



EP Energy E&P Company, L.P.

Crockett Co, TX

University Salt Draw 3820

GH

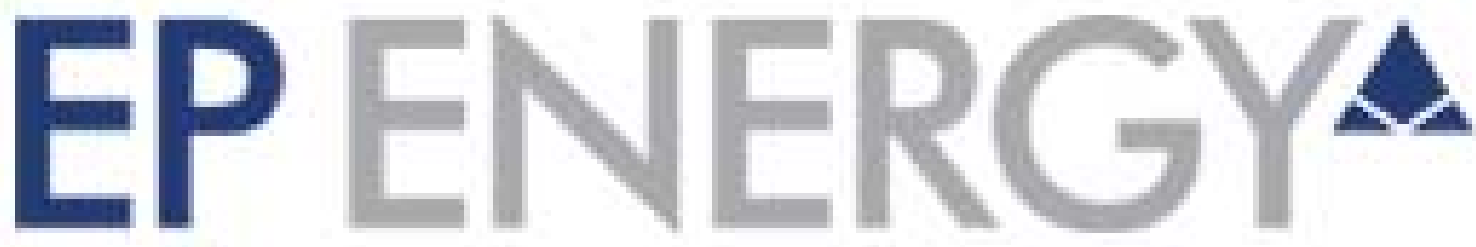
OH

Design: Surveys

Standard Survey Report

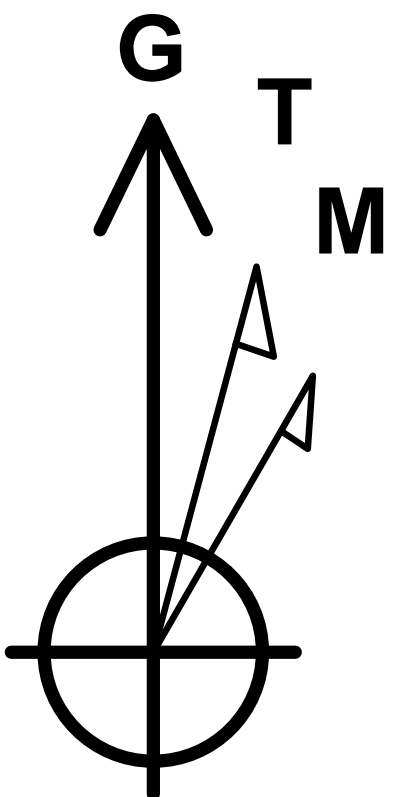
30 March, 2017





WELL DETAILS: GH

Ground Elevation: 2613.00
RKB Elevation: KB=30' (Nabors F34) @ 2643.00ft (Nabors F34)
Rig Name: Nabors F34
Wellbore: OH
Plan: PN6



Azimuths to Grid North
True North: 0.40°
Magnetic North: 5.90°

Magnetic Field
Strength: 47602.6snT
Dip Angle: 59.65°
Date: 1/23/2017
Model: HDGM

Northing 499189.160 Easting 1758738.310 Latitude 31° 2' 13.05761 N Longitude 101° 6' 13.30284 W



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
Site: University Salt Draw 3820

