



3335 Pollok Drive
Conroe, Texas 77303

936.442.2500 (Office)
936.442.2599 (Fax)
www.msenergyservices.com

August 3, 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 0802DH (Permit No. 828607)
Survey: UL / Abstract: U137
Field: LIN (Wolfcamp)
Reagan County, TX
API number: 42-383-39943

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
Aaron Henzen	Original	Surface - 967'	7/19/2017 - 7/19/2017	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

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

Page 3 of 5



Job Number: SVMO-170506
 Company: EP Energy E&P Co.
 Lease/Well: University Central 0802DH
 Location: Reagan County, TX
 Rig Name: MS Mast
 RKB: 0'
 G.L. or M.S.L.: GL

State/Country: Texas/USA (X 1592739.60) (Y 561872.16)
 Declination: Declination See Details Below - NAD 27
 Grid: East To Grid North
 File name: C:\WINSER~1\2017\EPENER~1\MO\UNIVER~1\CENTRAL\0802DH.SVY
 Date/Time: 21-Jul-17 / 15:39
 Curve Name: Surface - 967' M.D. (Rate Gyro)

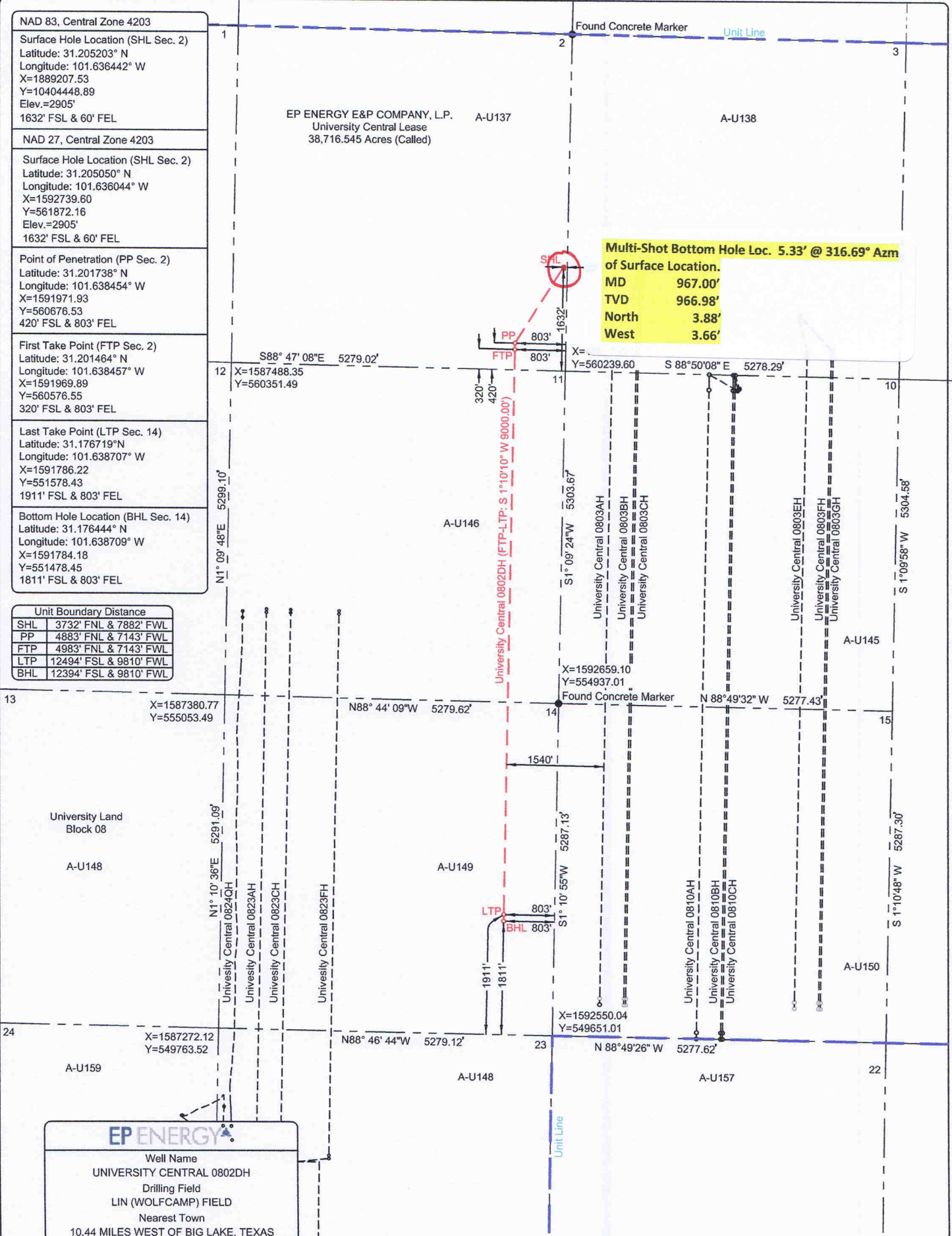
MS Energy

Declination To True North: 6.037°
 Grid Convergence Factor: -0° 40' 15.47166"
 Total Correction Mag to Grid: 6.71°

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	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
50.00	.37	338.08	50.00	.15	-.06	.15	.16	338.08	.74
100.00	.29	348.30	100.00	.42	-.15	.42	.45	340.95	.20
150.00	.20	35.32	150.00	.62	-.12	.62	.63	348.90	.42
200.00	.28	332.43	200.00	.80	-.13	.80	.81	350.92	.52
250.00	.31	337.12	250.00	1.03	-.24	1.03	1.06	347.07	.08
300.00	.42	333.64	300.00	1.32	-.37	1.32	1.37	344.32	.22
350.00	.41	325.87	350.00	1.63	-.55	1.63	1.72	341.30	.11
400.00	.34	333.56	399.99	1.91	-.72	1.91	2.04	339.41	.17
450.00	.32	331.92	449.99	2.17	-.85	2.17	2.33	338.59	.04
500.00	.77	301.57	499.99	2.47	-1.20	2.47	2.75	334.02	1.04
550.00	.39	288.43	549.99	2.70	-1.65	2.70	3.16	328.55	.80
600.00	.48	294.74	599.99	2.84	-2.00	2.84	3.47	324.81	.20

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
650.00	.33	305.73	649.99	3.01	-2.31	3.01	3.79	322.52	.34
700.00	.38	323.27	699.98	3.23	-2.52	3.23	4.10	321.97	.24
750.00	.31	296.08	749.98	3.42	-2.75	3.42	4.39	321.24	.35
800.00	.22	292.69	799.98	3.52	-2.96	3.52	4.59	319.95	.18
850.00	.28	283.27	849.98	3.58	-3.16	3.58	4.78	318.55	.15
900.00	.30	293.12	899.98	3.66	-3.40	3.66	5.00	317.10	.11
950.00	.30	317.35	949.98	3.81	-3.61	3.81	5.25	316.52	.25
Last Survey Depth Recorded									
967.00	.29	336.80	966.98	3.88	-3.66	3.88	5.33	316.69	.59



Multi-Shot Bottom Hole Loc. 5.33' @ 316.69° Azm
of Surface Location.
MD 967.00'
TVD 966.98'
North 3.88'
West 3.66'

Unit Boundary Distance	
SHL	3732' FNL & 7882' FWL
PP	4883' FNL & 7143' FWL
FTP	4983' FNL & 7143' FWL
LTP	12494' FSL & 9810' FWL
BHL	12394' FSL & 9810' FWL

EP ENERGY
Well Name
UNIVERSITY CENTRAL 0802DH
Drilling Field
LIN (WOLFCAMP) FIELD
Nearest Town
10.44 MILES WEST OF BIG LAKE, TEXAS

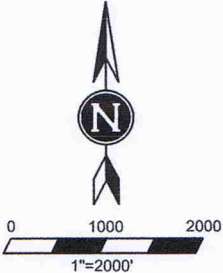
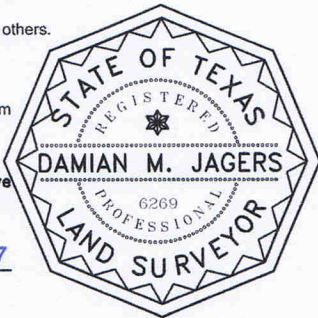
NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Shown Acreages were furnished by others. The information contained on this plat is intended for the sole use of EP ENERGY E&P COMPANY, 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 7/6/2017

REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 6269



EP ENERGY E&P COMPANY, L.P.

