

API No. <u>42-383-39829</u> Drilling Permit # <u>824235</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>				
1. RRC Operator No. <u>655836</u>	2. Operator's Name (as shown on form P-5, Organization Report) <b>PERMIAN RESOURCES, LLC</b>	3. Operator Address (include street, city, state, zip): <b>PO BOX 14670 OKLAHOMA CITY, OK 73113-0000</b>				
4. Lease Name <b>UNIVERSITY 11 RE</b>		5. Well No. <b>932HA</b>				
<b>GENERAL INFORMATION</b>						
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input 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 <u>9000</u>	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				
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>						
11. RRC District No. <u>7C</u>	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>2.97</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 <u>33</u>	16. Block <u>10</u>	17. Survey <u>UL</u>				
18. Abstract No. <u>A-U239</u>	19. Distance to nearest lease line: <u>100</u> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>3214.83</u>				
21. Lease Perpendiculars: <u>548</u> ft from the <u>SOUTH</u> line and <u>567</u> ft from the <u>EAST</u> line.		22. Survey Perpendiculars: <u>548</u> ft from the <u>SOUTH</u> line and <u>567</u> ft from the <u>EAST</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						
<b>FIELD INFORMATION</b> 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
<u>7C</u>	<u>53613750</u>	<u>LIN (WOLFCAMP)</u>	<u>Oil or Gas Well</u>	<u>9000</u>	<u>428.00</u>	<u>3</u>
<b>BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)</b>						
<b>Remarks</b> [RRC STAFF Mar 16, 2017 1:10 PM]: Changed BHL survey information to match RRC GIS.; [RRC STAFF Mar 16, 2017 1:15 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Mar 16, 2017 3:26 PM]: Problems identified with this permit are resolved.; [RRC STAFF Mar 16, 2017 3:27 PM]: Revised P16 attached.				<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Rian Hinds, Regulatory Technician</u> <u>Mar 08, 2017</u> Name of filer    Date submitted  <u>(405)9684451</u> <u>rian.hinds@permianresources.com</u> Phone    E-mail Address (OPTIONAL)		
<b>RRC Use Only</b> Data Validation Time Stamp: <u>Mar 20, 2017 7:39 AM( Current Version )</u>						

**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 # **824235**  
Approved Date: **Mar 17, 2017**

1. RRC Operator No. <b>655836</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>PERMIAN RESOURCES, LLC</b>	3. Lease Name <b>UNIVERSITY 11 RE</b>	4. Well No. <b>932HA</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>9</b>	7. Block <b>11</b>	8. Survey <b>UNIVERSITY LANDS</b>	9. Abstract	10. County of BHL <b>REAGAN</b>
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11. Terminus Lease Line Perpendiculars <b>15</b> ft. from the <b>south</b> line. and <b>986</b> ft. from the <b>east</b> line
12. Terminus Survey Line Perpendiculars <b>15</b> ft. from the <b>south</b> line. and <b>986</b> ft. from the <b>east</b> line
13. Penetration Point Lease Line Perpendiculars <b>15</b> ft. from the <b>north</b> line. and <b>985</b> ft. from the <b>east</b> line





**RAILROAD COMMISSION OF TEXAS  
OIL & GAS DIVISION  
SWR #13 Formation Data**

**REAGAN (383) County**

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
GRAYBURG	1,500	2,500		1	12/17/2013
QUEEN	1,900	2,500		2	12/17/2013
SAN ANDRES	2,000	5,000	saltwater flow, possibly heavy	3	12/17/2013
CLEARFORK	3,300	4,000		4	12/17/2013
SPRABERRY	3,300	10,000		5	12/17/2013
STRAWN	9,300	10,200		6	12/17/2013
FUSSELMAN	8,800	11,000		7	12/17/2013
ELLENBURGER	8,700	10,500		8	12/17/2013

