



Mewbourne Oil Company

Eddy County, New Mexico

Sec 7, T24S, R28E

Boston 7 W2MP FEE 1H

30-015-43155

Wellbore #1

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 16 2017

Design: Wellbore #1

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QES Survey Report

23 February, 2017

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w/ Signature*



Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Sec 7, T24S, R28E
Well: Boston 7 W2MP FEE 1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Boston 7 W2MP FEE 1H
TVD Reference: WELL @ 3114.0usft (Patterson #243)
MD Reference: WELL @ 3114.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5002

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Sec 7, T24S, R28E

Site Position: **Northing:** 445,917.70 usft **Latitude:** 32° 13' 32.838 N
From: Map **Easting:** 561,513.20 usft **Longitude:** 104° 8' 3.881 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.11 °

Well Boston 7 W2MP FEE 1H

Well Position **+N/-S** 0.0 usft **Northing:** 445,917.70 usft **Latitude:** 32° 13' 32.838 N
+E/-W 0.0 usft **Easting:** 561,513.20 usft **Longitude:** 104° 8' 3.881 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 0.0 usft **Ground Level:** 3,089.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/1/2017	7.25	59.98	47,919

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	89.66

Survey Program Date 2/23/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,120.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
9,287.0	14,525.0	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	0.12	26.54	100.0	0.1	0.0	0.0	0.12	0.12	0.00
200.0	0.16	82.53	200.0	0.2	0.2	0.2	0.14	0.04	55.99
300.0	0.15	69.23	300.0	0.3	0.5	0.5	0.04	-0.01	-13.30
400.0	0.50	253.26	400.0	0.2	0.2	0.2	0.65	0.35	-175.97
500.0	1.71	275.97	500.0	0.2	-1.7	-1.7	1.26	1.21	22.71
600.0	1.98	276.53	599.9	0.6	-4.9	-4.9	0.27	0.27	0.56
700.0	2.14	270.99	699.9	0.8	-8.5	-8.5	0.26	0.16	-5.54
800.0	2.41	280.83	799.8	1.2	-12.4	-12.4	0.47	0.27	9.84
900.0	2.70	282.88	899.7	2.1	-16.8	-16.8	0.30	0.29	2.05

