

API No. <u>42-301-33213</u> Drilling Permit # <u>823045</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. <b>774719</b>		2. Operator's Name (as shown on form P-5, Organization Report) <b>SHELL WESTERN E&amp;P</b>			3. Operator Address (include street, city, state, zip): <b>PO BOX 576</b> <b>HOUSTON, TX 77001-0000</b>		
4. Lease Name <b>UNIVERSITY 19 PW UNIT</b>			5. Well No. <b>1406H</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>12000</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>SURFACE LOCATION AND ACREAGE INFORMATION</b>							
11. RRC District No. <b>08</b>		12. County <b>LOVING</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>11.1</u> miles in a <u>SE</u> direction from <u>Mentone</u> which is the nearest town in the county of the well site.							
15. Section <b>9</b>		16. Block <b>19</b>		17. Survey <b>UL</b>		18. Abstract No. <b>A-U9</b>	
				19. Distance to nearest lease line: <b>1761</b> ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>8588.11</b>	
21. Lease Perpendiculars: <u>1567</u> ft from the <u>NE</u> line and <u>4651</u> ft from the <u>NW</u> line. 22. Survey Perpendiculars: <u>1567</u> ft from the <u>NE</u> line and <u>635</u> ft from the <u>SE</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	
08	71052900	PHANTOM (WOLFCAMP)			Oil Well	11650	
<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
<b>Remarks</b> [FILER Feb 8, 2017 8:29 AM]: The SHL, PP and FTP are located in Sec. 9, Blk. 19, University Lands Survey. The LTP and BHL are located in Sec. 18, Blk. 19, University Lands Survey.					<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge. <div style="text-align: center;"> <b>George Mullen, Sr. Regulatory Specialist</b>          _____          Name of filer       </div> <div style="text-align: center;"> <b>Feb 08, 2017</b>          _____          Date submitted       </div> <div style="text-align: center;"> <b>(832)337-0549</b>          _____          Phone       </div> <div style="text-align: center;"> <b>george.mullen@shell.com</b>          _____          E-mail Address (OPTIONAL)       </div>		
<b>RRC Use Only</b> Data Validation Time Stamp: Feb 15, 2017 5:05 PM( 'As Approved' Version )							

Permit Status: <b>Approved</b>  <i>The RRC has not approved this application.          Duplication or distribution of information is          at the user's own risk.</i>
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RAILROAD COMMISSION OF TEXAS  
 OIL & GAS DIVISION

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 #	823045
Approved Date:	Feb 15, 2017

1. RRC Operator No. 774719	2. Operator's Name (exactly as shown on form P-5, Organization Report) SHELL WESTERN E&P	3. Lease Name UNIVERSITY 19 PW UNIT	4. Well No. 1406H
Lateral Drainhole Location Information			
5. Field as shown on Form W-1      PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)			
6. Section 18	7. Block 19	8. Survey UNIVERSITY LAND	9. Abstract U18
10. County of BHL LOVING			
11. Terminus Lease Line Perpendiculars 12324 ft. from the        NE        line. and    12437 ft. from the        NW        line			
12. Terminus Survey Line Perpendiculars 1761 ft. from the        NE        line. and    1864 ft. from the        NW        line			
13. Penetration Point Lease Line Perpendiculars 1763 ft. from the        NE        line. and    4784 ft. from the        NW        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 <div style="text-align: right;">823045</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Feb 15, 2017</div>	DISTRICT <div style="text-align: center;">* 08</div>																																				
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TYPE OF OPERATION <div style="text-align: center;">NEW DRILL</div>	WELLBORE PROFILE(S) <div style="text-align: center;">Horizontal</div>	ACRES <div style="text-align: center;">8588.11</div>																																				
OPERATOR <div style="text-align: right;">774719</div> SHELL WESTERN E&P PO BOX 576 HOUSTON, TX 77001-0000		NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. <b>District Office Telephone No:</b> (432) 684-5581																																				
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RESTRICTIONS:    Permitted for oil only. This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production.  Lateral: TH1 Penetration Point Location Lease Lines:            1763.0 F NE L 4784.0 F NW L  Terminus Location BH County: LOVING Section: 18                      Block: 19                      Abstract: U18 Survey: UNIVERSITY LAND Lease Lines:            12324.0 F NE L 12437.0 F NW L Survey Lines:            1761.0 F NE L 1864.0 F NW L																																						
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**RAILROAD COMMISSION OF TEXAS**  
**OIL & GAS DIVISION**

