

API No. <u>42-383-38545</u> Drilling Permit # <u>773568</u> SWR Exception Case/Docket No. _____		RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <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>				FORM W-1 07/2004 Permit Status: Approved	
1. RRC Operator No. 027200		2. Operator's Name (as shown on form P-5, Organization Report) APACHE CORPORATION			3. Operator Address (include street, city, state, zip):		
4. Lease Name UNIVERSITY 2505		5. Well No. 2HU					
GENERAL INFORMATION							
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 8300		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. 7C		12. County REAGAN		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>11.2</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 25		16. Block 58		17. Survey UNIVERSITY LAND		18. Abstract No. A-	
				19. Distance to nearest lease line: 110 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 482.3	
21. Lease Perpendiculars: <u>200</u> ft from the <u>NORTH</u> line and <u>888</u> ft from the <u>WEST</u> line. 22. Survey Perpendiculars: <u>2433</u> ft from the <u>SOUTH</u> line and <u>1750</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			
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	
7C	85279200	SPRABERRY (TREND AREA)		Oil or Gas Well	8300	229.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER Nov 11, 2013 4:50 PM]: APACHE IS FILING A P6 TO CONSOLIDATE INTO THE UNIVERSITY 2505 LEASE. SEE ATTACHED BEFORE AND AFTER LEASE PLAT; [RRC STAFF Nov 12, 2013 7:24 AM]: As per Sherene Starr: #7 UNDER THE TERMINUS LOCATION SHOULD BE BLK 9, NOT 58. THE TERMINUS LOCATION IS IN SECTION 5 BLK 9, REAGAN COUNTY.				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <div style="display: flex; justify-content: space-between;"> <div> <u>Sherene Starr</u> Name of filer </div> <div> <u>Nov 11, 2013</u> Date submitted </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <u>(432)8181023</u> Phone </div> <div> <u>sherene.starr@apachecorp.com</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only							
Data Validation Time Stamp: Nov 25, 2013 10:07 AM(Current 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**

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 #	773568
Approved Date:	Nov 22, 2013

1. RRC Operator No. 027200	2. Operator's Name (exactly as shown on form P-5, Organization Report) APACHE CORPORATION	3. Lease Name UNIVERSITY 2505	4. Well No. 2HU
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 SPRABERRY (TREND AREA) (Field # 85279200, RRC District 7C)			
6. Section 5	7. Block 58	8. Survey UNIVERSITY LAND	9. Abstract
		10. County of BHL REAGAN	
11. Terminus Lease Line Perpendiculars 100 ft. from the SOUTH line. and 889 ft. from the WEST line			
12. Terminus Survey Line Perpendiculars 100 ft. from the SOUTH line. and 1750 ft. from the EAST line			
13. Penetration Point Lease Line Perpendiculars 200 ft. from the NORTH line. and 888 ft. from the WEST 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 773568	DATE PERMIT ISSUED OR AMENDED Nov 22, 2013	DISTRICT * 7C																
API NUMBER 42-383-38545	FORM W-1 RECEIVED Nov 11, 2013	COUNTY REAGAN																
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 482.3																
OPERATOR APACHE CORPORATION		027200	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: (325) 657-7450															
LEASE NAME UNIVERSITY 2505		WELL NUMBER 2HU																
LOCATION 11.2 miles NW direction from BIG LAKE		TOTAL DEPTH 8300																
Section, Block and/or Survey SECTION 25 BLOCK 58 ABSTRACT 5 SURVEY UNIVERSITY LAND																		
DISTANCE TO SURVEY LINES 2433 ft. SOUTH 1750 ft. EAST		DISTANCE TO NEAREST LEASE LINE 110 ft.																
DISTANCE TO LEASE LINES 200 ft. NORTH 888 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below																
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">FIELD NAME LEASE NAME</th> <th style="text-align: right;">ACRES NEAREST LEASE</th> <th style="text-align: right;">DEPTH NEAREST LEASE</th> <th style="text-align: right;">WELL # NEAREST WE</th> <th style="text-align: right;">DIST</th> </tr> </thead> <tbody> <tr> <td>SPRABERRY (TREND AREA)</td> <td style="text-align: right;">482.30</td> <td style="text-align: right;">8,300</td> <td style="text-align: right;">2HU</td> <td style="text-align: right;">7C</td> </tr> <tr> <td>UNIVERSITY 2505</td> <td style="text-align: right;">110</td> <td></td> <td style="text-align: right;">229</td> <td></td> </tr> </tbody> </table> <hr/> WELLBORE PROFILE(s) FOR FIELD: Horizontal <hr/> RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 200.0 F NORTH L 888.0 F WEST L Terminus Location BH County: REAGAN Section: 5 Block: 58 Abstract: Survey: UNIVERSITY LAND Lease Lines: 100.0 F SOUTH L 889.0 F WEST L Survey Lines: 100.0 F SOUTH L 1750.0 F EAST L				FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST	SPRABERRY (TREND AREA)	482.30	8,300	2HU	7C	UNIVERSITY 2505	110		229	
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST														
SPRABERRY (TREND AREA)	482.30	8,300	2HU	7C														
UNIVERSITY 2505	110		229															
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.																		

