

API No. <u>42-105-42313</u> Drilling Permit # <u>811281</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. 253385		2. Operator's Name (as shown on form P-5, Organization Report) EP ENERGY E&P COMPANY, L.P.		3. Operator Address (include street, city, state, zip): ATTN CHELSEA CHAPMAN PO BOX 4660 HOUSTON, TX 77210-4660			
4. Lease Name UNIVERSITY SALT DRAW		5. Well No. 4101GH					
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 8999		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 CROCKETT		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>7.18</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 1		16. Block 41		17. Survey UNIVERSITY LANDS		18. Abstract No. A-	
				19. Distance to nearest lease line: 230 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 34139.43	
21. Lease Perpendiculars: <u>8601</u> ft from the <u>NORTH</u> line and <u>10307</u> ft from the <u>WEST</u> line. 22. Survey Perpendiculars: <u>2288</u> ft from the <u>SOUTH</u> line and <u>638</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	53613750	LIN (WOLFCAMP)		Oil or Gas Well	7000	1089.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER Oct 16, 2015 10:43 AM]: This well is located within the University Salt Draw Drilling & Development Unit. FTP = 7735' FNL & 9561' FWL LTP = 230' FNL & 9561' FWL				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. LINDA RENKEN, Sr. Regulatory Analyst _____ Name of filer (713)9975138 Phone linda.renken@epenergy.com E-mail Address (OPTIONAL)			
RRC Use Only				Data Validation Time Stamp: Oct 23, 2015 8:46 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 #	811281
Approved Date:	Oct 23, 2015

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 SALT DRAW	4. Well No. 4101GH
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 30	7. Block 40	8. Survey UNIVERSITY LANDS	9. Abstract
		10. County of BHL CROCKETT	
11. Terminus Lease Line Perpendiculars 30 ft. from the North line. and 6561 ft. from the West line			
12. Terminus Survey Line Perpendiculars 30 ft. from the North line. and 1384 ft. from the East line			
13. Penetration Point Lease Line Perpendiculars 8525 ft. from the North line. and 10241 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 811281	DATE PERMIT ISSUED OR AMENDED Oct 23, 2015	DISTRICT * 7C	
API NUMBER 42-105-42313	FORM W-1 RECEIVED Oct 16, 2015	COUNTY CROCKETT	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 34139.43	
OPERATOR EP ENERGY E&P COMPANY, L.P. ATTN CHELSEA CHAPMAN PO BOX 4660 HOUSTON, TX 77210-4660		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 SALT DRAW		WELL NUMBER 4101GH	
LOCATION 7.18 miles SE direction from BARNHART		TOTAL DEPTH 8999	
Section, Block and/or Survey SECTION 1 BLOCK 41 ABSTRACT 41 SURVEY UNIVERSITY LANDS			
DISTANCE TO SURVEY LINES 2288 ft. SOUTH 638 ft. EAST		DISTANCE TO NEAREST LEASE LINE 230 ft.	
DISTANCE TO LEASE LINES 8601 ft. NORTH 10307 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>			
FIELD NAME LEASE NAME		ACRES NEAREST LEASE	DEPTH NEAREST WE
----- LIN (WOLFCAMP) UNIVERSITY SALT DRAW -----		34139.43 230	7,000 1089
----- WELLBORE PROFILE(s) FOR FIELD: Horizontal -----			
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 8525.0 F NORTH L 10241.0 F WEST L Terminus Location BH County: CROCKETT Section: 30 Block: 40 Abstract: Survey: UNIVERSITY LANDS Lease Lines: 30.0 F NORTH L 6561.0 F WEST L Survey Lines: 30.0 F NORTH L 1384.0 F EAST L			
<p align="center">THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</p> <p>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.</p>			

