



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 07/18/2018
Tracking No.: 188279

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.: 42-383-39908 County: REAGAN
Well No.: 10H RRC District No.: 7C
Lease Name: UNIVERSITY 9-31 Field Name: LIN (WOLFCAMP)
RRC Lease No.: 17728 Field No.: 53613750
Location: Section: 31, Block: 9, Survey: UNIVERSITY LANDS, Abstract:
Latitude: 31 Longitude: -101
This well is located 7 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: New Well
Well Type: Producing Completion or Recompletion Date: 12/18/2017
Type of Permit Date Permit No.
Permit to Drill, Plug Back, or Deepen 06/22/2017 827806
Rule 37 Exception
Fluid Injection Permit
O&G Waste Disposal Permit
Other:

COMPLETION INFORMATION

Spud date: 08/03/2017 Date of first production after rig released: 12/18/2017
Date plug back, deepening, recompletion, or drilling operation commenced: 08/03/2017 Date plug back, deepening, recompletion, or drilling operation ended: 09/27/2017
Number of producing wells on this lease in this field (reservoir) including this well: 11 Distance to nearest well in lease & reservoir (ft.): 60.0
Total number of acres in lease: 1935.30 Elevation (ft.): 2779 GL
Total depth TVD (ft.): 7643 Total depth MD (ft.): 15890
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): 211.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: Gamma Ray (MWD)
Electric Log Other Description:
Location of well, relative to nearest lease boundaries Off Lease : No
of lease on which this well is located: 7477.0 Feet from the South Line and
871.0 Feet from the East Line of the
UNIVERSITY 9-31 Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir Gas ID or Oil Lease No. Well No. Prior Service Type

PACKET: N/A

W2: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination **Depth (ft.):** 750.0 **Date:** 10/26/2012
SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 02/02/2018 **Production method:** Flowing
Number of hours tested: 24 **Choke size:** OPEN
Was swab used during this test? No **Oil produced prior to test:** 3129.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLs): 255.00 **Gas (MCF):** 171
Gas - Oil Ratio: 670 **Flowing Tubing Pressure:** 265.00
Water (BBLs): 2224

CALCULATED 24-HOUR RATE

Oil (BBLs): 255.0 **Gas (MCF):** 171
Oil Gravity - API - 60.: 48.2 **Casing Pressure:** 145.00
Water (BBLs): 2224

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	843			C	785	1225.0	0	Calculation
2	Intermediate	9 5/8	12 1/4	7190			C	1670	3635.0	2214	Calculation
3	Intermediate	9 5/8	12 1/4	7190		2214	C & H	655	1167.0	0	Calculation
4	Conventional Production	5 1/2	8 3/4	15890			H	2560	4470.0	0	Calculation

LINER RECORD

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

TUBING RECORD

Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	7486	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 8335	15859.0

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: 8500

Actual maximum pressure (PSIG) during hydraulic fracturing: 7390

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? Yes

<u>Row</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>	
1	Fracture	287140 BBLs SLICKWATER; 11786565# 100 MESH; 3988850# 40/70 SAND	8335	15859

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	2695.0	2695.0	Yes	ESTIMATED
QUEEN	Yes	2532.0	2532.0	Yes	ESTIMATED
SAN ANDRES - SALTWATER FLOW, POSSIBLY HEAVY CLEARFORK	Yes	3071.0	3071.0	Yes	ESTIMATED
SPRABERRY	Yes	6151.0	6151.0	Yes	ESTIMATED
WOLFCAMP	Yes	7717.0	7717.0	Yes	
STRAWN	No			No	NOT DRILLED TO DEPTH
FUSSELMAN	No			No	NOT DRILLED TO DEPTH
ELLENBURGER	No			No	NOT DRILLED TO 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

KOP 7340

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2018-04-12 08:35:03.445] Cement was circulated to ground surface.

CASING RECORD :

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

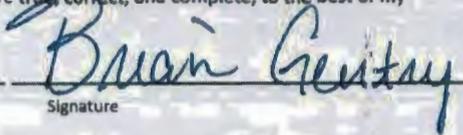
Telephone No.: (903) 930-1532

Date Certified: 04/10/2018

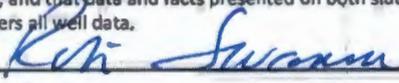
CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount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

2 % Calcium Chloride, 4 % Bentonite Gel, 0.4 % CPT-503P, 0.25 % Cellophane Flake,
2 % Calcium Chloride, 0.25 lbs/sk Cellophane Flake,

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.

Brian Gentry/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company	Signature
P.O. Box 117 Jacksboro, TX 76458	940-567-3392	08/05/2017
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	Title	Signature
P.O. Box 472 Judson, TX 75660	(903)930-1532	04/08/2018
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_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&tt=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=&tt=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 calliper 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.



RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

CEMENTING REPORT

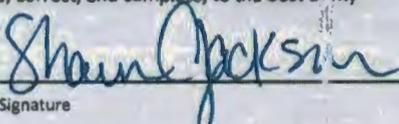
Cementer: Fill in
Operator: Fill in other

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.: 10H		API No.: 42-383-39908		Drilling Permit No.: 827806	
Lease Name: University 9-31			Lease No.: 17728		
Field Name: Lin (Wolfcamp)			Field No.: 536137500		
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: 08/14/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
Total					
II. CASING CEMENTING DATA					
Type of Casing: <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered Production <input checked="" type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 7190		Est. % wash-out or hole enlargement: 20	
Size of casing in O.D. (in.): 9 5/8		Casing weight (lbs/ft) and grade: 40# L-80		No. of centralizers used: 32	
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 checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.): 2214	
Hrs. waiting on cement before drill-out: 12		Calculated top of cement (ft.): 0		Cementing date: 08/16/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	320	Class H	See Remarks	768	2,452
2	335	Class C	See Remarks	399	1,274
Total	655			1,167	3,726
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 checked="" type="checkbox"/> Multi-stage cement/DV Tool <input type="checkbox"/> Multiple parallel strings					
Drilled hole size (in.): 12 1/4		Depth of drilled hole (ft.): 7190		Est. % wash-out or hole enlargement: 20	
Size of casing in O.D. (in.): 9 5/8		Casing weight (lbs/ft) and grade: 40# L-80		No. of centralizers used: 32	
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 checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.				Setting depth shoe (ft.): 7190	
Hrs. waiting on cement before drill-out: 12		Calculated top of cement (ft.): 2214		Cementing date: 08/16/2017	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1350	Class C	See Remarks	3,254	10,390
2	320	Class C	See Remarks	381	1,217
Total	1,670			3,635	11,607

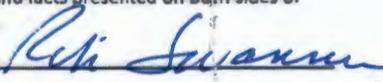
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	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
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Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of 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, 0.5 % CPT-19, 0.4 % CPT-503P, 4 lbs/sk Kol Seal, 0.1 % CPT-20A,
 3 bbow Sodium Chloride, 1 % Bentonite Gel, 0.5 % CPT-19, 0.1 % CD-3, 0.25 % CPT-503P, 0.15 % 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.

Shaun Jackson/Cementer Randy Herrera/Cementer	Crest Pumping Technologies	
Name and title of cementer's representative	Cementing Company	Signature
P.O. Box 117 Jacksboro, TX 76458	940-567-3392	09/26/2017
Address City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

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Robin Swanner - Consultant		
Typed or printed name of operator's representative	Title	Signature
P.O. Box 472 Judson, TX 75660	(903)930-1532	4/8/2018
Address City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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- To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SVR 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&ri=16](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&ri=16)), 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.
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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.

Tracking No.: 188279

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: 12/18/2017
Field Name LIN (WOLFCAMP)	Drilling Permit No. 827806	
Lease Name UNIVERSITY 9-31	Lease/ID No. 17728	Well No. 10H
County REAGAN	API No. 42- 383-39908	

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

Consulting Agent

Title

Name (print)

(903) 930-1532

Phone

02/28/2018

Date

-FOR RAILROAD COMMISSION USE ONLY-



Integrity Directional Services

6701 Corporation Pkwy #150
Fort Worth, TX. 76126
United States

(817) 731-8881

University 9-31 10H

Scale 2":100' - MD

9/24/2017 1:30 PM

Oper. Company: Fleur de Lis Energy, LLC.

Well: University 9-31 10H

Field: Permian Basin

Rig: Trinidad 101

Well ID: 42-383-39908

Job Number: TX17216FL

State: Texas

County: Reagan

Country: USA

Location: Big Lake

Start Date: 08/08/2017 08:00:00

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.

