



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 01/02/2018
Tracking No.: 183386

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.: 42-383-39823 County: REAGAN
Well No.: 0823DH RRC District No.: 7C
Lease Name: UNIVERSITY CENTRAL Field Name: LIN (WOLFCAMP)
RRC Lease No.: 17575 Field No.: 53613750
Location: Section: 23, Block: 8, Survey: UL, Abstract: U158

Latitude: Longitude:
This well is located 11.42 miles in a SW
direction from BIG LAKE,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Well Record Only
Type of completion: New Well
Well Type: Shut-In Producer Completion or Recompletion Date: 11/07/2017

Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 03/03/2017 823658
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 04/03/2017 Date of first production after rig released: 11/07/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 04/03/2017 Date plug back, deepening, recompletion, or drilling operation ended: 11/07/2017
Number of producing wells on this lease in this field (reservoir) including this well: 90 Distance to nearest well in lease & reservoir (ft.): 383.0
Total number of acres in lease: 38716.54 Elevation (ft.): 2845 GL
Total depth TVD (ft.): 7606 Total depth MD (ft.): 16456
Plug back depth TVD (ft.): Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? No Rotation time within surface casing (hours): 112.5
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: 8498.0 Feet from the South Line and
4062.0 Feet from the East 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.): 750.0

Date: 03/08/2017

SWR 13 Exception

Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test:

Production method:

Number of hours tested: 24

Choke size:

Was swab used during this test? No

Oil produced prior to test:

PRODUCTION DURING TEST PERIOD:

Oil (BBLs):

Gas (MCF):

Gas - Oil Ratio: 0

Flowing Tubing Pressure:

Water (BBLs):

CALCULATED 24-HOUR RATE

Oil (BBLs):

Gas (MCF):

Oil Gravity - API - 60.:

Casing Pressure:

Water (BBLs):

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	908			C/POZ; C	355	669.2	0	Circulated to Surface
2	Conventional Production	5 1/2	8 3/4	16447			C/POZ;H/P OZ	2365	4239.2	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			
Row	Size (in.)	Depth	Size (ft.)
N/A			

Packer Depth (ft.)		Type
		/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
N/A			

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

Was hydraulic fracturing treatment performed? No

Is well equipped with a downhole actuation sleeve? No

If yes, actuation pressure (PSIG):

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

Actual maximum pressure (PSIG) during hydraulic fracturing:

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? No

Row

Type of Operation

Amount and Kind of Material Used

Depth Interval (ft.)

N/A

FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation</u>	<u>Remarks</u>
				<u>isolated?</u>	
GRAYBURG	Yes	2937.2	2964.0	Yes	LOGGED MWD GR
QUEEN	Yes	2619.2	2639.6	Yes	LOGGED MWD GR
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	3215.0	3247.7	Yes	LOGGED MWD GR
CLEARFORK	Yes	5206.7	5247.9	Yes	LOGGED MWD GR
SPRABERRY	Yes	5773.6	5814.8	Yes	LOGGED MWD GR
WOLFCAMP	Yes	7230.6	7272.5	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)? No

Is the completion being downhole commingled (SWR 10)? No

REMARKS

RRC REMARKS

PUBLIC COMMENTS:

CASING RECORD :

TUBING RECORD:

THIS WELL IS DUCT.

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

Title: Associate Analyst

Telephone No.: (713) 997-6212 **Date Certified:** 11/28/2017

Date Certified: 11/28/2017



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 WELL SERVICES			Cementer P-5 No.: 169789		

WELL INFORMATION			
District No.: 7C		County: REAGAN	
Well No.: 0823DH		API No.: 42-383-39823	Drilling Permit No.: 823658
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.): 908		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.): 9.625		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.): 908		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date: 4/03/17	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	200	C/POZ	SEE REMARKS	460	1470
2	155	C	SEE REMARKS	209.25	602
3					
Total	355			669.25	2072

