

API No. <u>42-383-39651</u> Drilling Permit # <u>816744</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. 0824OH				
GENERAL INFORMATION							
6. Purpose of filing (mark ALL appropriate boxes): ☒ New Drill ☐ Recompletion ☐ Reclass ☐ Field Transfer ☐ Re-Enter ☐ Amended ☐ Amended as Drilled (BHL) (Also File Form W-1D)							
7. Wellbore Profile (mark ALL appropriate boxes): ☐ Vertical ☒ Horizontal (Also File Form W-1H) ☐ Directional (Also File Form W-1D) ☐ Sidetrack							
8. Total Depth 8900		9. Do you have the right to develop the minerals under any right-of-way ? ☒ Yes ☐ No		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? ☐ Yes ☒ No			
SURFACE LOCATION AND ACREAGE INFORMATION							
11. RRC District No. 7C		12. County REAGAN		13. Surface Location ☒ Land ☐ Bay/Estuary ☐ Inland Waterway ☐ Offshore			
14. This well is to be located <u>11.25</u> miles in a <u>W</u> direction from <u>Big Lake</u> which is the nearest town in the county of the well site.							
15. Section 24		16. Block 8		17. Survey UL		18. Abstract No. A-U159	
				19. Distance to nearest lease line: 135 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 38634.63	
21. Lease Perpendiculars: <u>9188</u> ft from the <u>SOUTH</u> line and <u>4735</u> ft from the <u>WEST</u> line. 22. Survey Perpendiculars: <u>1399</u> ft from the <u>NORTH</u> line and <u>599</u> ft from the <u>EAST</u> line.							
23. Is this a pooled unit? ☐ Yes ☒ No			24. Unitization Docket No:		25. Are you applying for Substandard Acreage Field? ☐ Yes (attach Form W-1A) ☒ 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	
7C	53613750	LIN (WOLFCAMP)			Oil or Gas Well	7600	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER Jun 30, 2016 5:20 PM]: This well is located within the University Central Drilling & Development Unit. FTP = 9147' FSL & 4632' FWL LTP = 135' FSL & 10029' FWL; [RRC STAFF Jul 6, 2016 11:15 AM]: SHL and BHL abstract information added, per GIS.					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 <u>Jun 30, 2016</u> Date submitted <u>(713)9975138</u> <u>linda.renken@epenergy.com</u> Phone E-mail Address (OPTIONAL)		
RRC Use Only Data Validation Time Stamp: Jul 9, 2016 2:55 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 #	816744
Approved Date:	Jul 06, 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. 0824OH
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 24	7. Block 8	8. Survey UL / A-U160	9. Abstract
		10. County of BHL REAGAN	
11. Terminus Lease Line Perpendiculars 60 ft. from the South line. and 10029 ft. from the West line			
12. Terminus Survey Line Perpendiculars 60 ft. from the South line. and 691 ft. from the East line			
13. Penetration Point Lease Line Perpendiculars 9151 ft. from the South line. and 4642 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 816744	DATE PERMIT ISSUED OR AMENDED Jul 06, 2016	DISTRICT * 7C			
API NUMBER 42-383-39651	FORM W-1 RECEIVED Jun 30, 2016	COUNTY REAGAN			
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 38634.63			
OPERATOR 253385 EP ENERGY E&P COMPANY, L.P. ATTN JOSEPH ARAIZA 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 CENTRAL		WELL NUMBER 0824OH			
LOCATION 11.25 miles W direction from BIG LAKE		TOTAL DEPTH 8900			
Section, Block and/or Survey SECTION ◀ 24 BLOCK ◀ 8 ABSTRACT ◀ U159 SURVEY ◀ UL					
DISTANCE TO SURVEY LINES 1399 ft. NORTH 599 ft. EAST		DISTANCE TO NEAREST LEASE LINE 135 ft.			
DISTANCE TO LEASE LINES 9188 ft. SOUTH 4735 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below			
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *					
FIELD NAME LEASE NAME		ACRES NEAREST LEASE	DEPTH NEAREST LEASE	WELL # NEAREST WE	DIST
----- LIN (WOLFCAMP) UNIVERSITY CENTRAL -----		38634.63 135	7,600 265	0824OH 265	7C
----- WELLBORE PROFILE(s) FOR FIELD: Horizontal -----					
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 9151.0 F SOUTH L 4642.0 F WEST L Terminus Location BH County: REAGAN Section: 24 Block: 8 Abstract: Survey: UL / A-U160 Lease Lines: 60.0 F SOUTH L 10029.0 F WEST L Survey Lines: 60.0 F SOUTH L 691.0 F EAST 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 816744	DATE PERMIT ISSUED OR AMENDED Jul 06, 2016	DISTRICT * 7C										
API NUMBER 42-383-39651	FORM W-1 RECEIVED Jun 30, 2016	COUNTY REAGAN										
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 38634.63										
OPERATOR 253385 EP ENERGY E&P COMPANY, L.P. ATTN JOSEPH ARAIZA 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 CENTRAL		WELL NUMBER 0824OH										
LOCATION 11.25 miles W direction from BIG LAKE		TOTAL DEPTH 8900										
Section, Block and/or Survey SECTION 24 BLOCK 8 ABSTRACT U159 SURVEY UL												
DISTANCE TO SURVEY LINES 1399 ft. NORTH 599 ft. EAST		DISTANCE TO NEAREST LEASE LINE 135 ft.										
DISTANCE TO LEASE LINES 9188 ft. SOUTH 4735 ft. WEST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below										
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *												
<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> 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.			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: 11 July 2016**GAU Number:** 156723**Attention:** EP ENERGY E&P COMPANY,
ATTN JOSEPH ARAIZA
HOUSTON, TX 77210**Operator No.:** 253385**API Number:** 38339652
County: REAGAN
Lease Name: UNIVERSITY CENTRAL
Lease Number: 17575
Well Number: 0824PH
Total Vertical Depth: 8900
Latitude: 31.167751
Longitude: -101.654963
Datum: NAD27**Purpose:** New Drill**Location:** Survey-UL; Abstract-U159; Block-8; Section-24

