



EP Energy E&P Company, L.P.

**Crockett Co, TX
University East 4128
EH**

OH

Design: Surveys

Standard Survey Report

05 September, 2017





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

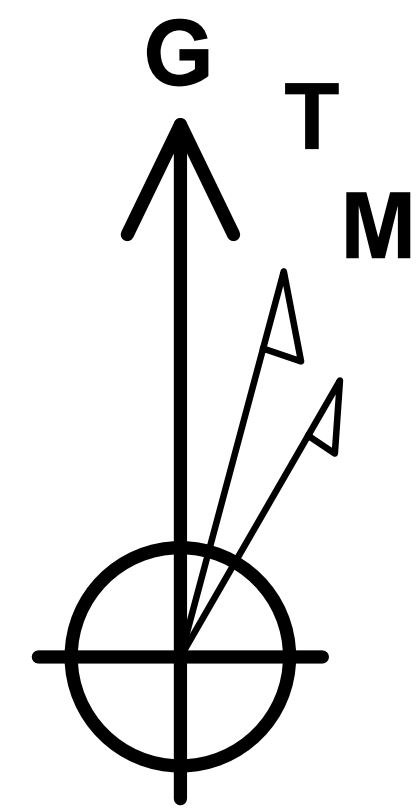
System Datum: Mean Sea Level
Local North: Grid

Project: Crockett Co, TX
Site: University East 4128
Well: EH
Wellbore: OH
Plan: PN2 (EH/OH)

WELL DETAILS: EH

Ground Elevation: 2630.00
RKB Elevation: KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Rig Name: Nabors F34

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	477695.600	1737190.700	30° 58' 38.76531 N	101° 10' 19.12098 W



Azimuths to Grid North
True North: 0.43°
Magnetic North: 5.95°

Magnetic Field
Strength: 47572.9snT
Dip Angle: 59.60°
Date: 6/12/2017
Model: HDGM



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
889.00	0.46	359.57	888.99	-0.24	-1.18	0.00	0.00	-0.25
1000.01	0.46	359.57	1000.00	0.65	-1.18	0.00	0.00	0.65
1872.85	13.01	98.31	1865.38	-10.10	96.47	1.50	100.70	-9.51
4720.40	13.01	98.31	4639.79	-102.81	731.01	0.00	0.00	-98.35
5588.06	0.00	0.00	5500.00	-117.00	828.10	1.50	180.00	-111.94
5827.67	0.00	0.00	5739.61	-117.00	828.10	0.00	0.00	-111.94
6577.09	89.93	0.34	6217.07	359.87	830.93	12.00	0.34	364.94
8231.15	89.93	0.34	6219.10	2013.90	840.75	0.00	0.00	2019.00
8270.65	89.14	0.35	6219.42	2053.40	840.99	2.00	179.64	2058.50
9381.27	89.14	0.35	6236.09	3163.88	847.67	0.00	0.00	3169.00
9384.62	89.07	0.35	6236.14	3167.23	847.69	2.00	179.92	3172.35
11420.54	89.07	0.35	6269.08	5202.84	859.95	0.00	0.00	5208.00
11442.79	88.63	0.35	6269.52	5225.09	860.09	2.00	179.88	5230.25
13346.09	88.63	0.35	6315.09	7127.81	871.58	0.00	0.00	7133.00
13386.34	89.43	0.35	6315.78	7168.05	871.82	2.00	0.48	7173.25
14120.43	89.43	0.35	6323.04	7902.09	876.34	0.00	0.00	7907.30

