

API No. <u>42-105-42367</u> Drilling Permit # <u>824004</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. <div style="text-align: center;">253385</div>		2. Operator's Name (as shown on form P-5, Organization Report) <div style="text-align: center;">EP ENERGY E&P COMPANY, L.P.</div>		3. Operator Address (include street, city, state, zip): <div style="text-align: center;">ATTN JOSEPH ARAIZA PO BOX 4660 HOUSTON, TX 77210-4660</div>			
4. Lease Name <div style="text-align: center;">UNIVERSITY 38 BLOCK UNIT</div>		5. Well No. <div style="text-align: center;">3819KH</div>					
GENERAL INFORMATION							
6. Purpose of filing (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D) </div>							
7. Wellbore Profile (mark ALL appropriate boxes): <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <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 </div>							
8. Total Depth <div style="text-align: center;">8999</div>		9. Do you have the right to develop the minerals under any right-of-way ? <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div>		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>			
SURFACE LOCATION AND ACREAGE INFORMATION							
11. RRC District No. <div style="text-align: center;">7C</div>		12. County <div style="text-align: center;">CROCKETT</div>		13. Surface Location <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore </div>			
14. This well is to be located <u>8.57</u> miles in a <u>SE</u> direction from <u>BARNHART</u> which is the nearest town in the county of the well site.							
15. Section <div style="text-align: center;">19</div>	16. Block <div style="text-align: center;">38</div>	17. Survey <div style="text-align: center;">UL</div>		18. Abstract No. <div style="text-align: center;">A-</div>	19. Distance to nearest lease line: <div style="text-align: center;">135 ft.</div>	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <u>1352.8</u>	
21. Lease Perpendiculars: <u>30</u> ft from the <u>S</u> line and <u>2230</u> ft from the <u>E</u> line. 22. Survey Perpendiculars: <u>30</u> ft from the <u>S</u> line and <u>2230</u> ft from the <u>E</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			
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	53613750	LIN (WOLFCAMP)		Oil or Gas Well	8999	383.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER Mar 2, 2017 1:07 PM]: To avoid a SWR 40 violation, a WRO was filed to remove Block 38, Sections 19 and 12 from the University Salt Draw lease (18942); see tracking number 169559. This well is located within the University Central Drilling & Development Unit. FTP - 150' S & 1545' E; LTP - 135' N & 1545' E				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; margin-top: 10px;"> <div> <u>Jessica High, Regulatory Analyst II</u> Name of filer <u>(713)9976632</u> Phone </div> <div> <u>Mar 02, 2017</u> Date submitted <u>jessica.high@epenergy.com</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only							
Data Validation Time Stamp: Mar 6, 2017 12:57 PM(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

*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 #	824004
Approved Date:	Mar 02, 2017

1. RRC Operator No. 253385	2. Operator's Name (exactly as shown on form P-5, Organization Report) EP ENERGY E&P COMPANY, L.P.	3. Lease Name UNIVERSITY 38 BLOCK UNIT	4. Well No. 3819KH
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 12	7. Block 38	8. Survey UL	9. Abstract
		10. County of BHL CROCKETT	
11. Terminus Lease Line Perpendiculars 30 ft. from the S line. and 2230 ft. from the E line			
12. Terminus Survey Line Perpendiculars 60 ft. from the N line. and 1545 ft. from the E line			
13. Penetration Point Lease Line Perpendiculars 350 ft. from the N line. and 1545 ft. from the E 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;">824004</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: right;">Mar 02, 2017</div>	DISTRICT <div style="text-align: right;">* 7C</div>																																													
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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.																																															

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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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 & GAS DIVISION
SWR #13 Formation Data**

CROCKETT (105) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
QUEEN	1,000	2,300		1	12/17/2013
SAN ANDRES	1,000	3,700		2	12/17/2013
LEONARD	3,100	4,200		3	12/17/2013
WOLFCAMP	3,400	6,300		4	12/17/2013
CANYON	4,000	8,800		5	12/17/2013
STRAWN	7,100	11,600		6	12/17/2013
DEVONIAN	8,900	11,900		7	12/17/2013
ELLENBURGER	6,500	13,400		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

Date Issued: 03 March 2017**GAU Number:** 168297**Attention:** EP ENERGY E&P COMPANY,
ATTN JOSEPH ARAIZA
HOUSTON, TX 77210**Operator No.:** 253385**API Number:**
County: CROCKETT
Lease Name: University Stonegate
Lease Number: 17668
Well Number: 3819FH
Total Vertical Depth: 8999
Latitude: 31.030735
Longitude: -101.089209
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U261; Block-38; Section-19

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 20 feet below the base of the Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 750 feet.

This recommendation is applicable for all wells drilled in this sec. 19.

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 03/03/2017. 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 83, Central Zone 4203
Surface Hole Location (SHL Sec. 19)
Latitude: 31.030196° N
Longitude: 101.083534° W
X=2061623.85
Y=10339203.45
Elev.=2619'
30' FSL & 2230' FEL

NAD 27, Central Zone 4203
Surface Hole Location (SHL Sec. 19)
Latitude: 31.030029° N
Longitude: 101.083146° W
X=1765156.86
Y=496624.46
Elev.=2619'
30' FSL & 2230' FEL