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 725 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 07/09/2016. 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

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, Zone 4203

Surface Hole Location (SHL Sec. 24)
Latitude: 31.167906° N
Longitude: 101.655425° W
X=1883112.08
Y=10390954.32
Elev.=2841'
1399' FNL & 599' FEL

NAD 27, Zone 4203

Surface Hole Location (SHL Sec. 24)
Latitude: 31.167752° N
Longitude: 101.655026° W
X=1586644.22
Y=548377.61
Elev.=2841'
1399' FNL & 599' FEL

Point of Penetration (PP Sec. 24)

Latitude: 31.167652° N
Longitude: 101.655324° W
X=1586550.61
Y=548342.43
1436' FNL & 692' FEL

First Take Point (FTP Sec. 24)

Latitude: 31.167642° N
Longitude: 101.655355° W
X=1586540.91
Y=548338.78
1440' FNL & 702' FEL

Last Take Point (LTP Sec. 25)

Latitude: 31.142863° N
Longitude: 101.655569° W
X=1586366.86
Y=539328.09
135' FSL & 691' FEL

Bottom Hole Location (BHL Sec. 25)

Latitude: 31.142656° N
Longitude: 101.655571° W
X=1586365.32
Y=539253.11
60' FSL & 691' FEL

Unit Boundary Distance		
SHL	9188' FSL & 4735' FWL	
PP	9151' FSL & 4642' FWL	
FTP	9147' FSL & 4632' FWL	
LTP	135' FSL & 10029' FWL	
BHL	160' FSL & 10029' FWL	



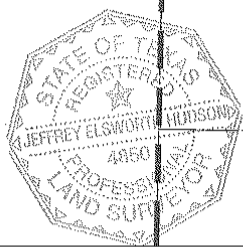
0 1000 2000
1"=2000'

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
JEFFREY ELSWORTH HUDSON
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 4850
DATE *Feb 16 2016*



EP ENERGY[®]
Lease Name and Well Number
UNIVERSITY CENTRAL 0824OH
Topography and Vegetation
SCATTERED MESQUITE and CACTUS
Nearest Town
1125 MILES WEST OF BIG LAKE, TEXAS

UNIVERSITY LAND
BLOCK 1

UNIVERSITY LAND
BLOCK 8

EP ENERGY
E&P COMPANY, L.P.
38,634.632 Acres (Calcd)
"University Central"

UNIVERSITY LAND
BLOCK 7

EP ENERGY E&P COMPANY, L.P.

EPEN.352

University Central 0824OH
Block 8, Section 24
Reagan County, Texas

KSA Energy
Services

1st E. Tyler St. Ste 600 | Longview, Texas 75601
T. 903-235-7200 F. 903-235-7179
www.ksaenergy.com