

API No. <u>42-383-39823</u> Drilling Permit # <u>823658</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 JOSEPH ARAIZA PO BOX 4660 HOUSTON, TX 77210-4660			
4. Lease Name UNIVERSITY CENTRAL		5. Well No. 0823DH					
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 REAGAN		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>11.42</u> miles in a <u>SW</u> direction from <u>BIG LAKE</u> which is the nearest town in the county of the well site.							
15. Section 23		16. Block 8		17. Survey UL		18. Abstract No. A-U158	
				19. Distance to nearest lease line: 100 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 38716.55	
21. Lease Perpendiculars: <u>8498</u> ft from the <u>S</u> line and <u>4062</u> ft from the <u>E</u> line. 22. Survey Perpendiculars: <u>2087</u> ft from the <u>N</u> line and <u>1216</u> ft from the <u>W</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	8999	383.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER Feb 22, 2017 9:34 PM]: This well is located within the University Central Drilling & Development Unit. FTP - 8456' S & 4031' E; LTP - 100' S & 11973' W				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge.			
				_____ Name of filer			
RRC Use Only				_____ Phone			
				_____ E-mail Address (OPTIONAL)			

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 #	823658
Approved Date:	Mar 03, 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 CENTRAL	4. Well No. 0823DH
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 26	7. Block 8	8. Survey UL	9. Abstract U161
10. County of BHL REAGAN			
11. Terminus Lease Line Perpendiculars 50 ft. from the S line. and 11973 ft. from the W line			
12. Terminus Survey Line Perpendiculars 50 ft. from the S line. and 1248 ft. from the W line			
13. Penetration Point Lease Line Perpendiculars 8506 ft. from the S line. and 4031 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 823658	DATE PERMIT ISSUED OR AMENDED Mar 03, 2017	DISTRICT * 7C	
API NUMBER 42-383-39823	FORM W-1 RECEIVED Feb 22, 2017	COUNTY REAGAN	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 38716.55	
OPERATOR EP ENERGY E&P COMPANY, L.P. ATTN JOSEPH ARAIZA PO BOX 4660 HOUSTON, TX 77210-4660		253385 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 CENTRAL		WELL NUMBER 0823DH	
LOCATION 11.42 miles SW direction from BIG LAKE		TOTAL DEPTH 8999	
Section, Block and/or Survey SECTION ◀ 23 BLOCK ◀ 8 ABSTRACT ◀ U158 SURVEY ◀ UL			
DISTANCE TO SURVEY LINES 2087 ft. N 1216 ft. W		DISTANCE TO NEAREST LEASE LINE 100 ft.	
DISTANCE TO LEASE LINES 8498 ft. S 4062 ft. E		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 LEASE
----- LIN (WOLFCAMP) UNIVERSITY CENTRAL -----		38716.55 100	8,999 383
----- WELLBORE PROFILE(s) FOR FIELD: Horizontal -----			
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 8506.0 F S L 4031.0 F E L Terminus Location BH County: REAGAN Section: 26 Block: 8 Abstract: U161 Survey: UL Lease Lines: 50.0 F S L 11973.0 F W L Survey Lines: 50.0 F S L 1248.0 F W L			
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

PERMIT NUMBER <div style="text-align: right;">823658</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Mar 03, 2017</div>	DISTRICT <div style="text-align: center;">* 7C</div>										
API NUMBER <div style="text-align: right;">42-383-39823</div>	FORM W-1 RECEIVED <div style="text-align: center;">Feb 22, 2017</div>	COUNTY <div style="text-align: center;">REAGAN</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;">38716.55</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 JOSEPH ARAIZA 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 CENTRAL</div>		WELL NUMBER <div style="text-align: center;">0823DH</div>										
LOCATION <div style="text-align: center;">11.42 miles SW direction from BIG LAKE</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 23 SURVEY UL </div> <div> BLOCK 8 </div> <div> ABSTRACT U158 </div> </div>												
DISTANCE TO SURVEY LINES <div style="text-align: center;">2087 ft. N 1216 ft. W</div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: center;">100 ft.</div>										
DISTANCE TO LEASE LINES <div style="text-align: center;">8498 ft. S 4062 ft. E</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; padding-top: 20px;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</div>												
<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> <p 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.</p>			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**

REAGAN (383) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
GRAYBURG	1,500	2,500		1	12/17/2013
QUEEN	1,900	2,500		2	12/17/2013
SAN ANDRES	2,000	5,000	saltwater flow, possibly heavy	3	12/17/2013
CLEARFORK	3,300	4,000		4	12/17/2013
SPRABERRY	3,300	10,000		5	12/17/2013
STRAWN	9,300	10,200		6	12/17/2013
FUSSELMAN	8,800	11,000		7	12/17/2013
ELLENBURGER	8,700	10,500		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: 08 March 2017**GAU Number:** 167962**Attention:** EP ENERGY E&P COMPANY,
ATTN JOSEPH ARAIZA
HOUSTON, TX 77210**Operator No.:** 253385**API Number:**
County: REAGAN
Lease Name: UNIVERSITY CENTRAL
Lease Number: 17575
Well Number: 0823FH
Total Vertical Depth: 8999
Latitude: 31.165809
Longitude: -101.649113
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U158; Block-8; Section-23

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 750 feet must be protected.

This recommendation is applicable for all wells drilled in this sec. 23.

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 02/23/2017. 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. 23)
Latitude: 31.165966° N
Longitude: 101.649639° W
X=1884913.29
Y=10390227.33
Elev.=2845'
2087' FNL & 1216' FWL

NAD 27, Central Zone 4203
Surface Hole Location (SHL Sec. 23)
Latitude: 31.165812° N
Longitude: 101.649240° W
X=1588445.45
Y=547650.61
Elev.=2845'
2087' FNL & 1216' FWL

Point of Penetration (PP Sec. 23)
Latitude: 31.165831° N
Longitude: 101.649139° W
X=1588477.13
Y=547657.36
2080' FNL & 1248' FWL

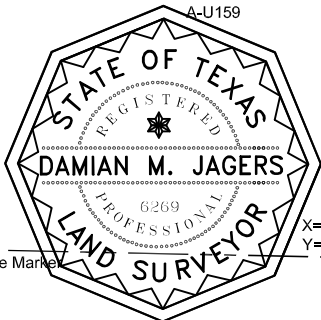
First Take Point (FTP Sec. 23)
Latitude: 31.165694° N
Longitude: 101.649140° W
X=1588476.10
Y=547607.37
2130' FNL & 1248' FWL

Last Take Point (LTP Sec. 26)
Latitude: 31.142720° N
Longitude: 101.649372° W
X=1588304.74
Y=539253.30
100' FSL & 1248' FWL

Bottom Hole Location (BHL Sec. 26)
Latitude: 31.142583° N
Longitude: 101.649374° W
X=1588303.71
Y=539203.31
50' FSL & 1248' FWL

Unit Boundary Distance	
SHL	8498' FSL & 4062' FEL
PP	8506' FSL & 4031' FEL
FTP	8456' FSL & 4031' FEL
LTP	100' FSL & 11973' FWL
BHL	50' FSL & 11973' FWL

EP ENERGY E&P COMPANY, L.P.
UNIVERSITY CENTRAL LEASE
38,716.545 ACRES (CALLED)



Well Name
UNIVERSITY CENTRAL 0823DH
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
11.42 MILES SOUTHWEST OF BIG LAKE, 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 2/20/2017
DAMIAN M. JAGERS
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269



EP ENERGY E&P COMPANY, L.P.

University Central 0823DH
Block 8, Section 23
Block 8, Section 26
Reagan County, Texas