University Central 0802DH
Block 8, Section 02
Block 8, Section 11
Block 8, Section 14
Reagan County, Texas

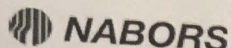
Surveyor Certification Form

Survey company: MS Energy Services
Surveyors name: Aaron Henzen
Survey job type: Rate Gyro
Customer: EP Energy E&P Company, L.P.
Well: University Central 0802DH
API: 42-383-39943
Surveyed from: Surface to a depth of 967' MD
Survey run date: 7/19/2017 to 7/19/2017
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.

Aaron Henzen

Digitally signed by Aaron
Henzen
DN: cn=Aaron Henzen, o=MS
Energy Services, ou=MS Survey,
email=AHenzen@msenergyserv
ices.com, c=US
Date: 2017.08.03 09:39:35
-05'00'



NABORS DRILLING TECHNOLOGIES USA, INC.
515 West Greens Road
Houston, TX 77067
Phone: 281.874.0035
Fax: 281.872.5205

Thursday, August 17, 2017

Railroad Commission of Texas
Oil and Gas Division
PO Box 12967
Capitol Station
Austin, TX 78711-2967

Subject: **Survey Certification Letter**

Attention: **Pam Johns**

Survey Company: **NABORS DRILLING TECH USA, INC.**
Job Number: **T-3550**
Survey Job Type: **Nabors MWD**
Customer: **EP ENERGY**
Well Name: **UNIVERSITY CENTRAL 802 DH**
Rig Name: **NABORS 888**

Operator #: **598880**
Surface: **561872.160 1592739.610**
A.P.I. No: **42-383-39943**
Location: **REAGAN, TEXAS**
RKB Height: **27'**
Distance to Bit: **55'**

								<i>TD Straight</i>
<i>Surveyor Name</i>	<i>Surveyor Title</i>	<i>Borehole</i>	<i>Start</i>	<i>End</i>	<i>Start</i>	<i>End</i>	<i>Type</i>	<i>Line</i>
		<i>Number</i>	<i>Depth</i>	<i>Depth</i>	<i>Date</i>	<i>Date</i>	<i>of</i>	<i>Projection</i>
Kris Seals	MWD Supervisor	OH	994'	17952'	08/10/17	08/17/17	MWD	18074'

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by NABORS DRILLING TECHNOLOGIES USA, INC. I am authorized and qualified to review the data, calculations and these reports; the reports represents true and correct Directional Surveys of this well based on the original data, the minimum curvature method, corrected to GRID NORTH and obtained at the well site.

Kristopher Seals 8/17/2017

Kris Seals

MWD Supervisor

NABORS DRILLING TECHNOLOGIES USA, INC.



EP Energy E&P Company, L.P.

Reagan Co., TX

University Central 0802

DH

OH

Survey: Survey #2 - NDS MWD

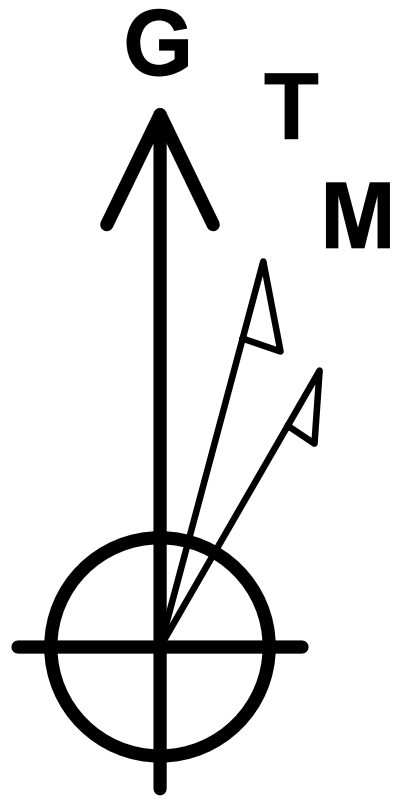
Completion Report

17 August, 2017





WELL DETAILS: DH
Ground Elevation: 2904.00
RKB Elevation: KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Rig Name: Nabors 888



Azimuths to Grid North
True North: 0.67°
Magnetic North: 6.60°

Magnetic Field
Strength: 47627.0snT
Dip Angle: 59.53°
Date: 7/5/2017
Model: HDGM

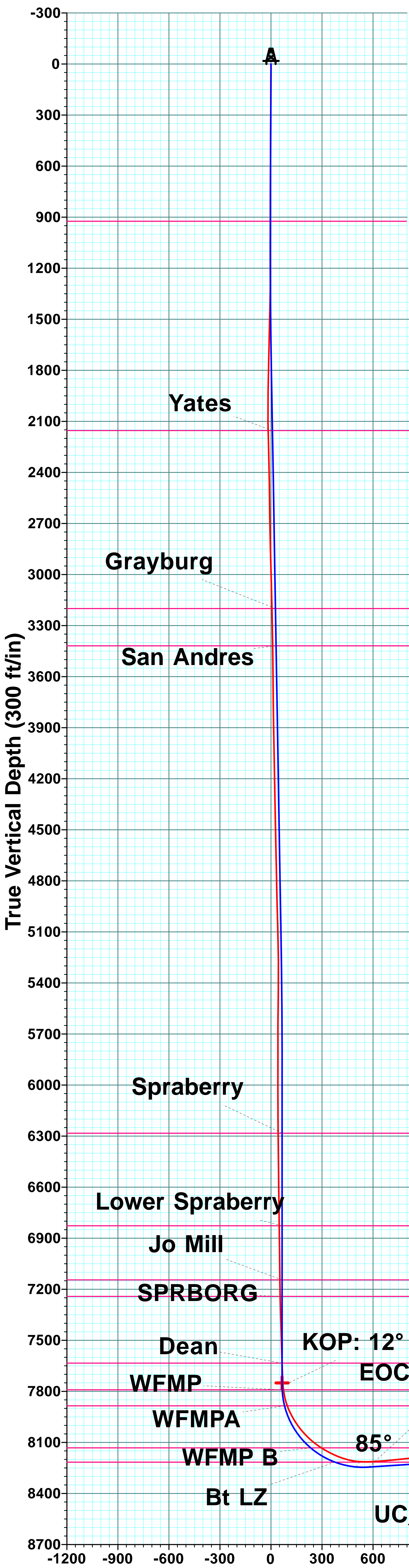
PROJECT DETAILS: Reagan Co., TX
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Texas Central 4203