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date November 20, 2013

GAU File No.: SC- 11633

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

API Number 38300000

Attention: JENNA HERNANDEZ

RRC Lease No. 000000

SC_027200_38300000_000000_11633.pdf

APACHE CORP
303 VETERANS AIRPARK LN
STE 3000
MIDLAND TX 79705

--Measured--

1750 ft FEL

2433 ft FSL

MRL:SECTION

P-5# 027200

Digital Map Location:

X-coord/Long 1607653

Y-coord/Lat 599658

Datum 27 Zone C

County REAGAN

Lease & Well No. UNIVERSITY 2505 #2HU

Purpose ND

Location SUR-UL,BLK-58,SEC-25,-- [TD=8300] , [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 475 feet must be protected.

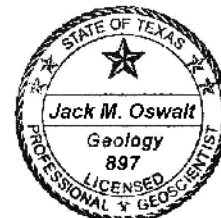
Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form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

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

Sincerely,

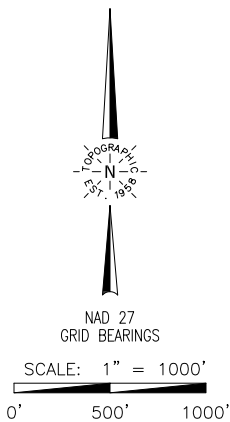
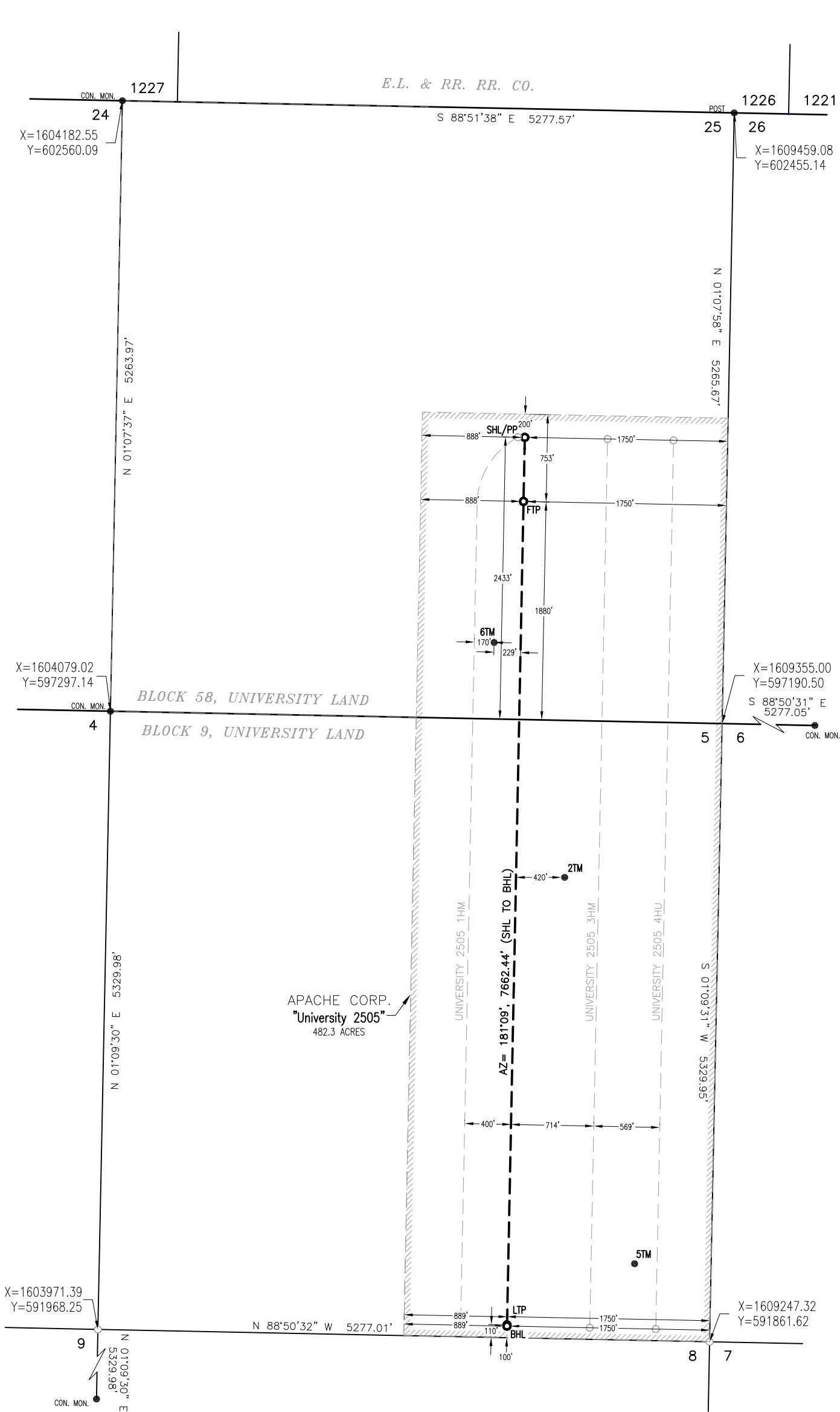
Jack M. Oswalt, P.G.