Survey Report



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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)
1,000.0	2.35	280.87	999.6	3.1	-21.1	-21.1	0.36	-0.35	-2.01
1,100.0	2.59	283.14	1,099.5	4.0	-25.3	-25.3	0.26	0.24	2.27
1,200.0	2.57	281.08	1,199.4	4.9	-29.7	-29.7	0.09	-0.02	-2.06
1,300.0	2.50	292.86	1,299.3	6.2	-33.9	-33.9	0.52	-0.07	11.78
1,400.0	2.40	280.85	1,399.2	7.4	-38.0	-37.9	0.52	-0.10	-12.01
1,500.0	2.41	282.32	1,499.1	8.3	-42.1	-42.0	0.06	0.01	1.47
1,600.0	1.93	291.09	1,599.0	9.3	-45.7	-45.7	0.58	-0.48	8.77
1,700.0	0.90	305.52	1,699.0	10.4	-47.9	-47.9	1.08	-1.03	14.43
1,800.0	0.72	351.46	1,799.0	11.5	-48.7	-48.6	0.65	-0.18	45.94
1,900.0	0.53	85.49	1,899.0	12.1	-48.3	-48.2	0.92	-0.19	94.03
2,000.0	1.80	74.40	1,999.0	12.6	-46.3	-46.2	1.28	1.27	-11.09
2,100.0	2.76	84.31	2,098.9	13.2	-42.4	-42.3	1.03	0.96	9.91
2,200.0	3.35	86.41	2,198.8	13.7	-37.1	-37.0	0.60	0.59	2.10
2,300.0	3.41	87.89	2,298.6	14.0	-31.2	-31.1	0.11	0.06	1.48
2,400.0	2.67	94.53	2,398.4	13.9	-25.9	-25.8	0.82	-0.74	6.64
2,500.0	2.21	95.38	2,498.3	13.5	-21.7	-21.6	0.46	-0.46	0.85
2,600.0	2.07	102.79	2,598.3	12.9	-18.0	-17.9	0.31	-0.14	7.41
2,700.0	1.90	106.82	2,698.2	12.1	-14.6	-14.6	0.22	-0.17	4.03
2,800.0	1.80	99.57	2,798.2	11.3	-11.5	-11.4	0.25	-0.10	-7.25
2,900.0	1.54	102.21	2,898.1	10.8	-8.6	-8.6	0.27	-0.26	2.64
3,000.0	1.46	96.10	2,998.1	10.3	-6.1	-6.0	0.18	-0.08	-6.11
3,100.0	1.57	105.88	3,098.1	9.8	-3.5	-3.4	0.28	0.11	9.78
3,200.0	1.66	116.53	3,198.0	8.8	-0.9	-0.8	0.31	0.09	10.65
3,300.0	1.65	110.60	3,298.0	7.7	1.8	1.8	0.17	-0.01	-5.93
3,400.0	1.26	122.29	3,397.9	6.6	4.1	4.1	0.49	-0.39	11.69
3,500.0	1.32	125.90	3,497.9	5.3	5.9	5.9	0.10	0.06	3.61
3,600.0	0.99	130.42	3,597.9	4.1	7.5	7.5	0.34	-0.33	4.52
3,700.0	0.84	167.09	3,697.9	2.8	8.3	8.3	0.59	-0.15	36.67
3,800.0	0.57	197.38	3,797.9	1.6	8.3	8.4	0.45	-0.27	30.29
3,900.0	0.73	195.88	3,897.9	0.5	8.0	8.0	0.16	0.16	-1.50
4,000.0	1.13	188.15	3,997.9	-1.1	7.7	7.7	0.42	0.40	-7.73
4,100.0	0.82	194.47	4,097.8	-2.7	7.4	7.4	0.33	-0.31	6.32
4,200.0	0.59	182.81	4,197.8	-3.9	7.2	7.2	0.27	-0.23	-11.66
4,300.0	0.69	216.84	4,297.8	-4.9	6.8	6.8	0.39	0.10	34.03
4,400.0	0.88	214.37	4,397.8	-6.1	6.0	6.0	0.19	0.19	-2.47
4,500.0	0.77	196.56	4,497.8	-7.3	5.4	5.3	0.28	-0.11	-17.81
4,600.0	0.74	216.95	4,597.8	-8.5	4.8	4.7	0.27	-0.03	20.39
4,700.0	0.50	258.78	4,697.8	-9.1	4.0	3.9	0.50	-0.24	41.83
4,800.0	0.74	239.22	4,797.8	-9.5	3.0	2.9	0.32	0.24	-19.56
4,900.0	0.48	264.88	4,897.8	-9.9	2.0	2.0	0.37	-0.26	25.66
5,000.0	0.53	259.43	4,997.8	-10.0	1.2	1.1	0.07	0.05	-5.45
5,100.0	0.81	255.37	5,097.8	-10.3	0.0	0.0	0.28	0.28	-4.06
5,200.0	0.86	256.74	5,197.8	-10.6	-1.4	-1.5	0.05	0.05	1.37

