

API No. <u>42-383-38225</u> Drilling Permit # <u>823478</u> SWR Exception Case/Docket No. _____	<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>	<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>
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1. RRC Operator No. <b>263924</b>	2. Operator's Name (as shown on form P-5, Organization Report) <b>FDL OPERATING, LLC</b>	3. Operator Address (include street, city, state, zip): <b>SUITE 500</b> <b>909 LAKE CAROLYN PARKWAY</b> <b>IRVING, TX 75039-0000</b>
4. Lease Name <b>UNIVERSITY 10</b>		5. Well No. <b>2703H</b>

**GENERAL INFORMATION**

6. Purpose of filing (mark ALL appropriate boxes):				
<input type="checkbox"/> New Drill	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> Reclass	<input type="checkbox"/> Field Transfer	<input type="checkbox"/> Re-Enter
<input type="checkbox"/> Amended	<input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)			
7. Wellbore Profile (mark ALL appropriate boxes):				
<input type="checkbox"/> Vertical	<input checked="" type="checkbox"/> Horizontal (Also File Form W-1H)	<input type="checkbox"/> Directional (Also File Form W-1D)	<input type="checkbox"/> Sidetrack	
8. Total Depth <b>9000</b>	9. Do you have the right to develop the minerals under any right-of-way ? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

**SURFACE LOCATION AND ACREAGE INFORMATION**

11. RRC District No. <b>7C</b>	12. County <b>REAGAN</b>	13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore		
14. This well is to be located <u>4.85</u> miles in a <u>NW</u> direction from <u>Big Lake</u> which is the nearest town in the county of the well site.				
15. Section <b>27</b>	16. Block <b>10</b>	17. Survey <b>UL</b>	18. Abstract No. <b>A-U233</b>	19. Distance to nearest lease line: <b>100</b> ft.
20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>7906.26</b>				
21. Lease Perpendiculars: <u>7564</u> ft from the <u>S</u> line and <u>7905</u> ft from the <u>E</u> line.				
22. Survey Perpendiculars: <u>2234</u> ft from the <u>S</u> line and <u>2647</u> ft from the <u>W</u> line.				
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No: _____		
25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No				

**FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.**

26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	32. Number of Wells on this lease in this Reservoir
7C	53613750	LIN (WOLFCAMP)	Oil or Gas Well	9000	1316.00	20

**BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)**

<b>Remarks</b> [FILER Feb 19, 2017 9:01 AM]: Well was completed only to 855' for surface casing. Filing recompletion permit to complete to Lin (Wolfcamp) Field.; [RRC STAFF Feb 27, 2017 12:07 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Feb 27, 2017 12:27 PM]: Well count corrected to 20, to match P-16.; [RRC STAFF Feb 27, 2017 12:36 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Mar 2, 2017 5:41 PM]: Problems identified with this permit are resolved.	<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Robin Swanner, Consulting Agent</u> <u>Feb 19, 2017</u> Name of filer      Date submitted  <u>(903)9301532</u> <u>robinswanner@sbcglobal.net</u> Phone      E-mail Address (OPTIONAL)
<b>RRC Use Only</b> Data Validation Time Stamp:      Apr 3, 2017 12:15 PM( Current Version )	

**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION**

**Form W-1H** 07/2004  
**Supplemental Horizontal Well Information**

Permit Status: **Approved**  
*The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.*

**APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER**

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

Permit # **823478**  
Approved Date: **Mar 03, 2017**

1. RRC Operator No. <b>263924</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>FDL OPERATING, LLC</b>	3. Lease Name <b>UNIVERSITY 10</b>	4. Well No. <b>2703H</b>
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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)**

6. Section <b>22</b>	7. Block <b>10</b>	8. Survey <b>UL / A-U228</b>	9. Abstract	10. County of BHL <b>REAGAN</b>
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11. Terminus Lease Line Perpendiculars <b>100</b> ft. from the <b>n</b> line. and <b>8902</b> ft. from the <b>e</b> line
12. Terminus Survey Line Perpendiculars <b>100</b> ft. from the <b>n</b> line. and <b>1650</b> ft. from the <b>w</b> line
13. Penetration Point Lease Line Perpendiculars <b>7865</b> ft. from the <b>s</b> line. and <b>12206</b> ft. from the <b>w</b> line