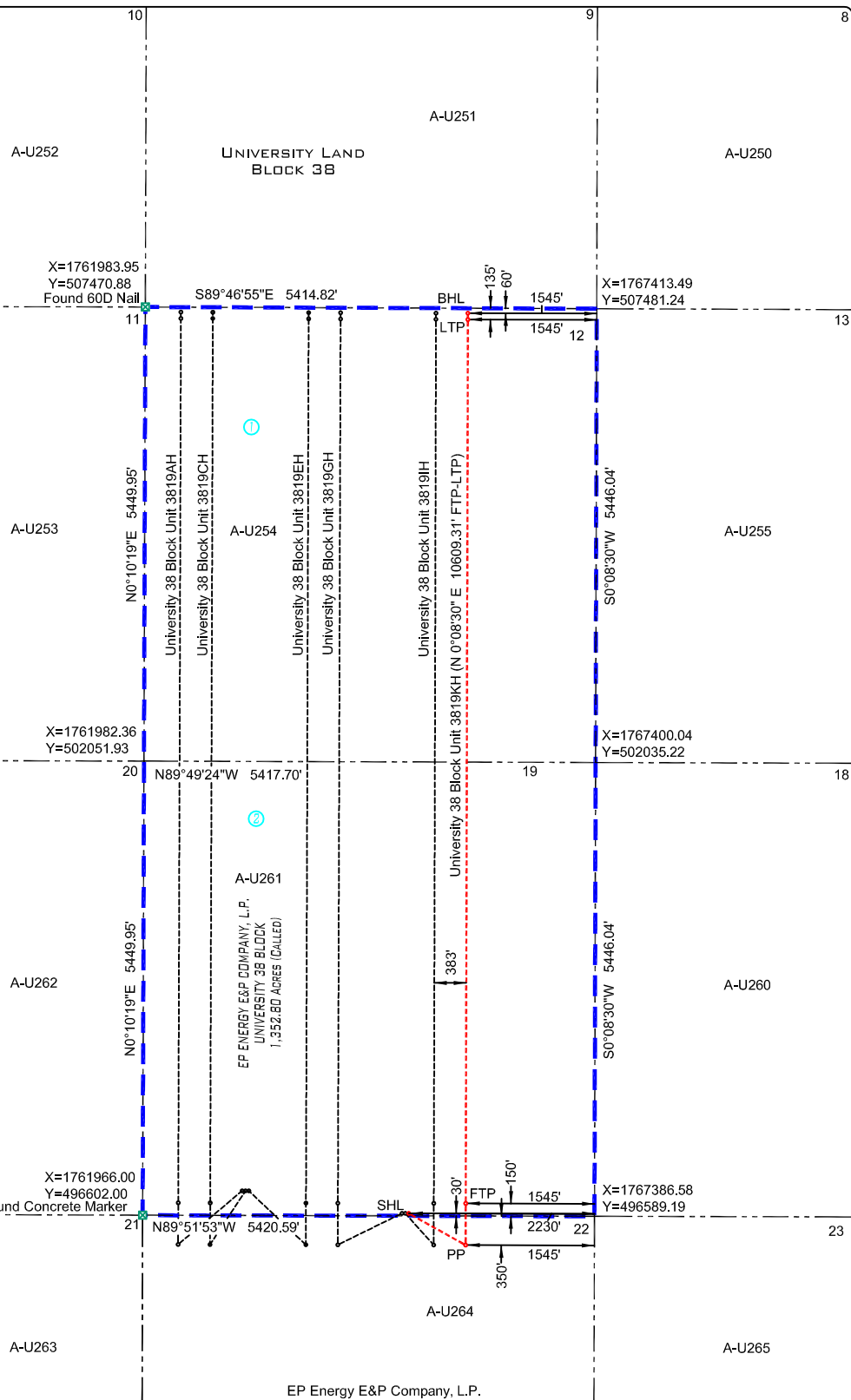
Point of Penetration (PP Sec. 22)
Latitude: 31.028993° N
Longitude: 101.080954° W
X=1765840.72
Y=496242.84
350' FNL & 1545' FEL

First Take Point (FTP Sec. 19)
Latitude: 31.030368° N
Longitude: 101.080961° W
X=1765841.95
Y=496742.84
150' FSL & 1545' FEL

Last Take Point (LTP Sec. 12)
Latitude: 31.059538° N
Longitude: 101.081105° W
X=1765868.17
Y=507352.12
135' FNL & 1545' FEL

Bottom Hole Location (BHL Sec. 12)
Latitude: 31.059745° N
Longitude: 101.081106° W
X=1765868.35
Y=507427.12
60' FNL & 1545' FEL

Unit Boundary Distance	
SHL	30' FSL & 2230' FEL
PP	Off Lease
FTP	150' FSL & 1545' FEL
LTP	135' FNL & 1545' FEL
BHL	60' FNL & 1545' FEL



Well Name
UNIVERSITY 38 BLOCK UNIT 3819KH
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
8.57 MILES SOUTHEAST OF BARNHART, TEXAS

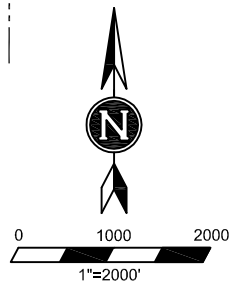
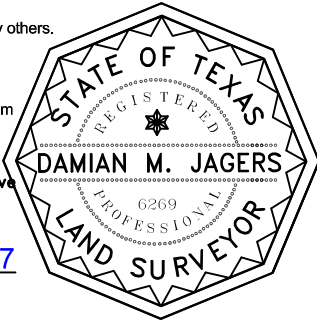
NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Shown Acreages were furnished by others. The Information contained on this plat is intended for the sole use of EP ENERGY E&P COMPANY, L.P.

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
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269

DATE



Tract No.	Lessor	Acreage
1	University Lands	676.40
2	University Lands	676.40
	Total	1352.80



EP ENERGY E&P COMPANY, L.P.

UNIVERSITY 38 BLOCK UNIT 3819KH
Block 38, Section 19
Block 38, Section 12
Block 38, Section 22
Crockett County, Texas