



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 12/18/2017  
Tracking No.: 173075

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.: 42-383-39687 County: REAGAN  
Well No.: 0810AH RRC District No.: 7C  
Lease Name: UNIVERSITY CENTRAL Field Name: LIN (WOLFCAMP)  
RRC Lease No.: 17575 Field No.: 53613750  
Location: Section: 10, Block: 08, Survey: UNIVERSITY LANDS, Abstract:  
  
Latitude: Longitude:  
This well is located 9.91 miles in a WEST  
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: 12/26/2016  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	11/09/2016	818421
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 09/28/2016	Date of first production after rig released: 12/26/2016
Date plug back, deepening, recompletion, or drilling operation commenced: 07/28/2016	Date plug back, deepening, recompletion, or drilling operation ended: 10/26/2016
Number of producing wells on this lease in this field (reservoir) including this well: 52	Distance to nearest well in lease & reservoir (ft.): 383.0
Total number of acres in lease: 38716.54	Elevation (ft.): 2832 GL
Total depth TVD (ft.): 7868	Total depth MD (ft.): 18672
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): 191.0
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: None	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 5551.0 Feet from the North Line and 13346.0 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
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PACKET: N/A

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination		Depth (ft.): 975.0	Date: 09/14/2016
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of test: 03/07/2017		Production method: Flowing	
Number of hours tested: 24		Choke size: 64	
Was swab used during this test? No		Oil produced prior to test: 8958.00	
PRODUCTION DURING TEST PERIOD:			
Oil (BBLS): 869.00		Gas (MCF): 338	
Gas - Oil Ratio: 388		Flowing Tubing Pressure: 2539.00	
Water (BBLS): 1852			
CALCULATED 24-HOUR RATE			
Oil (BBLS): 869.0		Gas (MCF): 338	
Oil Gravity - API - 60.: 40.3		Casing Pressure: 189.00	
Water (BBLS): 1852			

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	1170			CLASS C/POZ AND C	665	1387.0	0	Circulated to Surface
3	Conventional Production	5 1/2	8 3/4	18652			C/POZ AND H/POZ	2650	4534.0	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.)
1	2 7/8	8028	
		Packer Depth (ft.)/Type	
		8017 / AS1-X	

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8379	18552.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		If yes, actuation pressure (PSIG): 8399.0	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 8500		Actual maximum pressure (PSIG) during hydraulic fracturing: 8302	
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)	8379	18552
2	Other	540 SACKS, CLASS H	8685	10068
3	Other	540 SACKS, CLASS H	7260	8685
4	Other	315 SACKS, CLASS H	6453	7260
5	Other	220 SACKS, CLASS C	5015	5715
6	Other	155 SACKS, CLASS C	3023	3408
7	Other	160 SACKS, CLASS C	843	1250

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	3055.4	3057.0	Yes	LOGGED	
QUEEN	Yes	2680.4	2680.6	Yes	LOGGED	
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY	Yes	3274.2	3276.9	Yes	LOGGED	
CLEARFORK	Yes	5324.3	5350.6	Yes	LOGGED	
SPRABERRY	Yes	6139.0	6180.7	Yes	ESTIMATED	
WOLFCAMP	Yes	7646.0	7701.7	Yes	PRODUCING	
STRAWN	No			No	NOT ENCOUNTERED	
FUSSELMAN	No			No	NOT ENCOUNTERED	
ELLENBURGER	No			No	NOT ENCOUNTERED	
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
UNIVERSITY CENTRAL 08-10 AH. KOP 7605.

RRC REMARKS	
<b>PUBLIC COMMENTS:</b> [RRC Staff 2017-09-19 11:12:36.039] EDL=10210 feet, max acres=400, LIN (WOLFCAMP) oil well	
<b>CASING RECORD :</b>	
<b>TUBING RECORD:</b>	
<b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b>	
<b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b>	
<b>POTENTIAL TEST DATA:</b>	

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Patricia Infante	<b>Title:</b> Associate Analyst
<b>Telephone No.:</b> (713) 997-5041	<b>Date Certified:</b> 12/06/2017





# 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 Cementing LLC

Cementer P-5 No.: 169789

### WELL INFORMATION

District No.: 7C

County: Reagan

Well No.: 08104V

API No.: 42-383-39687

Drilling Permit No.: 818421

Lease Name: University Central

Lease No.: 17575

Field Name: Lin (Wolfcamp)

Field No.: 53613750

### I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☒ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.): 12-1/4"

Depth of drilled hole (ft.): 1,175'

Est. % wash-out or hole enlargement: 100%

Size of casing in O.D. (in.): 9-5/8"

Casing weight (lbs/ft) and grade: 40# & 36# J-55

No. of centralizers used: 10

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☒ YES ☐ NO If no for surface casing, explain in Remarks.