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;">811281</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Oct 23, 2015</div>	DISTRICT <div style="text-align: center;">* 7C</div>										
API NUMBER <div style="text-align: right;">42-105-42313</div>	FORM W-1 RECEIVED <div style="text-align: center;">Oct 16, 2015</div>	COUNTY <div style="text-align: center;">CROCKETT</div>										
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;">34139.43</div>										
OPERATOR <div style="text-align: right;">253385</div> <div style="text-align: center;">EP ENERGY E&P COMPANY, L.P.</div> <div style="text-align: center;">ATTN CHELSEA CHAPMAN PO BOX 4660 HOUSTON, TX 77210-4660</div>		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: <div style="text-align: center;">(325) 657-7450</div>										
LEASE NAME <div style="text-align: center;">UNIVERSITY SALT DRAW</div>		WELL NUMBER <div style="text-align: center;">4101GH</div>										
LOCATION <div style="text-align: center;">7.18 miles SE direction from BARNHART</div>		TOTAL DEPTH <div style="text-align: center;">8999</div>										
Section, Block and/or Survey <div style="display: flex; justify-content: space-between;"> <div>SECTION ◀ 1</div> <div>BLOCK ◀ 41</div> <div>ABSTRACT ◀</div> </div> <div style="margin-top: 5px;">SURVEY ◀ UNIVERSITY LANDS</div>												
DISTANCE TO SURVEY LINES <div style="text-align: center;">2288 ft. SOUTH 638 ft. EAST</div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: center;">230 ft.</div>										
DISTANCE TO LEASE LINES <div style="text-align: center;">8601 ft. NORTH 10307 ft. WEST</div>		DISTANCE TO NEAREST WELL ON LEASE <div style="text-align: center;">See FIELD(s) Below</div>										
FIELD(s) and LIMITATIONS: <div style="text-align: center; margin-top: 20px;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</div> <div style="margin-top: 20px;"> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">FIELD NAME</td> <td style="width: 15%;">ACRES</td> <td style="width: 15%;">DEPTH</td> <td style="width: 10%;">WELL #</td> <td style="width: 10%;">DIST</td> </tr> <tr> <td>LEASE NAME</td> <td>NEAREST LEASE</td> <td></td> <td>NEAREST WE</td> <td></td> </tr> </table> </div> <div style="margin-top: 20px;"> 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. </div>			FIELD NAME	ACRES	DEPTH	WELL #	DIST	LEASE NAME	NEAREST LEASE		NEAREST WE	
FIELD NAME	ACRES	DEPTH	WELL #	DIST								
LEASE NAME	NEAREST LEASE		NEAREST WE									

**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.state.tx.us/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 16 October 2015**GAU Number:** 17026**Attention:** EP ENERGY E&P COMPANY,
ATTN CHELSEA CHAPMAN
HOUSTON, TX 77210**Operator No.:** 253385**API Number:**
County: CROCKETT
Lease Name: University Salt Draw
Lease Number: 18942
Well Number: 4101HH
Total Vertical Depth: 8999
Latitude: 31.036144
Longitude: -101.111625
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U321; Block-41; Section-1

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 800 feet must be protected.

This recommendation is applicable to all wells within a radius of 200 feet of this location.

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 10/15/2015. 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

NAD 83, Zone 4203

Surface Hole Location (SHL Sec. 1)
Latitude: 31.036310° N
Longitude: 101.112078° W
X=2052699.79
Y=10341488.54
Elev.=2610' Sc.
2288' FSL & 638' FEL

NAD 27, Zone 4203

Surface Hole Location (SHL Sec. 1)
Latitude: 31.036144° N
Longitude: 101.111689° W
X=1756232.75
Y=498909.76
Elev.=2610' Sc.
2288' FSL & 638' FEL

Point of Penetration (PP Sec. 1)
Latitude: 31.036352° N
Longitude: 101.111899° W
X=1756167.69
Y=498985.70
2364' FSL & 703' FEL

First Take Point (FTP Sec. 1)
Latitude: 31.038515° N
Longitude: 101.114082° W
X=1755489.55
Y=499777.24
2291' FNL & 1384' FEL

Last Take Point (LTP Sec.30 Blk.40)
Latitude: 31.059150° N
Longitude: 101.114172° W
X=1755513.79
Y=507282.07
230' FNL & 1384' FEL

Bottom Hole Location
(BHL Sec.30 Blk.40)
Latitude: 31.059700° N
Longitude: 101.114175° W
X=1755514.44
Y=507482.07
30' FNL & 1384' FEL

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. Acreage shown herein 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

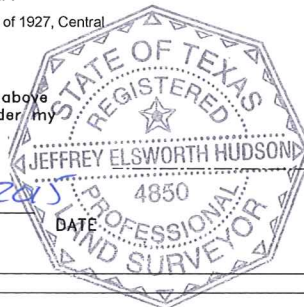
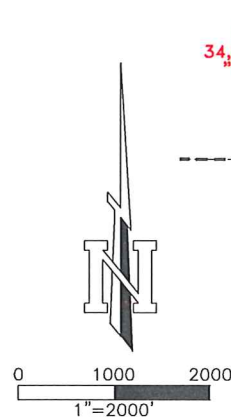
I, Jeffrey Elsworth Hudson do hereby certify that the above described well location was staked on the ground under my supervision, as shown.

JEFFREY ELSWORTH HUDSON
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 4850

EP ENERGY
Lease Name and Well Number
UNIVERSITY SALT DRAW 4101GH
Topography and Vegetation
SCATTERED MESQUITE and CACTUS

7.18 MILES SOUTHEAST OF BARNHART, TEXAS

Unit Boundary Distance	
SHL	8601' FNL & 10307' FWL
PP	8525' FNL & 10241' FWL
FTP	7735' FNL & 9561' FWL
LTP	230' FNL & 9561' FWL
BHL	30' FNL & 6561' FWL



KSA Energy Services

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tbpis firm reg. no. 1011500

EP ENERGY E&P COMPANY, L.P.

EPEN.178

University Salt Draw 4101GH
Block 41, Section 1
Crockett County, Texas