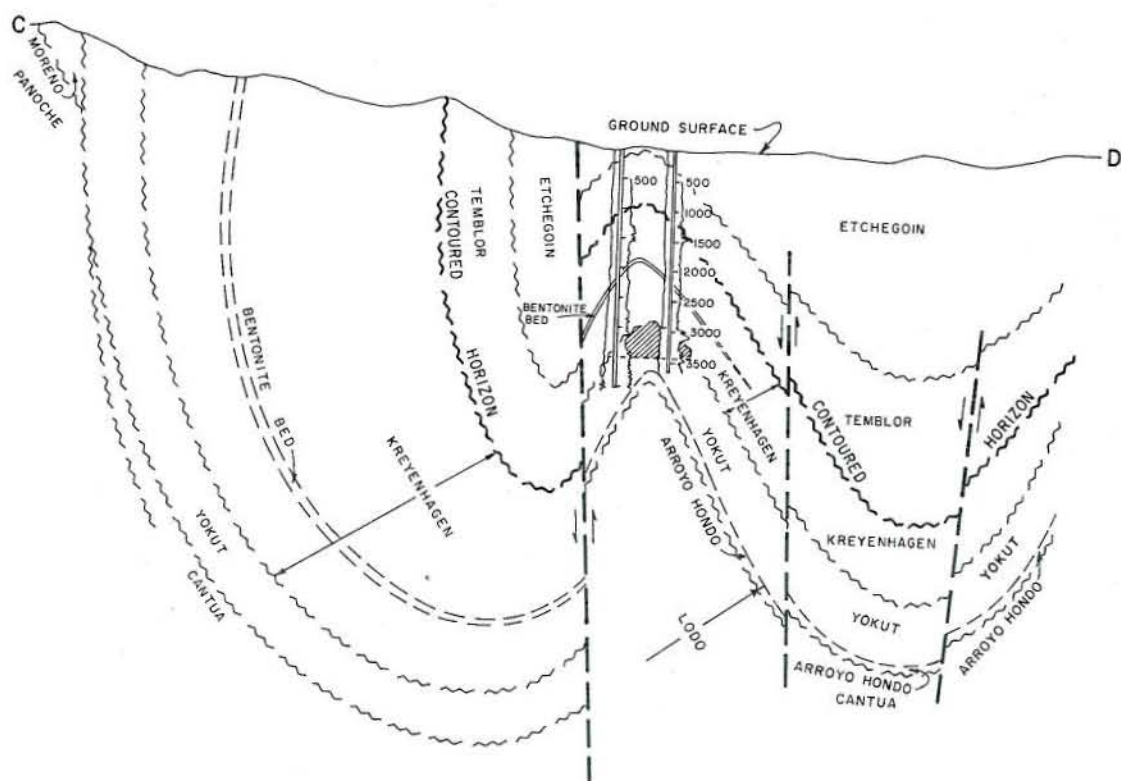
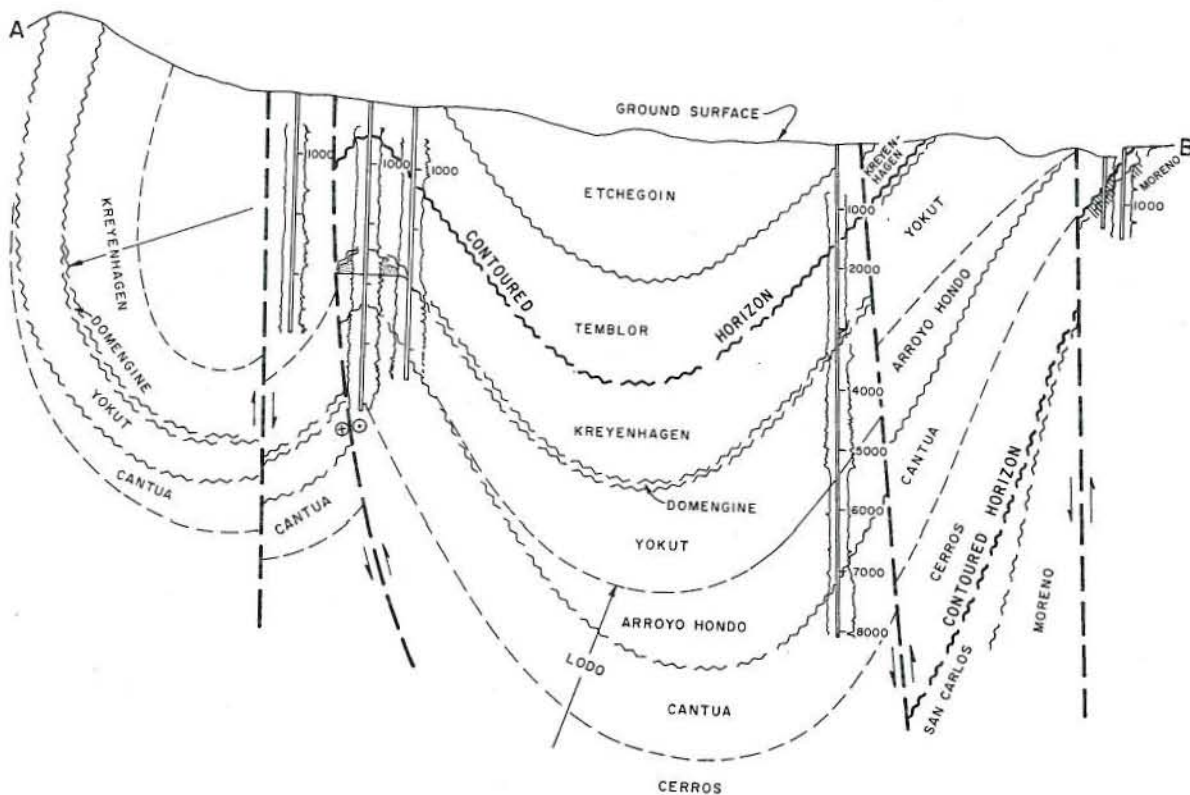
# VALLECITOS OIL FIELD

FORMATION & MEMBER	SERIES
ALLUVIUM AND TERRACE	HOLOCENE
ETCHEGOIN	
TEMBLOR	MIOCENE
KREYENHAGEN	
ASHURST SAND	EOCENE
DOMENGINE	
YOKUT	
ARROYO HONDO SHALE	
CANTUA SAND	
CERROS SHALE	PALEOCENE
SAN CARLOS SAND	
MARTINEZ	UPPER CRETACEOUS
MORENO	
PANOCHÉ	



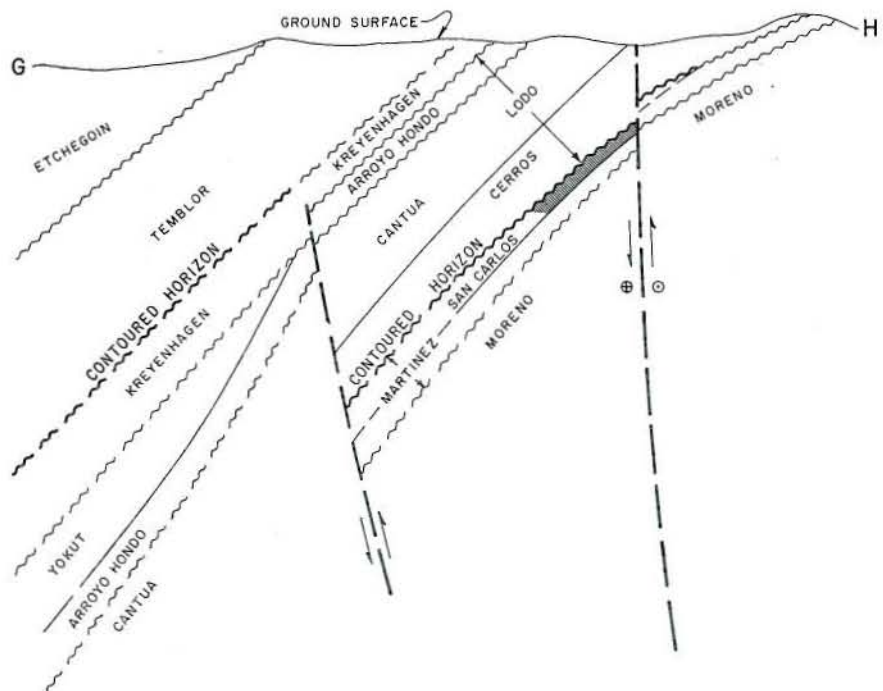
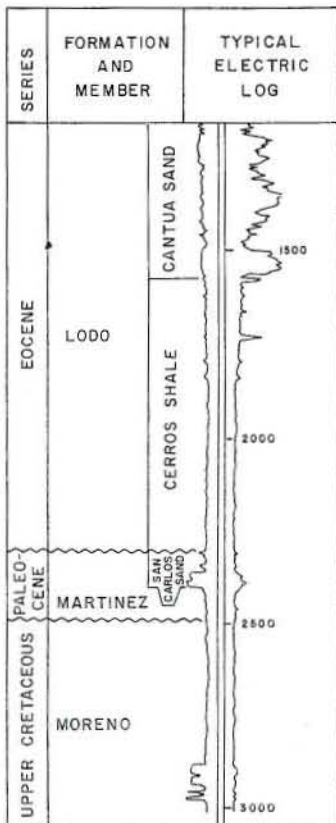
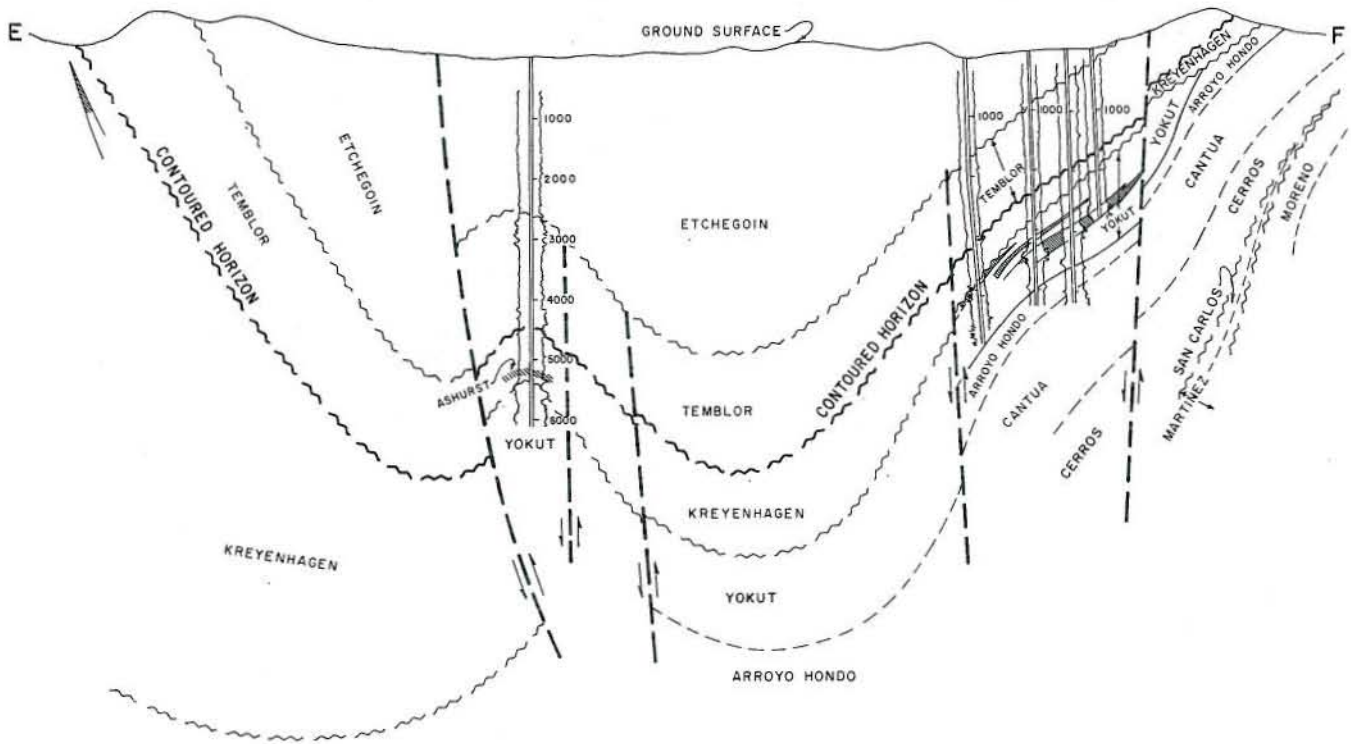


