



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 02/07/2018
Tracking No.: 184615

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.: 42-383-39943 County: REAGAN
Well No.: 0802DH RRC District No.: 7C
Lease Name: UNIVERSITY CENTRAL Field Name: LIN (WOLFCAMP)
RRC Lease No.: 17575 Field No.: 53613750
Location: Section: 2, Block: 8, Survey: UL, Abstract: U137

Latitude: Longitude:
This well is located 10.44 miles in a W
direction from BIG LAKE,
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: 08/18/2017

Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 07/12/2017 828607
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 07/18/2017 Date of first production after rig released: 08/18/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 07/18/2017 Date plug back, deepening, recompletion, or drilling operation ended: 08/18/2017
Number of producing wells on this lease in this field (reservoir) including this well: 86 Distance to nearest well in lease & reservoir (ft.): 338.0
Total number of acres in lease: 38716.54 Elevation (ft.): 2905 GL
Total depth TVD (ft.): 7895 Total depth MD (ft.): 18074
Plug back depth TVD (ft.): Plug back depth MD (ft.): 18014
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 111.0
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: 3732.0 Feet from the North Line and
7882.0 Feet from the West Line of the
UNIVERSITY CENTRAL 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.): 850.0	Date: 06/06/2017
SWR 13 Exception	Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION	
Date of test: 11/08/2017	Production method: Flowing
Number of hours tested: 24	Choke size: 64
Was swab used during this test? No	Oil produced prior to test: 4991.00
PRODUCTION DURING TEST PERIOD:	
Oil (BBLs): 808.00	Gas (MCF): 273
Gas - Oil Ratio: 337	Flowing Tubing Pressure: 2646.00
Water (BBLs): 2049	
CALCULATED 24-HOUR RATE	
Oil (BBLs): 808.0	Gas (MCF): 273
Oil Gravity - API - 60.: 38.1	Casing Pressure: 207.00
Water (BBLs): 2049	

CASING RECORD											
Row	Type of Casing	Casing	Hole	Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size	Size	Depth	Stage	Tool		Amount	Volume	Cement	Determined
		(in.)	(in.)	(ft.)	Depth (ft.)	Depth (ft.)	Class	(sacks)	(cu. ft.)	(ft.)	By
1	Surface	9 5/8	12 1/4	1049			C/POZ; C	815	1384.2	0	Circulated to Surface
2	Conventional Production	5 1/2	8 3/4	18064			C/H/POZ	2680	4734.8	0	Calculation

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			
Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	8180	8170 / EUE AS1-X

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8560	17968.0

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): 4800.0			
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 8500			
Actual maximum pressure (PSIG) during hydraulic fracturing: 7927			
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)	8560 17968

FORMATION RECORD						
<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>	
GRAYBURG	Yes	2812.8	2847.3	Yes	LOGGED	MWD GR
QUEEN	Yes	3194.1	3237.9	Yes	LOGGED	MWD GR
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	3420.2	3470.3	Yes	LOGGED	MWD GR
CLEARFORK	Yes	5436.0	5512.8	Yes	LOGGED	MWD GR
SPRABERRY	Yes	6271.5	6348.6	Yes	LOGGED	MWD GR
WOLFCAMP	Yes	7792.5	7870.4	Yes	PRODUCING INTERVAL	
STRAWN	No			Yes	NOT PENETRATED	
FUSSELMAN	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)?						
Is the completion being downhole commingled (SWR 10)?						
				No		

REMARKS

RRC REMARKS
PUBLIC COMMENTS: [RRC Staff 2018-01-18 16:11:31.604] EDL=9356 feet, max acres=360, LIN (WOLFCAMP) oil well
CASING RECORD :
TUBING RECORD: KOP - 7,794'.
PRODUCING/INJECTION/DISPOSAL INTERVAL :
ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :
POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION	
Printed Name: Rita Martinez-Dean	Title: Associate Analyst
Telephone No.: (713) 997-6212	Date Certified: 01/29/2018

