



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

# WellSTAR

## User Reference Guide

Application for Well Stimulation Permit

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## **COURSE OVERVIEW**

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### **Course Description**

This course describes that well stimulation and cleanout information is tracked and maintained within the Well Stimulation capability. This includes, but is not limited to, managing alerts to operators, accepting applications and permits for well stimulation, notification of deadlines, recording testing data and the ability to receive documentation related to end of the treatment and post-simulation.

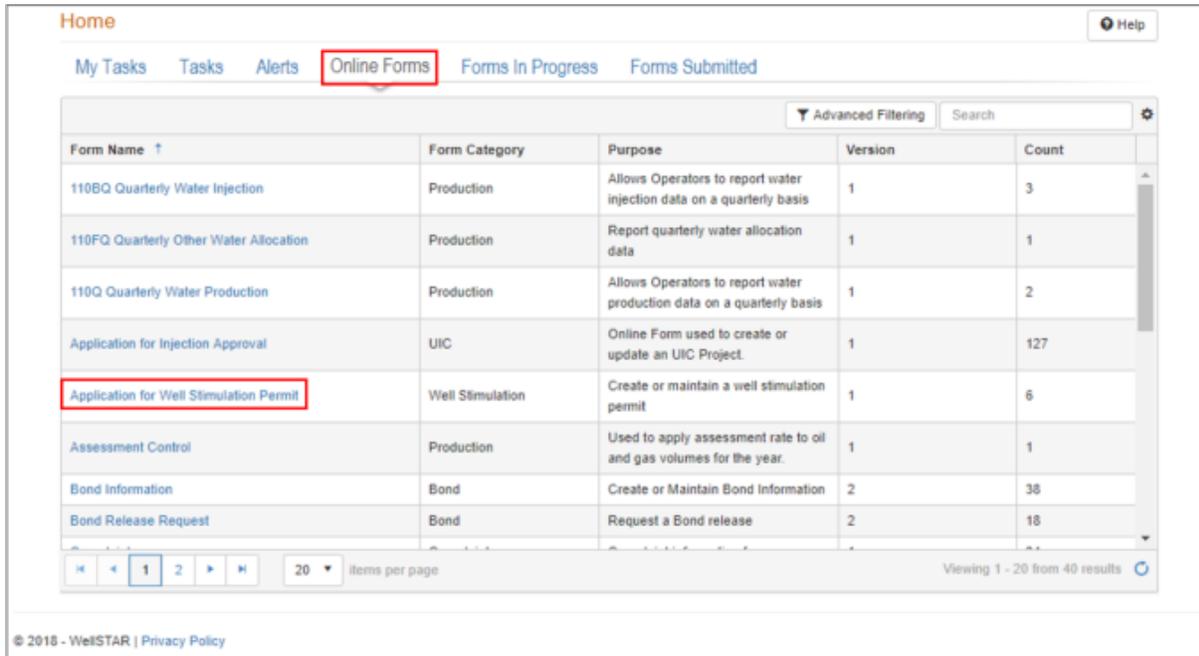
# 1 SUBMIT APPLICATION FOR WELL STIMULATION PERMIT

In this lesson you will learn how to submit an Application for Well Stimulation Form.

Lesson Objectives:

- Submit an Application for Well Stimulation Form

## 1.1 Submit an Application for Well Stimulation Permit Form



Step	Action	Required Fields
1.	From the Home screen, select <b>Online Forms</b> .	
2.	In the search bar on the right, type in “ <b>Application for Well Stimulation Permit</b> ”.	
3.	Click on the blue hyperlink labeled <b>Application for Well Stimulation Permit</b> .	

## Section 1. Form Information

Form Information

Please enter information below. \* Indicates required field

**Form Name**  
Application for Well Stimulation Permit

**Organization \***

Aera Energy LLC (A0610) - Bakersfield, CA

**Description \*** ?

Enter Naming Convention Here

All comments are discoverable records, open to public review.