System Datum: Mean Sea Level
Local North: Grid

FORMATION TOP DETAILS				
TVDPATH	MDPATH	FORMATION		
924.00	924.02	Base Cretaceous		
2154.00	2165.09	Yates		
3200.00	3227.28	Grayburg		
3419.00	3449.67	San Andres		
6283.00	6344.33	Spraberry		
6827.00	6888.33	Lower Spraberry		
7145.00	7206.33	Jo Mill		
7242.00	7303.33	SPRBORG		
7634.00	7695.33	Dean		
7791.00	7852.33	WFMP		
7885.00	7947.51	WFMPA		
8132.00	8242.96	WFMP B		
8216.00	8409.64	Bt LZ		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

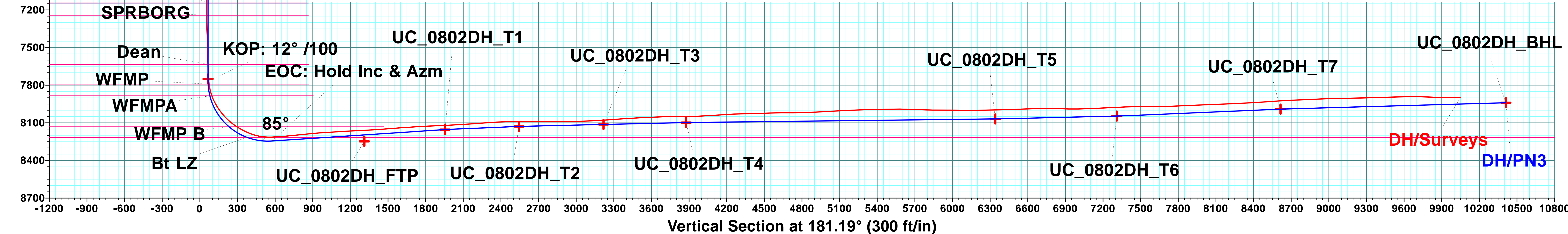
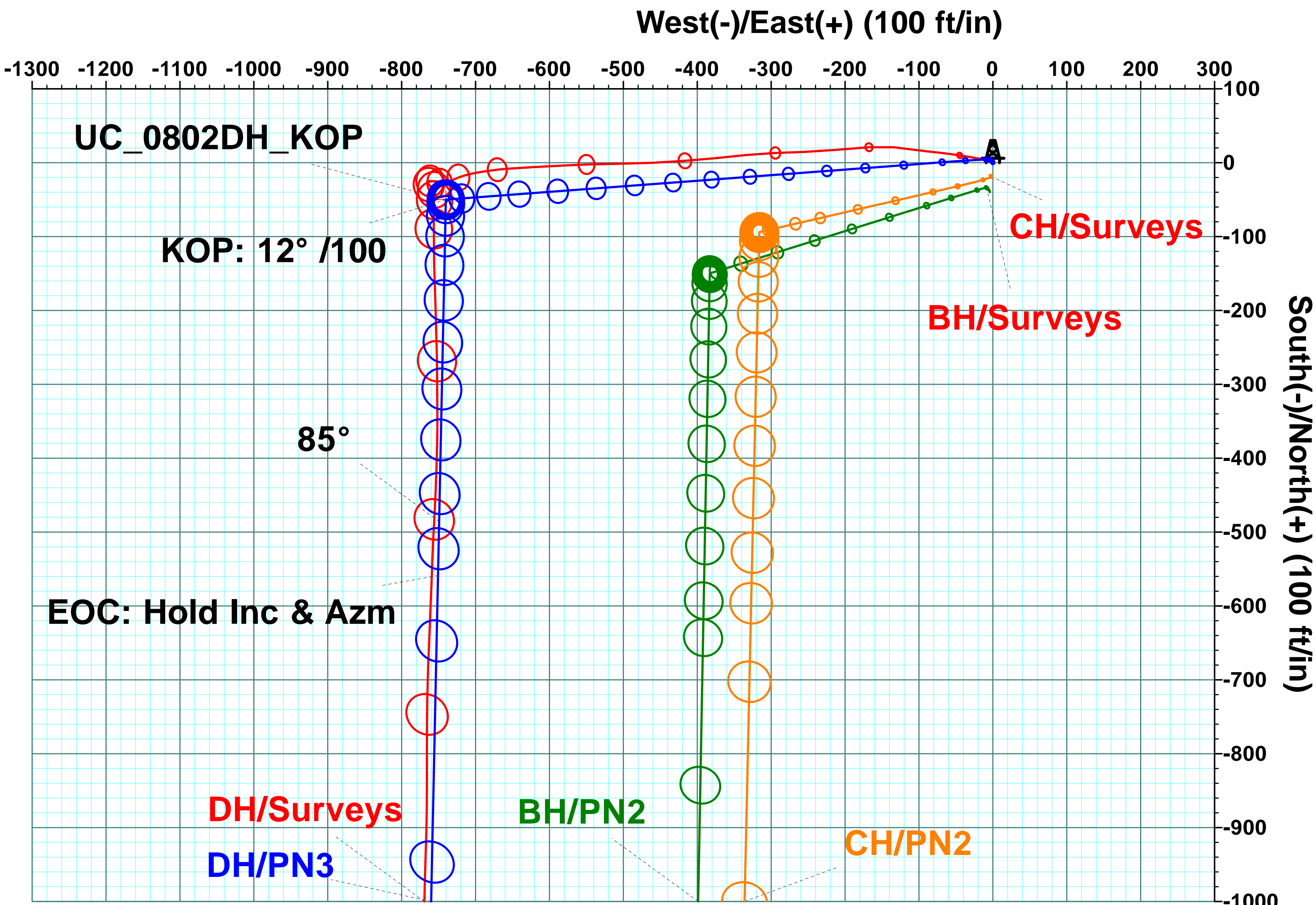
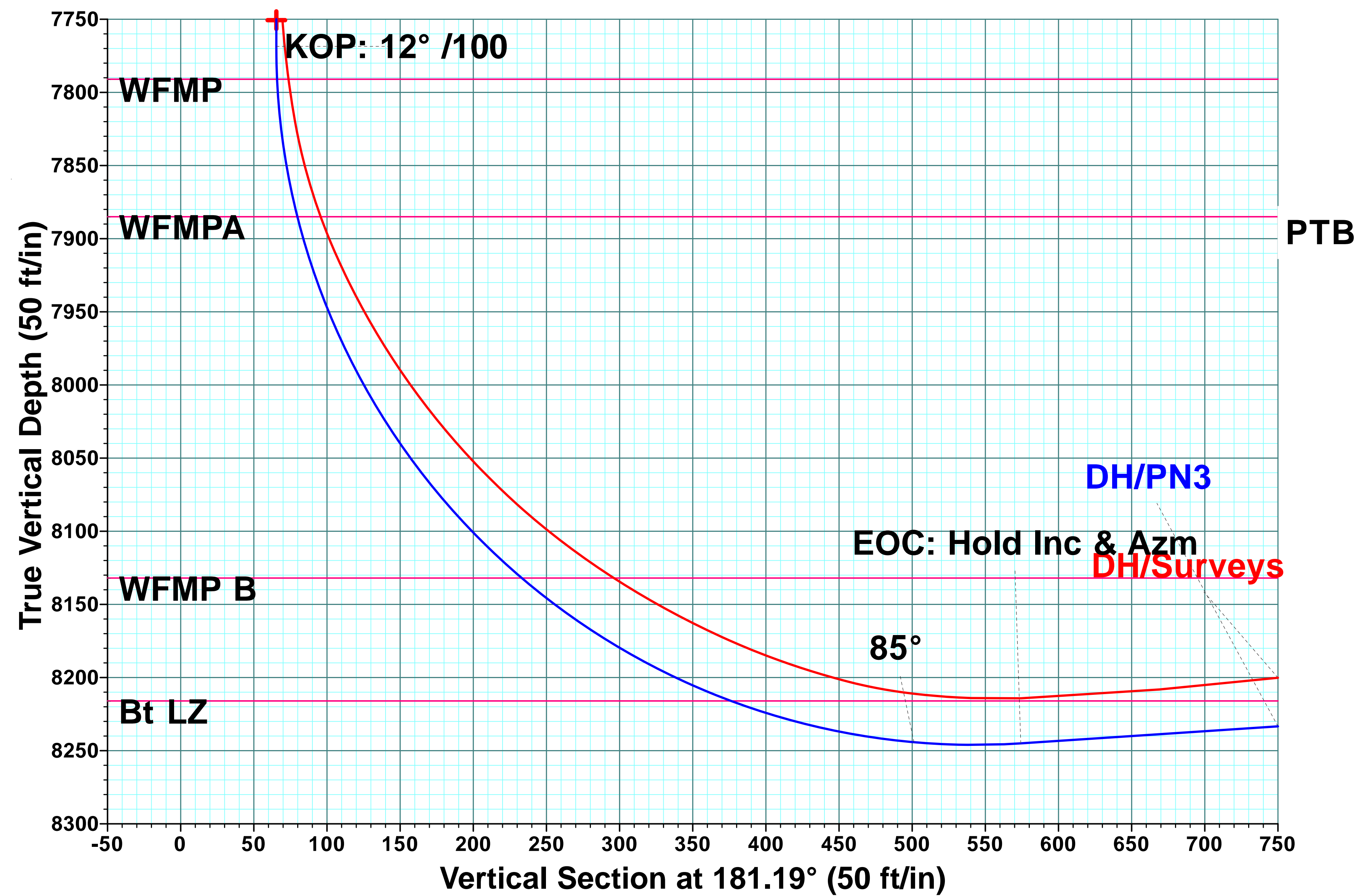
Name	TVD	+N/-S	+E/-W	Northing	Easting
UC_0802DH_BHL	7940.00	-10393.73	-955.43	551478.450	1591784.180
UC_0802DH_FTP	8248.00	-1295.61	-769.72	560576.550	1591969.890
UC_0802DH_KOP	7750.61	-50.00	-740.20	561822.160	1591999.411
UC_0802DH_T1	8154.02	-1939.23	-779.61	559932.936	1591960.003
UC_0802DH_T2	8129.01	-2529.10	-791.86	559343.065	1591947.747
UC_0802DH_T3	8113.04	-3201.96	-805.84	558670.211	1591933.770
UC_0802DH_T4	8098.09	-3860.81	-819.53	558011.355	1591920.084
UC_0802DH_T5	8069.06	-6324.28	-870.91	555547.896	1591868.698
UC_0802DH_T6	8046.26	-7293.07	-891.04	554579.107	1591848.573
UC_0802DH_T7	7991.07	-8597.79	-918.14	553274.391	1591821.471