Setting depth shoe (ft.):  
1,170' (5' RKB)

Top of liner (ft.):

Setting depth liner (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.): 0' (Surface)

Cementing date: 9/28/2016

### SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	510	CLASS C/POZ	SEE REMARKS	1178	3761.52
2	155	CLASS C	SEE REMARKS	209.25	610.8
3					
Total	665			1387.25	4372.32

### II. CASING CEMENTING DATA

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

Drilled hole size (in.):

Depth of drilled hole (ft.):

Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.):

Casing weight (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? ☐ YES ☐ 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: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ 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? ☐ YES ☐ 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					



**University Central 0810AV - Surface Casing W-15**

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 85% POZ15% BENTONITE, C-45, C-41, SALT, KOL SEAL, PHENOSEAL	TAIL CLASS C 100% C-45, SALT

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**

**COMPASS**

Name and title of cementer's representative

Cementing Company

Signature

1930 SOUTH US HWY 277 SONORA TX, 76950

325-387-2940

9/28/16

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.

**Wes White**

**Wellsite Supervisor**

Typed or printed name of operator's representative

Title

Signature

P.O. Box 4660, Houston, TX 77210-4660

713-997-1160

9/28/16

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.



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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 Service Llc.	Cementer P-5 No.:

WELL INFORMATION	
District No.: 7C	County: REAGAN
Well No.: 0810AH	API No.: 42-383-39687
Lease Name: UNIVERSITY CENTRAL	Drilling Permit No.: 818421
Field Name: LIN (WOLFCAMP)	Lease No.: 17575
	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 3/4 & 8 1/2		Depth of drilled hole (ft.): 18672.03'		Est. % wash-out or hole enlargement: 0%	
Size of casing in O.D. (in.): 5 1/2		Casing weight (lbs/ft) and grade: 17# HCP-110		No. of centralizers used: 86	
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.): 18652'		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 0' Surface		Cementing date: 12/26/16	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	700	C/POZ	SEE REMARKS	1960	7672.15
2	1950	H/POZ	SEE REMARKS	2574	11118.93
3					
Total	2650			4534	18791.08

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% BENTONITE, C-45, C-47B, CITRIC ACID, CSA-1000, KOL SEAL, GYPSEAL.	TAIL CLASS H 50% POZ 50% C-20, C-47B, CSA-1000.

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	Compass Cementing Services LLC.			
Name and title of cementer's representative	Cementing Company			Signature
1930 South US Hwy 277	Sonora Texas, 76950	325-387-2940	12/26/16	
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	Site Supervisor			
Typed or printed name of operator's representative	Title			Signature
P.O. Box 154	Houston Tx 77001	713-445-1205	12/26/2016	
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.  
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- 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.
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- 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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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 LLC	Cementer P-5 No.: 169789

WELL INFORMATION

District No.: 7C	County: Reagan	
Well No.: 0810AV	API No.: 42-383-39687	Drilling Permit No.: 818421
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 type="checkbox"/> Production					
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):		Casing weight (lbs/ft) and grade:		No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.			Setting depth shoe (ft.):		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

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	10/14/16	10/14/16	10/14/16	10/14/16	10/14/16	10/15/16	
Size of hole or pipe (in.)	8.75	8.75	8.75	8.75	8.75	8.75 & 8.92	
Depth to bottom of tubing or drill pipe (ft.)	10,065	8,640	7,256	5,712	3,408	1,258	
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used	540	540	315	220	155	160	
Slurry volume pumped (cu. ft.)	577	577	336	292	209	222	
Calculated top of plug (ft.)	8,682	7,257	6,450	5,012	2,907	744	
Measured top of plug, if tagged (ft.)					3,020	840	
Slurry weight (lbs/gal)	16.4	16.4	16.4	14.8	14.8	14.8	
Class/type of cement	Class H	Class H	Class H	Class C	Class C	Class C	
Perforate and squeeze (YES/NO)	No	No	No	No	No	No	

