

API No. <u>42-383-39687</u> Drilling Permit # <u>818421</u> SWR Exception Case/Docket No. _____		<b>RAILROAD COMMISSION OF TEXAS</b> <b>OIL &amp; GAS DIVISION</b> <b>APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER</b> <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>				<b>FORM W-1</b> 07/2004 Permit Status: <b>Approved</b>	
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</b> <b>PO BOX 4660</b> <b>HOUSTON, TX 77210-4660</b>			
4. Lease Name <b>UNIVERSITY CENTRAL</b>		5. Well No. <b>0810AV</b>					
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 checked="" type="checkbox"/> Vertical <input 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>10000</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			
SURFACE LOCATION AND ACREAGE INFORMATION							
11. RRC District No. <b>7C</b>		12. County <b>REAGAN</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>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 <b>10</b>		16. Block <b>08</b>		17. Survey <b>UNIVERSITY LANDS</b>		18. Abstract No. <b>A-</b>	
				19. Distance to nearest lease line: <b>5551</b> ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: <b>38634.63</b>	
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 <b>List all fields of anticipated completion including Wildcat. List one zone per line.</b>							
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	10391.19	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS							
<b>Remarks</b> [FILER Sep 13, 2016 12:46 PM]: This well is located within the University Central Drilling & Development Unit.				<b>Certificate:</b> I certify that information stated in this application is true and complete, to the best of my knowledge. <b>LINDA RENKEN, Sr. Regulatory Analyst</b> Name of filer _____ Date submitted <b>Sep 13, 2016</b> <u>(713)9975138</u> <u>linda.renken@epenergy.com</u> Phone E-mail Address (OPTIONAL)			
RRC Use Only Data Validation Time Stamp: Sep 16, 2016 10:48 AM( Current Version )							

**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;">818421</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Sep 16, 2016</div>	DISTRICT <div style="text-align: center;">* 7C</div>																					
API NUMBER <div style="text-align: right;">42-383-39687</div>	FORM W-1 RECEIVED <div style="text-align: center;">Sep 13, 2016</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;">Vertical</div>	ACRES <div style="text-align: center;">38634.63</div>																					
OPERATOR <div style="text-align: right;">253385</div> <div style="text-align: center;">EP ENERGY E&amp;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. <b>District Office Telephone No:</b> <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;">0810AV</div>																					
LOCATION <div style="text-align: center;">9.91 miles NW direction from BIG LAKE</div>		TOTAL DEPTH <div style="text-align: center;">10000</div>																					
Section, Block and/or Survey <div style="display: flex; justify-content: space-between;"> <div>SECTION ◀ 10</div> <div>BLOCK ◀ 08</div> <div>ABSTRACT ◀</div> </div> <div style="display: flex; justify-content: space-between;"> <div>SURVEY ◀ UNIVERSITY LANDS</div> <div></div> </div>																							
DISTANCE TO SURVEY LINES <div style="text-align: center;">247 ft. NORTH    2546 ft. EAST</div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: center;">5551 ft.</div>																					
DISTANCE TO LEASE LINES <div style="text-align: center;">5551 ft. NORTH    13342 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;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</div>																							
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">FIELD NAME LEASE NAME</th> <th style="width: 10%;">ACRES NEAREST LEASE</th> <th style="width: 10%;">DEPTH</th> <th style="width: 15%;">WELL # NEAREST WE</th> <th style="width: 5%;">DIST</th> </tr> </thead> <tbody> <tr> <td>-----</td> <td>-----</td> <td>-----</td> <td>-----</td> <td>---</td> </tr> <tr> <td>LIN (WOLFCAMP)</td> <td style="text-align: center;">38634.63</td> <td style="text-align: center;">9,000</td> <td style="text-align: center;">0810AV</td> <td style="text-align: center;">7C</td> </tr> <tr> <td>UNIVERSITY CENTRAL</td> <td style="text-align: center;">5551</td> <td></td> <td style="text-align: center;">10391.19</td> <td></td> </tr> </tbody> </table>				FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH	WELL # NEAREST WE	DIST	-----	-----	-----	-----	---	LIN (WOLFCAMP)	38634.63	9,000	0810AV	7C	UNIVERSITY CENTRAL	5551		10391.19	
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LIN (WOLFCAMP)	38634.63	9,000	0810AV	7C																			
UNIVERSITY CENTRAL	5551		10391.19																				
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.																							
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.																							

