



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 10/19/2017
Tracking No.: 179207

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: EP ENERGY E&P COMPANY, L.P. Operator No.: 253385
Operator Address: ATTN CHELSEA CANTRELLE PO BOX 4660 HOUSTON, TX 77210-4660

WELL INFORMATION

API No.: 42-105-42358 County: CROCKETT
Well No.: 38200H RRC District No.: 7C
Lease Name: UNIVERSITY SALT DRAW Field Name: LIN (WOLFCAMP)
RRC Lease No.: 18942 Field No.: 53613750
Location: Section: 20, Block: 38, Survey: UL, Abstract: U262

Latitude: Longitude:
This well is located 7.77 miles in a SE
direction from BARNHART,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing Completion or Recompletion Date: 03/29/2017

Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 02/15/2017 822839
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 02/28/2017 Date of first production after rig released: 03/29/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 02/28/2017 Date plug back, deepening, recompletion, or drilling operation ended: 03/29/2017
Number of producing wells on this lease in this field (reservoir) including this well: 47 Distance to nearest well in lease & reservoir (ft.): 314.0
Total number of acres in lease: 32786.63 Elevation (ft.): 2611 GL
Total depth TVD (ft.): 6699 Total depth MD (ft.): 15526
Plug back depth TVD (ft.): Plug back depth MD (ft.): 15466
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 85.5
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: None
Electric Log Other Description:
Location of well, relative to nearest lease boundaries Off Lease : No
of lease on which this well is located: 8926.0 Feet from the North Line and
695.0 Feet from the East Line of the
UNIVERSITY SALT DRAW Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

PACKET: N/A

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination		Depth (ft.): 825.0	Date: 02/14/2017
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 08/17/2017		Production method: Gas Lift
Number of hours tested: 24		Choke size: 64
Was swab used during this test? No		Oil produced prior to test: 7172.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 869.00		Gas (MCF): 1061
Gas - Oil Ratio: 1220		Flowing Tubing Pressure: 281.00
Water (BBLS): 1953		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 869.0		Gas (MCF): 1061
Oil Gravity - API - 60.: 48.0		Casing Pressure: 1021.00
Water (BBLS): 1953		

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	9 5/8	12 1/4	1023			C/POZ; C	350	859.7	0	Circulated to Surface
2	Conventional Production	5 1/2	8 1/2	15516			C/H	2215	3782.2	0	Circulated to Surface

LINER RECORD									
Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
N/A									

TUBING RECORD				
<u>Row</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
1	2 7/8	6496		6485 / EUE AS1-X PACKER

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 6983	15423.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		Yes	
		If yes, actuation pressure (PSIG): 8380.0	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 8500		Actual maximum pressure (PSIG) during hydraulic fracturing: 8486	
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		Yes	
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
1	Fracture	ADD PERFS AND FRAC (SEE FRACFOCUS FOR DETAILS)	6983 15423

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
QUEEN	Yes	1248.1	1248.3	Yes	LOGGED MWD GR
SAN ANDRES	Yes	1419.0	1420.1	Yes	LOGGED MWD GR
LEONARD	Yes	3294.2	3305.6	Yes	LOGGED MWD GR
WOLFCAMP	Yes	5673.8	5685.4	Yes	PRODUCING INTERVAL
CANYON	No			Yes	NOT PENETRATED
STRAWN	No			Yes	NOT PENETRATED
DEVONIAN	No			Yes	NOT PENETRATED
ELLENBURGER	No			Yes	NOT PENETRATED

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?

No

Is the completion being downhole commingled (SWR 10)?

No

REMARKS
KOP 6188'

RRC REMARKS
<div><div>PUBLIC COMMENTS:</div><div>[RRC Staff 2017-09-20 14:16:40.565] EDL=8507 feet, max acres=340, LIN (WOLFCAMP) oil well</div></div> <div><div>CASING RECORD :</div></div> <div><div>TUBING RECORD:</div></div> <div><div>PRODUCING/INJECTION/DISPOSAL INTERVAL :</div></div> <div><div>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</div></div> <div><div>POTENTIAL TEST DATA:</div></div>

OPERATOR'S CERTIFICATION	
Printed Name: Rita Martinez-Dean	Title: Associate Analyst
Telephone No.: (713) 997-6212	Date Certified: 09/18/2017

Cementer Name: COMPASS CEMENTING LLC	Cementer P-5 No.: 169789
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WELL INFORMATION

District No.: 7C	County: REAGAN	
Well No.: 38200H	API No.: 42-105-42358	Drilling Permit No.: 822839
Lease Name: UNIVERSITY SALT DRAW	Lease No.: 18942	
Field Name: LIN (WOLFCAMP)	Field No.: 53613750	

