

API No. <u>42-317-40598</u>	<b>RAILROAD COMMISSION OF TEXAS OIL &amp; GAS DIVISION</b>				<b>FORM W-1</b> 07/2004	
Drilling Permit # <u>820025</u>	<b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b>				Permit Status: <b>Approved</b>	
SWR Exception Case/Docket No. <u>08-0302519 (R38)</u>	<i>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.</i>					
1. RRC Operator No. <b>684474</b>	2. Operator's Name (as shown on form P-5, Organization Report) <b>QEP ENERGY COMPANY</b>		3. Operator Address (include street, city, state, zip): <b>ATTN SOUTHERN DIV REGULATORY 1050 17TH ST SUITE 800 DENVER, CO 80265-0000</b>			
4. Lease Name <b>UNIVERSITY 7-2730</b>		5. Well No. <b>N 09SA</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 <b>9400</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		
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>						
11. RRC District No. <b>08</b>		12. County <b>MARTIN</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>21.6</u> miles in a <u>NE</u> direction from <u>ANDREWS</u> which is the nearest town in the county of the well site.						
15. Section <b>30</b>	16. Block <b>7</b>	17. Survey <b>UL</b>		18. Abstract No. <b>A-U30</b>	19. Distance to nearest lease line: <b>100</b> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>963</b>
21. Lease Perpendiculars: <u>300</u> ft from the <u>FSL</u> line and <u>2532</u> ft from the <u>FEL</u> line.						
22. Survey Perpendiculars: <u>300</u> ft from the <u>FSL</u> line and <u>2532</u> ft from the <u>FEL</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
<b>08</b>	<b>85280300</b>	<b>SPRABERRY (TREND AREA)</b>		<b>Oil or Gas Well</b>	<b>9400</b>	<b>327.00</b>
<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 Nov 7, 2016 5:26 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Nov 7, 2016 5:26 PM]: Operator will be submitting a revised plat and service list. The land department realized that the wrong offset is identified.; [RRC STAFF Nov 9, 2016 3:42 PM]: Problems identified with this permit are resolved.; [RRC STAFF Nov 9, 2016 5:29 PM]: SHL and BHL abstract info added.				<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Kelly Hamden, Regulatory Analyst</u> <u>Nov 02, 2016</u> Name of filer    Date submitted  <u>(303)405-6630</u> <u>Kelly.Hamden@qepres.com</u> Phone    E-mail Address (OPTIONAL)		
<b>RRC Use Only</b>						
Data Validation Time Stamp: <b>Nov 30, 2016 3:38 PM( Current Version )</b>						

**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**

*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 # **820025**  
Approved Date: **Nov 30, 2016**

1. RRC Operator No. <b>684474</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>QEP ENERGY COMPANY</b>	3. Lease Name <b>UNIVERSITY 7-2730</b>	4. Well No. <b>N 09SA</b>
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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **SPRABERRY (TREND AREA) (Field # 85280300, RRC District 08)**

6. Section <b>27</b>	7. Block <b>7</b>	8. Survey <b>UL / A-U27</b>	9. Abstract	10. County of BHL <b>MARTIN</b>
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11. Terminus Lease Line Perpendiculars <b>1</b> ft. from the <b>FNL</b> line. and <b>2638</b> ft. from the <b>FEL</b> line
12. Terminus Survey Line Perpendiculars <b>2639</b> ft. from the <b>FSL</b> line. and <b>2638</b> ft. from the <b>FEL</b> line
13. Penetration Point Lease Line Perpendiculars <b>1</b> ft. from the <b>FSL</b> line. and <b>2637</b> ft. from the <b>FEL</b> line





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

**MARTIN (317) County**

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
SANTA ROSA	1,000	1,000		1	12/17/2013
YATES	2,200	2,700		2	12/17/2013
QUEEN	4,100	4,100		3	12/17/2013
GRAYBURG	3,950	4,300		4	12/17/2013
SAN ANDRES	3,500	4,700	Active CO2 flood; high flows; H2S; corrosive	5	12/17/2013
CISCO	8,500	8,500		6	12/17/2013
SPRABERRY	6,500	8,500		7	12/17/2013
DEAN	6,500	9,500		8	12/17/2013
WOLFCAMP	8,600	9,600		9	12/17/2013
PENNSYLVANIAN	9,400	10,600		10	12/17/2013
STRAWN	10,100	10,600		11	12/17/2013
MISSISSIPPIAN	11,100	11,100		12	12/17/2013
FUSSELMAN	10,600	11,600		13	12/17/2013
SILURIAN	11,600	12,100		14	12/17/2013
DEVONIAN	11,500	12,200		15	12/17/2013
ELLENBURGER	13,200	13,200		16	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>	29 August 2016	<b>GAU Number:</b>	159200
<b>Attention:</b>	QEP ENERGY COMPANY ATTN SOUTHERN DIV DENVER, CO 80265	<b>API Number:</b>	31740531
<b>Operator No.:</b>	684474	<b>County:</b>	MARTIN
		<b>Lease Name:</b>	UNIVERSITY 7-2730
		<b>Lease Number:</b>	
		<b>Well Number:</b>	S 02LD
		<b>Total Vertical Depth:</b>	8100
		<b>Latitude:</b>	32.394210
		<b>Longitude:</b>	-102.173814
		<b>Datum:</b>	NAD27

**Purpose:** New Drill  
**Location:** Survey-UL; Block-7; Section-27

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 a depth of 350 feet must be protected.

