

API No. <u>42-003-47488</u> Drilling Permit # <u>822882</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>333762</u>		2. Operator's Name (as shown on form P-5, Organization Report) <b>GREYSTONE PETROLEUM, LLC</b>		3. Operator Address (include street, city, state, zip): <b>5555 E 71ST ST STE 8350 TULSA, OK 74136-0000</b>		
4. Lease Name <b>UNIVERSITY LANDS 31</b>		5. Well No. <u>2H</u>				
<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>18500</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>						
11. RRC District No. <u>08</u>		12. County <b>ANDREWS</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>13.7</u> miles in a <u>SW</u> direction from <u>Andrews</u> which is the nearest town in the county of the well site.						
15. Section <u>42</u>	16. Block <u>9</u>	17. Survey <u>UL</u>	18. Abstract No. <u>A-U278</u>	19. Distance to nearest lease line: <u>100</u> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>241.7</u>	
21. Lease Perpendiculars: <u>376</u> ft from the <u>W</u> line and <u>113</u> ft from the <u>N</u> line.		22. Survey Perpendiculars: <u>376</u> ft from the <u>W</u> line and <u>113</u> ft from the <u>N</u> line.				
23. Is this a pooled unit? <input checked="" type="checkbox"/> Yes <input 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	
<u>08</u>	<u>28899166</u>	<u>EMMA (DEVONIAN)</u>	<u>Oil Well</u>	<u>18268</u>	<u>0.00</u>	
<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
<b>Remarks</b> [RRC STAFF Feb 10, 2017 11:45 AM]: Nearest lease line distance corrected, per plat. Previous value of 21 referenced the PoP.			<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Richard Johnston, Consulting Engineer</u> <u>Feb 03, 2017</u> Name of filer    Date submitted <u>(512)3800800</u> <u>rick.johnston@swbell.net</u> Phone    E-mail Address (OPTIONAL)			
<b>RRC Use Only</b> Data Validation Time Stamp: Feb 10, 2017 4:38 PM( 'As Approved' Version )						

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

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

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

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

*This facsimile W-1 was generated electronically from data submitted to the RRC.  
 A certification of the automated data is available in the RRC's Austin office.*

Permit #	822882
Approved Date:	Feb 10, 2017

1. RRC Operator No. 333762	2. Operator's Name (exactly as shown on form P-5, Organization Report) GREYSTONE PETROLEUM, LLC	3. Lease Name UNIVERSITY LANDS 31	4. Well No. 2H
<b>Lateral Drainhole Location Information</b>			
5. Field as shown on Form W-1 EMMA (DEVONIAN) (Field # 28899166, RRC District 08)			
6. Section 42	7. Block 9	8. Survey UL	9. Abstract
		10. County of BHL ANDREWS	
11. Terminus Lease Line Perpendiculars 400 ft. from the W line. and 25 ft. from the N line			
12. Terminus Survey Line Perpendiculars 400 ft. from the W line. and 2629 ft. from the S line			
13. Penetration Point Lease Line Perpendiculars 360 ft. from the W line. and 21 ft. from the S line			

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

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER <b>822882</b>	DATE PERMIT ISSUED OR AMENDED <b>02/10/2017</b>	DISTRICT <b>08</b>
API NUMBER <b>42-003-47488</b>	FORM W-1 RECEIVED <b>02/03/2017</b>	COUNTY <b>ANDREWS</b>
TYPE OF OPERATION <b>New Drill</b>	WELLBORE PROFILE(S) <b>Horizontal</b>	ACRES <b>241.7</b>
OPERATOR <b>GREYSTONE PETROLEUM, LLC</b> <b>5555 E 71ST ST STE 8350</b> <b>TULSA, OK 74136-0000</b>		NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: <b>(432) 684-5581</b>
LEASE NAME <b>UNIVERSITY LANDS 31</b>		WELL NUMBER <b>2H</b>
LOCATION <b>13.7 miles SW direction from Andrews</b>		TOTAL DEPTH <b>18500</b>
Section, Block and/or Survey SECTION <b>42</b> BLOCK <b>9</b> ABSTRACT <b>U278</b> SURVEY <b>UL</b>		
DISTANCE TO SURVEY LINES <b>376.0 ft W 113.0 ft N</b>		DISTANCE TO NEAREST LEASE LINE <b>100.0</b>
DISTANCE TO LEASE LINES <b>376.0 ft W 113.0 ft N</b>		DISTANCE TO NEAREST WELL ON LEASE <b>See FIELD(s) Below</b>

