



Filing Completions for Oil & Gas

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May 2020





COMPLETIONS OVERVIEW AND DISCUSSION

Form W-2/G-1

Class Synopsis



This presentation is a general overview of how to file Completion Reports utilizing the Railroad Commission of Texas Online Completion Filing System.



Completion Reports are **due**:

- within **90 days** after completion of the well
- or within **150 days** after the drilling operation is completed
- **whichever** is earlier.



Subsequent Completion Reports are due:

- within **30 days** of any *physical changes* made to wellbore structure
 - Adding new and/or squeezing perforations
 - Adding a liner
 - Adding tubing
 - Setting CIBP with/without cement

Navigating to the Online System



<https://www.rrc.texas.gov/>

The screenshot shows the homepage of the Railroad Commission of Texas website. At the top, there is a navigation bar with links for "Contact Us", "RRC A to Z", "RRC Online Log In" (highlighted with a red box), "Jobs", and "Resource Center". A search bar is located on the right side of the navigation bar. Below the navigation bar is the RRC logo and a horizontal menu with links for "About Us", "Oil & Gas", "Alternative Fuels", "Gas Services", "Pipeline Safety", "Mining & Exploration", "Hearings", and "General Counsel". The main content area features a large heading "Railroad Commission of Texas" and a yellow highlighted box titled "Capitol Complex Construction" containing text about visiting the RRC's Austin offices. Below this, there is a section titled "The Railroad Commission serves Texas through:" followed by a bulleted list of three points. At the bottom left, there are links for "Learn More" and "Recent News View All". On the right side, there is a "Commissioners" section with three circular portraits and their names: "Chairman Wayne Christian", "Commissioner Christi Craddick", and "Commissioner Ryan Sitton". Below this is a "What We Do" section.

Log In



RRC ONLINE SYSTEM Choose an Application Go Log In

Log In

Log in to access the RRC Online System.

UserID: Password:

Required

[Forgot Password?](#) OR [Forgot User Id?](#)

The RRC Online System allows authorized entities to electronically file certain forms with the Railroad Commission online or through EDI. Forms processed through this system are ones containing data that has been migrated from the Commission's mainframe to an open system environment. Through the RRC Online System, forms can be filed online over the Internet using a web browser, or data files can be uploaded through the application.

How to Obtain a User ID:

To utilize the Online Filing system, you must have a User ID that is assigned to you by your company's designated Security Administrator. A company or individual may designate a Security Administrator by completing the Security Administrator Designation (SAD) form and mailing it to the RRC. When the SAD form is processed, the Security Administrator will receive a User ID and a temporary initial password. The Security Administrator will be able to log into the RRC Online System using their assigned User ID and create User IDs for users within their company. They will also be able to assign certain electronic filing rights for those accounts, and perform account maintenance activities (such as resetting passwords) when needed.

If you are uncertain whether your company has a security administrator, please email the Commission at rrconline-security@rrc.state.tx.us.

1. [Read](#) the requirements for participating in online filing.
2. [Print](#) the SAD form.
3. Complete and sign the form then mail it to the RRC, following instructions on Page 2 of the form. When the form is processed, the designated security administrator will receive a User ID and temporary password by email.
4. The security administrator will log into the system and assign User IDs and filing rights.

Enter your UserID & Password. If you have forgotten either use the Forgot Password? & Forgot User ID options to have instructions emailed to you.

Online Applications



The screenshot shows the RRC Online System homepage. At the top left is the RRC logo and the text "ONLINE SYSTEM". At the top right is a search bar with "Choose an Application" and buttons for "Go" and "Log Out". Below the search bar are navigation links for "Home", "General Help", and "About". The main heading is "Welcome to the RRC Online System".

On the left side, there is a "Main Application" section with a list of links:

- [Account Administration](#)
- [Production Reports](#)
- [Drilling Permits \(W-1\)](#)
- [Completions](#)
- [P-4 Change of Gatherer/Purchaser](#)
- [Well Status Report \(G10/W10\)](#)
- [Digital Well Log Submission](#)

On the right side, there is a "WHAT'S NEW?" section with the following text:

WELL LOGS CAN NOW BE SUBMITTED ELECTRONICALLY.

FOR MORE INFORMATION CLICK ON THE FOLLOWING LINK.

[Digital Well Log System Available Online](#)

If you have any issues with applications accessed via the new portal, return here and use the current RRC Online System.

[RRC Online Home page \(New\)](#)

[Getting Started with the new RRC Online home page](#)

An annotation box with the text "Important Messages & Upcoming Events will appear here." has an arrow pointing to the "WHAT'S NEW?" section.

Completion Application



RRC ONLINE SYSTEM Choose an Application Go Log Out

Oil & Gas Completions

[Completions Home](#) [Completions Menu](#) [PB Menu](#) [Internal Menu](#) [Help](#)

Well Completions

- Completions Package**
 - Filing Completion Package**
 - [Completions Query](#)
- P-8**
 - [Filing P-8](#)
- Directional Survey**
 - [Directional Survey Query](#)
- Internal**
 - [Hard Copy Packet Edit](#)
 - [Internal Workflow](#)

On-Line Completions - Posted July 1, 2014

Effective January 1, 2014, changes to filing requirements for completions have updated to reflect revisions to Oil & Gas Statewide Rule 13 related to Casing, Cementing, Drilling, Well Control, and Completion Requirements. For further information on the changes to Rule 13, please see <http://www.rrc.state.tx.us/environmental/rule13/index.php>.

The online Well Completions application was updated to reflect these changes on January 27, 2014. The additional requirements apply to wells spudded on or after January 1, 2014. For those wells, filers will be guided to provide information needed to comply with the amended Rule 13 requirements.

NOTE: The Commission has also adopted revisions to Forms G-1 and W-2 to conform with the Rule 13 changes; the revised forms are available through the Commission's website at <http://www.rrc.state.tx.us/forms/forms/og/alpha.php>. The G-1 and W-2 PDF images generated by this system will be updated to reflect those changes in the near future.

Please review the help section prior to contacting RRC staff. Questions can be e-mailed to prorationunit@rrc.state.tx.us

[Disclaimer](#) | [RRC Online Home](#) | [RRC Home](#) | [Contact](#)

Important Messages
& Upcoming Events
will appear here.

Select Filing Operator



RC ONLINE SYSTEM Choose an Application Go Log Out

Oil & Gas Completions

Completions Home Completions Menu PB Menu Internal Menu Help

Select Filing Operator

Filing operator: Undefined

Search by Operator Number

Operator Number: 000010 Search

Search by Operator Name

Beginning with these characters
 Containing these characters
 Matching these characters exactly

Operator Name: Search

Search Results

000010 - RAILROAD COMMISSION DISTRICT 08

Set Filing Operator

If you are filing as a Consultant/Agent you will need to enter the appropriate Operator information here. If you are filing as an Operator then the online system will automatically select your operator number.

Filing Options



Well Completions

Filing Operator: RAILROAD COMMISSION DISTRICT 08 (000010)

Filing Completion Package

[File a New Completion Packet](#)

[Update Existing Completion Packet](#)

[Select Filing Operator](#)

My Messages [Operator Messages](#) [Recent Notifications](#)

1 - 10 of 373 results

[<<First] [<Previous] [Next>] [Last>>] | Page: 1 2 3 4 5 6 7 8 9 10 of 38

Page Size: 10

Tracking No.	User	Operator	Status	Sent By	Current Messages	Response Count
6132	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/21/2011)	Thompson, Pamela	Please revise P4 condensate gatherer ID number from #241402 to #241399. ID #241402 is not active; The P4 has been unlocked so that you can make your correction. I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6133	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/21/2011)	Thompson, Pamela	Please revise P4 condensate gatherer (Eclipse)ID #241402 to #241399; The P4 is unlocked so that you can make the correction; I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6137	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/24/2011)	Thompson, Pamela	Please revise P4 condensate gatherer ID #241402 to #241399 (Eclipse Services Inc.); The P4 is unlocked so that you can make the correction; I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6138	Stasulli, Joseph	QUICKSILVER RESOURCES INC.	Published (01/24/2011)	Thompson, Pamela	Please revise P4 condensate gatherer ID #241402 to #241399 (Eclipse Services Inc.); The P4 is unlocked so that you can make the correction; I can be reached at pamela.thompson@rrc.state.tx.us or 512-463-6741;	0
6312	Stasulli, Joseph	KINDER MORGAN PRODUCTION CO LLC	Published (05/07/2012)	Barnes, Marty	Do you wish this packet to be deleted since it was replaced with packet #93457? Cannot process until you complete certification of W-2 form...	3
6312	Stasulli, Joseph	KINDER MORGAN PRODUCTION CO LLC	Published (05/02/2011)	Barnes, Marty	You will need to certify your form W-12 for us to complete a review of your Completions Packet.	0
6333	Stasulli, Joseph	SONERRA RESOURCES CORPORATION	Published (02/09/2011)	Rodriguez, Mary	Earl, as we discussed, Please correct the acres on the G-1 to match the P-12.	0
6632	Stasulli, Joseph	LOCKOUT CORPORATION	Published (01/28/2011)	Barnard, Pamela	File a Corrected Form L-1 or Log; Form L-1 indicates log attached but log has not been filed.	0
6635	Stasulli, Joseph	CHOLLA PETROLEUM, INC.	Published (02/28/2011)	Garrison, Cathy	If this is a well on an existing lease please enter lease number from now on.	0
6635	Stasulli, Joseph	CHOLLA PETROLEUM, INC.	Published (03/30/2011)	Garrison, Cathy	Is this an existing lease?	0

Identify the Well



Well Completion Package

Filing Operator: RAILROAD COMMISSION DISTRICT 08 (000010)

To create a new Completion Package enter a Drilling Permit number or an American Petroleum Institute (API) Number. This number will be used to list all the Drilling Permits associated with the data entered.

Drilling Permit No.: Or API No.:

Either option may be used but the drilling permit number is recommended.

Filing Operator's Packets that have the status of **Work In Progress** or **Pending Operator Update**.
If you wish to update any of the Packets listed below, click on the Completions Menu tab and select the **Update Existing Completion Packets** menu option.

0 results Page: 1 of 1 Page Size:

Tracking No.	Drilling Permit No.	API No.	District	Well Type	Completion Type	Well No.	Packet Status
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Select the Field



Wells Found

Filing Operator: RAILROAD COMMISSION DISTRICT 08 (000010)

If the Well you wish to use for this Completion Packet is listed below, click the New Packet button and enter your information. If the Well is not listed, select the Return To Search button to apply a different search criteria.

[Return To Search](#)

3 results

Page: 1 of 1

Page Size: [View All](#) ▼

Drilling Permit/Issued	API No.	Lease Name	Field Name	District	Lease No./Gas ID	Well No.	
745925 / 09-25-2012	17335230	HARDY 18	SPRABERRY (TREND AREA)	08		8	New Packet
745925 / 08-14-2012	17335230	HARDY 18	GARDEN CITY, NW (STRAWN)	08		8	New Packet
745925 / 08-14-2012	17335230	HARDY 18	SPRABERRY (TREND AREA)	08		8	New Packet

[Return To Search](#)

Select the field the well was completed in. If the well is downhole commingled you need to select the primary reporting field specified on your approved SWR-10 letter.

Initial Packet Description



Packet Data

Filing Operator: RAILROAD COMMISSION DISTRICT 08 (000010)

Packet Summary Data		Submitted: Online	
Tracking No.:		Status:	Work in Progress (unknown)
Operator Name:	RAILROAD COMMISSION DISTRICT 08 (000010)	Completion or Recompletion Date:	
Field Name:	SPRABERRY (TREND AREA)	Purpose Of Filing:	
Lease Name:	HARDY 18	County:	GLASSCOCK
RRC District No.:	08	Drilling Permit No.:	745925
RRC Gas ID or Oil Lease No.:		Wellbore Profile:	
Well No.:	B		
API No.:	173-35230		

Step 1 - Packet Data
Step 2 - Completion Data
Step 3 - Complete Additional Forms
Step 4 - Load Attachments
Step 5 - Submit

Initial Potential: This filing is for a well, which is not on schedule and will be assigned a RRC ID/Lease number or is being added to an existing oil lease.

Retest: Producing wells that are retesting. When simply testing your well and not making any physical changes in the well, such as changes in perforations, or openhole or casing records, etc., file your test on a N-10 or G-10. Do not use a M-2 or G-1 completion form.

Reclass: Wells being reclassified to Oil or Gas wells. Existing well on schedule being reclassified to a UIC well. Existing UIC well being reclassified to a Producing or Shut-In well. Examples of UIC wells are Injection, Storage, and Brine Mining.

Well Record Only May apply to one of the following:

- New Drills or Recompletions with no test
- Shut-In Producer waiting on a pipeline connection
- Change of perforations (same zone no test ran)
- Well number changes
- Statewide Rule 10 (non-reporting zone)
- Wellbore work - add tubing, replaced casing, set packer, or any other work procedure that changes the configuration of the wellbore.

Create Packet | Return To Results

Initial Packet Description

Purpose Of Filing:	Initial Potential
Type Of Completion:	New Well
Well Type:	Producing
Wellbore Profile:	DIRECTIONAL
Type of Completion Packet:	Oil / N-2
Horizontal Wellbore Profile Type:	-Select One-

Required Information

Packet Description Options



Purpose Of Filing

Initial Potential

Retest

Reclass Oil to Gas

Reclass Gas to Oil

Reclass Injection to Producing

Reclass Producing to Injection

Well Record Only

PSA/Allocation Completion Type

PSA

Allocation

Not Applicable

Type of Completion

New Well

Deepening

Plug Back

Sidetrack

Re-entry

Other/Recompletion

Type of Completion Packet

Gas / G-1

Oil / W-2

Well Type

Producing

Shut-In Producer

Active UIC

Shut-In UIC

Wellbore Profile

Horizontal

Directional

Vertical

Sidetrack

Verify Packet Data



Packet Data | **W-2** | Complete Additional Forms | Load Attachments | Messages | Submit

Packet Data Oil / W-2

Packet Summary Data	Submitted: Online	Current Status
Tracking No.: 230574	Status: Work in Progress	
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well	
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date:	
Lease Name: HARDY 18	Purpose Of Filing: Initial Potential	
RRC District No.: 08	Well Type: Producing	
RRC Gas ID or Oil Lease No.	County: GLASSCOCK	
Well No.: 8	Drilling Permit No: 745925	
API No.: 173-35230	Wellbore Profile: DIRECTIONAL	
Field No.: 85280300		

Step 1 - Packet Data
Step 2 - W-2 Data
Step 3 - Complete Additional Forms
Step 4 - Load Attachments
Step 5 - Submit

Please fill out the necessary packet data below. Use the Save button to save updates at any time. At this point a Packet has been created and a number assigned. The Packet Tracking Number is displayed in the Packet Summary Data above. The Tracking number will be used to track your packet. Please record this information for future references. When the Save button is pressed, the packet will be saved but not submitted for processing. Submitting the Packet for processing is done after all the required data, forms and attachments have been entered for this packet.

Tracking # (points to Tracking No.: 230574)

Current Status (points to Status: Work in Progress)

If packet data corrections are needed select the Change Packet Description button. (points to Change Packet Description button)

Well Data & Workover Info.



**A.K.A. Completion Date:
The date well is capable of
production by flipping a
switch or turning a valve.**

Date of first production after rig released: 06/15/2019
Spud Date: 01/25/2019
Type of Electric or other Log Run: Acceptable cased hole logs

This well is located: 19.9 miles in a N direction from: RANKIN, which is the nearest town in the county.