**RAILROAD COMMISSION OF TEXAS**

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION					
Operator Name: EP ENERGY E&P COMPANY, L.P.			Operator P-5 No.: 253385		
Cementer Name: COMPASS CEMENTING SERVICES LLC			Cementer P-5 No.: 169769		
WELL INFORMATION					
District No.: 7C		County: REAGAN			
Well No.: 0802DH		API No.: 42-363-47-38339943		Drilling Permit No.: 824567-828607	
Lease Name: UNIVERSITY CENTRAL		Lease No.: 17575			
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 25"		Depth of drilled hole (ft.): 1,056'		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.): 9 625"		Casing weight (lbs/ft) and grade: 36# & 40# 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.): 1049.7'		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 0' Surface		Cementing date: 7/18/17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	310	C/POZ	SEE REMARKS	713	806.83
2	155	C	SEE REMARKS	209.25	2276.5
3					
Total	465			922.25	2883.33
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 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					

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	7/18/17						
Size of hole or pipe (in.)	12 25"						
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	350						
Slurry volume pumped (cu. ft.)	462						
Calculated top of plug (ft.)	Surface						
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)	14.8						
Class/type of cement	C						
Perforate and squeeze (YES/NO)							

REMARKS
LEAD CLASS C 85% POZ 15% BENTONITE 5%, C-45 1 25%, C-40P 3%, SALT 5 2%, KOL SEAL 6%, PHENOSEAL 2% TAIL CLASS C 100% C-45 25%, SALT 1 61%.

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.

Justin Cortez Cement Supervisor I Compass Cementing Services LLC
 Name and title of cementer's representative Cementing Company Signature
 1933 S US HWY 277 Sonora, Texas 76950 325-387-2940 7/18/17
 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.

Dusty Johnson Well Site Supervisor
 Typed or printed name of operator's representative Title Signature
 P.O. Box 154 Houston, Texas 77001 713-997-1205 7/18/17
 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 cements approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=14](http://info.sos.state.tx.us/pls/pub/readac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=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

CEMENTING REPORT

Cementer: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION					
Operator Name: EP ENERGY E&P COMPANY, L.P.			Operator P-5 No.: 253385		
Cementer Name: COMPASS CEMENTING SERVICES			Cementer P-5 No.: 169789		

WELL INFORMATION		
District No.: 7C	County: REAGAN	
Well No.: 0802DH	API No.: 42-383-39943	Drilling Permit No.: 828607
Lease Name: UNIVERSITY CENTRAL	Lease No.: 17575	
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.): 8.75", 8.5"		Depth of drilled hole (ft.): 18,074'		Est. % wash-out or hole enlargement: 0%	
Size of casing in O.D. (in.): 5.5"		Casing weight (lbs/ft) and grade: 17# HCP110		No. of centralizers used: 85	
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.): 18,064'		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 0' (SURFACE)		Cementing date: 8/18/17	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	815	C/POZ	SEE REMARKS	2273	8798.6
2	1885	H/POZ	SEE REMARKS	2461.8	10608.5
3					
Total	2680	C/H/POZ		4734.8	19407.1

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					

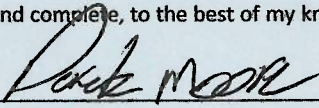
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
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%, POZ 50%, GEL 8%, C-45 0.25%, CITRIC ACID 0.30%, CSA-1000 0.13%, KOL SEAL 5 #/SK, GYP SEAL 4 #/SK, C-47B 0.10% TAIL: CLASS H 50%, POZ 50%, C-45 0.08%, CSA-1000 0.08%, C-47B 0.20%, 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	COMPASS CEMENTING SERVICES			
Name and title of cementer's representative	Cementing Company	Signature		
10013 W. CO. RD. 157	MIDLAND, TX 79706	432-561-5970	8/18/17	
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.

WESTON WHITE	WELL SITE SUPERVISOR			
Typed or printed name of operator's representative	Title	Signature		
PO BOX 154	HOUSTON, TX 77001	713-997-1160	8/18/17	
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.