FIELD(s) and LIMITATIONS:

\* SEE FIELD DISTRICT FOR REPORTING PURPOSES \*

FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH	WELL# NEAREST WELL	DIST
EMMA (DEVONIAN)	241.7	18268	2H	08
UNIVERSITY LANDS 31	100.0		0.0	
WELLBORE PROFILE(s) FOR FIELD: Horizontal				

Terminus Point: TH1 Section: 42 Block: 9 Abstract: Survey: UL BH County: ANDREWS

Lease Lines: 400.0 ft W 25.0 ft N

Survey Lines: 400.0 ft W 2629.0 ft S

Penetration Lines: 360.0 ft W 21.0 ft S

This is a hydrogen sulfide field. This well shall be drilled in accordance with SWR 36.

**THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS**

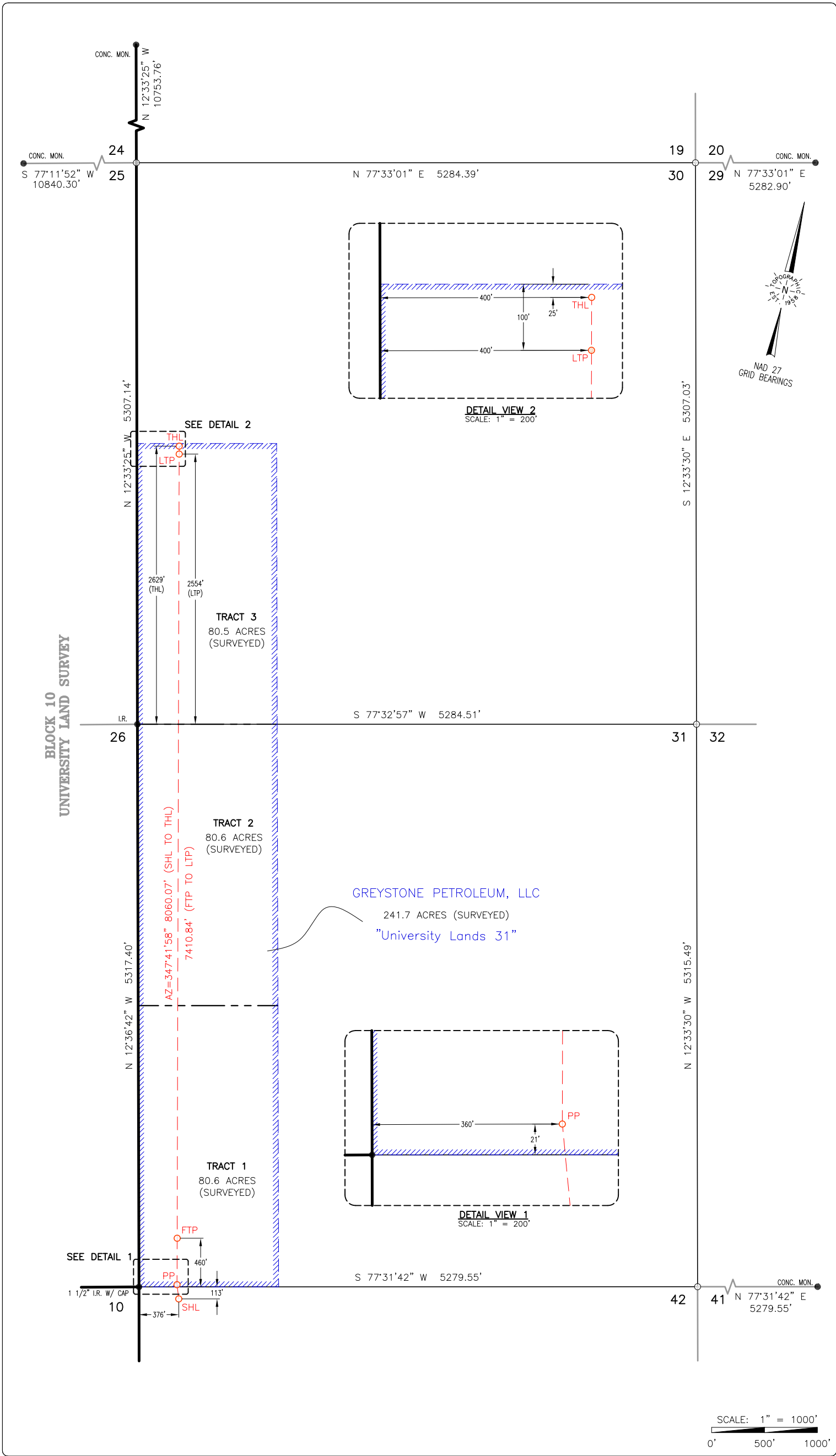
This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.