If recompletion or reclass, give former field (with reservoir) & gas ID or oil lease No.:							
Row	Field & Reservoir	Lease No.	Well Type	Well No.	District Code	Field No.	Prior Service Type
1							

Drilling Permit Restrictions and Statewide Rule Exceptions

Permit Restrictions:

Code	Description
29	THIS WELL MUST COMPLY TO THE NEW SWR 3.13 REQUIREMENTS CONCERNING THE ISOLATION OF ANY POTENTIAL FLOW ZONES AND ZONES WITH CORROSIVE FORMATION FLUIDS. SEE APPROVED PERMIT FOR THOSE FORMATIONS THAT HAVE BEEN IDENTIFIED FOR THE COUNTY IN WHICH YOU ARE DRILLING THE WELL IN.

Field Restrictions: None

Statewide Rule Exceptions: None

Edit Save

Setting the Lease Number



Select Lease

Filing operator: RAILROAD COMMISSION DISTRICT 08 (000010)

Search by Lease Number

Lease No.:

Search by Lease Name

Beginning with these characters
 Containing these characters
 Matching these characters exactly

Lease Name:

Search Results

HARDY 18 - 41707 08

If this well is going onto an existing lease then you should be adding the lease number to the packet data at this time.

Search for Field & Reservoir



Packet Data | [W-2](#) | [Complete Additional Forms](#) | [Load Attachments](#) | [Messages](#) | [Submit](#)

Packet Data Oil / W-2

Packet Summary Data		Submitted: Online	
Tracking No.: 230574	Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Status: Work in Progress	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Lease Name: HARDY 18	Completion or Recompletion Date:	Purpose Of Filing: Initial Potential
RRC District No.: 08	RRC Gas ID or Oil Lease No.: 41707	Well Type: Producing	County: GLASSCOCK
Well No.: 8	API No.: 173-35230	Drilling Permit No: 745925	Wellbore Profile: DIRECTIONAL
Field No.: 85280300			

[Back](#)

3 results Page: 1 of 1 Page Size: [View All](#)

Drilling Permit No.	Lease Name	Field Name	Field No.	Lease No./Gas ID	Well No.	District	
745925	HARDY 18	SPRABERRY (TREND AREA)	85280300	41707	8	08	Select
745925	HARDY 18	GARDEN CITY, NW (STRAWN)	33997700		8	08	Select
745925	HARDY 18	SPRABERRY (TREND AREA)	85280300	41707	8	08	Select

[Back](#)

Always use the Search for Field & Reservoir button instead of manually keying the workover information. This will automatically fill in the workover information with the correct field number, well number etc.

Packet Data Successfully Saved



(Cmpl_1191) The current page has been saved.

Packet Data [W-2](#) [Complete Additional Forms](#) [Load Attachments](#) [Messages](#) [Submit](#)

Packet Data Oil / W-2

Packet Summary Data

Tracking No.: 230574	Submitted: Online
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Status: Work in Progress
Field Name: SPRABERRY (TREND AREA)	Type Of Completion: New Well
Lease Name: HARDY 18	Completion or Recompletion Date: 12/14/2012
RRC District No.: 08	Purpose Of Filing: Initial Potential
RRC Gas ID or Oil Lease No.: 41707	Well Type: Producing
Well No.: 8	County: GLASSCOCK
API No.: 173-35230 	Drilling Permit No: 745925
Field No.: 85280300	Wellbore Profile: DIRECTIONAL

- Step 1 - Packet Data
- Step 2 - W-2 Data
- Step 3 - Complete Additional Forms
- Step 4 - Load Attachments
- Step 5 - Submit

[Change Packet Description](#)

Please fill out the necessary packet data below. Use the Save button to save updates at any time. At this point a Packet has been created and a number assigned. The Packet Tracking Number is displayed in the Packet Summary Data above. The Tracking number will be used to track your packet. Please record this information for future references. When the Save button is pressed, the packet will be saved but not submitted for processing. Submitting the Packet for processing is done after all the required data, forms and attachments have been entered for this packet.

[Refresh](#) [Save](#)

Well Data

Field Name: SPRABERRY (TREND AREA)	Well No.: <input type="text" value="8"/>
Lease Name: HARDY 18	Well Latitude: <input type="text" value="31.85250"/>
County of Well Site: GLASSCOCK	Well Longitude: <input type="text" value="-101.46028"/>
RRC District No.: 08	Lat/Long Type: <input type="text" value="NAD 27"/>
RRC Gas ID or Oil Lease No.: 41707 Search Lease	Lat/Long Other: <input type="text"/>

This well is located: miles in a: direction from: , which is the nearest town in the county.

Date of first production after rig released: MM/DD/YYYY - If the well is not completed, use the date the rig was released.

Spud Date: MM/DD/YYYY

Type of Electric or other Log Run:

W-2 Page 1 (Potential Test Data)



Page 1

Potential Test Data

Date of Test: 07/10/2019

Hours Tested: 24

Production Method: Pumping

Choke Size:

If Pumping, Pump Size: 4

Pump Type: ESP

Was swab used during this test?: No Yes

Oil Produced Prior to Test: 16254.0 BBL

Injection Gas/Oil Ratio: CF/BBL

Remarks:

Production During Test Period

Oil: 1103.0 BBL

Gas: 1496 MCF

Water: 1864 BBL

Flowing Tubing Pressure: PSIG

Gas - Oil Ratio: 1356 MCF/BBL x 1000

Calculated 24 Hour Rate

Oil: 1103.0 BBL

Gas: 1496 MCF

Water: 1864 BBL

Oil Gravity: 42.3 API-60°F

Casing Pressure: PSIG

Page 1

Form G-1 Page 1 (Test Data)



RRC ONLINE SYSTEM Choose an Application Go Log Out

Oil & Gas Completions

Completions Home Completions Menu P8 Menu Internal Menu Help

Packet Data **G-1** Complete Additional Forms Load Attachments Messages Submit

G-1 Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

Packet Summary Data	Submitted: Online
Tracking No.: 230571	Status: Work in Progress
Operator Name: RAILROAD COMMISSION DISTRICT 04 (000004)	Type Of Completion: New Well
Field Name: SUGARKANE (EAGLE FORD)	Completion or Recompletion Date: 09/15/2014
Lease Name: GENTRY 01	Purpose Of Filing: Initial Potential
RRC District No.: 02	Well Type: Producing
RRC Gas ID or Oil Lease No.: 267412	County: LIVE OAK
Well No.: 01H	Drilling Permit No: 734957
API No.: 297-35114	Wellbore Profile: HORIZONTAL
	Field No.: 86950600

Refresh Page 1 2 3 4 5 6 Save Edit

Test Data

Date of Test: 09/18/2014 MM/DD/YYYY

Gas Measurement Method:

- Orifice Meter
- Flange Taps
- Positive Choke
- Orifice Vent Meter
- Pipe Taps
- Pitot Tube
- Critical-flow Prover
- Mass Flow Meter
- Other

Gas Produced during Test: 13170 MCF

In gas a "single run" or "one point test" lasts 72 hours and the completion date and test date should be at least 3 days apart.

Page 2 (Completion Data I)



IF INITIAL FILING, USE THE...
SPUD DATE | RIG RELEASE DATE

1 Page 2 3 4 5 6 Save Edit

Data on Well Completion and Log 1

PSA/Allocation Completion Type **Drilling Permit value:**

Number of Producing Wells on this lease in this field (reservoir) including this well: 137

Total number of acres on this lease: 17433.41

Total number of acres on this lease: **Drilling Permit value:** 17433.41

Date Plug Back, Deepening, Recompletion, or Drilling Operations Commenced: 03/27/2019

Off-Lease (Surface Location): **Drilling Permit value:** No

Location of well, relative to nearest lease boundaries of lease on which this well is located: 2685.0 Feet from the East Line and 6906.0 Feet from the North Line of the XBC GIDDINGS ESTATE

Location of well, relative to nearest lease boundaries of lease on which this well is located: **Drilling Permit value:** 6906.0 feet from the NORTH line and 2685.0 feet from the EAST line.

Distance to nearest well in this lease & reservoir: 276.0 feet

Distance to nearest well in this lease & reservoir: **Drilling Permit value:** 272.0 feet

Elevation: 2788 feet

Vertical Depth: 8282 feet

Total Vertical Depth, **Drilling Permit value:** 10715 feet

Plug Back Depth - TVD: feet

Ended: 05/28/2019

Off-Lease

East Line and North Line of the Lease.

Elevation Code: RXB

Measured Depth: 16431 feet

Plug Back Depth - MD: feet

1 Page 2 3 4 5 6 Save Edit

IF LEASE LINES DO NOT MATCH PERMIT EXACTLY, YOU MAY NEED TO ADD REMARKS OR POSSIBLY AMEND PERMIT.

Page 2 (Drilling Operations)



1 Page 2 3 4 5 6 Save Edit

Data on Well Completion and Log I

PSA/Allocation Completion Type **Drilling Permit** value:

Number of Producing Wells on this lease in this field (reservoir) including this well: 132

Total number of acres on this lease: 17433.41

Total number of acres on this lease; **Drilling Permit** value: 17433.41

Date Plug Back, Deepening, Recompletion, or Drilling Operations Commenced: 01/25/2019

Ended: 02/21/2019

Type of casing:	<input type="checkbox"/> Conductor	<input checked="" type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Liner	<input type="checkbox"/> Production
Drilled hole size (in.):	17 1/2	Depth of drilled hole (ft.):	1406	Est. % wash-out or hole enlargement:	Circ to Surface
Size of casing in O.D. (in.):	13 3/8	Casing weight (lbs/ft) and grade:	54.5 J55	No. of centralizers used:	11
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Setting depth shoe (ft.):	1391	Top of liner (ft.):	
Hrs. waiting on cement before drill-out:	12	Calculated top of cement (ft.):	()	Cementing date:	1/26/2019

Type of Casing:	<input type="checkbox"/> Surface	<input checked="" type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered Production	<input checked="" type="checkbox"/> Multi-stage cement shoe	<input type="checkbox"/> Multiple parallel strings	
Drilled hole size (in.):	12 1/4	Depth of drilled hole (ft.):	6641	Est. % wash-out or hole enlargement:	20%		
Size of casing in O.D. (in.):	9 5/8	Casing weight (lbs/ft) and grade:	40 L80	No. of centralizers used:	42		
Tapered string drilled hole size (in.)	Upper: Lower:	Tapered string depth of drilled hole (ft.)	Upper: Lower:	Tapered string no. of centralizers used	Upper: Lower:		
Tapered string size of casing in O.D.(in.)	Upper: Lower:	Tapered string casing weight(lbs/ft) and grade	Upper: Lower:	Setting depth shoe (ft.):	6627		
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Hrs. waiting on cement before drill-out:	12	Calculated top of cement (ft.):	4704	Cementing date:	02/11/2019

Type of Casing:	<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Liner	<input checked="" type="checkbox"/> Production
Drilled hole size (in.):	8 1/2	Depth of drilled hole (ft.):	16431	Est. % wash-out or hole enlargement:	CBL
Size of casing in O.D. (in.):	5 1/2	Casing weight (lbs/ft) and grade:	20 P110	No. of centralizers used:	71
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Setting depth shoe (ft.):	16418	Top of liner (ft.):	
Hrs. waiting on cement before drill-out:	12	Calculated top of cement (ft.):	3520	Cementing date:	02/21/2019



Data on Well Completion and Log II

GAU Groundwater Protection Determination Depth: 425.0

GAU Groundwater Protection Determination Date: 11/06/2018

For new drill or re-entry, surface casing depth determined by:

GAU Groundwater Protection Determination

SWR 13 Exception

Depth: 1500.0

Purpose: New Production Well

Location: Survey-THROCKMORTON CSL; Abstract-542; Section-1; League-1

GAU LETTER

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The base of usable-quality water-bearing strata is estimated to occur at a depth of 425 feet at the site of the referenced well.

SWR13 EXC

d. The casing and cement program shall adhere to the following specifications:

Set 1500 feet of surface casing and circulate cement from the shoe to the ground surface.



SWR 13 Exception Example: Short Surface Casing

Casing Record										
Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	2513			A	1585	3521.0	0
2	Intermediate	12 1/4	9 5/8	5290			A	1130	2445.0	0
3	Conventional Production	8 1/2	5 1/2	15780			H	2475	4227.0	0

The base of usable-quality water is estimated to occur at a depth of 5150 feet. Moreover, the interval from the land surface to a depth of 150 feet and the zone from a depth of 1300 feet to 2400 feet contains water of usable-quality which must be protected. Furthermore, the CARRIZO from 2700 feet to 3750 feet contains superior quality water which must be isolated from water in overlying and underlying beds.

Page 3 (Rotation Time)



1 2 Page 3 4 5 6 Save Edit

Data on Well Completion and Log II

GAU Groundwater Protection Determination Depth: 425.0
GAU Groundwater Protection Determination Date: 11/06/2018

For new drill or re-entry, surface casing depth determined by:

GAU Groundwater Protection Determination
 SWR 13 Exception Depth: 1500.0

Was directional survey made other than Inclination(Form W-12)?: No Yes

Rotation Time Within Surface Casing: 34.25 (Hours)

Is Cementing Affidavit Attached (W-15)?: No Yes

Is Well multiple completion?: No Yes

If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.:

Row	Field & Reservoir	Lease Number	Well Type	Well No.
1				

1 2 Page 3 4 5 6 Save Edit

SHOULD NOT EXCEED 360 HOURS

THIS SECTION IS NOT FOR WORKOVERS OR DOWNHOLE COMMINGLED WELLS



The operator is responsible for ensuring that the slurry volume, cement sacks, and casing information entered on this form matches the information reported on the corresponding Form W-15.

1 2 3 Page 4 5 6 Save Edit

The operator is responsible for ensuring that the slurry volume, cement sacks, and casing information entered on this form matches the information reported on the corresponding Form W-15.

Casing Record

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	1391			C	1298	2210.0	0

Page 4 (Casing, Liner & Tubing)



**ONLY OPTIONAL COLUMN
ON THIS TABLE**

1 2 3 Page 4 5 6 Save Edit

The operator is responsible for ensuring that the slurry volume, cement sacks, and casing information entered on this form matches the information reported on the corresponding Form W-15.

Casing Record

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement	Top of Cement Determined By
1	Surface	17 1/2	13 3/8	1391			C	1298	2210.0	0	Calculation
2	Intermediate	12 1/4	9 5/8	6627	4704		C & LITE	1210	3024.0	1090	Calculation
3	Intermediate	12 1/4	9 5/8	6627		6627	C & LITE	585	1149.0	4704	Calculation
4	Conventional Production	8 1/2	5 1/2	16418			H	1640	3379.0	3520	Cement Evaluation Log

RRC GAU recommended base of usable quality groundwater (BUQW): 425.0 feet

Was cement circulated to ground surface (or bottom of cellar) outside SURFACE CASINGS? No Yes

Remarks:

GAU LETTER DEPTH

Liner Record

Row	Liner Size (inches & fractions)	Hole Size (inches & fractions)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement	Top of Cement Determined By	Washout Factor	Calculated TOC
1										20.0	0.0

Tubing Record

Row	Tubing Size (inches & fractions)	Depth Set (ft.)	Packer Depth (ft.)	Packer Type
1	2 7/8	7785		

Does this well currently have tubing set? No Yes

If NO, Explain in Remarks.

Remarks:

SWR 13 Exception for Tubing Record? (Attach approval)

PER SWR-13(b)(5)(a), ALL FLOWING WELLS MUST HAVE TUBING SET UNLESS GRANTED BY FIELD RULES. IF ANSWERED 'NO', PROVIDE EXPLANATION; ALLOWABLE MAY BE WITHHELD.