SECTION DETAILS

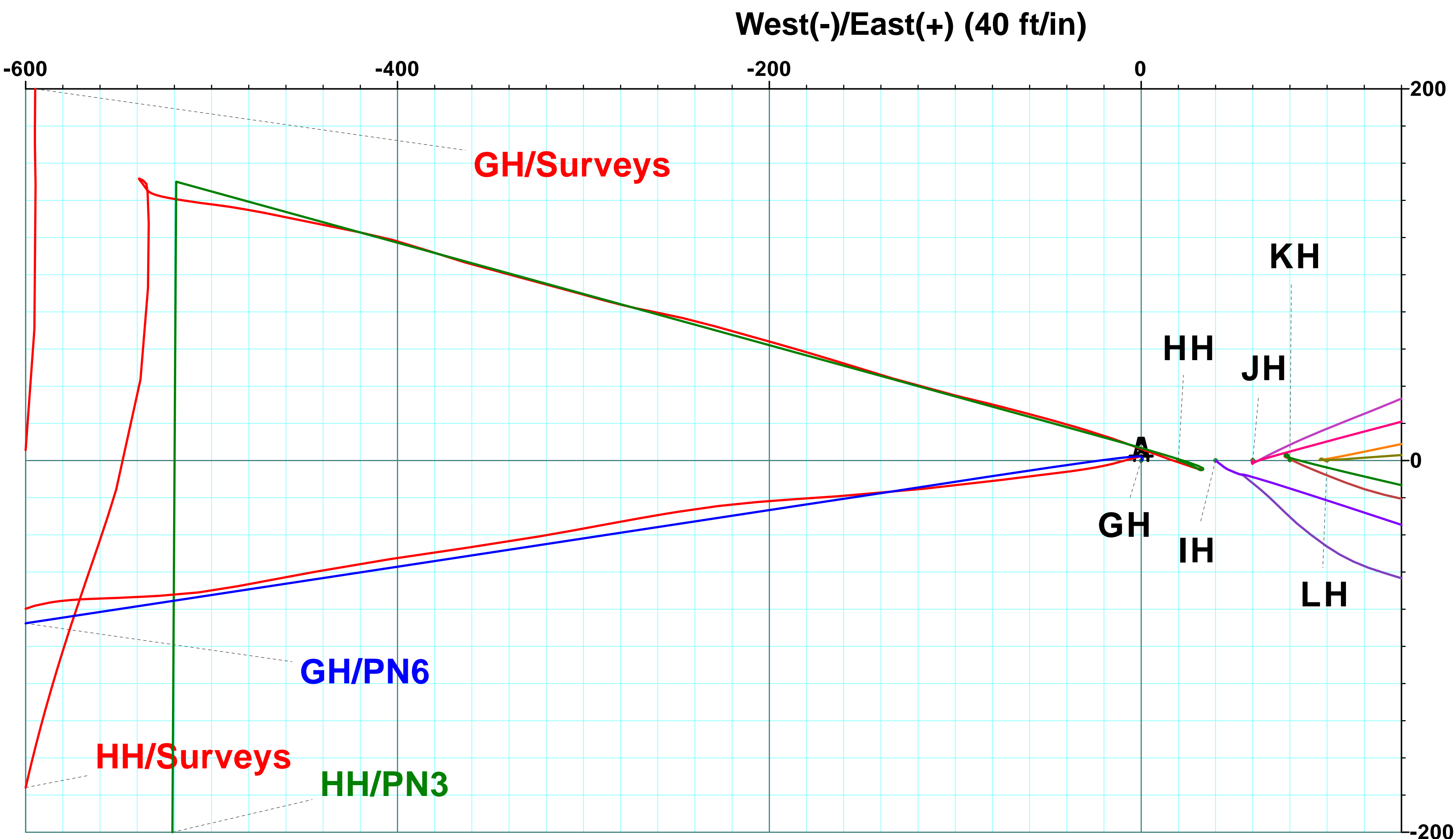
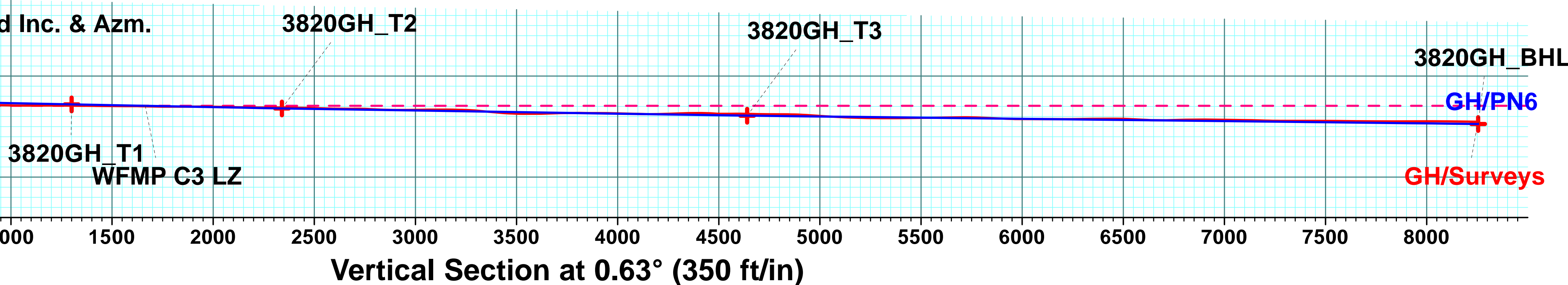
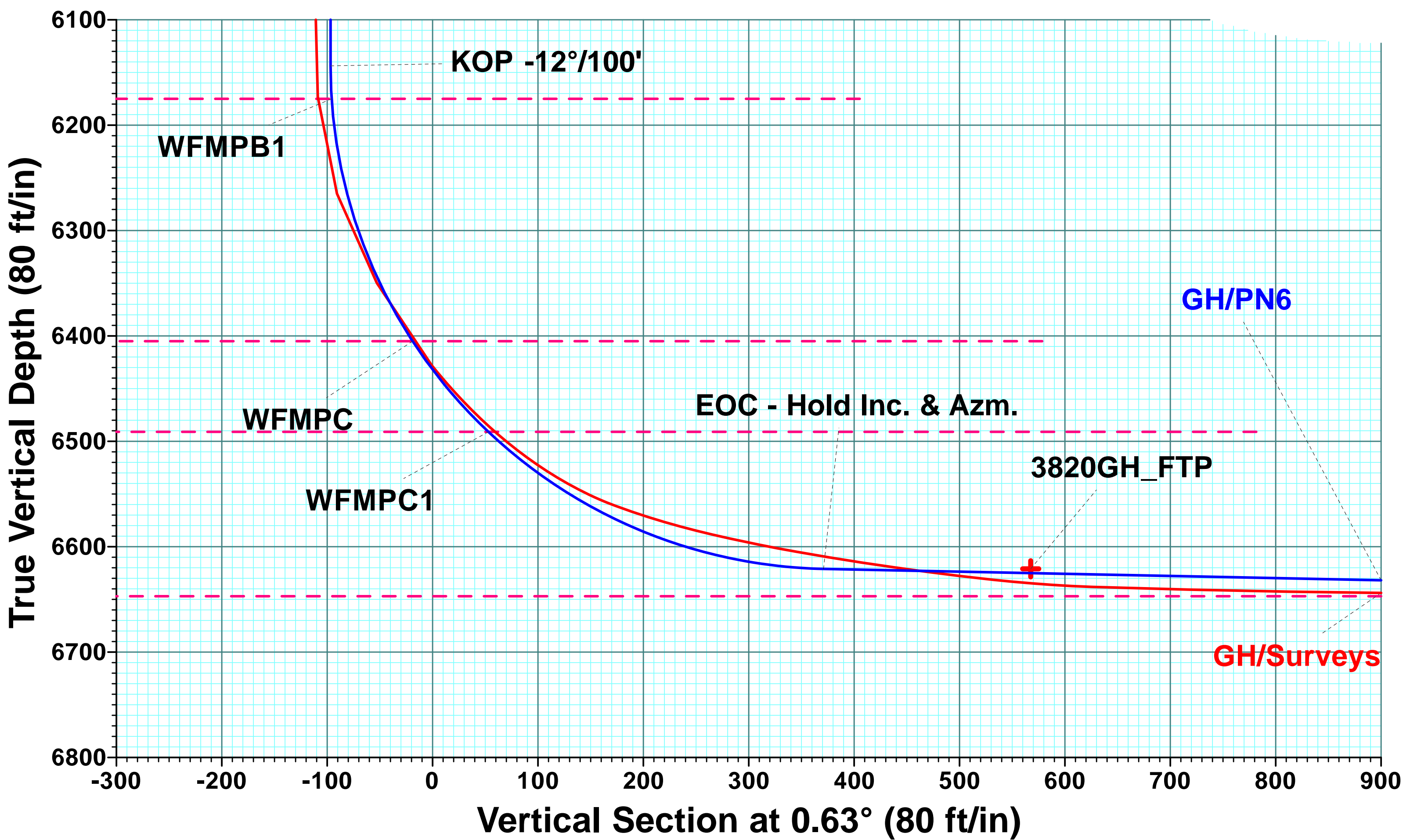
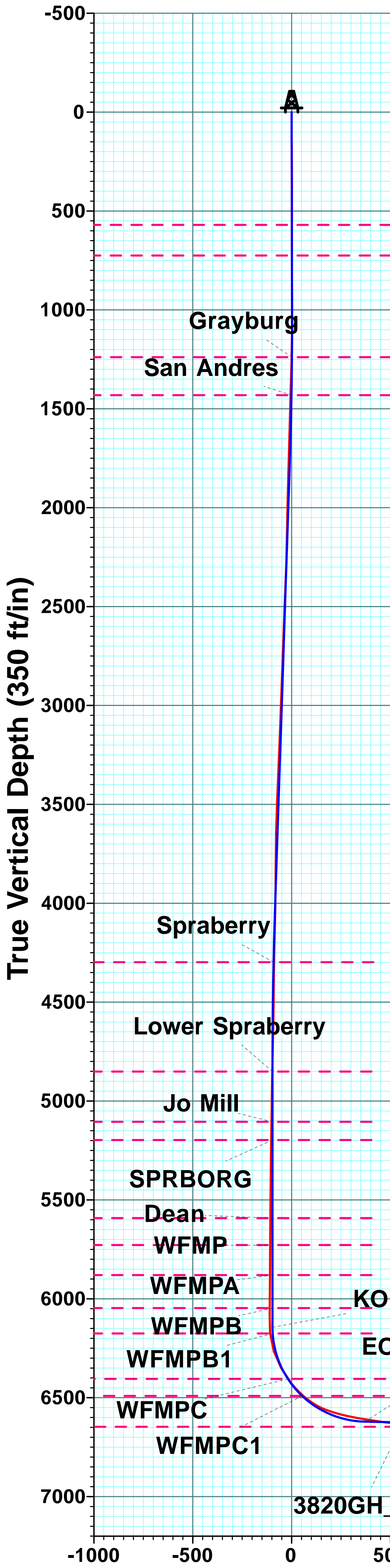
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
930.00	0.29	322.03	930.00	1.83	0.25	0.00	0.00	1.83
1000.01	0.29	322.03	1000.00	2.11	0.04	0.00	0.00	2.11
1764.35	11.60	261.34	1759.06	-7.98	-77.41	1.50	-61.94	-8.83
4084.37	11.60	261.34	4031.66	-78.24	-538.77	0.00	0.00	-84.16
4857.99	0.00	360.00	4800.00	-90.00	-615.95	1.50	180.00	-96.77
6201.71	0.00	360.00	6143.72	-90.00	-615.95	0.00	0.00	-96.77
6941.99	88.83	0.63	6621.09	377.72	-610.84	12.00	0.63	370.98
7871.20	88.83	0.63	6640.00	1306.68	-600.70	0.00	0.00	1300.00
7874.44	88.90	0.63	6640.06	1309.92	-600.66	2.00	2.20	1303.23
8911.39	88.90	0.63	6660.00	2346.62	-589.30	0.00	0.00	2340.00
8921.66	89.10	0.63	6660.18	2356.89	-589.19	2.00	-0.78	2350.26
11211.67	89.10	0.63	6696.00	4646.48	-564.20	0.00	0.00	4640.00
11224.01	89.35	0.63	6696.17	4658.82	-564.07	2.00	0.02	4652.33
14826.40	89.35	0.63	6737.00	8260.77	-524.75	0.00	0.00	8254.50