# VALLECITOS OIL FIELD

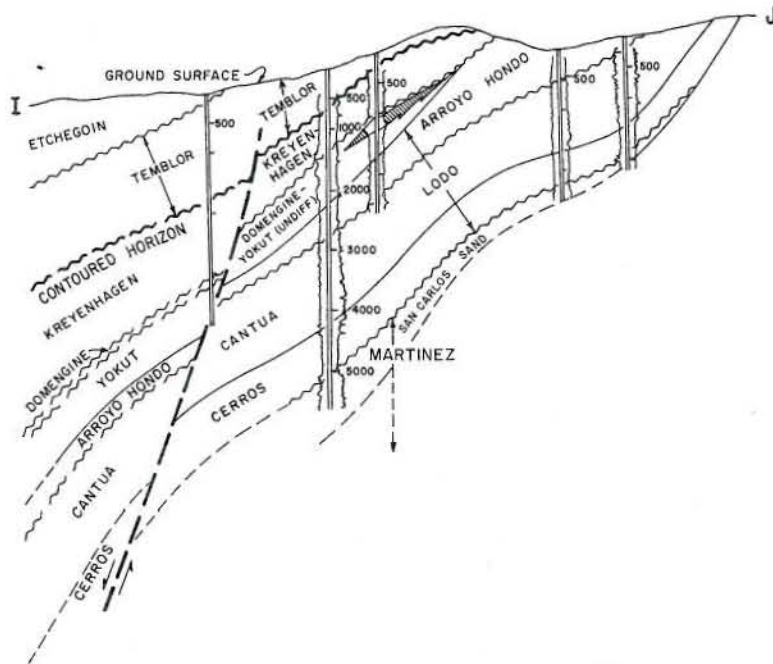



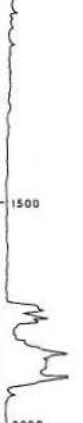


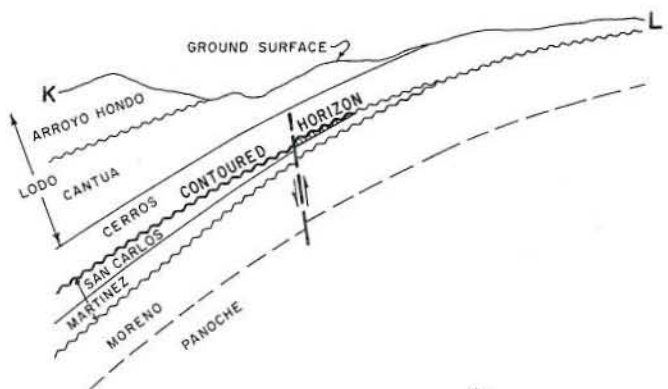
# VALLECITOS OIL FIELD



# VALLECITOS OIL FIELD



SERIES	FORMATION AND MEMBER	TYPICAL ELECTRIC LOG
EOCENE	CANTUA SAND	
	LODO	
PALEOCENE	CERROS SHALE	
	SAN CARLOS SAND	
MARTINEZ		
UPPER CRETACEOUS	MORENO	



# CALIFORNIA DIVISION OF OIL AND GAS

VALLECITOS OIL FIELD

San Benito County

LOCATION: 25 miles northwest of Coalinga

TYPE OF TRAP: See areas

ELEVATION: 1,560 - 2,725

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
San Carlos	Aubrey A. Norwood "Norwood" 5	The Texas Co. "Nicholas" 1	28 16S 12E	MD	33	0	Jul 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Artnell Co. & Artnell Oil & Gas Co. "Mohawk-Ashurst" 5-5	Same	Oct 1958	5 17S 11E	MD	9,252	Lodo	Eocene

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973) (Dry gas production data not included - see Pimental Canyon Area - Gas)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
60,056	51,135	290,663	280	21	4,339,295	3,761,542	859,911	1959	123	44	360

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: Anderson, Ralph, and R.W. Pack, Geology and Oil Resources of the West Border of the San Joaquin Valley, North of Coalinga, California: U.S. Geological Survey Bull. 603 (1915).

Atwill, E.R., Cantua - Vallecitos Area: Calif. State Div. of Mines, Bull. 118, pp. 471-474 (1943).

Ireland, William, Jr., Eighth Annual Report of the State Mineralogist: Calif. State Mining Bureau, p. 488 (1888).

Wilkinson, E.R., Vallecitos Field: Calif. Div. of Oil and Gas--Summary of Operations Vol. 45, No. 2, pp. 17-33 (1959).

# CALIFORNIA DIVISION OF OIL AND GAS

VALLECITOS OIL FIELD

ASHURST AREA (Abandoned)

San Benito County

LOCATION: See map sheet of Vallecitos Oil Field

TYPE OF TRAP: Lithofacies change on north limb of Vallecitos syncline

ELEVATION: 2,725

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Domengine - Yokut	Tesoro Petroleum Corp. "Cedar Flat-USL" 2	Intex Oil Co. "Cedar Flat-USL" 2	35 16S 11E	MD	57	0	Jun 1958

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Texaco Inc. "Cedar Flat" USL 1	Intex Oil Co. and Seaboard Oil Co. "Cedar Flat" USL 1	May 1956	35 16S 11E	MD	5,673	San Carlos	Paleocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Domengine - Yokut	1,058	60	Eocene	Domengine - Yokut	20	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	13,130	0	6,098	1959	13	2	40

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 11 3/4" cem. 280 ; 8 5/8" cemented through zone.

METHOD OF WASTE DISPOSAL:

REMARKS:

REFERENCES: Vander Leek, Lawrence, Petroleum Resources of California: Calif. State Mining Bureau Bull. 89, pp. 72 and 73 (1921).



# CALIFORNIA DIVISION OF OIL AND GAS

VALLECITOS OIL FIELD

CEDAR FLAT AREA

San Benito County

LOCATION: See map sheet of Vallecitos Oil Field

TYPE OF TRAP: Fault trap on south flank of the Ciervo anticline

ELEVATION: 2,200

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
San Carlos	Aubrey A. Norwood "Ashurst" 1	The Texas Co. "Ashurst NCT One" 1	27 16S 11E	MD	8	0	Sep 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
W.W. Holmes "McCray" 45-26	Same	Apr 1956	26 16S 11E	MD	2,466	San Carlos	Paleocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
San Carlos	1,000	70	Paleocene	Martinez	15	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,892	0	0	10	1	7,783	0	1,892	1972	12	2	20

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 10 3/4" cem. /200; 7" cem. over zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation from unlined sumps.

REMARKS:

REFERENCES: Vander Leck, Lawrence, Petroleum Resources of California: Calif. State Mining Bureau Bull. 89, p. 75 (1921).

# CALIFORNIA DIVISION OF OIL AND GAS

CENTRAL AREA

VALLECITOS OIL FIELD

San Benito County

LOCATION: See map sheet of Vallecitos Oil Field

TYPE OF TRAP: A narrow anticlinal fold against a high angle thrust fault

ELEVATION: 1,950

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Ashurst	Transco Oil Co. "Ashurst" 1A-5	Long and Hedges "H & H" 1-A	5 17S 11E	MD	100	9	Jul 1955
Yokut	Vallecitos Oil Co. "F. & I." 58-31	Shell Oil Co. "F. & I." 58-31	31 16S 11E	MD	441	110	Jul 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Artnell Co. and Artnell Oil & Gas Co. "Mohawk-Ashurst" 5-5	Same	Oct 1958	5 17S 11E	MD	9,252	Lodo	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ('API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Ashurst	5,350	60	Eocene	Kreyenhagen	37	N.A.	None
Yokut	3,300	300	Eocene	Yokut	35	110	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
37,188	36,380	249,370	130	7	3,016,889	2,910,158	509,580	1959	26	14	130

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 100

CURRENT CASING PROGRAM: 9 5/8" cem. 500; 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: 247,824 bbl. of waste water was injected during 1972 into one disposal well; percolation and evaporation from unlined sumps

REMARKS:

REFERENCES: Vander Leek, Lawrence, Petroleum Resources of California: Calif. State Mining Bureau Bull. 89, pp. 71 and 72 (1921).

# CALIFORNIA DIVISION OF OIL AND GAS

FRANCO AREA

VALLECITOS OIL FIELD

San Benito County

LOCATION: See map sheet for Vallecitos Oil Field

TYPE OF TRAP: Lenticular sands on south-dipping homocline

ELEVATION: 2,160

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Yokut	McKnight Oil Co. "Ashurst" 52A-33	Franco Western Oil Co. "Ashurst" 52A-33	33 16S 11E	MD	38	N.A.	Dec 1956

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "F. & I." 78-29	Same	Jul 1963	29 16S 11E	MD	5,183	Cantua	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Yokut	3,800	40	Eocene	Yokut	32	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
16,630	14,755	38,433	70	8	1,216,047	846,829	341,336	1959	21	12	80

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 100 ± (no log of uppermost strata)

CURRENT CASING PROGRAM: 10 3/4" cem. 250; 7" or 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation from unlined sumps.

REMARKS:

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

GRISWOLD CANYON AREA

VALLECITOS OIL FIELD

San Benito County

LOCATION: See map sheet of Vallecitos Oil Field

TYPE OF TRAP: Tar seal

ELEVATION: 1,660

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
San Carlos Martinez Moreno	T. B. Hess "Panoche" 1	Panoche Petroleum Co. "Panoche" 1	24 16S 10E	MD	16	0	Sep 1950

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Ortiz" 48-24	Same	Jul 1958	24 16S 10E	MD	8,090	Lodo	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
San Carlos Martinez	80 - 759	80	Paleocene	Martinez	23	N.A.	None
	200 - 1,000	50	Paleocene	Martinez	23	N.A.	None
	80 - 1,300	100	Cretaceous	Moreno	36	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
232	0	0	20	1	12,830	0	1,542	1951	17	4	30

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 10 3/4" or 9 5/8" cem. 100; 7" or 5 1/2" cem. through zone.

METHOD OF WASTE DISPOSAL: No water has been produced from this area.

REMARKS: Some oil was produced from a 70-foot, hand-dug well called "Rebecca" 1 in 1910, Sec. 19, T. 16S, R. 11E, M.D.B.M. and a minor amount was produced during the drilling of "Panoche" 1 in 1944.

REFERENCES: Vander Leek, Lawrence, Petroleum Resources of California; Calif. State Mining Bureau Bull. 89, pp. 72 and 73 (1921).



# CALIFORNIA DIVISION OF OIL AND GAS

LOS PINOS CANYON AREA (Abandoned)

VALLECITOS OIL FIELD

San Benito County

LOCATION: See map sheet of Vallecitos Oil Field

TYPE OF TRAP: Lithofacies change on steeply dipping homocline

ELEVATION: 2,180

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Kreyenhagen	Neaves Petroleum Developments "Neaves-Vallecitos" 1	Calzona Exploration Co. "Calzona" 1	8 17S 11E	MD	5	0	Apr 1958

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Neaves Petroleum Developments "Neaves-Vallecitos" 2	Same	Oct 1958	17 17S 11E	MD	5,056	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Kreyenhagen	420	45	late Eocene	Kreyenhagen	26	N.A.	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	312	0	287	1958	11	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 100

CURRENT CASING PROGRAM: 13 3/8" cem. 216; 5" cemented through zone.

METHOD OF WASTE DISPOSAL: Sump.

REMARKS:

REFERENCES: Vander Leck, Lawrence, Petroleum Resources of Calif.: Calif. State Mining Bureau Bull. 89, p. 71 (1921).

# CALIFORNIA DIVISION OF OIL AND GAS

VALLECITOS OIL FIELD

San Benito County

PIMENTAL CANYON AREA - GAS (Abandoned)

LOCATION: See map sheet of Vallecitos Oil Field

TYPE OF TRAP: Anticline tightly folded against upthrown north side of the Vallecitos thrust fault

ELEVATION: 2,125

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial production			Date of completion
					Daily (Mcf)	Flow pressure (psi)	Bean size (in)	
Yokut	Shell Oil Co. "Breckenridge" 31-25	Same as present	35 16S 10E	MD	5,000	700	32/64	Sep 1957

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "Briggs" 6-36	Same	Aug 1957	36 16S 10E	MD	6,002	Kreyenhagen	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Gas (btu)	Salinity of zone water gr/gal	Original zone pressure (psi)	Class BOPE required
			Age	Formation				
Yokut	2,500	125	early Eocene	Yokut	945	65	1,200	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production		1972 Proved acreage	1972 Maximum number producing wells	Cumulative gas production (Mcf)	Peak gas production		Total number of wells		Maximum proved acreage
Net gas (Mcf)	Water (bbl)				(Mcf)	Year	Drilled	Completed	
0	0	0	0	1,738,443	697,446	1960	7	1	40

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 9 5/8" cem. 400; 5 1/2" cemented through zone.

METHOD OF WASTE DISPOSAL:

REMARKS:

REFERENCES:

# CALIFORNIA DIVISION OF OIL AND GAS

SILVER CREEK AREA

VALLECITOS OIL FIELD

San Benito County

LOCATION: See map sheet of Vallecitos Oil Field

TYPE OF TRAP: Angular unconformity on south flank of Ciervo anticline

ELEVATION: 1,560

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
San Carlos	Aubrey A. Norwood "Norwood" 5	The Texas Co. "Nicholas" 1	28 16S 12E	MD	33	0	Jul 1948

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Idria Petroleum Corp. "Barnett-USL" 1	Same	Oct 1953	33 16S 12E	MD	2,417	San Carlos	Paleocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
San Carlos	1,180	32	Paleocene	Martinez	25	N.A.	II

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
4,114	0	2,860	50	4	72,304	4,557	7,848	1952	23	9	50

