



Mewbourne Oil Company

Eddy County, New Mexico

Section 34-27-23S-28E Speedwagon 27 W2PA Fee 1H

Speedwagon 27 W2PA Fee 1H

Original Hole

30-015-43097

Design: Original Hole

Standard Survey Report

05 September, 2017





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 34-27-23S-28E Speedwagon 27 W2PA Fee 1H
Well: Speedwagon 27 W2PA Fee 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Speedwagon 27 W2PA Fee 1H
TVD Reference: 3037 +27 @ 3064.0usft (Patterson 245)
MD Reference: 3037 +27 @ 3064.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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 Section 34-27-23S-28E Speedwagon 27 W2PA Fee 1H

Site Position: **Northing:** 461,329.70 usft **Latitude:** 32° 16' 4.918 N
From: Map **Easting:** 582,132.40 usft **Longitude:** 104° 4' 3.396 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.14 °

Well Speedwagon 27 W2PA Fee 1H

Well Position **+N/-S** 0.0 usft **Northing:** 461,329.70 usft **Latitude:** 32° 16' 4.918 N
+E/-W 0.0 usft **Easting:** 582,132.40 usft **Longitude:** 104° 4' 3.396 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 3,064.0 usft **Ground Level:** 3,037.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/26/2017	7.18	60.02	47,911.36127758

Design Original Hole

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	166.98

Survey Program Date 9/5/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	494.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
610.0	15,675.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

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	0.86	152.92	100.0	-0.7	0.3	0.7	0.86	0.86	0.00
200.0	1.28	135.10	200.0	-2.1	1.5	2.4	0.53	0.42	-17.82
300.0	1.23	142.71	300.0	-3.8	2.9	4.3	0.17	-0.05	7.61
400.0	1.75	139.99	399.9	-5.8	4.5	6.7	0.52	0.52	-2.72
494.0	1.65	131.98	493.9	-7.8	6.5	9.1	0.27	-0.11	-8.52
Phoenix Gyro Survey									
610.0	1.80	140.30	609.8	-10.3	8.9	12.1	0.25	0.13	7.17
672.0	0.20	184.80	671.8	-11.2	9.5	13.0	2.68	-2.58	71.77