Survey Report



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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)
5,300.0	0.79	274.63	5,297.8	-10.7	-2.8	-2.9	0.27	-0.07	17.89
5,400.0	0.96	249.11	5,397.7	-11.0	-4.3	-4.4	0.42	0.17	-25.52
5,500.0	0.78	257.96	5,497.7	-11.4	-5.7	-5.8	0.22	-0.18	8.85
5,600.0	0.72	238.52	5,597.7	-11.9	-6.9	-7.0	0.26	-0.06	-19.44
5,700.0	0.76	234.38	5,697.7	-12.6	-8.0	-8.1	0.07	0.04	-4.14
5,800.0	0.68	231.19	5,797.7	-13.4	-9.0	-9.1	0.09	-0.08	-3.19
5,900.0	0.92	243.00	5,897.7	-14.1	-10.2	-10.3	0.29	0.24	11.81
6,000.0	2.78	261.33	5,997.6	-14.8	-13.3	-13.4	1.93	1.86	18.33
6,100.0	1.97	274.10	6,097.6	-15.1	-17.4	-17.5	0.96	-0.81	12.77
6,200.0	2.39	294.68	6,197.5	-14.1	-21.0	-21.1	0.88	0.42	20.58
6,300.0	3.58	321.74	6,297.3	-10.8	-24.9	-24.9	1.81	1.19	27.06
6,400.0	2.87	321.55	6,397.2	-6.3	-28.3	-28.4	0.71	-0.71	-0.19
6,500.0	1.90	315.13	6,497.1	-3.2	-31.1	-31.1	1.00	-0.97	-6.42
6,600.0	1.37	312.66	6,597.1	-1.2	-33.1	-33.1	0.53	-0.53	-2.47
6,700.0	0.82	346.42	6,697.0	0.3	-34.2	-34.2	0.83	-0.55	33.76
6,800.0	2.18	334.26	6,797.0	2.7	-35.2	-35.1	1.39	1.36	-12.16
6,900.0	3.19	320.70	6,896.9	6.6	-37.7	-37.7	1.19	1.01	-13.56
7,000.0	2.56	315.60	6,996.8	10.3	-41.1	-41.0	0.68	-0.63	-5.10
7,100.0	1.78	306.36	7,096.7	12.8	-43.9	-43.8	0.85	-0.78	-9.24
7,200.0	1.22	288.98	7,196.7	14.1	-46.1	-46.1	0.72	-0.56	-17.38
7,300.0	1.85	202.30	7,296.6	12.9	-47.8	-47.7	2.16	0.63	-86.68
7,400.0	1.23	201.97	7,396.6	10.5	-48.8	-48.7	0.62	-0.62	-0.33
7,500.0	1.80	183.38	7,496.6	7.9	-49.3	-49.2	0.75	0.57	-18.59
7,600.0	2.84	191.02	7,596.5	3.9	-49.8	-49.8	1.08	1.04	7.64
7,700.0	2.46	192.84	7,696.4	-0.6	-50.8	-50.8	0.39	-0.38	1.82
7,800.0	2.27	197.12	7,796.3	-4.6	-51.8	-51.9	0.26	-0.19	4.28
7,900.0	1.80	192.00	7,896.2	-8.0	-52.8	-52.8	0.50	-0.47	-5.12
8,000.0	1.30	215.16	7,996.2	-10.5	-53.7	-53.8	0.79	-0.50	23.16
8,100.0	1.35	223.42	8,096.2	-12.3	-55.2	-55.3	0.20	0.05	8.26
8,200.0	1.27	210.30	8,196.1	-14.1	-56.6	-56.7	0.31	-0.08	-13.12
8,300.0	0.71	189.46	8,296.1	-15.7	-57.2	-57.3	0.66	-0.56	-20.84
8,400.0	1.64	197.73	8,396.1	-17.6	-57.8	-57.9	0.94	0.93	8.27
8,500.0	2.18	173.78	8,496.0	-20.9	-58.0	-58.1	0.95	0.54	-23.95
8,600.0	2.25	165.98	8,596.0	-24.7	-57.3	-57.5	0.31	0.07	-7.80
8,700.0	1.82	197.77	8,695.9	-28.1	-57.3	-57.5	1.19	-0.43	31.79
8,800.0	1.09	182.21	8,795.9	-30.6	-57.8	-58.0	0.82	-0.73	-15.56
8,900.0	1.03	198.20	8,895.9	-32.4	-58.2	-58.4	0.30	-0.06	15.99
9,000.0	0.83	193.23	8,995.9	-33.9	-58.6	-58.8	0.22	-0.20	-4.97
9,100.0	1.24	183.59	9,095.8	-35.7	-58.8	-59.1	0.44	0.41	-9.64
Gyro Tie In @ 9120' MD / 9116' TVD									
9,120.0	1.12	169.16	9,115.8	-36.1	-58.8	-59.0	1.60	-0.60	-72.15
9,287.0	1.20	185.40	9,282.8	-39.5	-58.7	-58.9	0.20	0.05	9.72
9,340.0	0.60	155.20	9,335.8	-40.3	-58.6	-58.9	1.41	-1.13	-56.98