ANNOTATIONS

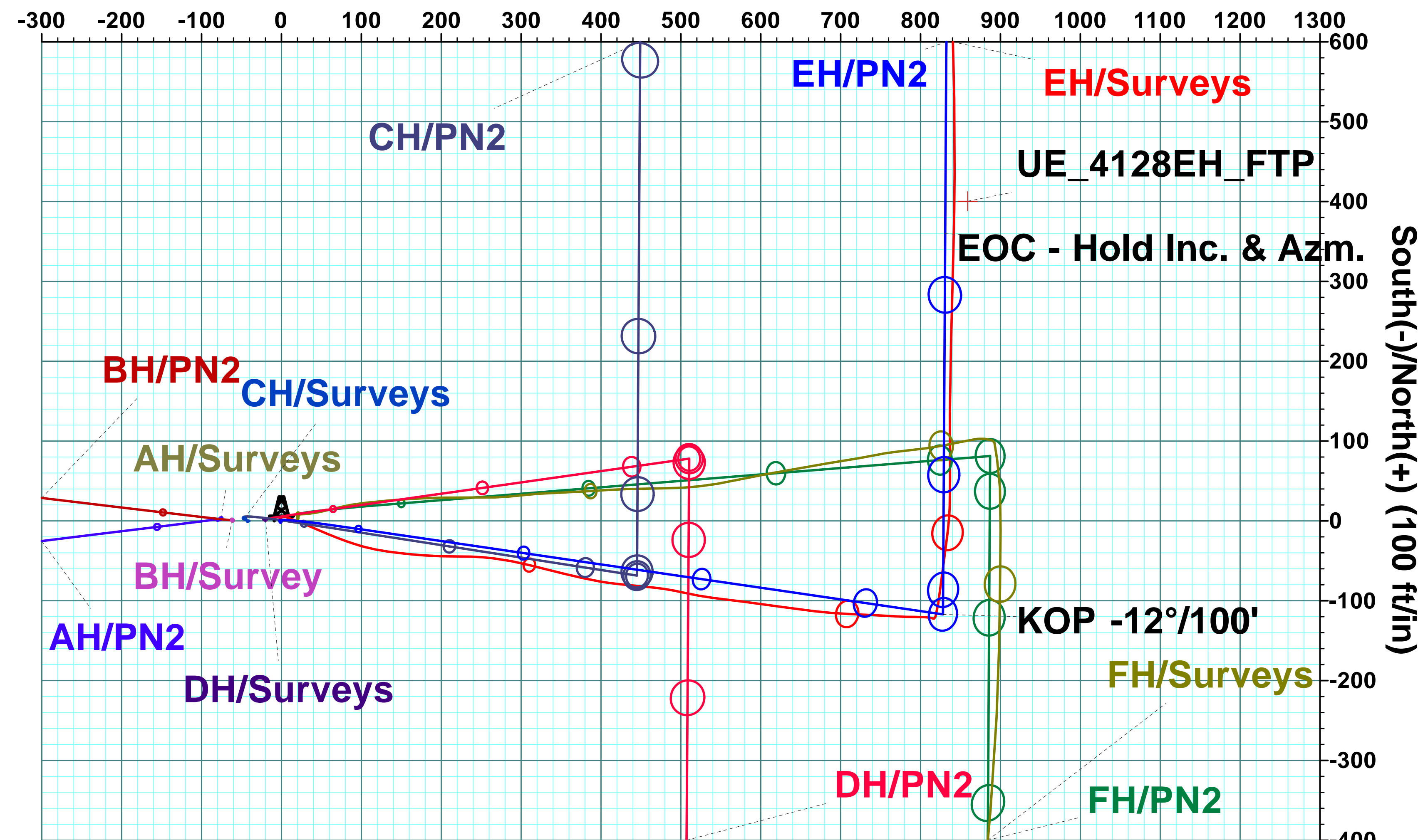
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
5827.67	0.00	0.00	5739.61	-117.00	828.10	-111.94	839.10	KOP -12°/100'
6577.09	89.93	0.34	6217.07	359.88	830.93	364.95	1315.99	EOC - Hold Inc. & Azm.

UE_4128EH_TD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
UE_4128EH_BHL	6325.00	8100.19	877.56	485795.770	1738068.260
UE_4128EH_FTP	6217.00	400.46	859.10	478096.060	1738049.800
UE_4128EH_T1	6219.10	2013.90	840.75	479709.498	1738031.448
UE_4128EH_T2	6236.09	3163.88	847.67	480859.475	1738038.368
UE_4128EH_T3	6269.08	5202.84	859.95	482898.433	1738050.648
UE_4128EH_T4	6315.09	7127.81	871.58	484823.394	1738062.278
UE_4128EH_TD	6323.04	7902.09	876.34	485597.675	1738067.040