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 500

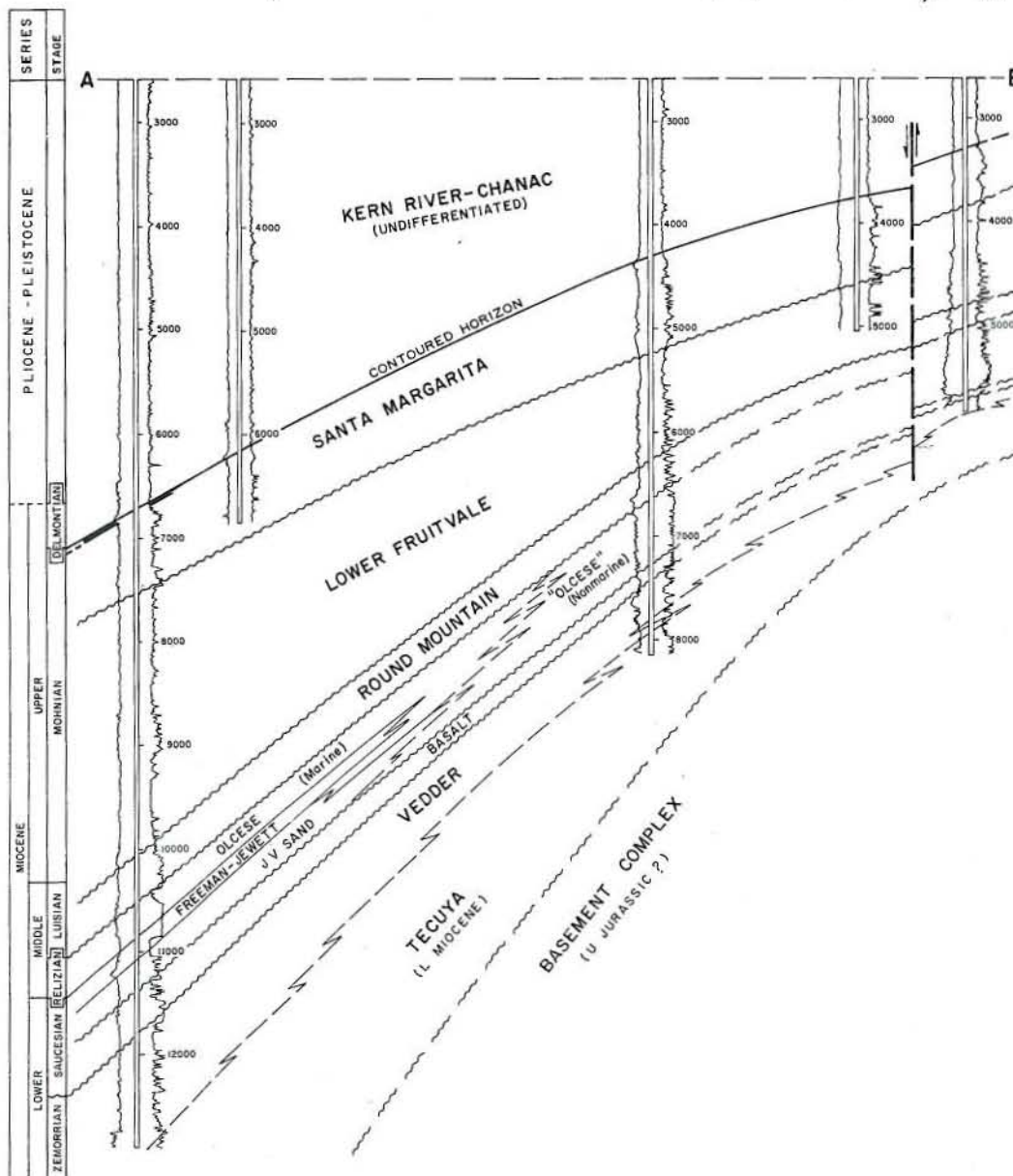
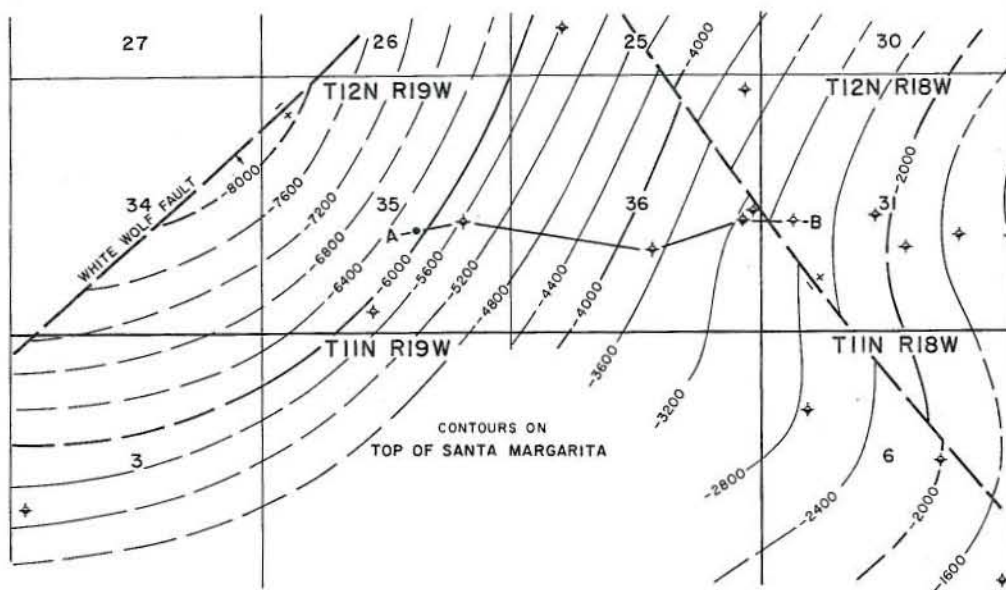
CURRENT CASING PROGRAM: 10 3/4" cem. 200; 7" cem. above zone; 4 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Sumps.

REMARKS:

REFERENCES: Anderson, Ralph and R.W. Pack, Geology and Oil Resources of the West Border of the San Joaquin Valley North of Coalinga, Calif.: U.S. Geological Survey Bull. 603 (1915).  
Vander Leek, Lawrence, Petroleum Resources of Calif.: Calif. State Mining Bureau Bull. 89, pp. 75-76 (1921).

# VALPREDO OIL FIELD





# CALIFORNIA DIVISION OF OIL AND GAS

VALPREDO OIL FIELD

Kern County

LOCATION: 20 miles southeast of Bakersfield

TYPE OF TRAP: Permeability variation on a homocline

ELEVATION: 560

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Santa Margarita	K.R. Evans, Oper. "S.P.-48" 1	Phillips Petroleum Co. "S.P.-48" 1	35 12N 19W	SB	103	N.A.	Nov 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Same as discovery well	Same	May 1961	35 12N 19W	SB	12,894	Tecuya	Oligocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Santa Margarita	6,700	40	late Miocene	Santa Margarita	27	1,200	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
5,306	0	59,974	10	1	73,030	9,817	9,406	1962	2	1	10

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 5,700

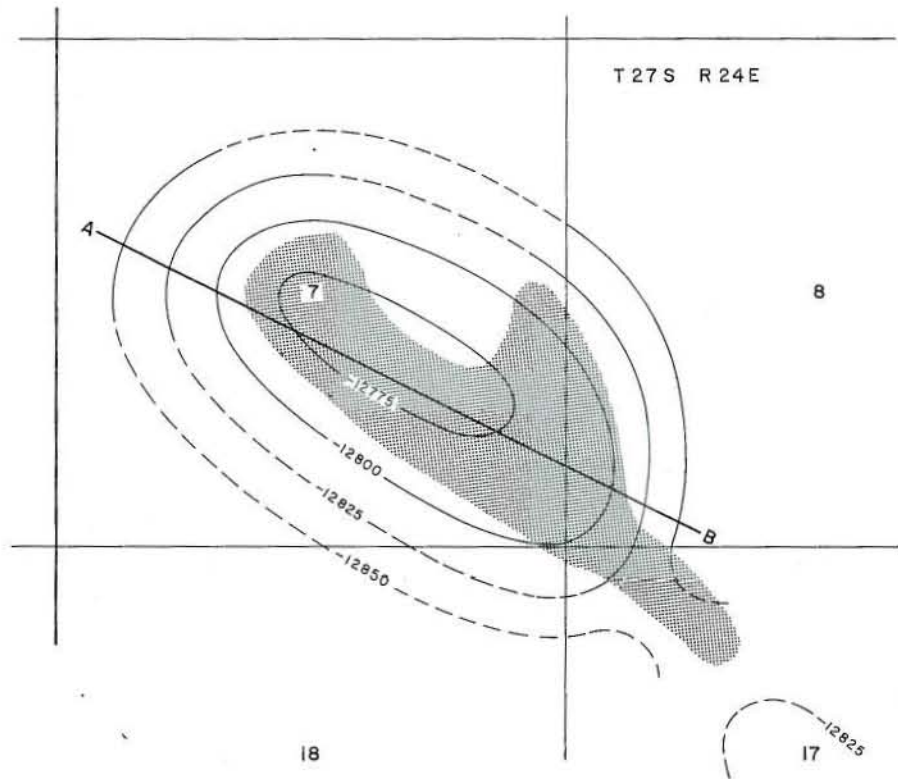
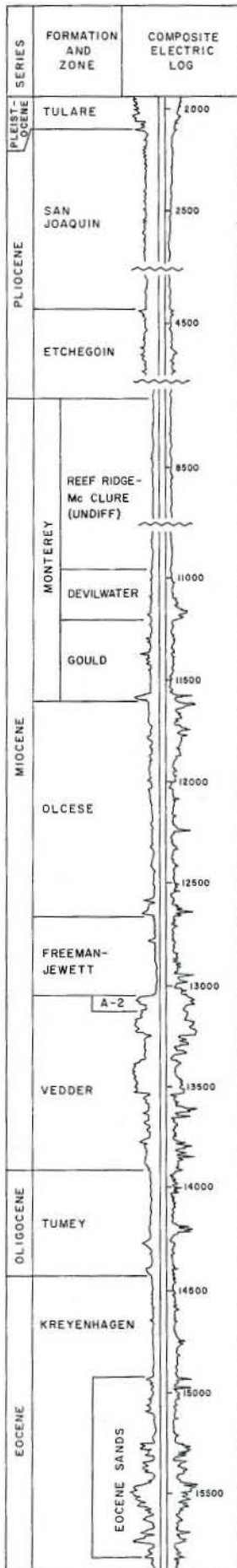
CURRENT CASING PROGRAM: 11 3/4" cem. 500; 7" cem. above zone and across base of fresh-water sands; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

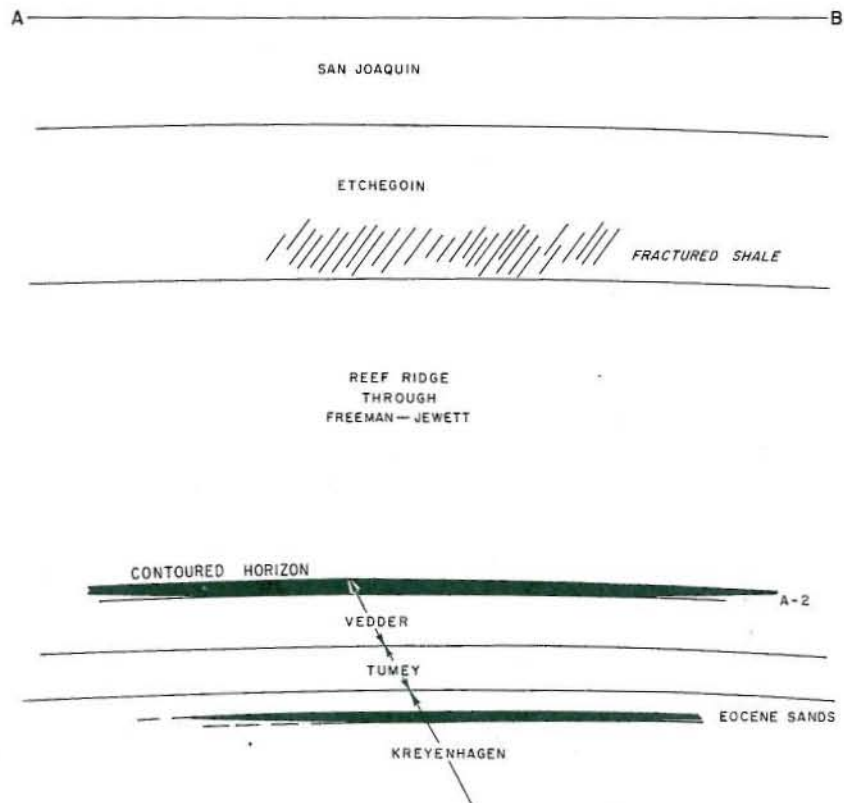
REMARKS: Only one well was completed in the field.

