

API No. <u>42-461-40574</u> Drilling Permit # <u>824806</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 WEST		5. Well No. 0504CH					
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 8999		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 UPTON		13. Surface Location ☒ Land ☐ Bay/Estuary ☐ Inland Waterway ☐ Offshore			
14. This well is to be located <u>9.85</u> miles in a <u>SE</u> direction from <u>RANKIN</u> which is the nearest town in the county of the well site.							
15. Section 4		16. Block 5		17. Survey UL		18. Abstract No. A-U76	
				19. Distance to nearest lease line: 135 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 6538.3	
21. Lease Perpendiculars: <u>3898</u> ft from the <u>S</u> line and <u>696</u> ft from the <u>W</u> line.							
22. Survey Perpendiculars: <u>1261</u> ft from the <u>S</u> line and <u>696</u> ft from the <u>W</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	31. Distance to Nearest Well in this Reservoir	
7C	53613750	LIN (WOLFCAMP)		Oil or Gas Well	8999	353.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER Mar 24, 2017 4:47 PM]: This well is located within the University Central Drilling & Development Unit. FTP - 5361' S & 713' W; LTP - 51' N & 713' W; [RRC STAFF Mar 30, 2017 11:02 AM]: Lease line exception identified. Payment and resolution required.; [RRC STAFF Apr 3, 2017 2:55 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Apr 5, 2017 4:50 PM]: Problems identified with this permit are resolved.				Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge. <u>Jessica High, Regulatory Analyst II</u> Name of filer <u>(713)9976632</u> Phone <u>Mar 24, 2017</u> Date submitted <u>jessica.high@epenergy.com</u> E-mail Address (OPTIONAL)			
RRC Use Only							
Data Validation Time Stamp: Apr 6, 2017 11:09 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 #	824806
Approved Date:	Apr 05, 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 WEST	4. Well No. 0504CH
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 33	7. Block 4	8. Survey UL	9. Abstract
		10. County of BHL UPTON	
11. Terminus Lease Line Perpendiculars 60 ft. from the N line. and 713 ft. from the W line			
12. Terminus Survey Line Perpendiculars 60 ft. from the N line. and 713 ft. from the W line			
13. Penetration Point Lease Line Perpendiculars 5261 ft. from the S line. and 713 ft. from the N 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 824806	DATE PERMIT ISSUED OR AMENDED Apr 05, 2017	DISTRICT * 7C			
API NUMBER 42-461-40574	FORM W-1 RECEIVED Mar 24, 2017	COUNTY UPTON			
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 6538.3			
OPERATOR 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 WEST		WELL NUMBER 0504CH			
LOCATION 9.85 miles SE direction from RANKIN		TOTAL DEPTH 8999			
Section, Block and/or Survey SECTION ◀ 4 BLOCK ◀ 5 ABSTRACT ◀ U76 SURVEY ◀ UL					
DISTANCE TO SURVEY LINES 1261 ft. S 696 ft. W		DISTANCE TO NEAREST LEASE LINE 135 ft.			
DISTANCE TO LEASE LINES 3898 ft. S 696 ft. W		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 WEST -----		6538.30 135	8,999 353	0504CH 353	7C
----- WELLBORE PROFILE(s) FOR FIELD: Horizontal -----					
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 5261.0 F S L 713.0 F N L Terminus Location BH County: UPTON Section: 33 Block: 4 Abstract: Survey: UL Lease Lines: 60.0 F N L 713.0 F W L Survey Lines: 60.0 F N L 713.0 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.					