0.00	GR(API)	200.00	MD	0.00	ROP(FT/HR)	300.00	(MD/INC/AZ/TVD/VS)
200.00	2	400.00	FT	300.00	2	600.00	

			781				MD: 781.00 INC: 1.19 AZ: 346.87 TVD: 780.87 VS: 13.35
			800				
			820				
			840				
			860				MD: 862.00 INC: 1.30 AZ: 355.80 TVD: 861.85 VS: 15.10
			880				
			900				
			920				
			940				
			960				MD: 955.00 INC: 1.80 AZ: 335.80 TVD: 954.82 VS: 17.56
			980				
			1,000				
			1,020				
			1,040				MD: 1047.00 INC: 3.90 AZ: 288.30 TVD: 1046.71 VS: 20.37
			1,060				
			1,080				
			1,100				
			1,120				

**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.: 188279

1. Field name exactly as shown on proration schedule LIN (WOLFCAMP)		2. Lease name as shown on proration schedule UNIVERSITY 9-31					
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. 17728	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) 10H			11. Effective Date 12/18/2017		
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)					
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)						100.0	
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>07/18/2018</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		Phone with area code	
<u>robinswanner@sbcglobal.net</u>				<u>02/28/2018</u>		<u>(903) 930-1532</u>	
E-mail Address (optional)				Date		Phone with area code	

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date **October 26, 2012**

GAU File No.: SC- **11134**

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

API Number **38300000**

Attention: **JENNIFER JOHNSON**

RRC Lease No. **000000**

SC_216378_38300000_000000_11134.pdf

**DEVON ENERGY PRODUCTION CO L P
333 W SHERIDAN AVE
OKLAHOMA CITY OK 73102**

--Measured--

850 ft FEL

500 ft FNL

MRL:SECTION

P-5# 216378

Digital Map Location:	
X-coord/Long	101.57118
Y-coord/Lat	31.22808
Datum	83
Zone	

County **REAGAN**

Lease & Well No. **UNIVERSITY 9-31 #SH&PAD**

Purpose **MD**

Location **SUR-UL, BLK-9, SEC-31, --[TD=8165], [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 750 feet must be protected.

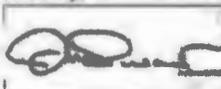
This recommendation is applicable to all wells drilled on this PAD.

University 9-31 #10H

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 natural drilling, production, and plugging operations only. It does not apply to wastewater disposal operation into a nonproductive zone (RRC Form 97-14).

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, ou=Austin, o=Railroad
Commission of Texas, cn=Jack Oswalt,
email=jack.oswalt@rrc.state.tx.us
Date: 2012.10.26 16:26:58 -0500

Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 10/26/2012
Note: Alteration of this electronic document will invalidate the digital signature.

Block 9, University Lands Survey Reagan County, Texas

Bottom Hole Location (BHL)

GRID N: (Y)578447.764
GRID E: (X)1611933.375
NAD'83 Lat/Long
Lat: +31°15'04.957"N
Lon: -101°34'32.312"W

Last Take Point (LTP)

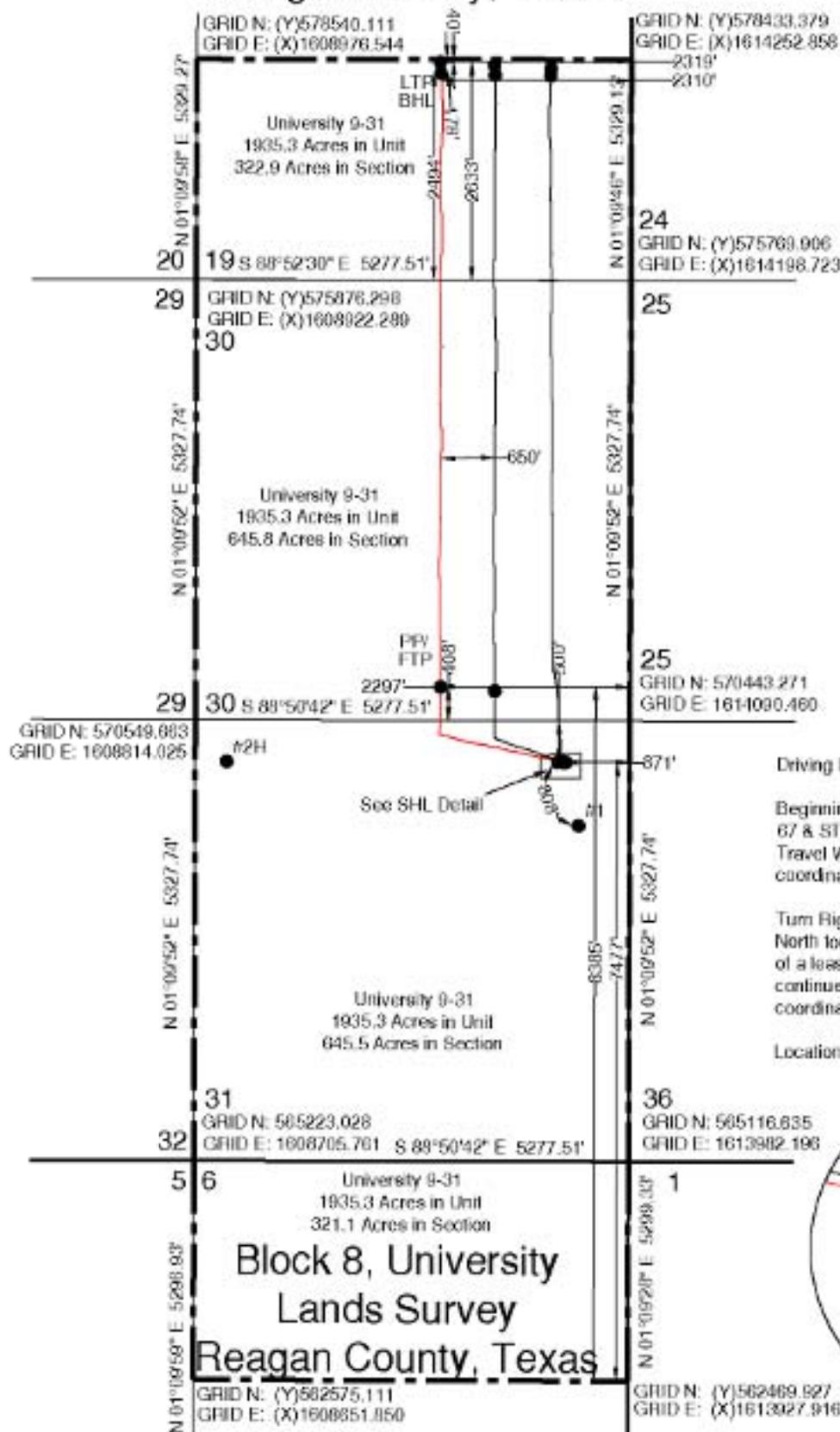
GRID N: (Y)578309.975
GRID E: (X)1611939.482
NAD'83 Lat/Long
Lat: +31°15'03.594"N
Lon: -101°34'32.224"W