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

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

**LOVING (301) County**

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RED BLUFF	3,900	3,900		1	12/17/2013
BELL CANYON	4,700	4,700		2	12/17/2013
BRUSHY CANYON	6,000	6,000		3	12/17/2013
DELAWARE	3,000	6,500		4	12/17/2013
CHERRY CANYON	3,700	7,800		5	12/17/2013
BONE SPRINGS	8,200	9,800		6	12/17/2013
WOLFCAMP	11,000	12,900		7	12/17/2013
PENNSYLVANIAN	14,900	15,000		8	12/17/2013
STRAWN	14,700	15,000		9	12/17/2013
ATOKA	15,200	16,000	high pressure	10	12/17/2013
MORROW	15,700	17,000		11	12/17/2013
DEVONIAN	17,800	17,800		12	12/17/2013
FUSSELMAN	18,900	19,000		13	12/17/2013
ELLENBURGER	21,000	21,000		14	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

**Date Issued:** 01 February 2017**GAU Number:** 166499**Attention:** SHELL WESTERN E&P  
PO BOX 576  
HOUSTON, TX 77001**API Number:**  
**County:** LOVING  
**Lease Name:** University 19 PW Unit**Operator No.:** 774719**Lease Number:**  
**Well Number:** 1407H  
**Total Vertical Depth:** 12000  
**Latitude:** 31.699414  
**Longitude:** -103.410281  
**Datum:** NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-19; Section-9

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 300 feet, and the Rustler, the top of which is estimated to occur from 500 to 550 feet depth and the base of which is estimated to occur from 950 to 1000 feet depth by reconnaissance-level evaluation, must be protected.

This recommendation is applicable for all wells drilled in this sec. 9.

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 01/25/2017. 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