Cancel
Save & Continue

Step	Action	Required Fields
1.	You will be taken to Section 1. Form Information. Start by typing in the <b>Organization Name</b> and search for the correct organization for the dropdown.	Organization
2.	Enter in a <b>Description</b> for this Application for Well Stimulation Permit Form. <b>NOTE:</b> It is recommended to enter “ <b>Well Name/API, Facility Name or Operator</b> ” in Description so that this information can also be used to locate the form. <b>Example: Lake View 2 030-12345</b>	Description

## Section 2. Operator Information

**Operator Information**

Please confirm the correct Organization has been selected, and designate contact(s) with their correct role. By default, the Organization's Agent and the form submitter are selected as contacts. \* Indicates Required Field

<b>Organization Name</b> Aera Energy LLC (A0610)	<b>Type of Organization</b> Corporation
<b>Organization Primary Address</b> 10000 Ming Avenue Bakersfield, CA 933111301	
<b>Organization Primary Phone Number</b> (661) 665-5325	<b>Ext</b>

Contacts

Name ↑	Phone Number	Email	Role	Actions
Jeffrey Young	(661) 665-5693	jayoung@aeraenergy.comx	Agent	
John Wilson	(661) 326-6026	John.Wilson@conservation.ca.govx	Submitter	

[Back](#)
[Next](#)
[Save](#)

Step	Action	Required Fields
1.	Review organization details for correctness. <i>Note:</i> changes cannot be made to organization details here.	
2.	Select contacts responsible for form completion and submission.	
3.	If the person is not listed on the contacts list, click <b>“Actions”</b> .	
4.	Click <b>“Add Contact”</b> .	
5.	Complete contact info dialogue box that appears.	
6.	Click blue <b>“Update”</b> button.	
7.	Click <b>“Next”</b> . <span style="background-color: #f4a460; padding: 2px 5px; border: 1px solid #ccc;">Next</span>	

### Section 3. General Information

Well Information

Please verify data reflects the current condition of the well. Updates can be done through the Notice of Intention or Well Summary forms.

This form is being submitted concurrently with a submitted Notice of Intention Form.

**API \***

**Wellbore Code \***

**Has drilling been completed? \***  
 Yes  No

**Spud Date**

**Well Summary Submission Date**

**Lease**

**Well Number**

**Well Status**

**Well Type**

**Plugback Depth MD (ft)**

**Plugback Depth TVD (ft)**

**Original Total Depth MD (ft)**

**Original Total Depth TVD (ft)**

**Confidential Well?**

Stimulation Information

**Type of Stimulation \***

**Is this a continuous operation?**  
 Yes  No

**Est. Treatment Start Date \***

**Est. Treatment End Date**

Location Information

Offshore/Onshore

Onshore

Field

Belridge, South

County

Kern

Section

02

Township

29S

Range

21E

Base Meridian

Latitude

35.42916489

Longitude

-119.68505096

Critical Well?

No

California Environmental Quality Act (CEQA) Information

CEQA Lead Agency \*

Local Agency

Notice of Determination Date \*

2/1/2019



State Clearinghouse ID \*

15643255

Agency Name \*

Kern County

NEPA Agency Name

Other NEPA Agency Name

Groundwater Monitoring Plan (GWMP) Information

Documentation from the SWRCB stating the proposed stimulation treatment is covered by a groundwater monitoring plan (GWMP) or an Exclusion pursuant to Water Code section 10783 (h) (1).

Does a GWMP or an Exclusion exist? \*

Yes  No

GWMP or Exclusion?

GWMP  Exclusion

Please attach the SWRCB approval letter to this application.

