

<b>Western Wireline</b> Radial Cement Bond Log w/ Gamma Ray / CCL (RCBL/GR/CCL)		Company Southern California Gas Company Standard Season #25 Well Aliso Canyon Field Aliso Canyon County Los Angeles State California Location California Country U.S.A.		Company Southern California Gas Company Standard Season #25 Well Aliso Canyon Field Aliso Canyon County Los Angeles State California Location California Country U.S.A.	
Run Number: 237 Run Date: 11/15/2016 Run Time: 11:14:15 AM Run User: D.A. Hill Run Location: 11000 M Run Depth: 8196 ft Run Status: OK Run Type: Normal Run Mode: Normal Run Orientation: Normal Run Depth: 8196 ft Run Status: OK Run Type: Normal Run Mode: Normal Run Orientation: Normal	Log Number: 1 Log Date: 11/15/2016 Log Time: 11:14:15 AM Log User: D.A. Hill Log Location: 11000 M Log Depth: 8196 ft Log Status: OK Log Type: Normal Log Mode: Normal Log Orientation: Normal	Log Number: 1 Log Date: 11/15/2016 Log Time: 11:14:15 AM Log User: D.A. Hill Log Location: 11000 M Log Depth: 8196 ft Log Status: OK Log Type: Normal Log Mode: Normal Log Orientation: Normal	Log Number: 1 Log Date: 11/15/2016 Log Time: 11:14:15 AM Log User: D.A. Hill Log Location: 11000 M Log Depth: 8196 ft Log Status: OK Log Type: Normal Log Mode: Normal Log Orientation: Normal	Log Number: 1 Log Date: 11/15/2016 Log Time: 11:14:15 AM Log User: D.A. Hill Log Location: 11000 M Log Depth: 8196 ft Log Status: OK Log Type: Normal Log Mode: Normal Log Orientation: Normal	Log Number: 1 Log Date: 11/15/2016 Log Time: 11:14:15 AM Log User: D.A. Hill Log Location: 11000 M Log Depth: 8196 ft Log Status: OK Log Type: Normal Log Mode: Normal Log Orientation: Normal

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from an interpretation made in reliance on our part by our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

This log was witnessed by Senior Oil and Gas Engineers Alan Walker, Scott McGurk, and Scott Walker  
 Log depth control used was a D.F. of 6'

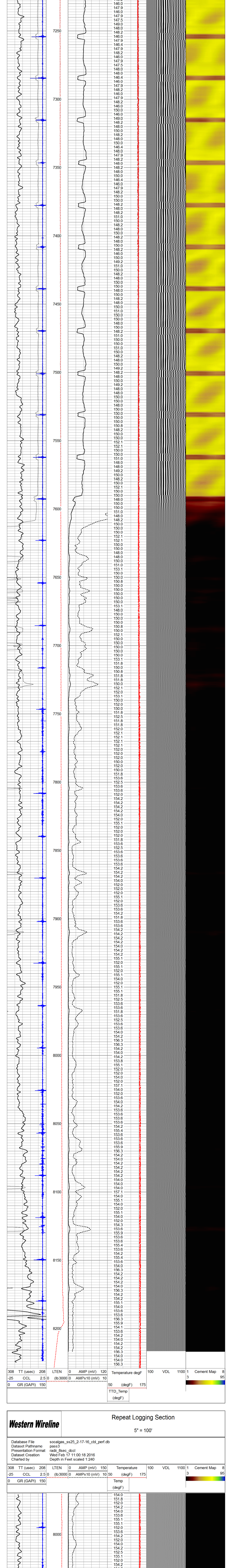
Log Variables							
PPT usec 237	CASEWGT lbft 6.5	MAXAMPL mV 106.5	MINAMPL mV 1	MINATTN dBft 0.8	SRTEMP degF 0	CASETHCK in 0	CASEOD in 2.875
PERFS 0	TDEPTH ft 8196	BOTTEMP degF 100	BOROID ft 7.875				

### Western Wireline Main Logging Section

5" = 100'

Database File: socialgas_ss25_2-17-16_cbl_perf.db	Dataset Pathname: pass4	Presentation Format: radi_8sec_dcol	Dataset Creation: Wed Feb 17 11:14:15 2016	Charted by: D.A. Hill
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308 TT (usec) 208	LTEN 0	AMP (mV) 120	Temperature degF 100	VDL 1100 1	Cement Map 8
-25 CCL 2.5 0	(lb)3000 0	AMPx10 (mV) 10	(degF) 175	3	95
0 GR (GAPI) 150					



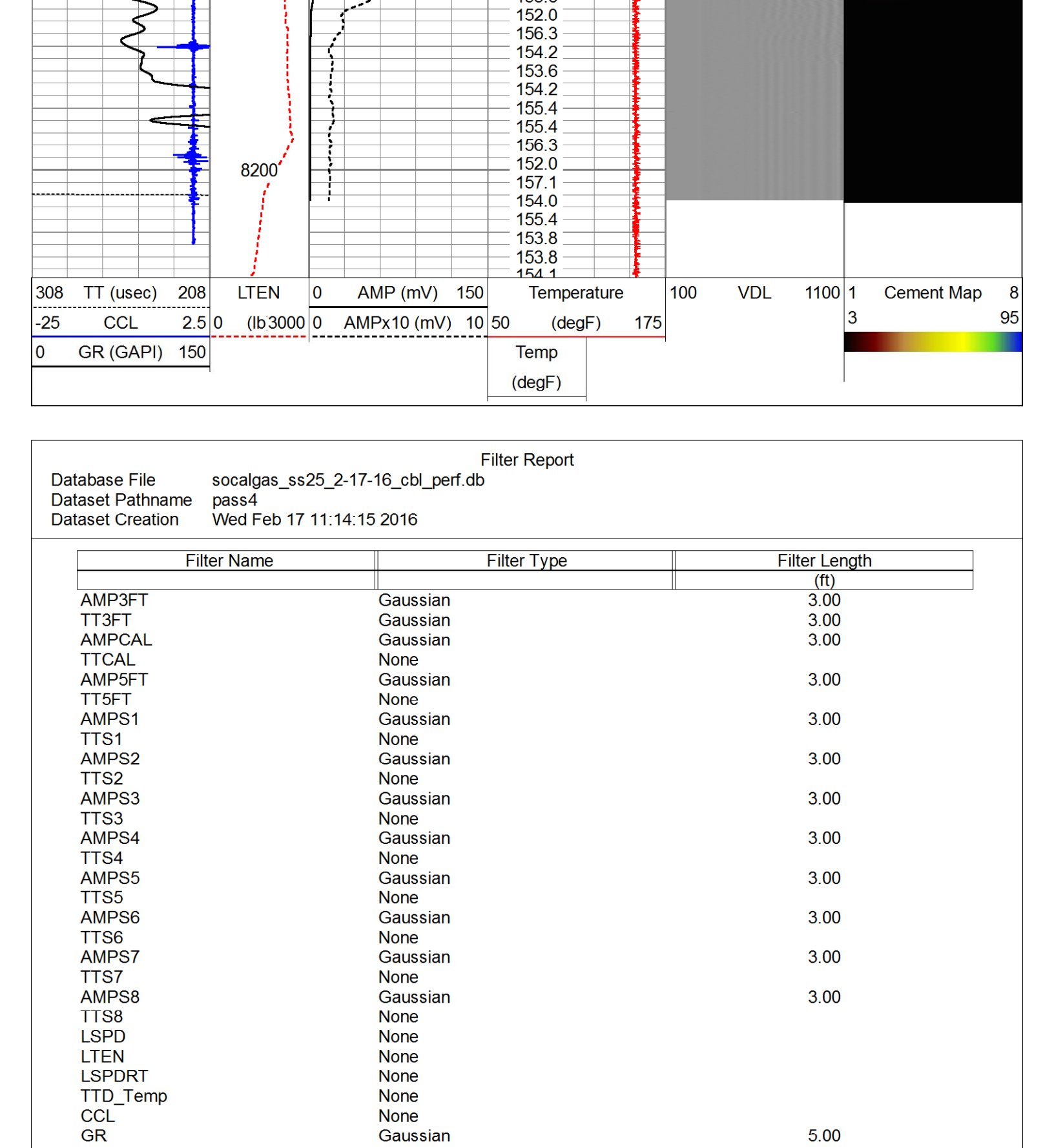
308 TT (usec) 208	LTEN 0	AMP (mV) 120	Temperature degF 100	VDL 1100 1	Cement Map 8
-25 CCL 2.5 0	(lb)3000 0	AMPx10 (mV) 10	(degF) 175	3	95
0 GR (GAPI) 150					

### Western Wireline Repeat Logging Section

5" = 100'

Database File: socialgas_ss25_2-17-16_cbl_perf.db	Dataset Pathname: pass3	Presentation Format: radi_8sec_dcol	Dataset Creation: Wed Feb 17 11:08:16 2016	Charted by: D.A. Hill
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308 TT (usec) 208	LTEN 0	AMP (mV) 150	Temperature degF 100	VDL 1100 1	Cement Map 8
-25 CCL 2.5 0	(lb)3000 0	AMPx10 (mV) 10	(degF) 175	3	95
0 GR (GAPI) 150					



308 TT (usec) 208	LTEN 0	AMP (mV) 150	Temperature degF 100	VDL 1100 1	Cement Map 8
-25 CCL 2.5 0	(lb)3000 0	AMPx10 (mV) 10	(degF) 175	3	95
0 GR (GAPI) 150					

### Filter Report

Filter Name	Filter Type	Filter Length (ft)
AMP3FT	Gaussian	3.00
TT3FT	Gaussian	3.00
AMPCAL	Gaussian	3.00
TTICAL	None	3.00
AMP5FT	Gaussian	3.00
TT5FT	None	3.00
AMPS1	Gaussian	3.00
TTS1	None	3.00
AMPS2	Gaussian	3.00
TTS2	None	3.00
AMPS3	Gaussian	3.00
TTS3	None	3.00
AMPS4	Gaussian	3.00
TTS4	None	3.00
AMPS5	Gaussian	3.00
TTS5	None	3.00
AMPS6	Gaussian	3.00
TTS6	None	3.00
AMPS7	Gaussian	3.00
TTS7	None	3.00
AMPS8	Gaussian	3.00
TTS8	None	3.00
LSPD	None	
LTEN	None	
LSPORT	None	
TTD_Temp	None	
CCL	None	5.00
GR	Gaussian	
HEADVOLT	None	

### Calibration Report

Database File: socialgas_ss25_2-17-16_cbl_perf.db	Dataset Pathname: pass4	Dataset Creation: Wed Feb 17 11:14:15 2016
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#### Gamma Ray Calibration Report

Serial Number: 169	PTS169	Wed Oct 17 09:50:13 2012
Tool Model: Performed:		
Calibrator Value: 1.0	GAPI	
Background Reading: 0.0	cps	
Calibrator Reading: 1.0	cps	
Sensitivity: 1.0000	GAPI/cps	

#### Segmented Cement Bond Log Calibration Report

Serial Number: 170	PTS170	
Tool Model: Performed:		
Calibration Casing Diameter: 5.500	in	
Calibration Depth: 0.025	ft	

Master Calibration, performed Wed Feb 17 08:54:06 2016:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3' CAL	-0.006	0.601	1.000	71.921	116.828	1.730
S1	-0.004	0.597	0.000	71.921	119.414	0.757
S2	-0.004	0.610	0.000	71.921	118.308	0.722
SUM	-0.006	0.591	0.000	71.921	119.640	0.704
S1	-0.006	0.596	0.000	71.921	119.308	0.635
S2	-0.006	0.602	0.000	71.921	119.703	0.725
S3	-0.006	0.603	0.000	71.921	120.691	0.706
S4	-0.006	0.595	0.000	71.921		
S5	-0.005	0.597	0.000	71.921		
S6	-0.006	0.595	0.000	71.921		
S7	-0.006	0.595	0.000	71.921		
S8	-0.006	0.590	0.000	71.921		

Internal Reference Calibration, performed Tue Feb 16 14:40:21 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.004	0.597	1.000	0.000

Air Zero Calibration, performed Wed Feb 17 08:55:28 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.001	0.000	0.000	0.000		
5'	-0.002	0.000	0.000	0.000		-0.005
SUM	-0.001	0.000	0.000	0.000		-0.005
S1	-0.001	0.000	0.000	0.000		-0.005
S2	-0.001	0.000	0.000	0.000		-0.004
S3	-0.001	0.000	0.000	0.000		-0.004
S4	-0.001	0.000	0.000	0.000		-0.004
S5	-0.002	0.000	0.000	0.000		-0.004
S6	-0.002	0.000	0.000	0.000		-0.004
S7	-0.002	0.000	0.000	0.000		-0.004
S8	-0.001	0.000	0.000	0.000		-0.005

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-TITAN Titan 1 1/16 Inch Cable Head	1.03	1.44	3.60
			SBAR-169x5 Sinker Bar 1 1/16 by 5 foot	5.00	1.69	60.00
			SBAR-169x5 Sinker Bar 1 1/16 by 5 foot	5.00	1.69	60.00
			SBAR-1.69 1 1/16 Titan Tungsten Bar	7.00	1.69	84.00
			SBAR-169x7 1 1/16 X 7 Steel weight	7.00	1.69	49.00
HEADVOLT	18.18		CENTP-TS275	2.83	2.75	25.00
			RT-PT S170 (170) PROBE 1 1/16" RADI BOND TOOL	8.92	1.70	
			CENTP-TS275	2.83	2.75	25.00
WWFS8	13.60		GR-PTS169 (169) PROBE 1 1/16" GAMMA RAY CCL	5.17	1.69	20.00
WWFS7	13.60					
WWFS6	13.60					
WWFS5	13.60					
WWFS4	13.60					
WWFS3	13.60					
WWFS2	13.60					
WWFS1	13.60					
WVFCAL	13.60					
WVF3FT	13.60					
WVF5FT	12.52					
HEADVOLT	9.27					
CCL	5.35					
GR	1.83					
TTD_Temp	0.08		Probe_Temp-1.69 (Slim_CBL)	1.27	1.38	3.00

Dataset: socialgas_ss25_2-17-16_cbl_perf.db: field/well/run/1/pass4	Total length: 46.05 ft	Total weight: 329.60 lb	O.D.: 2.75 in
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### Western Wireline

Company: Southern California Gas Company	Well: Standard Season #25	Field: Aliso Canyon	County: Los Angeles	State: California	Country: U.S.A.
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