This recommendation is applicable for all wells drilled in this University 7-2730 Lease in Sections 27 and 30.

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 08/26/2016. 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 83 (HPGN) GRID  
TEXAS NORTH CENTRAL ZONE

0 500 1000  
1" = 1000 FEET

**LEGEND**

- SURVEY LINE
- PROPOSED LATERAL LEASE LINE
- FOUND CONCRETE MONUMENT
- CALCULATED CORNER
- - - POOLED UNIT LINE
- - - 660' BUFFER

**SURFACE HOLE LOCATION**

300' FSL 2532' FEL LEASE  
300' FSL 2532' FEL SECTION 30

NAD 83 (HPGN)  
Y = 6,838,230.41 X = 834,251.72  
LAT: 32°22'20.32" N LONG: 102°10'28.40" W  
NAD 27  
Y = 288,776.52 X = 557,357.53  
LAT: 32°22'19.93" N LONG: 102°10'26.85" W

**PENETRATION POINT**

1' FSL 2637' FEL LEASE  
1' FSL 2637' FEL SECTION 30

NAD 83 (HPGN)  
Y = 6,837,915.42 X = 834,216.97  
LAT: 32°22'17.19" N LONG: 102°10'28.68" W  
NAD 27  
Y = 288,461.87 X = 557,319.78  
LAT: 32°22'16.81" N LONG: 102°10'27.13" W

**FIRST TAKE POINT**

100' FSL 2637' FEL LEASE  
100' FSL 2637' FEL SECTION 30

NAD 83 (HPGN)  
Y = 6,838,011.86 X = 834,194.60  
LAT: 32°22'18.14" N LONG: 102°10'28.98" W  
NAD 27  
Y = 288,558.52 X = 557,298.33  
LAT: 32°22'17.75" N LONG: 102°10'27.43" W

**LAST TAKE POINT**

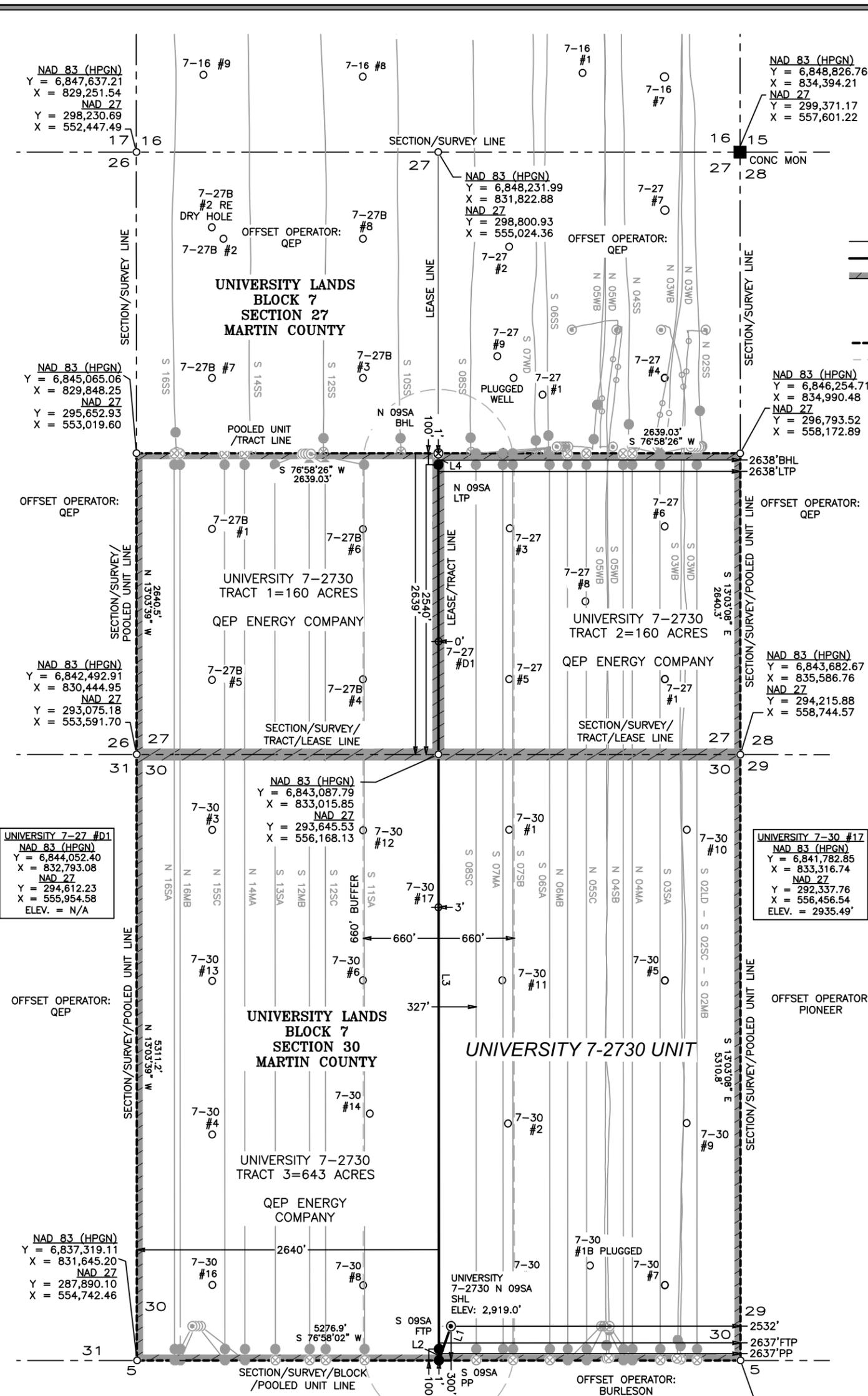
100' FNL 2638' FEL LEASE  
2540' FSL 2638' FEL SECTION 27