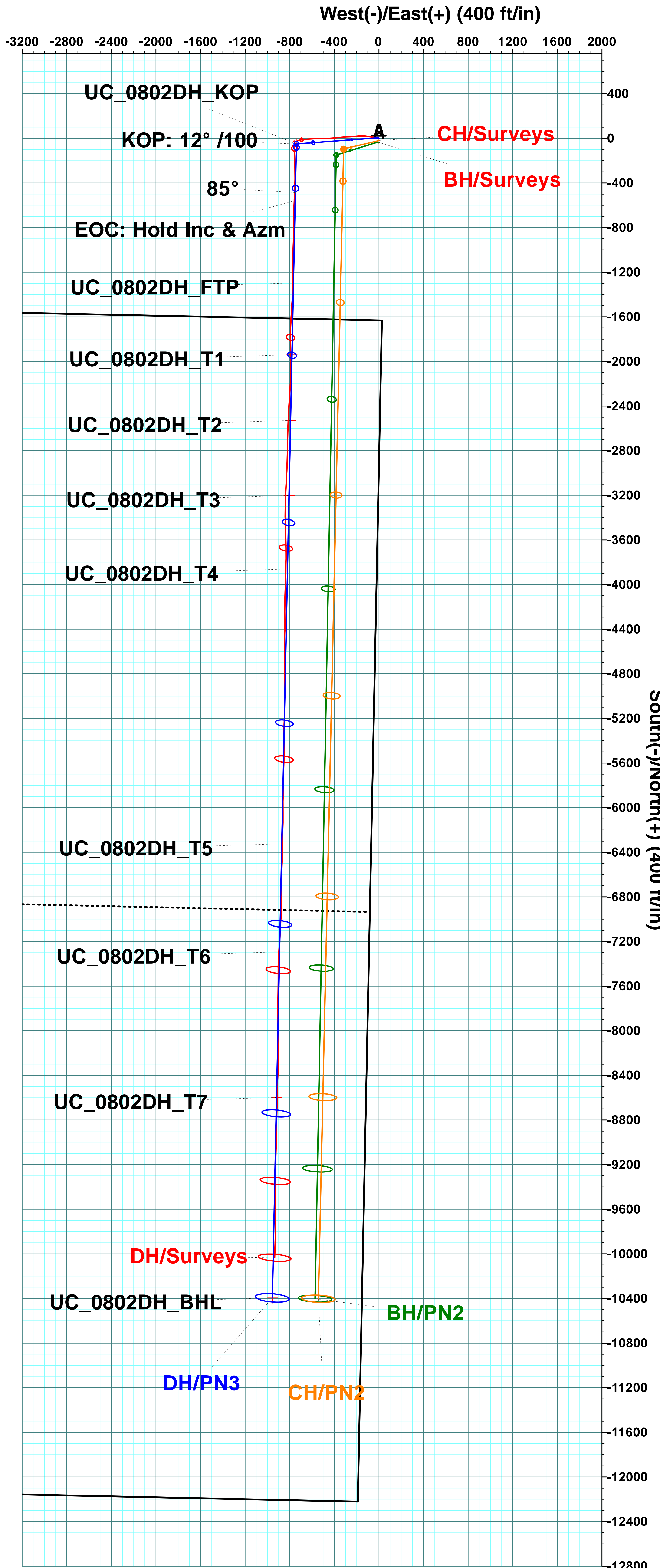
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
994.00	0.29	336.80	993.98	3.88	-3.66	0.00	0.00	-3.80	
1000.02	0.29	336.80	1000.00	3.91	-3.67	0.00	0.00	-3.83	
1661.77	10.02	265.69	1658.35	1.12	-61.86	1.50	-72.68	0.17	
5238.13	10.02	265.69	5180.20	-45.63	-682.14	0.00	0.00	59.78	
5905.90	0.00	0.00	5844.57	-50.00	-740.20	1.50	180.00	65.36	
7829.90	0.00	0.00	7768.57	-50.00	-740.20	0.00	0.00	65.36	
8611.31	93.77	181.19	8245.00	-558.75	-750.81	12.00	181.19	574.22	
9995.09	93.77	181.19	8154.02	-1939.23	-779.61	0.00	0.00	1955.00	
10066.54	92.34	181.19	8150.21	-2010.56	-781.09	2.00	-179.80	2026.35	
10585.62	92.34	181.19	8129.01	-2529.10	-791.86	0.00	0.00	2545.00	
10636.67	91.32	181.19	8127.37	-2580.11	-792.92	2.00	180.00	2596.02	
11258.82	91.32	181.19	8113.04	-3201.96	-805.84	0.00	0.00	3218.00	
11259.82	91.30	181.19	8113.02	-3202.95	-805.86	2.00	-180.00	3219.00	
11917.99	91.30	181.19	8098.09	-3860.81	-819.53	0.00	0.00	3877.00	
11949.44	90.67	181.19	8097.55	-3892.25	-820.18	2.00	179.54	3908.45	
14382.16	90.67	181.19	8069.06	-6324.28	-870.91	0.00	0.00	6341.00	
14416.61	91.36	181.19	8068.45	-6358.71	-871.63	2.00	-0.42	6375.45	
15351.43	91.36	181.19	8046.26	-7293.07	-891.04	0.00	0.00	7310.00	
15405.63	92.44	181.19	8044.46	-7347.23	-892.16	2.00	0.00	7364.17	
16657.60	92.44	181.19	7991.07	-8597.79	-918.14	0.00	0.00	8615.00	
16698.84	91.62	181.19	7989.61	-8639.00	-919.00	2.00	-179.97	8656.22	
18454.65	91.62	181.19	7940.00	-10393.73	-955.43	0.00	0.00	10411.33	UC_0802DH_BHL

