

API No. <u>42-105-42362</u>	<b>RAILROAD COMMISSION OF TEXAS OIL &amp; GAS DIVISION</b>				<b>FORM W-1</b> 07/2004	
Drilling Permit # <u>823898</u>	<b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b>				Permit Status: <b>Approved</b>	
SWR Exception Case/Docket No. _____		<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>253385</b>		2. Operator's Name (as shown on form P-5, Organization Report) <b>EP ENERGY E&amp;P COMPANY, L.P.</b>		3. Operator Address (include street, city, state, zip): <b>ATTN JOSEPH ARAIZA PO BOX 4660 HOUSTON, TX 77210-4660</b>		
4. Lease Name <b>UNIVERSITY STONEGATE</b>			5. Well No. <b>3819HH</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>8999</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>7C</b>		12. County <b>CROCKETT</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>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 <b>19</b>	16. Block <b>38</b>	17. Survey <b>UL</b>		18. Abstract No. <b>A-</b>	19. Distance to nearest lease line: <b>150</b> ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>14831.6</b>
21. Lease Perpendiculars: <u>30</u> ft from the <u>SOUTH</u> line and <u>2290</u> ft from the <u>EAST</u> line.						
22. Survey Perpendiculars: <u>30</u> ft from the <u>SOUTH</u> line and <u>2290</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		
<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>7C</b>	<b>53613750</b>	<b>LIN (WOLFCAMP)</b>		<b>Oil or Gas Well</b>	<b>8999</b>	<b>383.00</b>
<b>BOTTOMHOLE LOCATION INFORMATION</b> is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
<b>Remarks</b> [FILER Mar 1, 2017 12:25 PM]: This well is located within the University Stonegate Drilling & Development unit. FTP - 150' FNL & 2342'FWL; LTP - 2986' FSL & 2342' FWL.				<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge.  <u>Rita Martinez-Dean, Associate Analyst</u> <u>Mar 01, 2017</u> Name of filer    Date submitted  <u>(713)9976212</u> <u>Rita.Martinez@epenergy.com</u> Phone    E-mail Address (OPTIONAL)		
<b>RRC Use Only</b> Data Validation Time Stamp:    Mar 6, 2017 1:50 PM( Current Version )						

**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 # **823898**  
Approved Date: **Mar 02, 2017**

1. RRC Operator No. <b>253385</b>	2. Operator's Name (exactly as shown on form P-5, Organization Report) <b>EP ENERGY E&amp;P COMPANY, L.P.</b>	3. Lease Name <b>UNIVERSITY STONEGATE</b>	4. Well No. <b>3819HH</b>
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**Lateral Drainhole Location Information**

5. Field as shown on Form W-1 **LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)**

6. Section <b>19</b>	7. Block <b>38</b>	8. Survey <b>UL</b>	9. Abstract	10. County of BHL <b>CROCKETT</b>
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11. Terminus Lease Line Perpendiculars <b>2936</b> ft. from the <b>SOUTH</b> line. and <b>2342</b> ft. from the <b>WEST</b> line
12. Terminus Survey Line Perpendiculars <b>2500</b> ft. from the <b>NORTH</b> line. and <b>2342</b> ft. from the <b>WEST</b> line
13. Penetration Point Lease Line Perpendiculars <b>350</b> ft. from the <b>SOUTH</b> line. and <b>2342</b> ft. from the <b>WEST</b> line





**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

<b>Attention:</b>	EP ENERGY E&P COMPANY, ATTN JOSEPH ARAIZA HOUSTON, TX 77210	<b>API Number:</b>	
<b>Operator No.:</b>	253385	<b>County:</b>	CROCKETT
		<b>Lease Name:</b>	University Stonegate
		<b>Lease Number:</b>	17668
		<b>Well Number:</b>	3819FH
		<b>Total Vertical Depth:</b>	8999
		<b>Latitude:</b>	31.030735
		<b>Longitude:</b>	-101.089209
		<b>Datum:</b>	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: 31.030195° N  
 Longitude: 101.083726° W  
 X=2061563.85  
 Y=10339203.59  
 Elev.=2619'  
 30' FSL & 2290' FEL

NAD 27, Central Zone 4203  
 Surface Hole Location (SHL Sec. 19)  
 Latitude: 31.030029° N  
 Longitude: 101.083726° W  
 X=1765096.86  
 Y=496624.60  
 Elev.=2619'  
 30' FSL & 2290' FEL