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Speedwagon 27 W2PA Fee 1H
Project:	Eddy County, New Mexico	TVD Reference:	3037 +27 @ 3064.0usft (Patterson 245)
Site:	Section 34-27-23S-28E Speedwagon 27 W2PA Fee 1H	MD Reference:	3037 +27 @ 3064.0usft (Patterson 245)
Well:	Speedwagon 27 W2PA Fee 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
734.0	1.40	332.90	733.8	-10.6	9.1	12.4	2.54	1.94	238.87
800.0	2.20	327.80	799.8	-8.8	8.1	10.4	1.23	1.21	-7.73
863.0	0.60	309.80	862.8	-7.6	7.2	9.0	2.60	-2.54	-28.57
927.0	0.60	197.10	926.8	-7.7	6.8	9.0	1.56	0.00	-176.09
990.0	0.80	242.10	989.8	-8.2	6.4	9.4	0.90	0.32	71.43
1,054.0	1.20	216.60	1,053.7	-9.0	5.6	10.0	0.92	0.63	-39.84
1,117.0	1.50	226.20	1,116.7	-10.1	4.6	10.8	0.59	0.48	15.24
1,181.0	0.90	261.00	1,180.7	-10.7	3.5	11.2	1.43	-0.94	54.38
1,244.0	1.00	334.40	1,243.7	-10.3	2.7	10.7	1.81	0.16	116.51
1,308.0	1.00	353.40	1,307.7	-9.2	2.4	9.6	0.52	0.00	29.69
1,371.0	0.90	327.50	1,370.7	-8.3	2.1	8.5	0.69	-0.16	-41.11
1,435.0	0.70	310.30	1,434.7	-7.6	1.5	7.8	0.48	-0.31	-26.88
1,498.0	0.30	327.80	1,497.7	-7.2	1.2	7.3	0.67	-0.63	27.78
1,562.0	0.40	324.70	1,561.7	-6.9	0.9	6.9	0.16	0.16	-4.84
1,625.0	0.70	274.70	1,624.7	-6.7	0.4	6.6	0.85	0.48	-79.37
1,688.0	1.00	293.50	1,687.7	-6.4	-0.5	6.2	0.64	0.48	29.84
1,752.0	0.40	276.60	1,751.7	-6.2	-1.2	5.8	0.98	-0.94	-26.41
1,815.0	0.60	242.40	1,814.7	-6.3	-1.7	5.8	0.56	0.32	-54.29
1,913.0	0.30	225.70	1,912.7	-6.7	-2.3	6.0	0.33	-0.31	-17.04
2,008.0	0.80	159.70	2,007.7	-7.5	-2.3	6.8	0.77	0.53	-69.47
2,104.0	1.30	158.70	2,103.6	-9.2	-1.7	8.6	0.52	0.52	-1.04
2,198.0	0.80	139.10	2,197.6	-10.7	-0.8	10.2	0.65	-0.53	-20.85
2,294.0	0.90	96.30	2,293.6	-11.2	0.3	11.0	0.65	0.10	-44.58
2,389.0	1.30	120.40	2,388.6	-11.9	2.0	12.0	0.64	0.42	25.37
2,484.0	0.30	186.20	2,483.6	-12.7	2.9	13.0	1.27	-1.05	69.26
2,499.0	0.40	141.40	2,498.6	-12.7	2.9	13.1	1.88	0.67	-298.67
2,573.0	0.50	216.70	2,572.6	-13.2	2.9	13.5	0.75	0.14	101.76
2,668.0	0.70	243.50	2,667.6	-13.8	2.1	13.9	0.36	0.21	28.21
2,763.0	0.70	249.90	2,762.6	-14.3	1.1	14.1	0.08	0.00	6.74
2,857.0	0.70	254.50	2,856.6	-14.6	0.0	14.2	0.06	0.00	4.89
2,953.0	0.90	244.10	2,952.6	-15.1	-1.3	14.4	0.26	0.21	-10.83
3,048.0	0.10	307.50	3,047.5	-15.4	-2.0	14.5	0.91	-0.84	66.74
3,143.0	0.10	14.80	3,142.5	-15.2	-2.0	14.4	0.12	0.00	70.84
3,239.0	0.20	112.00	3,238.5	-15.2	-1.9	14.4	0.24	0.10	101.25
3,334.0	0.40	98.60	3,333.5	-15.3	-1.4	14.6	0.22	0.21	-14.11
3,428.0	0.60	92.70	3,427.5	-15.4	-0.6	14.9	0.22	0.21	-6.28
3,523.0	0.40	77.50	3,522.5	-15.4	0.3	15.0	0.25	-0.21	-16.00
3,618.0	0.30	87.70	3,617.5	-15.3	0.8	15.1	0.12	-0.11	10.74
3,713.0	0.40	62.10	3,712.5	-15.1	1.4	15.0	0.19	0.11	-26.95
3,807.0	0.30	56.10	3,806.5	-14.8	1.9	14.9	0.11	-0.11	-6.38
3,902.0	0.30	35.80	3,901.5	-14.5	2.2	14.6	0.11	0.00	-21.37
3,998.0	0.10	327.00	3,997.5	-14.2	2.3	14.4	0.29	-0.21	-71.67