ANNOTATIONS							
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure
7829.90	0.00	0.00	7768.57	-50.00	-740.20	65.36	738.75
8538.23	85.00	181.19	8244.22	-485.76	-749.29	501.21	1174.61
8611.31	93.77	181.19	8245.00	-558.74	-750.81	574.22	1247.60

Annotation: KOP: 12° /100
EOC: Hold Inc & Azm



Project: Reagan Co., TX
Site: University Central 0802
Well: DH
Wellbore: OH
Plan: PN3 (DH/OH)



Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Project	Reagan Co., TX, Texas, U.S.A.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	University Central 0802		
Site Position:		Northing:	561,812.470 usft
From:	Map	Easting:	1,592,733.570 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	31° 12' 17.58971 N
		Longitude:	101° 38' 9.81818 W
		Grid Convergence:	-0.67 °

Well	DH		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/5/2017	5.93	59.53	47,627.00000000

Design	Surveys			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
				0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	181.19

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey Program		Date 8/17/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
27.00	994.00	Survey #1 - MS Survey (OH)	GYRO-GMS-ISGYRO-WL	MSE ISGYRO multishot memory rate gyro running in w	
1,178.00	18,074.00	Survey #2 - NDS MWD (OH)	MWD+HRGM	OWSG MWD + HRGM	

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Closure Distance (ft)	Closure Azimuth (°)	
994.00	0.29	336.80	993.98	3.88	-3.66	-3.80	0.00	5.33	316.69	
1,178.00	0.50	206.29	1,177.98	3.59	-4.20	-3.50	0.39	5.52	310.53	
1,368.00	7.06	280.82	1,367.49	5.04	-16.05	-4.71	3.65	16.82	287.43	
1,557.00	10.75	278.89	1,554.18	9.95	-44.88	-9.01	1.96	45.97	282.50	
1,746.00	12.38	275.55	1,739.34	14.63	-82.46	-12.91	0.93	83.75	280.06	
1,935.00	12.94	278.36	1,923.74	19.67	-123.57	-17.10	0.44	125.12	279.04	
2,124.00	14.25	265.70	2,107.48	21.00	-167.71	-17.51	1.72	169.02	277.14	
2,313.00	13.50	265.00	2,290.97	17.33	-212.88	-12.91	0.41	213.59	274.65	
2,503.00	12.38	267.81	2,476.14	14.62	-255.33	-9.31	0.68	255.75	273.28	
2,692.00	11.50	268.16	2,661.05	13.24	-294.41	-7.12	0.47	294.71	272.58	
2,882.00	13.00	263.94	2,846.72	10.38	-334.59	-3.43	0.92	334.75	271.78	
3,071.00	11.75	264.30	3,031.33	6.22	-374.88	1.57	0.66	374.93	270.95	
3,261.00	13.75	265.70	3,216.63	2.61	-416.65	6.05	1.07	416.66	270.36	
3,451.00	13.38	267.11	3,401.33	-0.19	-461.13	9.77	0.26	461.13	269.98	
3,640.00	13.69	269.74	3,585.09	-1.40	-505.33	11.89	0.36	505.33	269.84	
3,830.00	13.44	267.81	3,769.79	-2.34	-549.88	13.76	0.27	549.89	269.76	
4,019.00	12.88	266.76	3,953.82	-4.37	-592.86	16.69	0.32	592.88	269.58	
4,209.00	13.63	266.76	4,138.76	-6.84	-636.35	20.05	0.39	636.39	269.38	
4,397.00	7.44	263.59	4,323.50	-9.45	-670.60	23.38	3.31	670.67	269.19	
4,587.00	6.44	260.25	4,512.11	-12.63	-693.33	27.02	0.57	693.44	268.96	
4,776.00	4.38	255.86	4,700.26	-16.19	-710.77	30.94	1.11	710.96	268.70	

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Closure Distance (ft)	Closure Azimuth (°)	
4,966.00	3.44	249.00	4,889.81	-20.00	-723.13	35.02	0.55	723.41	268.42	
5,155.00	3.19	241.97	5,078.50	-24.51	-733.07	39.72	0.25	733.48	268.09	
5,344.00	2.19	249.53	5,267.29	-28.24	-741.09	43.62	0.56	741.63	267.82	
5,533.00	2.81	297.52	5,456.13	-27.36	-748.58	42.90	1.12	749.08	267.91	
5,722.00	0.88	265.88	5,645.02	-25.32	-754.14	40.98	1.12	754.57	268.08	
5,911.00	1.13	280.12	5,834.00	-25.10	-757.42	40.83	0.19	757.84	268.10	
6,101.00	1.31	270.45	6,023.95	-24.76	-761.44	40.56	0.14	761.84	268.14	
6,290.00	0.50	161.64	6,212.94	-25.52	-763.34	41.37	0.82	763.77	268.09	
6,479.00	1.00	228.96	6,401.92	-27.39	-764.32	43.25	0.49	764.81	267.95	
6,669.00	1.56	116.99	6,591.89	-29.65	-763.27	45.49	1.13	763.85	267.78	
6,858.00	0.75	164.28	6,780.86	-32.01	-760.64	47.80	0.63	761.32	267.59	
7,048.00	1.50	118.57	6,970.82	-34.39	-758.12	50.13	0.59	758.90	267.40	
7,236.00	0.75	181.68	7,158.79	-36.80	-756.00	52.49	0.71	756.89	267.21	
7,426.00	1.88	160.23	7,348.74	-40.98	-754.98	56.65	0.64	756.09	266.89	
7,615.00	1.69	188.01	7,537.65	-46.65	-754.32	62.31	0.46	755.76	266.46	
7,749.00	2.00	201.89	7,671.58	-50.78	-755.47	66.46	0.40	757.17	266.15	
7,801.00	2.06	206.99	7,723.55	-52.46	-756.23	68.15	0.37	758.04	266.03	
7,827.63	4.12	187.33	7,750.14	-53.83	-756.57	69.53	8.59	758.48	265.93	
UC_0802DH_KOP										
7,896.00	9.88	176.93	7,817.97	-62.13	-756.57	77.83	8.59	759.11	265.31	
7,991.00	23.69	180.98	7,908.71	-89.49	-756.46	105.18	14.58	761.73	263.25	
8,086.00	34.44	178.34	7,991.63	-135.56	-756.00	151.23	11.39	768.06	259.83	
8,180.00	45.06	178.16	8,063.79	-195.55	-754.16	211.17	11.30	779.10	255.46	
8,275.00	55.88	178.69	8,124.17	-268.69	-752.17	284.25	11.40	798.72	250.34	
8,370.00	65.13	180.45	8,170.90	-351.28	-751.61	366.81	9.87	829.65	244.95	
8,465.00	75.56	182.38	8,202.81	-440.59	-753.87	456.15	11.14	873.17	239.70	
8,508.00	83.13	183.08	8,210.75	-482.77	-755.88	498.36	17.68	896.90	237.43	