This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.

**Railroad Commission of Texas**  
**Oil and Gas Division**  
**SWR #13 Formation Data**  
**ANDREWS ( 003 ) COUNTY**

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
YATES	2500	3200		1	01/01/2014
SEVEN RIVERS	3000	3000		2	01/01/2014
QUEEN	3600	4800		3	01/01/2014
GRAYBURG	3100	5000		4	01/01/2014
SAN ANDRES	3700	5300	CO2 flood, high flows, H2S, corrosive	5	01/01/2014
HOLT	5000	5500		6	01/01/2014
GLORIETA	5100	6000		7	01/01/2014
TUBB	6100	6300		8	01/01/2014
CLEARFORK	5600	7600		9	01/01/2014
PERMIAN DETRITAL	7800	7900		10	01/01/2014
LEON	7900	7900		11	01/01/2014
WICHITA ALBANY	6500	8100		12	01/01/2014
SPRABERRY	7300	8600		13	01/01/2014
DEAN	9200	9500		14	01/01/2014
WOLFCAMP	7500	9900		15	01/01/2014
CANYON	8600	10200		16	01/01/2014
PENNSYLVANIAN	8700	10200		17	01/01/2014
MCKEE	8300	10600		18	01/01/2014
STRAWN	8800	11000		19	01/01/2014
FUSSELMAN	8400	11900		20	01/01/2014
DEVONIAN	7600	12500		21	01/01/2014
SILURIAN	8000	12500		22	01/01/2014
ELLENBURGER	7900	13900		23	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>



**Surface Hole Location:**

**GROUND ELEVATION:**  
SHL Ground Elevation: 3148'

**COORDINATES:**  
**NAD 27 TX-NC ZONE:**  
X = 415597.66 Y = 207648.46  
LAT.: N 32°07'52.61" LONG.: W 102°37'11.74"  
LAT.: N 32.1312813 LONG.: W 102.6199274  
**NAD 83 TX-NC ZONE:**  
X = 693272.46 Y = 6755755.99  
LAT.: N 32°07'53.01" LONG.: W 102°37'13.30"  
LAT.: N 32.1313927 LONG.: W 102.6203609

**SURVEY LINE PERPENDICULARS:**  
113' FNL & 376' FWL (Sec. 42)

**UNIT LINE PERPENDICULARS:**  
OFF LEASE

**Penetration Point:**

**COORDINATES:**  
**NAD 27 TX-NC ZONE:**  
X = 415552.48 Y = 207775.92  
LAT.: N 32°07'53.85" LONG.: W 102°37'12.34"  
LAT.: N 32.1316252 LONG.: W 102.6200932  
**NAD 83 TX-NC ZONE:**  
X = 693226.07 Y = 6755883.01  
LAT.: N 32°07'54.25" LONG.: W 102°37'13.90"  
LAT.: N 32.1317366 LONG.: W 102.6205268

**SURVEY LINE PERPENDICULARS:**  
21' FSL & 360' FWL (Sec. 31)

**UNIT LINE PERPENDICULARS:**  
21' FSLL & 360' FWLL

**First Take Point:**

**COORDINATES:**  
**NAD 27 TX-NC ZONE:**  
X = 415458.96 Y = 208204.84  
LAT.: N 32°07'58.04" LONG.: W 102°37'13.66"  
LAT.: N 32.1327903 LONG.: W 102.6204624  
**NAD 83 TX-NC ZONE:**  
X = 693128.45 Y = 6756311.02  
LAT.: N 32°07'58.45" LONG.: W 102°37'15.23"  
LAT.: N 32.1329016 LONG.: W 102.6208961

**SURVEY LINE PERPENDICULARS:**  
460' FSL & 360' FWL (Sec. 31)

**UNIT LINE PERPENDICULARS:**  
460' FSLL & 360' FWLL

**Last Take Point:**

**COORDINATES:**  
**NAD 27 TX-NC ZONE:**  
X = 413880.15 Y = 215445.56  
LAT.: N 32°09'08.85" LONG.: W 102°37'36.11"  
LAT.: N 32.1524582 LONG.: W 102.6266972  
**NAD 83 TX-NC ZONE:**  
X = 691480.57 Y = 6763536.32  
LAT.: N 32°09'09.25" LONG.: W 102°37'37.67"  
LAT.: N 32.1525688 LONG.: W 102.6271318

**SURVEY LINE PERPENDICULARS:**  
2554' FSL & 400' FWL (Sec. 30)

**UNIT LINE PERPENDICULARS:**  
100' FNLL & 400' FWLL

**Terminus Hole Location:**

**COORDINATES:**  
**NAD 27 TX-NC ZONE:**  
X = 413864.17 Y = 215518.84  
LAT.: N 32°09'09.57" LONG.: W 102°37'36.34"  
LAT.: N 32.1526573 LONG.: W 102.6267603  
**NAD 83 TX-NC ZONE:**  
X = 691463.89 Y = 6763609.45  
LAT.: N 32°09'09.96" LONG.: W 102°37'37.90"  
LAT.: N 32.1527678 LONG.: W 102.6271949

**SURVEY LINE PERPENDICULARS:**  
2629' FSL & 400' FWL (Sec. 30)

**UNIT LINE PERPENDICULARS:**  
25' FNLL & 400' FWLL

All Coordinates are in NAD 27 TX-NC Zone unless otherwise noted.

REV#-BY	DATE REVISED	REV#-BY	DATE REVISED
1-MP	01-17-2017	1-XXX	xx/xx/xx
2-ED	01-26-2017		
2-ED	01-31-2017		

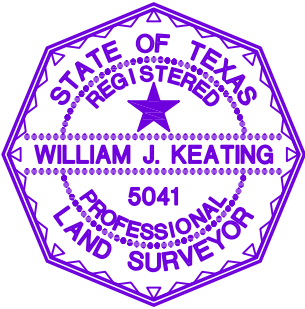
SPECIAL NOTES:

LEGEND

- Section Line
- Block Line
- Abstract Line
- Tract Line
- Unit/Lease Boundary
- Found Monument
- Calculated Corner

CERTIFICATION:

This well location shown on this permit plat was surveyed on ground under my direct supervision. This plat is for Texas Railroad Commission permit purpose only and should not be considered a boundary survey.



Texas Reg. No. 5041



2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM

Texas FIRM Registration NO. 10042500  
FILE NAME: LO\_UNIVERSITY\_LANDS\_31\_2H-REV3

GREYSTONE  
PETROLEUM, LLC

LEASE NAME & WELL NO.:  
**UNIVERSITY LANDS 31 #2H**  
TOPOGRAPHY & VEGETATION:  
**NATURAL MESQUITE PASTURE**  
NEAREST TOWN IN COUNTY:  
**±13.7 MILES SOUTHWEST OF ANDREWS, TEXAS**

LOCATION DESCRIPTION:

SHL: SECTION 42, BLOCK 9, UNIVERSITY LAND  
PP/FTP: SECTION 31, BLOCK 9, UNIVERSITY LAND  
LTP/THL: SECTION 30, BLOCK 9, UNIVERSITY LAND  
ANDREWS COUNTY, TEXAS

Scale: 1" = 1000'	Surveyed: 12-29-2016	ORIGINAL DOC. SIZE: 11"x17"
COGO: 726-44138	Drawn By: MP; 01-03-2017	