Step	Action	Required Fields
1.	Select whether this form is being submitted concurrently with a Notice of Intention form.	
2.	Select the desired <b>API Number</b> and <b>Wellbore Code</b> .	API Number and Wellbore Code
3.	Select whether drilling has been completed or not.	Has Drilling Been Completed?
4.	Enter the Spud Date and the Well Summary Submission Date.	
5.	Enter the <b>Type of Stimulation</b> .	Type of Stimulation
6.	Select whether this is a continuous operation or not.	
7.	Enter the <b>Est. Treatment Start Date</b> and the Est. Treatment End Date.	Est. Treatment Start Date
8.	Review the Location Information.  NOTE: Any edits to this information will need to be made on a Well Summary for the well.	
9.	Enter the <b>CEQA Information</b> .	CEQA Lead Agency, Notice of Determination Date, State Clearing House ID, Agency Name
10.	Enter the <b>GWMP Information</b> .	Does a GWMP or an Exclusion exist?



## Section 4. Treatment Information

Please enter information below.

\* Indicates required field

Stage No. \*

Perforation Information

Top MD (ft) \*

Top TVD (ft) \*

Bottom MD (ft) \*

Bottom TVD (ft) \*

Net Perforations (ft) \*

Packer Depth MD (ft)

Packer Depth TVD (ft)

Fracture Geometry

Length (ft) \*

Height (ft) \*

Width (in) \*

Azimuth\*\*

ADSA Dimensions

1× ADSA Top TVD (ft) \*

1× ADSA Bottom TVD (ft) \*

2× ADSA Top TVD (ft) \*

2× ADSA Bottom TVD (ft) \*

5× ADSA Top TVD (ft) \*

5× ADSA Bottom TVD (ft) \*

Geology

Formation \*

Formation Top TVD (ft) \*

Formation Top MD (ft) \*

Formation Bottom TVD (ft) \*

Zone 1 Bottom TVD (ft)

Zone 2 Bottom TVD (ft)

Zone 3 Bottom TVD (ft)

Field \*

Area \*

Pool Code \*

Maximum Fluid Volumes and Proppant

Slurry Volume (bbl) \*

Clean Fluid Volume (bbl) \*

Proppant Concentration (ppg) \*

Maximum Treatment Rate and Pressure

Max. Treatment Rate (bbl/min) \*

Max. Injection Pressure – Surface (psi) \*

Max. Injection Pressure – Bottom Hole (psi) \*

Cancel

Save

Casing/Tubing Used for Treatment



Please enter information below.

\* Indicates required field

Casing  Tubing

Casing/Tubing (OD) through which well stimulation fluid is conducted (in) \*

Previous larger tubular or casing (ID) (in) \*

Previous larger tubular or casing (OD) (in) \*

Annulus cemented to surface

Calculated pressure increase due to pressure and/or temperature expansion (psi)

Formula used to calculate

Collapse (psi)

Internal Yield (psi)

Packer  Yes  No

Packer Pressure Differential Rating (psi)

Step	Action	Required Fields
1.	Click the Actions Button and select <b>Add New</b> .	
2.	Enter all the <b>Stage Information</b> .	Stage no.; Perforation Information: Top (MD), Top (TVD), Bottom (MD), Bottom (TVD), Net Perforations; Fracture Geometry: Length, Height, Width, Azimuth; ADSA Dimensions: 1x ADSA Top TVD, 1x ADSA Bottom TVD, 2x ADSA Top TVD, 2x ADSA Bottom TVD, 5x ADSA Top TVD, 5x ADSA Bottom TVD; Geology: Formation, Formation Top TVD, Formation Top MD, Formation Bottom TVD; Field; Area; Pool Code; Slurry Volume; Clean Fluid Volume; Proppant Concentration; Max Treatment Rate; Max Injection pressure- Bottom Hole
3.	Enter the <b>Casing/Tubing Information</b> .	Casing/Tubing OD; Previous larger tubular or casing (ID); Previous larger tubular or casing (OD)
4.	Select <b>"Next"</b> . 	

## Section 5. Chemical Constituents

✕
Chemical Constituent Information

Please enter information below. \* Indicates Required Field

**Stage No. \***

**Chemical Name \***  **Service Provider \***

**CAS #**  **Unique ID (if no CAS #)**

**Concentration % Mass \***

Step	Action	Required Fields
1.	Click the Actions button and select <b>Add New</b> .	
2.	Enter all <b>Chemical Constituent Information</b> .	Stage no.; Chemical Name; Service Provider; Concentration % Mass
3.	Select <b>"Next"</b> . <input type="button" value="Next"/>	

## Section 6. Water & Waste Materials

Base Fluid Information
✕

Please enter information below. \* Indicates Required Field

Is a fluid other than water planned to be used?

<p><b>Water Source Name *</b></p> <input style="width: 90%;" type="text" value="California Aqueduct"/>	<p><b>Water Source Location *</b></p> <input style="width: 90%;" type="text" value="Industrial II"/>
<p><b>Water Source Type *</b></p> <input style="width: 90%;" type="text" value="Surface Water-Manmade"/>	<p><b>Describe Other Water Source *</b></p> <input style="width: 90%;" type="text" value="N/A"/>
<p><b>Base Fluid Suitability for Other Uses *</b></p> <input style="width: 90%;" type="text" value="Suitable for Irrigation/Domestic Use"/>	<p><b>Title 22 Constituents</b></p> <div style="border: 1px solid #ccc; padding: 2px;"> <input type="text" value="Fluoride salts"/> ✕         </div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 2px;"> <input type="text" value="Lead (or lead compounds)"/> ✕         </div>
<p><b>Water Source Well ID *</b></p> <input style="width: 90%;" type="text" value="N/A"/>	<p><b>Surface Water Diversion Point *</b></p> <input style="width: 90%;" type="text" value="BWSD Aqueduct Turnout BEL 5"/>
<p><b>Purchased? *</b></p> <input style="width: 90%;" type="text" value="Yes"/>	<p><b>Supplier Name *</b></p> <input style="width: 90%;" type="text" value="Belridge Water Storage District"/>
<p><b>Volume Used (bbl) *</b></p> <input style="width: 90%;" type="text" value="1174"/>	<p><b>Flashpoint (°C)</b></p> <input style="width: 90%;" type="text"/>
<p><b>pH</b></p> <input style="width: 90%;" type="text"/>	

**Estimated water volume, in bbls, to be used during the treatment:**

×
Recovered Fluid Information

Please enter information below. \* Indicates Required Field

**Fluid Information**

---

**Disposal Information**

---

**Disposal Method \***

**Disposal Location \***

**Describe Other Disposal Method \***

**UIC Project ID \***

**Injection Operator**

**Injection Field**

Step	Action	Required Fields
1.	Enter the <b>Base Fluid Information</b> .	Water Source Name; Water Source Location; Water Source Type; Base Fluid Suitability for Other Uses; Water Source Well ID; Surface Water Diversion Point; Purchased? Supplier Name; Volume Used
2.	Enter the estimated volume of water to be used during the treatment.	
3.	Enter the <b>Recovered Fluid Information</b> .	Disposal Method; Disposal Location; UIC Project ID
4.	Select " <b>Next</b> ". <input style="background-color: #f4a460;" type="button" value="Next"/>	

## Section 7. ADSA Wells

ADSA Wells

Please enter information below. \* Indicates required field

Select Wells to Include in the Area Analysis

Advanced Filtering Actions Search

<input type="checkbox"/>	API ↑	Well Desig...	Operator N...	Current Type	Current St...	Field
<input type="checkbox"/>	0401900061	136X	Aera Energy LLC	Oil & Gas	Idle	Coalinga
<input type="checkbox"/>	0401900067	Aztec 1-A	Aera Energy LLC	Oil & Gas	Idle	Coalinga
<input type="checkbox"/>	0401900108	639	Aera Energy LLC	Oil & Gas	Idle	Coalinga
<input type="checkbox"/>	0401900521	154	Aera Energy LLC	Oil & Gas	Idle	Coalinga
<input type="checkbox"/>	0401900533	275	Aera Energy LLC	Oil & Gas	Idle	Coalinga

1 2 3 4 5 6 7 8 9 10 ... 10 items per page

Viewing 1 - 10 from 21010 results

Wells Included in the Area Analysis

3D ADSA Map has been generated?

Yes

2 \* ADSA Review ×

\* Indicates required field

<p><b>API *</b></p> <input type="text" value="0401900521"/>	<p><b>Well Type</b></p> <input type="text" value="Oil &amp; Gas"/>
<p><b>Well Designation</b></p> <input type="text" value="154"/>	<p><b>Well Status</b></p> <input type="text" value="Idle"/>
<p><b>Previously Stimulated</b></p> <input type="text" value="Stimulated"/>	<p><b>In 2 ADSA? *</b></p> <input type="text" value="Yes"/>
<p><b>USDW Present? *</b></p> <input type="text" value="No"/>	<p><b>ADSA Location *</b></p> <input type="text" value="A"/>
<b>Non-Abandoned Wells</b>	
<p><b>Damage Type *</b></p> <input type="text" value="Parted Casing or ..."/>	<p><b>Damage Location *</b></p> <input type="text" value="Out of Zone"/>
<b>Abandoned Wells</b>	
<p><b>Perforation Location</b></p> <input type="text" value="A"/>	<p><b>Tubing Tail Depth (ft)</b></p> <input type="text"/>
<p><b>Damage Location</b></p> <input type="text" value="Below C/O Depth ..."/>	

**Notes**

**This well has been abandoned to current standards as defined in 14 CCR § 1723. \***

**As of \***

**Is this an offset well monitored by permit conditions? \***

**Well Last Review Date**

Step	Action	Required Fields
1.	Select the wells included in the ADSA.	
2.	Under the Actions hyperlink select <b>Edit Record</b> .	
3.	Enter the <b>2x ADSA Review</b> .	In 2x ADSA? USDW Present?; ADSA Location; Damage Type; Damage Location; This well has been abandoned to standards?; As of?; Is this an offset well monitored by permit conditions
4.	Select <b>"Next"</b> . 	

### Section 8. Document Upload

Step	Action	Required Fields
1.	Upload any pertaining documents applicable to the Application for Well Stimulation Permit form. This can include (list the 5 documents specified the SMEs).	
2.	To upload, click <b>Actions</b> Then <b>Add New</b> . A popup will expand below.	
3.	In this popup, input all information. To add the document, select <b>Browse</b> , search for the correct file and click <b>Upload</b> . Or select <b>Associate Existing WellSTAR Document</b> and select the document ID.	Type, Relevant Date, Description, Document ID
4.	Select <b>"Next"</b> . 	

### Section 9. Form Submit

**Acknowledgement**

**Submitter**

**Date Received**

8/9/2018 

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete. \*

**Form Submit Preview**

Click the button below to preview your submission summary.

Preview Submission Summary

Back
Submit
Save

Step	Action	Required Fields
1.	If any form needs to be added, click <b>Add Form</b> . This creates a popup. Type in the form ID or name and click <b>“Save”</b> .	
2.	If any comments pertaining to the submittal is needed, type in the comment and click <b>Add Comment</b> .	
3.	When ready to acknowledge, click the box label <b>“I hereby certify...”</b> . This auto populates the user’s name who is filling out the form.	
4.	Click the button <b>“Preview Submission Summary”</b> to generate the submission.	
5.	When satisfied with the submission, click <b>“Submit”</b> .	

## Section 10. Confirmation

Step	Action	Required Fields
1.	No action needed. NOTE: The form is submitted and goes through an internal review process. The Review Task is created for the WST Review Workgroup.	

### 1.1.1 Key Points

- Any well information is read-only and must be edited using a Well Summary form.
- Required documents to be uploaded with the application include:
  - ADSA Diagram
  - Surface Equipment
  - Work Operation Program
  - Structure Contour Map and Cross-section
  - Geologic Evaluation
  - Professional Stamp for Geologic Evaluation
  - Casing Diagrams for ADSA Wells
  - Frac Model Documentation
  - Water and Waste Management Information
  - CEQA Operator Checklist
  - CEQA Project Description
  - CEQA Indemnity Agreement
  - CEQA Toxicity Data