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)		TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Closure Distance (ft)	Closure Azimuth (°)
8,584.00	91.63	181.85		8,214.22	-558.54	-759.14	574.19	11.30	942.48	233.66
8,679.00	95.69	182.73		8,208.16	-653.25	-762.93	668.96	4.37	1,004.39	229.43
8,773.00	95.50	180.45		8,199.00	-746.76	-765.52	762.50	2.42	1,069.43	225.71
8,867.00	96.56	179.92		8,189.12	-840.24	-765.83	855.97	1.26	1,136.88	222.35
8,962.00	93.75	182.03		8,180.58	-934.83	-767.44	950.57	3.69	1,209.49	219.38
9,056.00	93.31	180.80		8,174.80	-1,028.62	-769.76	1,044.38	1.39	1,284.75	216.81
9,151.00	94.06	179.22		8,168.69	-1,123.42	-769.77	1,139.16	1.84	1,361.85	214.42
9,245.00	92.50	180.80		8,163.31	-1,217.26	-769.79	1,232.98	2.36	1,440.24	212.31
9,319.35	92.74	179.85		8,159.91	-1,291.53	-770.21	1,307.24	1.32	1,503.75	210.81
UC_0802DH_FTP										
9,341.00	92.81	179.57		8,158.87	-1,313.15	-770.10	1,328.86	1.32	1,522.31	210.39
9,435.00	93.69	184.49		8,153.53	-1,406.91	-773.42	1,422.67	5.31	1,605.49	208.80
9,530.00	95.19	184.49		8,146.18	-1,501.34	-780.84	1,517.23	1.58	1,692.25	207.48
9,624.00	93.38	182.73		8,139.16	-1,594.88	-786.74	1,610.87	2.68	1,778.37	206.26
9,719.00	94.38	182.73		8,132.73	-1,689.55	-791.25	1,705.62	1.05	1,865.65	205.09
9,814.00	92.19	179.57		8,127.28	-1,784.36	-793.15	1,800.45	4.04	1,952.70	203.97
9,908.00	92.63	178.51		8,123.33	-1,878.26	-791.58	1,894.30	1.22	2,038.25	202.85
9,967.60	92.71	179.51		8,120.56	-1,937.79	-790.55	1,953.79	1.68	2,092.84	202.19
UC_0802DH_T1										
10,003.00	92.75	180.10		8,118.87	-1,973.15	-790.43	1,989.14	1.68	2,125.58	201.83
10,098.00	93.50	179.92		8,113.69	-2,068.01	-790.44	2,083.98	0.81	2,213.92	200.92
10,193.00	93.75	182.91		8,107.68	-2,162.78	-792.78	2,178.77	3.15	2,303.50	200.13
10,287.00	94.94	183.44		8,100.56	-2,256.36	-797.97	2,272.45	1.39	2,393.31	199.48
10,382.00	92.44	183.44		8,094.45	-2,350.98	-803.66	2,367.17	2.63	2,484.55	198.87
10,477.00	92.88	183.26		8,090.04	-2,445.72	-809.21	2,462.00	0.50	2,576.11	198.31
10,558.54	90.11	182.50		8,087.91	-2,527.12	-813.30	2,543.47	3.52	2,654.77	197.84
UC_0802DH_T2										

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey									
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Closure Distance (ft)	Closure Azimuth (°)
10,571.00	89.69	182.38	8,087.93	-2,539.57	-813.83	2,555.92	3.52	2,666.78	197.77
10,666.00	89.69	181.50	8,088.45	-2,634.51	-817.05	2,650.91	0.93	2,758.30	197.23
10,761.00	89.19	181.15	8,089.37	-2,729.48	-819.24	2,745.91	0.64	2,849.78	196.71
10,854.00	89.00	181.15	8,090.84	-2,822.45	-821.11	2,838.90	0.20	2,939.46	196.22
10,949.00	90.94	181.68	8,090.89	-2,917.42	-823.45	2,933.89	2.12	3,031.40	195.76
11,044.00	92.50	183.08	8,088.04	-3,012.29	-827.40	3,028.82	2.21	3,123.85	195.36
11,139.00	92.50	182.91	8,083.90	-3,107.07	-832.36	3,123.68	0.18	3,216.63	195.00
11,230.93	93.42	182.39	8,079.15	-3,198.77	-836.60	3,215.46	1.15	3,306.37	194.66
UC_0802DH_T3									
11,233.00	93.44	182.38	8,079.03	-3,200.84	-836.69	3,217.53	1.15	3,308.39	194.65
11,328.00	94.63	181.50	8,072.34	-3,295.55	-839.90	3,312.28	1.56	3,400.89	194.30
11,422.00	93.38	179.22	8,065.78	-3,389.31	-840.48	3,406.03	2.76	3,491.97	193.93
11,517.00	93.25	177.64	8,060.28	-3,484.11	-837.89	3,500.76	1.67	3,583.45	193.52
11,612.00	92.13	179.39	8,055.82	-3,578.97	-835.43	3,595.55	2.19	3,675.18	193.14
11,706.00	92.25	178.16	8,052.23	-3,672.88	-833.42	3,689.39	1.31	3,766.25	192.78
11,801.00	90.25	181.50	8,050.16	-3,767.84	-833.14	3,784.33	4.10	3,858.85	192.47
11,893.70	89.89	180.30	8,050.05	-3,860.53	-834.59	3,877.03	1.35	3,949.71	192.20
UC_0802DH_T4									
11,896.00	89.88	180.27	8,050.05	-3,862.82	-834.61	3,879.32	1.35	3,951.96	192.19
11,990.00	93.38	182.21	8,047.38	-3,956.74	-836.64	3,973.27	4.26	4,044.23	191.94
12,085.00	93.31	182.21	8,041.83	-4,051.51	-840.29	4,068.09	0.07	4,137.73	191.72
12,179.00	93.38	180.98	8,036.35	-4,145.31	-842.91	4,161.92	1.31	4,230.14	191.49
12,274.00	94.13	180.45	8,030.13	-4,240.10	-844.09	4,256.72	0.97	4,323.30	191.26
12,368.00	89.19	178.69	8,027.41	-4,334.03	-843.38	4,350.61	5.58	4,415.32	191.01
12,463.00	92.06	182.21	8,026.37	-4,428.99	-844.13	4,445.57	4.78	4,508.72	190.79
12,558.00	92.94	181.50	8,022.23	-4,523.85	-847.20	4,540.47	1.19	4,602.50	190.61
12,652.00	89.94	178.87	8,019.86	-4,617.80	-847.50	4,634.41	4.24	4,694.93	190.40