**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.

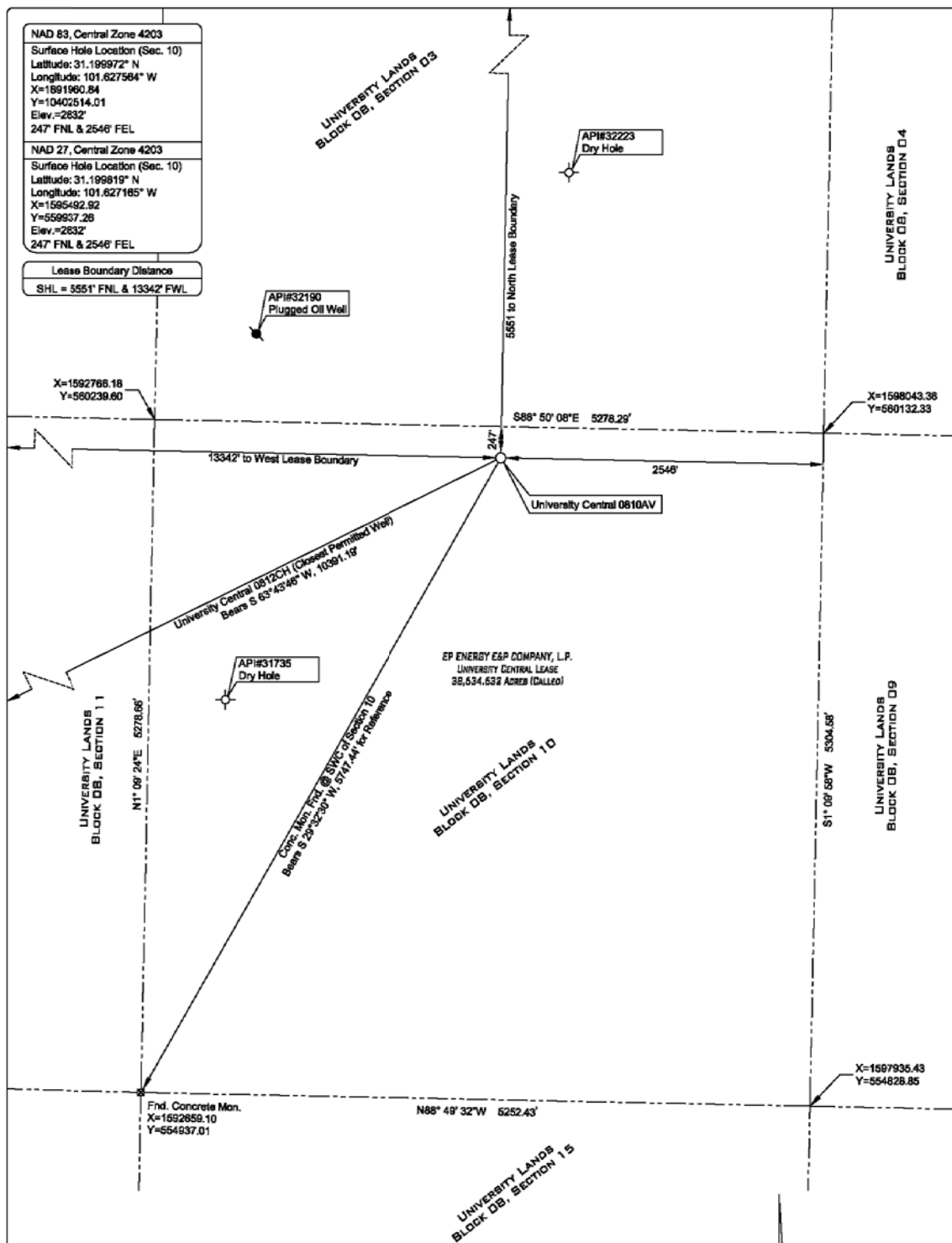
Groundwater Advisory Unit, Oil and Gas Division

Form GW-2      P.O. Box 12967   Austin, Texas   78771-2967      512-463-2741      Internet address: [www.rrc.texas.gov](http://www.rrc.texas.gov)  
Rev. 02/2014

NAD 83, Central Zone 4203  
 Surface Hole Location (Sec. 10)  
 Latitude: 31.199972° N  
 Longitude: 101.627584° 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: 101.627185° W  
 X=1595492.92  
 Y=559537.28  
 Elev.=2632'  
 247' FNL & 2546' FEL

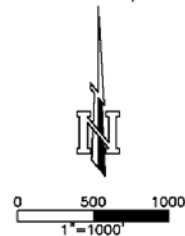
Lease Boundary Distance  
 SHL = 5551' FNL & 13342' FWL



**EP ENERGY**  
 Well Name  
 UNIVERSITY CENTRAL 0810AV  
 Drilling Field  
 LIN (WOLF CAMP) 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* 9/6/2016  
 DAMIAN M. JAGERS DATE  
 REGISTERED PROFESSIONAL LAND SURVEYOR  
 TEXAS REGISTRATION NO. 6269



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