



3335 Pollok Drive
Conroe, Texas 77303

936.442.2500 (Office)
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www.msenergyservices.com

August 1, 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 East 4128EH (Permit No. 828181)
Survey: UL / Abstract: U348
Field: LIN (Wolfcamp)
Crockett County, TX
API number: 42-105-42411

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
Eric Zirngible	Original	Surface - 859'	7/17/2017 - 7/17/2017	SRG

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

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

Page 3 of 5



Job Number: SVM0-170494
 Company: EP Energy E&P Co.
 Lease/Well: University East 4128EH
 Location: Crockett County, TX
 Rig Name: Mast
 RKB: 0'
 G.L. or M.S.L.: GL

State/Country: Texas/USA (X 17377190.7) (Y 477995.6)
 Declination: Declination See Details Below - NAD 27
 Grid: East To Grid North
 File name: C:\WINSER~1\2017\EPENER~1\MO\UNIVER~1\EAST4128EH.SVY
 Date/Time: 18-Jul-17 / 14:01
 Curve Name: Surface - 859' M.D. (SRG)

MS Energy

Declination To True North: 5.75°
 Grid Convergence Factor: -0° 25' 55.32332"
 Total Correction Mag to Grid: 6.18°

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

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
50.00	.13	318.88	50.00	.04	-.04	.04	.06	318.89	.26
100.00	.31	229.10	100.00	.00	-.18	.00	.18	269.00	.67
150.00	.32	211.60	150.00	-.21	-.35	-.21	.41	239.13	.19
200.00	.28	207.39	200.00	-.44	-.48	-.44	.65	227.72	.09
250.00	.27	205.30	250.00	-.65	-.59	-.65	.88	222.01	.03
300.00	.26	207.21	300.00	-.86	-.69	-.86	1.10	218.74	.03
350.00	.21	201.72	350.00	-1.05	-.78	-1.05	1.30	216.57	.11
400.00	.22	208.43	400.00	-1.22	-.86	-1.22	1.49	215.14	.05
450.00	.13	165.19	450.00	-1.36	-.89	-1.36	1.62	213.21	.31
500.00	.21	141.18	500.00	-1.48	-.82	-1.48	1.69	208.82	.21
550.00	.04	117.56	550.00	-1.56	-.74	-1.56	1.73	205.43	.35
600.00	.03	25.79	600.00	-1.56	-.72	-1.56	1.72	204.84	.10

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	.11	.92	650.00	-1.50	-.71	-1.50	1.66	205.51	.17
700.00	.26	348.22	700.00	-1.34	-.74	-1.34	1.53	208.84	.31
750.00	.29	342.53	749.99	-1.11	-.80	-1.11	1.36	215.80	.08
800.00	.55	329.06	799.99	-.78	-.96	-.78	1.24	230.89	.55
850.00	.61	342.94	849.99	-.32	-1.16	-.32	1.20	254.60	.30
Last Survey Depth Recorded									
859.00	.46	359.57	858.99	-.24	-1.18	-.24	1.20	258.56	2.38

NAD 83, Central Zone 4203
Surface Hole Location (SHL Sec. 28)
Latitude: 30.977602° N
Longitude: 101.172368° W
X=2033657.87
Y=10320273.88
Elev.=2630'
2663' FNL & 1911' FWL

NAD 27, Central Zone 4203
Surface Hole Location (SHL Sec. 28)
Latitude: 30.977435° N
Longitude: 101.171978° W
X=1737190.70
Y=477695.60
Elev.=2630'
2663' FNL & 1911' FWL

Point of Penetration (PP Sec. 28)
Latitude: 30.978279° N
Longitude: 101.169245° W
X=1738049.56
Y=477996.06
2360' FNL & 2524' FEL

First Take Point (FTP Sec. 28)
Latitude: 30.978554° N
Longitude: 101.169246° W
X=1738049.80
Y=478096.06
2260' FNL & 2524' FEL

Last Take Point (LTP Sec. 21)
Latitude: 30.999450° N
Longitude: 101.169370° W
X=1738068.02
Y=485695.77
101' FNL & 2521' FEL

Bottom Hole Location (BHL Sec. 21)
Latitude: 30.999725° N
Longitude: 101.169372° W
X=1738068.26
Y=485795.77
1' FNL & 2521' FEL

Unit Boundary Distance	
SHL	8219' FSL & 8672' FEL
PP	8521' FSL & 7814' FEL
FTP	8621' FSL & 7814' FEL
LTP	16221' FSL & 7816' FEL
BHL	16321' FSL & 7816' FEL

Multi-Shot Bottom Hole Loc. 1.20' @ 258.56° Azm
of Surface Location.
MD 859.00'
TVD 858.99'
South .24'
West 1.18'

EP ENERGY E&P COMPANY, L.P.
UNIVERSITY EAST LEASE
43,372.00 ACRES (CALLED)

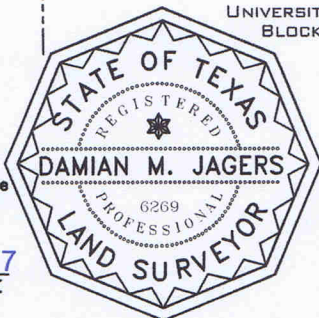
EP ENERGY

Well Name
UNIVERSITY EAST 4128EH
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
10.37 MILES SOUTH OF BARNHART, TEXAS

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 5/31/2017
DATE

Damian M. Jagers
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269



UNIVERSITY LAND
BLOCK 42



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. 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

XTS
CROSS TIMBERS SURVEYING, LLC

1503 DARTMOUTH ST., LONGVIEW, TX 75601
Phone: 254-965-8686 Fax: 254-968-5715
www.xtsurvey.com

EP ENERGY E&P COMPANY, L.P.

UNIVERSITY EAST 4128EH
Block 41, Section 28
Block 41, Section 21
Crockett County, Texas

Surveyor Certification Form

Survey company: MS Energy Services
Surveyors name: Eric Zirngible
Survey job type: SRG
Customer: EP Energy E&P Company, L.P.
Well: University East 4128EH
API: 42-105-42411
Surveyed from: Surface to a depth of 859' MD
Survey run date: 7/17/2017 to 7/17/2017
Surface location: Crockett 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.

**Eric
Zirngible**

Digitally signed by Eric
Zirngible
DN: cn=Eric Zirngible, o=MS
Energy Services, ou=MS Survey,
email=EZirngible@msenergyser
vices.com, c=US
Date: 2017.08.01 14:46:07
-05'00'