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 PROTECTION DETERMINATION

Form GW-2



## Groundwater Advisory Unit

<b>Date Issued:</b>	17 March 2017	<b>GAU Number:</b>	169038
<b>Attention:</b>	PERMIAN RESOURCES, LLC PO BOX 14670 OKLAHOMA CITY, OK 73113	<b>API Number:</b>	38339829
<b>Operator No.:</b>	655836	<b>County:</b>	REAGAN
		<b>Lease Name:</b>	University 11 RE
		<b>Lease Number:</b>	
		<b>Well Number:</b>	932HA
		<b>Total Vertical Depth:</b>	9000
		<b>Latitude:</b>	31.215619
		<b>Longitude:</b>	-101.502487
		<b>Datum:</b>	NAD27

**Purpose:** New Drill  
**Location:** Survey-UL; Block-10; Section-33

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 the base of the Santa Rosa, which is estimated to occur at a depth between 800 and 850 feet, must be protected.

This recommendation is applicable for all wells drilled in this SE/4 of sec. 33.

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 03/16/2017. 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 27, Central Zone 4203  
 Surface Hole Location (Sec. 33)  
 Latitude: 31.215619° N  
 Longitude: 101.502487° W  
 X=1634531.51  
 Y=565251.81  
 Elev.=2666'  
 548' FSL & 567' FEL

Point of Penetration (Sec. 4)  
 Latitude: 31.214081° N  
 Longitude: 101.503842° W  
 X=1634102.21  
 Y=564696.83  
 15' FNL & 985' FEL

First Take Point (Sec. 4)  
 Latitude: 31.213847° N  
 Longitude: 101.503844° W  
 X=1634100.48  
 Y=564611.85  
 100' FNL & 985' FEL

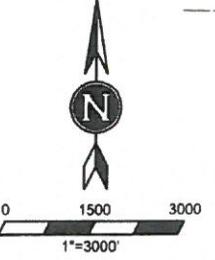
Last Take Point (Sec. 9)  
 Latitude: 31.185251° N  
 Longitude: 101.504172° W  
 X=1633886.82  
 Y=554213.19  
 100' FSL & 986' FEL

Bottom Hole Location (Sec. 9)  
 Latitude: 31.185017° N  
 Longitude: 101.504175° W  
 X=1633886.88  
 Y=554128.20  
 15' FSL & 986' FEL

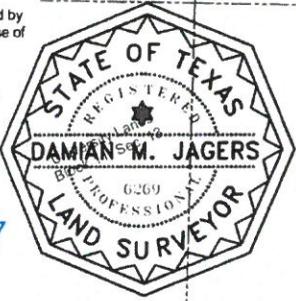
Unit Boundary Distance	
SHL	Out Of Unit
PP	15' FNL & 985' FEL
FTP	100' FNL & 985' FEL
LTP	100' FSL & 986' FEL
BHL	15' FSL & 986' FEL

**PERMIAN RESOURCES**

Well Name  
 UNIVERSITY 11 RE 932HA  
 Drilling Field  
 LIN (WOLFCAMP) FIELD  
 Nearest Town  
 2.97 MILES NORTHWEST OF BIG LAKE, TEXAS



Tract	Lessor	Called Acreage	% of Total
1	University Lands	320.3750 Acres	9.9656
2	University Lands	641.5000 Acres	19.9544
3	University Lands	641.5000 Acres	19.9544
4	University Lands	641.5000 Acres	19.9544
5	University Lands	641.5000 Acres	19.9544
6	University Lands	328.4500 Acres	10.2168
Total		3214.8250 Acres	100.0000