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.) Upper: Lower:			Tapered string depth of drilled hole (ft.) Upper: Lower:		
Tapered string size of casing in O.D. (in.) Upper: Lower:			Tapered string casing weight(lbs/ft) and grade Upper: Lower:		Tapered string no. of centralizers used 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					

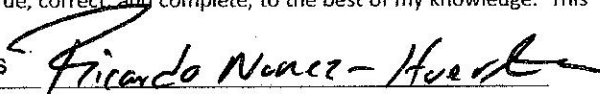
III. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings					
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.) Upper: Lower:			Tapered string depth of drilled hole (ft.) Upper: Lower:		
Tapered string size of casing in O.D. (in.) Upper: Lower:			Tapered string casing weight(lbs/ft) and grade Upper: Lower:		Tapered string no. of centralizers used 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					

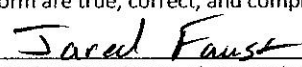
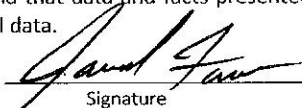
CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount 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 CMT: Class C 85%, Poz 15%, Bentonite 5%, C-45 1.25%, C-40P 0.2%, Salt 5.2#/sk, Kol Seal 6#/sk, Phenoseal 2#/sk TAIL CMT: Class C 100%, C-45 0.25%, 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.

Ricardo Nunez-Huerta CMT Supervisor	Compass Well Services	
Name and title of cementer's representative	Cementing Company	Signature
10013W Rd 157	Midland, Tx 79706	432-561-5970
Address	City, State, Zip Code	Tel: Area Code Number
		Date: mo. day yr. 04/03/2017

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.

	Company Rep	
Typed or printed name of operator's representative	Title	Signature
P.O. Box 154	Houston Tx 77001	713-997-1205
Address	City, State, Zip Code	Tel: Area Code Number
		Date: mo. day yr. 04/03/2017

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.



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P.O. Box 12967
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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.: 169789

WELL INFORMATION

WELL INFORMATION		
District No.: 7C	County: REAGAN	
Well No.: 0823DH	API No.: 42-383-39823	Drilling Permit No.: 823658
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.): 16,456'	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.): 5.5"	Casing weight (lbs/ft) and grade: 17# HCP-110	No. of centralizers used: 77
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.): 16,447'	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.): 0' SURFACE	Cementing date: 11/7/17

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	755	C/POZ	SEE REMARKS	2114	8243
2	1610	H/POZ	SEE REMARKS	2125.2	9191
3					
Total	2365			4239.2	17434

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.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used 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.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used 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:

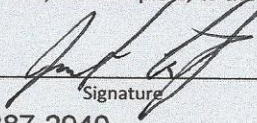
SLURRY

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% BENTONITE 8%, C-45 .3%, C-47B .05%, CITRIC ACID .3%, CSA-1000 .15%, KOL SEAL 5%, GYP SEAL 4%. TAIL CLASS H 50% POZ 50% C-20 .08%, C-45 .1%, C-47B .2%, CSA-1000 .1%.

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	11/7/17
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.

DANNY RICHMOND	WELLSITE SUPERVISOR	
Typed or printed name of operator's representative		Signature
PO BOX 154,	HOUSTON, TX 77001	713-997-1160
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.: 183386

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: 11/07/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 823658	
Lease Name UNIVERSITY CENTRAL	Lease/ID No. 17575	Well No. 0823DH
County REAGAN	API No. 42- 383-39823	

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

11/28/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-



GAMMA LOG

Company: EP Energy E&P Company, L.P.
Well Name: University Central 823 DH
API: 42-383-39823
County/Parish: Reagan
State/Prov: Texas
Country: USA
Job #: T-3844

Company: EP Energy E&P Company, L.P.
Well Name: University Central 823 DH
API: 42-383-39823
County/Parish: Reagan
State or Prov: Texas
Country: USA
Job number: T-3844
Field: Lin (Wolfcamp)
Rig Identification: Nabors 888
Survey Company: Nabors Drilling Solutions
MWD Operator 1 Kris Seals
MWD Operator 2 Remote Operations Center
Geologist Mindy wilson
Drilling Engineer Derek Motley
Coordinates 31.16581 N / 101.64924 W