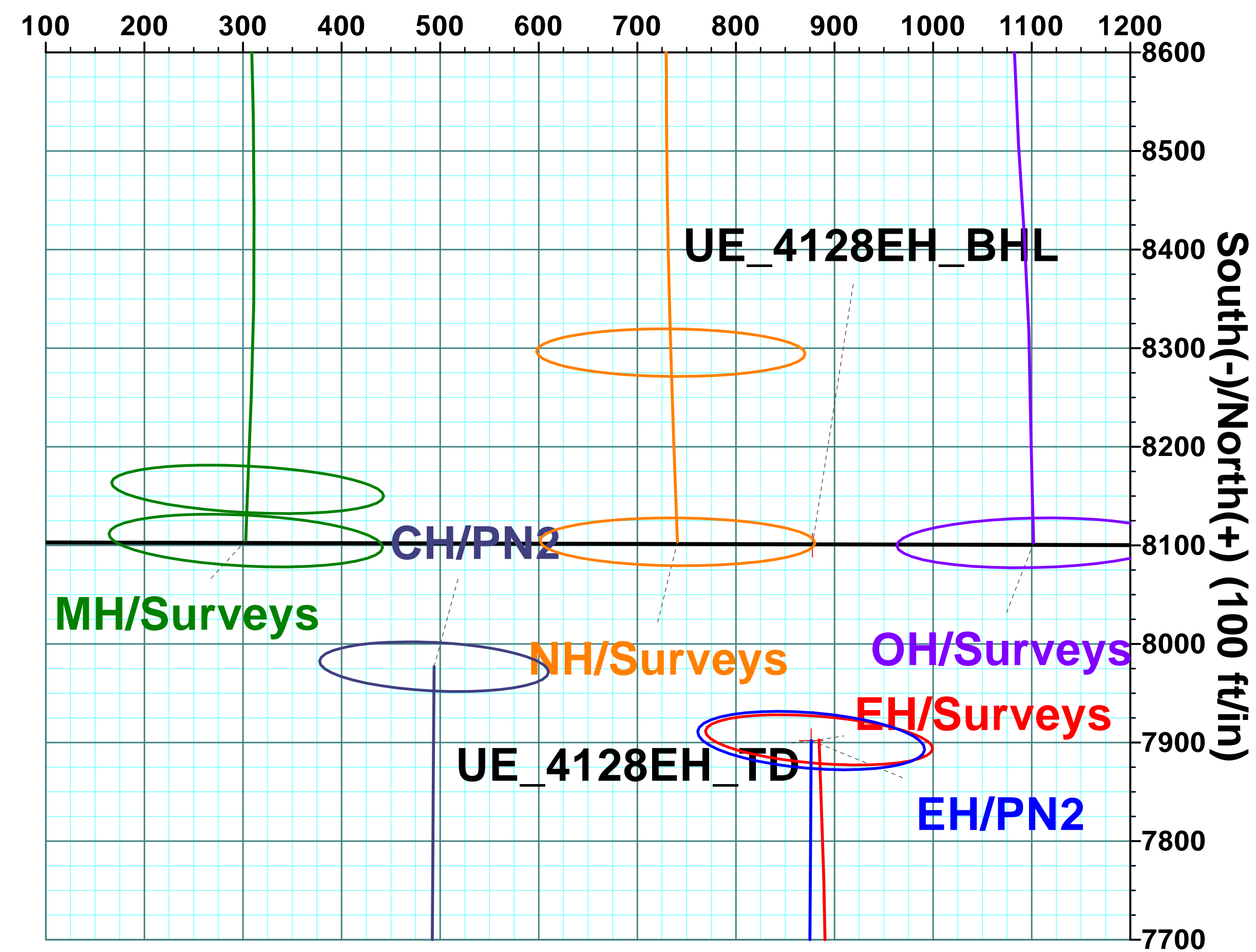
West(-)/East(+) (100 ft/in)



