

April 18, 2017

The Railroad Commission of Texas
Oil and Gas Division
PO Drawer 12967
Capital Station
Austin, Texas 78711-2967

Attn: Pam Johns

RE: EP Energy E&P Company, L.P.
University Central 0823DH (Permit No. 823658)
Survey: UL / Abstract: U158
Field: LIN (Wolfcamp)
Reagan County, TX
API number: 42-383-39823

Dear Pam Johns:

Please find enclosed the original and one copy of the survey performed on the above referenced well by MS Energy Services; RRC Operator No. 592474. Other information required by your office is as follows:

Name of surveyor	Drainhole number	Surveyed depths	Date performed	Type of Survey
James Benson	Original	Surface - 808'	4/7/2017 - 4/7/2017	Rate Gyro

A certified plat, on which the bottom hole location is oriented, both to the surface location and to the lease lines (or unit lines in case of pooling), is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Ryan Moran
MS Survey

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: * SEE FIELD DISTRICT FOR REPORTING PURPOSES *					
FIELD NAME LEASE NAME		ACRES NEAREST LEASE	DEPTH NEAREST WE	WELL # NEAREST WE	DIST
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LIN (WOLFCAMP) UNIVERSITY CENTRAL		38716.55 100	8,999	0823DH 383	7C
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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.					



Job Number: SVMO-170261
 Company: EP Energy E&P Co.
 Lease/Well: University Central 0823DH
 Location: Crockett County, TX
 Rig Name: Production
 RKB: 0'
 G.L. or M.S.L.: GL

State/Country: Texas/USA (X 1884913.29) (Y 10390227.33)
 Declination: Declination See Details Below - NAD 27
 Grid: East To Grid North
 File name: C:\WINSER~1\2017\EPENER~1\MO\UNIVER~1\CENTRAL\0823DH.SVY
 Date/Time: 10-Apr-17 / 16:10
 Curve Name: Surface - 808' M.D. (Rate Gyro)

MS Energy

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Declination To True North: 6.04°
 Grid Convergence Factor: -0° 40' 39.73093"
 Total Correction Mag to Grid: 6.71°

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
50.00	.84	98.35	50.00	-.05	.36	-.05	.37	98.35	1.68
100.00	.85	98.73	99.99	-.16	1.09	-.16	1.10	98.48	.02
150.00	.79	95.32	149.99	-.25	1.80	-.25	1.82	97.93	.15
200.00	.64	88.62	199.98	-.28	2.42	-.28	2.44	96.50	.34
250.00	.50	87.19	249.98	-.26	2.92	-.26	2.93	95.06	.28
300.00	.47	63.41	299.98	-.16	3.32	-.16	3.33	92.69	.40
350.00	.19	59.37	349.98	-.02	3.58	-.02	3.58	90.36	.56
400.00	.21	57.02	399.98	.07	3.73	.07	3.73	88.93	.04
450.00	.06	146.46	449.98	.10	3.82	.10	3.82	88.53	.44
500.00	.28	185.91	499.98	-.05	3.82	-.05	3.82	90.68	.47
550.00	.28	207.49	549.98	-.28	3.75	-.28	3.76	94.20	.21
600.00	.38	192.89	599.98	-.55	3.66	-.55	3.70	98.48	.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
650.00	.33	188.11	649.98	-.85	3.60	-.85	3.70	103.28	.12
700.00	.41	164.50	699.97	-1.16	3.63	-1.16	3.81	107.80	.34
750.00	.56	157.57	749.97	-1.56	3.77	-1.56	4.08	112.53	.32
800.00	.28	151.85	799.97	-1.90	3.92	-1.90	4.35	115.83	.57
Last Survey Depth Recorded									
808.00	.26	147.94	807.97	-1.93	3.94	-1.93	4.38	116.10	.34

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)

A-U147

A-U146

A-U145

A-U148

A-U149

A-U150

Multi-Shot Bottom Hole Loc. 4.38' @ 116.10° Azm
of Surface Location.

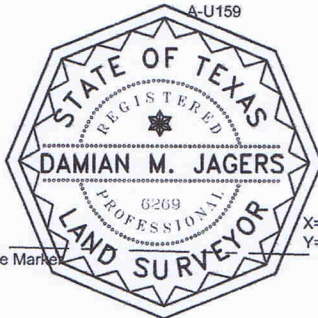
MD 808.00'

TVD 807.97'

South 1.93'

East 3.94'

UNIVERSITY LAND
BLOCK 08



EP ENERGY

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



0 1000 2000
1"=2000'



1503 DARTMOUTH ST, LONGVIEW, TX 75601
Phone: 254-955-8888 Fax: 254-955-5715
www.xtsurvey.com

EP ENERGY E&P COMPANY, L.P.

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

Surveyor Certification Form

Survey company: MS Energy Services
Surveyors name: James Benson
Survey job type: Rate Gyro
Customer: EP Energy E&P Company, L.P.
Well: University Central 0823DH
API: 42-383-39823
Surveyed from: Surface to a depth of 808' MD
Survey run date: 4/7/2017 to 4/7/2017
Surface location: Reagan County, TX

I certify that the data is true, correct, complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MS Energy Services.

James Benson

Digitally signed by James Benson
DN: cn=James Benson, o=MS Energy Services, ou=MS Survey, email=JBenson@msenergyservices.com, c=US
Date: 2017.04.18 08:30:24 -05'00'