

API No. <u>42-383-39687</u> Drilling Permit # <u>818421</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. 0810AV					
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 checked="" 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 type="checkbox"/> Horizontal (Also File Form W-1H) <input checked="" type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack							
8. Total Depth 10000		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>9.91</u> miles in a <u>NW</u> direction from <u>Big Lake</u> which is the nearest town in the county of the well site.							
15. Section 10		16. Block 08		17. Survey UNIVERSITY LANDS		18. Abstract No. A-	
				19. Distance to nearest lease line: 4937 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 38716.55	
21. Lease Perpendiculars: <u>5551</u> ft from the <u>NORTH</u> line and <u>13342</u> ft from the <u>WEST</u> line. 22. Survey Perpendiculars: <u>247</u> ft from the <u>NORTH</u> line and <u>2546</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	9000	10291.03	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1D attachment)							
Remarks [FILER Sep 27, 2016 9:16 AM]: This well is located within the University Central Drilling & Development Unit. This permit is being amended to change it from a vertical well to a directional well and to correct the lease acreage.; [RRC STAFF Sep 30, 2016 10:02 AM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Sep 30, 2016 1:40 PM]: Problems identified with this permit are resolved.; [RRC STAFF Sep 30, 2016 1:40 PM]: Linda Renken sent revised plat showing distance to nearest well from the bottom hole location.; [RRC STAFF Oct 4, 2016 8:59 AM]: Changed BHL survey call direction to match plat.				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <div style="text-align: center;"> LINDA RENKEN, Sr. Regulatory Analyst _____ Name of filer </div> <div style="text-align: center;"> Sep 27, 2016 _____ Date submitted </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> (713)9975138 _____ Phone </div> <div> linda.renken@epenergy.com _____ E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only							
Data Validation Time Stamp: Oct 4, 2016 10:03 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.*

Form W-1D 07/2004
Supplemental Directional Well Information

Permit #	818421
Approved Date:	Oct 04, 2016

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. 0810AV
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 03	7. Block 08	8. Survey UNIVERSITY LANDS	9. Abstract 10. County of BHL REAGAN
11. Botton hole Lease Line Perpendiculars 4937 ft. from the North line. and 10212 ft. from the West line 12. Bottom hole Survey Line Perpendiculars # 367 ft. from the South line. and 2270 ft. from the W line			

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

Data Validation Time Stamp: Oct 4, 2016 10:20 AM(Current Version)

**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: 14 September 2016**GAU Number:** 160124**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: 0810AV
Total Vertical Depth: 10000
Latitude: 31.199819
Longitude: -101.627165
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Block-8; Section-10

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 975 feet must be protected.

Please send Gamma Ray/Porosity log of this well when it is available.

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 09/14/2016. 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, Central Zone 4203

Surface Hole Location (Sec. 10)
Latitude: 31.199972° N
Longitude: 101.627564° W
X=1891960.84
Y=10402514.01
Elev.=2832'
247' FNL & 2546' FEL

NAD 27, Central Zone 4203

Surface Hole Location (Sec. 10)
Latitude: 31.199819° N
Longitude: 101.627165° W
X=1595492.92
Y=559937.26
Elev.=2832'
247' FNL & 2546' FEL

NAD 27, Central Zone 4203

Bottom Hole Location (Sec. 3)
Latitude: 31.201517° N
Longitude: 101.628628° W
X=1595042.74
Y=560559.93
367' FSL & 2270' FEL

Lease Boundary Distance

SHL = 5551' FNL & 13342' FWL
BHL = 4937' FNL & 10212' FWL

UNIVERSITY LANDS
BLOCK 08, SECTION 03

API#32223
Dry Hole

UNIVERSITY LANDS
BLOCK 08, SECTION 04

API#32190
Plugged Oil Well

10212' to West Lease Boundary

2270'

BHL

4937 to North Lease Boundary

5551 to North Lease Boundary

367'

N26°51'59"W

789'-96'

S88° 50' 08"E 5278.29'

X=1598043.38
Y=560132.33

13342' to West Lease Boundary

University Central 0812CH (Closest Permitted Well)
Bears S 59°30'27" W, 10291.03'

University Central 0812CH (Closest Permitted Well)
Bears S 63°43'46" W, 10391.19'

University Central 0810AV

2546'

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

API#31735
Dry Hole

UNIVERSITY LANDS
BLOCK 08, SECTION 11

N1° 09' 24"E 5303.67'

Conc. Mon. Fnd @ SWC of Section 10
Bears S 29°32'30" W, 5747.44' for Reference

UNIVERSITY LANDS
BLOCK 08, SECTION 10

S1° 09' 58"W 5304.58'

UNIVERSITY LANDS
BLOCK 08, SECTION 09

Fnd. Concrete Mon.
X=1592659.10
Y=554937.01

N88° 49' 32"W 5252.43'

UNIVERSITY LANDS
BLOCK 08, SECTION 15

EP ENERGY

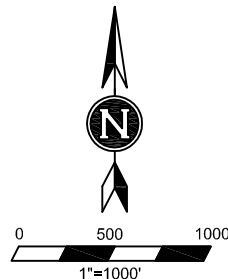
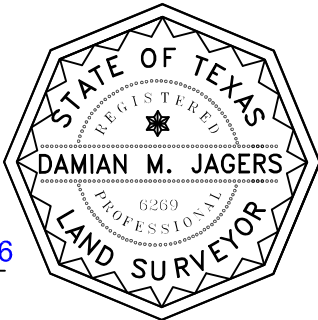
Well Name
UNIVERSITY CENTRAL 0810AV
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
9.91 MILES NORTH WEST OF BIG LAKE, TEXAS

I, Damian M. Jagers do hereby certify that this plat was prepared from a survey made on the ground under my supervision.

Damian M. Jagers 9/30/2016

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

DATE



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



Proposed Well Plat
For
EP Energy E&P Company, L.P.

University Central 0810AV
University Lands Block 08, Section 10
Reagan County, Texas