



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved  
Date: 12/21/2017  
Tracking No.: 181582

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

OPERATOR INFORMATION

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

WELL INFORMATION

API No.: 42-105-42363 County: CROCKETT  
Well No.: 3819JH RRC District No.: 7C  
Lease Name: UNIVERSITY STONEGATE Field Name: LIN (WOLFCAMP)  
RRC Lease No.: 17668 Field No.: 53613750  
Location: Section: 19, Block: 38, Survey: UL, Abstract:  
  
Latitude: Longitude:  
This well is located 8.57 miles in a SOUTHEAST  
direction from BARNHART,  
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential  
Type of completion: New Well  
Well Type: Producing Completion or Recompletion Date: 05/06/2017  

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	03/02/2017	823932
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 03/15/2017	Date of first production after rig released: 05/06/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 03/15/2017	Date plug back, deepening, recompletion, or drilling operation ended: 05/06/2017
Number of producing wells on this lease in this field (reservoir) including this well: 10	Distance to nearest well in lease & reservoir (ft.): 296.0
Total number of acres in lease: 14831.60	Elevation (ft.): 2619 GL
Total depth TVD (ft.): 5950	Total depth MD (ft.): 14097
Plug back depth TVD (ft.):	Plug back depth MD (ft.): 14038
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 63.0
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: 30.0 Feet from the South Line and 2250.0 Feet from the East Line of the UNIVERSITY STONEGATE 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.): 750.0	Date: 03/03/2017
SWR 13 Exception	Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 10/02/2017		Production method: Gas Lift
Number of hours tested: 24		Choke size: 64
Was swab used during this test?	No	Oil produced prior to test: 4583.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 494.00		Gas (MCF): 846
Gas - Oil Ratio: 1712		Flowing Tubing Pressure: 230.00
Water (BBLS): 1857		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 494.0		Gas (MCF): 846
Oil Gravity - API - 60.:	40.3	Casing Pressure: 969.00
Water (BBLS): 1857		

CASING RECORD											
		Casing	Hole	Setting	Multi -	Multi -		Cement	Slurry	Top of	TOC
Row	Type of	Size	Size	Depth	Stage Tool	Stage Shoe	Cement	Amount	Volume	Cement	Determined
	Casing	(in.)	(in.)	(ft.)	Depth (ft.)	Depth (ft.)	Class	(sacks)	(cu. ft.)	(ft.)	By
1	Surface	9 5/8	12 1/4	904			C/POZ; C	400	775.2	0	Calculation
2	Conventional Production	5 1/2	8 3/4	14088			C/POZ;H/P OZ	2035	3470.6	0	Calculation

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

TUBING RECORD			
<u>Row</u>	<u>Size (in.)</u>	<u>Depth Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
1	2 7/8	5976	5958 / EUE AS1-X

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 6288	13994.0

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): 8910.0	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		Actual maximum pressure (PSIG) during hydraulic fracturing:	
8500		8131	
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)	6288 13994

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>
QUEEN	Yes	987.6	987.6	Yes	TOPS PICKED FROM LOG
SAN ANDRES	Yes	1346.0	1347.4	Yes	TOPS PICKED FROM LOG
LEONARD	Yes	3350.3	3392.4	Yes	TOPS PICKED FROM LOG
WOLFCAMP	Yes	5650.7	5696.2	Yes	PRODUCING INTERVAL
CANYON	No			Yes	BELOW TOTAL DEPTH
STRAWN	No			Yes	BELOW TOTAL DEPTH
DEVONIAN	No			Yes	BELOW TOTAL DEPTH
ELLENBURGER	No			Yes	BELOW TOTAL DEPTH
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
<b>PUBLIC COMMENTS:</b> [RRC Staff 2017-10-30 12:09:24.782] Both strings of casing's cement was circulated to surface.
<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> Rita Martinez-Dean	<b>Title:</b> Associate Analyst
<b>Telephone No.:</b> (713) 997-6212	<b>Date Certified:</b> 10/27/2017





RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPORT

Form W-15

Rev. 08/2014

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

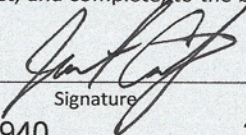
OPERATOR INFORMATION					
Operator Name: EP ENERGY E&P COMPANY, L.P.			Operator P-5 No.: 253385		
Cementer Name: COMPASS CEMENTING SERVICES LLC.			Cementer P-5 No.:		
WELL INFORMATION					
District No.: 7C		County: CROCKETT			
Well No.: 3819JH		API No.: 42-105-42263		Drilling Permit No.: 823932	
Lease Name: UNIVERSITY STONEGATE		Lease No.: 17668			
Field Name: LIN (WOLFCAMP)		Field No.: 53613750			
I. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 908		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.): 9 5/8		Casing weight (lbs/ft) and grade: 36# J-55		No. of centralizers used: 6	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.): 903.91'		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 0' SURFACE		Cementing date: 3/15/17	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	245	C/POZ	SEE REMARKS	565.95	1806.99
2	155	C	SEE REMARKS	209.25	604.05
3					
Total	400			775.2	2411.04
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:	
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:	
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:	
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:	
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 85% POZ 15% BENTONITE 5%, C-45 1.25%, C-41P .5%, 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
1930 S US HWY 277	SONORA TEXAS, 76950	325-387-2940	3/17/17
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	Site Supervisor	
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. 3/17/2017

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.





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.

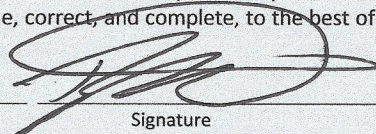
OPERATOR INFORMATION					
Operator Name: EP ENERGY E&P COMPANY, L.P.			Operator P-5 No.: 253385		
Cementer Name: COMPASS CEMENTING SERVICE LLC			Cementer P-5 No.: 169789		
WELL INFORMATION					
District No.: 7C		County: CROCKETT			
Well No.: 3819JH		API No.: 42-105-42263		Drilling Permit No.: 823932	
Lease Name: UNIVERSITY STONEGATE		Lease No.: 17668			
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 3/4" x 8 1/2"		Depth of drilled hole (ft.): 14,097		Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.): 5 1/2"		Casing weight (lbs/ft) and grade: 17# HCP 110		No. of centralizers used: 72	
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.): 14,088'		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.): 0' ( SURFACE )		Cementing date: 5-6-2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	530	C/POZ	SEE BELOW	1484	6212.14
2	1505	H/POZ	SEE BELOW	1986.6	7875.86
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.)		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 50/50 POZ 8% BENTONITE, .475%C45, .1% C47B, .3% CITRIC ACID, .1% CSA 1000, 5PPS KOL SEAL, 4 PPS GYSEAL, TAIL CLASS H 50/50 POZ C-478B .1%, .1% 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.

RYAN WEST	COMPASS	
Name and title of cementer's representative	Cementing Company	Signature
1930 US HWY 277	SONORA TX 76950 325-387-2940	05/06/2017
Address	City, State, Zip Code	Tel: Area Code Number Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

JOE WILKERSON	COMPANY REP	
Typed or printed name of operator's representative	Title	Signature
P O BOX 154	HOUSTON TX 77001 7139971205	05/06/2017
Address	City, State, Zip Code	Tel: Area Code Number Date: mo. day yr.

Instructions for Form W-15, Cementing Report

- NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.
- 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.: 181582

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: 05/06/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 823932	
Lease Name UNIVERSITY STONEGATE	Lease/ID No. 17668	Well No. 3819JH
County CROCKETT	API No. 42- 105-42363	

## 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&amp;P COMPANY, L.P.

Name (print)

Associate Analyst

Title

(713) 997-6212

Phone

10/24/2017

Date

-FOR RAILROAD COMMISSION USE ONLY-





# Gamma Log

MD  
1":100'

Company: EP Energy E&P Company  
Well Name: University Stonegate 3819 JH  
API: 42-105-42363  
County/Parish: Crockett County  
State/Prov: Texas  
Country: USA  
Job #: T2989

Company: EP Energy E&P Company  
Well Name: University Stonegate 3819 JH  
API: 42-105-42363  
County/Parish: Crockett County  
State or Prov: Texas  
Country: USA  
Job number: T2989  
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: 496624.510 E:1765136.860

Log measurements: GR, ROP	Depth	Date
Depth measured from: Drill Floor - 30 ft	Start: 933 ft	05/01/2017
Maximum temperature: 189 F	End: 14097 ft	05/05/2017