Log measurements: GAMMA / DIR / ROP / TEMP
Depth measured from: Drill Floor - 27.0 ft ft
Maximum temperature: 193
Depth Start: 930 ft
End: 16456 ft

Casing	Depth	Size	Mud type: Oil based	Ele
Surface:	930 ft	9 5/8"	Density: 9.55 PPG	KB:
Intermediate:			Viscosity: 60 Sec / Quart	DF:
			Rm: NA Rmf: NA Rmc: NA	GL2

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	8 3/4"	49.00 ft	50.00 ft	930 ft	7210 ft	10/31/2017	1
2	8 3/4"	50.00 ft	51.00 ft	7210 ft	7380 ft	11/01/2017	1
3	8 3/4"	50.00 ft	51.00 ft	7380 ft	7854 ft	11/02/2017	1
4	8 1/2"	52.00 ft	53.00 ft	7854 ft	16456 ft	11/03/2017	1
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

Acres Designation

SECTION I. OPERATOR INFORMATION

Operator Name: EP Energy E&P Company, L.P.	Operator P-5 No.: 253385
Operator Address: P.O. Box 4660, Houston, TX 77210-4660	

SECTION II. WELL INFORMATION

District No.: 7C	County: Reagan	Purpose of Filing: <input checked="" type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: 0823DH	API No.:	
Total Lease Acres: 38,716.545	Drilling Permit No.:	
Lease Name: University Central	Lease No.: 17575	
Field Name: Lin (Wolfcamp)	Field No.: 53613750	

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

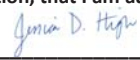
RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
17575	0801BH	H	University Central	383-37581	260	N	
17575	0807AH	H	University Central	383-37136	180	N	
17575	0812AH	H	University Central	383-37075	40	N	
17575	0812BH	H	University Central	383-37283	180	N	
17575	0812CH	H	University Central	383-37358	280	N	
17575	0812DH	H	University Central	383-37518	280	N	
17575	0813AH	H	University Central	383-37503	140	N	
17575	0824BH	H	University Central	383-38387	280	N	
17575	0824CH	H	University Central	383-38833	340	N	
17575	0824DH	H	University Central	383-38832	320	N	
17575	0824EH	H	University Central	383-39363	300	N	
17575	0824FH	H	University Central	383-39364	300	N	
17575	0824GH	H	University Central	383-39365	300	N	
17575	0824HH	H	University Central	383-39480	300	N	
17575	0824IH	H	University Central	383-39481	300	N	
17575	0824JH	H	University Central	383-39643	180	N	
17575	0824KH	H	University Central	383-39644	180	N	

Total Well Count >	17	4160	< A. Total Assigned Horiz. Acreage	4160	< C. Total Assigned Acreage
		34556.545	< Total Remaining Horiz. Acreage	34556.545	< 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: 2 (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.

 Digitally signed by Jessica D. High DN: cn=Jessica D. High, o=EP Energy EP Company, L.P., ou=Regulatory, email=jessica.high@epenergy.com, c=US	Jessica High, Regulatory Analyst II	jessica.high@epenergy.com
Signature	Name and title (type or print)	Email (include email address only if you affirmatively consent to its public release)

P.O. Box 4660, Houston, TX 77210-4660	(713) 997-6632	02/22/17
Address	City, State, Zip Code	Tel: Area Code Number Date: mo. day yr.