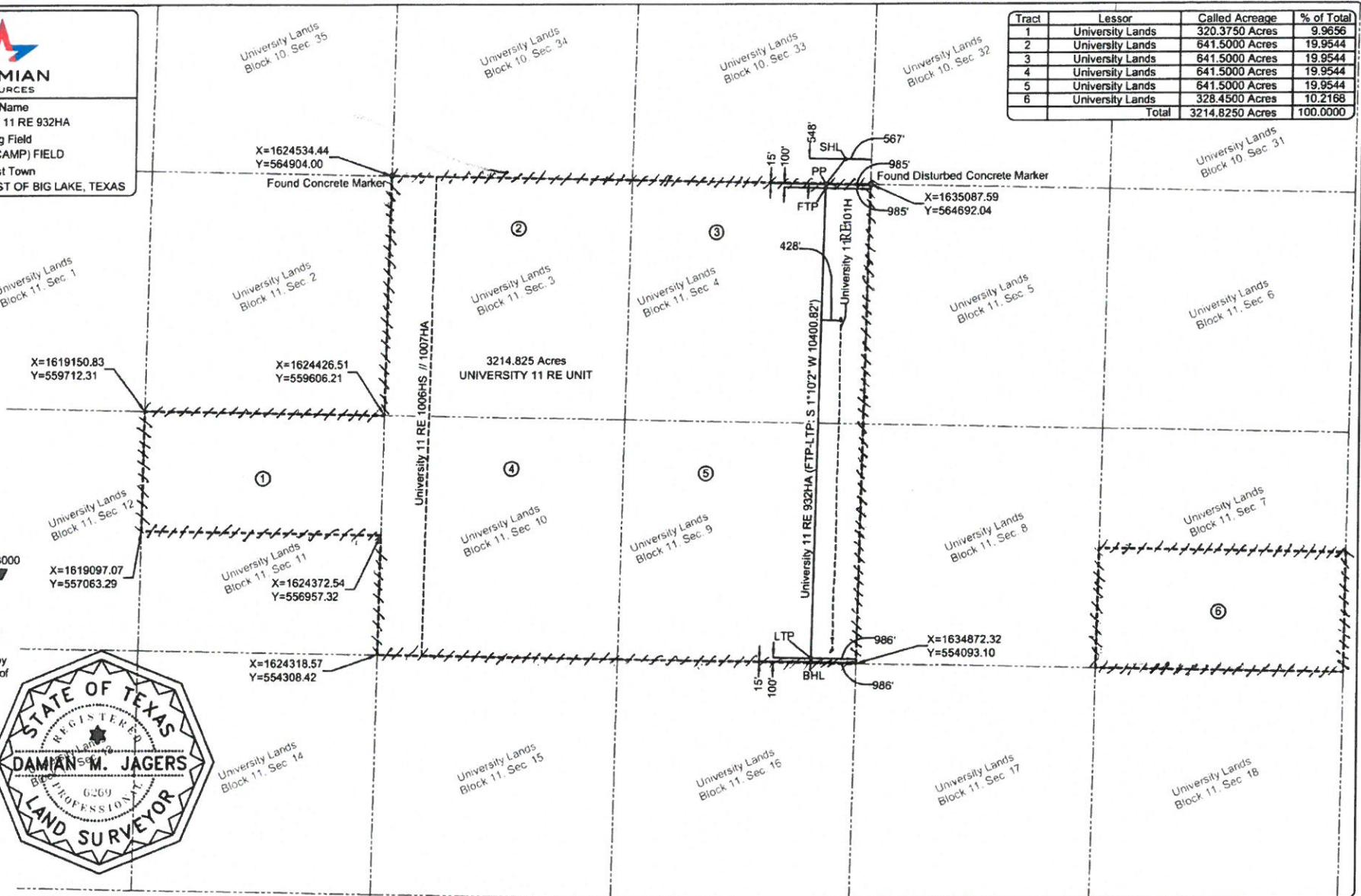


NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Acreage shown herein were furnished by others. The information contained on this plat is intended for the sole use of PERMIAN RESOURCES, LLC.

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* 1/18/2017  
 DATE  
 Damian M. Jagers  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 TEXAS REGISTRATION NO. 6269



Draft Date	12-13-16
Drawn By	D. Jagers
Revised By	-----
Reviewed By	B. Weisinger

Well Plat  
 For  
 Permian Resources, LLC

University 11 RE 932HA  
 University Lands Block 11, Section 4  
 University Lands Block 11, Section 9  
 University Lands Block 11, Section 3  
 University Lands Block 11, Section 15  
 University Lands Block 11, Section 10  
 University Lands Block 11, Section 7  
 Reagan County, Texas