REFERENCES: Welge, E.A., Valpredo Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 55, No. 1 (1969).

# WASCO OIL FIELD (Abandoned)



CONTOURS ON TOP OF VEDDER



## CALIFORNIA DIVISION OF OIL AND GAS

WASCO OIL FIELD (Abandoned)

Kern County

LOCATION: 27 miles northwest of Bakersfield

TYPE OF TRAP: Anticline

ELEVATION: 275

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Fractured Shale	Continental Oil Co. "K.C.L." A-1-8	Continental Oil Co. "K.C.L." A-1	8 27S 24E	MD	25	N.A.	Nov 1936
Vedder	Continental Oil Co. "K.C.L." A-2-8	Continental Oil Co. "K.C.L." A-2	8 27S 24E	MD	3,663	1,720	Jun 1937
Eocene	Standard Oil Co. of Calif. "Mushrush" 5	Same as present	7 27S 24E	MD	354	965	Sep 1949

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "Mushrush" 5	Same	Feb 1949	7 27S 24E	MD	15,866	Kreyenhagen	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (+API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Fractured Shale	7,200	500	Pliocene	Etchegoin	21	1,600	III
Vedder	13,000	40	early Miocene	Vedder	32 - 39	1,220	IV
Eocene	15,000	275	Eocene	Kreyenhagen	40	1,140	V

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	5,071,409	3,276,043	822,751	1944	19	14	270

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: 1,400

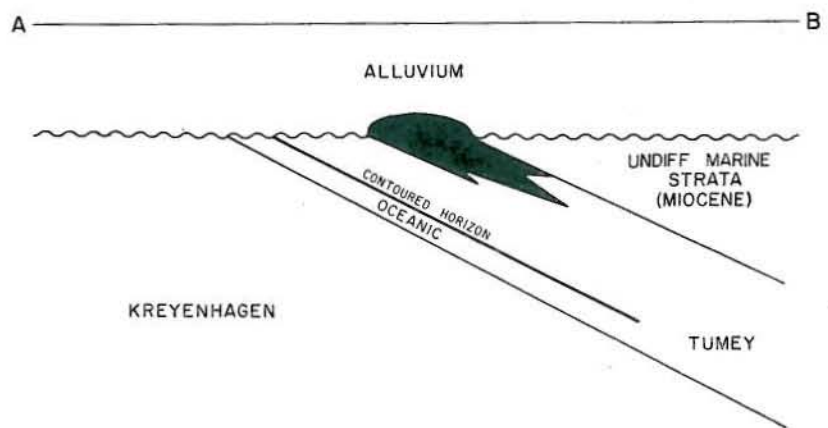
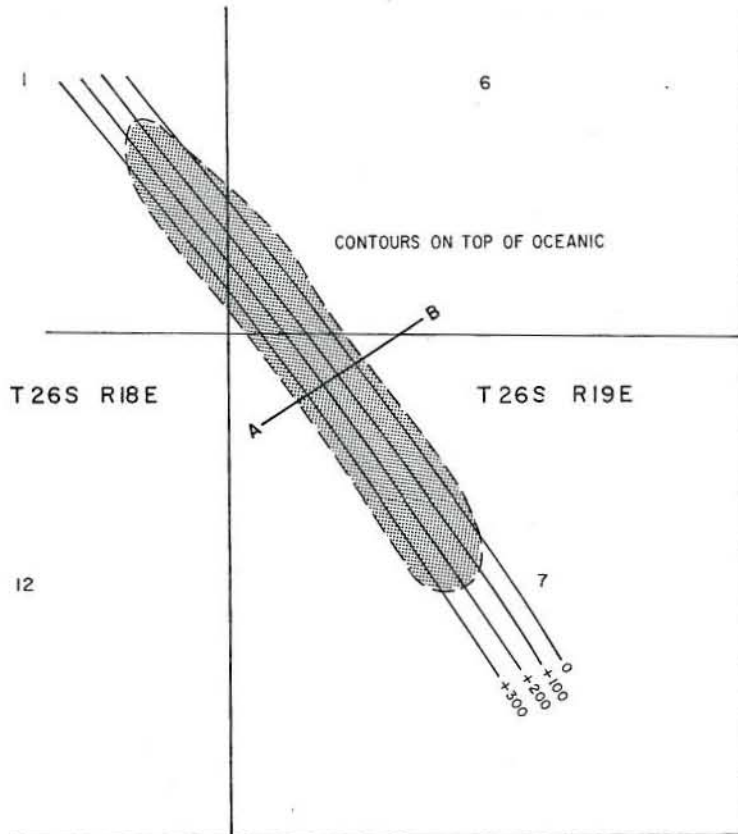
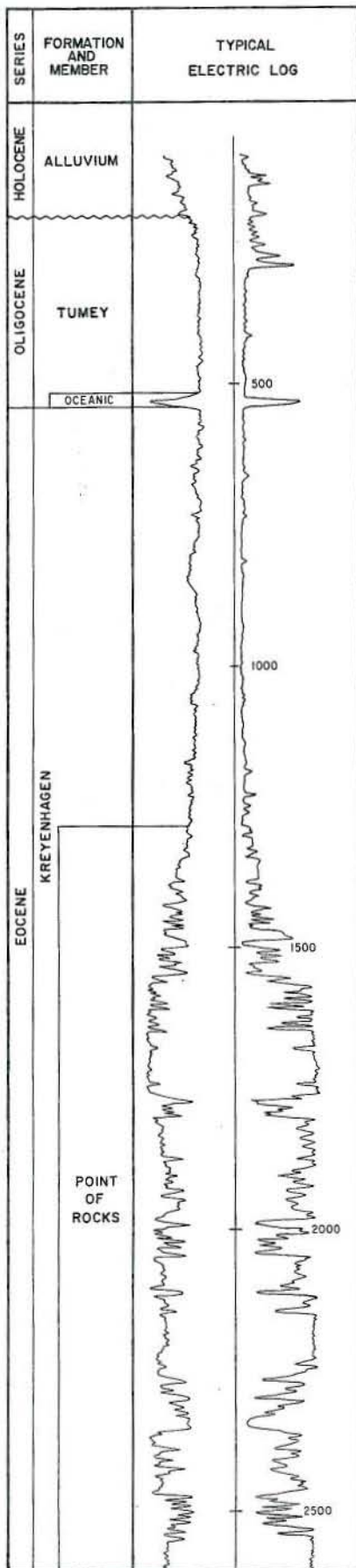
CURRENT CASING PROGRAM: 13 3/8" cem. 1,000; 9 5/8" cem. 8,000 and across base of fresh-water sands; 6 5/8" cem. above zone; 4 3/4" liner landed through zone.

METHOD OF WASTE DISPOSAL:

REMARKS: The field was abandoned in May 1960.

REFERENCES: Bailey, W.C., Wasco Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 24, No. 3 (1959).

# WELCOME VALLEY OIL FIELD





## CALIFORNIA DIVISION OF OIL AND GAS

WELCOME VALLEY OIL FIELD

Kern County

LOCATION: 52 miles northwest of Taft

TYPE OF TRAP: Fractured shale with a tar seal at the angular unconformity

ELEVATION: 575

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tuney	Great Western Drilling "MacKessy" 1-A	M.R. Peck Drilling Contractor "Beer" 1-A	7 26S 19E	MD	3	N.A.	Jan 1952

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Great Western Drilling "Eddyell" 2	Edward Lustgarten and Ned Bamore "Eddyell" 2	Oct 1956	7 26S 19E	MD	2,611	Point of Rocks	Eocene

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tuney	100	100	Oligocene	Tuney	12	400	None

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,366	0	1,340	110	6	31,371	0	3,874	1953	60	43	110

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 16" conductor cem. 10; no other casing used.

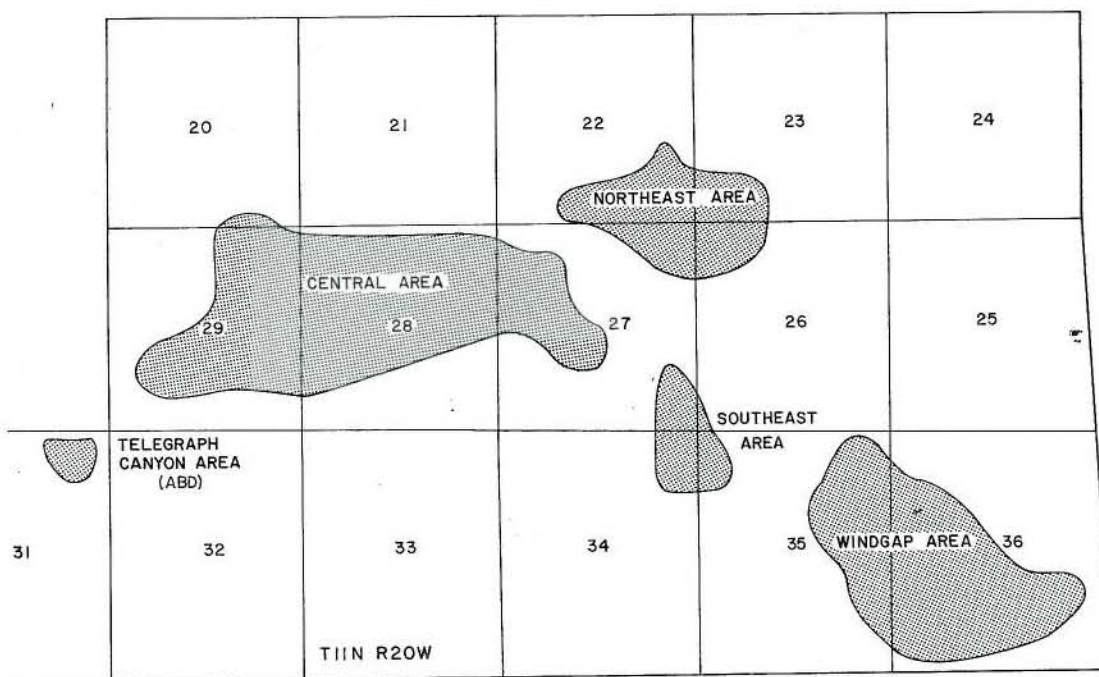
METHOD OF WASTE DISPOSAL: Evaporation and percolation sumps.