Casing	Depth	Size	Mud type: Oil based	Elevations
Surface:	933 ft	9 5/8"	Density: 9.3 ppg	KB2649.00 ft
Intermediate:			Viscosity: 57 sec/qt	DF: 30 ft
			Rm: Rmf: Rmc:	GL2619.00 ft

Run	Bit Size	Offsets		Depths		Dates	
		Gamma	Survey	Start	End	Start	End
1	8 3/4"	49.00 ft	50.00 ft	933 ft	3757 ft	05/01/2017	05/02/2017
2	8 3/4"	49.00 ft	50.00 ft	3757 ft	5594 ft	05/02/2017	05/03/2017
3	8 3/4"	51.00 ft	52.00 ft	5594 ft	6247 ft	05/03/2017	05/03/2017
4	8 1/2"	53.00 ft	54.00 ft	6247 ft	14097 ft	05/03/2017	05/05/2017
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

<b>Operator Name:</b>	<b>Operator P-5 No.:</b>
<b>Operator Address:</b>	

## SECTION II. WELL INFORMATION

District No.:	County:	<b>Purpose of Filing:</b> <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)

[illegible]

**Attach Additional Pages As Needed.**      ☐ No additional pages      ☐ Additional Pages: \_\_\_\_\_ (No. of additional pages)

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

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

Form GW-2

**Groundwater Advisory Unit****Date Issued:** 03 March 2017**GAU Number:** 168297**Attention:** EP ENERGY E&P COMPANY,  
ATTN JOSEPH ARAIZA  
HOUSTON, TX 77210**Operator No.:** 253385**API Number:**  
**County:** CROCKETT  
**Lease Name:** University Stonegate  
**Lease Number:** 17668  
**Well Number:** 3819FH  
**Total Vertical Depth:** 8999  
**Latitude:** 31.030735  
**Longitude:** -101.089209  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U261; Block-38; Section-19

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 of 750 feet.

This recommendation is applicable for all wells drilled in this sec. 19.

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 03/03/2017. 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. 19)  
Latitude: 31.000180° N  
Longitude: 101.003503° W  
X=1765183.85  
Y=486823.48  
Elev.=2619'  
30° FSL & 2250' FEL

NAD 27, Central Zone 4203

Surface Hole Location (SHL Sec. 19)  
Latitude: 31.000220° N  
Longitude: 101.003210° W  
X=1765136.86  
Y=486824.51  
Elev.=2619'  
30° FSL & 2250' FEL