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)		TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Closure Distance (ft)	Closure Azimuth (°)
12,747.00	89.81	177.81		8,020.07	-4,712.76	-844.75	4,729.29	1.12	4,787.87	190.16
12,842.00	92.31	181.33		8,018.31	-4,807.72	-844.04	4,824.21	4.54	4,881.24	189.96
12,937.00	92.94	181.15		8,013.96	-4,902.60	-846.09	4,919.11	0.69	4,975.07	189.79
13,031.00	93.13	180.10		8,008.98	-4,996.46	-847.11	5,012.97	1.13	5,067.76	189.62
13,126.00	93.13	179.39		8,003.80	-5,091.31	-846.69	5,107.80	0.75	5,161.24	189.44
13,221.00	91.88	182.03		7,999.64	-5,186.21	-847.87	5,202.70	3.07	5,255.06	189.28
13,315.00	92.69	181.50		7,995.90	-5,280.08	-850.76	5,296.61	1.03	5,348.19	189.15
13,410.00	90.25	177.99		7,993.46	-5,375.03	-850.34	5,391.53	4.50	5,441.88	188.99
13,505.00	92.13	181.15		7,991.49	-5,469.99	-849.62	5,486.46	3.87	5,535.58	188.83
13,600.00	88.88	181.68		7,990.65	-5,564.95	-851.97	5,581.44	3.47	5,629.78	188.70
13,695.00	88.31	180.80		7,992.98	-5,659.89	-854.03	5,676.41	1.10	5,723.96	188.58
13,789.00	87.56	180.45		7,996.36	-5,753.83	-855.05	5,770.34	0.88	5,817.01	188.45
13,884.00	89.88	182.73		7,998.49	-5,848.75	-857.69	5,865.30	3.42	5,911.31	188.34
13,979.00	89.94	181.15		7,998.64	-5,943.70	-860.90	5,960.29	1.66	6,005.72	188.24
14,074.00	87.94	178.34		8,000.39	-6,038.66	-860.48	6,055.23	3.63	6,099.66	188.11
14,169.00	90.69	181.68		8,001.53	-6,133.63	-860.50	6,150.18	4.55	6,193.70	187.99
14,264.00	91.88	181.68		7,999.40	-6,228.57	-863.28	6,245.15	1.25	6,288.11	187.89
14,358.00	90.69	178.87		7,997.29	-6,322.53	-863.73	6,339.11	3.25	6,381.26	187.78
14,358.26	90.69	178.88		7,997.29	-6,322.79	-863.73	6,339.36	4.60	6,381.51	187.78
UC_0802DH_T5										
14,453.00	91.88	183.08		7,995.16	-6,417.47	-865.35	6,434.06	4.60	6,475.55	187.68
14,548.00	92.50	182.21		7,991.53	-6,512.30	-869.73	6,528.96	1.12	6,570.12	187.61
14,643.00	91.44	180.10		7,988.26	-6,607.22	-871.64	6,623.89	2.48	6,664.46	187.52
14,737.00	91.25	179.22		7,986.06	-6,701.19	-871.08	6,717.83	0.96	6,757.57	187.41
14,832.00	88.75	182.21		7,986.06	-6,796.16	-872.27	6,812.81	4.10	6,851.91	187.31
14,927.00	87.63	181.15		7,989.06	-6,891.07	-875.05	6,907.76	1.62	6,946.41	187.24
15,021.00	91.56	182.73		7,989.72	-6,984.99	-878.23	7,001.73	4.51	7,039.99	187.17

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Closure Distance (ft)	Closure Azimuth (°)	
15,116.00	92.38	183.44	7,986.46	-7,079.80	-883.34	7,096.62	1.14	7,134.69	187.11	
15,210.00	92.75	183.96	7,982.25	-7,173.51	-889.40	7,190.43	0.68	7,228.43	187.07	
15,305.00	92.38	183.08	7,978.00	-7,268.23	-895.23	7,285.26	1.00	7,323.16	187.02	
15,326.03	92.63	183.12	7,977.08	-7,289.21	-896.37	7,306.26	1.21	7,344.12	187.01	
UC_0802DH_T6										
15,399.00	93.50	183.26	7,973.18	-7,361.96	-900.42	7,379.08	1.21	7,416.82	186.97	
15,494.00	88.56	179.22	7,971.47	-7,456.88	-902.47	7,474.01	6.72	7,511.29	186.90	
15,589.00	90.56	180.80	7,972.20	-7,551.87	-902.49	7,568.98	2.68	7,605.60	186.81	
15,683.00	91.44	180.80	7,970.56	-7,645.84	-903.80	7,662.96	0.94	7,699.08	186.74	
15,778.00	92.44	180.62	7,967.34	-7,740.78	-904.98	7,757.90	1.07	7,793.50	186.67	
15,873.00	92.31	179.74	7,963.40	-7,835.70	-905.28	7,852.81	0.94	7,887.82	186.59	
15,967.00	92.81	179.57	7,959.21	-7,929.60	-904.71	7,946.68	0.56	7,981.04	186.51	
16,061.00	91.94	177.99	7,955.31	-8,023.49	-902.71	8,040.51	1.92	8,074.12	186.42	
16,156.00	92.38	181.15	7,951.73	-8,118.41	-902.00	8,135.39	3.36	8,168.37	186.34	
16,251.00	92.94	180.98	7,947.32	-8,213.29	-903.76	8,230.29	0.62	8,262.87	186.28	
16,345.00	92.38	179.57	7,942.96	-8,307.19	-904.21	8,324.18	1.61	8,356.25	186.21	
16,440.00	93.56	182.73	7,938.03	-8,402.03	-906.12	8,419.03	3.55	8,450.75	186.16	
16,534.00	93.81	182.03	7,931.99	-8,495.75	-910.01	8,512.82	0.79	8,544.35	186.11	
16,629.00	94.31	180.80	7,925.27	-8,590.48	-912.35	8,607.58	1.39	8,638.79	186.06	
16,632.74	94.22	180.82	7,924.99	-8,594.21	-912.40	8,611.31	2.46	8,642.51	186.06	
UC_0802DH_T7										
16,723.00	92.06	181.33	7,920.04	-8,684.31	-914.10	8,701.43	2.46	8,732.29	186.01	
16,818.00	92.44	181.15	7,916.31	-8,779.22	-916.15	8,796.35	0.44	8,826.89	185.96	
16,912.00	93.13	180.45	7,911.75	-8,873.10	-917.46	8,890.24	1.05	8,920.40	185.90	
17,007.00	91.38	182.03	7,908.01	-8,968.00	-919.52	8,985.16	2.48	9,015.01	185.85	
17,101.00	91.56	182.03	7,905.60	-9,061.91	-922.85	9,079.12	0.19	9,108.77	185.81	
17,196.00	90.94	181.33	7,903.53	-9,156.84	-925.63	9,174.09	0.98	9,203.51	185.77	