1 2 3 Page 4 5 6 Save Edit

Page 4 (Surface Casing)



1 2 3 Page 4 5 6 Save Edit

The operator is responsible for ensuring that the slurry volume, cement sacks, and casing information entered on this form matches the information reported on the corresponding Form W-15.

Casing Record

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	1391			C	1298	2210.0	0



CEMENT CIRC TO SURF



13-3/8 @ 1391

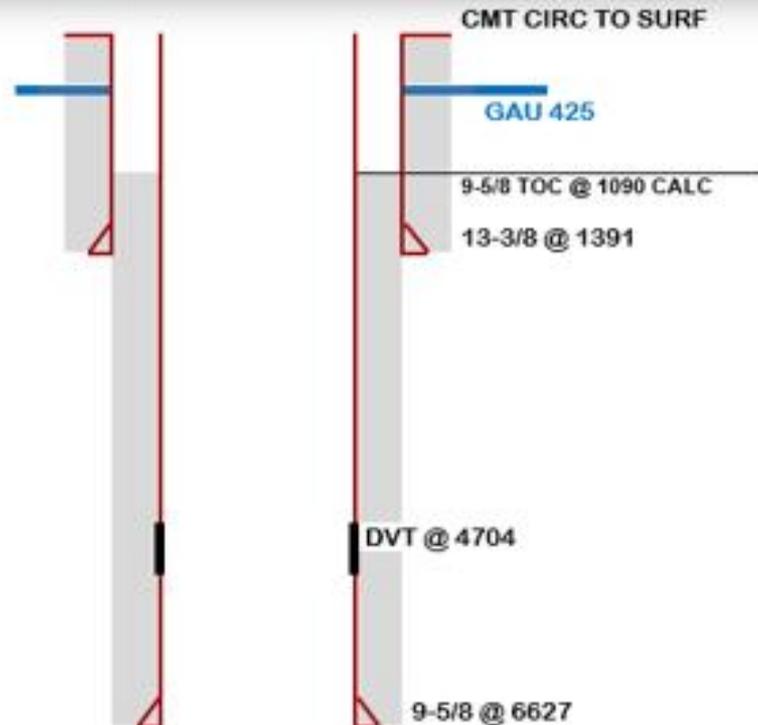
Page 4 (Intermediate Casing)



1 2 3 Page 4 5 6 Save Edit

The operator is responsible for ensuring that the slurry volume, cement sacks, and casing information entered on this form matches the information reported on the corresponding Form W-15.

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	1391			C	1298	2210.0	0
2	Intermediate	12 1/4	9 5/8	6627	4704		C & LITE	1210	3024.0	1090
3	Intermediate	12 1/4	9 5/8	6627		6627	C & LITE	585	1149.0	4704



Page 4 (Production Casing)

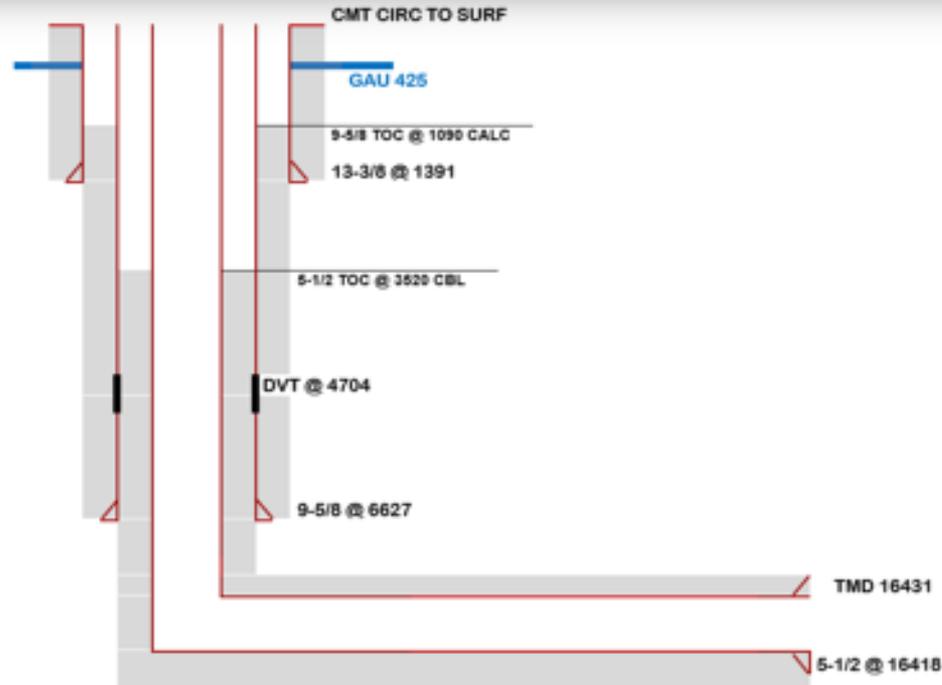


1 2 3 Page 4 5 6 Save Edit

The operator is responsible for ensuring that the slurry volume, cement sacks, and casing information entered on this form matches the information reported on the corresponding Form W-15.

Casing Record

Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	1391			C	1298	2210.0	0
2	Intermediate	12 1/4	9 5/8	6627	4704		C & LITE	1210	3024.0	1090
3	Intermediate	12 1/4	9 5/8	6627		6627	C & LITE	585	1149.0	4704
4	Conventional Production	8 1/2	5 1/2	16418			H	1640	3379.0	3520



Page 4 (Tubing)



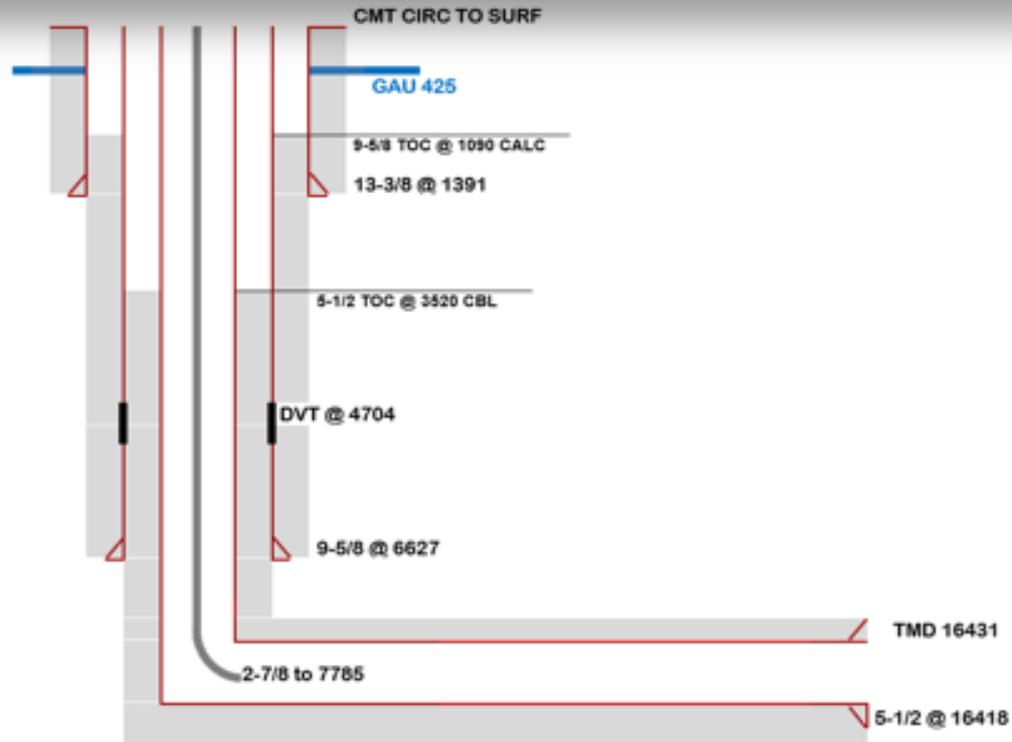
Row	Tubing Size (inches & fractions)	Depth Set (ft.)	Packer Depth (ft.)	Packer Type
1	2 7/8	7785		

Does this well currently have tubing set?: No Yes

If NO, Explain in Remarks.

Remarks:

SWR 13 Exception for Tubing Record? (Attach approval)





Crossover depth in Casing Record is **preferred**.

Casing Record										
Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	13 1/2	10 3/4	4915			C	1665	2951.0	1309
2	Other	13 1/2	10 3/4	4915	1309		C	860	1539.0	0
3	Intermediate	9 7/8	7 5/8	11329			H	1720	3726.0	3915
4	Conventional Production	6 3/4	5 1/2	11297			H	830	988.0	9505
5	Tapered Production	6 3/4	4 1/2	15764			H	830	988.0	9505

RRC GAU recommended base of usable quality groundwater (BUQW): 1200.0 feet

Was cement circulated to ground surface (or bottom of cellar) outside SURFACE CASING?: No Yes

Remarks: Remarks not required..



Crossover depth shown in Remarks.

Casing Record										
Row	Type of Casing	Hole Size (Inches & fractions)	Casing Size - O.D. (Inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	13 1/2	10 3/4	5175			35:65 C	1825	3249.0	1277
2	Other	13 1/2	10 3/4	5175	1277		C	1000	1790.0	0
3	Intermediate	9 7/8	7 5/8	12186			50:50:10H+	1740	3657.0	4170
4	Tapered Production	6 3/4	5 1/2	16645			H	790	940.0	10419
5	Tapered Production	6 3/4	4 1/2	16645			H	790	940.0	10419

FRC GAU recommended base of usable quality groundwater (BUQW): 1100.0 feet

Was cement circulated to ground surface (or bottom of cellar) outside SURFACE CASING?: No Yes

Remarks: THE 4 1/2 AND 5 1/2 PRODUCTION CASING IS A TAPERED STRING AND BOTH STRINGS SHARE THE SAME W-15 CEMENT JOB. (ATTACHED) CROSSOVER DEPTH FOR 5 1/2 X 4 1/2 IS AT 12117'

Same setting depth w/ different csg sizes.

Crossover depth shown in Remarks.



If hole size is tapered, option to show on one line showing largest hole size.

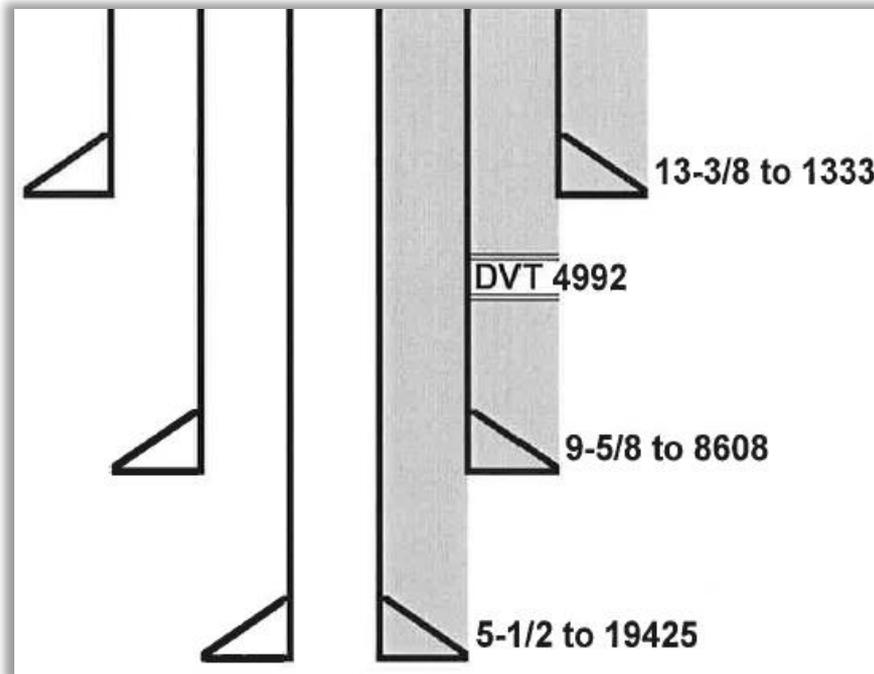
- Tapered Hole size not offered on drop down.
- W-15 must reflect two different hole sizes.
- Remarks should show depth hole size tapered.

Page 4 (Multi-Stage Example 1)



Order of Casing is **preferred**.

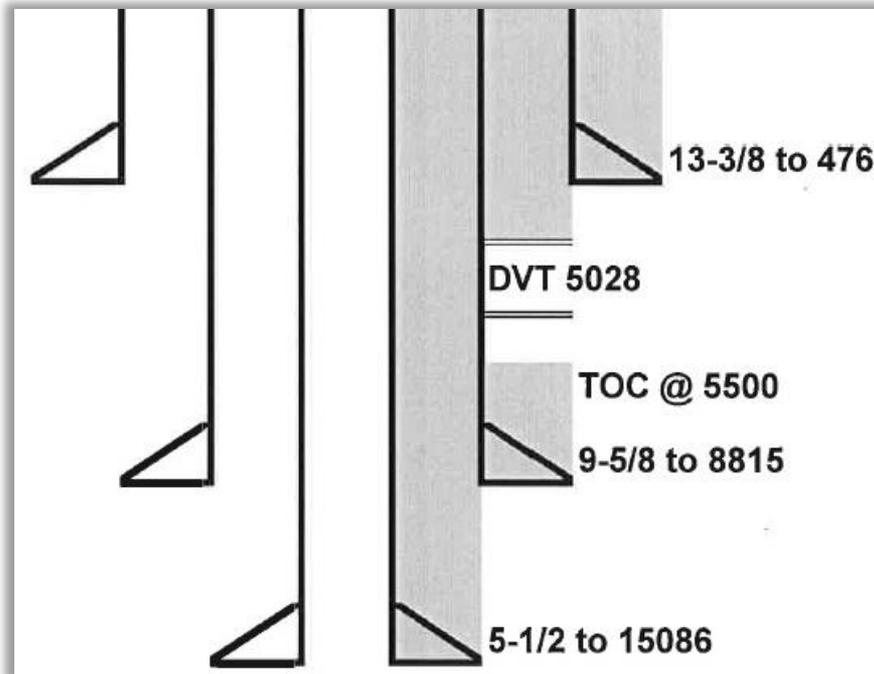
Casing Record										
Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	1333			C	1246	2303.0	0
2	Intermediate	12 1/4	9 5/8	8608	4992		TXI & C	1242	3074.7	0
3	Intermediate	12 1/4	9 5/8	8608			TXI & C	856	2053.7	4992
4	Conventional Production	8 1/2	5 1/2	19425			H	2575	3965.5	450





Order of Cementing

Casing Record										
Row	Type of Casing	Hole Size (inches & fractions)	Casing Size - O.D. (inches & fractions)	Setting Depth (ft.)	Multi-Stage Tool Depth (ft.)	Multi-Stage Shoe Depth (ft.)	Cement Class	Cement Amount(sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	Surface	17 1/2	13 3/8	476			C	450	594.0	0
2	Intermediate	12 1/4	9 5/8	8815			TXI	765	1783.8	5500
3	Intermediate	12 1/4	9 5/8	8815	5028		C	1129	2671.6	0
4	Conventional Production	8 1/2	5 1/2	15086			TXI H	2111	4136.9	0





If DVT did not open, include Tool depth in Casing Record:

- Combine cement sacks, including if perforated & squeezed, into **one line only**.
- Add Remark “DVT did not open”.
- Important to show depth of DVT as it might affect future plugging procedure; 100’ plug will have to be placed across tool.



Liner with Cement:

- W-15 will be attached to completion.

Liner Record

Row	Liner Size (inches & fractions)	Hole Size (inches & fractions)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	7	8 3/4	10492	10504	H	310	420.67	7832

Liner without Cement:

- Will **not** have W-15 attached to completion.

Liner Record

Row	Liner Size (inches & fractions)	Hole Size (inches & fractions)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement
1	3 1/2	6 1/8	3106	7216	N/A- NO CEMENT PUMPED			



1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole

Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole
1	8761	16383	Horizontal	Lateral 1	<input type="checkbox"/>

Remarks:

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	8761.0	16383.0	SEE FRAC FOCUS	Fracture

Remarks:

FORMATION RECORD (List depths of Principal Geological Markers and Formation Tops, including, but not limited to, all permitted Disposal/Injection formations within 1/4 mile of the wellbore, Productive Zones, Potential Flow Zones, and Corrosive Formation Fluid Zones.)

Row	Principle Markers and Formation Tops	Encountered	Depth -TVD (feet)	Depth - MD (feet)	Isolated	Remarks
1	YATES	<input checked="" type="checkbox"/>	2503.8	2525.0	<input checked="" type="checkbox"/>	
2	GRAYBURG	<input checked="" type="checkbox"/>	4294.9	4359.1	<input checked="" type="checkbox"/>	
3	SAN ANDRES - SALTWATER FLOW	<input checked="" type="checkbox"/>	4524.2	4593.2	<input checked="" type="checkbox"/>	
4	SPRABERRY	<input checked="" type="checkbox"/>	7382.4	7471.2	<input checked="" type="checkbox"/>	
5	WOLFCAMP	<input type="checkbox"/>			<input type="checkbox"/>	WELL IS NOT DEEP ENOUGH
6	STRAWN	<input type="checkbox"/>			<input type="checkbox"/>	WELL IS NOT DEEP ENOUGH
7	DEVONIAN	<input type="checkbox"/>			<input type="checkbox"/>	WELL IS NOT DEEP ENOUGH
8	FUSSELMAN	<input type="checkbox"/>			<input type="checkbox"/>	WELL IS NOT DEEP ENOUGH
9	ELLENBURGER	<input type="checkbox"/>			<input type="checkbox"/>	WELL IS NOT DEEP ENOUGH

Data on Well Completion and Log I

Remarks: KOP ~ 7765', DIGITAL WELL LOG # 18323 SUBMITTED ON 6.25.19. M-2 WRD TRACKING # 216455 SUBMITTED ON 7.23.19.



OPTION 1

1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole
 Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole	
1	7354	10056	Directional ▼	-Select One- ▼	<input type="checkbox"/>	Clear
2			-Select One- ▼	-Select One- ▼	<input type="checkbox"/>	Clear
3			-Select One- ▼	-Select One- ▼	<input type="checkbox"/>	Clear

Add Row

Remarks:

List all perforations that are currently open. If the well is open hole select open hole, if the well is horizontal or directional then use the appropriate lateral label.

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process	
1	7354.0	7568.0	72,000 GAL SLICK WATER, 42,500 GAL 10# X-LINK GEL, WITH 108,875# 20/40 WHITE SAN	Fracture ▼	Clear
2	7594.0	7813.0	72,000 GAL SLICK WATER, 42,500 GAL 10# X-LINK GEL, WITH 108,875# 20/40 WHITE SAN	Fracture ▼	Clear
3	7860.0	8192.0	83,000 GAL SLICK WATER, 48,000 GAL 10# X-LINK GEL, WITH 123,500# 20/40 WHITE SAN	Fracture ▼	Clear
4	8233.0	8465.0	122,500 GAL USING 10# X-LINK & 76,750# 20/40 WHITE & 15,000# SLC SAND	Fracture ▼	Clear
5	8489.0	8792.0	75,500 GAL USING 10# X-LINK & 72,500# 20/40 SLC SAND	Fracture ▼	Clear
6	8838.0	9108.0	119,500 GAL USING 10# X-LINK & 59,063# 20/40 SLC SAND	Fracture ▼	Clear
7	9505.0	9567.0	58,000 GALS.10# X-LINK GEL WITH 22,375# SLC 20/40 SAND	Fracture ▼	Clear
8	9599.0	9783.0	43,000 GALS.10# X-LINK GEL WITH 16,500# SLC SAND	Fracture ▼	Clear
9	9812.0	10056.0	43,000 GALS.10# X-LINK GEL WITH 16,500# SLC SAND	Fracture ▼	Clear

Add Row

Remarks:

List any acidizing, fracturing, cement squeezes or CIBP's here with the affected depths. It is very important to list the old perforations and how they were isolated here if recompleting a well to prevent a SWR-10 violation.



OPTION 2

1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole

Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole
1	9950	14990	Horizontal	Lateral 1	<input type="checkbox"/>

Remarks: KICK OFF POINT 8880'

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	9950.0	14990.0	SEE FRAC FOCUS	Fracture

Remarks:

- SEE FRAC FOCUS...acceptable option
- KOP in Remarks
- Producing and Fractured intervals are the same.



OPTION 3

1 2 3 4 Page 5 6 Save Edit

Producing/Injection/Disposal Interval (this completion) Indicate depth of perforation on open hole

Note: From and To are for Measured Depth for Horizontals.

Row	From (feet)	To (feet)	Bottom Hole Label	Lateral Label	Open Hole
1	9351	19520	Horizontal	Lateral 1	<input type="checkbox"/>

Remarks:

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.

Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	9351.0	19520.0	STIMULATED USING 4,857 BBLS OF 15% HCL ACID, 14,581,690 LBS OF TOTAL PROPPANT IN 369,675 BBLS OF TOTAL FLUID.	Fracture

Remarks:

- Summarize Frac Stimulants
- Add any helpful Remarks



* When to mark "encountered" in the formation record section?

The "encountered" checkbox must be marked if the formation/zone was penetrated by this wellbore.

If "encountered" is marked, the operator must enter a depth.

If the formation/zone was penetrated but not logged, the operator is expected to give a reasonable estimate based on existing available information. Please specify in remarks if the depth is an estimate.

If "encountered" is not marked, the operator must explain in remarks as to why the formation/zone was not encountered (e.g. pinched-out, well is not deep enough, etc.).

* When to mark "isolated" in the formation record section?

"Isolated" means that the formation/zone has been isolated by cemented casing pursuant to Statewide Rule 13(a)(4)(C), (b)(2)(A), and (b)(3)(B).

If the formation/zone was encountered by the wellbore, the operator must indicate whether that formation/zone was isolated by cemented casing pursuant to these requirements of Statewide Rule 13.

If the formation/zone is part of the completion interval, and is adequately confined by cemented casing, do mark isolated.

If the formation/zone was not encountered, the "isolated" checkbox will not be applicable.

If the formation/zone was encountered but is not isolated by cemented casing, do not mark isolated. In this case, the operator must explain in remarks as to why the formation/zone was not isolated.



When to mark to “encountered” in the formation record section?

- The “encountered” checkbox must be marked if the formation/zone was penetrated by this wellbore.
- If “encountered” is marked, the operator must enter a depth.
 - Approach staff geologist for assistance with depths.



- If the formation/zone was penetrated but not logged, the operator is expected to give a **reasonable estimate** based on existing available information. Please specify in remarks if the depth is an estimate.
 - Explanations such as “not logged, null, N/A or cement squeeze” are not valid explanations of why not logged.



- If “encountered” is not marked, the operator must explain in remarks as to why the formation/zone was not encountered (e.g. pinched-out, well is not deep enough, etc.).
 - Also a good explanations
 - Does not exist in the immediate area
 - Not geologically present
 - Remark can be listed below productive formation
 - Below TD
 - Well not drilled deep enough vertically.



- When to mark “isolated” in the formation record section?
 - “Isolated” means that the formation/zone has been isolated by cemented casing pursuant to Statewide Rule 13(a)(4)(c), (b)(2)(A), and (b)(3)(B):
 - 600’ Calculation or 200’ inside next casing string
 - 250’ Temperature Survey
 - 100’ Cement Bond Log



- If the formation/zone was encountered by the wellbore, the operator must indicate whether that formation/zone was isolated by cemented casing pursuant to these requirements of Statewide Rule 13.



- If the formation/zone is part of the completion interval, and is adequately confined by cemented casing, **do mark isolated**.
 - Yes, mark “isolated” zone perforated!

- If the formation/zone was not encountered, the “isolated” checkbox will not be applicable.
 - Zone may be below TD.



- If the formation/zone was encountered but is not isolated by cemented casing, do not mark isolated. In this case, the operator must explain in remarks as to why the formation/zone was not isolated.
 - If formation is present but not productive in the immediate area [within quarter-mile radius of wellbore], add a Remark.

Page 6 (Hydraulic Fracturing)



1 2 3 4 5 Page 6 Edit Certify

Hydraulic Fracturing

Pursuant to Statewide Rule 29 and Natural Resources Code Section 91.851, certain information regarding chemicals used in hydraulic fracturing treatments must be reported to a centralized national database known as FracFocus (<http://www.fracfocus.org>). The required information must be uploaded to the FracFocus registry not later than 15 days after the final stage of the hydraulic fracturing treatment is completed.

If you have performed a hydraulic fracturing treatment but have not yet reported it to the FracFocus registry, you may proceed with filing your completion reports but an allowable may not be assigned for your well until the required information has been reported. This may also result in denial of any P-8 requests to move oil prior to processing of your completion reports.

Information on how to submit your report to FracFocus (including a link to an instructional webinar) may be found on the FracFocus website at <http://www.fracfocus.org>. For more information, please see Statewide Rule 29.

Was Hydraulic Fracturing treatment performed?: No Yes

Has the Hydraulic Fracturing Fluid Disclosure been reported to FracFocus Disclosure Registry (SWR 29)?: No Yes

Is well equipped with a downhole actuation sleeve? (if yes, provide actuation pressure (PSIG)): No Yes

Actuation Pressure (PSIG):

Production casing test performance (PSIG) prior to hydraulic fracturing treatment: 9500

Actual maximum pressure (PSIG) during hydraulic fracturing: 9018

If 'Yes',
reported to
Frac Focus.



Is well equipped with a downhole actuation sleeve?

If **yes**, production casing test pressure has to be $\geq 80\%$ of the actuation pressure.

Was Hydraulic Fracturing treatment performed?: No Yes

Has the Hydraulic Fracturing Fluid Disclosure been reported to FracFocus Disclosure Registry (SWR 29)?: No Yes

Is well equipped with a downhole actuation sleeve? (if yes, provide actuation pressure (PSIG)): No Yes

Actuation Pressure (PSIG): 7780.0

Production casing test performance (PSIG) prior to hydraulic fracturing treatment: 6540

Actual maximum pressure (PSIG) during hydraulic fracturing: 7958

84%



Is well equipped with a downhole actuation sleeve?

If **no** downhole actuation sleeve, Actual Maximum Pressure should be less than or equal to Production Casing Test Performance.

Was Hydraulic Fracturing treatment performed?: No Yes

Has the Hydraulic Fracturing Fluid Disclosure been reported to FracFocus Disclosure Registry (SWR 29)?: No Yes

Is well equipped with a downhole actuation sleeve? (if yes, provide actuation pressure (PSIG)):

No Yes

Actuation Pressure (PSIG):

Production casing test performance (PSIG) prior to hydraulic fracturing treatment: 9500

$$7065 \leq 9500$$

Actual maximum pressure (PSIG) during hydraulic fracturing: 7065

Page 6 (Certification)



Do the producing intervals of this well produce H₂S with a concentration in excess of 100 ppm? (SWR 36): No Yes

Is this completion being down-holed commingled (SWR 10)?: No Yes

Is this lease part of a pooled unit?: No Yes

*** If the approval SWR 10 is pending, place a remark on page 5 indicating the submitted date of the SWR 10 application.**

OPERATOR'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

I Accept: No Yes

1 2 3 4 5 Page 6 Edit Certify



Complete Additional Forms

- (Crrpl_1242) The Packet agrees with the Drilling Permit (Total Depth, Density, and Field).
- (Crrpl_1260) Page 2 - Warning: Proration, number of producing wells is different than the value on the Drilling Permit.
- (Crrpl_1485) Internal: Directional survey was made was set to yes.
- (Crrpl_1587) This Completion is down-holed commingled, attach a copy of SWR 10 approval letter to this completion.
- (Crrpl_1269) Page 3, GAU Groundwater Protection Determination letter will need to be attached to this Packet.
- (Crrpl_1191) The current page has been saved.

Note any black warnings . You might need to attach further documentation or add remarks to the W-2.

Packet Data | **W-2** | Complete Additional Forms | Load Attachments | Messages | Submit

Add Additional Forms

Packet Summary Data		Submitted: Online	
Tracking No.: 230574		Status: Work in Progress ←	
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well		
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date: 12/14/2012		
Lease Name: HARDY 10	Purpose Of Filing: Initial Potential		
RRC District No.: 08	Well Type: Producing		
RRC Gas ID or Oil Lease No.: 41707	County: GLASSCOCK		
Well No.: B	Drilling Permit No: 745925		
API No.: 173-35230	Wellbore Profile: DIRECTIONAL		
Field No.: 05280300			

Some required forms may be optional based on previous filings for this wellbore.

Additional Forms			
Work in Progress	Required	Completion Packet data	
Certified	Required	W-2 Oil Well Potential Test, Completion or Recompletion Report, and Log	Print
None Created	Optional	L-1 Electric Log Status Report	Print
None Created	Optional	P-4 Certificate of Compliance and Transportation Authority	Print
None Created	Optional	P-13 Statement of Productivity of Acreage	Print
None Created	Optional	W-12 Inclination Report	

Attachments			
None Attached	Required	W-15 Cementing Report	
None Attached	Required	L-1 Electric Log Header	
None Attached	Required	Groundwater Advisory Unit Letter	
None Attached	Optional	P-12 Certificate of Pooling Authority	
None Attached	Optional	Flap/Survey	
None Attached	Optional	W-4 Application for Multiple Completion	
None Attached	Optional	W-4A Sketch of Multiple Completion	
None Attached	Optional	W-5 Packer Setting Report	
None Attached	Optional	W-6 Communication/Packer Leakage Test	
None Attached	Optional	W-7 Bottom-hole Pressure Report	
None Attached	Optional	W-12 Record of Inclination	
None Attached	Optional	Circular Graph	
None Attached	Optional	Wellbore Schematic	
None Attached	Optional	Proration Acreage List	
None Attached	Optional	SWR 5 Letter	
None Attached	Optional	SWR 13 Letter	
None Attached	Optional	Hardcopy Form	
None Attached	Optional	Sharing Agreement	
None Attached	Optional	SWR 10 Letter	
None Attached	Optional	W-9 Hydrogen Sulfide Compliance (SWR 36)	
None Attached	Optional	Any other miscellaneous attachment	

[Print All Forms](#)

L-1 (Electric Log Status Report)



Packet Data | W-2 | Complete Additional Forms | Load Attachments | Messages | Submit

L-1 Electric Log Status Report

Packet Summary Data	Submitted: Online
Tracking No.: 230574	Status: Work in Progress
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date: 12/14/2012
Lease Name: HARDY 10	Purpose Of Filing: Initial Potential
RRC District No.: 08	Well Type: Producing
RRC Gas ID or Oil Lease No.: 41707	County: GLASSCOCK
Well No.: 0	Drilling Permit No: 745925
API No.: 173-35230	Wellbore Profile: DIRECTIONAL
Field No.: 05200300	

Refresh Edit Certify

Authorization

- Basic Electric Log Not Run
- Basic Electric Log Run
- Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- Log attached to (select one)
 - (a) Form L-1 (this form). If the company lease name on log is different from that shown in the Packet Summary
- Check here if attached log is being submitted after being held confidential
- (b) Form P-7, Application for Discovery Allowable and New Field Designation.
- (c) Form W-4, Application for Multiple Completion: lease or ID no.(s)
Lease or ID No.(s):
Well No.(s):

Refresh Edit Certify

Certification

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

I Accept? No Yes

Refresh Edit Certify

If "Confidentiality" is selected you will need to attach a log header. If "Log attached" is selected please mail the physical log to Austin as soon as possible.

