Agenda

• WellSTAR Updates
• General
• Electronic Data Delivery (EDD)
• Production Reporting
• Notice of Intention (NOI)
• Well Summary
• Directional Survey Data
• Questions
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

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 28th
   • 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
- R1.0 (8/31/17)
  - Bond Management
  - Entity Management
  - Administration
  - General

2017
- R2.0 (4/30/18)
  - Well Management
  - Transfers
  - Production
  - Payments
  - Facility
  - UIC
  - General
  - Entity Management
  - Bond Management

2018
- R3.0 (10/31/18)
  - Incidents
  - Complaints
  - Inspections
  - Idle Well
  - Compliance
  - Public Access
  - Construction
  - Site Well Review

2019
- R4.0 (4/30/19)
  - Well Stimulation
  - Underground Gas Storage
  - General – EPA Report

- R5.0 (10/31/19)
  - CEQA
  - Facilities-Pipelines
  - General
  - UIC
  - Idle Well
  - Inspections

2020
- 1YR - M&O
  (11/01/19 - 10/31/20)
WellSTAR Update - Questions
General
**General – Web-based Application**

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

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**Useful Tips**

- Use Google Chrome

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![WellSTAR Interface](image-url)
General – Searching WellSTAR

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

1. Document upload form hyperlink. Click to open a new form

2. Section 3. Document upload

Section 3. Document Upload

1. Select a category
2. Click on actions and Add New
Section 3. Document Upload

1. Upload New Document
2. Associate Existing WellSTAR Document
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
1. WellSTAR provides contextual help on every screen.

2. Future enhancements coming
General - Forms

1. Form Statuses
2. WellSTAR Release impacts on Forms
General – Forms in Progress

**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

**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.
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.
1. **Technical Issues**
   - When in doubt, submit a ticket to the DOGGR Service Desk by email 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

2. **Enhancement Ideas**
   - Enhancement ideas are welcome! Email to the WellSTAR general mailbox WellSTAR@conservation.ca.gov

3. **WellSTAR Project page for Operators**
   - Training materials, Communications, Presentations
General - Questions
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
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 and include IT Technical Contact Information (email and phone number)
WellSTAR

PRODUCTION REPORTING
Production Reporting

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
Production Reporting

1. View and printout individual well production
Production Reporting - Questions
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

<table>
<thead>
<tr>
<th>Zone Category</th>
<th>Zone Name</th>
<th>Pressure (PSI)</th>
<th>Oil/Gas Show</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh Water</td>
<td>Pico</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocarbon Zones</td>
<td>Repetto-Tar</td>
<td>1050</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocarbon Zones</td>
<td>Repetto-Ranger</td>
<td>1100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocarbon Zones</td>
<td>Puente-Upper</td>
<td>1250</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Terminal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USDW</td>
<td>Pico</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Location Information

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

#### Bottom Hole Location Information

<table>
<thead>
<tr>
<th><strong>Section:</strong></th>
<th><strong>Township:</strong></th>
<th><strong>Range:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>31 (S)</td>
<td>24 (E)</td>
</tr>
</tbody>
</table>

**B&M:** MD

**Field:** Elk Hills

**Latitude (NAD 83):** 35.26365093

**Longitude (NAD 83):** -119.35528204

**County:** Kern

**Corner Call:** 1541’S & 1059’E of NW corner of Section 1G
**Wellbore Construction Feature**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Unique ID</th>
<th>Top</th>
<th>Bottom</th>
<th>Install Date</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>F1</td>
<td>20</td>
<td>100</td>
<td>02/15/2013</td>
<td>New</td>
<td>Actions</td>
</tr>
</tbody>
</table>

**Cement Segment**

<table>
<thead>
<tr>
<th>Associated Feature</th>
<th>Unique ID</th>
<th>Top</th>
<th>Bottom</th>
<th>Install Date</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>C2</td>
<td>20</td>
<td>100</td>
<td>N/A</td>
<td>New</td>
<td>Actions</td>
</tr>
</tbody>
</table>

**Cement Class**

<table>
<thead>
<tr>
<th>Associated Cement Segment</th>
<th>Cement Type</th>
<th>Weight (lbs/gal)</th>
<th>Lead/Tail</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2</td>
<td>Class G</td>
<td>Cement</td>
<td>New</td>
<td>Actions</td>
<td></td>
</tr>
</tbody>
</table>

- 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 & Perforation

- Completion intervals names the zones that will be completed and includes the top and bottom of each zone.