**Railroad Commission of Texas**  
**Oil and Gas Division**  
**SWR #13 Formation Data**  
**REAGAN ( 383 ) COUNTY**

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
GRAYBURG	1500	2500		1	01/01/2014
QUEEN	1900	2500		2	01/01/2014
SAN ANDRES	2000	5000	saltwater flow, possibly heavy	3	01/01/2014
CLEARFORK	3300	4000		4	01/01/2014
SPRABERRY	3300	10000		5	01/01/2014
STRAWN	9300	10200		6	01/01/2014
FUSSELMAN	8800	11000		7	01/01/2014
ELLENBURGER	8700	10500		8	01/01/2014

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information. <http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

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 FFL**

**500 ft FNL**

**MRL:SECTION**

**P-5# 216378**

Digital Map Location:	
X-coord/Long	<b>101.57118</b>
Y-coord/Lat	<b>31.22808</b>
Datum	<b>83</b>
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.**

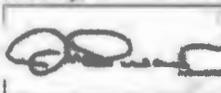
**This recommendation is applicable to all wells drilled on this PAD.**

*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](mailto:gau@rrc.state.tx.us), or by mail.

Sincerely,



Digitally signed by Jack Oswalt  
DN: cn=JA, o=TEXAS, ou=Austin, ou=Railroad  
Commission of Texas, c=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

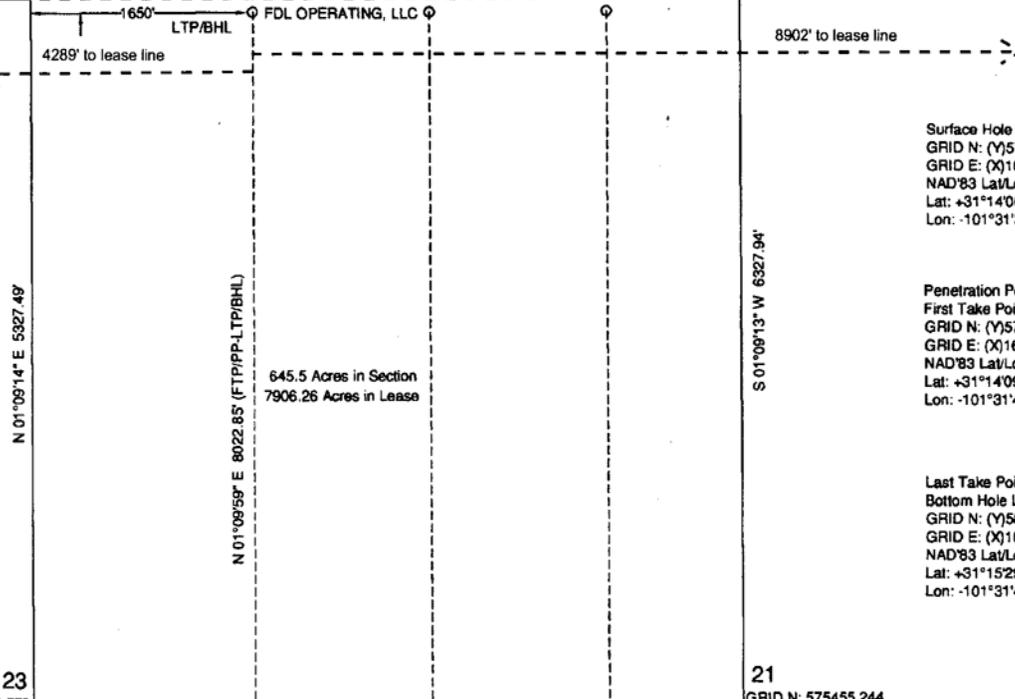
The seal appearing on this document was authorized by Jack M. Oswalt on 10/26/2012  
Note: Alteration of this electronic document will invalidate the digital signature.

# Block 10, University Land Survey Reagan County, Texas

14 GRID N: (Y) 580888.960  
GRID E: (X) 1624862.764

15 Lease Line

16 GRID N: 580782.102  
GRID E: 1630137.235



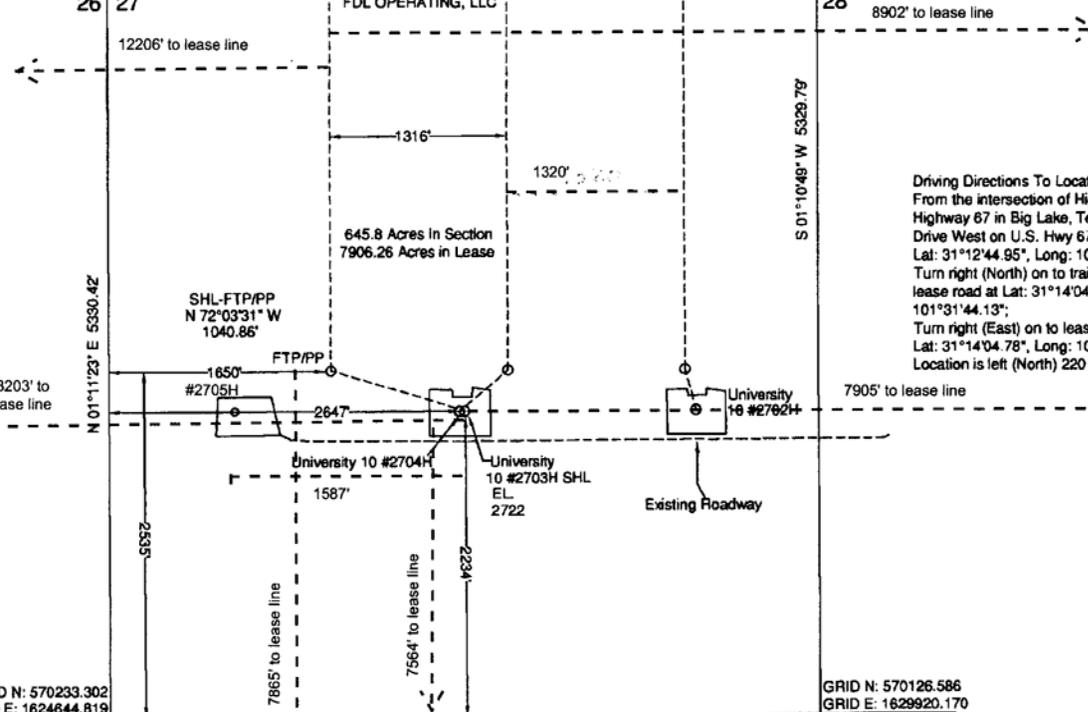
23 GRID N: (Y) 575562.573  
GRID E: (X) 1624755.489

22 S 88°50'03" E 5275.56'

21 GRID N: 575455.244  
GRID E: 1630029.959

26 27 FDL OPERATING, LLC

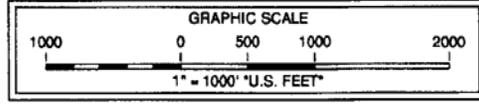
28 8902' to lease line



35 GRID N: 570233.302  
GRID E: 1624644.819

34 N 88°50'28" W 5276.43'

33 GRID N: 570126.586  
GRID E: 1629920.170



Note: Well is located 4.9 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: Bearings and distances are based on The Texas Coordinate System of 1927, Central Zone.  
 Note: Example: (S-99999) indicates General Land Office file number.

Revised: 02/07/2017-KRM  
 USGS Quadrangle Sheet: Gardener Draw, Tex.  
 USGS Quadrangle Sheet: Best, Tex.  
 Railroad Commission Permit Plat



*Stephen P. Marlowe*  
 REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715

January 26, 2017  
 170126JR1-NRL

FDL OPERATING, LLC  
 University 10 #2703H  
 2234' FROM SOUTH LINE  
 2647' FROM WEST LINE  
 Sections 22 & 27, Block 10  
 University Lands Survey  
 Reagan County, Texas

Scale: 1" = 1000'