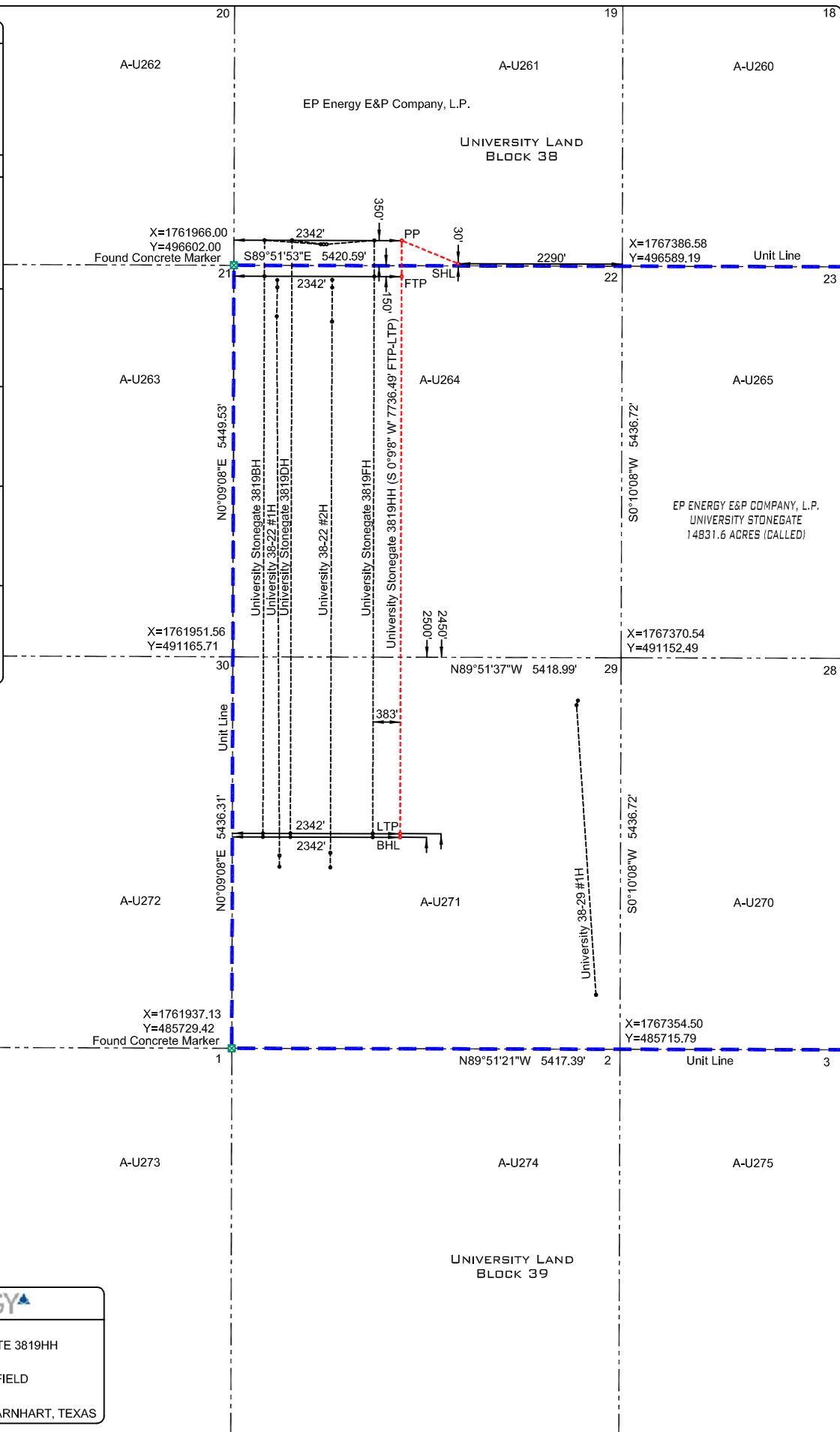
Point of Penetration (PP Sec. 19)  
 Latitude: 31.030899° N  
 Longitude: 101.085860° W  
 X=1764308.92  
 Y=496946.47  
 350' FSL & 2342' FWL

First Take Point (FTP Sec. 22)  
 Latitude: 31.029524° N  
 Longitude: 101.085854° W  
 X=1764307.60  
 Y=496446.47  
 150' FNL & 2342' FWL

Last Take Point (LTP Sec. 29)  
 Latitude: 31.008252° N  
 Longitude: 101.085752° W  
 X=1764287.05  
 Y=488710.01  
 2450' FNL & 2342' FWL

Bottom Hole Location (BHL Sec. 29)  
 Latitude: 31.008115° N  
 Longitude: 101.085751° W  
 X=1764286.92  
 Y=488660.01  
 2500' FNL & 2342' FWL

Unit Boundary Distance	
SHL	Off Lease
PP	Off Lease
FTP	150' FNL & 2342' FWL
LTP	2986' FSL & 2342' FWL
BHL	2936' FSL & 2342' FWL



**EP ENERGY**  
 Well Name  
 UNIVERSITY STONEGATE 3819HH  
 Drilling Field  
 LIN (WOLFCAMP) FIELD  
 Nearest Town  
 8.57 MILES SOUTHEAST OF BARNHART, TEXAS

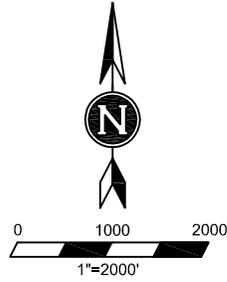
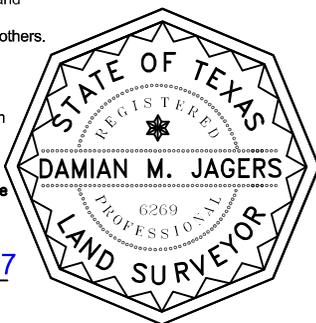
NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Shown Acreages were furnished by others. The information contained on this plat is intended for the sole use of EP ENERGY E&P COMPANY, 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* 2/28/2017  
 DATE

DAMIAN M. JAGERS  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 TEXAS REGISTRATION NO. 6269



EP ENERGY E&P COMPANY, L.P.

UNIVERSITY STONEGATE 3819HH  
 Block 38, Section 19  
 Block 38, Section 22  
 Block 38, Section 29  
 Crockett County, Texas