P-4 (Cert. of Compliance & Trans. Authority)



[Packet Data](#) | [W-2](#) | [Complete Additional Forms](#) | [Load Attachments](#) | [Messages](#) | [Submit](#)

P-4 Certificate of Compliance and Transportation Authority

Packet Summary Data

Tracking No.: 230574
 Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)
 Field Name: SPRABERRY (TREND AREA)
 Lease Name: HARDY 18
 RRC District No.: 08
 RRC Gas ID or Oil Lease No.: 41707
 Well No.: 8
 API No.: 173-35230
 Field No.: 85280300

Submitted: Online

Status: Work in Progress
 Type Of Completion: New Well
 Completion or Recompletion Date: 12/14/2012
 Purpose Of Filing: Initial Potential
 Well Type: Producing
 County: GLASSCOCK
 Drilling Permit No: 745925
 Wellbore Profile: DIRECTIONAL

Step 1 - Packet Data

Step 2 - W-2 Data

Step 3 - Complete Additional Forms

Step 4 - Load Attachments

Step 5 - Submit

* Only initial new lease P-4's may be filed online. All other P-4 changes must be filed via hardcopy at this time.

Well Information

Is this well temporarily abandoned/shut-in?: No Yes

Is this an un-perforated well (not completed)?: No Yes

Is this a service well?: No Yes

Authorized GAS WELL or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s)

Row	Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s)	Purchaser's RRC Assigned System Code	Percent of Take	Full-well Stream	Number of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s)	Product Code
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="Search"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text" value="Clear"/>	
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="Search"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text" value="Clear"/>	
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="Search"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text" value="Clear"/>	

Authorized OIL or CONDENSATE Gatherer(s)

Row	Name of OIL or CONDENSATE Gatherer(s)	Percent of Take	Operator Number	Product Code
1	<input type="text" value="Search"/>	<input type="text"/>	<input type="text" value="Clear"/>	
2	<input type="text" value="Search"/>	<input type="text"/>	<input type="text" value="Clear"/>	
3	<input type="text" value="Search"/>	<input type="text"/>	<input type="text" value="Clear"/>	

Required

P-4 (Searching for Gatherer's & Purchasers)



Select Operator

Filing operator: RAILROAD COMMISSION DISTRICT 08 (000010)

Search by Operator Number

Operator No.:

Search by Operator Name

Beginning with these characters
 Containing these characters
 Matching these characters exactly

Operator Name: atlas p

Search Results

ATLAS POWER EQUIPMENT, LLC(036568)
ATLAS POWER INC.(036575)
ATLAS POWER INC & REISS PET. INC(036577)
ATLAS PETRO LTD. L.C.(036579)
ATLAS PROCESSING COMPANY(036580)
ATLAS PIPELINE MID-CONTINENT LLC(036584)
ATLAS PL MID-CONT. WESTTEX, LLC(036586)

Certifying & Saving the P-4



Packet Data | W-2 | **Complete Additional Forms** | Load Attachments | Messages | Submit

P-4 Certificate of Compliance and Transportation Authority

Packet Summary Data

Tracking No.: 230574
 Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)
 Field Name: SPRABERRY (TREND AREA)
 Lease Name: HARDY 18
 RRC District No.: 08
 RRC Gas ID or Oil Lease No.: 41707
 Well No.: 8
 API No.: 173-35230
 Field No.: 85280300

Submitted: Online

Status: Work in Progress
 Type Of Completion: New Well
 Completion or Recompletion Date: 12/14/2012
 Purpose Of Filing: Initial Potential
 Well Type: Producing
 County: GLASSCOCK
 Drilling Permit No: 745925
 Wellbore Profile: DIRECTIONAL

Well Information

Is this well temporarily abandoned/shut-in?: No Yes
 Is this an un-perforated well (not completed)?: No Yes
 Is this a service well?: No Yes

Authorized GAS WELL or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s)

Row	Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s)	Purchaser's RRC Assigned System Code	Percent of Take	Full-well Stream	Number of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s)	Product Code
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATLAS PL MID-CONT. WESTTEX, LLC(036586) <input type="button" value="Search"/>	0001 <input type="button" value="Search"/>	100.0	<input type="checkbox"/>	<input type="button" value="Clear"/>	
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Search"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="button" value="Clear"/>	
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Search"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="button" value="Clear"/>	

Authorized OIL or CONDENSATE Gatherer(s)

Row	Name of OIL or CONDENSATE Gatherer(s)	Percent of Take	Operator Number	Product Code
1	PLAINS MARKETING, L.P.(667883) <input type="button" value="Search"/>	100.0	<input type="button" value="Clear"/>	
2	<input type="button" value="Search"/>	<input type="text"/>	<input type="button" value="Clear"/>	
3	<input type="button" value="Search"/>	<input type="text"/>	<input type="button" value="Clear"/>	

Percent of take must equal 100% on a producing oil well

Percent of take must equal 100% on a producing oil well

P-4 (Certification Page)



Packet Data | W-2 | Complete Additional Forms | Load Attachments | Messages | Submit

P-4 Certificate of Compliance and Transportation Authority

Packet Summary Data	Submitted: Online
Tracking No.: 230574	Status: Work in Progress
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date: 12/14/2012
Lease Name: HARDY 18	Purpose Of Filing: Initial Potential
RRC District No.: 08	Well Type: Producing
RRC Gas ID or Oil Lease No.: 41707	County: GLASSCOCK
Well No.: 8	Drilling Permit No: 745925
API No.: 173-35230	Wellbore Profile: DIRECTIONAL
Field No.: 85280300	

CURRENT OPERATOR CERTIFICATION

By signing/agreeing to this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

I Accept: No Yes

Authorized Employee of current operator: No Yes

Authorized Agent of current operator: No Yes

Required

P-15 (Statement of Productivity of Acreage)



Packet Data | W-2 | Complete Additional Forms | Load Attachments | Messages | Submit

P-15 Statement of Productivity of Acreage Assigned to Proration Units

Packet Summary Data	Submitted: Online
Tracking No.: 230574	Status: Work in Progress
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date: 12/14/2012
Lease Name: HARDY 18	Purpose Of Filing: Initial Potential
RRC District No.: 08	Well Type: Producing
RRC Gas ID or Oil Lease No.: 41707	County: GLASSCOCK
Well No.: 8	Drilling Permit No: 745925
API No.: 173-35230	Wellbore Profile: DIRECTIONAL
Field No.: 85280300	

Refresh Edit Certify

Step 1 - Packet Data
Step 2 - W-2 Data
Step 3 - Complete Additional Forms
Step 4 - Load Attachments
Step 5 - Submit

This form may be required by field rules. It designates a specific amount of acreage to a particular well.

Authorization

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the **RAILROAD COMMISSION DISTRICT 08 (000010)** operator, **HARDY 18** Lease, **Well No. 8** ; that such well is completed in the **SPRABERRY (TREND AREA)** Field, **GLASSCOCK** County, Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces

acres which can reasonably be considered to be productive of hydrocarbons.

I Accept: No Yes

Certification

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

I Accept: No Yes

Refresh Edit Certify

Online Fillable W-12 (Inclination Report)



Packet Data | W-2 | Complete Additional Forms | Load Attachments | Messages | Submit

W-12 Inclination Report

Packet Summary Data Tracking No.: 230574 Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010) Field Name: SPRABERRY (TREND AREA) Lease Name: HARDY 18 RRC District No.: 08 RRC Gas ID or Oil Lease No.: 41707 Well No.: 8 API No.: 173-35230 Field No.: 85280300	Submitted: Online Status: Work in Progress Type Of Completion: New Well Completion or Recompletion Date: 12/14/2012 Purpose Of Filing: Initial Potential Well Type: Producing County: GLASSCOCK Drilling Permit No: 745925 Wellbore Profile: DIRECTIONAL
---	---

Step 1 - Packet Data
Step 2 - W-2 Data
Step 3 - Complete Additional Forms
Step 4 - Load Attachments
Step 5 - Submit

Refresh Edit Certify

Well Information

Accumulative total displacement of well bore at total depth of : 10385.9 feet =: 403.82 feet
Distance from surface location of well to the nearest lease line: 1513.0 feet
Was the subject well at any time intentionally deviated from the vertical in any manner? : No Yes
PERMITTED AS DIRECTIONAL
If Yes :

Question # 18 on attached W-12

Question # 21 on attached W-12

Shot Point Information

Is the first shot point depth 500 feet or less?: No Yes
Are succeeding shot points 1000 feet or less apart?: No Yes
Was last shot point within 1000 feet of the total depth of the well?: No Yes
Remarks:

Verify shot points on the attached W-12.

Certification

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this Certification, that I have personal knowledge of all information presented in this report, and that all data presented on this form are true, correct, and complete to the best of my knowledge.
I Accept?: No Yes

Refresh Edit Certify

* A W-12 Inclination Report will still need to be attached to this completion for signatures and the inclination data.
* A Directional Survey will need to be attached if there was deviation from the vertical.
* A Directional Survey will need to be attached if the accumulative total displacement exceeds the distance to the nearest lease.

Load Attachments



(Cmpl_1588) The Approval Letter (SWR 10) will need to be attached to this packet.

Packet Data | W-2 | Complete Additional Forms | **Load Attachments** | Messages | Submit

Attachments

Packet Summary Data	Submitted: Online
Tracking No.: 230574	Status: Work in Progress
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date: 12/14/2012
Lease Name: HARDY 18	Purpose Of Filing: Initial Potential
RRC District No.: 08	Well Type: Producing
RRC Gas ID or Oil Lease No.: 41707	County: GLASSCOCK
Well No.: 8	Drilling Permit No: 745925
API No.: 173-35230	Wellbore Profile: DIRECTIONAL
Field No.: 85280300	

- Step 1 - Packet Data
- Step 2 - W-2 Data
- Step 3 - Complete Additional Forms
- Step 4 - Load Attachments**
- Step 5 - Submit

* The current limit on files being uploaded is 6MB.

Upload Attachment

Attachment Type: **-Select One-**

File: No file chosen

Current Attachments

-Select One-

Circular Graph

GAU LETTER

Required Attachments

H-9 Hydrogen Sulfide (SWR 96)

Hardcopy Form

Certified Directional Survey Attachment

W-15, L-1 Header, GAU LET

L-1 Header

Other

P-12

Plat

Directional Survey - Gyro

Prozation Acreage List

Directional Survey - Certificate

SWR 10 Letter

SWR 13 Letter

SWR 8 Letter

Sharing Agreement

N-12

N-15

N-4

N-4A

N-5

N-6

Name	From	To	Label	Start Date	End Date
#8-WL 12700-Portfolio.pdf	100	3300		09/15/2012	09/15/2012
#8 - WL 12700 - RRC CERT FORM- ELine.pdf	100	3300		09/15/2012	09/15/2012

[Disclaimer](#) | [RRC Online Home](#) | [RRC Home](#) | [Contact](#)

Make sure you select the correct attachment type. Plats should only be attached as .tif files all others can be attached as .tif or .pdf. The size limit for any attachment is 6mb.

GAU Letter (Date Issued)



GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued:

24 January 2017

GAU Number:

166089

Attention:

TRACKER RESOURCE DEV III,
1050 17TH STREET SUITE
DENVER, CO 80265

API Number:

23536167

County:

IRION

Lease Name:

BARNHART 77S75

Lease Number:

Well Number:

3LM

Total Vertical Depth:

7500

Latitude:

31.242421

Longitude:

-101.159951

Datum:

NAD27

Operator No.:

864047

GAU Letter (Applicable Radius)



Operator No.: 864047

Lease Number:

Well Number: 3LM

Total Vertical Depth: 7500

Latitude: 31.242421

Longitude: -101.159951

Datum: NAD27

Purpose: New Drill

Location: Survey-H&TC RR CO; Abstract-393; Block-14; Section-77

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to the base of the Santa Rosa, which is estimated to occur at a depth of 700 feet, must be protected.

This recommendation is applicable to all wells within a radius of 300 feet of this location.

GAU Letter (Subject Well Only)



To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to the base of the Santa Rosa, which is estimated to occur at a depth of 700 feet, must be protected.

This recommendation is applicable to all wells within a radius of 300 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 01/18/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
Rev. 02/2014

L-1 Header



BAKER HUGHES		COMPENSATED Z-DENSILOGSM COMPENSATED NEUTRON LOG DIGITAL SPECTRALOGSM GAMMA RAY LOG	
Baker Atlas			
FILE NO: M09939	COMPANY APACHE CORPORATION		
API NO: 42-173-35230	WELL HARDY 18 #8		
	FIELD SPRABERRY (TREND AREA)		
	COUNTY GLASSCOCK	STATE TEXAS	
Ver. 3.87 VAL	LOCATION: 1513' FNL & 1787' FWL SECTION 18, BLOCK 33 T4S SURVEY: T&P RR CD A-707	OTHER SERVICES DLL DAL	
PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL _____ ELEVATION 2617 FT KB _____ 17 FT ABOVE P.D. KB _____ GL _____	ELEVATIONS: KB 2634 FT DF 2633 FT GL 2617 FT	
DATE	22-SEP-2012		
RUN	TRIP	1	1
SERVICE ORDER	623072		
DEPTH DRILLER	10385 FT		
DEPTH LOGGER	10386 FT		
BOTTOM LOGGED INTERVAL	10331 FT		
TOP LOGGED INTERVAL	200 FT		
FINING DRILLER	8.625 IN	● 3276 FT	
CASING LOGGER	3275 FT		
BIT SIZE	7.875 IN		
TYPE OF FLUID IN HOLE	FRESH		
DENSITY	8.7 LB/G	45 S	
PH	10.5	7 C3	
SOURCE OF SAMPLE	FLOWLINE		
RM AT MEAS. TEMP.	1.1031 OHM	● 90 DEGF	
RMF AT MEAS. TEMP.	0.83 OHM	● 90 DEGF	
RMC AT MEAS. TEMP.	1.38 OHM	● 90 DEGF	
SOURCE OF RMF	RMC	CALCULATED	CALCULATED
RM AT BHT	1.09 OHM	● 171.6 DEGF	
TIME SINCE CIRCULATION	9.5 HRS		
MAX. RECORDED TEMP.	176 DEGF		
EQUIP. NO.	HL6672	MIDLAND	
RECORDED BY	K.SCHADE / B.TELLER		
WITNESSED BY	B.FUENTES / S.HENSON		

Properties

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD		CASING RECORD	
BIT SIZE	FROM	TO	TO
11 IN	0 FT	0 FT	3276 FT
7.875 IN	3276 FT		

REMARKS

RUN 1 TRIP 1 : INCL: 4603 PPM
CL: 2798 PPM

BOREHOLE & CEMENT VOLUMES PRESENTED (TOTAL VOLUME LESS 5.5 CSG.)
 1 SMALL TICK = 10 CU. FT.
 1 MEDIUM TICK = 100 CU. FT.
 1 LARGE TICK = 1000 CU. FT.

PORC & CMC RECORDED ON A LIMESTONE MATRIX
 CMC IS CASING AND CALIPER CORRECTED

CREW: J.LOYA / M.FERRIO / E.BOU
 RIG: UNION DRILLING 217

Log & Log Header Requirements



- Company Name
- Lease Name
- Well Number
- Field
- API number
- Elevations
- Fluid/Mud Properties
- Logger depth must cover the producing interval
- Log header must be legible for audit and scanning
- Log must be continuous

Plat



Proration Plat Example



Lease Plat Example



Proration Acreage List



Oil Lease No./Gas Well ID No: 41707
 Lease Name(s): HARDY 18
 Operator(s): APACHE CORPORATION 027200

API No.	District	Lease No.	Lease Name	Well No.	Field No	Field Name	Acres
17333893	8	41707	HARDY 18	1	85280300	SPRABERRY (TREND AREA)	40.18
17333913	8	41707	HARDY 18	2	85280300	SPRABERRY (TREND AREA)	40.18
17334943	8	41707	HARDY 18	3	85280300	SPRABERRY (TREND AREA)	80.36
17334664	8	41707	HARDY 18	5	85280300	SPRABERRY (TREND AREA)	40.18
17334947	8	41707	HARDY 18	6	85280300	SPRABERRY (TREND AREA)	40.18
17335229	8	41707	HARDY 18	7	85280300	SPRABERRY (TREND AREA)	80.36
17335230	8	41707	HARDY 18	8	85280300	SPRABERRY (TREND AREA)	80.36
17335273	8	41707	HARDY 18	9	85280300	SPRABERRY (TREND AREA)	80.36
17335407	8	41707	HARDY 18	10	85280300	SPRABERRY (TREND AREA)	40
17335408	8	41707	HARDY 18	11	85280300	SPRABERRY (TREND AREA)	40.36
17335879	8	41707	HARDY 18	12	85280300	SPRABERRY (TREND AREA)	40.36
17335880	8	41707	HARDY 18	13	85280300	SPRABERRY (TREND AREA)	40
ALLOCATED ACRES IN LEASE							642.88
TOTAL ACRES IN LEASE							642.9
UNALLOCATED ACRES IN LEASE							0.02

An acreage list may be required by field rules. It details each well on the lease in the specified field and the acres allocated to each well.

P-16 (Acreage Designation Section I & II)



RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form P-16

Page 1
Rev. 05/2019

Acreage Designation

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

SECTION I. OPERATOR INFORMATION

Operator Name:		Operator P-5 No.:	
Operator Address:			

SECTION II. WELL INFORMATION

District No.:		API No.:		Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.:		Drilling Permit No.:		
Lease Name:		RRC ID or Lease No.:		
Total Lease Acres:		Field Name:		
Proration Acres:		Field No.:		
Wellbore Profile		Is this a UFT field?		
SL Record (Parent) Well Drilling Permit No.:		County:		

SWR-10 Letter (Downhole Commingling)



BARRY T. SMITHERMAN, CHAIRMAN
DAVID PORTER, COMMISSIONER
CHRISTI CRADDOCK, COMMISSIONER



GIL BUIANO, P.E.
DIRECTOR, OIL AND GAS DIVISION

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

January 28, 2013

APACHE CORPORATION
ATTN: REGULATORY DEPARTMENT
2000 POST OAK BLVD STE 100
HOUSTON TX 77056

RE: APPLICATION FOR EXCEPTION TO SWR 10
LEASE: HARDY 18
WELL NO. 8
GLASSCOCK COUNTY, DISTRICT 08, TEXAS
API NO. 173-35230

FIELD NAME	FIELD NO.
SPRABERRY (TREND AREA)	85280300
GARDEN CITY, NW (STRAWN)	33997700

HYDROGEN SULFIDE RESTRICTION: NO

The Commission has approved your application to down-hole commingle production within the above-referenced wellbore from the SPRABERRY (TREND AREA) and GARDEN CITY, NW (STRAWN) fields in GLASSCOCK County, Texas. For allowable and reporting purposes, the well will be assigned to the SPRABERRY (TREND AREA) field. It will be necessary to have or obtain Commission authority to complete this well in each of the subject zones (Form W-1 approval). The effective date of this SWR 10 Exception is January 25, 2013. This exception to SWR 10 will expire if not used within two (2) years from the date of this permit. This expiration date is January 29, 2015.

Acreage assigned to the referenced well for allocation of allowable shall not be assigned to any other well or wells projected to or completed in the above-referenced fields; such duplicate assignment of acreage is not acceptable, provided, however, that this limitation shall not prevent the reformation of development or proration units so long as no duplicate assignment of acreage occurs, and further, that such reformation does not violate other conservation regulations.

The maximum daily allowable for the combined production will be limited to the top allowable for the SPRABERRY (TREND AREA) field and will become effective upon receipt of Form W-2 showing combined completion data and results of a 24-hour production test taken after the physical work of down hole commingling has been completed. Please indicate in "remarks" the reason for filing this report, giving date of Commission approval of this Rule 10 exception.

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TDD: 800-735-3989 • AN EQUAL OPPORTUNITY EMPLOYER • <http://www.rc.texas.gov>

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Application for Exception to SWR 10, January 28, 2013
HARDY 18 — WELL NO. 8, API NO. 173-35230

Should secondary recovery operations be initiated in either of these reservoirs, it may be necessary to segregate these zones. If surface-commingling authority has been granted, it may be necessary to amend or cancel this authority.

Permit conditions:

The completion report for the commingled well must indicate which perforations belong to which field. The Commission may also require a wellbore diagram to be filed with the completion report for the commingled well. If filed, the wellbore diagram must indicate which perforations belong to which field.

Note: The distribution of this document will be by E-MAIL ONLY. E-mail sent to keisha.stark@apachecorp.com.

If you have any questions, you may contact the engineering unit in the Austin office at 512-475-2307.

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W-12 (Inclination Report)



RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-4-76)

INCLINATION REPORT
(See Copy Mail to 7501000 End-Customer Report)

1. FIELD NAME (as per RRC Records or 750000) **Spraberry (Grand Area)** 2. LEASE NAME **HARDY 1B**

3. OPERATOR **APACHE CORPORATION** 4. WELL NUMBER **8**

5. ADDRESS **303 VETERANS AIRPARK LANE, STE. 3000 - MIDLAND, TX. 79705** 6. RRC Application Number (see completion only)

7. RRC Lease Number (if completion only) **41707**

8. RRC District Number (if completion only)

9. LOCATION (Block, Block and Survey) **SEC 18, B1K 33, T-4-S, H P RR. Co. Survey, A-7D7** 10. County **GLASSCOCK**

RECORD OF INCLINATION

11. Measured Depth (feet)	12. Course Length (hundredths of feet)	13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (feet or angle units)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
410	410	.52	1.08	4.44	4.44
1367	957	.75	1.31	12.53	16.96
2129	762	1	1.75	13.30	30.26
2890	751	.75	1.31	9.96	40.22
3736	846	1.8	3.14	26.58	66.80
4562	826	3.6	6.28	51.89	118.69
5484	922	3.6	6.28	57.92	176.61
6436	952	3.5	6.11	58.15	234.76
7324	858	3.2	5.58	49.59	284.35
8022	698	2.7	4.71	32.89	317.24
8720	698	2.4	4.19	29.24	346.47
9577	857	1.1	1.92	16.45	362.92
10325	748	2.9	5.06	37.86	400.78
10325	60	2.9	5.06	3.04	403.82

17. Is any information shown on the reverse side of this form? yes no

18. Accumulative total displacement of well bore at total depth of "19. Inclination measurements were made in Tubing Casing Open Hole Drill Pipe

20. Distance from surface location of well to the nearest lease line **1513** feet

21. Minimum distance to lease line as prescribed by filed rules **41707** feet

22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO

(If the answer to the above question is "yes", attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts presented on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the numbers on this form.
Laura Young
Signature of Authorized Representative
LALRA YOUNG, OFFICE MANAGER
Name of Person and Title (Type or print)
UNION DRILLING, INC.
Name of Company
Telephone: **325-698-9864**

OPERATOR CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the last numbers on the form.
Susan Blakemore
Signature of Authorized Representative
SUSAN Blakemore - Dept. Tech.
Name of Person and Title (Type or print)
Apache Corporation
Name of Company
Telephone: **432-818-1000**

Approved By: _____ Title: _____ Date: _____

* Designates items certified by company that conducted the inclination surveys.

Required

Required

Shot Points

Drilling Permit

Field Rules

Required

W-15 (Cementing Report)



RAILROAD COMMISSION OF TEXAS
2195 N. Congress
P.O. Box 13947
Austin, Texas 78713-3947

Form W-15
Rev. 08/2014

Cementing: Fill in shaded areas.
Operator: Fill in other areas.

OPERATOR INFORMATION

Operator Name: Apache Corporation
Cementing Name: Basic Energy Services
Operator P.S. No.: 007303
Cementing P.S. No.: 014311

WELL INFORMATION

Well No.: 2110
Lease Name: Buckle Well
Field Name: W.15 (W-15) (2110)
County: Garza
API No.: 42-173-3-921 Drilling Permit No.: 796-957
Lease No.: 46363
Well No.: 42-173-3-921

I. CASING CEMENTING DATA

Type of casing: Conductor Surface Intermediate Oilier Production

Drilled hole size (in.): 17 1/2" Depth of drilled hole (ft.): 436' Est. % wash-out or hole enlargement: 33%
Size of casing in O.D. (in.): 13.375" Casing weight (lb/ft) and grade: 48 H-40 No. of centralizers used: 6
Was cement circulated to ground surface (or bottom of casing) outside casing? YES NO If no for surface casing, explain in Remarks.
Setting depth shoe (ft.): 436' Top of liner (ft.): Surface
Setting depth liner (ft.):
Mrs. waiting on cement before drill-out: 15 Calculated top of cement (ft.): Cementing date: 11-22-14

Slurry No.	No. of sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	436	C	See Remarks	334	341'
2					
3					
Total	436	C	See Remarks	334	341'

II. CASING CEMENTING DATA

Type of casing: Surface Intermediate Production Tapered production Multi-stage cement shoe Multiple parallel strings

Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): Casing weight (lb/ft) and grade: No. of centralizers used:
Tapered string drilled hole size (in.): Tapered string depth of drilled hole (ft.):
Upper: Lower: Upper: Lower: Upper: Lower:
Tapered string size of casing in O.D. (in.): Tapered string casing weight (lb/ft) and grade: Tapered string vol. of centralizers used:
Upper: Lower: Upper: Lower: Upper: Lower:
Was cement circulated to ground surface (or bottom of casing) outside casing? YES NO
Setting depth shoe (ft.):
Mrs. waiting on cement before drill-out: Calculated top of cement (ft.): Cementing date:

Slurry No.	No. of sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

III. CASING CEMENTING DATA

Type of casing: Surface Intermediate Production Tapered production Multi-stage cement shoe Multiple parallel strings

Drilled hole size (in.): Depth of drilled hole (ft.): Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): Casing weight (lb/ft) and grade: No. of centralizers used:
Tapered string drilled hole size (in.): Tapered string depth of drilled hole (ft.):
Upper: Lower: Upper: Lower: Upper: Lower:
Tapered string size of casing in O.D. (in.): Tapered string casing weight (lb/ft) and grade: Tapered string vol. of centralizers used:
Upper: Lower: Upper: Lower: Upper: Lower:
Was cement circulated to ground surface (or bottom of casing) outside casing? YES NO
Setting depth shoe (ft.):
Mrs. waiting on cement before drill-out: Calculated top of cement (ft.): Cementing date:

Slurry No.	No. of sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

CEMENTING DATA

	FLUG 01	FLUG 02	FLUG 03	FLUG 04	FLUG 05	FLUG 06	FLUG 07
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Corrected casing setting depth (ft.)							
CSP setting depth (ft.)							
Amount of cement on top of CSP (ft.)							
Secks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tapped (ft.)							
Slurry weight (lb/cu.ft.)							
Flowback of cement							
Perforate and operate (YES/NO)							

REMARKS

Proprietary Use Only with Permitted Applications

Cementing Data

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 51.144, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in this report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data. The certification covers cementing data only.

Myself, Staff Assistant
Name and title of cementer's representative: Basic Energy Services
Cementing Company: Unity Wells
Signature: [Signature]
P. O. Box 30475 Midland TX 79703 409-681-1994 05-5-14
Address: City State Zip Code Tel Area Code Number Date: Mo. Day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 51.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

SHARON BROWN DRILLING TECH SHARON BROWN
Title: Signature
305 Veterans Airpark Ln., #1000
Midland, TX 79705
Date: 11/22/14
City State Zip Code Tel Area Code Number Date: Mo. Day yr.

Instructions for Form W-15, Cementing Report

NOTE: The Form W-15 must be submitted as an attachment to a Form O-3 (See Well-Log Pressure Test, Completion or Resimulation Report, and Log), Form W-2 (Oil and Gas Well Production Report, Completion or Resimulation Report, and Log), Form W-3 (Logging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a well.

- What to file: An operator should file an original and two copies of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
- The Form W-15 should be filed with the Form W-3 Logging Record, unless the Form W-15 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file: An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (https://www.rct.com/online/submit/submit.asp) or a paper copy of the form may be mailed to the Commission in Route 50-A Box 13947 Austin, Texas 78713-3947.
- Surface casing: An operator must set and cement sufficient surface casing to protect all public water wells, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the casing. Before setting a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the production depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission. To plug and abandon a well, operators must use only cements approved by the Commission's Division of Field Operations in accordance with 5005.14 (b)(1) (b)(2) (b)(3) (b)(4) (b)(5) (b)(6) (b)(7) (b)(8) (b)(9) (b)(10) (b)(11) (b)(12) (b)(13) (b)(14) (b)(15) (b)(16) (b)(17) (b)(18) (b)(19) (b)(20) (b)(21) (b)(22) (b)(23) (b)(24) (b)(25) (b)(26) (b)(27) (b)(28) (b)(29) (b)(30) (b)(31) (b)(32) (b)(33) (b)(34) (b)(35) (b)(36) (b)(37) (b)(38) (b)(39) (b)(40) (b)(41) (b)(42) (b)(43) (b)(44) (b)(45) (b)(46) (b)(47) (b)(48) (b)(49) (b)(50) (b)(51) (b)(52) (b)(53) (b)(54) (b)(55) (b)(56) (b)(57) (b)(58) (b)(59) (b)(60) (b)(61) (b)(62) (b)(63) (b)(64) (b)(65) (b)(66) (b)(67) (b)(68) (b)(69) (b)(70) (b)(71) (b)(72) (b)(73) (b)(74) (b)(75) (b)(76) (b)(77) (b)(78) (b)(79) (b)(80) (b)(81) (b)(82) (b)(83) (b)(84) (b)(85) (b)(86) (b)(87) (b)(88) (b)(89) (b)(90) (b)(91) (b)(92) (b)(93) (b)(94) (b)(95) (b)(96) (b)(97) (b)(98) (b)(99) (b)(100) (b)(101) (b)(102) (b)(103) (b)(104) (b)(105) (b)(106) (b)(107) 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(b)(774) (b)(775) (b)(776) (b)(777) (b)(778) (b)(779) (b)(780) (b)(781) (b)(782) (b)(783) (b)(784) (b)(785) (b)(786) (b)(787) (b)(788) (b)(789) (b)(790) (b)(791) (b)(792) (b)(793) (b)(794) (b)(795) (b)(796) (b)(797) (b)(798) (b)(799) (b)(800) (b)(801) (b)(802) (b)(803) (b)(804) (b)(805) (b)(806) (b)(807) (b)(808) (b)(809) (b)(810) (b)(811) (b)(812) (b)(813) (b)(814) (b)(815) (b)(816) (b)(817) (b)(818) (b)(819) (b)(820) (b)(821) (b)(822) (b)(823) (b)(824) (b)(825) (b)(826) (b)(827) (b)(828) (b)(829) (b)(830) (b)(831) (b)(832) (b)(833) (b)(834) (b)(835) (b)(836) (b)(837) (b)(838) (b)(839) (b)(840) (b)(841) (b)(842) (b)(843) (b)(844) (b)(845) (b)(846) (b)(847) (b)(848) (b)(849) (b)(850) (b)(851) (b)(852) (b)(853) (b)(854) (b)(855) (b)(856) (b)(857) (b)(858) (b)(859) (b)(860) (b)(861) (b)(862) (b)(863) (b)(864) (b)(865) (b)(866) (b)(867) (b)(868) (b)(869) (b)(870) (b)(871) (b)(872) (b)(873) (b)(874) (b)(875) (b)(876) (b)(877) (b)(878) (b)(879) (b)(880) (b)(881) (b)(882) (b)(883) (b)(884) (b)(885) (b)(886) (b)(887) (b)(888) (b)(889) (b)(890) (b)(891) (b)(892) (b)(893) (b)(894) (b)(895) (b)(896) (b)(897) (b)(898) (b)(899) (b)(900) (b)(901) (b)(902) (b)(903) (b)(904) (b)(905) (b)(906) (b)(907) (b)(908) (b)(909) (b)(910) (b)(911) (b)(912) (b)(913) (b)(914) (b)(915) (b)(916) (b)(917) (b)(918) (b)(919) (b)(920) (b)(921) (b)(922) (b)(923) (b)(924) (b)(925) (b)(926) (b)(927) (b)(928) (b)(929) (b)(930) (b)(931) (b)(932) (b)(933) (b)(934) (b)(935) (b)(936) (b)(937) (b)(938) (b)(939) (b)(940) (b)(941) (b)(942) (b)(943) (b)(944) (b)(945) (b)(946) (b)(947) (b)(948) (b)(949) (b)(950) (b)(951) (b)(952) (b)(953) (b)(954) (b)(955) (b)(956) (b)(957) (b)(958) (b)(959) (b)(960) (b)(961) (b)(962) (b)(963) (b)(964) (b)(965) (b)(966) (b)(967) (b)(968) (b)(969) (b)(970) (b)(971) (b)(972) (b)(973) (b)(974) (b)(975) (b)(976) (b)(977) (b)(978) (b)(979) (b)(980) (b)(981) (b)(982) (b)(983) (b)(984) (b)(985) (b)(986) (b)(987) (b)(988) (b)(989) (b)(990) (b)(991) (b)(992) (b)(993) (b)(994) (b)(995) (b)(996) (b)(997) (b)(998) (b)(999) (b)(1000)

W-15 (Important Notes)



- Full and complete signatures from both operator and cementer are required.
 - Digital signatures are acceptable
 - Initials are not acceptable

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Jeremy Croxton/Cementer Josephate Kaino/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company	Signature
P.O. Box 117 Jacksboro, TX 76458	940-567-3392	08/14/2018
Address City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Jeremy Croxton/Cementer Enrique Vallejo/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company	Signature
P.O. Box 117 Jacksboro, TX 76458	940-567-3392	08/15/2018
Address City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

W-15 (Changes)



Operator is not authorized to alter cementing information without Cementer's approval.

- If change was made, will need both Cementer and Operator representative's name authorizing change and date on W-15.
- If change was made without Cementer's approval, operator will be required to request/submit a new cementing report.

W-15 (Well Information)



Packet Summary Data	Submitted: Online
Tracking No.: 185192	Status: Approved (04/26/2018)
Operator Name: APACHE CORPORATION (027200)	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA) R 40 EXC	Completion or Recompletion Date: 09/11/2017
Lease Name: SCHROCK, W.M. 2326	Purpose Of Filing: Well Record Only
RRC District No.: 08	Well Type: Shut-In Producer
RRC Gas ID or Oil Lease No.: 49796	County: MIDLAND
Well No.: 9HA	Wellbore Profile: HORIZONTAL
API No.: 329-41595 	Horiz WB Completion Type:
Drilling Permit No: 824312	SL Record (Parent) Well Drilling Permit No.:
Field No.: 85280301	Horizontal Depth Severance (feet): 8400
Field Validated Date: 06/15/2018	Unit No:
Submitted: (01/03/2018)	

←
MUST MATCH
↓



RAILROAD COMMISSION OF TEXAS
1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

CEMENTING REPORT

Form W-15
Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION		
Operator Name: Apache Corporation	Operator P-5 No.: 027200	
Cementer Name: Basic Energy Services	Cementer P-5 No.: 054313	
WELL INFORMATION		
District No.: 08	County: Midland	
Well No.: 9 HA	API No.: 42-329-41595	Drilling Permit No.: 824312
Lease Name: Schrock WM 2326	Lease No.:	
Field Name: <i>Spraberry (Trend Area) R40 Exc.</i>	Field No.: <i>85280301</i>	

W-15 (Sec. I for Operator)



Casing Cementing Data - Conductor, Surface, Intermediate, Liner & Production

I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Sec. I for Cementer)



RRC Approved Cementer fills out Shaded Areas:
 Conductor, Surface, Intermediate, Liner & Production

I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Data for Sec. I)



Sec. I Casing Cementing Data - Intermediate or Production

I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Data for Sec. II)



Sec. II Casing Cementing Data - Intermediate or Production

II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)			Tapered string depth of drilled hole (ft.)		
Upper:		Lower:	Upper:		Lower:
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:	Upper:		Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Data for Tapered Hole or String)



Sec. II or III Casing Cementing Data - Tapered Hole or Tapered String

II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)			Tapered string depth of drilled hole (ft.)		
Upper:		Lower:	Upper:		Lower:
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:	Upper:		Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Multi-Stage Data for Sec. II)



Sec. II Casing Cementing Data - Multi-Stage Cement Shoe

II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)			Tapered string depth of drilled hole (ft.)		
Upper:		Lower:	Upper:		Lower:
Tapered string size of casing in O.D. (in.)		Tapered string casing weight(lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:		Lower:	Upper:		Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Multi-Stage Data for Sec. III)



Sec. III Casing Cementing Data - Multi-Stage Cement/DV Tool

III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Tapered string drilled hole size (in.)			Tapered string depth of drilled hole (ft.)		
Upper:	Lower:		Upper:	Lower:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

W-15 (Plugs on Back of W-15)



Cementing to

- Squeeze
- Plug Back
- Plug And Abandon

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							
REMARKS							

W-15 (Cement Squeeze)



If squeeze or plug back, recompletion information will appear under several completion tabs:

- W-15 is **required** to be attached for well to be removed from schedule.

• Packet Data Tab –

If recompletion or reclass, give former field (with reservoir) & gas ID or oil lease No.:							
Row	Field & Reservoir	Lease No.	Well Type	Well No.	District Code	Field No.	Prior Service Type
1	BENEDUM (FUSSELMAN)	16562	Oil Well	4	7C	07109500	Producing

• Page 2 Plug Back Depth Changes –

Vertical Depth: 11969 feet
Total Vertical Depth, Drilling Permit value : 12000 feet
Plug Back Depth - TVD: 11000 feet

• Page 5 Completion Tab –

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUGS, RETAINER, ETC.				
Depth Interval	From (feet)	To (feet)	Amount and Kind of Material Used	Process
1	7495.0	10617.0	1,771,746 SLICKWATER 15#BXL/1,041,780 20/40 WHITE SAND	Fracture
2	11020.0	11020.0	5 SACKS CLASS C CEMENT DUMPED ON CIBP	Cast Iron Bridge Plug

Remarks:

W-21 (Application for Exc. to SWR-21)



Railroad Commission of Texas Oil and Gas Division

Application for Exception to Statewide Rule 21 to Produce by Swabbing, Bailing, or Jetting

Form W-21

Operator Name		Operator No.
Address (Street, City, State and Zip Code)		
RRC District No.	County	
Lease Name	RRC Lease ID No.	Well No.
Field Name	RRC Field No.	
Location (Section, Block, Survey - Give perpendicular location from two designated survey lines.)		

Casing and Tubing Data

Name of String	Size	Weight	Hole Size	Setting Depth	Sacks Cement/Top of Cement	Top Determined By
Surface Casing						
Intermediate						
Long String						
Tubing (Size and Depth)	Is production by Swabbing Bailing Jetting Other (attach explanation)				Total Depth of Well	
Perforated Interval Top Bottom	Is production through Tubing or Casing				Is the Wellbore subject to SWR 36? (H ₂ S) Yes or No	
Date Well Drilled	Is production through Perforations or Open Hole				API No.	
Depth to Base of Deepest Fresh Water Zone (Attach copy of Water Board Letter)	Is production to Tank Battery or Mobile Unit				Anticipated Monthly Production	
Are there any other Wells producing by swabbing, bailing, or jetting in this Field? Yes or No				Wellhead Control (Type and Model No.)		
Names and Addresses of Surface Owners (attach list if necessary)						
Names and Addresses of Mineral Interest Owners of Record (attach list if necessary)						

Signature	
Name of Person (Print)	Title
Date	Telephone

CERTIFICATE
I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, that I am authorized to make this application, that this application was prepared by me or under my supervision, and that the information stated herein is true, correct and complete, to the best of my knowledge

P-12 (Certificate of Pooling Authority)



RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12987
Austin, Texas 78711-2987
www.rc.state.tx.us

CERTIFICATE OF POOLING AUTHORITY

P-12

Revised 05/2011

1. Field Name(s) SPRABERRY (TREND AREA)	2. Lease/O Number (if assigned) 39874	3. RRC District Number 08
4. Operator Name APACHE CORPORATION	5. Operator P-O Number 027200	6. Well Number 1A
7. Pooled Unit Name GIBSON 7 UNIT	8. API Number 42-173-34572	9. Purpose of Filing <input checked="" type="checkbox"/> Drilling Permit (W-1) <input type="checkbox"/> Completion Report
10. County GLASSCOCK	11. Total acres in pooled unit 160	

DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

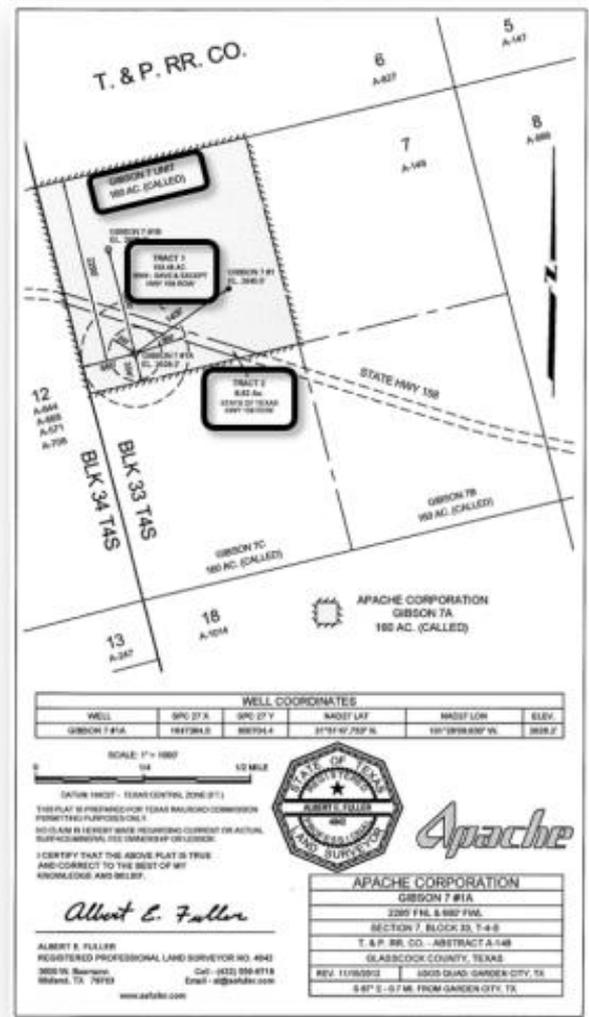
TRACT/PLAT NUMBER	TRACT NAME	ACRES IN TRACT (See plat #2 attached)	INDICATE UNWOVDED INTERESTS UNLEASED NON-POOLED	
TRACT 1	NW¼- EXCEPT HWY 158 ROW	153.48	<input type="checkbox"/>	<input type="checkbox"/>
TRACT 2	STATE OF TX HWY 158 ROW	6.52	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

CERTIFICATION:
I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

Keisha Stark
Signature
KEISHA STARK
Print Name
REGULATORY TECH Keisha.Stark@apachecorp.com 11/15/2012 (432) 818-1181
Title E-mail (if available) Date Phone

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

- When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(a)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
- The certified plat shall designate each tract with an outline and a tract identifier. The tract identifier on the plat shall correspond to the tract identifier and associated information listed on the Certificate.
- If there is an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
- If the Purpose of Filing is to obtain a drilling permit, in box #11 list all applicable fields separately or enter "All Fields" if the Certificate pertains to all fields requested on Form W-1.
- If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #11 for the completion.
- Identify the drill site tract with an "x" to the left of the tract identifier.
- The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.



Verify Attachments



Packet Data | W-2 | Complete Additional Forms | **Load Attachments** | Messages | Submit

Attachments

Packet Summary Data

Tracking No.: 230574
 Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)
 Field Name: SPRABERRY (TREND AREA)
 Lease Name: HARDY 18
 RRC District No.: 08
 RRC Gas ID or Oil Lease No.: 41707
 Well No.: 8
 API No.: 173-35230
 Field No.: 85280300

Submitted: Online

Status: Work in Progress
 Type Of Completion: New Well
 Completion or Recompletion Date: 12/14/2012
 Purpose Of Filing: Initial Potential
 Well Type: Producing
 County: GLASSCOCK
 Drilling Permit No: 745925
 Wellbore Profile: DIRECTIONAL

Step 1 - Packet Data

Step 2 - W-2 Data

Step 3 - Complete Additional Forms

Step 4 - Load Attachments

Step 5 - Submit

* The current limit on files being uploaded is 6MB.

Upload Attachment

Attachment Type: -Select One- File: Choose File No file chosen Upload

Current Attachments

GAU LETTER-968992	HARDY 18 - 8 - GAU Letter.pdf	Delete
L-1 Header-968993	HARDY 18 - 8 - Neutron Density Log Header.pdf	Delete
Flat-968994	HARDY 18 - 8 - Flat.tif	Delete
Proration Acreage List-968995	HARDY 18 - 8 - Acreage List.pdf	Delete
SWR 10 Letter-968996	HARDY 18 - 8 - SWR-10 Approval Letter.pdf	Delete
W-12-968997	HARDY 18 - 8 - W-12.pdf	Delete
W-15-968998	HARDY 18 - 8 - W-15.pdf	Delete
Other-968999	HARDY 18 - 8 - P-16.pdf	Delete

Required Attachments

W-15, L-1 Header, GAU LETTER

Certified Directional Surveys

Attachment Type	Name	From	To	Label	Start Date	End Date
Directional Survey - Gyro	Apache-Hardy 18 #8-WL 12700-Portfolio.pdf	100	3300		09/15/2012	09/15/2012
Directional Survey - Certification	Apache - Hardy 18 #8 - WL 12700 - RRC CERT FORM- ELine.pdf	100	3300		09/15/2012	09/15/2012

Make sure to open your attachments to verify they are attached with the correct attachment type & are legible.