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well DH
Project:	Reagan Co., TX	TVD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Site:	University Central 0802	MD Reference:	KB=27'(Nabors 888) @ 2931.00ft (Nabors 888)
Well:	DH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey									
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Closure Distance (ft)	Closure Azimuth (°)
17,291.00	90.94	180.62	7,901.97	-9,251.81	-927.25	9,269.07	0.75	9,298.16	185.72
17,385.00	92.13	180.62	7,899.45	-9,345.77	-928.26	9,363.03	1.27	9,391.76	185.67
17,480.00	91.75	179.57	7,896.23	-9,440.72	-928.42	9,457.96	1.17	9,486.26	185.62
17,574.00	91.69	178.16	7,893.41	-9,534.65	-926.56	9,551.84	1.50	9,579.57	185.55
17,669.00	90.00	179.74	7,892.01	-9,629.62	-924.82	9,646.75	2.44	9,673.93	185.49
17,763.00	88.88	181.33	7,892.93	-9,723.61	-925.70	9,740.74	2.07	9,767.57	185.44
17,858.00	87.69	181.50	7,895.77	-9,818.53	-928.04	9,835.69	1.27	9,862.30	185.40
17,952.00	90.63	181.85	7,897.15	-9,912.47	-930.79	9,929.67	3.15	9,956.08	185.36
18,074.00	90.63	181.85	7,895.81	-10,034.40	-934.73	10,051.65	0.00	10,077.84	185.32
PTB - UC_0802DH_BHL									

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
18,074.00	7,895.81	-10,034.40	-934.73	PTB	

Checked By: _____	Approved By: _____	Date: _____
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NAD 83, Central Zone 4203
 Surface Hole Location (SHL Sec. 2)
 Latitude: 31.205203° N
 Longitude: 101.636442° W
 X=1889207.53
 Y=10404448.89
 Elev.=2905'
 1632' FSL & 60' FEL

NAD 27, Central Zone 4203
 Surface Hole Location (SHL Sec. 2)
 Latitude: 31.205050° N
 Longitude: 101.636044° W
 X=1592739.60
 Y=561872.16
 Elev.=2905'
 1632' FSL & 60' FEL

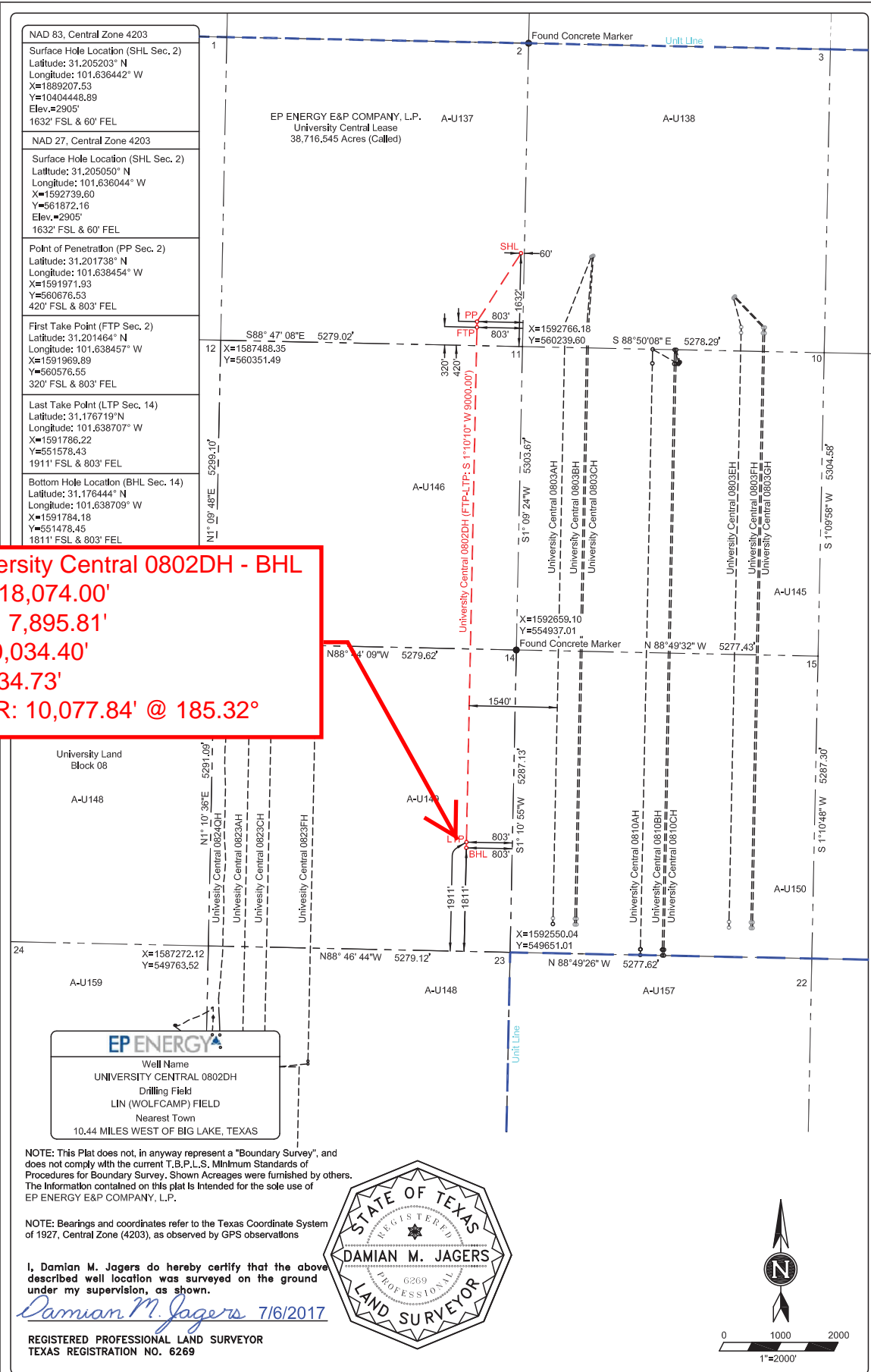
Point of Penetration (PP Sec. 2)
 Latitude: 31.201738° N
 Longitude: 101.638454° W
 X=1591971.93
 Y=560676.53
 420' FSL & 803' FEL

First Take Point (FTP Sec. 2)
 Latitude: 31.201464° N
 Longitude: 101.638457° W
 X=1591969.89
 Y=560576.55
 320' FSL & 803' FEL

Last Take Point (LTP Sec. 14)
 Latitude: 31.176719° N
 Longitude: 101.638707° W
 X=1591786.22
 Y=551578.43
 1911' FSL & 803' FEL

Bottom Hole Location (BHL Sec. 14)
 Latitude: 31.176444° N
 Longitude: 101.638709° W
 X=1591784.18
 Y=551478.45
 1811' FSL & 803' FEL

University Central 0802DH - BHL
MD: 18,074.00'
TVD: 7,895.81'
S: 10,034.40'
W: 934.73'
CLSR: 10,077.84' @ 185.32°



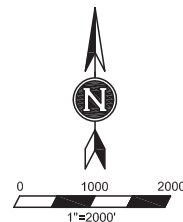
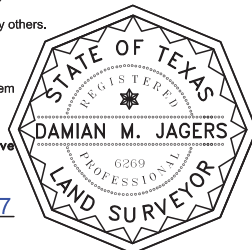
NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Shown Acreages were furnished by others. The Information contained on this plat is intended for the sole use of EP ENERGY E&P COMPANY, 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 7/6/2017

REGISTERED PROFESSIONAL LAND SURVEYOR
 TEXAS REGISTRATION NO. 6269



EP ENERGY E&P COMPANY, L.P.

University Central 0802DH
 Block 8, Section 02
 Block 8, Section 11
 Block 8, Section 14
 Reagan County, Texas