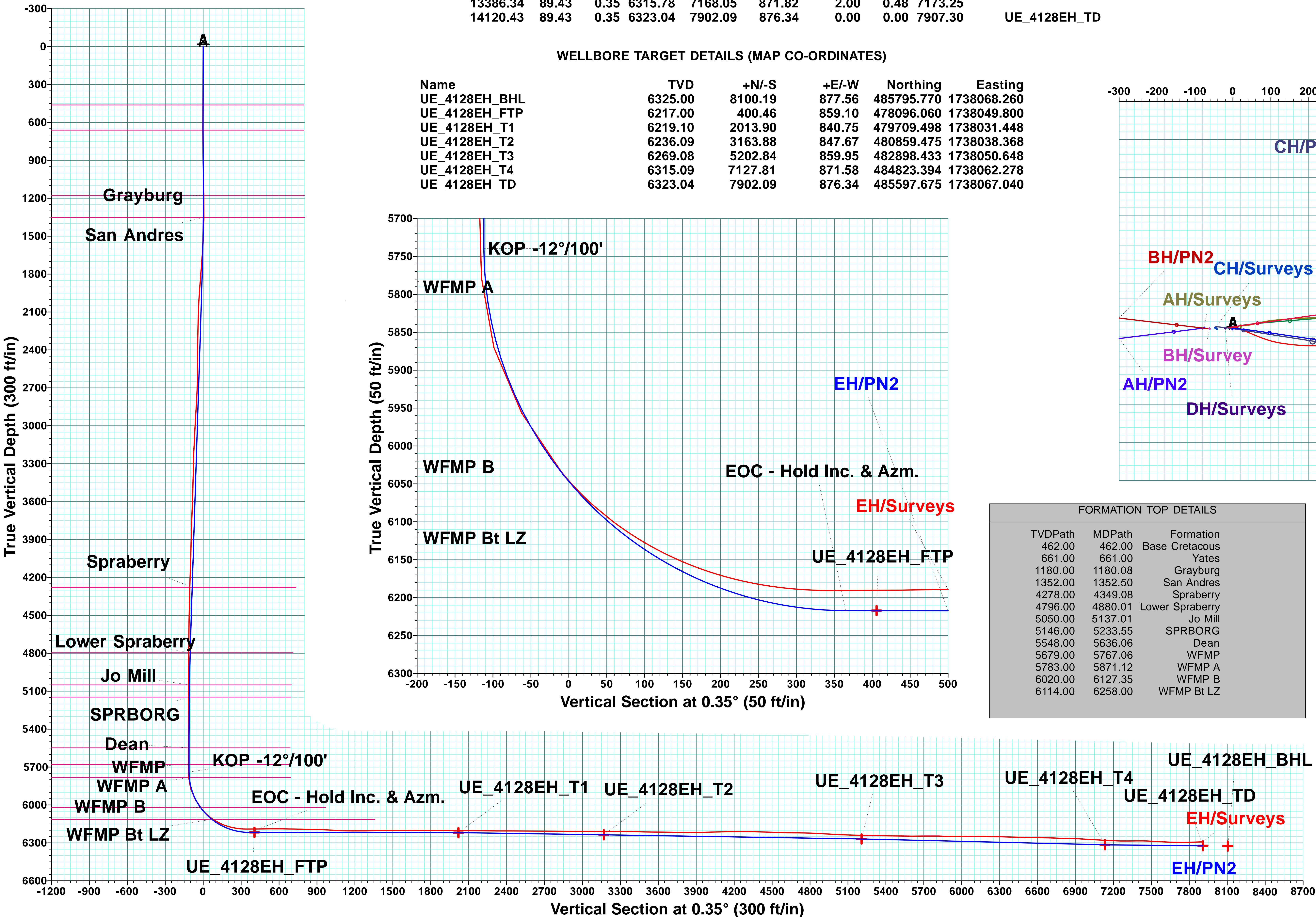
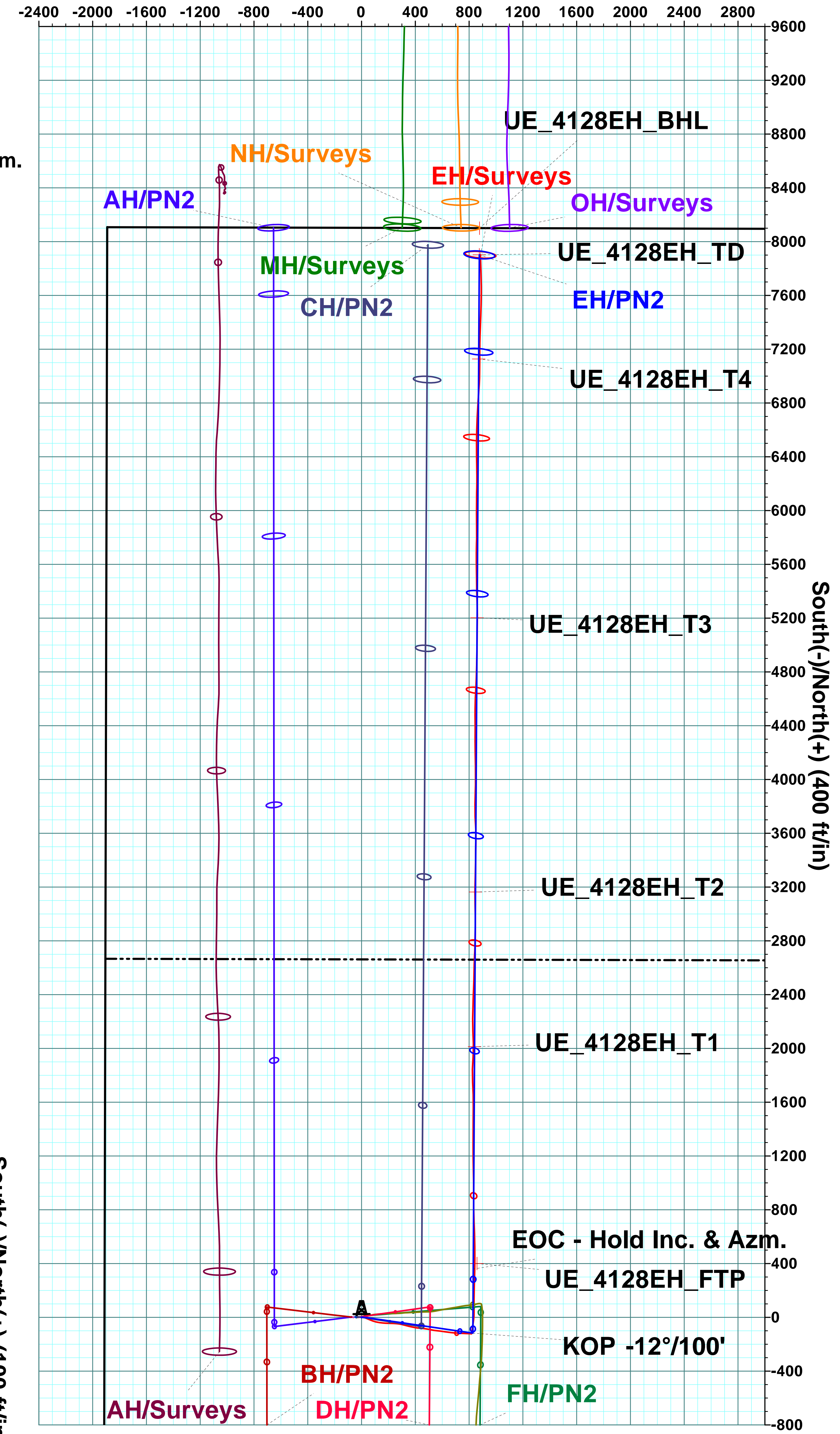
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
462.00	462.00	Base Cretaceous
661.00	661.00	Yates
1180.00	1180.08	Grayburg
1352.00	1352.50	San Andres
4278.00	4349.08	Spraberry
4796.00	4880.01	Lower Spraberry
5050.00	5137.01	Jo Mill
5146.00	5233.55	SPRBORG
5548.00	5636.06	Dean
5679.00	5767.06	WFMP
5783.00	5871.12	WFMP A
6020.00	6127.35	WFMP B
6114.00	6258.00	WFMP Bt LZ