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9,371.0	3.10	78.90	9,366.8	-40.3	-57.7	-58.0	9.72	8.06	-246.13
9,402.0	6.70	76.10	9,397.7	-39.7	-55.1	-55.4	11.64	11.61	-9.03
9,433.0	10.40	76.40	9,428.3	-38.6	-50.7	-50.9	11.94	11.94	0.97
9,465.0	13.90	75.70	9,459.6	-36.9	-44.1	-44.4	10.95	10.94	-2.19
9,496.0	18.70	77.50	9,489.3	-34.9	-35.7	-35.9	15.57	15.48	5.81
9,527.0	23.20	79.90	9,518.3	-32.8	-24.8	-25.0	14.77	14.52	7.74
9,558.0	27.40	81.70	9,546.3	-30.7	-11.7	-11.9	13.77	13.55	5.81
9,589.0	32.10	83.40	9,573.2	-28.7	3.5	3.4	15.40	15.16	5.48
9,621.0	34.10	85.60	9,600.0	-27.1	20.9	20.8	7.29	6.25	6.88
9,652.0	34.90	85.60	9,625.6	-25.7	38.4	38.3	2.58	2.58	0.00
9,683.0	36.50	86.30	9,650.7	-24.4	56.5	56.3	5.33	5.16	2.26
9,714.0	39.30	85.90	9,675.2	-23.1	75.5	75.3	9.07	9.03	-1.29
9,745.0	42.40	85.60	9,698.6	-21.6	95.7	95.6	10.02	10.00	-0.97
9,777.0	47.60	84.50	9,721.3	-19.7	118.2	118.1	16.43	16.25	-3.44
9,808.0	52.40	83.80	9,741.2	-17.2	141.8	141.7	15.58	15.48	-2.26
Crossed Hard Line @ 9813' MD / 9744' TVD									
9,813.2	52.79	83.68	9,744.3	-16.8	145.9	145.8	7.64	7.41	-2.31
9,839.0	54.70	83.10	9,759.6	-14.4	166.6	166.5	7.64	7.42	-2.25
9,870.0	57.10	83.10	9,777.0	-11.3	192.1	192.0	7.74	7.74	0.00
9,901.0	58.90	83.10	9,793.4	-8.2	218.2	218.1	5.81	5.81	0.00
9,932.0	60.40	82.70	9,809.1	-4.9	244.7	244.7	4.97	4.84	-1.29
9,964.0	61.90	82.40	9,824.5	-1.2	272.5	272.5	4.76	4.69	-0.94
9,995.0	63.60	82.70	9,838.7	2.4	299.8	299.9	5.55	5.48	0.97
10,026.0	65.40	83.10	9,852.0	5.8	327.6	327.6	5.92	5.81	1.29
10,057.0	67.40	84.10	9,864.5	9.0	355.8	355.9	7.10	6.45	3.23
10,089.0	68.50	84.50	9,876.5	11.9	385.4	385.4	3.63	3.44	1.25
10,120.0	70.00	84.80	9,887.4	14.6	414.2	414.3	4.92	4.84	0.97
10,145.0	71.90	84.80	9,895.6	16.8	437.7	437.8	7.60	7.60	0.00
10,225.0	74.10	88.40	9,919.0	21.3	514.1	514.2	5.11	2.75	4.50
10,256.0	74.00	87.50	9,927.5	22.4	543.9	544.0	2.81	-0.32	-2.90
10,288.0	73.40	87.80	9,936.5	23.6	574.6	574.7	2.08	-1.88	0.94
10,319.0	75.60	86.60	9,944.8	25.1	604.4	604.5	8.02	7.10	-3.87
10,350.0	77.60	86.30	9,952.0	26.9	634.5	634.7	6.52	6.45	-0.97
10,381.0	80.70	86.10	9,957.8	29.0	664.9	665.0	10.02	10.00	-0.65
10,413.0	83.40	86.10	9,962.2	31.1	696.5	696.7	8.44	8.44	0.00
10,444.0	83.30	86.30	9,965.8	33.2	727.2	727.4	0.72	-0.32	0.65
10,475.0	83.20	86.10	9,969.5	35.2	757.9	758.1	0.72	-0.32	-0.65
10,506.0	84.30	86.10	9,972.8	37.3	788.7	788.9	3.55	3.55	0.00
10,537.0	85.80	86.30	9,975.5	39.3	819.5	819.7	4.88	4.84	0.65
10,569.0	86.20	86.40	9,977.7	41.4	851.4	851.6	1.29	1.25	0.31
10,600.0	87.40	86.40	9,979.5	43.3	882.2	882.5	3.87	3.87	0.00
10,631.0	88.00	86.40	9,980.7	45.3	913.2	913.4	1.94	1.94	0.00
10,662.0	87.80	86.30	9,981.9	47.2	944.1	944.3	0.72	-0.65	-0.32
10,756.0	87.80	87.30	9,985.5	52.5	1,037.9	1,038.1	1.06	0.00	1.06