Target

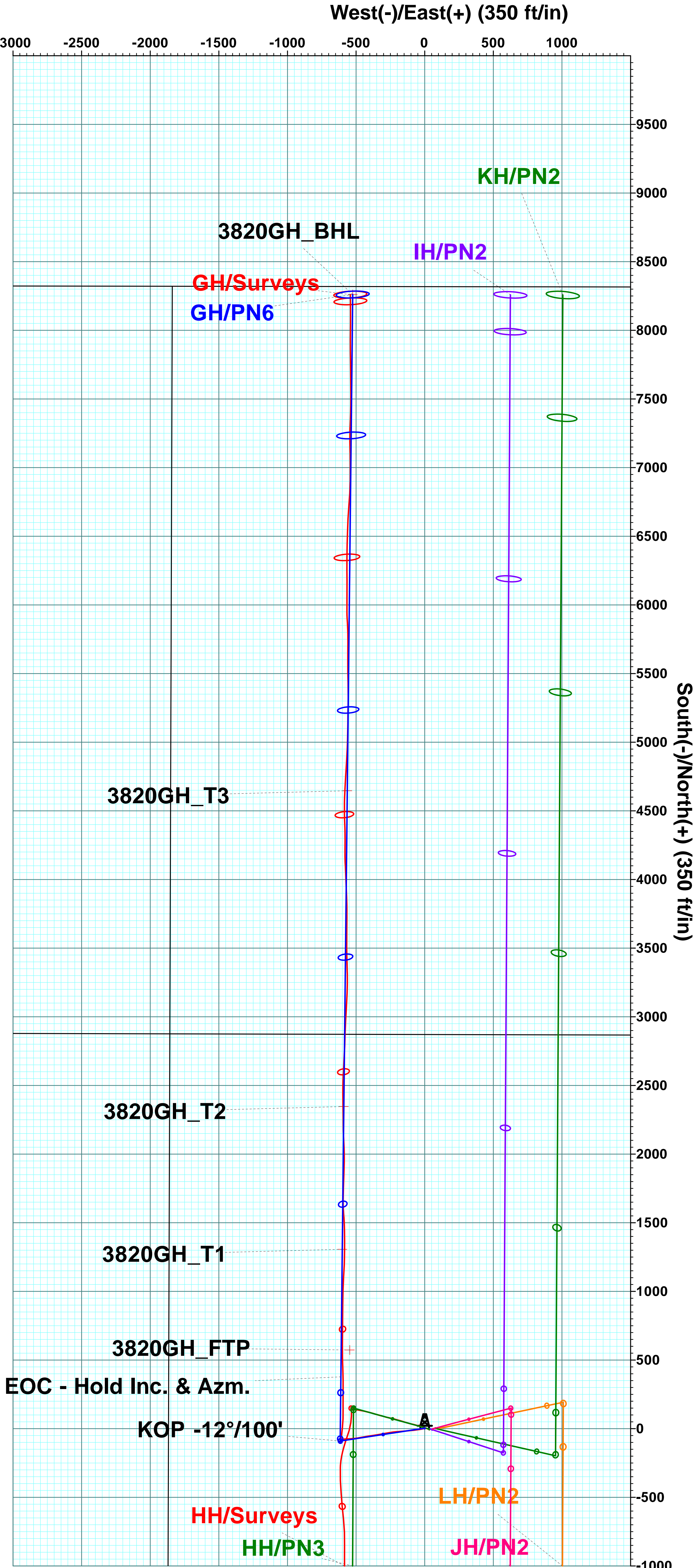
3820GH_T1
3820GH_T2
3820GH_T3
3820GH_BHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
3820GH_BHL	6737.00	8260.77	-524.75	507449.910	1758213.560
3820GH_FTP	6621.00	573.59	-545.87	499762.750	1758192.440
3820GH_T1	6640.00	1306.68	-600.70	500495.837	1758137.611
3820GH_T2	6660.00	2346.62	-589.30	501535.775	1758149.011
3820GH_T3	6696.00	4646.48	-564.20	503835.631	1758174.111



MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
6201.71	0.00	0.00	6143.72	-90.00	-615.95	-96.77	623.36	KOP -12°/100'
6941.99	88.83	0.63	6621.09	377.72	-610.84	370.98	1091.11	EOC - Hold Inc. & Azm.



Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well GH
Project:	Crockett Co, TX	TVD Reference:	KB=30' (Nabors F34) @ 2643.00ft (Nabors F34)
Site:	University Salt Draw 3820	MD Reference:	KB=30' (Nabors F34) @ 2643.00ft (Nabors F34)
Well:	GH	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 Salt Draw 3820			
Site Position:		Northing:	498,904.940 usft	Latitude:	31° 2' 10.13259 N
From:	Map	Easting:	1,757,113.810 usft	Longitude:	101° 6' 31.95308 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.40 °

Well	GH					
Well Position	+N/-S	0.00 ft	Northing:	499,189.160 usft	Latitude:	31° 2' 13.05761 N
	+E/-W	0.00 ft	Easting:	1,758,738.310 usft	Longitude:	101° 6' 13.30284 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	2,613.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/23/2017	5.50	59.65	47,602.60000000

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	0.35	

Survey Program	Date	3/30/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
30.00	930.00	Survey #1 (OH)	GYRO-NS	OWSG Gyrocompass Gyro	
1,081.00	14,835.00	Survey #2 (OH)	MWD+HRGM	OWSG MWD + HRGM	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30.00	0.00	360.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	
80.00	0.34	48.12	80.00	0.10	0.11	0.10	0.68	0.68	0.00	
130.00	0.38	56.27	130.00	0.29	0.36	0.29	0.13	0.08	16.30	
180.00	0.23	57.12	180.00	0.44	0.58	0.44	0.30	-0.30	1.70	
230.00	0.13	18.54	230.00	0.54	0.68	0.55	0.30	-0.20	-77.16	
280.00	0.20	33.26	280.00	0.67	0.75	0.68	0.16	0.14	29.44	
330.00	0.14	7.32	330.00	0.81	0.80	0.81	0.19	-0.12	-51.88	
380.00	0.10	330.13	380.00	0.90	0.79	0.91	0.17	-0.08	-74.38	
430.00	0.12	359.36	430.00	0.99	0.77	1.00	0.12	0.04	58.46	

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Well:	GH	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	0.10	0.10	480.00	1.09	0.77	1.09	0.04	-0.04	1.48
530.00	0.04	347.50	530.00	1.15	0.76	1.16	0.12	-0.12	-25.20
580.00	0.13	290.44	580.00	1.19	0.71	1.19	0.23	0.18	-114.12
630.00	0.18	238.79	630.00	1.17	0.59	1.17	0.28	0.10	-103.30
680.00	0.07	209.41	680.00	1.10	0.50	1.10	0.25	-0.22	-58.76
730.00	0.27	3.64	730.00	1.19	0.50	1.19	0.67	0.40	308.46
780.00	0.31	356.43	780.00	1.44	0.50	1.45	0.11	0.08	-14.42
830.00	0.14	314.23	830.00	1.62	0.44	1.62	0.45	-0.34	-84.40
880.00	0.11	314.13	880.00	1.70	0.37	1.70	0.06	-0.06	-0.20
930.00	0.29	322.03	930.00	1.83	0.25	1.83	0.36	0.36	15.80
1,081.00	0.38	284.34	1,080.99	2.25	-0.47	2.25	0.15	0.06	-24.96
1,269.00	6.38	253.40	1,268.58	-0.58	-11.09	-0.65	3.22	3.19	-16.46
1,456.00	10.38	262.54	1,453.56	-5.74	-37.76	-5.97	2.25	2.14	4.89
1,644.00	12.25	263.24	1,637.89	-10.28	-74.37	-10.74	1.00	0.99	0.37
1,832.00	14.19	263.60	1,820.90	-15.20	-117.08	-15.91	1.03	1.03	0.19
2,018.00	14.44	266.41	2,001.13	-19.19	-162.88	-20.19	0.40	0.13	1.51
2,206.00	12.56	265.35	2,183.93	-22.32	-206.65	-23.58	1.01	-1.00	-0.56
2,394.00	13.69	260.78	2,367.02	-27.54	-248.99	-29.06	0.82	0.60	-2.43
2,582.00	10.56	259.20	2,550.80	-34.33	-287.88	-36.09	1.67	-1.66	-0.84
2,769.00	11.81	260.26	2,734.25	-40.78	-323.57	-42.76	0.68	0.67	0.57
2,957.00	12.63	261.84	2,917.99	-46.95	-362.88	-49.17	0.47	0.44	0.84
3,145.00	13.00	261.31	3,101.30	-53.07	-404.13	-55.53	0.21	0.20	-0.28
3,332.00	12.69	259.55	3,283.62	-59.97	-445.12	-62.69	0.27	-0.17	-0.94
3,520.00	13.00	259.20	3,466.92	-67.68	-486.20	-70.65	0.17	0.16	-0.19
3,708.00	13.06	266.94	3,650.09	-72.77	-528.18	-76.00	0.93	0.03	4.12
3,896.00	8.69	268.17	3,834.67	-74.36	-563.60	-77.80	2.33	-2.32	0.65
4,083.00	5.63	260.43	4,020.20	-76.34	-586.77	-79.92	1.71	-1.64	-4.14
4,271.00	3.94	247.42	4,207.54	-80.35	-601.83	-84.03	1.06	-0.90	-6.92
4,459.00	1.00	252.17	4,395.34	-83.34	-609.36	-87.06	1.57	-1.56	2.53
4,646.00	1.38	215.43	4,582.31	-85.67	-612.22	-89.41	0.45	0.20	-19.65
4,834.00	1.25	213.85	4,770.26	-89.22	-614.67	-92.97	0.07	-0.07	-0.84
5,022.00	1.19	203.13	4,958.21	-92.72	-616.58	-96.48	0.13	-0.03	-5.70
5,209.00	0.94	178.52	5,145.18	-96.04	-617.31	-99.80	0.28	-0.13	-13.16
5,397.00	0.44	163.93	5,333.17	-98.27	-617.07	-102.04	0.28	-0.27	-7.76
5,585.00	0.75	165.33	5,521.16	-100.15	-616.55	-103.92	0.17	0.16	0.74
5,772.00	0.31	142.66	5,708.15	-101.74	-615.94	-105.50	0.26	-0.24	-12.12
5,960.00	0.44	164.81	5,896.15	-102.84	-615.44	-106.60	0.10	0.07	11.78
6,148.00	0.56	153.91	6,084.14	-104.36	-614.85	-108.12	0.08	0.06	-5.80
6,237.00	3.38	13.99	6,173.09	-102.21	-614.02	-105.96	4.30	3.17	-157.21
6,331.00	19.44	8.71	6,264.94	-83.94	-610.96	-87.67	17.10	17.09	-5.62
6,424.00	28.88	6.95	6,349.69	-46.26	-605.89	-49.96	10.18	10.15	-1.89
6,518.00	38.75	6.08	6,427.70	5.65	-600.01	1.99	10.51	10.50	-0.93
6,612.00	49.31	2.56	6,495.20	70.70	-595.29	67.07	11.53	11.23	-3.74