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OIL & GAS DIVISION

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

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TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 6538.3
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 WEST		WELL NUMBER 0504CH
LOCATION 9.85 miles SE direction from RANKIN		TOTAL DEPTH 8999
Section, Block and/or Survey SECTION ◀ 4 BLOCK ◀ 5 ABSTRACT ◀ U76 SURVEY ◀ UL		
DISTANCE TO SURVEY LINES 1261 ft. S 696 ft. W		DISTANCE TO NEAREST LEASE LINE 135 ft.
DISTANCE TO LEASE LINES 3898 ft. S 696 ft. W		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: * SEE FIELD DISTRICT FOR REPORTING PURPOSES * FIELD NAME ACRES DEPTH WELL # DIST LEASE NAME NEAREST LEASE NEAREST WE 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**

UPTON (461) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
YATES	1,100	1,200		1	12/17/2013
GRAYBURG	1,600	3,000		2	12/17/2013
SAN ANDRES	2,500	3,500	saltwater flow	3	12/17/2013
SPRABERRY	4,500	7,000		4	12/17/2013
WOLFCAMP	7,500	9,900		5	12/17/2013
STRAWN	7,900	9,800		6	12/17/2013
DEVONIAN	6,300	12,000		7	12/17/2013
FUSSELMAN	11,000	12,100		8	12/17/2013
ELLENBURGER	7,900	12,400		9	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: 04 April 2017

GAU Number: 169450

Attention: EP ENERGY E&P COMPANY,
ATTN JOSEPH ARAIZA
HOUSTON, TX 77210

Operator No.: 253385

API Number:
County: UPTON
Lease Name: UNIVERSITY WEST
Lease Number:
Well Number: 0504CH
Total Vertical Depth: 8999
Latitude: 31.118035
Longitude: -101.823485
Datum: NAD27

Purpose: New Drill

Location: Survey-UL; Abstract-U76; Block-5; Section-4

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 20 feet below the base of the Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth between 750 and 800 feet.

This recommendation is applicable to all wells within a radius of 1200 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 03/24/2017. 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. 4)
Latitude: 31.118191° N
Longitude: 101.823889° W
X=1830187.34
Y=10373540.02
Elev.=2809'
1261' FSL & 696' FWL

NAD 27, Central Zone 4203

Surface Hole Location (SHL Sec. 4)
Latitude: 31.118037° N
Longitude: 101.823485° W
X=1533720.00
Y=530963.92
Elev.=2809'
1261' FSL & 696' FWL

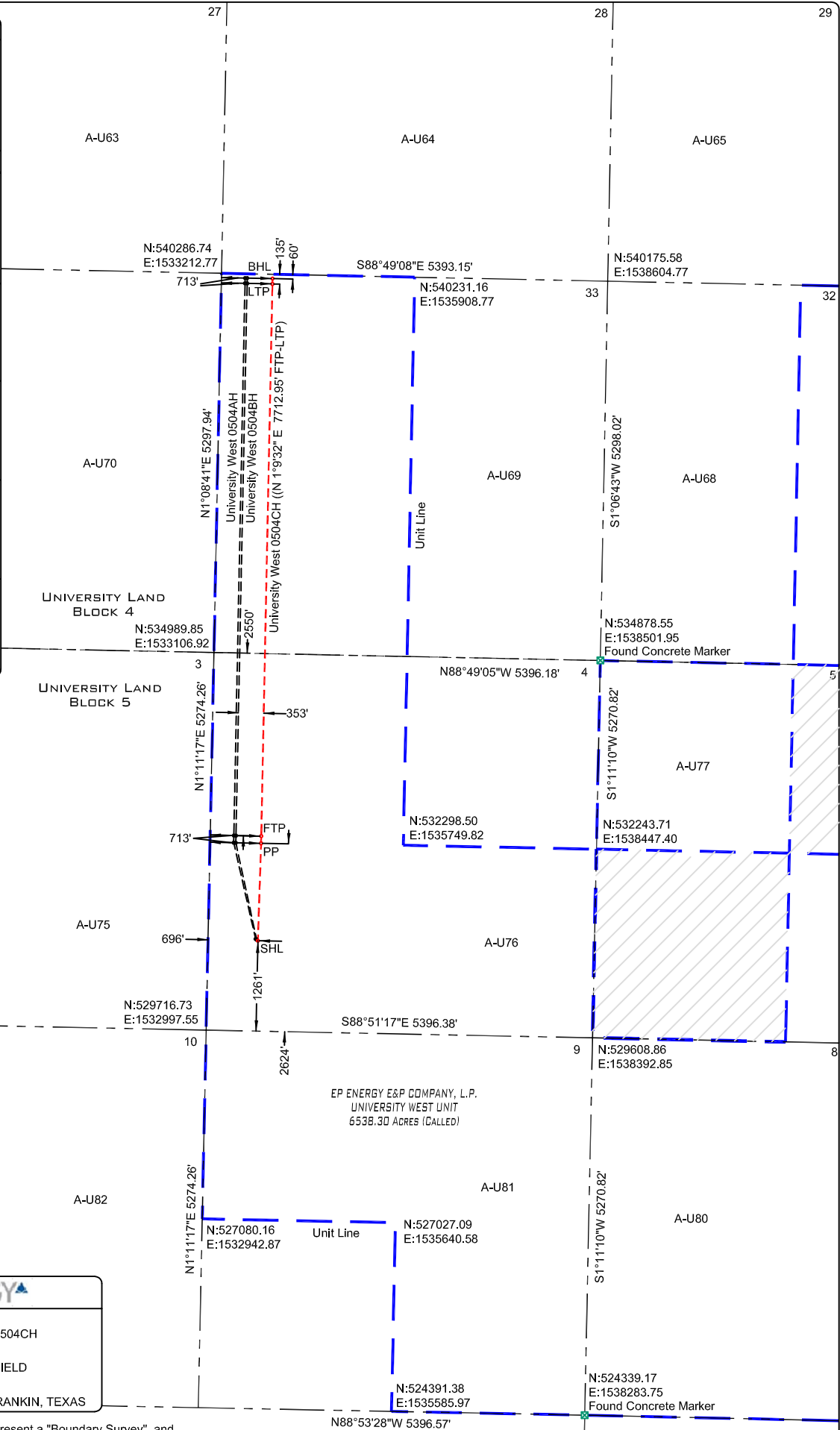
Point of Penetration (PP Sec. 4)
Latitude: 31.121783° N
Longitude: 101.823400° W
X=1533764.87
Y=532325.72
2624' FSL & 713' FWL

First Take Point (FTP Sec. 4)
Latitude: 31.122058° N
Longitude: 101.823398° W
X=1533766.89
Y=532425.70
2550' FNL & 713' FWL

Last Take Point (LTP Sec. 33)
Latitude: 31.143264° N
Longitude: 101.823229° W
X=1533922.90
Y=540137.07
135' FNL & 713' FWL

Bottom Hole Location (BHL Sec. 33)
Latitude: 31.143470° N
Longitude: 101.823228° W
X=1533924.41
Y=540212.05
60' FNL & 713' FWL

Unit Boundary Distance	
SHL	3898' FSL & 696' FWL
PP	5261' FSL & 713' FWL
FTP	5361' FSL & 713' FWL
LTP	135' FNL & 713' FWL
BHL	60' FNL & 713' FWL



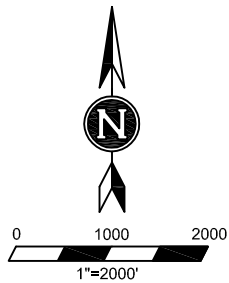
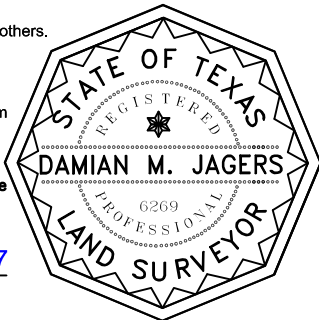
Well Name
UNIVERSITY WEST 0504CH
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
9.85 MILES SOUTHEAST OF RANKIN, TEXAS

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 4/3/2017
DAMIAN M. JAGERS DATE
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269



EP ENERGY E&P COMPANY, L.P.

UNIVERSITY WEST 0504CH
Block 5, Section 4
Block 4, Section 33
Upton County, Texas