RAILROAD COMMISSION OF TEXAS

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

Form P-16
Attachment
Page 1A
Rev. 01/2016

Acreage Designation Attachment

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 (CONTINUED). 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							
RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
17575	0824LH	H	University Central	383-39645	180	N	
17575	0824MH	H	University Central	383-39646	180	N	
17575	0824NH	H	University Central	383-39650	180	N	
17575	0810AH	H	University Central	383-39687	180	N	
17575	0824OH	H	University Central	383-39651	180	N	
17575	0824PH	H	University Central	383-39652	180	N	
17575	0824QH	H	University Central	383-39654	180	N	
17575	0824RH	H	University Central	383-39653	180	N	
17575	0829BH	H	University Central	383-38871	320	N	
17575	0829CH	H	University Central	383-38872	280	N	
17575	1115AH	H	University Central	383-38412	180	N	
17575	1115AV	V	University Central	383-38398	40	N	
17575	1115BH	H	University Central	383-38414	180	N	
17575	1115CH	H	University Central	383-38413	180	N	
17575	1115DH	H	University Central	383-38418	260	N	
17575	1115EH	H	University Central	383-38415	180	N	
17575	1115FH	H	University Central	383-38738	280	N	
17575	1115GH	H	University Central	383-38739	300	N	
17575	1115HH	H	University Central	383-38740	300	N	
17575	1118AH	H	University Central	383-37137	280	N	
17575	1122AV	V	University Central	383-34840	0	N	
17575	1123AH	H	University Central	383-38837	180	N	
17575	1123BH	H	University Central	383-38838	180	N	
17575	1123CH	H	University Central	383-38839	180	N	
17575	1123DH	H	University Central	383-38840	180	N	
17575	1123EH	H	University Central	383-38841	180	N	
17575	1123FH	H	University Central	383-38842	180	N	
17575	1125AH	H	University Central	383-38649	280	N	
17575	1125BH	H	University Central	383-38650	280	N	
17575	1125CH	H	University Central	383-38651	0	N	
17575	1125DH	H	University Central	383-38652	260	N	
17575	1125EH	H	University Central	383-38543	280	N	
17575	1125FH	H	University Central	383-38654	280	N	
17575	1125GH	H	University Central	383-38763	0	N	
17575	1125HH	H	University Central	383-38766	0	N	
17575	1125IH	H	University Central	383-38771	0	N	
17575	1125JH	H	University Central	383-38770	180	N	
17575	1125KH	H	University Central	383-38769	180	N	
17575	1125LH	H	University Central	383-38767	180	N	
Total Well Count >		39	< A. Total Assigned Horiz. Acreage		6960	< C. Total Assigned Acreage	
		31796.545	< Total Remaining Horiz. Acreage		31756.545	< Total Remaining Acreage	
		40	< B. Total Assigned Vert./Dir. Acreage				
		38676.545	< Total Remaining Vert./Dir. Acreage				

(SEE ADDITIONAL PAGE 1A.2)



RAILROAD COMMISSION OF TEXAS

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Form P-16

Attachment

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Acreage Designation Attachment

Page 3

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 (CONTINUED). 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							
RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
17575	1126AH	H	University Central	383-38744	180	N	
17575	1126BH	H	University Central	383-38745	180	N	
17575	1126CH	H	University Central	383-38746	180	N	
17575	1126DH	H	University Central	383-38741	180	N	
17575	1126EH	H	University Central	383-38742	180	N	
17575	1126FH	H	University Central	383-38743	180	N	
17575	1130AV	V	University Central	383-38280	40	N	
17575	1135AH	H	University Central	383-38885	180	N	
17575	1135BH	H	University Central	383-38886	180	N	
17575	1135CH	H	University Central	383-38888	180	N	
17575	1135DH	H	University Central	383-38891	180	N	
17575	1135EH	H	University Central	383-38893	180	N	
17575	1135FH	H	University Central	383-38894	180	N	
17575	0112AH	H	University Central	383-39679	180	N	
17575	0112BH	H	University Central	383-39681	180	N	
17575	0112CH	H	University Central	383-39682	180	N	
17575	0112DH	H	University Central	383-39683	180	N	
17575	0112EH	H	University Central	383-39717	180	N	
17575	0112FH	H	University Central	383-39718	180	N	
17575	0112GH	H	University Central	383-39719	180	N	
17575	0112HH	H	University Central	383-39720	180	N	
17575	0112IH	H	University Central	383-39721	180	N	
17575	0112JH	H	University Central	383-39722	180	N	
17575	0112KH	H	University Central	383-39723	180	N	
17575	0810BH	H	University Central	383-39731	180	N	
17575	0810CH	H	University Central	383-39732	180	N	
17575	0112LH	H	University Central	383-39737	180	N	
17575	0112MH	H	University Central	383-39738	180	N	
17575	0112NH	H	University Central	383-39739	180	N	
17575	0112OH	H	University Central	383-39740	180	N	
17575	0823AH	H	University Central	Pending	180	N	
17575	0823BH	H	University Central	Pending	180	N	
17575	0823CH	H	University Central	Pending	180	N	
17575	0823DH	H	University Central	Pending	180	N	
Total Well Count >	90	17020	< A. Total Assigned Horiz. Acreage		17100	< C. Total Assigned Acreage	
		22876.545	< Total Remaining Horiz. Acreage		22056.545	< Total Remaining Acreage	
		80	< B. Total Assigned Vert./Dir. Acreage				
		38636.545	< Total Remaining Vert./Dir. Acreage				

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 08 March 2017**GAU Number:** 167962**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: 0823FH
Total Vertical Depth: 8999
Latitude: 31.165809
Longitude: -101.649113
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U158; Block-8; Section-23

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 a depth of 750 feet must be protected.

This recommendation is applicable for all wells drilled in this sec. 23.

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 02/23/2017. 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 (BHL Sec. 23)
 Latitude: 31.165988° N
 Longitude: 101.849830° W
 X=1587488.36
 Y=550351.49
 Elev.=2045'
 2037' FNL & 1216' FWL

NAD 27, Central Zone 4203
 Surface Hole Location (BHL Sec. 23)
 Latitude: 31.165812° N
 Longitude: 101.849240° W
 X=1588445.45
 Y=547850.81
 Elev.=2045'
 2037' FNL & 1216' FWL

Point of Penetration (PP Sec. 23)
 Latitude: 31.165831° N
 Longitude: 101.849139° W
 X=1588477.13
 Y=547057.33
 2037' FNL & 1248' FWL

First Take Point (FTP Sec. 23)
 Latitude: 31.165834° N
 Longitude: 101.849140° W
 X=1588476.10
 Y=547007.37
 2137' FNL & 1248' FWL

Last Take Point (LTP Sec. 26)
 Latitude: 31.142720° N
 Longitude: 101.849372° W
 X=1588304.74
 Y=539253.30
 100' FSL & 1248' FWL

Bottom Hole Location (BHL Sec. 26)
 Latitude: 31.142583° N
 Longitude: 101.849374° W
 X=1588303.71
 Y=539203.31
 50' FSL & 1248' FWL

Unit Boundary Distance	
BHL	8488' FSL & 4062' FWL
PP	8505' FSL & 4031' FWL
FTP	8456' FSL & 4031' FWL
LTP	100' FSL & 11873' FWL
BHL	92' FSL & 11873' FWL

EP ENERGY E&P COMPANY, L.P.
 UNIVERSITY CENTRAL OILFIELD
 38,716.545 ACRES (DALLAS)

UNIVERSITY LAND
 BLOCK 08



EP ENERGY

Well Name
 UNIVERSITY CENTRAL 0823DH
 Drilling Field
 LIN (WOLF CAMP) FIELD
 Nearest Town
 11.42 MILES SOUTHWEST OF BIG LAKE, TEXAS

NOTE: This Plat does not, in any way represent a "Boundary Survey", and does not comply with the current T.S.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. Jaggers do hereby certify that the above described well location was surveyed on the ground under my supervision, as shown.

Damian M. Jaggers 2/20/2017
 DAMIAN M. JAGGERS DATE
 REGISTERED PROFESSIONAL LAND SURVEYOR
 TEXAS REGISTRATION NO. 6289



EP ENERGY E&P COMPANY, L.P.

University Central 0823DH
 Block 8, Section 23
 Block 8, Section 26
 Reagan County, Texas