West(-)/East(+) (100 ft/in)



West(-)/East(+) (400 ft/in)



Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well EH
Project:	Crockett Co, TX	TVD Reference:	KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Site:	University East 4128	MD Reference:	KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Well:	EH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Project	Crockett Co, TX, Crockett Co, TX		
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 East 4128		
Site Position:		Northing:	477,695.600 usft
From:	Map	Easting:	1,737,110.700 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	30° 58' 38.75934 N
		Longitude:	101° 10' 20.03997 W
		Grid Convergence:	-0.43 °

Well	EH		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	30° 58' 38.76531 N
		Longitude:	101° 10' 19.12098 W
		Ground Level:	2,630.00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	6/12/2017	5.52
			Dip Angle
			(°)
			59.60
			Field Strength
			(nT)
			47,572.90000000

Design	Surveys		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			0.35

Survey Program	Date	9/5/2017		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
30.00	889.00	Survey #1 - MS Survey (OH)	GYRO-GMS-ISGYRO-WL	MSE ISGYRO multishot memory rate gyro running in w
1,016.00	14,118.00	Survey #2 - NDS MWD (OH)	MWD+HRGM	OWSG MWD + HRGM

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	
80.00	0.13	318.88	80.00	0.04	-0.04	0.04	0.26	0.26	0.00	
130.00	0.31	229.10	130.00	0.00	-0.18	0.00	0.67	0.36	-179.56	
180.00	0.32	211.60	180.00	-0.21	-0.35	-0.21	0.19	0.02	-35.00	
230.00	0.28	207.39	230.00	-0.44	-0.48	-0.44	0.09	-0.08	-8.42	
280.00	0.27	205.30	280.00	-0.65	-0.59	-0.66	0.03	-0.02	-4.18	
330.00	0.26	207.21	330.00	-0.86	-0.69	-0.86	0.03	-0.02	3.82	
380.00	0.21	201.72	380.00	-1.05	-0.78	-1.05	0.11	-0.10	-10.98	
430.00	0.22	208.43	430.00	-1.22	-0.86	-1.22	0.05	0.02	13.42	