I. CASING CEMENTING DATA

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.): 12 1/4	Depth of drilled hole (ft.): 1025	Est. % wash-out or hole enlargement: 5 %
Size of casing in O.D. (in.): 9 5/8	Casing weight (lbs/ft) and grade: 36 # J-55	No. of centralizers used: 6
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 1023.52	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: N/A	Calculated top of cement (ft.): 0'	Cementing date: 02/28/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	195	G/POZ	SEE REMARKS	450.45	600'
2	155	C	SEE REMARKS	209.25	423.52'
3					
Total	350			659.7	1023.52'

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:		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					

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					

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

SLURRY 1:GEL 5.00%,C-45 1.25%,C-41P .50%,SALT 5.20#/sk,KOL SEAL 6.00#/sk,PHENOSEAL 2.00#/sk SLURRY 2:C-45 .25%,SALT 1.61#/sk.

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.

Jose M Perez / Cement Supervisor

Compass Cementing ,LLC

Name and title of cementer's representative

Cementing Company

Signature

1930 S HWY 277

Sonora,

Tx

76950 325-387-2940

02/28/2017

Address

City,

State,

Zip Code

Tel: Area Code

Number

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, 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.

Kenneth Swiley

Company Rep.

Typed or printed name of operator's representative

Title

Signature

PO BOX 154 HOUSTON TEXAS 77001

713 997 1185

02/28/2017

Address

City,

State,

Zip Code

Tel: Area Code

Number

Date: mo. day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- What to file:** An operator should file an original and one copy 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, Plugging Record, unless the Form W-3 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://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, 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 cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection 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 cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

**RAILROAD COMMISSION OF TEXAS**1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967**Form W-15**

Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.**CEMENTING REPORT**

OPERATOR INFORMATION					
Operator Name: EP ENERGY E&P COMPANY, L.P.			Operator P-5 No.: 253385		
Cementer Name: COMPASS WELL SERVICES			Cementer P-5 No.: 159789		

WELL INFORMATION		
District No.: 7C	County: CROCKETT	
Well No.: 38200H	API No.: 42-105-42358	Drilling Permit No.: 822839
Lease Name: UNIVERSITY SALT DRAW	Lease No.: 18942	
Field Name: LIN (WOLFCAMP)	Field No.: 53613750	

I. CASING CEMENTING DATA					
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", 8 3/4"		Depth of drilled hole (ft.): 15526'		Est. % wash-out or hole enlargement: 0%	
Size of casing in O.D. (in.): 5.5"		Casing weight (lbs/ft) and grade: 17# HCP-110		No. of centralizers used: 78	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.): 15,516'		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 0' (SURFACE)		Cementing date: 3/29/17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	580	CLASS C	SEE REMARKS	1824	8215
2	1635	CLASS H	SEE REMARKS	2158.2	9312
3					
Total	2215	CH		3782.2	15527

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:	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					

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					

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							
LEAD CLASS C 50% GEL 8% C-45 0.53% CITRIC ACID 0.28% CSA-1000 0.10% ROL SEAL 5 #/SK. GYP SEAL 4#/SK. C-47B 0.10% TAIL CLASS H 50% C-45 0.13% CSA-1000 0.10% C-47B 0.10% C-20 0.10%							

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.

DEREK MOORE CEMENTER

COMPASS CEMENTING LLC

Name and title of cementer's representative

Cementing Company

Signature

1930 SOUT US 277 HWY

SONORA TX 76950

325-387-2940

3/29/17

Address

City,

State,

Zip Code

Tel: Area Code

Number

Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, 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.

PAUL MIZELL

CO REP

Typed or printed name of operator's representative

Title

Signature

P.O. BOX 154 HOUSTON, TX. 77001

713-997-1160

3/29/2017

Address

City,

State,

Zip Code

Tel. Area Code

Number

Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

Tracking No.: 179207

This facsimile L-1 was generated electronically from data submitted to the RRC.

Instructions

When to File Form L-1:

- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:

- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:

- with the appropriate Commission district office

Filling out Form L-1:

- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:

- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SECTION I. IDENTIFICATION

Operator Name: EP ENERGY E&P COMPANY, L.P.	District No. 7C	Completion Date: 03/29/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 822839	
Lease Name UNIVERSITY SALT DRAW	Lease/ID No. 18942	Well No. 38200H
County CROCKETT	API No. 42- 105-42358	

SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN

☒ B. BASIC ELECTRIC LOG RUN. (Select one)

- ☒ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☐ 4. Log attached to (select one):

☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____

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). _____

Well No(s). _____

Rita Martinez-Dean

Signature

EP ENERGY E&P COMPANY, L.P.

Name (print)

Associate Analyst

Title

(713) 997-6212

Phone

09/11/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-

Gamma Log

MD
1":100'

Company: EP Energy E&P Company
Well Name: University Salt Draw 3820 OH
API: 42-105-42358-0000
County/Parish: Crockett
State/Prov: Texas
Country: USA
Job #: B0294

Company: EP Energy E&P Company
Well Name: University Salt Draw 3820 OH
API: 42-105-42358-0000
County/Parish: Crockett
State or Prov: Texas
Country: USA
Job number: B0294
Field: Wolfcamp Shale
Rig Identification: Nabors 888
Survey Company: Nabors Drilling Solutions
MWD Operator 1 Devin Williams
MWD Operator 2 Remote Operating Center
Geologist Lauren Robinson
Drilling Engineer Derek Motley
Coordinates N: 498577.550 E: 1761276.930

Log measurements: GR, ROP	Depth	Date
Depth measured from: Drill Floor - 27 ft	Start: 1,045 ft	3/23/2017
Maximum temperature: F	End:	

Casing	Depth	Size	Mud type: Oil based	Elevations
Surface:	990 ft	9 5/8"	Density: 8.95 ppg	KB: 2638 ft
Intermediate:			Viscosity: 50	DF: 27 ft
			Rm:	GL: 2611 ft
			Rmf:	
			Rmc:	

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	8 3/4"	54.00 ft	55.00 ft	1,045 ft	6188 ft	3/23/2017	3/24/2017
2	8 3/4"	55.00 ft	56.00 ft	6188 ft	6817 ft	3/24/2017	3/24/2017
3	8 1/2"	54.00 ft	55.00 ft	6817 ft	7220 ft	3/25/2017	3/25/2017
4	8 1/2"	54.00 ft	55.00 ft	7220 ft	9965 ft	3/25/2017	3/26/2017
5	8 1/2"	54.00 ft	55.00 ft	9965 ft		3/26/2017	
6							
7							
8							
9							
10							

RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

Acreage Designation

SECTION I. OPERATOR INFORMATION

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

SECTION II. WELL INFORMATION

District No.:	County:	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.:	API No.:	
Total Lease Acres:	Drilling Permit No.:	
Lease Name:	Lease No.:	
Field Name:	Field No.:	

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 III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

[illegible]

Total Well Count >		< A. Total Assigned Horiz. Acreage		< C. Total Assigned Acreage
		< Total Remaining Horiz. Acreage		< Total Remaining Acreage
		< B. Total Assigned Vert./Dir. Acreage		
		< Total Remaining Vert./Dir. Acreage		

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

--

Attach Additional Pages As Needed. ☐ No additional pages ☐ Additional Pages: _____ (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

Signature	Name and title (type or print)	Email (include email address <i>only</i> if you affirmatively consent to its public release)
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Address	City,	State,	Zip Code	Tel: Area Code	Number	Date: mo. day yr.
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GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Groundwater Advisory Unit

Date Issued: 14 February 2017**GAU Number:** 167065**Attention:** EP ENERGY E&P COMPANY,
ATTN JOSEPH ARAIZA
HOUSTON, TX 77210**Operator No.:** 253385**API Number:**
County: CROCKETT
Lease Name: UNIVERSITY SALT DRAW
Lease Number: 18942
Well Number: 3820MH
Total Vertical Depth: 8999
Latitude: 31.035326
Longitude: -101.095704
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U262; Block-38; Section-20

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 20 feet below the base of the Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth between 775 and 825 feet.

This recommendation is applicable to all wells within a radius of 2000 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 02/06/2017. 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

NAD 83, Central Zone 4203
 Surface Hole Location (SHL Sec. 20)
 Latitude: 31.035483° N
 Longitude: 101.095565° W
 X=2057743.95
 Y=10341156.44
 Elev.=2611'
 1973 FSL & 695' FEL

NAD 27, Central Zone 4203
 Surface Hole Location (SHL Sec. 20)
 Latitude: 31.035327° N
 Longitude: 101.095576° W
 X=1781276.93
 Y=498577.55
 Elev.=2611'
 1973 FSL & 695' FEL

Point of Penetration (PP Sec. 20)
 Latitude: 31.034766° N
 Longitude: 101.095727° W
 X=1781228.44
 Y=498573.39
 MD=5,680.58'
 1769' FSL & 743' FEL

First Take Point (FTP Sec. 20)
 Latitude: 31.036242° N
 Longitude: 101.095670° W
 X=1781249.93
 Y=498910.45
 MD=5,983'
 2306' FSL & 723' FEL

Last Take Point (LTP Sec. 11)
 Latitude: 31.059420° N
 Longitude: 101.095748° W
 X=1781283.12
 Y=507340.16
 MD=15,423'
 163' FNL & 715' FEL