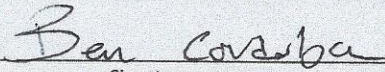
REMARKS

Class H #1, #2 & #3: C-37, C-20, C-41P. Class C #4: C-20. Class C #5: NaCl. Class C #6: NaCl, Calcium Chloride.

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.

Ben Cordoba

Compass Cemeting LLC



Name and title of cementer's representative

Cementing Company

Signature

1930 SOUTH US HWY 277 SONORA TX, 76950

325-387-2940

10/15/16

Address

City, State, Zip Code

Tel: Area Code

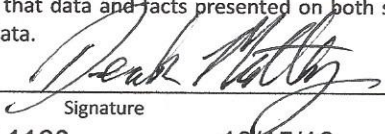
Number

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.

Derek Motley

Wellsite Supervisor



Typed or printed name of operator's representative

Title

Signature

P.O. Box 4660, Houston, TX 77210-4660

713-997-1160

10/15/16

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.: 173075

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: 12/26/2016
Field Name LIN (WOLFCAMP)	Drilling Permit No. 818421	
Lease Name UNIVERSITY CENTRAL	Lease/ID No. 17575	Well No. 0810AH
County REAGAN	API No. 42- 383-39687	

## 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). \_\_\_\_\_

Patricia Infante

Signature

EP ENERGY E&amp;P COMPANY, L.P.

Name (print)

Associate Analyst

Title

(713) 997-5041

Phone

12/14/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-





# Gamma Log

MD  
1":100'

Company: EP Energy E&P Company  
Well Name: University Central 810 AH  
API: 42-383-39687  
County/Parish: Reagan County  
State/Prov: Texas  
Country: USA  
Job #: B0057

Company: EP Energy E&P Company  
Well Name: University Central 810 AH  
API: 42-383-39687  
County/Parish: Reagan County  
State or Prov: Texas  
Country: USA  
Job number: B0057  
Field: Wolfcamp Shale  
Rig Identification: Nabors F-34  
Survey Company: Nabors Drilling Solutions  
MWD Operator 1 David Foley  
MWD Operator 2 Remote Operating Center  
Geologist Lauren Robinson  
Drilling Engineer Ryan Williams  
Coordinates N: 544321.530 E: 1579482.710

Log measurements: GR, ROP	Depth	Date
Depth measured from: Drill Floor - 30 ft	Start: 6485 ft	12/17/2016
Maximum temperature: 170 F	End: 18672 ft	12/24/2016

Casing	Depth	Size	Mud type: Oil based	Elevations
Surface:	1200 ft	9 5/8"	Density: 8.7 ppg	KBX: 962.00 ft
Intermediate:			Viscosity: 56	DF: 30 ft
			Rm: Rmf: Rmc:	GL: 2932.00 ft

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	8 3/4"	60.00 ft	61.00 ft	6485 ft	7307 ft	12/17/2016	12/18/2016
2	8 3/4"	59.00 ft	60.00 ft	7307 ft	8375 ft	12/18/2016	12/20/2016
3	8 1/2"	57.00 ft	58.00 ft	8375 ft	18672 ft	12/20/2016	12/24/2016
4							
5							
6							
7							
8							
9							
10							