REMARKS:

REFERENCES:

# WHEELER RIDGE OIL FIELD

## Index Map



# CALIFORNIA DIVISION OF OIL AND GAS

WHEELER RIDGE OIL FIELD

Kern County

LOCATION: 25 miles south of Bakersfield

TYPE OF TRAP: See areas

ELEVATION: 750 - 2,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Main	Tenneco West, Inc. No. 1	Standard Oil Co. of Calif. "Kern County Lease No. 2" 1	28 11N 20W	SB	275	N.A.	Nov 1922

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Standard Oil Co. of Calif. "KCL 2" 337	Samo	Aug 1952	27 11N 20W	SB	12,514	Tejon	late Eo

## PRODUCING ZONES (See areas)

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
1,441,449	1,744,530	2,180,271	1,320	126	45,508,534	82,153,370	2,588,627	1956	235	195	1,610

## STIMULATION DATA (Jan. 1, 1973) (See areas)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: See areas.

BASE OF FRESH WATER: See areas.

CURRENT CASING PROGRAM: See areas.

METHOD OF WASTE DISPOSAL: See areas.

REMARKS:

REFERENCES: See areas.

# CALIFORNIA DIVISION OF OIL AND GAS

TELEGRAPH CANYON AREA (Abandoned)

WHEELER RIDGE OIL FIELD

Kern County

LOCATION: See index map of Wheeler Ridge Oil Field

TYPE OF TRAP: Anticline with permeability barrier across crest of structure

ELEVATION: 1,700

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Tejon	Atlantic Richfield Co. "K.C.L. D" 84-31	Richfield Oil Corp. "K.C.L. D" 84-31	31 11N 20W	SB	31	N.A.	Aug 1955

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "San Emidio B" 2	Richfield Oil Corp. "San Emidio B" 2	Jul 1954	31 11N 20W	SB	11,938	Tejon	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API" or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Tejon	10,580	60	late Eocene	Tejon	50	1,820	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
0	0	0	0	0	99,785	2,005,872	60,590	1957	4	3	30

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
--			

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 11 3/4" cem. 1,000; 7" cem. above zone; 5 1/2" liner landed through zone.

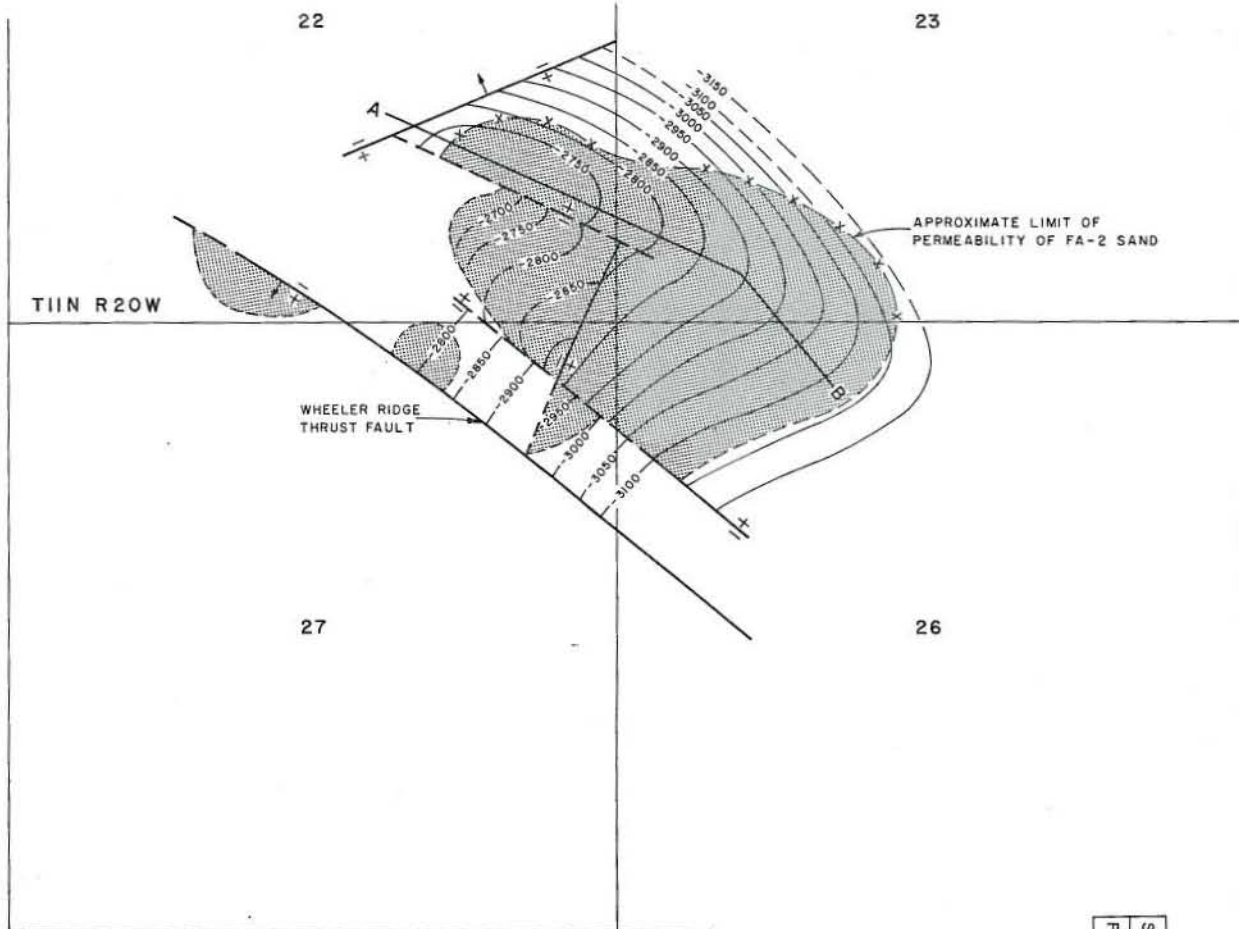
METHOD OF WASTE DISPOSAL:

REMARKS: Area was abandoned in 1963.

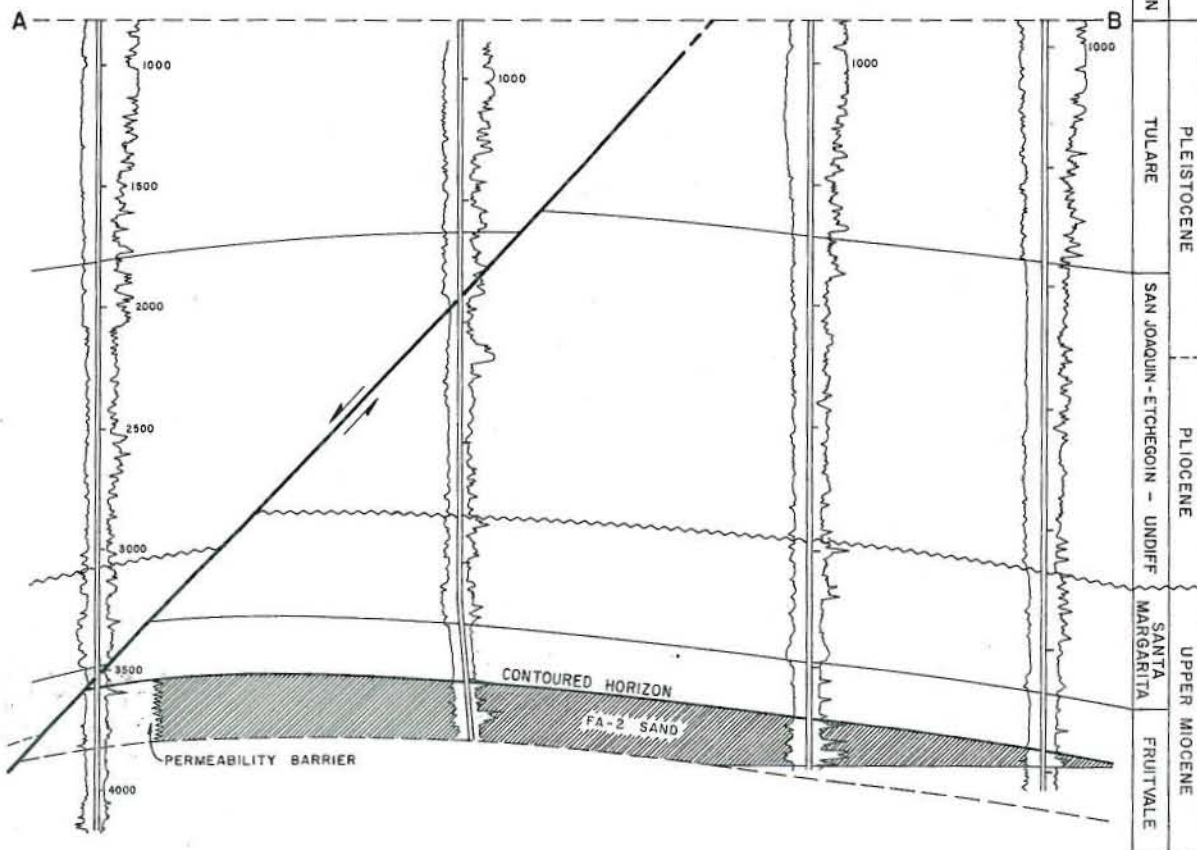
REFERENCES:



# WHEELER RIDGE OIL FIELD Northeast Area



CONTOURS ON TOP OF THE FA-2 SAND



SERIES	FORMATION
PLEISTOCENE	TULARE
PLIOCENE	SAN JOAQUIN - ETCHEGOIN - UNDIFF
UPPER MIOCENE	SANTA MARGARITA
	FRUITVALE

# CALIFORNIA DIVISION OF OIL AND GAS

NORTHEAST AREA

WHEELER RIDGE OIL FIELD

Kern County

LOCATION: See index map of Wheeler Ridge Oil Field

TYPE OF TRAP: Faulted anticlinal nose and permeability barriers

ELEVATION: 750 - 1,300

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
FA-2	Atlantic Richfield Co. "ROC-KCL G" 87-22	Richfield Oil Corp. "KCL G" 87-22	22 11N 20W	S8	106	20	May 1955
Hagood	Atlantic Richfield Co. "Hagood" 38-22	Richfield Oil Corp. "Hagood" 38-22	22 11N 20W	S8	82	9	Oct 1955
ZB-1	Atlantic Richfield Co. "KCL S" 61-27	Richfield Oil Corp. "KCL S" 61-27	27 11N 20W	S8	18	40	Jan 1964

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "KCL S" 61-27	Richfield Oil Corp. "KCL S" 61-27	Oct 1963	27 11N 20W	S8	11,972	Tejon	late Eo

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
FA-2	2,900	240	late Miocene	Fruitvale	18	430	III
Hagood	5,100	73	late Miocene	Fruitvale	17	N.A.	IV
ZB-1	8,758	22	early Miocene	Vedder	39	N.A.	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
13,881	3,806	56,329	100	6	1,168,320	326,785	255,508	1956	21	17	160

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: None

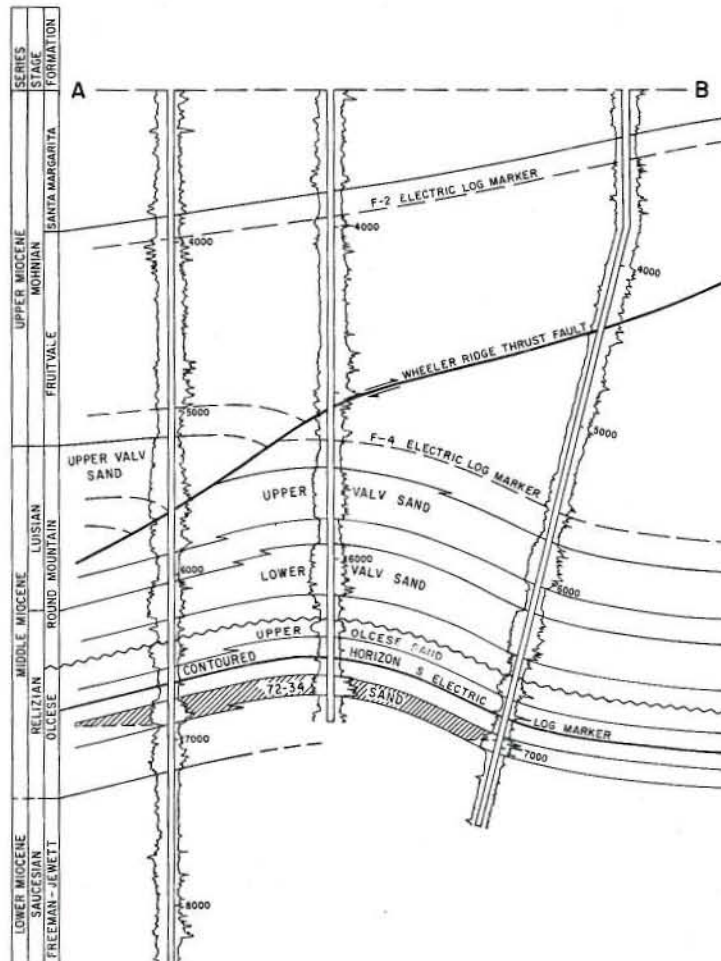
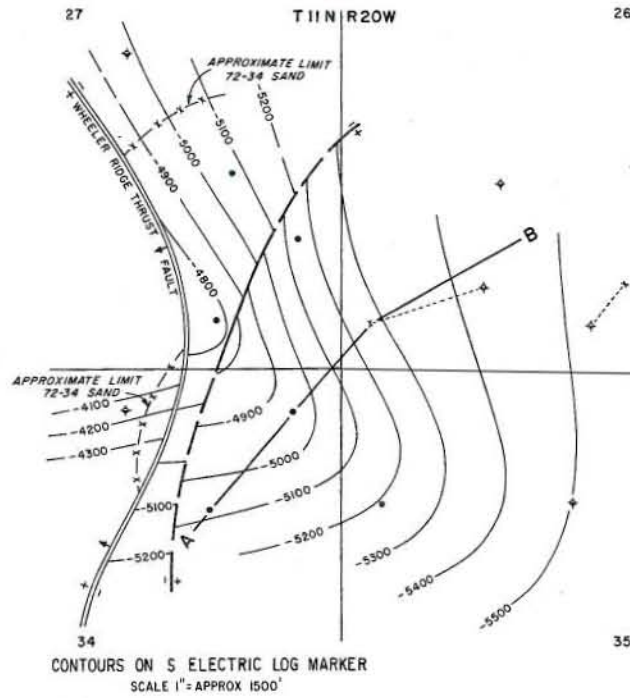
CURRENT CASING PROGRAM: 8 5/8" or 7" cem. above zone; 6 5/8" or 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation from unlined sumps located on marine outcrop.

REMARKS:

REFERENCES: Hluza, A.G., Northeast Area of Wheeler Ridge Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 2 (1960).

# WHEELER RIDGE OIL FIELD Southeast Area



# CALIFORNIA DIVISION OF OIL AND GAS

SOUTHEAST AREA

WHEELER RIDGE OIL FIELD

Kern County

LOCATION: See index map of Wheeler Ridge Oil Field

TYPE OF TRAP: Faulted anticlinal nose and permeability barriers

ELEVATION: 1,250 - 2,000

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
72-34	Atlantic Richfield Co. "KCL L" 72-34	Richfield Oil Corp. "KCL L" 72-34	34 11N 20W	SB	149	216	Sep 1961

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "ROC-KCL G" 65-27	Richfield Oil Corp. "ROC KCL G" 65-27	Jul 1955	27 11N 20W	SB	9,823	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (*API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
72-34	6,875	130	m Miocene	Olcese	43	2,600	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
22,513	43,057	1,287	90	4	878,342	2,843,337	282,474	1962	11	6	100

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1970	36,554	1

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 11 3/4" cem. 600; 7" cem. above zone; 5 1/2" liner landed through zone.

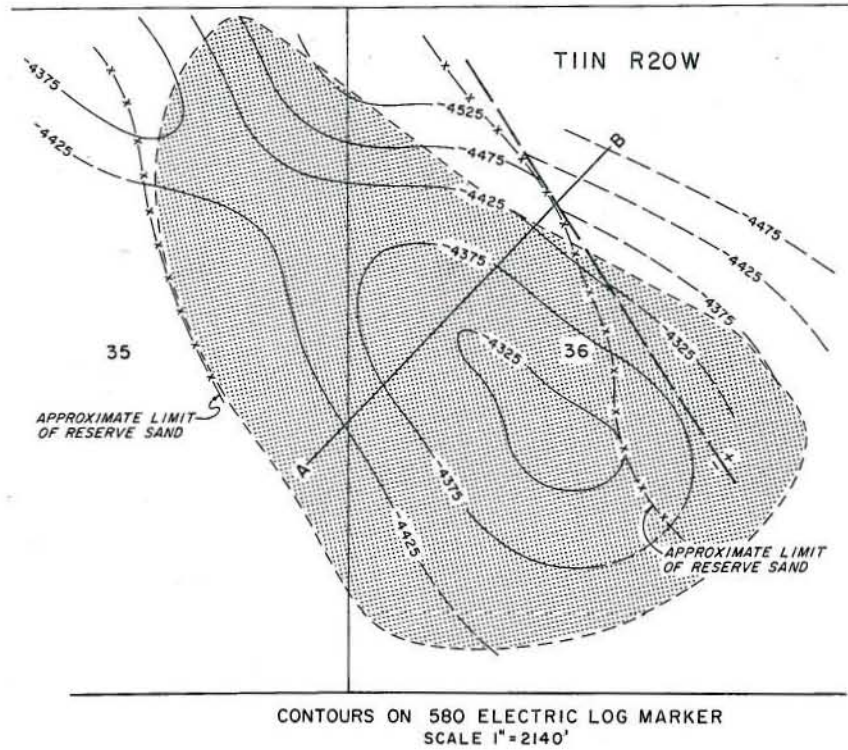
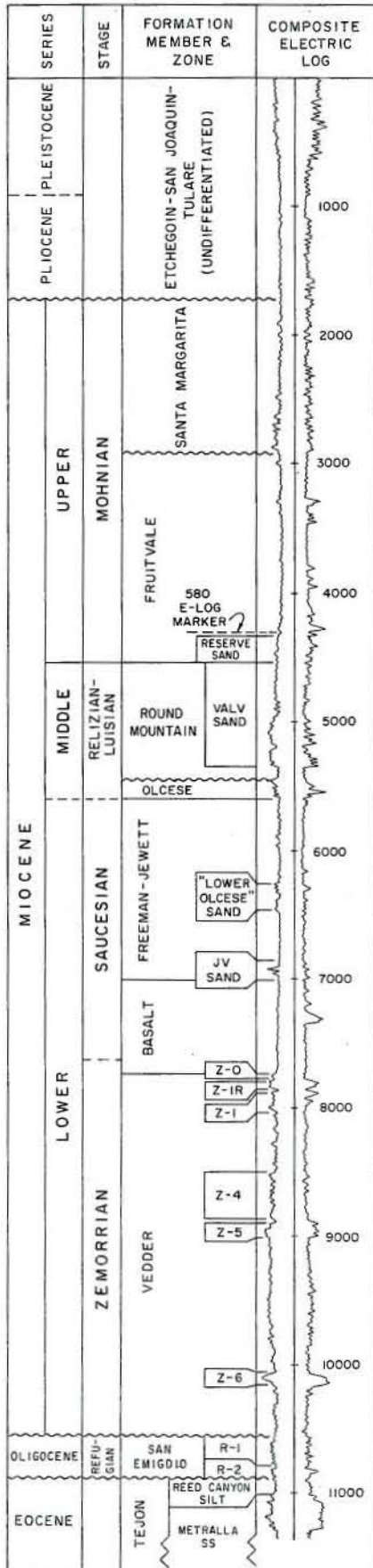
METHOD OF WASTE DISPOSAL: Injection into water-flood wells.