- A. **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.
- B. **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).
- C. **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.
- D. **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.
- E. **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.
- F. **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.
- G. **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.: 184615

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: 08/18/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 828607	
Lease Name UNIVERSITY CENTRAL	Lease/ID No. 17575	Well No. 0802DH
County REAGAN	API No. 42- 383-39943	

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

02/06/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-



Gamma Log

Company: EP Energy E&P Company
Well Name: University Central 802 DH
API: 42-383-3994
County/Parish: Reagan Co
State/Prov: Texas
Country: USA
Job #: T-3550

Company: EP Energy E&P Company
Well Name: University Central 802 DH
API: 42-383-3994
County/Parish: Reagan Co
State or Prov: Texas
Country: USA
Job number: T-3550
Field: Wolfcamp Shale
Rig Identification: Nabors 888
Survey Company: Nabors Drilling Solutions
MWD Operator 1 KRIS SEALS
MWD Operator 2 Remote Operating Center
Geologist Mindy wilson
Drilling Engineer Derek Motley
Coordinates N: 31.20505033
W 101.6360435

Log measurements: GR, ROP			Depth	
Depth measured from: Drill Floor - 27 ft			Start: 1077 ft	
Maximum temperature:			End: 18074 ft	
Casing	Depth	Size	Mud type: Oil based	
Surface:	1077 ft	9 5/8"	Density: 8.90	
Intermediate:			Viscosity: 55 SEC / QT	
			Rm:	Rmf: Rmc:

Ele
KB:
DF:
GL:

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	
1	8 3/4"	50.00 ft	51.00 ft	1077 ft	7800 ft	8/10/2017	
2	8 3/4"	51.00 ft	52.00 ft	7800 ft	8560 ft	8/13/2017	
3	8 1/2"	54.00 ft	55.00 ft	8560 ft	18074 ft	8/14/2017	
4							
5							
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)
-----------	--------------------------------	--

Address	City,	State,	Zip Code	Tel: Area Code	Number	Date: mo. day yr.
---------	-------	--------	----------	----------------	--------	-------------------

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 06 June 2017**GAU Number:** 173252**Attention:** EP ENERGY E&P COMPANY,
ATTN JOSEPH ARAIZA
HOUSTON, TX 77210**Operator No.:** 253385**API Number:**
County: REAGAN
Lease Name: UNIVERSITY CENTRAL
Lease Number: 17575
Well Number: 0802BH
Total Vertical Depth: 8999
Latitude: 31.204941
Longitude: -101.636055
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U137; Block-8; Section-2

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 850 and 850 feet.

This recommendation is applicable to all wells within a radius of 1150 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 06/02/2017. 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. 2)
Latitude: 31.205203° N
Longitude: 101.636442° W
X=1889207.53
Y=10404448.89
Elev.=2909'
1632' FSL & 60' FEL

NAD 27, Central Zone 4203

Surface Hole Location (SHL Sec. 2)
Latitude: 31.205060° N
Longitude: 101.636344° W
X=1592739.90
Y=661872.16
Elev.=2909'
1632' FSL & 60' FEL

Point of Penetration (PP Sec. 2)
Latitude: 31.204862° N
Longitude: 101.636461° W
X=1591983.13
Y=661812.04
MD=7,570.38'
1668' FSL & 816' FEL

First Take Point (FTP Sec. 2)
Latitude: 31.203506° N
Longitude: 101.636448° W
X=1591981.49
Y=661337.55
MD=6,560'
1081' FSL & 907' FEL

Last Take Point (LTP Sec. 14)
Latitude: 31.177724° N
Longitude: 101.636650° W
X=1591603.30
Y=651943.70
MD=17,985'
2278' FSL & 788' FEL

Bottom Hole Location (BHL Sec. 14)
Latitude: 31.177432° N
Longitude: 101.636667° W
X=1591604.86
Y=651837.76
MD=18,074'
2170' FSL & 790' FEL

Unit Boundary Distances

SHL	3732' FNL & 7862' FWL
PP	3747' FNL & 7151' FWL
FTP	4222' FNL & 7139' FWL
LTP	12850' FSL & 9525' FWL
BHL	12754' FSL & 9524' FWL

University Land
Block 08

A-U148

A-U159

EP ENERGY

Well Name
UNIVERSITY CENTRAL 0802DH AS DRILLED
Drilling Field
LIN (WOLF CAMP) FIELD
Nearest Town
10.44 MILES WEST OF BIG LAKE, 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 Acresage 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 coordinate 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 11/16/2017

REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6289



0 1000 2000
1"=2000'



1500 W. UNIVERSITY BLVD., SUITE 100
FARMERSVILLE, TEXAS 77936
Phone: 281-355-8888 Fax: 281-355-8889
www.xtsenergy.com

EP ENERGY E&P COMPANY, L.P.

University Central 0802DH As Drilled
Block 8, Section 02
Block 8, Section 11
Block 8, Section 14
Reagan County, Texas