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well GH
Project:	Crockett Co, TX	TVD Reference:	KB=30' (Nabors F34) @ 2643.00ft (Nabors F34)
Site:	University Salt Draw 3820	MD Reference:	KB=30' (Nabors F34) @ 2643.00ft (Nabors F34)
Well:	GH	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)
6,706.00	62.94	358.69	6,547.48	148.54	-594.65	144.90	14.89	14.50	-4.12
6,737.00	69.38	359.75	6,560.00	176.87	-595.03	173.24	21.01	20.77	3.42
6,824.00	76.38	0.98	6,585.60	259.96	-594.49	256.33	8.16	8.05	1.41
6,918.00	80.00	358.87	6,604.84	351.95	-594.62	348.31	4.43	3.85	-2.24
7,012.00	81.88	357.99	6,619.64	444.74	-597.16	441.08	2.20	2.00	-0.94
7,106.00	83.81	359.04	6,631.35	537.97	-599.58	534.30	2.33	2.05	1.12
7,140.72	85.33	359.69	6,634.63	572.53	-599.96	568.86	4.77	4.39	1.88
3820GH_FTP									
7,200.00	87.94	0.80	6,638.11	631.70	-599.70	628.03	4.77	4.39	1.87
7,293.00	88.81	0.28	6,640.74	724.66	-598.83	720.99	1.09	0.94	-0.56
7,387.00	88.81	0.45	6,642.70	818.64	-598.23	814.97	0.18	0.00	0.18
7,481.00	89.75	0.45	6,643.88	912.63	-597.49	908.96	1.00	1.00	0.00
7,575.00	88.69	1.68	6,645.16	1,006.60	-595.74	1,002.94	1.73	-1.13	1.31
7,669.00	90.25	3.44	6,646.03	1,100.50	-591.55	1,096.86	2.50	1.66	1.87
7,762.00	90.25	3.09	6,645.62	1,193.34	-586.25	1,189.74	0.38	0.00	-0.38
7,856.00	89.31	359.40	6,645.98	1,287.30	-584.21	1,283.71	4.05	-1.00	-3.93
7,875.30	89.31	359.65	6,646.21	1,306.60	-584.37	1,303.01	1.31	0.00	1.31
3820GH_T1									
7,950.00	89.31	0.63	6,647.11	1,381.29	-584.18	1,377.70	1.31	0.00	1.31
8,044.00	89.13	357.81	6,648.39	1,475.27	-585.46	1,471.66	3.01	-0.19	-3.00
8,138.00	90.38	355.18	6,648.80	1,569.08	-591.21	1,565.44	3.10	1.33	-2.80
8,231.00	88.44	0.80	6,649.75	1,661.98	-594.47	1,658.31	6.39	-2.09	6.04
8,325.00	89.56	1.68	6,651.39	1,755.94	-592.44	1,752.29	1.52	1.19	0.94
8,419.00	90.50	2.56	6,651.34	1,849.87	-588.96	1,846.24	1.37	1.00	0.94
8,513.00	90.13	0.45	6,650.83	1,943.83	-586.49	1,940.21	2.28	-0.39	-2.24
8,606.00	88.44	358.17	6,651.99	2,036.81	-587.61	2,033.18	3.05	-1.82	-2.45
8,700.00	88.88	357.11	6,654.19	2,130.70	-591.48	2,127.05	1.22	0.47	-1.13
8,794.00	89.69	0.10	6,655.36	2,224.66	-593.77	2,220.99	3.30	0.86	3.18
8,888.00	89.44	358.69	6,656.07	2,318.65	-594.76	2,314.97	1.52	-0.27	-1.50
8,915.88	89.61	358.79	6,656.31	2,346.52	-595.37	2,342.84	0.71	0.60	0.38
3820GH_T2									
8,981.00	90.00	359.04	6,656.53	2,411.63	-596.60	2,407.94	0.71	0.60	0.38
9,075.00	88.00	2.21	6,658.17	2,505.59	-595.58	2,501.90	3.99	-2.13	3.37
9,169.00	88.13	2.21	6,661.34	2,599.47	-591.95	2,595.80	0.14	0.14	0.00
9,262.00	91.25	3.26	6,661.85	2,692.34	-587.52	2,688.71	3.54	3.35	1.13
9,356.00	86.69	2.03	6,663.54	2,786.20	-583.18	2,782.59	5.02	-4.85	-1.31
9,450.00	88.94	1.33	6,667.12	2,880.09	-580.43	2,876.49	2.51	2.39	-0.74
9,544.00	90.50	3.61	6,667.58	2,973.99	-576.38	2,970.41	2.94	1.66	2.43
9,638.00	91.13	3.26	6,666.24	3,067.81	-570.75	3,064.27	0.77	0.67	-0.37
9,731.00	89.63	2.38	6,665.62	3,160.69	-566.17	3,157.18	1.87	-1.61	-0.95
9,825.00	88.00	0.28	6,667.57	3,254.64	-563.99	3,251.13	2.83	-1.73	-2.23
9,919.00	83.56	358.17	6,674.49	3,348.35	-565.25	3,344.83	5.23	-4.72	-2.24
10,012.00	86.06	358.87	6,682.90	3,440.93	-567.64	3,437.40	2.79	2.69	0.75
10,106.00	89.25	0.28	6,686.74	3,534.83	-568.34	3,531.29	3.71	3.39	1.50

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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)
10,200.00	91.19	0.28	6,686.38	3,628.82	-567.88	3,625.29	2.06	2.06	0.00
10,293.00	92.56	0.45	6,683.34	3,721.77	-567.29	3,718.24	1.48	1.47	0.18
10,387.00	88.94	359.04	6,682.11	3,815.74	-567.70	3,812.20	4.13	-3.85	-1.50
10,481.00	90.06	357.29	6,682.93	3,909.69	-570.71	3,906.13	2.21	1.19	-1.86
10,575.00	88.44	358.34	6,684.16	4,003.61	-574.30	4,000.02	2.05	-1.72	1.12
10,669.00	88.31	356.76	6,686.83	4,097.48	-578.31	4,093.87	1.69	-0.14	-1.68
10,762.00	90.06	0.10	6,688.15	4,190.42	-580.86	4,186.79	4.05	1.88	3.59
10,856.00	93.06	0.45	6,685.59	4,284.37	-580.41	4,280.75	3.21	3.19	0.37
10,950.00	90.63	357.99	6,682.56	4,378.30	-581.69	4,374.66	3.68	-2.59	-2.62
11,044.00	86.69	357.81	6,684.76	4,472.19	-585.13	4,468.53	4.20	-4.19	-0.19
11,065.48	87.72	358.90	6,685.81	4,493.64	-585.75	4,489.97	6.96	4.78	5.06
3820GH_T4									
11,138.00	91.19	2.56	6,686.50	4,566.12	-584.83	4,562.47	6.96	4.79	5.05
11,219.23	88.57	2.40	6,686.67	4,647.27	-581.31	4,643.63	3.23	-3.23	-0.19
3820GH_T3									
11,231.00	88.19	2.38	6,687.00	4,659.03	-580.82	4,655.39	3.23	-3.23	-0.19
11,325.00	89.56	3.61	6,688.85	4,752.88	-575.91	4,749.27	1.96	1.46	1.31
11,419.00	89.94	3.79	6,689.26	4,846.68	-569.84	4,843.11	0.45	0.40	0.19
11,513.00	85.81	1.86	6,692.74	4,940.48	-565.21	4,936.93	4.85	-4.39	-2.05
11,607.00	86.50	1.86	6,699.05	5,034.21	-562.17	5,030.69	0.73	0.73	0.00
11,701.00	87.19	0.63	6,704.22	5,128.05	-560.13	5,124.53	1.50	0.73	-1.31
11,795.00	88.81	0.28	6,707.50	5,221.98	-559.38	5,218.47	1.76	1.72	-0.37
11,889.00	90.44	1.86	6,708.12	5,315.96	-557.63	5,312.45	2.41	1.73	1.68
11,982.00	89.50	357.99	6,708.17	5,408.94	-557.75	5,405.43	4.28	-1.01	-4.16
12,076.00	91.38	359.22	6,707.44	5,502.90	-560.04	5,499.38	2.39	2.00	1.31
12,170.00	91.31	0.28	6,705.24	5,596.87	-560.45	5,593.35	1.13	-0.07	1.13
12,264.00	90.63	0.45	6,703.65	5,690.86	-559.85	5,687.33	0.75	-0.72	0.18
12,358.00	87.88	359.22	6,704.87	5,784.84	-560.12	5,781.31	3.20	-2.93	-1.31
12,451.00	87.19	356.23	6,708.87	5,877.67	-563.81	5,874.12	3.30	-0.74	-3.22
12,545.00	88.38	359.92	6,712.50	5,971.53	-566.96	5,967.95	4.12	1.27	3.93
12,638.00	90.88	0.98	6,713.10	6,064.51	-566.23	6,060.94	2.92	2.69	1.14
12,732.00	89.13	358.69	6,713.10	6,158.50	-566.50	6,154.93	3.07	-1.86	-2.44
12,826.00	90.94	0.80	6,713.04	6,252.49	-566.92	6,248.91	2.96	1.93	2.24
12,920.00	90.69	359.75	6,711.70	6,346.48	-566.47	6,342.90	1.15	-0.27	-1.12
13,014.00	90.44	1.86	6,710.77	6,440.46	-565.15	6,436.89	2.26	-0.27	2.24
13,107.00	87.50	1.33	6,712.45	6,533.40	-562.56	6,529.84	3.21	-3.16	-0.57
13,201.00	86.56	2.91	6,717.32	6,627.21	-559.09	6,623.67	1.95	-1.00	1.68
13,295.00	91.75	5.02	6,718.70	6,720.93	-552.59	6,717.43	5.96	5.52	2.24
13,389.00	91.63	2.91	6,715.93	6,814.66	-546.09	6,811.20	2.25	-0.13	-2.24
13,483.00	89.38	0.98	6,715.10	6,908.59	-542.90	6,905.15	3.15	-2.39	-2.05
13,577.00	89.25	359.75	6,716.23	7,002.58	-542.31	6,999.14	1.32	-0.14	-1.31
13,670.00	89.25	359.22	6,717.44	7,095.57	-543.14	7,092.12	0.57	0.00	-0.57
13,764.00	88.13	358.34	6,719.59	7,189.52	-545.14	7,186.06	1.52	-1.19	-0.94

Company:	EP Energy E&P Company, L.P.	Local Co-ordinate Reference:	Well GH
Project:	Crockett Co, TX	TVD Reference:	KB=30' (Nabors F34) @ 2643.00ft (Nabors F34)
Site:	University Salt Draw 3820	MD Reference:	KB=30' (Nabors F34) @ 2643.00ft (Nabors F34)
Well:	GH	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)	
13,858.00	89.75	2.21	6,721.33	7,283.49	-544.69	7,280.02	4.46	1.72	4.12	
13,952.00	90.25	2.38	6,721.33	7,377.41	-540.93	7,373.97	0.56	0.53	0.18	
14,046.00	89.50	0.45	6,721.54	7,471.38	-538.60	7,467.95	2.20	-0.80	-2.05	
14,139.00	89.63	359.75	6,722.24	7,564.37	-538.44	7,560.94	0.77	0.14	-0.75	
14,233.00	89.25	358.87	6,723.16	7,658.36	-539.57	7,654.92	1.02	-0.40	-0.94	
14,327.00	89.88	359.40	6,723.87	7,752.35	-540.99	7,748.90	0.88	0.67	0.56	
14,420.00	89.88	359.57	6,724.07	7,845.34	-541.83	7,841.89	0.18	0.00	0.18	
14,514.00	90.50	0.28	6,723.76	7,939.34	-541.95	7,935.88	1.00	0.66	0.76	
14,608.00	89.94	0.98	6,723.40	8,033.33	-540.92	8,029.88	0.95	-0.60	0.74	
14,702.00	89.13	359.40	6,724.16	8,127.33	-540.61	8,123.87	1.89	-0.86	-1.68	
14,786.00	89.25	359.40	6,725.35	8,211.31	-541.49	8,207.85	0.14	0.14	0.00	
14,835.00	89.25	359.40	6,725.99	8,260.31	-542.00	8,256.84	0.00	0.00	0.00	
PTB - 3820GH_BHL										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
14,835.00	6,725.99	8,260.31	-542.00	PTB	

Checked By: _____	Approved By: _____	Date: _____
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