Tracking #173075



# 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: PO BOX 4660 HOUSTON, TEXAS 77210	

### SECTION II. WELL INFORMATION

District No.: 7C	County: REAGAN	Purpose of Filing: <input type="checkbox"/> Drilling Permit Application (Form W-1) <input checked="" type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: ALL WELLS	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	4238337581	200	N	
17575	0812AH	H	UNIVERSITY CENTRAL	4238337075	200	N	
17575	0812BH	H	UNIVERSITY CENTRAL	4238337283	200	N	
17575	0812CH	H	UNIVERSITY CENTRAL	4238337358	200	N	
17575	0812DH	H	UNIVERSITY CENTRAL	4238337518	200	N	
17575	0813AH	H	UNIVERSITY CENTRAL	4238337503	200	N	
17575	0824BH	H	UNIVERSITY CENTRAL	4238338387	200	N	
17575	0824CH	H	UNIVERSITY CENTRAL	4238338833	200	N	
17575	0824DH	H	UNIVERSITY CENTRAL	4238338832	200	N	
17575	0824EH	H	UNIVERSITY CENTRAL	4238339363	200	N	
17575	0824FH	H	UNIVERSITY CENTRAL	4238339364	200	N	
17575	0824GH	H	UNIVERSITY CENTRAL	4238339365	200	N	
17575	0824HH	H	UNIVERSITY CENTRAL	4238339480	200	N	
17575	0824IH	H	UNIVERSITY CENTRAL	4238339481	200	N	
17575	0829BH	H	UNIVERSITY CENTRAL	4238338871	200	N	
17575	0829CH	H	UNIVERSITY CENTRAL	4238338872	200	N	
17575	0112AH	H	UNIVERSITY CENTRAL	4238339679	200	N	

Total Well Count >	67	15000	< A. Total Assigned Horiz. Acreage	13400	< C. Total Assigned Acreage
		25916.545	< Total Remaining Horiz. Acreage	25316.545	< Total Remaining Acreage
		600	< B. Total Assigned Vert./Dir. Acreage		
		38116.545	< Total Remaining Vert./Dir. Acreage		

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

Attach Additional Pages As Needed. ☐ No additional pages ☒ Additional Pages: 1 (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	ASSOCIATE ANALYST Name and title (type or print)	rita.martinez@epenergy.com Email (include email address only if you affirmatively consent to its public release)
--	---	---

PO BOX 4660 HOUSTON, TX 77210	713-997-6212	06/28/17
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	1115AV	V	UNIVERSITY CENTRAL	4238338398	200	N	
17575	1115BH	H	UNIVERSITY CENTRAL	4238338414	200	N	
17575	1115CH	H	UNIVERSITY CENTRAL	4238338413	200	N	
17575	1115DH	H	UNIVERSITY CENTRAL	4238338418	200	N	
17575	1115EH	H	UNIVERSITY CENTRAL	4238338415	200	N	
17575	1115FH	H	UNIVERSITY CENTRAL	4238338738	200	N	
17575	1115GH	H	UNIVERSITY CENTRAL	4238338739	200	N	
17575	1115HH	H	UNIVERSITY CENTRAL	4238338740	200	N	
17575	1118AH	H	UNIVERSITY CENTRAL	4238337137	200	N	
17575	1122AV	V	UNIVERSITY CENTRAL	4238338400	200	N	
17575	1125AH	H	UNIVERSITY CENTRAL	4238338649	200	N	
17575	1125BH	H	UNIVERSITY CENTRAL	4238338650	200	N	
17575	1125CH	H	UNIVERSITY CENTRAL	4238338651	200	N	
17575	1125DH	H	UNIVERSITY CENTRAL	4238338652	200	N	
17575	1125EH	H	UNIVERSITY CENTRAL	4238338653	200	N	
17575	1125FH	H	UNIVERSITY CENTRAL	4238338654	200	N	
17575	1125GH	H	UNIVERSITY CENTRAL	4238338763	200	N	
17575	1125HH	H	UNIVERSITY CENTRAL	4238338766	200	N	
17575	1125IH	H	UNIVERSITY CENTRAL	4238338771	200	N	
17575	1130AV	V	UNIVERSITY CENTRAL	4238338280	200	N	
17575	1135AH	H	UNIVERSITY CENTRAL	4238338885	200	N	
17575	1135BH	H	UNIVERSITY CENTRAL	4238338886	200	N	
17575	1135CH	H	UNIVERSITY CENTRAL	4238338888	200	N	
17575	1135DH	H	UNIVERSITY CENTRAL	4238338891	200	N	
17575	1135EH	H	UNIVERSITY CENTRAL	4238338893	200	N	
17575	1135FH	H	UNIVERSITY CENTRAL	4238338894	200	N	
17575	0824JH	H	UNIVERSITY CENTRAL	4238339643	200	N	
17575	0824KH	H	UNIVERSITY CENTRAL	4238339644	200	N	
17575	0824LH	H	UNIVERSITY CENTRAL	4238339645	200	N	
17575	0824MH	H	UNIVERSITY CENTRAL	4238339646	200	N	
17575	0824NH	H	UNIVERSITY CENTRAL	4238339650	200	N	
17575	0824OH	H	UNIVERSITY CENTRAL	4238339651	200	N	
17575	0824PH	H	UNIVERSITY CENTRAL	4238339652	200	N	
17575	0824QH	H	UNIVERSITY CENTRAL	4238339654	200	N	
17575	0824RH	H	UNIVERSITY CENTRAL	4238339653	200	N	
17575	0810AH	H	UNIVERSITY CENTRAL	4238339687	200	N	
17575	0810BH	H	UNIVERSITY CENTRAL	4238339731	200	N	
17575	0810CH	H	UNIVERSITY CENTRAL	4238339732	200	N	
17575	0112AH	H	UNIVERSITY CENTRAL	4238339679	200	N	
Total Well Count >		67	< A. Total Assigned Horiz. Acreage		13400	< C. Total Assigned Acreage	
		25916.545	< Total Remaining Horiz. Acreage		25316.545	< Total Remaining Acreage	
		600	< B. Total Assigned Vert./Dir. Acreage				
		38116.545	< Total Remaining Vert./Dir. Acreage				