NAD 83 (HPGN)  
Y = 6,845,562.69 X = 832,442.91  
LAT: 32°23'32.20" N LONG: 102°10'52.48" W  
NAD 27  
Y = 296,125.81 X = 555,618.86  
LAT: 32°23'31.82" N LONG: 102°10'50.92" W

**BOTTOM HOLE LOCATION**

1' FNL 2638' FEL LEASE  
2639' FSL 2638' FEL SECTION 27

NAD 83 (HPGN)  
Y = 6,845,659.13 X = 832,420.54  
LAT: 32°23'33.15" N LONG: 102°10'52.78" W  
NAD 27  
Y = 296,222.46 X = 555,597.41  
LAT: 32°23'32.77" N LONG: 102°10'51.22" W



UNIVERSITY 7-27 #D1  
NAD 83 (HPGN)  
Y = 6,844,052.40  
X = 832,793.08  
NAD 27  
Y = 294,612.23  
X = 555,954.58  
ELEV. = N/A

UNIVERSITY 7-30 #17  
NAD 83 (HPGN)  
Y = 6,841,782.85  
X = 833,316.74  
NAD 27  
Y = 292,337.76  
X = 556,456.54  
ELEV. = 2935.49'

LINE	BEARING	DISTANCE
L1	S 06°17'40" W	316.90'
L2	N 13°03'39" W	99.00'
L3	N 13°03'39" W	7751.35'
L4	N 13°03'39" W	99.00'

**J.H. OBRIEN**  
A-945  
SF-6944  
BLOCK HA, SECTION 5  
MARTIN COUNTY

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT SURFACE LOCATION AS STAKED ON THE GROUND.

*John Kowalik*  
JOHN E. KOWALIK  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF TEXAS NO. 6408



PLAT OF:  
A PROPOSED WELL LOCATION FOR:  
**QEP ENERGY COMPANY**  
**UNIVERSITY 7-2730 UNIT**  
**UNIVERSITY 7-2730 N 09SA**  
SITUATED IN THE UNIVERSITY LANDS, BLOCK 7, SECTIONS 27 AND 30, AND BEING APPROXIMATELY 21.6 MILES NORTHEAST OF ANDREWS IN MARTIN COUNTY, TEXAS.

**FSC INC**  
SURVEYORS+ENGINEERS  
550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net  
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**QEP ENERGY™**

DATE: 10-26-2016  
DRAWN BY: GG  
CHECKED BY: JK  
FIELD CREW: RE  
PROJECT NO: 2016090811  
SCALE: 1" = 1000'  
SHEET: 1 OF 1  
REVISION: 1

PLOT DATE: 10/27/16 1:30 P.M.

**GENERAL NOTES**

- COORDINATES SHOWN ARE BASED ON TEXAS COORDINATE SYSTEM OF NAD 83 (HPGN) "TEXAS NORTH CENTRAL ZONE", AND BASED ON "GLASS" NGS MONUMENT (Y = 6,817,164.36, X = 834,131.39)
- VERTICAL DATUM IS NAVD 88
- LATITUDE AND LONGITUDE ARE NAD 83 (HPGN) AS SHOWN
- AREA, DISTANCES, AND COORDINATES ARE "GRID"
- UNITS ARE UNITED STATES SURVEY FOOT.
- ALL LEASE AND TRACT INFORMATION SHOWN HERE ON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACRESAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY".