



NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 16 2019

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Mewbourne Oil Company

Eddy County, New Mexico (Nad 83)

Sec 16, T20-S,R29-E

Glock 16 B2HE Fed #1H

30-015-43804

Wellbore #1

Design: Wellbore #1

QES Survey Report

21 August, 2018





Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico (Nad 83)
Site: Sec 16, T20-S,R29-E
Well: Glock 16 B2HE Fed #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Glock 16 B2HE Fed #1H
TVD Reference: WELL @ 3317.0usft (Patterson #230)
MD Reference: WELL @ 3317.0usft (Patterson #230)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Eddy County, New Mexico (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 16, T20-S,R29-E			
Site Position:		Northing:	572,700.08 usft	Latitude:	32° 34' 26.886 N
From:	Map	Easting:	621,945.49 usft	Longitude:	104° 4' 17.955 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.14 °

Well	Glock 16 B2HE Fed #1H					
Well Position	+N/-S	0.0 usft	Northing:	572,700.08 usft	Latitude:	32° 34' 26.886 N
	+E/-W	0.0 usft	Easting:	621,945.49 usft	Longitude:	104° 4' 17.955 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,290.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/11/2018	7.10	60.29	47,983.42019000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	271.96	

Survey Program	Date 8/21/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	3,175.0	Phoenix Gyros (Wellbore #1)	Good_gyro	Good Gyro
3,245.0	13,025.0	QES MWD Surveys (Wellbore #1)	MWD default	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.27	25.89	100.0	0.2	0.1	-0.1	0.27	0.27	0.00
200.0	0.50	41.49	200.0	0.8	0.5	-0.5	0.25	0.23	15.60
300.0	0.96	10.94	300.0	1.9	0.9	-0.9	0.59	0.46	-30.55
400.0	1.08	358.66	400.0	3.7	1.1	-1.0	0.25	0.12	-12.28
500.0	0.24	328.51	500.0	4.8	0.9	-0.8	0.88	-0.84	-30.15
600.0	0.55	174.99	600.0	4.5	0.9	-0.7	0.77	0.31	-153.52
700.0	0.48	192.27	700.0	3.6	0.8	-0.7	0.17	-0.07	17.28
800.0	0.17	149.49	800.0	3.1	0.8	-0.7	0.37	-0.31	-42.78
900.0	0.28	64.14	900.0	3.0	1.1	-1.0	0.32	0.11	-85.35

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 16 B2HE Fed #1H
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Site:	Sec 16, T20-S,R29-E	MD Reference:	WELL @ 3317.0usft (Patterson #230)
Well:	Glock 16 B2HE Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.56	89.70	1,000.0	3.1	1.8	-1.7	0.33	0.28	25.56
1,100.0	0.76	73.86	1,099.9	3.3	2.9	-2.8	0.27	0.20	-15.84
1,200.0	0.57	66.70	1,199.9	3.7	4.0	-3.9	0.21	-0.19	-7.16
1,300.0	0.53	35.88	1,299.9	4.3	4.8	-4.6	0.29	-0.04	-30.82
1,400.0	0.97	335.88	1,399.9	5.4	4.7	-4.5	0.84	0.44	-60.00
1,500.0	1.38	340.96	1,499.9	7.3	4.0	-3.7	0.42	0.41	5.08
1,600.0	1.74	332.63	1,599.9	9.8	2.9	-2.5	0.42	0.36	-8.33
1,700.0	1.99	334.82	1,699.8	12.8	1.4	-1.0	0.26	0.25	2.19
1,800.0	2.45	341.46	1,799.7	16.4	0.0	0.5	0.53	0.46	6.64
1,900.0	2.73	346.09	1,899.6	20.7	-1.2	1.9	0.35	0.28	4.63
2,000.0	3.10	351.34	1,999.5	25.7	-2.2	3.1	0.46	0.37	5.25
2,100.0	3.16	357.23	2,099.4	31.1	-2.8	3.8	0.33	0.06	5.89
2,200.0	3.32	358.54	2,199.2	36.7	-3.0	4.2	0.18	0.16	1.31
2,300.0	3.60	0.31	2,299.0	42.8	-3.0	4.5	0.30	0.28	1.77
2,400.0	3.75	5.47	2,398.8	49.2	-2.7	4.4	0.36	0.15	5.16
2,500.0	3.10	10.69	2,498.6	55.1	-1.9	3.8	0.72	-0.65	5.22
2,600.0	3.07	5.93	2,598.5	60.4	-1.1	3.2	0.26	-0.03	-4.76
2,700.0	3.15	10.64	2,698.3	65.8	-0.3	2.6	0.27	0.08	4.71
2,800.0	2.63	7.31	2,798.2	70.7	0.5	1.9	0.55	-0.52	-3.33
2,900.0	2.91	5.75	2,898.1	75.6	1.0	1.6	0.29	0.28	-1.56
3,000.0	2.49	8.10	2,998.0	80.2	1.6	1.2	0.43	-0.42	2.35
3,100.0	2.20	6.22	3,097.9	84.3	2.1	0.8	0.30	-0.29	-1.88
3,175.0	2.32	6.34	3,172.9	87.2	2.4	0.6	0.16	0.16	0.16
Phoenix Gyro Tie-In @ 3175.1' MD / 3172.9' TVD									
3,175.1	2.32	6.34	3,172.9	87.2	2.4	0.6	0.00	0.00	0.00
3,245.0	2.10	2.00	3,242.8	89.9	2.6	0.5	0.40	-0.31	-6.21
3,309.0	2.10	4.30	3,306.8	92.3	2.8	0.4	0.13	0.00	3.59
3,403.0	2.10	4.80	3,400.7	95.7	3.0	0.2	0.02	0.00	0.53
3,497.0	1.80	8.70	3,494.6	98.9	3.4	0.0	0.35	-0.32	4.15
3,592.0	2.20	8.90	3,589.6	102.1	3.9	-0.4	0.42	0.42	0.21
3,686.0	2.20	12.10	3,683.5	105.7	4.6	-0.9	0.13	0.00	3.40
3,780.0	2.10	8.70	3,777.4	109.2	5.2	-1.5	0.17	-0.11	-3.62
3,875.0	1.90	1.70	3,872.4	112.4	5.5	-1.7	0.33	-0.21	-7.37
3,969.0	1.30	41.60	3,966.3	114.8	6.3	-2.3	1.31	-0.64	42.45
4,064.0	1.50	65.80	4,061.3	116.1	8.1	-4.1	0.65	0.21	25.47
4,158.0	1.10	57.60	4,155.3	117.1	10.0	-6.0	0.47	-0.43	-8.72
4,252.0	1.40	56.30	4,249.3	118.2	11.7	-7.7	0.32	0.32	-1.38
4,347.0	1.30	31.90	4,344.2	119.8	13.2	-9.1	0.61	-0.11	-25.68
4,441.0	1.00	35.60	4,438.2	121.4	14.3	-10.1	0.33	-0.32	3.94
4,535.0	1.10	47.90	4,532.2	122.6	15.4	-11.2	0.26	0.11	13.09
4,630.0	0.90	44.40	4,627.2	123.8	16.6	-12.4	0.22	-0.21	-3.68
4,725.0	0.90	50.40	4,722.2	124.8	17.7	-13.5	0.10	0.00	6.32
4,819.0	0.90	111.40	4,816.2	125.0	19.0	-14.7	0.97	0.00	64.89

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,913.0	1.10	74.30	4,910.2	125.0	20.5	-16.3	0.71	0.21	-39.47
5,008.0	2.40	40.90	5,005.1	126.7	22.7	-18.4	1.68	1.37	-35.16
5,103.0	2.70	44.80	5,100.0	129.8	25.6	-21.1	0.36	0.32	4.11
5,197.0	2.70	29.60	5,193.9	133.3	28.3	-23.7	0.76	0.00	-16.17
5,292.0	2.50	1.00	5,288.8	137.3	29.4	-24.7	1.37	-0.21	-30.11
5,386.0	2.10	351.50	5,382.8	141.1	29.2	-24.3	0.59	-0.43	-10.11
5,480.0	1.20	4.30	5,476.7	143.8	29.0	-24.1	1.03	-0.96	13.62
5,574.0	1.40	19.10	5,570.7	145.8	29.4	-24.4	0.41	0.21	15.74
5,669.0	1.10	13.30	5,665.7	147.8	30.0	-25.0	0.34	-0.32	-6.11
5,764.0	1.20	7.80	5,760.6	149.7	30.4	-25.2	0.16	0.11	-5.79
5,858.0	1.10	21.40	5,854.6	151.5	30.8	-25.6	0.31	-0.11	14.47
5,953.0	0.70	43.20	5,949.6	152.8	31.6	-26.3	0.55	-0.42	22.95
6,047.0	0.90	46.00	6,043.6	153.7	32.5	-27.2	0.22	0.21	2.98
6,142.0	1.80	36.50	6,138.6	155.4	33.9	-28.6	0.97	0.95	-10.00
6,236.0	1.70	42.50	6,232.5	157.6	35.7	-30.3	0.22	-0.11	6.38
6,331.0	1.50	56.30	6,327.5	159.4	37.7	-32.3	0.46	-0.21	14.53
6,425.0	1.70	15.90	6,421.5	161.4	39.1	-33.6	1.19	0.21	-42.98
6,520.0	1.30	17.90	6,516.4	163.8	39.9	-34.2	0.42	-0.42	2.11
6,614.0	0.40	21.90	6,610.4	165.1	40.3	-34.6	0.96	-0.96	4.26
6,709.0	1.90	10.80	6,705.4	166.9	40.7	-35.0	1.59	1.58	-11.68
6,803.0	1.80	10.50	6,799.4	169.9	41.3	-35.4	0.11	-0.11	-0.32
6,899.0	1.90	10.80	6,895.3	173.0	41.9	-35.9	0.10	0.10	0.31
6,993.0	1.50	19.40	6,989.3	175.7	42.6	-36.5	0.50	-0.43	9.15
7,088.0	1.50	2.20	7,084.2	178.1	43.0	-36.9	0.47	0.00	-18.11
7,182.0	1.70	8.50	7,178.2	180.7	43.3	-37.1	0.28	0.21	6.70
7,277.0	1.60	8.20	7,273.2	183.4	43.7	-37.4	0.11	-0.11	-0.32
7,372.0	1.70	8.90	7,368.1	186.1	44.1	-37.7	0.11	0.11	0.74
7,466.0	1.10	23.30	7,462.1	188.3	44.6	-38.2	0.74	-0.64	15.32
7,550.0	1.00	54.40	7,546.1	189.5	45.6	-39.1	0.68	-0.12	37.02
7,616.0	2.40	273.60	7,612.1	189.9	44.7	-38.1	4.90	2.12	-213.33
7,648.0	6.90	269.80	7,643.9	189.9	42.1	-35.5	14.09	14.06	-11.88
7,679.0	11.80	270.10	7,674.5	189.9	37.0	-30.5	15.81	15.81	0.97
7,711.0	17.00	271.00	7,705.5	190.0	29.1	-22.6	16.26	16.25	2.81
7,742.0	22.30	271.30	7,734.7	190.2	18.7	-12.1	17.10	17.10	0.97
7,774.0	26.70	271.20	7,763.8	190.5	5.4	1.1	13.75	13.75	-0.31
7,805.0	30.40	270.30	7,791.0	190.7	-9.4	15.9	12.02	11.94	-2.90
7,837.0	34.10	269.00	7,818.1	190.6	-26.5	33.0	11.76	11.56	-4.06
HL Crossed @ 7861.0' MD / 7837.7' TVD									
7,861.0	35.96	268.92	7,837.7	190.3	-40.3	46.8	7.74	7.74	-0.33
7,868.0	36.50	268.90	7,843.4	190.3	-44.4	50.9	7.74	7.74	-0.31
7,899.0	39.00	268.90	7,867.9	189.9	-63.4	69.8	8.06	8.06	0.00
7,931.0	41.70	268.70	7,892.3	189.5	-84.1	90.5	8.45	8.44	-0.63
7,963.0	44.40	269.20	7,915.7	189.1	-105.9	112.3	8.50	8.44	1.56
7,994.0	47.00	268.70	7,937.3	188.6	-128.1	134.5	8.47	8.39	-1.61

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8,026.0	50.30	268.90	7,958.4	188.1	-152.1	158.5	10.32	10.31	0.63
8,057.0	52.80	269.60	7,977.7	187.8	-176.4	182.7	8.26	8.06	2.26
8,089.0	55.60	270.50	7,996.4	187.9	-202.3	208.7	9.04	8.75	2.81
8,121.0	58.50	270.80	8,013.8	188.2	-229.2	235.5	9.10	9.06	0.94
8,153.0	62.00	270.60	8,029.7	188.5	-257.0	263.3	10.95	10.94	-0.63
8,184.0	65.60	270.30	8,043.4	188.7	-284.8	291.1	11.65	11.61	-0.97
8,215.0	69.20	271.00	8,055.3	189.0	-313.4	319.7	11.80	11.61	2.26
8,247.0	72.70	270.80	8,065.8	189.5	-343.6	349.9	10.95	10.94	-0.63
8,278.0	77.10	270.50	8,073.8	189.9	-373.6	379.8	14.22	14.19	-0.97
8,310.0	80.40	269.80	8,080.1	189.9	-404.9	411.2	10.53	10.31	-2.19
8,341.0	82.80	269.60	8,084.6	189.8	-435.6	441.8	7.77	7.74	-0.65
8,370.0	84.80	269.20	8,087.7	189.5	-464.4	470.6	7.03	6.90	-1.38
8,431.0	88.40	269.80	8,091.4	188.9	-525.3	531.5	5.98	5.90	0.98
8,525.0	88.60	268.50	8,093.8	187.6	-619.3	625.3	1.40	0.21	-1.38
8,620.0	89.60	269.40	8,095.3	185.8	-714.2	720.2	1.42	1.05	0.95
8,683.0	89.20	269.00	8,096.0	184.9	-777.2	783.1	0.90	-0.63	-0.63
8,777.0	90.30	269.80	8,096.4	183.9	-871.2	877.0	1.45	1.17	0.85
8,872.0	91.40	269.90	8,095.0	183.7	-966.2	971.9	1.16	1.16	0.11
8,967.0	91.20	269.40	8,092.8	183.1	-1,061.2	1,066.8	0.57	-0.21	-0.53
9,061.0	90.70	269.20	8,091.3	182.0	-1,155.2	1,160.7	0.57	-0.53	-0.21
9,156.0	90.00	268.70	8,090.7	180.2	-1,250.1	1,255.6	0.91	-0.74	-0.53
9,250.0	90.00	269.80	8,090.7	179.0	-1,344.1	1,349.5	1.17	0.00	1.17
9,345.0	91.40	271.00	8,089.5	179.7	-1,439.1	1,444.4	1.94	1.47	1.26
9,440.0	91.40	270.80	8,087.2	181.2	-1,534.1	1,539.4	0.21	0.00	-0.21
9,534.0	91.40	270.30	8,084.9	182.1	-1,628.0	1,633.3	0.53	0.00	-0.53
9,629.0	91.40	269.90	8,082.6	182.2	-1,723.0	1,728.2	0.42	0.00	-0.42
9,723.0	91.40	269.40	8,080.3	181.6	-1,817.0	1,822.1	0.53	0.00	-0.53
9,818.0	91.10	268.90	8,078.2	180.2	-1,911.9	1,917.0	0.61	-0.32	-0.53
9,913.0	91.00	268.40	8,076.5	178.0	-2,006.9	2,011.8	0.54	-0.11	-0.53
10,007.0	90.80	268.40	8,075.0	175.4	-2,100.9	2,105.6	0.21	-0.21	0.00
10,102.0	90.90	267.60	8,073.6	172.1	-2,195.8	2,200.4	0.85	0.11	-0.84
10,197.0	91.20	266.90	8,071.8	167.5	-2,290.7	2,295.0	0.80	0.32	-0.74
10,292.0	90.50	268.50	8,070.4	163.7	-2,385.6	2,389.8	1.84	-0.74	1.68
10,386.0	89.60	269.40	8,070.3	162.0	-2,479.6	2,483.6	1.35	-0.96	0.96
10,480.0	89.90	269.60	8,070.8	161.1	-2,573.5	2,577.6	0.38	0.32	0.21
10,574.0	89.50	268.50	8,071.2	159.6	-2,667.5	2,671.4	1.25	-0.43	-1.17
10,669.0	91.20	269.00	8,070.7	157.5	-2,762.5	2,766.3	1.87	1.79	0.53
10,763.0	91.70	271.70	8,068.3	158.1	-2,856.5	2,860.2	2.92	0.53	2.87
10,858.0	92.50	272.90	8,064.8	161.9	-2,951.3	2,955.1	1.52	0.84	1.26
10,953.0	93.10	271.90	8,060.2	165.9	-3,046.1	3,050.0	1.23	0.63	-1.05
11,047.0	92.90	271.30	8,055.2	168.5	-3,140.0	3,143.9	0.67	-0.21	-0.64
11,142.0	92.20	270.30	8,051.0	169.8	-3,234.9	3,238.8	1.28	-0.74	-1.05
11,236.0	90.60	270.50	8,048.7	170.5	-3,328.8	3,332.7	1.72	-1.70	0.21



Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 16 B2HE Fed #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3317.0usft (Patterson #230)
Site:	Sec 16, T20-S,R29-E	MD Reference:	WELL @ 3317.0usft (Patterson #230)
Well:	Glock 16 B2HE Fed #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,331.0	89.50	271.20	8,048.6	171.9	-3,423.8	3,427.7	1.37	-1.16	0.74
11,425.0	89.80	271.70	8,049.2	174.3	-3,517.8	3,521.7	0.62	0.32	0.53
11,519.0	88.00	272.20	8,051.0	177.5	-3,611.7	3,615.7	1.99	-1.91	0.53
11,614.0	87.80	271.70	8,054.5	180.7	-3,706.6	3,710.6	0.57	-0.21	-0.53
11,708.0	87.90	271.50	8,058.0	183.3	-3,800.5	3,804.5	0.24	0.11	-0.21
11,809.0	89.10	272.20	8,060.7	186.6	-3,901.4	3,905.5	1.38	1.19	0.69
11,895.0	89.20	272.20	8,061.9	189.9	-3,987.3	3,991.5	0.12	0.12	0.00
11,990.0	91.40	271.70	8,061.4	193.1	-4,082.2	4,086.5	2.37	2.32	-0.53
12,085.0	91.00	271.90	8,059.5	196.1	-4,177.2	4,181.4	0.47	-0.42	0.21
12,180.0	91.20	271.90	8,057.6	199.2	-4,272.1	4,276.4	0.21	0.21	0.00
12,275.0	91.50	271.90	8,055.4	202.4	-4,367.0	4,371.4	0.32	0.32	0.00
12,369.0	91.50	271.50	8,052.9	205.2	-4,461.0	4,465.4	0.43	0.00	-0.43
12,464.0	91.60	271.70	8,050.4	207.8	-4,555.9	4,560.3	0.24	0.11	0.21
12,559.0	92.20	272.20	8,047.2	211.1	-4,650.8	4,655.3	0.82	0.63	0.53
12,654.0	92.50	272.90	8,043.3	215.3	-4,745.6	4,750.2	0.80	0.32	0.74
12,749.0	92.90	275.20	8,038.8	222.0	-4,840.3	4,845.0	2.45	0.42	2.42
12,843.0	93.00	275.40	8,034.0	230.7	-4,933.7	4,938.7	0.24	0.11	0.21
12,938.0	93.30	275.60	8,028.8	239.7	-5,028.1	5,033.4	0.38	0.32	0.21
12,965.0	93.30	275.60	8,027.2	242.4	-5,055.0	5,060.3	0.00	0.00	0.00
TD @ 13025.0' MD / 8023.8' TVD									
13,025.0	93.30	275.60	8,023.8	248.2	-5,114.6	5,120.1	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,175.1	3,172.9	87.2	2.4	Phoenix Gyro Tie-In @ 3175.1' MD / 3172.9' TVD
7,861.0	7,837.7	190.3	-40.3	HL Crossed @ 7861.0' MD / 7837.7' TVD
13,025.0	8,023.8	248.2	-5,114.6	TD @ 13025.0' MD / 8023.8' TVD

Checked By:	_____	Approved By:	_____	Date:	_____
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Company Name: Mewbourne Oil Company
 Glock 16 B2HE Fed #1H
 Eddy County, New Mexico (Nad 83)
 Rig: Patterson #230
 Created By: Shane Robbins
 Date: 8/21/2018

Glock 16 B2HE Fed #1H
 Eddy County, New Mexico (Nad 83)
 Q180982 & WT-180815
 Design #1

PROJECT DETAILS: Eddy County, New Mexico (Nad 83)

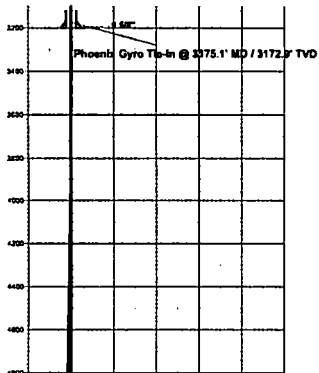
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



Azimuths to Grid North

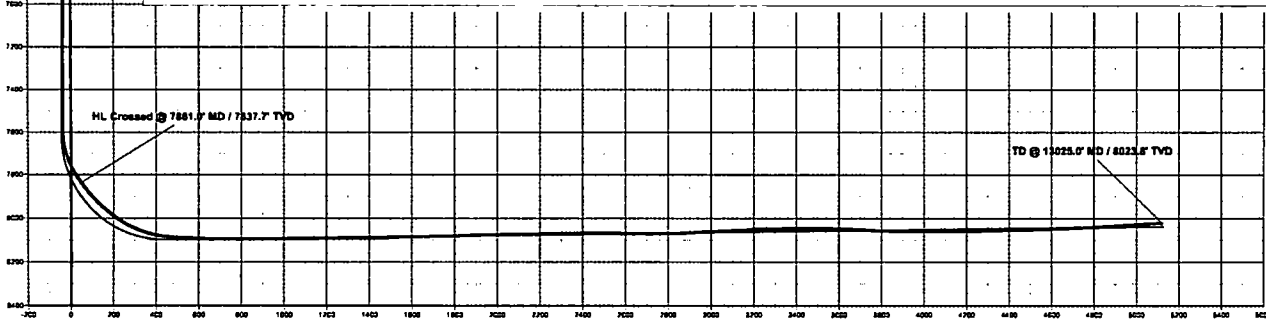
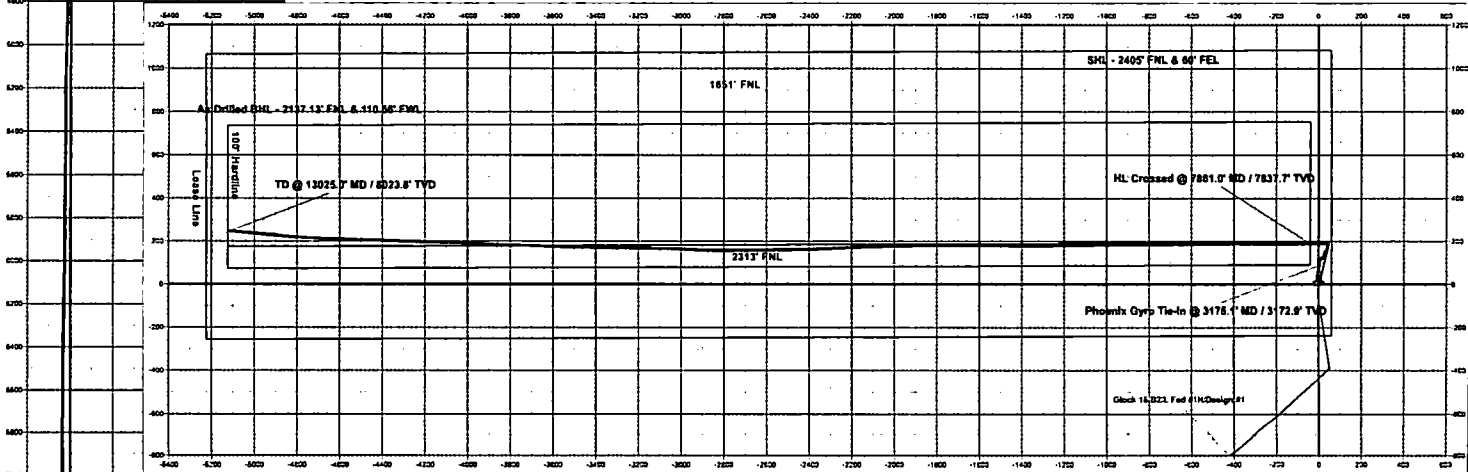
Correction: 6.96°
 Magnetic Field

Strength: 47983.4snT
 Dip Angle: 60.29°
 Date: 7/11/2018
 Model: IGRF2015



WELL DETAILS: Glock 16 B2HE Fed #1H					
				3290.0	
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	872700.96	821943.49	32° 34' 26.888 N	104° 4' 17.953 W

ANNOTATIONS							
MD	Inc	Asl	TVD	+N-S	+E-W	VsectDeparture	Annotation
3175.1	2.32	5.34	3172.9	87.2	2.4	0.0	Phoenix Gyro Tie-In @ 3175.1' MD / 3172.9' TVD
7861.0	33.96	268.82	7837.7	190.3	-40.3	46.8	HL Crossed @ 7861.0' MD / 7837.7' TVD
13025.0	83.30	278.60	8023.8	248.2	-5114.6	5120.1	TD @ 13025.0' MD / 8023.8' TVD



Vertical Section at 271.86' (200 usti/in)