



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 06/29/2018
Tracking No.: 193492

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

OPERATOR INFORMATION

Operator Name: FDL OPERATING, LLC Operator No.: 263924
Operator Address: ATTN ROBIN SWANNER PO BOX 472 JUDSON, TX 75660-0000

WELL INFORMATION

API No.: 42-383-38227 County: REAGAN
Well No.: 2702H RRC District No.: 7C
Lease Name: UNIVERSITY 10 Field Name: LIN (WOLFCAMP)
RRC Lease No.: 17844 Field No.: 53613750
Location: Section: 27, Block: 10, Survey: UL, Abstract: U233

Latitude: Longitude:
This well is located 4.59 miles in a NW
direction from BIG LAKE,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: Other/Recompletion
Well Type: Producing Completion or Recompletion Date: 12/20/2017

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	03/06/2017	823477
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 08/24/2013	Date of first production after rig released: 12/20/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 05/21/2017	Date plug back, deepening, recompletion, or drilling operation ended: 10/17/2017
Number of producing wells on this lease in this field (reservoir) including this well: 20	Distance to nearest well in lease & reservoir (ft.): 1320.0
Total number of acres in lease: 7906.26	Elevation (ft.): 2715 GL
Total depth TVD (ft.): 8230	Total depth MD (ft.): 16315
Plug back depth TVD (ft.):	Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 300.0
Recompletion or reclass? Yes	Is Cementing Affidavit (Form W-15) attached? No
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	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: 7564.0 Feet from the South Line and 6187.0 Feet from the East Line of the UNIVERSITY 10 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.): 700.0	Date: 02/12/2013
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION			
Date of test: 01/02/2018		Production method: Flowing	
Number of hours tested: 24		Choke size: 35	
Was swab used during this test? No		Oil produced prior to test: 4607.00	
PRODUCTION DURING TEST PERIOD:			
Oil (BBLS): 369.00		Gas (MCF): 306	
Gas - Oil Ratio: 829		Flowing Tubing Pressure: 540.00	
Water (BBLS): 800			
CALCULATED 24-HOUR RATE			
Oil (BBLS): 369.0		Gas (MCF): 306	
Oil Gravity - API - 60.: 52.0		Casing Pressure: 380.00	
Water (BBLS): 800			

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	814			C	820	1435.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	7524			H & C	840	1768.0	4484	Calculation
3	Intermediate	9 5/8	12 1/4	7524		4484	C	1530	3492.0	0	Circulated to Surface
4	Conventional Production	5 1/2	8 3/4	16317			H	2575	4509.0	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.)	Packer Depth (ft.)/Type
1	2 7/8	8262	8247 /

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8420	16205.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		No	
If yes, actuation pressure (PSIG):			
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		8000	
Actual maximum pressure (PSIG) during hydraulic fracturing:		7652	
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	338,622 BBLS SLICKWATER; 4,414,187# 100 MESH; 9,710,470# 40/70 SAND	8420 16205

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
YATES	Yes	1766.0	1766.0	Yes	ESTIMATED
SEVEN RIVERS	Yes	1919.0	1919.0	Yes	ESTIMATED
GRAYBURG	Yes	2585.0	2585.0	Yes	ESTIMATED
SAN ANDRES	Yes	2842.0	2842.0	Yes	ESTIMATED
SPRABERRY	Yes	5862.0	5862.0	Yes	ESTIMATED
WOLFCAMP	Yes	7415.0	7415.0	Yes	
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?					No
Is the completion being downhole commingled (SWR 10)?					No

REMARKS
KOP 7374'

RRC REMARKS	
PUBLIC COMMENTS: [RRC Staff 2018-06-20 14:28:02.718] W-15s are attached.	
CASING RECORD : SURFACE CASING SET 8/29/2013. SEE TRACKING #113044 FOR W15.	
TUBING RECORD:	
PRODUCING/INJECTION/DISPOSAL INTERVAL :	
ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :	
POTENTIAL TEST DATA:	

OPERATOR'S CERTIFICATION	
Printed Name: Robin Swanner	Title: Consulting Agent
Telephone No.: (903) 930-1532	Date Certified: 06/02/2018

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

TR. # 113044

1. Operator's Name (As shown on Form P-5, Organization Report) DEVON ENERGY Prod. Co., L.P.	2. RRC Operator No. 216378	3. RRC District No. 7C	4. County of Well Site REAGAN
5. Field Name (Wildcat or exactly as shown on RRC Records) LIN (Wolfcamp)		6. API No. 42-383-38227	7. Drilling Permit No. 756381
8. Lease Name UNIVERSITY 10	9. Rule 37 Case No.	10. Oil Lease/Gas ID No. 17844	11. Well No. 2702H

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		8/29/13					
13. • Drilled Hole Size		17 1/2"					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13 3/8"					
15. Top of liner (ft.)							
16. Setting depth (ft.)		814'					
17. Number of centralizers used		10					
18. Hrs. Waiting on cement before drill-out		8+					
1 st Slurry	19. API cement used: No. of sacks ▶	820					
	Class ▶	"C"					
	Additives ▶	#22					
2 nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶	1435					
	Height (ft.) ▶	2066					
2nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶	1435					
	Height (ft.) ▶	2066					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?		YES					

Remar LEAD;"C"+4%GEL+2%CACL2+.125 PPSCELLOFLAKE+.01% STATIC FREE. CIRCULATED 120 BBLS, 385 SACKS

TR #113044

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties 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.

LEVANDOWSKI, Service Supervisor

Name and title of cementer's representative

BAKER HUGHES

Cementing Company

Signature

P.O. Box 1135

Address

Eldorado

City,

Texas

State,

76936

Zip Code

(325) 853-2553

Tel: Area Code

Number

8/29/13

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.

Annette Raines

Typed or printed name of operator's representative

Sr. Reg. Specialist

Title

Annette Raines

Signature

333 W. Sheridan Ave.

Address

OKC

City,

OK

State,

73102

Zip Code

405-228-8217

Tel.: Area Code

Number

8/19/14

Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- 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. Form W-15 should be filed with the following.
- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates;
 - Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
 - Form W-3, Plugging Record, unless the 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. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.
- D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three foot below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, 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.

**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

Operator: Fill in other

OPERATOR INFORMATION

Operator Name: FDL Operating Operator P-5 No.: 263924
Cementer Name: Crest Pumping Technologies Cementer P-5 No.: 189898

WELL INFORMATION

District No.: 7C County: Reagan
Well No.: 2702H API No.: 42-383-38227 Drilling Permit No.: 823477
Lease Name: University 10 Lease No.: 17844
Field Name: Lin (Wolfcamp) Field No.: 53613750

I. CASING CEMENTING DATAType of Casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ 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? ☐ YES ☐ 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: 06/02/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
Total					

II. CASING CEMENTING DATAType of Casing: ☐ Surface ☒ Intermediate ☐ Production ☐ Tapered Production ☒ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.): 12 1/4 Depth of drilled hole (ft.): 7524 Est. % wash-out or hole enlargement: 20

Size of casing in O.D. (in.): 9 5/8 Casing weight (lbs/ft) and grade: 40# N80 No. of centralizers used: 61

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.): 7524
If no for surface casing, explain in Remarks.

Hrs. waiting on cement before drill-out: +/-12 Calculated top of cement (ft.): 4484 Cementing date: 06/02/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	630	Class H	See Remarks	1,518	4,847
2	210	Class C	See Remarks	250	798
Total	840			1,768	5,645

III. CASING CEMENTING DATAType of Casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered Production ☒ Multi-stage cement/DV Tool ☐ Multiple parallel strings

Drilled hole size (in.): 12 1/4 Depth of drilled hole (ft.): 7524 Est. % wash-out or hole enlargement: 20

Size of casing in O.D. (in.): 9 5/8 Casing weight (lbs/ft) and grade: 40# N80 No. of centralizers used: 61

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.): 4484
If no for surface casing, explain in Remarks.

Hrs. waiting on cement before drill-out: +/-12 Calculated top of cement (ft.): 0 Cementing date: 06/02/2017

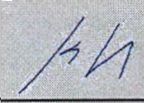
SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1370	Class C	See Remarks	3,302	10,543
2	160	Class C	See Remarks	190	607
Total	1,530			3,492	11,150

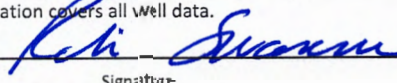
CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount 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							

5 bwow Sodium Chloride, 7 % Bentonite Gel, 0.5 % CPT-4, 1.5 % CPT-45, 0.4 % CPT-503P, 4 lbs/sk Kol Seal,
0.6 % CPT-16A, 0.3 % CD-3, 0.25 % CPT-503P, 0.1 % CPT-20A,
5 bwow Sodium Chloride, 7 % Bentonite Gel, 0.5 % CPT-4, 1.5 % CPT-45, 0.4 % CPT-503P, 4 lbs/sk Kol Seal,
0.6 % CPT-16A, 0.3 % CD-3, 0.25 % CPT-503P,

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.

James West/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company	Signature
P.O. Box 117 Jacksboro, TX 76458	940-567-3392	06/02/2017
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.

Robin Swanner - Consultant	
Typed or printed name of operator's representative	Signature
P.O. Box 472 Judson, TX 75660	903-930-1532
Address City, State, Zip Code	Tel: Area Code Number
	06/01/2018
	Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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

- What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission. To plug and abandon a well, operators must use only cements approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_loc=&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_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool, and Multi-stage cement shoe. The operator must
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

**RAILROAD COMMISSION OF TEXAS**

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

Cement: Fill in
Operator: Fill in other

OPERATOR INFORMATION					
Operator Name: FDL Energy			Operator P-5 No.: 263924		
Cement Name: Crest Pumping Technologies			Cement P-5 No.: 189898		
WELL INFORMATION					
District No.: 7C			County: Reagan		
Well No.: 2702H			API No.: 42-383-38227		Drilling Permit No.: 823477
Lease Name: University 10			Lease No.:		
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		Depth of drilled hole (ft.): 16317		Est. % wash-out or hole enlargement: 20	
Size of casing in O.D. (in.): 5 1/2		Casing weight (lbs/ft) and grade: 17# P110		No. of centralizers used: 80	
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.): 16317		Top of liner (ft.):
					Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: +/- 72		Calculated top of cement (ft.): 0		Cementing date: 10/16/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	925	Class H	See Remarks	1,869	7,399
2	1650	Class H	See Remarks	2,640	10,452
Total	2,575			4,509	17,851
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:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
If no for surface casing, explain in Remarks.					
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.)
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:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO				Setting depth shoe (ft.):	
If no for surface casing, explain in Remarks.					
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.)
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							

0.1 gal/bbl CPT-503L, 2 lb/bbl CFS-1, 119.49 lb/bbl Barite, 1 gal/bbl Plexaid 830L,
 5 bbow Sodium Chloride, 2 % Bentonite Gel, 1 % CPT-19, 0.4 % CPT-503P, 4 lbs/sk Kol Seal, 0.15 % CPT-20A,
 3 bbow Sodium Chloride, 1 % Bentonite Gel, 0.5 % CPT-19, 0.3 % CD-3, 0.25 % CPT-503P, 0.25 % CPT-20A,

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.

Roberto Garcia/Cementer	Crest Pumping Technologies	<i>Roberto Garcia</i>
Name and title of cementer's representative	Cementing Company	Signature

P.O. Box 117 Jacksboro, TX 76458	940-567-3392	10/16/2017
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.

Robin Swanner - Consultant	<i>Robin Swanner</i>
Typed or printed name of operator's representative	Signature

P.O. Box 472 Judson, TX 75660	903-930-1532	06/01/2018
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. and Multi-stage cement shoe. The operator must
- 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.: 193492

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: FDL OPERATING, LLC	District No. 7C	Completion Date: 12/20/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 823477	
Lease Name UNIVERSITY 10	Lease/ID No. 17844	Well No. 2702H
County REAGAN	API No. 42- 383-38227	

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). _____

Robin Swanner

Signature

Name (print)

Consulting Agent

Title

(903) 930-1532

Phone

06/01/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-



Integrity Directional Services

University 10 2702-ST01

Scale 2":100' - MD

10/15/2017 4:54 AM

Oper. Company: Fleur de Lis Energy

Well: University 10 2702 H

Field: Permian

Rig: Trinidad 101

Well ID: 42-383-38227

Job Number: TX17313FL

State: Texas

County: Reagan

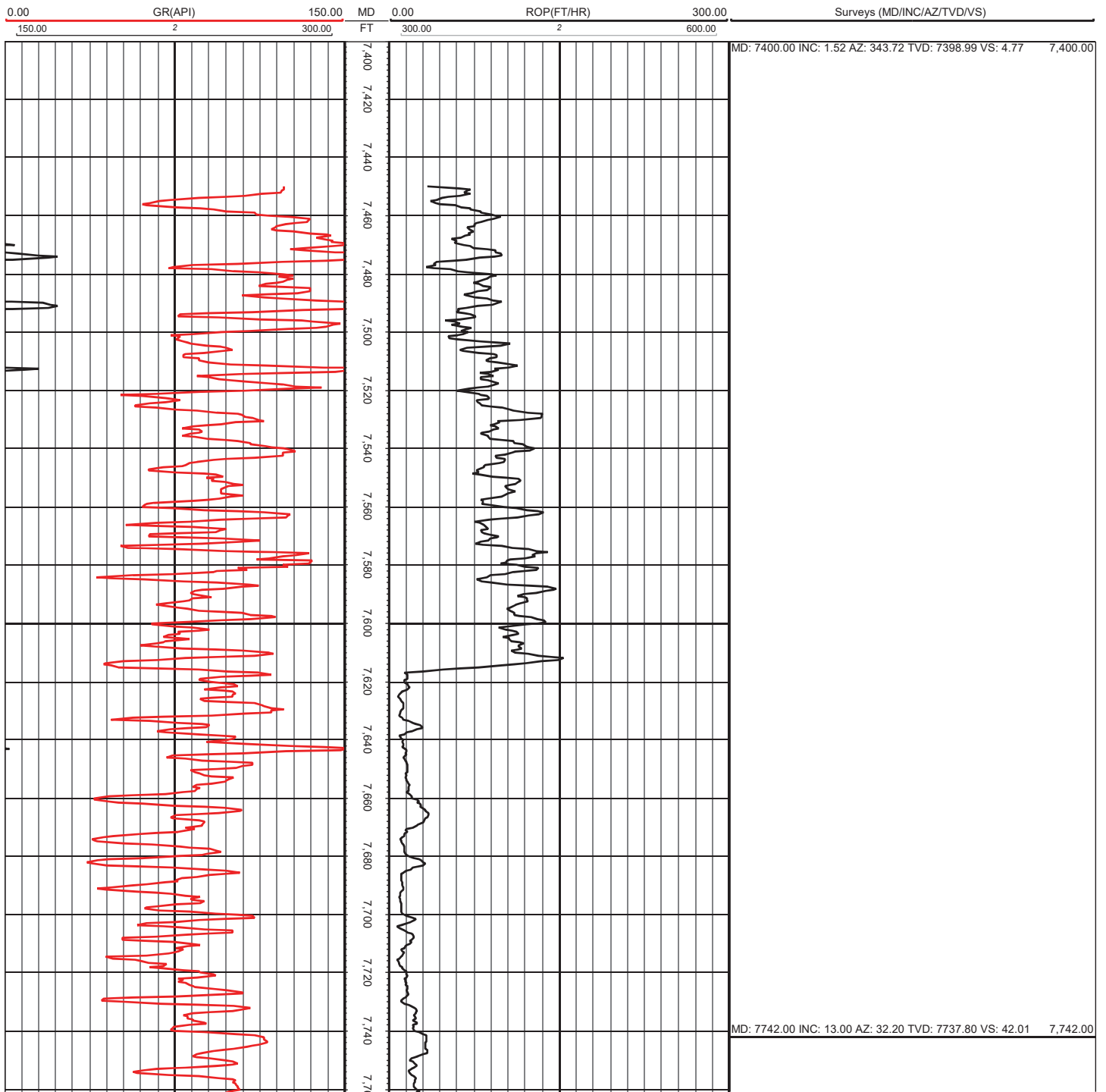
Country: USA

Location: Big Lake

Start Date: 10/05/2017 14:00:00

End Date:

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.



CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.

A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 193492

1. Field name exactly as shown on proration schedule LIN (WOLFCAMP)		2. Lease name as shown on proration schedule UNIVERSITY 10				
3. Current operator name exactly as shown on P-5 Organization Report FDL OPERATING, LLC		4. Operator P-5 no. 263924	5. Oil Lse/Gas ID no 17844	6. County REAGAN	7. RRC district 7C	
8. Operator address including city, state, and zip code ATTN ROBIN SWANNER PO BOX 472 JUDSON, TX 75660		9. Well no(s) (see instruction E) 2702H				
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date 12/20/2017		
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G)						
a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____						
-- OR --						
b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well <input type="checkbox"/> other well (specify) _____ Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)						
13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).						
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)		Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X		DCP OPERATING COMPANY, LP(195959)			100.0	
	X	COKINOS ENERGY, L.L.C.(167016)		0001	100.0	
14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).						
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)						Percent of Take
PLAINS PIPELINE L.P.(667884)						90.0
SHELL TRADING (US) COMPANY(774715)						10.0
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>06/29/2018</u>						
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.						
Name of Previous Operator				Signature		
Name (print)				<input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G)		
Title				Date		
				Phone with area code		
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.						
Name (print)				Signature		
<u>Consulting Agent</u>				<input type="checkbox"/> Authorized Employee of current operator <input checked="" type="checkbox"/> Authorized agent of current operator (see instruction G)		
Title				Date		
<u>robinswanner@sbcglobal.net</u>				<u>06/01/2018</u>		
E-mail Address (optional)				<u>(903) 930-1532</u> Phone with area code		



RAILROAD COMMISSION OF TEXAS

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

Form P-16

Page 1

Rev. 01/2016

Acreage Designation

SECTION I. OPERATOR INFORMATION

Operator Name: FDL Operating, LLC Operator P-5 No.: 263924
Operator Address: 909 Lake Carolyn Parkway, Suite 500 Irving, TX 75039

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.: 2702H	API No.: 38338227	
Total Lease Acres: 7906.26	Drilling Permit No.: 823477	
Lease Name: University 10	Lease No.: 17844	
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)
17844	2801HR	H	University 10	38337619	280	N	
17844	3601H	H	University 10	38337818	320	N	
17844	2802H	H	University 10	38337911	320	N	
17844	3602H	H	University 10	38338152	320	N	
17844	3603H	H	University 10	38338153	320	N	
17844	3604H	H	University 10	38338154	320	N	
17844	3605H	H	University 10	38338155	320	N	
17844	2803H	H	University 10	38338215	320	N	
17844	2804H	H	University 10	38338216	320	N	
17844	2805H	H	University 10	38338217	320	N	
17844	2806H	H	University 10	38338218	320	N	
17844	2807H	H	University 10	38338219	320	N	
17844	2808H	H	University 10	38338220	320	N	
17844	2701H	V	University 10	38338224	40	N	
17844	2703H	H	University 10	38338225	320	N	
17844	2704H	H	University 10	38338226	320	N	
17844	2702H	H	University 10	38338227	280	N	

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

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

Attach Additional Pages As Needed. ☐ No additional pages ☒ Additional Pages: 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

Robin Swanner - Consultant
Name and title (type or print)

robinswanner@sbcglobal.net
Email (include email address only if you affirmatively consent to its public release)

P.O. Box 472	Judson TX	75660	903	930-1532	06/01/2018
Address	City, State,	Zip Code	Tel: Area Code	Number	Date: mo. day yr.