Survey Report

QES

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Sec 7, T24S, R28E
Well: Boston 7 W2MP FEE 1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Boston 7 W2MP FEE 1H
TVD Reference: WELL @ 3114.0usft (Patterson #243)
MD Reference: WELL @ 3114.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5002

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)
10,850.0	87.50	87.70	9,989.3	56.6	1,131.7	1,132.0	0.53	-0.32	0.43
10,943.0	87.00	87.30	9,993.8	60.6	1,224.5	1,224.8	0.69	-0.54	-0.43
11,037.0	86.00	87.70	9,999.5	64.7	1,318.2	1,318.6	1.15	-1.06	0.43
11,130.0	87.30	89.40	10,005.0	67.1	1,411.0	1,411.4	2.30	1.40	1.83
11,224.0	86.50	89.60	10,010.0	67.9	1,504.9	1,505.3	0.88	-0.85	0.21
11,317.0	88.80	89.90	10,013.9	68.3	1,597.8	1,598.2	2.49	2.47	0.32
11,411.0	89.40	90.10	10,015.3	68.3	1,691.8	1,692.2	0.67	0.64	0.21
11,504.0	91.10	89.60	10,014.9	68.5	1,784.8	1,785.2	1.91	1.83	-0.54
11,599.0	86.10	88.70	10,017.2	69.9	1,879.7	1,880.1	5.35	-5.26	-0.95
11,692.0	89.40	90.80	10,020.9	70.3	1,972.6	1,973.0	4.20	3.55	2.26
11,786.0	86.30	91.00	10,024.4	68.9	2,066.5	2,066.9	3.30	-3.30	0.21
11,880.0	86.60	91.20	10,030.2	67.1	2,160.3	2,160.7	0.38	0.32	0.21
11,971.0	87.10	91.20	10,035.2	65.2	2,251.2	2,251.5	0.55	0.55	0.00
12,065.0	85.90	91.50	10,041.0	63.0	2,345.0	2,345.3	1.32	-1.28	0.32
12,159.0	88.60	91.50	10,045.5	60.5	2,438.8	2,439.1	2.87	2.87	0.00
12,252.0	88.50	91.20	10,047.8	58.3	2,531.8	2,532.1	0.34	-0.11	-0.32
12,346.0	87.70	91.30	10,051.0	56.3	2,625.7	2,626.0	0.86	-0.85	0.11
12,440.0	89.50	91.20	10,053.3	54.2	2,719.6	2,719.9	1.92	1.91	-0.11
12,533.0	87.80	90.30	10,055.4	53.0	2,812.6	2,812.9	2.07	-1.83	-0.97
12,627.0	87.30	89.90	10,059.5	52.8	2,906.5	2,906.8	0.68	-0.53	-0.43
12,720.0	87.70	88.70	10,063.5	54.0	2,999.4	2,999.7	1.36	0.43	-1.29
12,815.0	87.90	88.40	10,067.2	56.4	3,094.3	3,094.6	0.38	0.21	-0.32