Total Well Count >	67	15000	< A. Total Assigned Horiz. Acreage	13400	< C. Total Assigned Acreage
		25916.545	< Total Remaining Horiz. Acreage	25316.545	< Total Remaining Acreage
	600		< B. Total Assigned Vert./Dir. Acreage		
	38116.545		< Total Remaining Vert./Dir. Acreage		

## GROUNDWATER PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

**Date Issued:** 14 September 2016**GAU Number:** 160124**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:** 0810AV  
**Total Vertical Depth:** 10000  
**Latitude:** 31.199819  
**Longitude:** -101.627165  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-8; Section-10

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 975 feet must be protected.

Please send Gamma Ray/Porosity log of this well when it is available.

This recommendation is applicable to all wells within a radius of 200 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 09/14/2016. 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

NAD 83, Central Zone 4203

Surface Hole Location (SHL Sec. 10)  
Latitude: 31.199972° N  
Longitude: 101.827584° W  
X=1591983.84  
Y=56032514.01  
Elev.=2832  
247' FNL & 2546' FWL

NAD 27, Central Zone 4203

Surface Hole Location (SHL Sec. 10)  
Latitude: 31.199819° N  
Longitude: 101.827165° W  
X=1591983.82  
Y=56032526  
Elev.=2832  
247' FNL & 2546' FWL