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Well:	EH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
480.00	0.13	165.19	480.00	-1.36	-0.89	-1.36	0.31	-0.18	-86.48
530.00	0.21	141.18	530.00	-1.48	-0.82	-1.49	0.21	0.16	-48.02
580.00	0.04	117.56	580.00	-1.56	-0.74	-1.57	0.35	-0.34	-47.24
630.00	0.03	25.79	630.00	-1.56	-0.72	-1.56	0.10	-0.02	-183.54
680.00	0.11	0.92	680.00	-1.50	-0.71	-1.50	0.17	0.16	-49.74
730.00	0.26	348.22	730.00	-1.34	-0.74	-1.34	0.31	0.30	-25.40
780.00	0.29	342.53	779.99	-1.11	-0.80	-1.11	0.08	0.06	-11.38
830.00	0.55	329.06	829.99	-0.78	-0.96	-0.79	0.55	0.52	-26.94
880.00	0.61	342.94	879.99	-0.32	-1.16	-0.33	0.30	0.12	27.76
889.00	0.46	359.57	888.99	-0.24	-1.18	-0.25	2.38	-1.67	184.78
1,016.00	0.88	340.29	1,015.98	1.19	-1.51	1.18	0.37	0.33	-15.18
1,172.00	1.63	7.53	1,171.94	4.52	-1.62	4.51	0.60	0.48	17.46
1,360.00	4.13	107.20	1,359.77	5.17	5.20	5.20	2.49	1.33	53.02
1,548.00	7.63	112.47	1,546.75	-1.61	23.21	-1.47	1.88	1.86	2.80
1,736.00	11.31	113.53	1,732.16	-13.74	51.65	-13.43	1.96	1.96	0.56
1,924.00	13.50	108.78	1,915.76	-28.17	89.33	-27.62	1.28	1.16	-2.53
2,112.00	14.69	97.71	2,098.13	-38.43	133.74	-37.62	1.56	0.63	-5.89
2,300.00	12.81	94.19	2,280.74	-43.15	178.15	-42.07	1.09	-1.00	-1.87
2,488.00	14.44	89.62	2,463.45	-44.52	222.38	-43.16	1.04	0.87	-2.43
2,675.00	13.06	97.36	2,645.10	-47.07	266.66	-45.44	1.23	-0.74	4.14
2,863.00	14.38	103.68	2,827.74	-55.32	310.41	-53.42	1.06	0.70	3.36
3,051.00	14.00	104.21	3,010.00	-66.42	355.14	-64.25	0.21	-0.20	0.28
3,238.00	13.63	100.17	3,191.60	-75.86	398.76	-73.43	0.55	-0.20	-2.16
3,332.00	14.94	95.60	3,282.69	-79.00	421.72	-76.42	1.84	1.39	-4.86
3,521.00	12.56	96.13	3,466.26	-83.57	466.41	-80.72	1.26	-1.26	0.28
3,708.00	10.94	103.33	3,649.35	-89.84	503.89	-86.76	1.17	-0.87	3.85
3,897.00	11.94	97.18	3,834.60	-96.42	540.74	-93.11	0.83	0.53	-3.25
4,084.00	13.31	97.36	4,017.07	-101.59	581.29	-98.04	0.73	0.73	0.10
4,273.00	13.31	98.06	4,201.00	-107.43	624.40	-103.61	0.09	0.00	0.37
4,461.00	13.00	97.00	4,384.06	-113.04	666.82	-108.97	0.21	-0.16	-0.56
4,649.00	12.56	92.43	4,567.41	-116.48	708.23	-112.16	0.59	-0.23	-2.43
4,836.00	9.31	93.14	4,750.99	-118.18	743.66	-113.63	1.74	-1.74	0.38
5,024.00	7.50	92.96	4,936.96	-119.64	771.10	-114.93	0.96	-0.96	-0.10
5,213.00	5.56	89.97	5,124.73	-120.27	792.57	-115.43	1.04	-1.03	-1.58
5,400.00	3.00	94.19	5,311.19	-120.63	806.52	-115.70	1.38	-1.37	2.26
5,588.00	1.25	105.09	5,499.06	-121.52	813.40	-116.55	0.95	-0.93	5.80
5,776.00	0.88	109.84	5,687.02	-122.54	816.74	-117.55	0.20	-0.20	2.53
5,867.00	3.69	27.92	5,777.96	-120.19	818.77	-115.19	4.03	3.09	-90.02
5,961.00	17.13	8.06	5,870.21	-103.74	822.14	-98.71	14.59	14.30	-21.13
6,055.00	29.13	7.53	5,956.50	-67.21	827.10	-62.16	12.77	12.77	-0.56
6,149.00	39.25	7.18	6,034.15	-14.89	833.83	-9.80	10.77	10.77	-0.37
6,243.00	53.06	359.09	6,099.17	52.56	836.97	57.67	15.93	14.69	-8.61
6,337.00	65.13	0.50	6,147.36	133.06	836.75	138.17	12.90	12.84	1.50