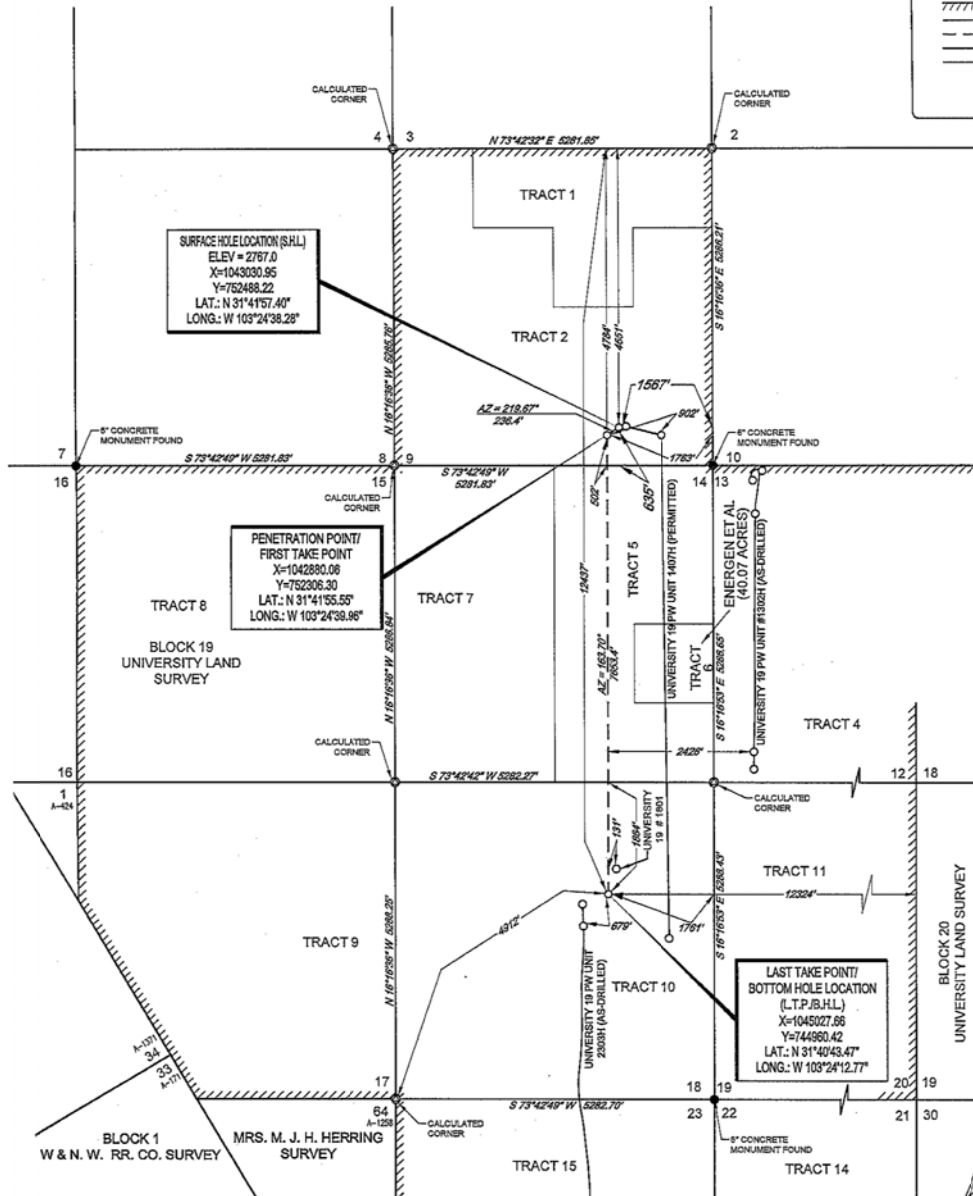


WELL LOCATION  
LEASE NAME & WELL NO.:  
UNIVERSITY 19 PW UNIT 1406H  
UNRELEASED ACREAGE:  
8588.11 ACRES  
NEAREST TOWN IN COUNTY:  
±11.1 MILES SOUTHEAST OF MENTONE, TEXAS  
DESCRIPTION:  
SECTIONS 9, 14 & 18, BLOCK 19, UNIVERSITY LAND SURVEY  
LOVING COUNTY, TEXAS



LEGEND:

-----	Unit Boundary
-----	Survey/Section line
-----	Proposed Well Path
-----	Existing/Permitted Well Path
-----	Mineral Tract Boundary
●	Monument Found
○	Calculated Corner
○	Well Point



TIES TABLE

POINT	UNIT	SURVEY/SECTION
S.H.L.	1567' F.NEL	1567' F.NEL & 4557' F.NWL
P.P.	1763' F.NEL	1763' F.NEL & 502' F.SEL
F.T.P.	4784' F.NEL	502' F.SEL
L.T.P./	12324' F.NEL	1761' F.NEL & 1664' F.NWL
B.H.L.	12437' F.NWL	1664' F.NWL

**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY  
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7548  
TEXAS FIRM REGISTRATION NO. 10042804  
WWW.TOPOGRAPHIC.COM



*John R. Anderson* 2/9/17  
John R. Anderson, R.P.L.S. No. 6442

FEBRUARY 7, 2017

UNIVERSITY 19 PW UNIT 1406H	REVISION:		NOTES:	NOTES CONTD:
	INT	DATE		
DATE: 02/07/2017			1. ORIGINAL DOCUMENT SIZE: 11" X 17"	6. THIS PRELIMINARY LOCATION HAS BEEN CAREFULLY SURVEYED ON THE GROUND DURING THE DATE OF NOVEMBER 4, 2016, AT A GROUND LEVEL ELEVATION OF 2767.0 SURVEY FEET.
FILE: LO-UNIVERSITY 19 PW UNIT 1406H			2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID-BASED UPON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927, UNLESS OTHERWISE NOTED.	7. S.H.L. = SURFACE HOLE LOCATION
DRAWN BY: O.M.			3. THIS LOCATION AND/OR UNRELEASED BOUNDARY HAS BEEN CAREFULLY SURVEYED ON THE GROUND UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE ACCORDING TO THE EVIDENCE, OFFICIAL SURVEY RECORDS, MAPS, AND OTHER DATA PROVIDED BY SHELL WESTERN E&P. THIS PLAN WAS CREATED FOR THE SOLE PURPOSE OF FILING A PERMIT WITH THE RAILROAD COMMISSION OF TEXAS AND SHOULD NOT BE CONSTRUED AS A BOUNDARY SURVEY IN COMPLIANCE WITH T.S.P.L.S. MINIMUM STANDARDS OF PROCEDURES FOR BOUNDARY SURVEYS. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAN IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.	8. P.P. = POINT OF PENETRATION
SHEET: 1 OF 1			4. ALL ELEVATION VALUES CONTAINED HEREIN ARE ORTHOMETRIC ONLY, BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), U.S. SURVEY FEET.	9. F.T.P. = FIRST TAKE POINT
			5. ALL MINERAL OWNERSHIP DATA SHOWN HEREIN IS BASED ON INFORMATION PROVIDED BY SHELL WESTERN E&P OR ITS SUBSIDIARIES & AFFILIATES.	10. L.T.P. = LAST TAKE POINT
				11. B.H.L. = BOTTOM HOLE LOCATION