Penetration Point (PP)/ First Take Point (FTP)

GRID N: (Y)570897.305
GRID E: (X)1611802.033
NAD'83 Lat/Long
Lat: +31°13'50.215"N
Lon: -101°34'32.854"W

Surface Hole Location (SHL)

GRID N: (Y)569961.137
GRID E: (X)1613209.982
NAD'83 Lat/Long
Lat: +31°13'41.105"N
Lon: -101°34'16.517"W

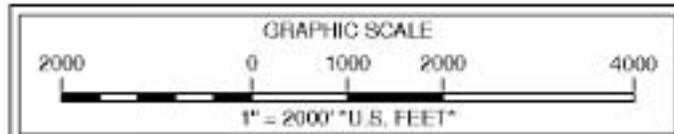
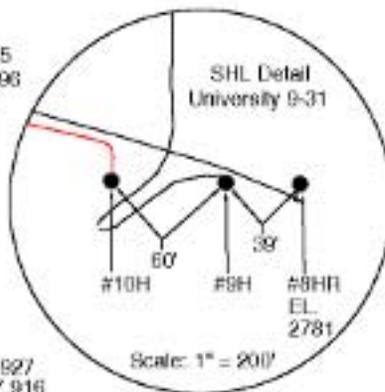


Driving Directions:

Beginning at the Intersection of US Highway 67 & ST Highway 137 in Big Lake, Texas, Travel West for 6.7 Miles to a lease road at coordinates 31°12'54.98" N, 101°34'39.02" N.

Turn Right (North) on lease road and travel North for 1/2 of a mile to the first intersection of a lease road to the right. Turn right (East) & continue for a total distance of 1 mile to coordinates 31°13'34.01" N, 101°34'16.75" W.

Location is 650.5 feet to the left (North).



WELL BORE LENGTHS	
SHL - PP/FTP	2075.16
PP/FTP - LTP	7415.40
LTP - BHL	137.93
SHL - BHL	9628.49

- Note: Well is located 7.0 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.
- 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.



Stephen P. Marlowe
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715

March 12, 2018
180312M3-BCL

P.O. Box 51887, Midland, Texas 79710 (432) 262-0901 Fax (432) 262-0679 Firm #100201-00

USGS Quadrangle Sheet: Best, Tex.
Railroad Commission Permit Flat
FDL OPERATING, LLC.
University 9-31 #10H (Final As-Drilled)
500' FROM NORTH LINE
871' FROM EAST LINE
University 9-31 Unit
1935.3 Acres (Called) in Unit Sections 19, 30
& 31, Block 9, &
Section 6, Block 8
University Lands Survey
Reagan County, Texas
Scale: 1" = 2000'