Bottom Hole Location (BHL Sec. 11)
 Latitude: 31.059703° N
 Longitude: 101.095747° W
 X=1781284.22
 Y=507443.16
 MD=15,526'
 60' FNL & 714' FEL

Unit Boundary Distance	
SHL	8926' FNL & 695' FEL
PP	9130' FNL & 743' FEL
FTP	8552' FNL & 723' FEL
LTP	163' FNL & 715' FEL
BHL	60' FNL & 714' FEL

EP ENERGY E&P COMPANY, L.P.
 UNIVERSITY SALT DRAW
 32,786.827 ACRES (CALLED)

EP ENERGY
 Well Name
 UNIVERSITY SALT DRAW 38200H AS DRILLED
 Drilling Field
 UN (WOLFCAMP) FIELD
 Nearest Town
 7.77 MILES SOUTHEAST OF BARNHART, TEXAS

NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Shown Acreages were furnished by others. The information contained on this plat is intended for the sole use of EP ENERGY E&P COMPANY, L.P.

NOTE: Bearings and coordinates refer to the Texas Coordinate System of 1927, Central Zone (4203), as observed by GPS observations.

I, Damian M. Jagers do hereby certify that the above described well location was surveyed on the ground under my supervision, as shown.

Damian M. Jagers 8/30/2017
 DAMIAN M. JAGERS
 REGISTERED PROFESSIONAL LAND SURVEYOR
 TEXAS REGISTRATION NO. 8269



EP ENERGY E&P COMPANY, L.P.

University Salt Draw 38200H As Drilled
 Block 38, Section 11
 Block 38, Section 20
 Crockett County, Texas

NAD 83, Central Zone 4203
Surface Hole Location (SHL Sec. 20)
Latitude: 31.035493° N
Longitude: 101.095965° W
X=2057743.95
Y=10341156.44
Elev.=2611'
1973' FSL & 695' FEL

NAD 27, Central Zone 4203
Surface Hole Location (SHL Sec. 20)
Latitude: 31.035327° N
Longitude: 101.095576° W
X=1761276.93
Y=498577.55
Elev.=2611'
1973' FSL & 695' FEL

Point of Penetration (PP Sec. 20)
Latitude: 31.034765° N
Longitude: 101.095727° W
X=1761228.44
Y=498373.39
MD=5,680.59'
1769' FSL & 743' FEL

First Take Point (FTP Sec. 20)
Latitude: 31.036242° N
Longitude: 101.095670° W
X=1761249.93
Y=498910.45
MD=6,983'
2306' FSL & 723' FEL

Last Take Point (LTP Sec. 11)
Latitude: 31.059420° N
Longitude: 101.095748° W
X=1761283.12
Y=507340.16
MD=15,423'
163' FNL & 715' FEL

Bottom Hole Location (BHL Sec. 11)
Latitude: 31.059703° N
Longitude: 101.095747° W
X=1761284.22
Y=507443.10
MD=15,526'
60' FNL & 714' FEL

Unit Boundary Distance	
SHL	8926' FNL & 695' FEL
PP	9130' FNL & 743' FEL
FTP	8592' FNL & 723' FEL
LTP	163' FNL & 715' FEL
BHL	60' FNL & 714' FEL

EP ENERGY E&P COMPANY, L.P.
UNIVERSITY SALT DRAW
32,786.627 ACRES (CALLED)

EP ENERGY

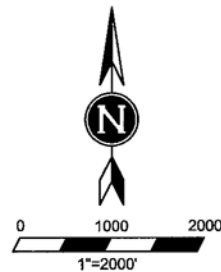
Well Name
UNIVERSITY SALT DRAW 3820OH AS DRILLED
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
7.77 MILES SOUTHEAST OF BARNHART, TEXAS

NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Shown Acreages were furnished by others. The information contained on this plat is intended for the sole use of EP ENERGY E&P COMPANY, L.P.

NOTE: Bearings and coordinates refer to the Texas Coordinate System of 1971, Central Zone (4203), as observed by GPS observations

I, Damian M. Jagers do hereby certify that the above described well location was surveyed on the ground under my supervision, as shown.

Damian M. Jagers 8/30/2017
DATE
DAMIAN M. JAGERS
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269



XTS
CROSS TIMBERS SURVEYING, LLC

1501 DARTMOUTH ST. LONGVIEW, TX 75801
Phone: 254-965-9080 Fax: 254-965-9715
www.xtsurvey.com

EP ENERGY E&P COMPANY, L.P.

University Salt Draw 3820OH As Drilled
Block 38, Section 11
Block 38, Section 20
Crockett County, Texas