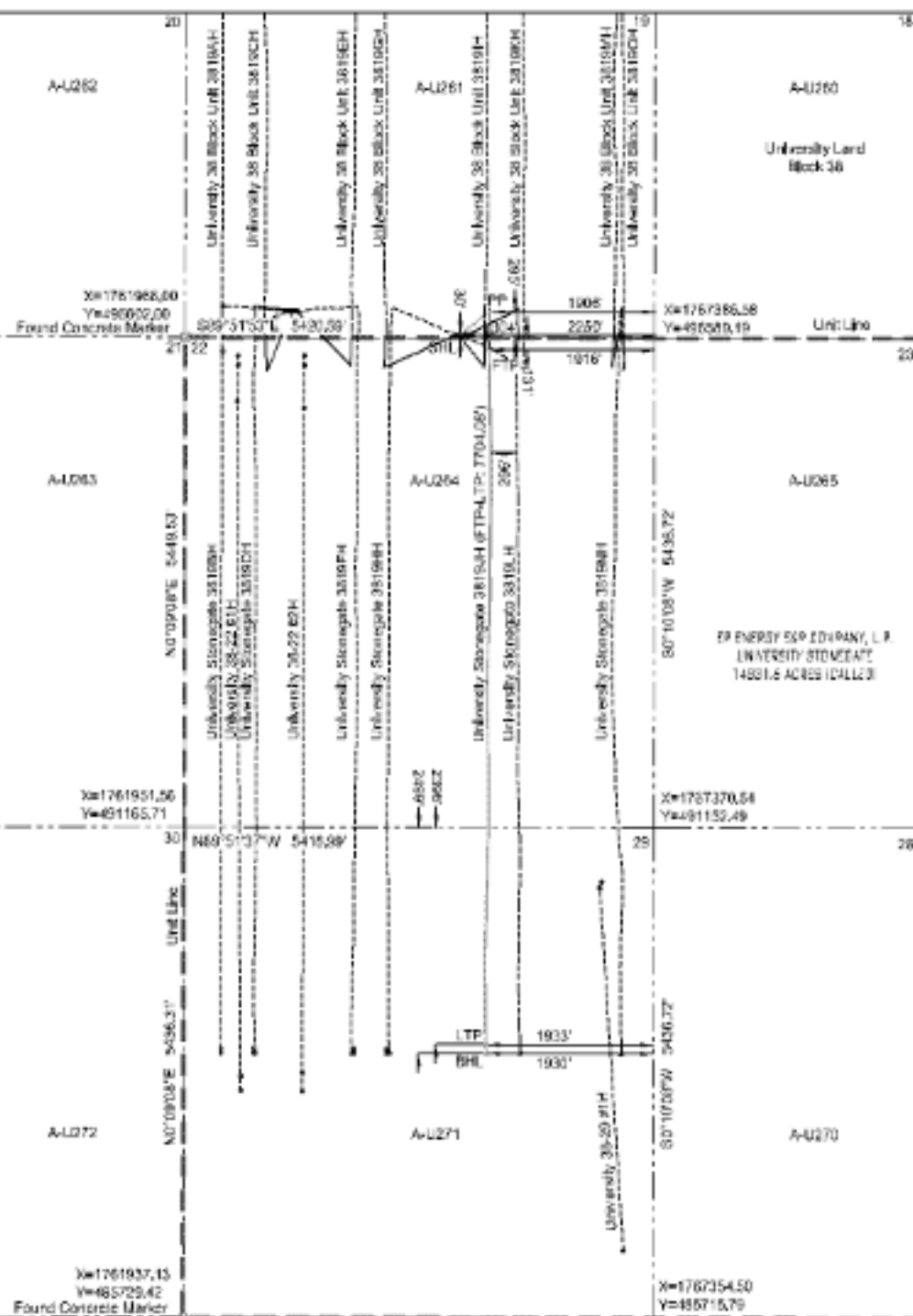
Point of Penetration (PP Sec. 19)  
Latitude: 31.000761° N  
Longitude: 101.002116° W  
X=1765461.26  
Y=486838.29  
MD=6,686.19'  
29.5° FSL & 1906' FEL

First Take Point (FTP Sec. 22)  
Latitude: 31.002890° N  
Longitude: 101.002141° W  
X=1765470.52  
Y=486842.58  
MD=6,288'  
13.1° FNL & 1616' FEL

Last Take Point (LTP Sec. 29)  
Latitude: 31.006414° N  
Longitude: 101.002103° W  
X=1765430.60  
Y=486761.15  
MD=13,094'  
24.50° FNL & 1928' FEL

Bottom Hole Location (BHL Sec. 29)  
Latitude: 31.006101° N  
Longitude: 101.002094° W  
X=1765432.72  
Y=486858.22  
MD=14,097'  
24.95° FNL & 1930' FEL

Unit Boundary Distance	
SHL	On Lease
PP	On Lease
FTP	13.1° FNL & 3925' FNL
LTP	20.41° FSL & 3485' FNL
BHL	29.37° FSL & 3485' FNL



**EP ENERGY**

Well Name  
UNIVERSITY STONEGATE 3819JH AS DRILLED

Drilling Field  
LIN (WOLF CAMP) FIELD

Nearest Town  
8.57 MILES SOUTHEAST OF BARNHART, TEXAS

NOTE: This Plot 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 Accuracies were furnished by others. The information contained on this plot is intended for the sole use of EP ENERGY E&P COMPANY, L.P.

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

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

*Damian M. Jagers* 9/27/2017  
DATE  
DAMIAN M. JAGERS  
REGISTERED PROFESSIONAL LAND SURVEYOR  
TEXAS REGISTRATION NO. 6269



EP ENERGY E&P COMPANY, L.P.  
EXHIBIT A-1

UNIVERSITY STONEGATE 3819JH  
AS DRILLED  
Block 38, Section 19  
Block 38, Section 22  
Block 38, Section 29  
Crockett County, Texas