12,909.0	88.80	88.70	10,069.9	58.7	3,188.3	3,188.5	1.01	0.96	0.32
13,002.0	88.30	88.70	10,072.2	60.9	3,281.2	3,281.5	0.54	-0.54	0.00
13,096.0	87.10	88.90	10,076.0	62.8	3,375.1	3,375.4	1.29	-1.28	0.21
13,190.0	87.70	89.10	10,080.3	64.5	3,469.0	3,469.3	0.67	0.64	0.21
13,283.0	87.70	89.60	10,084.0	65.5	3,561.9	3,562.2	0.54	0.00	0.54
13,377.0	87.10	90.70	10,088.3	65.3	3,655.8	3,656.1	1.33	-0.64	1.17
13,471.0	90.90	89.60	10,089.9	65.0	3,749.8	3,750.1	4.21	4.04	-1.17
13,564.0	92.40	89.20	10,087.2	66.0	3,842.7	3,843.1	1.67	1.61	-0.43
13,658.0	92.30	89.20	10,083.4	67.3	3,936.6	3,937.0	0.11	-0.11	0.00
13,752.0	90.70	89.20	10,080.9	68.6	4,030.6	4,030.9	1.70	-1.70	0.00
13,846.0	87.30	85.40	10,082.5	73.0	4,124.4	4,124.8	5.42	-3.62	-4.04
13,938.0	86.80	84.70	10,087.3	81.0	4,216.0	4,216.4	0.93	-0.54	-0.76
14,031.0	89.70	85.20	10,090.1	89.1	4,308.6	4,309.0	3.16	3.12	0.54
14,126.0	87.30	83.10	10,092.6	98.8	4,403.0	4,403.5	3.36	-2.53	-2.21
14,220.0	91.10	84.00	10,093.9	109.4	4,496.4	4,497.0	4.15	4.04	0.96
14,314.0	92.90	83.80	10,090.6	119.4	4,589.8	4,590.4	1.93	1.91	-0.21
14,408.0	91.90	83.10	10,086.7	130.1	4,683.1	4,683.8	1.30	-1.06	-0.74
14,455.0	92.00	83.10	10,085.1	135.7	4,729.7	4,730.5	0.21	0.21	0.00
TD @ 14525' MD / 10083' TVD									
14,525.0	92.00	83.10	10,082.7	144.1	4,799.2	4,800.0	0.00	0.00	0.00



Survey Report



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Design: Wellbore #1

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TVD Reference: WELL @ 3114.0usft (Patterson #243)
MD Reference: WELL @ 3114.0usft (Patterson #243)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5002

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,120.0	9,115.8	-36.1	-58.8	Gyro Tie In @ 9120' MD / 9116' TVD
9,813.2	9,744.3	-16.8	145.9	Crossed Hard Line @ 9813' MD / 9744' TVD
14,525.0	10,082.7	144.1	4,799.2	TD @ 14525' MD / 10083' TVD

Checked By: _____ Approved By: _____ Date: _____