Submittal Page



Packet Data | W-2 | Complete Additional Forms | Load Attachments | Messages | Submit

Submit Packet

Packet Summary Data		Submitted: Online	
Tracking No.: 230574	Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Status: Work in Progress	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Lease Name: HARDY 18	Completion or Recompletion Date: 12/14/2012	Purpose Of Filing: Initial Potential
RRC District No.: 08	RRC Gas ID or Oil Lease No.: 41707	Well Type: Producing	County: GLASSCOCK
Well No.: 8	API No.: 173-35230	Drilling Permit No: 745925	Wellbore Profile: DIRECTIONAL
Field No.: 85280300			

Validate Submit

Submit Status

FIX	Form Name	Warnings	Status
<input type="button" value="Fix"/>	Packet Data	0	Work in Progress
<input type="button" value="Fix"/>	W-2	4	Certified
<input type="button" value="Fix"/>	L-1	0	Certified
<input type="button" value="Fix"/>	P-4 Data	1	Certified
<input type="button" value="Fix"/>	P-15	0	Certified
<input type="button" value="Fix"/>	W-12	2	Certified

Attachments

GAU LETTER, L-1 Header, Plat, Proration Acreage List, SWR 10 Letter, W-12, W-15, Other

Warnings

[1200] Page 2 - Warning: Proration, number of producing wells is different than the value on the Drilling Permit.
[1242] The Packet agrees with the Drilling Permit (Total Depth, Density, and Field).
[1485] Internal: Directional survey was made was set to yes.
[1887] This Completion is down-holed commingled, attach a copy of SWR 10 approval letter to this completion.

Miscellaneous Submit Data

Is this filing for a disposal well, water supply well, service well, or geothermal well?: No Yes
If a log (L-1 form) has previously been filed with the Commission, does it cover this interval?: No Yes

Save

Validate Submit

Address any applicable warnings prior to submittal of the tracking number.

Required

Submit Forms Lacking



Packet Data | W-2 | Complete Additional Forms | Load Attachments | Messages | **Submit**

Submit Packet

Packet Summary Data	Submitted: Online
Tracking No.: 230574	Status: Work in Progress
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date: 12/14/2012
Lease Name: HARDY 18	Purpose Of Filing: Initial Potential
RRC District No.: 08	Well Type: Producing
RRC Gas ID or Oil Lease No.: 41707	County: GLASSCOCK
Well No.: 8	Drilling Permit No: 745925
API No.: 173-35230	Wellbore Profile: DIRECTIONAL
Field No.: 85280300	

Step 1 - Packet Data
Step 2 - W-2 Data
Step 3 - Complete Additional Forms
Step 4 - Load Attachments
Step 5 - Submit

Are you sure you wish to submit this Packet?

Submit Forms Lacking

Submit with required forms missing or uncertified?: No Yes

Submit with required attachments missing?: No Yes

Required

Cancel Submit

Finished



- (Cmpl_1275) The Packet has been submitted successfully.
- (Cmpl_1340) Upon review of your filing by RRC Staff, additional forms/attachments/information may be required.

[Packet Data](#) [W-2](#) [Complete Additional Forms](#) [Load Attachments](#) [Messages](#) [Submit](#)

Submit Packet

Packet Summary Data	Submitted: Online
Tracking No.: 230574	Status: Submitted (unknown)
Operator Name: RAILROAD COMMISSION DISTRICT 08 (000010)	Type Of Completion: New Well
Field Name: SPRABERRY (TREND AREA)	Completion or Recompletion Date: 12/14/2012
Lease Name: HARDY 18	Purpose Of Filing: Initial Potential
RRC District No.: 08	Well Type: Producing
RRC Gas ID or Oil Lease No.: 41707	County: GLASSCOCK
Well No.: 8	Drilling Permit No: 745925
API No.: 173-35230	Wellbore Profile: DIRECTIONAL
Field No.: 85280300	

Step 1 - Packet Data
Step 2 - W-2 Data
Step 3 - Complete Additional Forms
Step 4 - Load Attachments
Step 5 - Submit

The Packet 230574 has been submitted successfully.

Finish

Message Review



Well Completions

Filing Operator: APACHE CORPORATION (027200)

Filing Completion Package

[File a New Completion Packet](#)

[Update Existing Completion Packet](#)

[Select Filing Operator](#)

My Messages | **Operator Messages** | Recent Notifications

1 - 10 of 105 results

[<<First] [<Previous] [Next>>] [Last>>] | Page: 1 2 3 4 5 6 7 8 9 10 of 11

Page Size: 10

Tracking No. 	User	Operator	Status	Sent By	Current Messages	Response Count
130362	Starr, Sherene	APACHE CORPORATION	Published (03/13/2015)	Hitchcock, Ivy	Attachments tab has been opened at the Operator's request.	0
129394	Starr, Sherene	APACHE CORPORATION	Published (03/12/2015)	Hitchcock, Ivy	Attachments tab has been opened, per an Operator request.	0
129156	Hopkins, Madeleine	APACHE CORPORATION	Published (02/27/2015)	Cassidy, Karen	Please correct the answer to the second question under shot point information on your online W-12 to "yes" as your attached W-12 shows that all shot points were taken at intervals of 1000' or less. **Please respond to this message via the "add response" button AND also email us to expedite review and resolution of the message. (karen.cassidy@rrc.state.tx.us)** [message date: 02/27/2015]	1
128527	Moughon, Debbie	APACHE CORPORATION	Published (02/24/2015)	Rosenquist, Scott	Please add a formation record entry for Edwards. <Scott.Rosenquist@rrc.state.tx.us>	0
128527	Moughon, Debbie	APACHE CORPORATION	Published (02/24/2015)	Rosenquist, Scott	The perfed interval on this W-2 is 9684-9830 feet, which does not comply with the permitted injection interval of 9720-9860 feet. Please advise as to how the operator plans to address this. <Scott.Rosenquist@rrc.state.tx.us>	0
128527	Moughon, Debbie	APACHE CORPORATION	Published (02/24/2015)	Rosenquist, Scott	Prior completion records for this well show perfs at 8956-9077 feet in the Austin Chalk. These perfs would have to have been isolated in order for the tubing-casing annulus to be successfully pressure-tested. It will be necessary to indicate on page 5 of the W-2 what down-hole work was done to achieve isolation of these prior perfs. <Scott.Rosenquist@rrc.state.tx.us>	0
128115	Smith, Christine	APACHE CORPORATION	Published (03/11/2015)	Lewis, Kayleigh	A Rule 13 exception must be obtained for this well. The surface csg was drilled 316' over the GAU depth- only allowed to drill up to 200' deeper than the GAU depth. In the future, submit this request prior to drilling as required by Rule 13. Please submit to jeffery.morgan@rrc.state.tx.us, thank you.	0
128006	Smith, Christine	APACHE CORPORATION	Published (02/20/2015)	Haynes, Danielle	please be advised that an acreage list will also be required along with the P-15 and lease plat	0

Adding Responses



Search | Return to List | Engineering | **Messages** | Routing | Events | GIS Status | Related Packets

Packet Data | G-1 | Internal Update | Form Summary | Approval | Submit | Attachments | Comments | Process Log

Messages

Packet Summary Data		Submitted: Online	
Tracking No.: 128527		Status: Submitted (02/18/2015)	
Operator Name: APACHE CORPORATION (027200)	Type Of Completion: Other/Recompletion		
Field Name: GIDDINGS (EDWARDS, GAS)	Completion or Recompletion Date: 01/26/2015		
Lease Name: REVELLE SWD	Purpose Of Filing: Well Record Only		
RRC District No.: 03	Well Type: Active UIC		
RRC Gas ID or Oil Lease No.:	County: BURLESON		
Well No.: 1	Drilling Permit No: 799274		
API No.: 051-30311	Field Validated Date:		
Wellbore Profile: VERTICAL	Field No.: 34733620		

Cancel	Resolve	Status	Sent By	Response Count	Last Published RRC Response	Current Messages	Edit/Reply
<input type="checkbox"/>	<input type="checkbox"/>	Submitted (04/27/2015) Published (04/27/2015)	Rosenquist, Scott	0		A W-15 must be provided for the 200-sack squeeze.	Add Response
						A W-15 has been uploaded.	Save Clear
<input type="checkbox"/>	<input type="checkbox"/>	Submitted (02/24/2015) Resolved (04/17/2015)	Rosenquist, Scott	1		Please add a formation record entry for Edwards. <Scott.Rosenquist@rrc.state.tx.us>	Add Response
<input type="checkbox"/>	<input type="checkbox"/>	Submitted (02/24/2015) Resolved (04/27/2015)	Rosenquist, Scott	1		Prior completion records for this well show perms at 8956-9077 feet in the Austin Chalk. These perms would have to have been isolated in order for the tubing-casing annulus to be successfully pressure-tested. It will be necessary to indicate on page 5 of the W-2 what down-hole work was done to achieve isolation of these prior perms. <Scott.Rosenquist@rrc.state.tx.us>	Add Response
<input type="checkbox"/>	<input type="checkbox"/>	Submitted (02/24/2015) Resolved (04/27/2015)	Rosenquist, Scott	1		The perfed interval on this W-2 is 9684-9830 feet, which does not comply with the permitted injection interval of 9720-9860 feet. Please advise as to how the operator plans to address this. <Scott.Rosenquist@rrc.state.tx.us>	Add Response

New SWR Changes



Recent changes were made to create avenues for horizontal development.

In the past this took place via hearings on a field level but these changes are now standard statewide.

3.5, 3.31, 3.38, 3.40, 3.45, 3.51, 3.52, 3.86

How Changes Affect Compliance



- Stacked Lateral Rules (now statewide)
 - No field rule hearing needed.
- Stacked laterals
 - All associated wellbores require a survey (G-10 / W-10) to be filed.
- P-16 is now considered a form not a data sheet
- P-16 must be filed for all horizontal wells

How Changes Affect Compliance (cont.)



- P-12 is **not** required upon completion if information has not changed from time of permit approval.
- SWR-51
 - Filing of a potential test has increased from 10 days to 30 (a 30-day rule exception)
- SWR-52
 - Operator may request overproduction be cancelled administratively if there is no protest from all other operators within the field

UFT Fields



Field #	Field Name	O/G	District
02252500	AMARILLO, NORTH (CANYON LIME)	O	10
02870300	ANGIE (JAMES LIME)	O&G	06
06476300	BEAR GRASS (COTTON VALLEY CONS)	G	05
06648500	BECKVILLE (COTTON VALLEY)	G	06
07527722	BETHANY (TRAVIS PEAK CONS.)	O&G	06
12018200	BRISCOE RANCH (EAGLEFORD)	O&G	01
13147285	BUFFALO WALLOW (GRANITE WASH)	O&G	10
16032174	CARTHAGE (COTTON VALLEY)	O&G	06
16032300	CARTHAGE (HAYNESVILLE SHALE)	G	06
16032928	CARTHAGE (TRAVIS PEAK 6400)	O&G	06
16039300	CARTHAGE, SE (CV)	G	06
18600250	CLARK MARTIN (GRANITE WASH)	O&G	10
28899166	EMMA (DEVONIAN)	O&G	08
31913800	FORD, WEST (WOLFCAMP)	O&G	08
33151200	FRYE RANCH (CONSOLIDATED)	O&G	10
33998500	GARDEN CITY, S. (WOLFCAMP)	O&G	08
34204200	GATES RANCH (EAGLE FORD SHALE)	G	04
34733600	GIDDINGS (BUDA)	O&G	03
34733610	GIDDINGS (EAGLEFORD)	O&G	03
34943300	GILMER (COTTON VALLEY SANDS)	O&G	06
35415300	GLENWOOD (COTTON VALLEY)	G	06
40311100	HEMPHILL (DOUGLAS)	O&G	10
40311200	HEMPHILL (GRANITE WASH.)	O&G	10
40356200	HENDERSON, E. (COTTON VALLEY)	G	06
41911500	HOEFS T-K (WOLFCAMP)	O	08
42341300	HOLT RANCH (CONSOLIDATED)	O&G	7C
43305666	HUGH FITZSIMMONS (SAN MIGUEL)	O&G	01
44510500	INDIO TANKS (PEARSALL)	O&G	01

Field #	Field Name	O/G	District
52019750	LARD RANCH (GRANITE WASH -C-)	O&G	10
53869270	LIPSCOMB (CLEVELAND)	O&G	10
53878250	LIPSCOMB, S.E. (CLEVELAND)	O&G	10
56599500	MADISONVILLE, W. (WOODBINE -A-)	O	03
58257300	MATHERS RANCH (GRANITE WASH)	G	10
60265500	MEG (GRANITE WASH)	G	10
60462500	MENDOTA, NW. (GRANITE WASH)	O&G	10
61691235	MILLS RANCH (GRANITE WASH CONS.)	O&G	10
61792111	MINDEN (COTTON VALLEY CONS.)	O&G	06
65280200	NEWARK, EAST (BARNETT SHALE)	O&G	09
66461275	OAK HILL (COTTON VALLEY)	O&G	06
67849150	OVERTON (COTTON VALLEY SAND)	O&G	06
67998500	OZONA, NE. (CANYON 7520)	O&G	7C
68735120	PAN PETRO (CLEVELAND)	O&G	10
70247666	PEERY (MARMATON)	O&G	10
71052900	PHANTOM (WOLFCAMP)	O&G	08
80544500	SANDBAR (BONE SPRING)	O&G	08
85280300	SPRABERRY (TREND AREA)	O&G	08
85279200	SPRABERRY (TREND AREA)	O&G	7C
85280301	SPRABERRY (TREND AREA) R 40 EXC	O&G	08
85279201	SPRABERRY (TREND AREA) R 40 EXC	O&G	7C
86125250	STILES RANCH (GRANITE WASH CONS)	G	10
95369160	WASKOM (COTTON VALLEY)	O&G	06
96537275	WEST PARK (GRANITE WASH)	G	10
96785300	WHEELER N.E. (GRANITE WASH)	O&G	10
96969150	WHITE OAK (COTTON VALLEY SAND)	G	06
98359800	WOLFBONE (TREND AREA)	O&G	08
98563083	WOODLAWN (COTTON VALLEY)	O&G	06



Unconventional Fracture Treated Field – is a field in which horizontal drilling and hydraulic fracturing must be used in order to recover resources from all or part of a field and which is developed using either vertical or horizontal techniques.

Important Note:

Special Field rules still override Statewide Rules.

UFT Field Key Points



- No maximum diagonal limit
- Daily allowable shall be 100 bbl. per acre, 600 mcf.
- Proration plats are not required for UFT fields.
- P-16 must be filed with completion
- Independent acreage assignment between horizontal and vertical wells

Contact Well Compliance



For immediate assistance please call the Well Compliance for producing or shut-in wells.

Phone: 512-463-6975

Fax: 512-463-6955

Email: prorationunit@rrc.texas.gov

Website: <https://www.rrc.texas.gov/>

Address: P.O. Box 12967, Austin, Texas 78711-2967

Contact the District Office



<p>District: 01 & 02 112 E. Pecan Street, Suite 705 San Antonio, TX 78205 Phone: (210) 227-1313 Fax: (210) 227-4822</p>	<p>District: 03 1919 N Loop West, Suite 620 Houston, TX 77008 Phone: (713) 869-5001 Fax: (713) 869-9621</p>
<p>District: 04 10320 I-37 Corpus Christi, TX 78410 Phone: (361) 242-3113 Fax: (361) 242-9613</p>	<p>District: 05 & 06 2005 North State Highway 42 Kilgore, TX 75662 Phone: (903) 984-3026 Fax: (903) 983-3413</p>
<p>District: 7B & 8A 3444 North First St, Suite 600 Abilene, TX 79603 Phone: (325) 677-3545 Fax: (325) 677-7122</p>	<p>District: 7C 622 South Oakes St, Suite J San Angelo, TX 76903 Phone: (325) 657-7450 Fax: (325) 657-7455</p>
<p>District: 08 10 Desta Dr, Suite 500 E Midland, TX 79705 Phone: (432) 684-5581 Fax: (432) 684-6005</p>	<p>District: 09 5800 Kell Blvd, Suite 300 Wichita Falls, TX 76310 Phone: (940) 723-2153 Fax: (940) 723-5088</p>
<p>District: 10 200 West Foster, Room 300 Pampa, TX 79065 Phone: (806) 665-1653 Fax: (806) 665-4217</p>	