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 11/20/2013
Note: Alteration of this electronic document will invalidate the digital signature.



Surface Hole Location:

GROUND ELEVATION:

SHL Ground Elevation: 2619'

COORDINATES:

NAD 27 TX-C ZONE:

X = 1607653.49 Y = 599657.86
LAT.: N 31°18'33.86" LONG.: W 101°35'22.95"
LAT.: N 31.3094056 LONG.: W 101.5897074

NAD 83 TX-C ZONE:

X = 1904121.58 Y = 10442234.64
LAT.: N 31°18'34.40" LONG.: W 101°35'24.38"
LAT.: N 31.3095552 LONG.: W 101.5901047

SURVEY LINE PERPENDICULARS:

2433' FSL & 1750' FEL (SEC. 25, BLK 58)

UNIT LINE PERPENDICULARS:

200' FNL & 888' FWL

Penetration Point:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1607653.49 Y = 599657.86
LAT.: N 31°18'33.86" LONG.: W 101°35'22.95"
LAT.: N 31.3094056 LONG.: W 101.5897074

NAD 83 TX-C ZONE:

X = 1904121.58 Y = 10442234.64
LAT.: N 31°18'34.40" LONG.: W 101°35'24.38"
LAT.: N 31.3095552 LONG.: W 101.5901047

SURVEY LINE PERPENDICULARS:

2433' FSL & 1750' FEL (SEC. 25, BLK 58)

UNIT LINE PERPENDICULARS:

200' FNL & 888' FWL

First Take Point:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1607642.39 Y = 599105.50
LAT.: N 31°18'28.39" LONG.: W 101°35'23.00"
LAT.: N 31.3078867 LONG.: W 101.5897230

NAD 83 TX-C ZONE:

X = 1904110.48 Y = 10441682.28
LAT.: N 31°18'28.93" LONG.: W 101°35'24.43"
LAT.: N 31.3080363 LONG.: W 101.5901203

SURVEY LINE PERPENDICULARS:

1880' FSL & 1750' FEL (SEC. 25, BLK 58)

UNIT LINE PERPENDICULARS:

753' FNL & 888' FWL

Last Take Point:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1607499.79 Y = 592006.96
LAT.: N 31°17'18.12" LONG.: W 101°35'23.72"
LAT.: N 31.2883665 LONG.: W 101.5899228

NAD 83 TX-C ZONE:

X = 1903967.85 Y = 10434583.74
LAT.: N 31°17'18.66" LONG.: W 101°35'25.15"
LAT.: N 31.2885168 LONG.: W 101.5903201

SURVEY LINE PERPENDICULARS:

110' FSL & 1750' FEL (SEC. 5, BLK 9)

UNIT LINE PERPENDICULARS:

110' FSL & 889' FWL

Bottom Hole Location:

COORDINATES:

NAD 27 TX-C ZONE:

X = 1607499.58 Y = 591996.96
LAT.: N 31°17'18.02" LONG.: W 101°35'23.72"
LAT.: N 31.2883390 LONG.: W 101.5899231

NAD 83 TX-C ZONE:

X = 1903967.65 Y = 10434573.75
LAT.: N 31°17'18.56" LONG.: W 101°35'25.15"
LAT.: N 31.2884893 LONG.: W 101.5903204

SURVEY LINE PERPENDICULARS:

100' FSL & 1750' FEL (SEC. 5, BLK 9)

UNIT LINE PERPENDICULARS:

100' FSL & 889' FWL

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us. This plat does not in any way represent a "Boundary Survey", and does not comply with correct T.B.P.L.S. Minimum Standards of Procedures for Boundary Surveys.



William J. Keating

Texas Reg. No. 5041

I, William J. Keating, a Registered Professional Land Surveyor, and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein. This plat is for Texas Railroad Commission permitting only.



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

File Name: LO_UNIVERSITY2505_2HU



LEGEND:

- Prop. Wellbore
- Unit Boundary
- Section Lines
- Fence
- Powerline
- Calculated Corner
- Pipeline
- Lease Road

LEASE NAME & WELL NO.:

UNIVERSITY 2505 #2HU

TOPOGRAPHY & VEGETATION:

NATURAL MESQUITE PASTURE

NEAREST TOWN IN COUNTY:

±11.2 MILES NORTHWEST OF BIG LAKE, TEXAS

LOCATION DESCRIPTION:

SHL:
PP/FTP:
LTP/BHL:

SECTION 25, BLOCK 58, UNIVERSITY LAND
SECTION 25, BLOCK 58, UNIVERSITY LAND
SECTION 5, BLOCK 9, UNIVERSITY LAND
REAGAN COUNTY, TEXAS

Scale: 1" = 1000'

ORIGINAL DOC. SIZE: 11"x17"

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

COGO: 569-107244

Surveyed: OCTOBER 14, 2013

Drawn By: ACP; 10-31-13