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date February 12, 2013

GAU File No.: SC- 11285

***** EXPEDITED APPLICATION *****

API Number 38338224

Attention: ANNETTE RAINES

RRC Lease No. 000000

SC_216378_38338224_000000_11285.pdf

--Measured--

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY OK 73102

870 ft FEL
2235 ft FSL
MRL:SECTION

Digital Map Location:	
X-coord/Long	101.52051
Y-coord/Lat	31.23521
Datum	83
Zone	

P-5# 216378

County REAGAN

Lease & Well No. UNIVERSITY 10 #2701H&PAD

Purpose ND

Location SUR-UL, BLK-10, SEC-27, -- [TD=6800], [RRC 7C],

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Texas Railroad Commission recommends:

The interval from the land surface to a depth of 700 feet must be protected.

This recommendation is applicable to all wells drilled on this PAD.

University 10 #2702H

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,

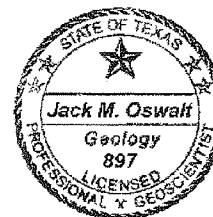


Digitally signed by Jack Oswalt
DN: c=US, st=TEXAS, l=Austin, o=Railroad
Commission of Texas, cn=Jack Oswalt,
email=jack.oswalt@rrc.state.tx.us
Date: 2013.02.12 13:12:18 -0600

Jack M. Oswalt, P.G.

Geologist, Groundwater Advisory Unit
Oil & Gas Division

GEOLOGIST SEAL



The seal appearing on this document was authorized by Jack M. Oswalt on 2/12/2013
Note: Alteration of this electronic document will invalidate the digital signature.

1

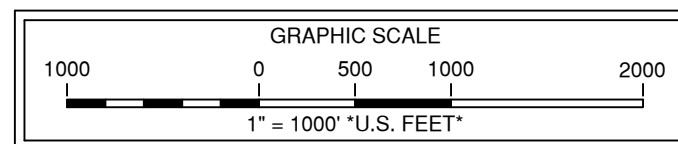
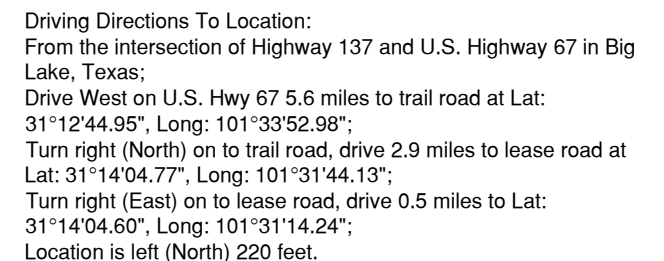


FOL OPERATING, LLC
University 10 42702-1 (First As-Orled)
2234 FROM SCUTLINE
811 FROM EAST LINE
of Section 27, Block 10
University 10 Lease
7908 26 Acres in Lease



Note: Well is located 4.7 miles North-west of the city of Big Lake, Texas.
 Note: Survey Reconstruction Bldg in the City of Ponder, 8 Markovs Land Surveyors, Inc.
 Note: Good takes shown herein are on The Texas Coordinate System of 1997, Central Zone
 Latitude and Longitude shown are on NAD83 Datum.
 Note: The drilling 25-dilled wells shown herein were not surveyed in the field. Their positions were supplied in the form of a Letter by FDL Operator.
 Note: Bearings and distances are based on The Texas Coordinate System of 1997, Central Zone.

Block 10, University Land Survey
Reagan County, Texas



March 12, 2018
180312M-BCL

Scale: 1" = 2000'



Note: Well is located 4.7 miles Northwest of the city of Big Lake, Texas.

Note: Survey Reconstruction filed in the Office of Pennell & Marlowe Land Surveyors, Inc.

Note: Coordinates shown herein are on The Texas Coordinate System of 1927, Central Zone.
Latitudes and Longitudes shown are on NAD'83 Datum.

Note: The existing as-drilled wells shown herein were not surveyed in the field. Their positions were supplied in the form of Lat/Longs by FDL Operating.

Note: Bearings and distances are based on The Texas Coordinate System of 1927, Central Zone.

Note: Example: (S-99999) indicates General Land Office file number.

Note: Well bore location determined from survey report provided by client.

Note: Location of surface hole is as-staked and was not re-surveyed for this plat.