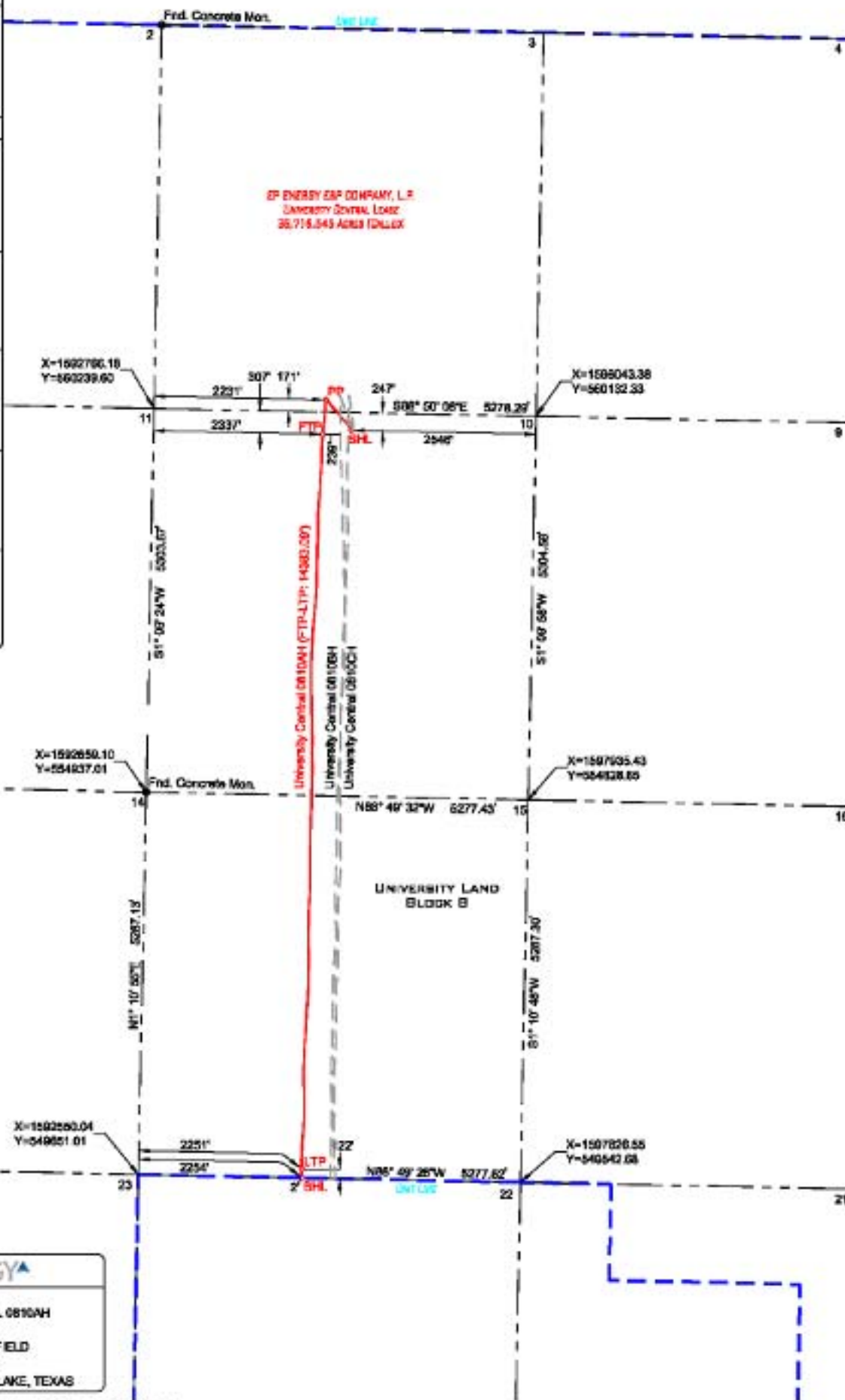
Point of Penetration (PP Sec. 3)  
Latitude: 31.203977° N  
Longitude: 101.828310° W  
X=1591983.84  
Y=56032640  
171' FSL & 2231' FWL

First Take Point (FTP Sec. 10)  
Latitude: 31.199883° N  
Longitude: 101.828432° W  
X=1591983.83  
Y=56032522  
307' FNL & 2337' FWL

Last Take Point (LTP Sec. 15)  
Latitude: 31.171728° N  
Longitude: 101.828891° W  
X=1591983.28  
Y=56032727.13  
122' FSL & 2251' FWL

Bottom Hole Location (BHL Sec. 15)  
Latitude: 31.171396° N  
Longitude: 101.828895° W  
X=1591983.83  
Y=56032721  
2' FSL & 2254' FWL

Unit Boundary Distances	
SHL	5551' FNL & 13048' FWL
PP	5133' FNL & 10317' FWL
FTP	5611' FNL & 12950' FWL
LTP	122' FSL & 12855' FWL
BHL	2' FSL & 12855' FWL



EP ENERGY

Well Name  
UNIVERSITY CENTRAL 0810AH  
Drilling Field  
LIN (WOLF CAMP) FIELD  
Nearest Town  
9.91 MILES WEST OF BIG LAKE, TEXAS

NOTE: This Plat does not, in any way 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 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* 4/6/2017  
DATE  
DAMIAN M. JAGERS  
REGISTERED PROFESSIONAL LAND SURVEYOR  
TEXAS REGISTRATION NO. 6289



AS DRILLED PLAT  
FOR  
EP ENERGY E&P COMPANY, L.P.

University Central 0810AH  
Block 8, Section 3  
Block 8, Section 10  
Block 8, Section 15  
Reagan County, Texas