REMARKS:

REFERENCES: Barnes, J.A., Southeast Area of Wheeler Ridge Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 50, No. 2 (1964).



# WHEELER RIDGE OIL FIELD Windgap Area



# CALIFORNIA DIVISION OF OIL AND GAS

WHEELER RIDGE OIL FIELD

WINDGAP AREA

Kern County

LOCATION: See index map of Wheeler Ridge Oil Field

TYPE OF TRAP: Anticline and permeability barrier

ELEVATION: 1,000 - 1,250

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
Reserve "Lower Olcese"	Atlantic Richfield Co. "KCL L" 36-36	Richfield Oil Corp. "KCL L" 36-36	36 11N 20W	SB	244	53	Sep 1959
	Atlantic Richfield Co. "KCL L" 56-36	Richfield Oil Corp. "KCL L" 56-36	36 11N 20W	SB	76	1,595	May 1959

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Atlantic Richfield Co. "KCL F" 63-36	Richfield Oil Corp. "KCL F" 63-36	Apr 1956	36 11N 20W	SB	10,019	Vedder	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity (°API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
Reserve "Lower Olcese"	5,600	170	late Miocene	Fruitvale	21	600	IV
	7,400	40	early Miocene	Freeman-Jewett	64	2,000	IV

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
645,642	152,957	1,101,908	510	27	10,812,841	9,117,994	1,623,974	1969	51	40	565

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection
Water flood	1962	14,858,992	10

SPACING ACT: Applies

BASE OF FRESH WATER: 1,800

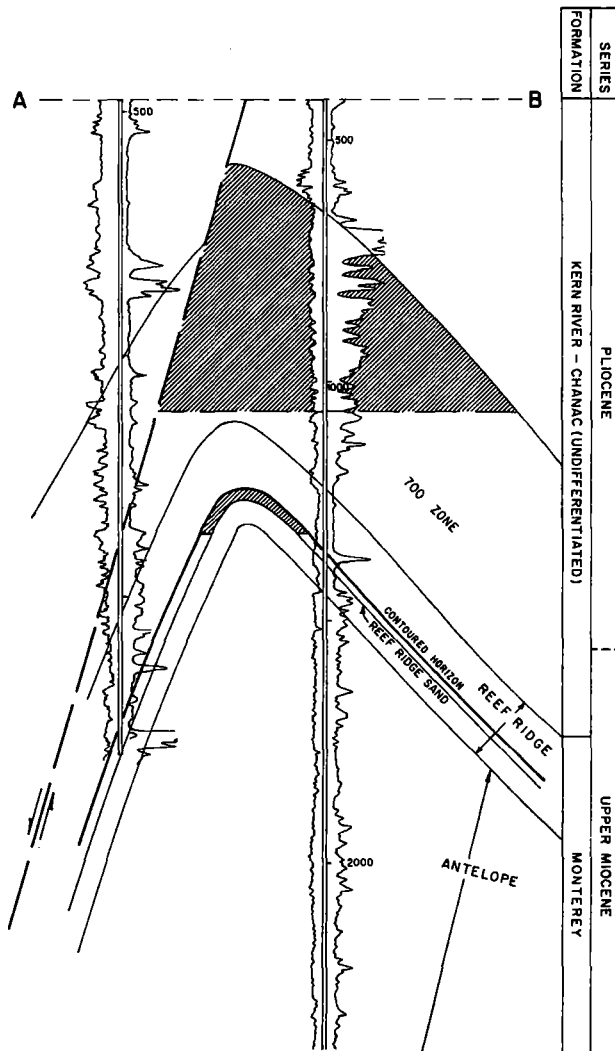
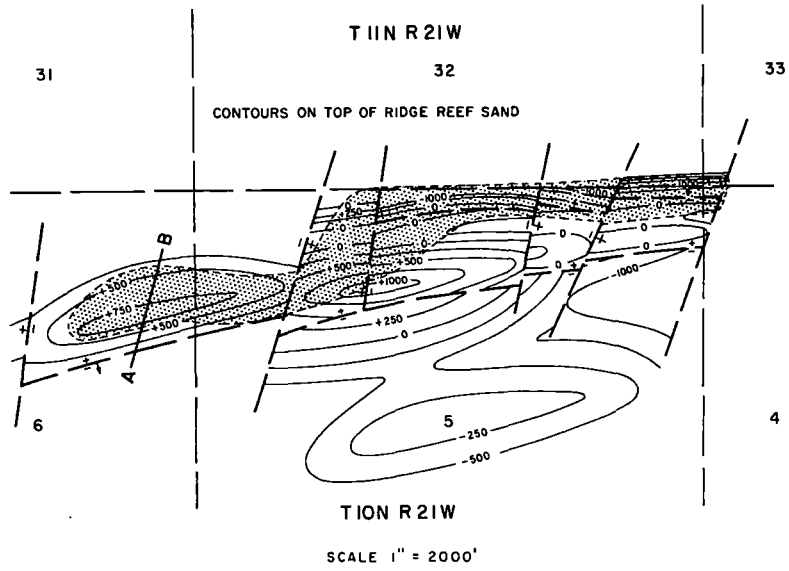
CURRENT CASING PROGRAM: 12 3/4" cem. 600 - 700; 7" cem. above zone and across base of fresh-water sands; 5" liner landed through zone.

METHOD OF WASTE DISPOSAL: Injection into water flood wells.

REMARKS: A total of 1,653,000 Mcf of gas was injected into one well for pressure maintenance from 1960 to 1968.

REFERENCES: Park, W.H., Windgap Area of Wheeler Ridge Oil Field: Calif. Div. of Oil and Gas, Summary of Operations--Calif. Oil Fields, Vol. 46, No. 2 (1960).

# WHITE WOLF OIL FIELD



# CALIFORNIA DIVISION OF OIL AND GAS

WHITE WOLF OIL FIELD

Kern County

LOCATION: 20 miles southeast of Maricopa

TYPE OF TRAP: Faulted anticline

ELEVATION: 2,100

## DISCOVERY DATA

Zone	Present operator and well name	Original operator and well name	Sec. T. & R.	B & M	Initial daily production		Date of completion
					Oil (bbl)	Gas (Mcf)	
700 Sand Reef Ridge Antelope	Occidental Petroleum Corp. "KCL" 104	Same as present	S 10N 21W	SB	7	N.A.	Feb 1964
	Shell Oil Co. "KCL" 52-5	Same as present	S 10N 21W	SB	15	N.A.	Apr 1959
	Occidental Petroleum Corp. "KCL" 102	Same as present	S 10N 21W	SB	38	4	Feb 1964

Remarks:

## DEEPEST WELL DATA

Present operator and well name	Original operator and well name	Date started	Sec. T. & R.	B & M	Depth (feet)	At total depth	
						Strata	Age
Shell Oil Co. "KCL" 68-32	Same	Oct 1958	32 11N 21W	SB	10,133	Antelope	early Mio

## PRODUCING ZONES

Zone	Average depth (feet)	Average net thickness (feet)	Geologic		Oil gravity ("API) or Gas (btu)	Salinity of zone water gr/gal	Class BOPE required
			Age	Formation			
700 Sand Reef Ridge Antelope	815	350	Pliocene	Etchegoin	16	N.A.	III
	2,800	200	late Miocene	Monterey	14	N.A.	III
	1,770	740	late Miocene	Monterey	14	N.A.	III

## PRODUCTION DATA (Jan. 1, 1973)

1972 Production			1972 Proved acreage	1972 Average number producing wells	Cumulative production		Peak oil production		Total number of wells		Maximum proved acreage
Oil (bbl)	Net gas (Mcf)	Water (bbl)			Oil (bbl)	Gas (Mcf)	Barrels	Year	Drilled	Completed	
38,021	0	9,751	110	7	732,764	0	176,664	1965	31	22	170

## STIMULATION DATA (Jan. 1, 1973)

Type of project	Date started	Cumulative injection - Water, bbl; Gas, Mcf; Steam, bbl (water equivalent)	Maximum number of wells used for injection

SPACING ACT: Applies

BASE OF FRESH WATER: None

CURRENT CASING PROGRAM: 10 3/4" cem. 500; 7" cem. above zone; 5 1/2" liner landed through zone.

METHOD OF WASTE DISPOSAL: Percolation and evaporation sumps.

REMARKS: A cyclic-steam injection project was begun in the Reef Ridge zone in 1964 and terminated after 111,238 bbls. was injected.

REFERENCES: