



California  
**Department of  
Conservation**  
Oil, Gas, & Geothermal Resources

# WellSTAR

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## OPERATOR WORKSHOP

June 2019





California  
**Department of  
Conservation**  
Oil, Gas, & Geothermal Resources



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## WELLSTAR UPDATES



# WellSTAR Updates - WellSTAR Objectives

## 1. Why WellSTAR?

- DOGGR Renewal Plan (October 2015)
  - Builds a modern, efficient, collaborative and science-driven regulatory agency
  - Standard practice for record-keeping
  - Publicly-accessible online database and modern data collection and retrieval.
    - Make more data available to operators and the public
    - Ease data analysis
  - Meet aggressive deadlines for data collection to meet new regulations, public input and well evaluations

2. In order to meet the Renewal Plan's goals, the Division needs to collect more information about wells and field activities in order to ensure public safety and environmental health





# WellSTAR Updates

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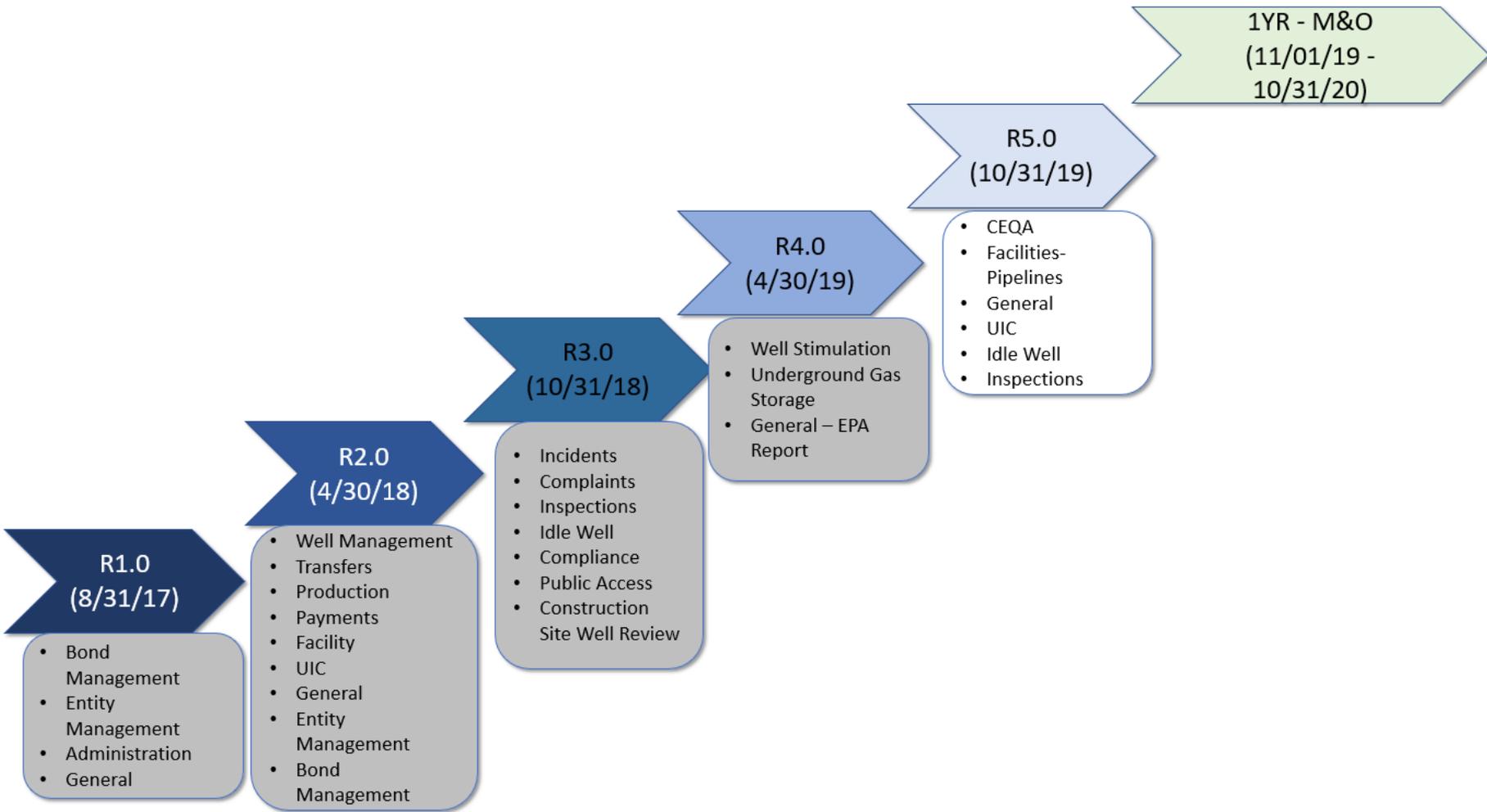
1. Release 4.0 is now in Production
  - Well Stimulation (Permit, Disclosure, and Analytical Data)
  - Underground Gas Storage
  - New Document Upload Form
  - Updates to existing forms (NOI, Well Summary, Plan Submission, and UIC)
2. Release 5.0 is scheduled for October 28<sup>th</sup>
  - Well Maintenance
  - Idle Well
  - Inspections
  - Facility - Pipeline
  - UIC Step Rate
  - Advanced Search & Document Search
  - Updates to existing forms (NOI, Well Summary, Well Stimulation Permit, and UIC)
3. DOGGR Program workshops coming Fall 2019





# WellSTAR Updates

2016	2017	2018	2019	2020
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# WellSTAR Update - Questions

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GENERAL

# General – Web-based Application



The screenshot shows the WellSTAR web application interface. At the top, there is a navigation bar with 'WellSTAR' logo, a search bar, and tabs for 'Home', 'Explore Data', 'Forms', 'Tools', and 'Maps'. Below the navigation bar, the user is logged in as 'Hello Jessica Ryan, Aera Energy LLC'. The main content area is titled 'Entities' and has two tabs: 'Organizations' and 'People'. A red box labeled '1' highlights the 'Organizations' tab. A table of entities is displayed below, with columns for 'Name', 'Primary Phone', 'WellSTAR User', and 'Role(s)'. A red box labeled '2' highlights the first column of the table. A red box labeled '3' highlights the 'Advanced Filtering' and 'Actions' dropdown menu, which includes options for 'Export - Excel' and 'Export - PDF'. The table contains 10 rows of data, including names like Andy Swint, Dave Homestead, Jeffrey Young, Jessica Ryan, Jim Conners, and Karissa Tuttle. At the bottom of the table, there is a pagination control showing '20 items per page' and 'Viewing 1 - 20 from 23 results'.

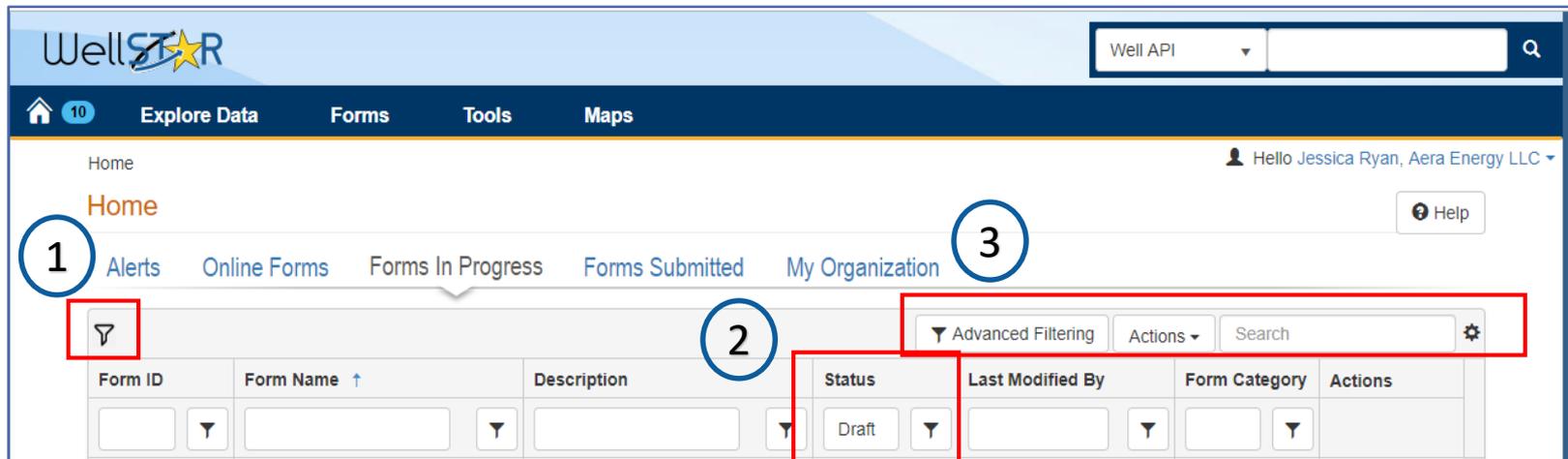
Name ↑	Primary Phone	WellSTAR User	Role(s)
Andy Swint		Y	Drilling Contact
Andy Swint		Y	Drilling Contact
Andy Swint		Y	Drilling Contact
Dave Homestead		Y	Data Entry, Engineer, Plugging...
Jeffrey Young	(661) 665-5693	Y	Agent, Contact
Jeffrey Young	(661) 665-5693	Y	Agent, Contact
Jeffrey Young	(661) 665-5693	Y	Agent, Contact
Jessica Ryan	(661) 665-5112	Y	Data Entry, Drilling Contact
Jim Conners		Y	Drilling Contact
Karissa Tuttle		Y	Data Entry, Plugging Contact
Karissa Tuttle		Y	Data Entry, Plugging Contact
Karissa Tuttle		Y	Data Entry, Plugging Contact



1. Filter columns
2. Hyperlinks
3. Export to Excel or PDF



# General – Searching WellSTAR



The screenshot shows the WellSTAR web application interface. At the top, there is a search bar with a dropdown menu set to "Well API". Below the search bar is a navigation menu with options: Home (10), Explore Data, Forms, Tools, and Maps. The main content area displays the user's name "Hello Jessica Ryan, Aera Energy LLC" and a "Home" button. A navigation bar contains "Alerts", "Online Forms", "Forms In Progress", "Forms Submitted", and "My Organization". A table of forms is displayed below, with columns for Form ID, Form Name, Description, Status, Last Modified By, Form Category, and Actions. A red box highlights the "Advanced Filtering" section, which includes a search input and a settings icon. A red box also highlights the "Status" column in the table, which shows a "Draft" status. A red box highlights the filter icon in the table header. A red box highlights the "Advanced Filtering" section. A red box highlights the "Status" column in the table.

Form ID	Form Name ↑	Description	Status	Last Modified By	Form Category	Actions
			Draft			



1. Default filter icon indicates that a default filter is set
2. Filtered data element
3. Advanced filtering enables searching by any of the data elements available on the screen

# General – Document Upload Form



Home Help

Alerts Online Forms Forms In Progress Forms Submitted My Organization

Advanced Filtering document

Form Name	Form Category	Purpose	Version	Count
<a href="#">Document Upload</a>	DocumentUpload	Allows users to upload new documents or choose existing WellSTAR documents to associate to Wells, Facilities, and/or Projects.	1	5

Form Navigation

1. Form Information
2. Operator Information
3. Document Upload
4. Document Association
5. Form Submit
6. Confirmation
7. Review Comments
8. Review

1. Document upload form hyperlink. Click to open a new form
2. Section 3. Document upload
3. Section 4. Document Association





# General – Document Upload Form

Document Upload [Hide Form Navigation]

1 Select documents to be uploaded, if applicable. Click Add New and complete all required fields to upload a document.

**Category \***  
UIC Project

2

Advanced Filtering Actions Search

Upload...	Upload...	Type	Descri...	Filen	Add New	am...	Actions
					Export - Excel		
					Export - PDF		



## Section 3. Document Upload

1. Select a category
2. Click on actions and Add New



# General – Document Upload Form

1

Document Upload

Upload New Document

Associate Existing WellSTAR Document

Confidentiality Requested

Category  
UIC Project

Type \*

Relevant Date \*

Description \*

All comments are discoverable records, open to public review.

Filename \*

Browse

Cancel Upload

2

Document Upload

Upload New Document

Associate Existing WellSTAR Document

Document ID \*

11403 - Well Cancellation Correspondence Notice

11274 - CEQA Document

11273 - Other

11272 - NOI Acceptance Correspondence

11271 - Notice of Intention Form Snapshot

Cancel Upload



## Section 3. Document Upload

1. Upload New Document
2. Associate Existing WellSTAR Document

# General – Document Upload Form



Document Association [Hide Form Navigation]

Please use grids and arrow buttons to select one or more Facilities, Wells and/or Projects to associate the document.

Associated Wells and Facilities

1 Select Wells

API ↑	Well Desi...	Operator ...	Current T...	Current S...	Field	
<input type="checkbox"/>	0401900038	738	Aera Energy LLC	Oil & Gas	Plugged & Abandoned	Coalinga
<input type="checkbox"/>	0401900040	256A	Aera Energy LLC	Oil & Gas	Plugged & Abandoned	Coalinga
<input type="checkbox"/>	0401900046	142X	Aera Energy LLC	Injection	Plugged & Abandoned	Coalinga
<input type="checkbox"/>	0401900052	285A	Aera Energy LLC	Oil & Gas	Plugged & Abandoned	Coalinga
<input type="checkbox"/>	0401900060	182	Aera Energy LLC	Oil & Gas	Plugged & Abandoned	Coalinga
<input type="checkbox"/>	0401900061	136X	Aera Energy LLC	Oil & Gas	Idle	Coalinga
<input type="checkbox"/>	0401900066	WM&M 1	Aera Energy LLC	Oil & Gas	Plugged & Abandoned	Coalinga

2

↓ ↑

Associated Wells

Advanced Filtering Actions Search

API ↑	Well Desi...	Operator ...	Current T...	Current S...	Field
-------	--------------	--------------	--------------	--------------	-------

3

Associated Items

0 10 items per page No results to display

## Section 4. Document Association

1. Select records to associate. Documents can be associated to Wells, Facilities or Projects
2. Click arrows to move the items to associate or unassociated



# General – Software User Manual



## - Main Section

### General Links

WellSTAR Main Console

Home Page

Global Search Results Page

+ Bonds

+ Complaints

+ Compliance

+ Construction Site Well Reviews

+ Entities

+ Facilities

### - General

Bulk Data Downloads

Lease Detail

[Document Upload Form](#)

Lease Information Form

+ Idle Wells

+ Incidents

+ Inspections

+ Production

+ Tests

+ Transactions

+ Transfers

+ UGS Projects

+ UIC Projects

+ Wells

+ Well Stimulation

+ Release Notes

Home

Alerts Online Forms Forms In Progress Forms Submitted My Organization

Advanced Filtering document

Form Name ↑	Form Category	Purpose	Version	Count
<a href="#">Document Upload</a>	DocumentUpload	Allows users to upload new documents or choose existing WellSTAR documents to associate to Wells, Facilities, and/or Projects.	1	5

## Software User Manual (SUM)



1. WellSTAR provides  contextual help on every screen.
2. Future enhancements coming



# General - Forms

Home Help

Alerts Online Forms **Forms In Progress** Forms Submitted My Organization

Advanced Filtering document

Form Name ↑	Form Category	Purpose	Version	Count
<a href="#">Document Upload</a>	DocumentUpload	Allows users to upload new documents or choose existing WellSTAR documents to associate to Wells, Facilities, and/or Projects.	1	5

1. Form Statuses
2. WellSTAR Release impacts on Forms

# General – Forms in Progress

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**Draft** The form is in Draft and has not yet been submitted.

**Deleted** The form instance has been Deleted. This can be performed by Operators on their Draft forms only.

**Returned** The form has been returned by DOGGR back to the submitter. The submitter can make edits as if the form was in draft and re-submit when necessary

# General – Forms Submitted

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**In Progress** The form has been submitted and at least one review task is Complete.

**Submitted** The form has been submitted for review. At this point the form is read-only to the Operator

**Withdrawn** The form has been set to Withdrawn by DOGGR. Only DOGGR can take this action. Effectively, this is the only way to delete a form once it has been submitted. Typically forms are only Withdrawn at the Operator's request.

**On Hold** The form has been put On Hold by DOGGR. Not all forms can be put On Hold. This is used in the Abeyance process for the NOI, for example.

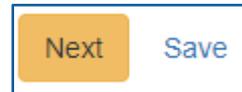
**Approved** The form submission has been Approved by DOGGR. This is the final status for online forms that are of type "Approved" in WellSTAR.

**Accepted** The form submission has been Accepted by DOGGR. This is the final status for online forms that are of type "Accepted" in WellSTAR.

**Denied** The form submission has been Denied by DOGGR. Once this happens, the form can no longer be edited

# General – WellSTAR Timeout

1. WellSTAR timeout is set for 50 minutes. It is recommended to save frequently.
2. Your progress can be saved by hitting the save or next buttons



# General – WellSTAR Support

## 1. Technical Issues

- When in doubt, submit a ticket to the DOGGR Service Desk by email [servicedeskmail@conservation.ca.gov](mailto:servicedeskmail@conservation.ca.gov)
- Please include as much information as possible using the [Service Desk Email Template](#)
  - Description of issue
  - Screen shots
  - Form ID number
  - Expected result
  - Actual result



Here to help



## 2. Enhancement Ideas

- Enhancement ideas are welcome! Email to the WellSTAR general mailbox [WellSTAR@conservation.ca.gov](mailto:WellSTAR@conservation.ca.gov)

## 3. WellSTAR Project page for Operators

- Training materials, Communications, Presentations

# General - Questions

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ELECTRONIC DATA DELIVERY (EDD)

# Electronic Data Delivery (EDD)

1. EDD formats include Excel & XML
  - XML is used for NOI & Well Summary given the hierarchy of the data
2. Templates
  - Excel templates must be downloaded from WellSTAR
  - XML templates are posted on the WellSTAR project page include URL
3. Limitations with EDDs
  - 7000 row limit for all EDDs submitted with exception of SB1281
  - SB1281 (OG110) has a row limit of 1000
  - Enhancements are in planned to increase the row limits



YOUR  
QUESTIONS  
ANSWERED!

# Electronic Data Delivery (EDD)

4. Pre-populated data in downloaded EDDs
  - If the prepopulated well information in a downloaded EDD is not correct, submit a Well Summary to correct the data.
  - If unable to correct the well information via Well Summary contact service desk
5. Business to Government (B2G)
  - Initial setup by emailing the WellSTAR inbox at [WellSTAR@conservation.ca.gov](mailto:WellSTAR@conservation.ca.gov) and include IT Technical Contact Information (email and phone number)



YOUR  
QUESTIONS  
ANSWERED!

# EDD - Questions

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PRODUCTION REPORTING



# Production Reporting

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1. Validation of well pressures
2. Individual well corrections
3. Code types
4. Grayed out fields and how to “fix”
5. Data Management fix updates

YOUR  
QUESTIONS  
ANSWERED!

# Production Reporting

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1. View and printout individual well production



# Production Reporting - Questions

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# WellSTAR

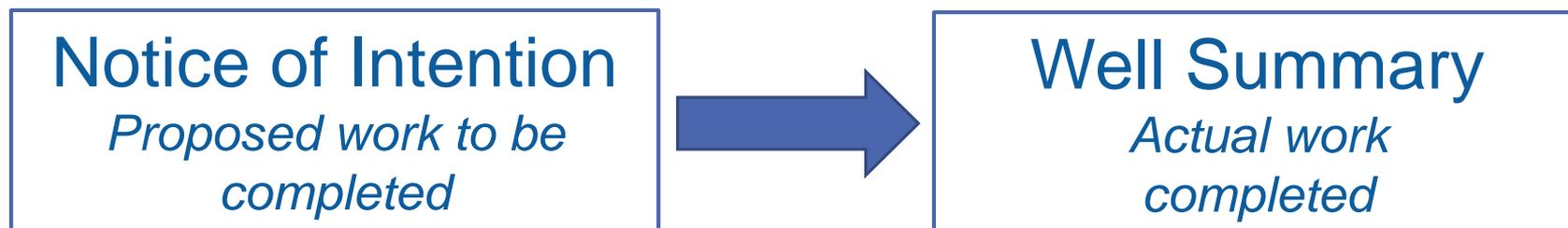
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## NOTICE OF INTENTION (NOI)



# Notice of Intention (NOI)

A Notice of Intention (NOI) is used to inform DOGGR of work you are planning to complete. The information provided is the proposed work while the Well Summary will be used to inform DOGGR of the work as it was completed.





# Notice of Intention (NOI)

Zones of Significance ⓘ

Actions ⌵ ⚙

Zone Category ↑	Zone Name	Pressure (PSI)	Oil/ Gas Show	Actions
Fresh Water	Pico			Actions ⌵
Hydrocarbon Zones	Repetto-Tar	1050		Actions ⌵
Hydrocarbon Zones	Repetto-Ranger	1100		Actions ⌵
Hydrocarbon Zones	Puente-Upper Terminal	1250		Actions ⌵
USDW	Pico			Actions ⌵

## Well Information

- Bond
- Ownership
- Well Depths
- Elevation
- Zones of Significance
- Blowout Prevention Equipment
- Drilling Fluids



# Notice of Intention (NOI)

Bottom Hole Location Information

<b>Section: *</b>	<b>Township: *</b>	<b>Range: *</b>
01 ▼	31 ▼ S ▼	24 ▼ E ▼
<b>B&amp;M: *</b>	<b>Field:</b>	
MD ▼	Elk Hills	
<b>Latitude (NAD 83): *</b>	<b>Longitude (NAD 83): *</b>	<b>County: *</b>
35.26365093	-119.35528204	Kern ▼
<b>Corner Call: *</b>		
1541'S & 1059'E of NW corner of Section 1G		

## Location Information

- Location Classification
- Surface Location
- Elevation Data
- Bottom Hole Location



# Notice of Intention (NOI)

Wellbore Construction Feature						
<input type="button" value="Advanced Filtering"/> <input type="button" value="Actions"/> <input type="button" value="Settings"/>						
Feature ↑	Unique ID	Top	Bottom	Install Date	Status	Actions
Conductor	F1	20	100	02/15/2013	New	<a href="#">Actions</a> ▼
Cement Segment						
<input type="button" value="Advanced Filtering"/> <input type="button" value="Actions"/> <input type="button" value="Settings"/>						
Associated Feature ↑	Unique ID	Top	Bottom	Install Date	Status	Actions
F1	C2	20	100	N/A	New	<a href="#">Actions</a> ▼
Cement Class						
<input type="button" value="Actions"/> <input type="button" value="Settings"/>						
Associated Cement Segment ↑	Cement Type	Weight (lbs/gal)	Lead/Tail	Status	Actions	
C2	Class G Cement			New	<a href="#">Actions</a> ▼	

## Feature & Cement

- Wellbore Construction Feature which includes borehole, conductor, intermediate casing, liner, plugs, etc.
- Cement segment which defines cement placement and depths and Cement class which includes cement properties



# Notice of Intention (NOI)

Completion Interval						
Unique ID ↑	Type	Interval Status	Top	Bottom	Status	Actions
C1	Oil & Gas	Active	3303	5298	New	Actions▼

Completion Perforations						
Associated Completion Interval ↑	Type	Perforation Status	Top	Bottom	Status	Actions
C1	Slotted Liner	Open	4206	5296	New	Actions▼

## Completion & Perforation

- Completion intervals names the zones that will be completed and includes the top and bottom of each zone
- Completion intervals defines the sections that will be perforated and describes the perforations



# Notice of Intention (NOI)

Uploaded Documents

Advanced Filtering Actions Search

Uploa...	Uploa...	Type	Descri...	Filena...	Docu...	Docu...	Actions
05/30/2019	Hilda Kemberling	CEQA Document	CEQA Operator Checklist	CEQA Operator Checklist.pdf		pdf	Actions
05/30/2019	Hilda Kemberling	CEQA Document	Indemnity Agreement	Indemnity Agreement.pdf		pdf	Actions
05/30/2019	Hilda Kemberling	Wellbore Diagram	CURRENT WBD	CURRENT WBD.pdf		pdf	Actions
05/30/2019	Hilda Kemberling	Wellbore Diagram	PROPOSED WBD	PROPOSED WBD.pdf		pdf	Actions
05/30/2019	Hilda Kemberling	Well Log	DIRECTIONAL	DIRECTIONAL		pdf	Actions

## Document Upload

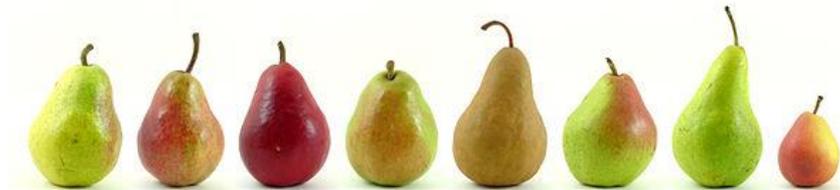
Upload any relevant documents but generally requires:

- Directional survey,
- a program and all
- CEQA documents.



# Notice of Intention (NOI)

Notice Type	Notify DOGGR of your Intention to:
<b>Abandon</b>	abandon a well
<b>Deepen</b>	deepen a well that has an API number assigned to it. This includes conductors and will assign a new wellbore extension ex. 012-34567-00 becomes 012-34567-01
<b>New Drill</b>	drill a new well
<b>Re-Abandon</b>	abandon a previously abandoned well to current statutes and regulations
<b>Rework</b>	make any permanent alteration to casing in the well or to change the well type
<b>Side-Track</b>	drill a new well bore out of an existing one





# Notice of Intention (NOI)

## Approval:

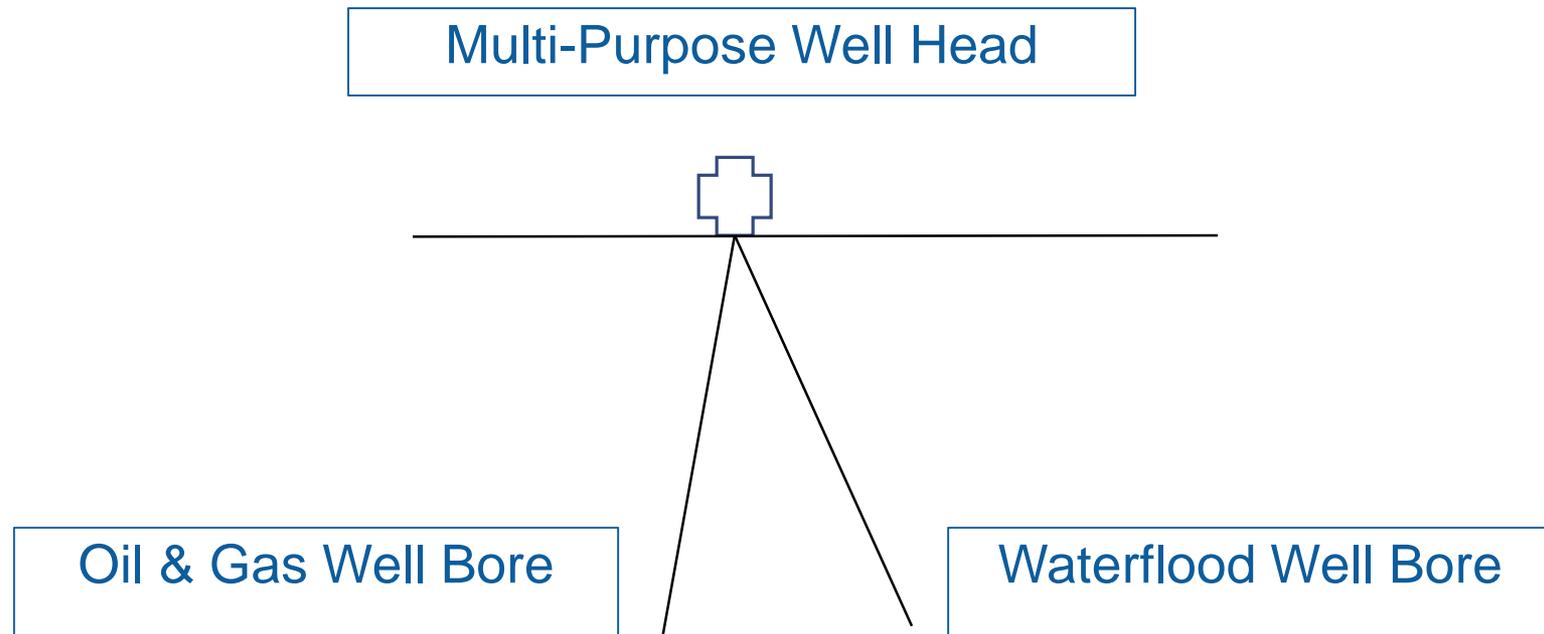
- There are three tasks DOGGR must complete for a form to be approved:
  1. Completeness Check- a general review to check for completeness of the data that has been submitted.
  2. Notice of Intention Review- Completed by Associate Oil and Gas Engineers (AOGE), this review will include data review for correctness, selecting the conditions of approval that will appear on your permit, reviewing the confidentiality request (if requested) and finalizing the correspondence/permit information.
  3. Final Determination- Generally completed by Senior Oil and Gas Engineers (SOGE), this will be a review of the work completed by the AOGE and is the final review before the form is approved and the permit is issued by WellSTAR.

**APPROVED**

# Notice of Intention (NOI)

## Well Type: Multi-Purpose

- Multi-Purpose wells exist in WellSTAR when a well has more than one wellbore and two or more of those wellbores were different well types. The logic is that the well head has two well types/well bores associated with it so it is multi purpose. This will be corrected in Release 5, scheduled for October 28, 2019.

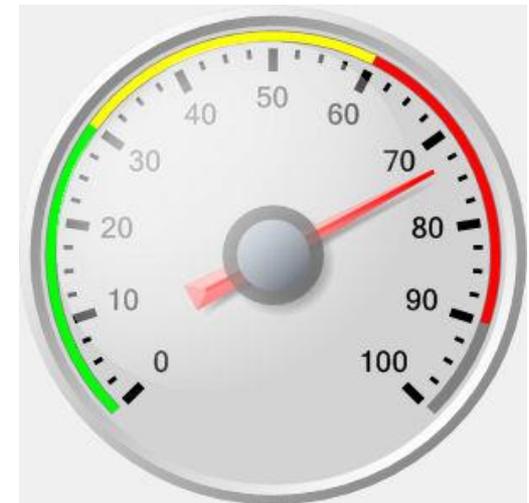


# Notice of Intention (NOI)

Tips to help increase efficiency:

- In Section 5. Well Information 2, include all zones of significance and individual zone pressures. For a new drill, include all zones you will encounter so DOGGR can determine BOPE and anchor string requirements. For abandonments, include all zones open to the well and USDW and/or BFW information.

Zones of Significance ⓘ				
				Actions ▾ ⚙
Zone Category ↑	Zone Name	Pressure (PSI)	Oil/Gas Show	Actions
Fresh Water	Pico			Actions ▾
Hydrocarbon Zones	Repetto-Tar	1050		Actions ▾
Hydrocarbon Zones	Repetto-Ranger	1100		Actions ▾
Hydrocarbon Zones	Puente-Upper Terminal	1250		Actions ▾
USDW	Pico			Actions ▾





# Notice of Intention (NOI)

Tips to help increase efficiency:

- The documents required to approve an NOI generally include a directional survey, program describing proposed work in detail, and CEQA documents. All NOI submission must include CEQA documentation, this includes the operator checklist, a project description and an indemnity agreement. If you have these documents, also include your local permit, environmental impact report, negative declaration or mitigated negative declaration

CEQA Required Documents
Operator Checklist
Project Description
Indemnity Agreement



# Notice of Intention (NOI)

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Tips continued:

- Features & cement can sometimes contain information from other wellbore extensions listed as active. You can correct this information by including all features of the well in question. You may include all borehole segments, conductor, surface casing, intermediate casing, liner, packer or plug.
  - If there are more features than your well contains, contact your local district and they will help correct the information. The form can still be submitted and approved with the error.
- For more detailed instructions please visit [https://www.conservation.ca.gov/dog/for\\_operators/Pages/WellSTAR.aspx](https://www.conservation.ca.gov/dog/for_operators/Pages/WellSTAR.aspx)
  - This link contains previously recorded presentations and detailed training documents including computer based training presentations

# NOI - Questions

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WELL SUMMARY

# Well Summary

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## 1. Well Summary Form Walk thru

- Required Data Elements
- Well History
- Tips and Tricks



YOUR  
QUESTIONS  
ANSWERED!



# Well Summary

## Section 1:

Suggestions for Form Description include the following:

- Permit type (New drill, rework, sidetrack, or P&A)
- API (ex. 0402919529)
- Name and number of well
- Field Name

## Examples:

**Description** ⓘ

ID/ NOI-New Drill/ Poso Creek/ Govt 3-3IR  
*All comments are discoverable records, open to public review.*

**Description** ⓘ

Rework - 3135-I, Sec. 8 Cymric 030-35860  
*All comments are discoverable records, open to public review.*

# Well Summary



## Section 5. Well Information:

**Well Information**

Please enter relevant dates and information on the completed Well Operation \* Indicates required field

**Date Commenced \*** 04/05/2018 **Date Completed \*** 04/08/2018 **Rig Release Date \*** 04/08/2018 **Spud Date \*** 04/05/2018

**Depth measurements are referenced to \*** Kelly Bushing 14 feet above ground

**Elevation of ground above Mean Sea Level**  
**Current \*** 730 **Proposed**

**Wellbore Depths**

Depth Type	Proposed (ft)	Actual (ft)
Bottom Hole (MD)		2485
Bottom Hole (TVD)		2461
Plugback Depth (MD)		
Plugback Depth (TVD)		

Whole numbers only

Whole numbers only

# Well Summary

## Section 5. Well Information:

### Dates:

Work Type	Date Commenced	Date Completed	Rig Release (RR)	Spud
<b>New Drills</b>	Date perforated/liner landed OB: RDMO	Date perforated/liner landed OB: RDMO	Drilling Rig Release Date	Original Spud
<b>Reworks</b>	Date rework began	Rig Release of Rework	Original RR	Original Spud
<b>Abandonment</b>	Date Abandonment Began	Surface plug witness	Original RR	Original Spud

**RR** = Rig Release **OB** = Observation Well **RDMO** = Rig Down Move Out

# Well Summary



## Section 5. Well Information

**Please select the direction of this wellbore: \***

Directional

If Horizontal or Directional, please upload the proposed Directional Program data in the template provided on Step 12, Directional Survey Submission.

---

**Wellbore Depths**

Depth Type	Proposed (ft)	Actual (ft)
Bottom Hole (MD)	<input type="text"/>	
Bottom Hole (TVD)	<input type="text"/>	
Plugback Depth (MD)	N/A	
Plugback Depth (TVD)	N/A	

---

**Check all that apply to this notice:**

This well will be drilled with underbalanced fluids program \*

Fresh Water is present \*   If yes, please enter Zone Information in the table below.

USDW present \*   If yes, please enter Zone Information in the table below.

---

**Zones of Significance ⓘ**

Zone Category ↑	Zone Name	Pressure (PSI)	Oil/ Gas Show	Actions
Fresh Water			No	Actions <input type="button" value="v"/>
Hydrocarbon Zones	Kern River			Actions <input type="button" value="v"/>

# Well Summary



## Section 6. Location Information:

Online Forms | Well Summary Hello Grant Obenshain, Department of Conservation

### Well Summary - E & B Natural Res. Mg

Form ID: 12220 Help

Form Navigation

- 1. Form Information
- 2. EDD Submission
- 3. Operator Information ✓
- 4. Permit Information ✓
- 5. Well Information ✓
- 6. Location Information**
- 7. Feature & Cement
- 8. Completion & Perforation
- 9. Document Upload
- 10. Directional Survey Submission
- 11. Directional Survey
- 12. Form Submit
- 13. Confirmation
- 14. Summary Review
- 15. Correspondence
- 16. Review Comments
- 17. Review

#### Location Information

Please confirm and/or update location information on the completed well. \* Indicates required field

**Surface Location Section**

<b>Section *</b> 33	<b>Township *</b> 27 S	<b>Range *</b> 27 E
<b>B&amp;M *</b> MD	<b>Field</b> Poso Creek	
<b>Latitude *</b> 35.53869629	<b>Longitude *</b> -119.07192993	<b>County</b> Kern

**Corner Call \***  
2949.4'E & 3190.6'N from the SW Corner of Section 33

**Source**  
Operator Submitted

**Date Collected**

**Location Description**

All comments are discoverable records, open to public review.

Up to 8 decimal places

50

# Well Summary



## Section 6. Location Information:

Bottom Hole Location Section

<b>Section *</b> 07 ▼	<b>Township *</b> 30 ▼ S ▼	<b>Range *</b> 22 ▼ E ▼
<b>B&amp;M *</b> MD ▼	<b>Field</b> McKittrick	
<b>Latitude *</b> 35.32724938	<b>Longitude *</b> -119.65457535	<b>County</b> Kern
<b>Corner Call *</b> From Surface location: Northing (usft): 119.46 Easting (usft): -5.40		

All comments are discoverable records, open to public review.

Up to 8 decimal places

From Surface location

# Well Summary



## Section 8. Feature & Cement:

Wellbore Construction Feature						
Advanced Filtering Actions ⚙						
Feature ↑	Unique ID	Top	Bottom	Install Date	Status	Actions
Borehole	F1	12	132	05/21/2018	New	Actions▾
Borehole	F2	132	1029	05/25/2018	New	Actions▾
Borehole	F3	1029	1745	05/26/2018	New	Actions▾
Conductor	F4	12	132	05/22/2018	New	Actions▾
Liner	F7	907	1745	05/26/2018	New	Actions▾
Production Casing	F6	12	955	05/25/2018	New	Actions▾

# Well Summary



## Section 8. Features & Cement:

Construction Feature ✕

\* Indicates Required Field

**Feature \***

**Feature Top MD (ft) \***  **Feature Bottom MD (ft) \***

**Outside Diameter (decimal inches)**  **Inside Diameter (decimal inches)**

**Weight (lbs)**  **Grade/Type**  **Burst Pressure**

**New Pipe**  **Pulled**

**Install Date**  **Remove Date**

**Connection Type**

**Description**

*All comments are discoverable records, open to public review.*

# Well Summary



## Section 8. Features & Cement:

Construction Feature ✕

\* Indicates Required Field

**Feature \***

**Feature Top MD (ft) \***  **Feature Bottom MD (ft) \***

**Outside Diameter (decimal inches)**  **Inside Diameter (decimal inches)**

**Weight (lbs)**  **Grade/Type**  **Burst Pressure**

**New Pipe**  **Pulled**

**Install Date**  **Remove Date**

**Connection Type**

**Description**

*All comments are discoverable records, open to public review.*

# Well Summary



## Section 8. Features & Cement:

Construction Feature ✕

\* Indicates Required Field

**Feature \***

**Feature Top MD (ft) \***  **Feature Bottom MD (ft) \***

**Outside Diameter (decimal inches)**  **Inside Diameter (decimal inches)**

**Weight (lbs)**  **Grade/Type**  **Burst Pressure**

**New Pipe**  **Pulled**

**Install Date**  **Remove Date**

**Connection Type**

**Description**

*All comments are discoverable records, open to public review.*

# Well Summary



## Section 8. Features & Cement:

Cement Segment ×

\* Indicates required field

Associated Feature\*

Inside/Outside Casing?\*

Top\*  Bottom\*

Volume (cubic ft)

Volume (Sacks)  Yield (cu ft per sack)

Verify Method  Cementing Company

Install Date  Remove Date

Cement ID  Job Type

Description

Cancel Save

Can have 1 decimal place

Put the total number of Cubic Feet here

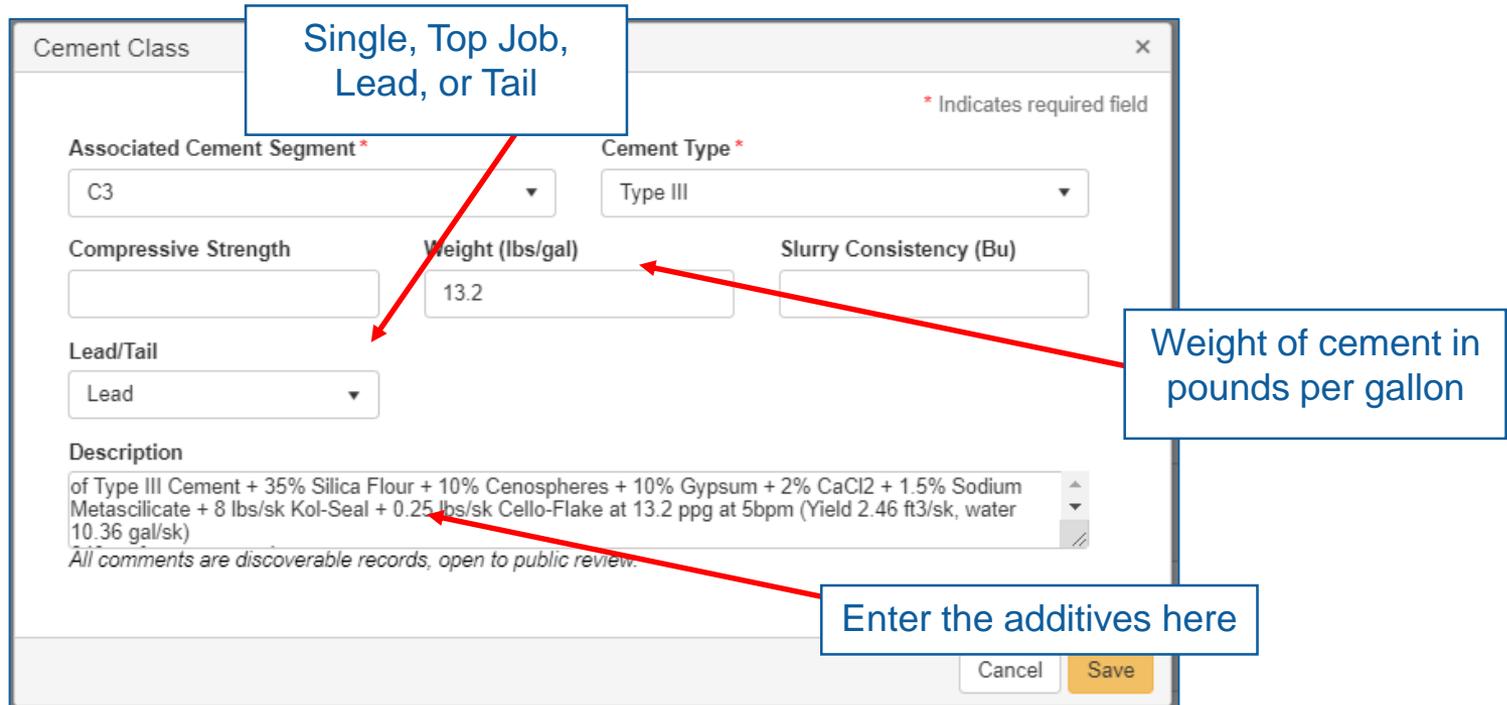
Put the conversion factor from sacks to cubic feet

Put the total number of Sacks here

How do we know where the cement is?

# Well Summary

## Section 8. Features & Cement:



The screenshot shows a 'Cement Class' form with the following fields and callouts:

- Associated Cement Segment \***: A dropdown menu with 'C3' selected. A callout box points to this field with the text 'Single, Top Job, Lead, or Tail'.
- Cement Type \***: A dropdown menu with 'Type III' selected.
- Compressive Strength**: An empty text input field.
- Weight (lbs/gal)**: A text input field containing '13.2'. A callout box points to this field with the text 'Weight of cement in pounds per gallon'.
- Slurry Consistency (Bu)**: An empty text input field.
- Lead/Tail**: A dropdown menu with 'Lead' selected.
- Description**: A text area containing the text: 'of Type III Cement + 35% Silica Flour + 10% Cenospheres + 10% Gypsum + 2% CaCl2 + 1.5% Sodium Metascilicate + 8 lbs/sk Kol-Seal + 0.25 lbs/sk Cello-Flake at 13.2 ppg at 5bpm (Yield 2.46 ft3/sk, water 10.36 gal/sk)'. A callout box points to this area with the text 'Enter the additives here'.

At the bottom right of the form are 'Cancel' and 'Save' buttons. A note at the top right of the form states '\* Indicates required field'.

**Description Box:** Here you should put the comments that have no tab (i.e. additives). Additives should be added into this box along with their respective percent weight. There is a 255 character limit in this box.

# Well Summary

## Section 9. Completion & Perforation:

**Completion & Perforation**

Please enter information on the Completion Intervals and Completion perforations below. \* Indicates required field

Completion Interval

Unique ID ↑	Type	Interval Status	Top	Bottom	Status	Actions
C1	Unknown	Unknown			Current	<a href="#">Actions</a>
C1	Oil & Gas	Active	805	1628	Proposed	<a href="#">Actions</a>

This bottom is the TD of the well because we do not know the actual bottom of the zone (there is no listing of a zone below it on the permit or history).

# Well Summary

## Section 9. Completion & Perforation:

Add Completion Interval ✕

\* Indicates required field

<b>Type *</b>	<b>Interval Status *</b>
Oil & Gas ▼	Active ▼
<b>Top *</b>	<b>Bottom *</b>
805	1628
<b>Field *</b>	
Midway-Sunset ▼	
<b>Area *</b>	
Any Area ▼	
<b>Pool Code *</b>	
Monarch ▼	
<b>Formation *</b>	
Monterey-Miocene Tar ▼	

Cancel Save

These must be in whole numbers. Depths are in Measured Depths (MD).

# Well Summary

## Section 9. Completion & Perforation:

Completion Perforation

Associated Completion Interval \*  
C1

Type \*  
Slotted Liner

Perforation Status \*  
Open

Top MD (ft) \*  
976

Bottom MD (ft) \*  
1056

Diameter (inches)  
[ ]

Spacing (degree phasing)  
[ ]

Number of Shots (shots per foot)  
[ ]

Perforated Date  
6/6/2018

Cancel Save

These can have 2 decimal places. Depths are in Measured Depths (MD).

In inches, up to 2 decimals

Decimal inches, up to 3 decimals

# Well Summary



## Section 10. Document Upload:

Document Upload
[Hide Form Navigation]

<b>API Number</b> 0403063120	<b>Well Designation</b> 321-J-10H	<b>Field</b> Any Field
<b>Well Type</b> Oil & Gas	<b>Notice Type</b> NOI	

Select documents to be uploaded, if applicable. Click Add New and complete all required fields to upload a document.

**Uploaded Documents**

Advanced Filtering
Actions ▾

⚙

Upload...	Upload...	Type	Descri...	Filename	Docum...	Docum...	Actions
07/02/2018	Kayla Kendig	Well History	Drill History	0403063120_Drill History_321-J-10H_06-26-2018.pdf			Actions ▾

# Well Summary

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General notes:

If a summary is returned, you can find the reason why in the comments field in Section 13. Form Submit: Form Submit page.

# Well Summary - Questions

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California  
**Department of  
Conservation**  
Oil, Gas, & Geothermal Resources

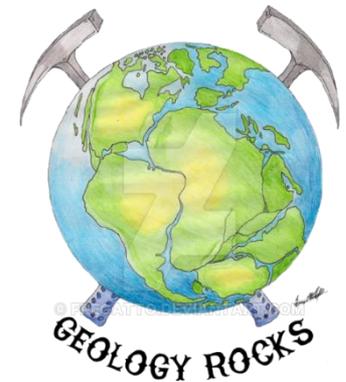
Well**STAR**

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DIRECTIONAL SURVEY

# Directional Survey Data

- EDD Enhancements coming in Release 5
  1. New grid in NOI/Well Summary to display Directional Survey EDD data
    - Grid will display validation errors for Directional Survey Data
    - Grid will enable correcting Directional Survey Data
  2. Enhanced Validations for Direction Survey including:
    - Conditionally required
    - Cross validations to parent records
    - Reasonability Checks and Ranges
- Operators work with Service companies to provide the data in the WellSTAR template format



# Questions

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