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Site:	University East 4128	MD Reference:	KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Well:	EH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,432.00	77.44	1.38	6,177.78	222.85	838.24	227.97	12.99	12.96	0.93
6,551.00	90.19	1.56	6,190.58	340.87	841.27	346.01	10.72	10.71	0.15
6,610.70	90.35	0.66	6,190.30	400.56	842.43	405.70	1.52	0.27	-1.50
UE_4128EH_FTP									
6,645.00	90.44	0.15	6,190.06	434.86	842.68	440.00	1.52	0.27	-1.50
6,739.00	91.50	359.27	6,188.47	528.84	842.20	533.98	1.47	1.13	-0.94
6,832.00	88.19	358.04	6,188.72	621.80	840.02	626.92	3.80	-3.56	-1.32
6,927.00	89.44	357.69	6,190.68	716.71	836.48	721.81	1.37	1.32	-0.37
7,021.00	88.00	359.62	6,192.78	810.66	834.27	815.74	2.56	-1.53	2.05
7,115.00	89.25	0.32	6,195.04	904.63	834.23	909.71	1.52	1.33	0.74
7,209.00	86.38	359.27	6,198.62	998.55	833.89	1,003.62	3.25	-3.05	-1.12
7,302.00	88.00	358.74	6,203.18	1,091.42	832.28	1,096.48	1.83	1.74	-0.57
7,396.00	89.75	359.45	6,205.03	1,185.38	830.79	1,190.44	2.01	1.86	0.76
7,490.00	91.13	359.80	6,204.31	1,279.38	830.18	1,284.43	1.51	1.47	0.37
7,585.00	91.94	0.50	6,201.76	1,374.34	830.43	1,379.39	1.13	0.85	0.74
7,678.00	89.31	0.15	6,200.75	1,467.33	830.95	1,472.38	2.85	-2.83	-0.38
7,772.00	90.31	0.32	6,201.06	1,561.32	831.34	1,566.37	1.08	1.06	0.18
7,867.00	90.31	359.45	6,200.55	1,656.32	831.15	1,661.37	0.92	0.00	-0.92
7,961.00	89.44	355.23	6,200.75	1,750.20	826.79	1,755.22	4.58	-0.93	-4.49
8,055.00	89.69	2.79	6,201.47	1,844.11	825.16	1,849.12	8.05	0.27	8.04
8,149.00	89.94	3.14	6,201.77	1,937.99	830.03	1,943.02	0.46	0.27	0.37
8,225.22	89.69	0.18	6,202.01	2,014.16	832.23	2,019.21	3.90	-0.33	-3.88
UE_4128EH_T1									
8,244.00	89.63	359.45	6,202.13	2,032.94	832.17	2,037.99	3.90	-0.33	-3.88
8,338.00	89.50	356.28	6,202.84	2,126.86	828.67	2,131.89	3.38	-0.14	-3.37
8,432.00	89.00	1.73	6,204.07	2,220.81	827.04	2,225.82	5.82	-0.53	5.80
8,526.00	89.25	1.03	6,205.51	2,314.77	829.30	2,319.79	0.79	0.27	-0.74
8,620.00	90.44	2.61	6,205.76	2,408.72	832.29	2,413.75	2.10	1.27	1.68
8,714.00	89.69	1.56	6,205.65	2,502.65	835.71	2,507.71	1.37	-0.80	-1.12
8,807.00	89.25	1.03	6,206.51	2,595.62	837.81	2,600.69	0.74	-0.47	-0.57
8,902.00	90.25	2.96	6,206.93	2,690.56	841.12	2,695.65	2.29	1.05	2.03
8,996.00	89.25	0.85	6,207.34	2,784.50	844.24	2,789.60	2.48	-1.06	-2.24
9,090.00	89.69	0.85	6,208.21	2,878.49	845.64	2,883.60	0.47	0.47	0.00
9,184.00	90.13	0.15	6,208.36	2,972.48	846.46	2,977.60	0.88	0.47	-0.74
9,278.00	89.94	358.22	6,208.30	3,066.47	845.12	3,071.57	2.06	-0.20	-2.05
9,372.00	89.19	0.32	6,209.01	3,160.45	843.92	3,165.55	2.37	-0.80	2.23
9,375.51	89.25	0.37	6,209.06	3,163.96	843.94	3,169.05	2.10	1.64	1.31
UE_4128EH_T2									
9,467.00	90.75	1.56	6,209.06	3,255.43	845.48	3,260.54	2.10	1.64	1.31
9,561.00	89.13	1.20	6,209.16	3,349.40	847.74	3,354.52	1.77	-1.72	-0.38
9,655.00	88.00	359.97	6,211.51	3,443.36	848.70	3,448.48	1.78	-1.20	-1.31
9,748.00	89.00	2.08	6,213.95	3,536.31	850.37	3,541.44	2.51	1.08	2.27
9,842.00	89.81	357.16	6,214.93	3,630.27	849.74	3,635.40	5.30	0.86	-5.23
9,936.00	88.56	356.99	6,216.26	3,724.14	844.95	3,729.23	1.34	-1.33	-0.18