<table>
<thead>
<tr>
<th>Unique ID</th>
<th>Type</th>
<th>Interval Status</th>
<th>Top</th>
<th>Bottom</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Oil &amp; Gas</td>
<td>Active</td>
<td>3303</td>
<td>5298</td>
<td>New</td>
<td>Actions</td>
</tr>
</tbody>
</table>

- Completion intervals defines the sections that will be perforated and describes the perforations.

<table>
<thead>
<tr>
<th>Associated Completion Interval</th>
<th>Type</th>
<th>Perforation Status</th>
<th>Top</th>
<th>Bottom</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Slotted Liner</td>
<td>Open</td>
<td>4206</td>
<td>5296</td>
<td>New</td>
<td>Actions</td>
</tr>
</tbody>
</table>
### Notice of Intention (NOI)

**Document Upload**

Upload any relevant documents but generally requires:

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

<table>
<thead>
<tr>
<th>Upload Date</th>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Filename</th>
<th>Extension</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/30/2019</td>
<td>Hilda Kemberli ng</td>
<td>CEQA Document</td>
<td>Indemnity Agreement</td>
<td>Indemnity Agreement.pdf</td>
<td>pdf</td>
<td>Actions</td>
</tr>
<tr>
<td>05/30/2019</td>
<td>Hilda Kemberli ng</td>
<td>Wellbore Diagram</td>
<td>CURRENT WBD</td>
<td>CURRENT WBD.pdf</td>
<td>pdf</td>
<td>Actions</td>
</tr>
<tr>
<td>05/30/2019</td>
<td>Hilda Kemberli ng</td>
<td>Wellbore Diagram</td>
<td>PROPOSED WBD</td>
<td>PROPOSED WBD.pdf</td>
<td>pdf</td>
<td>Actions</td>
</tr>
<tr>
<td>05/30/2019</td>
<td>Hilda Kemberli ng</td>
<td>Well Log</td>
<td>DIRECTIONAL</td>
<td>DIRECTIONAL.pdf</td>
<td>pdf</td>
<td>Actions</td>
</tr>
</tbody>
</table>
# Notice of Intention (NOI)

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

<table>
<thead>
<tr>
<th>Zone Category</th>
<th>Zone Name</th>
<th>Pressure (PSI)</th>
<th>Oil/Gas Show</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh Water</td>
<td>Pico</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocarbon Zones</td>
<td>Repetto-Tar</td>
<td>1050</td>
<td></td>
<td>Actions</td>
</tr>
<tr>
<td>Hydrocarbon Zones</td>
<td>Repetto-Ranger</td>
<td>1100</td>
<td></td>
<td>Actions</td>
</tr>
<tr>
<td>Hydrocarbon Zones</td>
<td>Puente-Upper Terminal</td>
<td>1250</td>
<td></td>
<td>Actions</td>
</tr>
<tr>
<td>USDW</td>
<td>Pico</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>CEQA Required Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Checklist</td>
</tr>
<tr>
<td>Project Description</td>
</tr>
<tr>
<td>Indemnity Agreement</td>
</tr>
</tbody>
</table>
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
  • This link contains previously recorded presentations and detailed training documents including computer based training presentations
NOI - Questions
WellSTAR

WELL SUMMARY
Well Summary

1. Well Summary Form Walk thru
   - Required Data Elements
   - Well History
   - Tips and Tricks

YOUR QUESTIONS ANSWERED!
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:
Well Summary

Section 5. Well Information:

[Diagram of Well Information form]

- Whole numbers only
- Whole numbers only

[Table]

<table>
<thead>
<tr>
<th>Depth Type</th>
<th>Proposed (ft)</th>
<th>Actual (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom Hole (MD)</td>
<td>2485</td>
<td></td>
</tr>
<tr>
<td>Bottom Hole (TVD)</td>
<td>2481</td>
<td></td>
</tr>
<tr>
<td>Plugback Depth (MD)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plugback Depth (TVD)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Well Summary

Section 5. Well Information:

Dates:

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

**RR** = Rig Release  **OB** = Observation Well  **RDMO** = Rig Down Move Out
Section 5. Well Information
Section 6. Location Information:

Up to 8 decimal places
Well Summary

Section 6. Location Information:

Up to 8 decimal places

From Surface location

All comments are discoverable records, open to public review.
Section 8. Feature & Cement:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Unique ID</th>
<th>Top</th>
<th>Bottom</th>
<th>Install Date</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borehole</td>
<td>F1</td>
<td>12</td>
<td>132</td>
<td>05/21/2018</td>
<td>New</td>
<td>Actions</td>
</tr>
<tr>
<td>Borehole</td>
<td>F2</td>
<td>132</td>
<td>1029</td>
<td>05/25/2018</td>
<td>New</td>
<td>Actions</td>
</tr>
<tr>
<td>Borehole</td>
<td>F3</td>
<td>1029</td>
<td>1745</td>
<td>05/26/2018</td>
<td>New</td>
<td>Actions</td>
</tr>
<tr>
<td>Conductor</td>
<td>F4</td>
<td>12</td>
<td>132</td>
<td>05/22/2018</td>
<td>New</td>
<td>Actions</td>
</tr>
<tr>
<td>Liner</td>
<td>F7</td>
<td>907</td>
<td>1745</td>
<td>05/26/2018</td>
<td>New</td>
<td>Actions</td>
</tr>
<tr>
<td>Production Casing</td>
<td>F6</td>
<td>12</td>
<td>955</td>
<td>05/25/2018</td>
<td>New</td>
<td>Actions</td>
</tr>
</tbody>
</table>
Well Summary

Section 8. Features & Cement:

[Construction Feature form with fields for Feature, Feature Top MD (ft), Feature Bottom MD (ft), Outside Diameter (decimal inches), Inside Diameter (decimal inches), Weight (lbs), Feature Grade/Type, New Pipe, Pull Date, Install Date, Remove Date, Connection Type, Description.]

* Indicates Required Field

All comments are discoverable records, open to public review.
Section 8. Features & Cement:

- **Feature**: Conductor
- **Feature Top MD (ft)**: 23
- **Feature Bottom MD (ft)**: 63
- **Outside Diameter (decimal inches)**: 16.000
- **Inside Diameter (decimal inches)**: 
- **Weight (lbs)**: 42.05
- **Grade/Type**: K55
- **New Pipe**: Pulled
- **Install Date**: 1/28/2018
- **Remove Date**: 
- **Connection Type**: 
- **Description**: Conductor

*All comments are discoverable records, open to public review.*
Section 8. Features & Cement:

Well Summary
## Well Summary

**Section 8. Features & Cement:**

<table>
<thead>
<tr>
<th>Field</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associated Feature</td>
<td>Put the total number of Sacks here</td>
</tr>
<tr>
<td>Inside/Outside Casing?</td>
<td>Put the conversion factor from sacks to cubic feet</td>
</tr>
<tr>
<td>Top</td>
<td>Put the total number of Cubic Feet here</td>
</tr>
<tr>
<td>Volume (cubic ft)</td>
<td></td>
</tr>
<tr>
<td>Volume (Sacks)</td>
<td></td>
</tr>
<tr>
<td>Verify Method</td>
<td></td>
</tr>
<tr>
<td>Cement Segment</td>
<td></td>
</tr>
<tr>
<td>Install Date</td>
<td></td>
</tr>
<tr>
<td>Remove Date</td>
<td></td>
</tr>
<tr>
<td>Cement ID</td>
<td></td>
</tr>
<tr>
<td>Job Type</td>
<td></td>
</tr>
</tbody>
</table>

How do we know where the cement is?
**Section 8. Features & Cement:**

<table>
<thead>
<tr>
<th>Cement Class</th>
</tr>
</thead>
</table>
| **Associated Cement Segment** | **Cement Type**  
| C3 | Type III  
| **Compressive Strength** | **Weight (lbs/gal)** | **Slurry Consistency (Bu)**  
|  | 13.2 |  
| **Lead/Tail** |  
| Lead |  
| **Description** |  
| Type III Cement + 35% Silica Flour + 10% Cenospheres + 10% Gypsum + 2% CaCl₂ + 1.5% Sodium Metasilicate + 8 lbs/ak Kol-Seal + 0.25 lbs/ak Collo-Flake at 13.2 ppg at 5bpm (Yield 2.46 ft³/sk, water 10.36 gal/sk) |  
| All comments are discoverable records, open to public review. |  

**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:

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).
Section 9. Completion & Perforation:

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

Section 9. Completion & Perforation:

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

Decimal inches, up to 3 decimals

In inches, up to 2 decimals
Section 10. Document Upload:

### Document Upload

<table>
<thead>
<tr>
<th>API Number</th>
<th>Well Designation</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>0403063120</td>
<td>321-J-10H</td>
<td>Any Field</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Well Type</th>
<th>Notice Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil &amp; Gas</td>
<td>NOI</td>
</tr>
</tbody>
</table>

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

### Uploaded Documents

<table>
<thead>
<tr>
<th>Upload Date</th>
<th>Upload Reason</th>
<th>Type</th>
<th>Description</th>
<th>Filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/02/2018</td>
<td>Kayla Kendig</td>
<td>Well History</td>
<td>Drill History</td>
<td>0403063120_20_Drill_History_3_21-J-10H_06-26-2018.pdf</td>
</tr>
</tbody>
</table>

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

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.
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