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Project:	Crockett Co, TX	TVD Reference:	KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Site:	University East 4128	MD Reference:	KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Well:	EH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,030.00	90.13	1.91	6,217.34	3,818.10	844.05	3,823.18	5.49	1.67	5.23
10,125.00	90.69	1.38	6,216.66	3,913.06	846.77	3,918.16	0.81	0.59	-0.56
10,219.00	91.31	359.97	6,215.02	4,007.03	847.88	4,012.14	1.64	0.66	-1.50
10,313.00	91.56	359.45	6,212.66	4,101.00	847.41	4,106.10	0.61	0.27	-0.55
10,407.00	91.75	358.57	6,209.95	4,194.95	845.78	4,200.04	0.96	0.20	-0.94
10,501.00	88.81	0.68	6,209.49	4,288.93	845.17	4,294.01	3.85	-3.13	2.24
10,595.00	87.81	359.62	6,212.26	4,382.88	845.41	4,387.97	1.55	-1.06	-1.13
10,689.00	88.56	359.62	6,215.24	4,476.83	844.79	4,481.91	0.80	0.80	0.00
10,782.00	88.13	1.56	6,217.93	4,569.79	845.75	4,574.87	2.14	-0.46	2.09
10,876.00	89.38	3.31	6,219.97	4,663.67	849.74	4,668.78	2.29	1.33	1.86
10,970.00	88.56	1.73	6,221.66	4,757.56	853.87	4,762.69	1.89	-0.87	-1.68
11,064.00	87.06	1.56	6,225.25	4,851.45	856.57	4,856.60	1.61	-1.60	-0.18
11,158.00	87.00	0.68	6,230.12	4,945.31	858.40	4,950.46	0.94	-0.06	-0.94
11,251.00	87.06	0.50	6,234.94	5,038.18	859.36	5,043.33	0.20	0.06	-0.19
11,345.00	88.38	0.50	6,238.68	5,132.10	860.18	5,137.26	1.40	1.40	0.00
11,416.24	89.37	0.77	6,240.08	5,203.32	860.97	5,208.48	1.44	1.39	0.37
UE_4128EH_T3									
11,439.00	89.69	0.85	6,240.26	5,226.08	861.29	5,231.24	1.44	1.39	0.37
11,533.00	88.31	356.63	6,241.90	5,320.02	859.22	5,325.17	4.72	-1.47	-4.49
11,627.00	89.06	0.50	6,244.06	5,413.94	856.87	5,419.08	4.19	0.80	4.12
11,721.00	89.00	358.04	6,245.65	5,507.91	855.67	5,513.04	2.62	-0.06	-2.62
11,815.00	89.69	359.97	6,246.73	5,601.89	854.04	5,607.00	2.18	0.73	2.05
11,910.00	90.88	0.50	6,246.25	5,696.89	854.43	5,702.00	1.37	1.25	0.56
12,004.00	89.38	1.91	6,246.04	5,790.86	856.41	5,795.98	2.19	-1.60	1.50
12,098.00	88.38	357.86	6,247.88	5,884.82	856.22	5,889.94	4.44	-1.06	-4.31
12,192.00	90.63	1.03	6,248.69	5,978.79	855.31	5,983.91	4.14	2.39	3.37
12,286.00	90.50	359.97	6,247.76	6,072.79	856.13	6,077.90	1.14	-0.14	-1.13
12,381.00	88.44	1.38	6,248.64	6,167.77	857.25	6,172.89	2.63	-2.17	1.48
12,475.00	88.38	359.62	6,251.25	6,261.72	858.07	6,266.85	1.87	-0.06	-1.87
12,568.00	89.50	359.27	6,252.97	6,354.70	857.17	6,359.82	1.26	1.20	-0.38
12,662.00	87.19	358.92	6,255.69	6,448.64	855.68	6,453.75	2.49	-2.46	-0.37
12,756.00	90.56	1.38	6,257.53	6,542.60	855.93	6,547.71	4.44	3.59	2.62
12,850.00	88.31	1.91	6,258.46	6,636.56	858.63	6,641.68	2.46	-2.39	0.56
12,944.00	87.81	2.79	6,261.64	6,730.42	862.48	6,735.56	1.08	-0.53	0.94
13,038.00	89.25	3.66	6,264.05	6,824.24	867.77	6,829.41	1.79	1.53	0.93
13,131.00	86.69	4.02	6,267.35	6,916.96	873.99	6,922.17	2.78	-2.75	0.39
13,225.00	86.56	0.85	6,272.88	7,010.70	877.98	7,015.94	3.37	-0.14	-3.37
13,319.00	87.00	0.32	6,278.16	7,104.55	878.93	7,109.79	0.73	0.47	-0.56
13,344.08	87.05	0.23	6,279.46	7,129.60	879.05	7,134.83	0.42	0.20	-0.37
UE_4128EH_T4									
13,413.00	87.19	359.97	6,282.93	7,198.43	879.17	7,203.66	0.42	0.20	-0.37
13,507.00	90.06	2.08	6,285.18	7,292.37	880.85	7,297.62	3.79	3.05	2.24
13,601.00	91.06	2.43	6,284.26	7,386.29	884.55	7,391.56	1.13	1.06	0.37

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well EH
Project:	Crockett Co, TX	TVD Reference:	KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Site:	University East 4128	MD Reference:	KB=30' (Nabors F34) @ 2660.00ft (Nabors F34)
Well:	EH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	RyanUSA_Compass

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
13,695.00	86.88	1.73	6,285.95	7,480.19	887.96	7,485.48	4.51	-4.45	-0.74	
13,789.00	86.88	1.03	6,291.07	7,574.03	890.22	7,579.32	0.74	0.00	-0.74	
13,883.00	87.88	359.80	6,295.37	7,667.92	890.90	7,673.22	1.69	1.06	-1.31	
13,977.00	91.56	358.04	6,295.82	7,761.89	889.13	7,767.17	4.34	3.91	-1.87	
14,116.77	91.56	358.04	6,292.02	7,901.52	884.35	7,906.77	0.00	0.00	0.00	
UE_4128EH_TD										
14,118.00	91.56	358.04	6,291.99	7,902.75	884.31	7,908.00	0.00	0.00	0.00	
PTB - UE_4128EH_BHL										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
14,118.00	6,291.99	7,902.75	884.31	PTB	

Checked By: _____	Approved By: _____	Date: _____
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