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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)
4,094.0	0.20	292.40	4,093.5	-14.1	2.1	14.2	0.14	0.10	-36.04
4,190.0	0.40	277.00	4,189.5	-14.0	1.6	14.0	0.22	0.21	-16.04
4,285.0	0.20	226.50	4,284.5	-14.0	1.2	13.9	0.33	-0.21	-53.16
4,381.0	0.10	222.00	4,380.5	-14.2	1.0	14.1	0.10	-0.10	-4.69
4,476.0	0.20	176.10	4,475.5	-14.4	1.0	14.3	0.16	0.11	-48.32
4,571.0	0.10	157.00	4,570.5	-14.7	1.0	14.5	0.12	-0.11	-20.11
4,665.0	0.10	203.10	4,664.5	-14.8	1.0	14.7	0.08	0.00	49.04
4,759.0	0.10	251.00	4,758.5	-14.9	0.9	14.8	0.09	0.00	50.96
4,854.0	0.10	259.70	4,853.5	-15.0	0.7	14.8	0.02	0.00	9.16
4,949.0	0.20	255.70	4,948.5	-15.0	0.5	14.8	0.11	0.11	-4.21
5,044.0	0.20	151.20	5,043.5	-15.2	0.4	14.9	0.33	0.00	-110.00
5,139.0	0.40	191.90	5,138.5	-15.7	0.4	15.4	0.30	0.21	42.84
5,234.0	0.60	213.10	5,233.5	-16.4	0.1	16.0	0.28	0.21	22.32
5,328.0	1.00	222.10	5,327.5	-17.4	-0.7	16.8	0.44	0.43	9.57
5,424.0	0.40	292.70	5,423.5	-17.9	-1.6	17.1	0.99	-0.63	73.54
5,518.0	0.20	252.70	5,517.5	-17.9	-2.1	16.9	0.30	-0.21	-42.55
5,614.0	0.40	211.70	5,613.5	-18.2	-2.4	17.2	0.29	0.21	-42.71
5,710.0	0.40	145.20	5,709.5	-18.8	-2.4	17.7	0.46	0.00	-69.27
5,805.0	0.70	166.70	5,804.5	-19.6	-2.1	18.6	0.38	0.32	22.63
5,900.0	1.00	161.20	5,899.5	-20.9	-1.7	20.0	0.33	0.32	-5.79
5,995.0	1.30	168.60	5,994.5	-22.8	-1.2	21.9	0.35	0.32	7.79
6,090.0	0.70	207.70	6,089.5	-24.4	-1.2	23.5	0.92	-0.63	41.16
6,184.0	1.10	202.20	6,183.4	-25.7	-1.8	24.6	0.43	0.43	-5.85
6,279.0	0.90	246.30	6,278.4	-26.8	-2.9	25.5	0.81	-0.21	46.42
6,374.0	1.50	321.10	6,373.4	-26.2	-4.3	24.5	1.61	0.63	78.74
6,470.0	0.80	325.60	6,469.4	-24.6	-5.5	22.8	0.73	-0.73	4.69
6,565.0	0.50	274.80	6,564.4	-24.1	-6.3	22.0	0.65	-0.32	-53.47
6,660.0	1.10	216.70	6,659.4	-24.8	-7.3	22.5	0.99	0.63	-61.16
6,755.0	1.20	224.00	6,754.4	-26.2	-8.5	23.6	0.19	0.11	7.68
6,849.0	1.60	348.30	6,848.3	-25.6	-9.4	22.8	2.64	0.43	132.23
6,944.0	3.00	346.50	6,943.3	-21.9	-10.3	19.0	1.48	1.47	-1.89
7,039.0	2.80	335.90	7,038.1	-17.4	-11.8	14.3	0.60	-0.21	-11.16
7,134.0	2.10	341.80	7,133.1	-13.6	-13.3	10.3	0.78	-0.74	6.21
7,230.0	1.70	346.00	7,229.0	-10.6	-14.2	7.1	0.44	-0.42	4.38
7,324.0	2.00	340.40	7,323.0	-7.7	-15.1	4.1	0.37	0.32	-5.96
7,419.0	1.30	295.10	7,417.9	-5.6	-16.6	1.7	1.50	-0.74	-47.68
7,514.0	1.80	219.40	7,512.9	-6.3	-18.5	2.0	2.04	0.53	-79.68
7,610.0	0.30	174.90	7,608.9	-7.7	-19.5	3.2	1.67	-1.56	-46.35
7,704.0	1.30	250.20	7,702.9	-8.4	-20.5	3.5	1.34	1.06	80.11
7,800.0	2.10	245.60	7,798.8	-9.4	-23.1	4.0	0.84	0.83	-4.79
7,895.0	1.20	291.50	7,893.8	-9.8	-25.6	3.8	1.61	-0.95	48.32
7,989.0	1.80	329.80	7,987.8	-8.2	-27.3	1.8	1.21	0.64	40.74
8,085.0	1.10	301.00	8,083.7	-6.4	-28.8	-0.3	1.03	-0.73	-30.00

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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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)
8,180.0	1.50	330.00	8,178.7	-4.8	-30.2	-2.1	0.80	0.42	30.53
8,275.0	1.60	21.90	8,273.7	-2.5	-30.3	-4.4	1.43	0.11	54.63
8,370.0	1.50	12.40	8,368.6	-0.1	-29.6	-6.6	0.29	-0.11	-10.00
8,465.0	1.80	332.30	8,463.6	2.4	-30.0	-9.1	1.23	0.32	-42.21
8,560.0	1.80	37.50	8,558.6	5.0	-29.8	-11.5	2.04	0.00	68.63
8,655.0	0.90	46.60	8,653.5	6.6	-28.3	-12.9	0.97	-0.95	9.58
8,750.0	0.70	324.80	8,748.5	7.6	-28.1	-13.8	1.11	-0.21	-86.11
8,846.0	1.50	344.20	8,844.5	9.3	-28.8	-15.6	0.91	0.83	20.21
8,940.0	1.60	19.50	8,938.5	11.7	-28.7	-17.9	1.00	0.11	37.55
9,034.0	1.60	22.40	9,032.4	14.2	-27.8	-20.1	0.09	0.00	3.09
9,129.0	3.10	66.90	9,127.4	16.4	-24.9	-21.6	2.38	1.58	46.84
9,225.0	4.10	94.60	9,223.2	17.2	-19.1	-21.0	2.06	1.04	28.85
9,320.0	2.50	115.10	9,318.0	16.0	-13.8	-18.7	2.07	-1.68	21.58
9,415.0	1.50	161.80	9,413.0	14.0	-11.6	-16.2	1.93	-1.05	49.16
9,511.0	1.60	181.10	9,508.9	11.4	-11.2	-13.7	0.55	0.10	20.10
9,606.0	1.20	173.90	9,603.9	9.1	-11.1	-11.4	0.46	-0.42	-7.58
9,701.0	0.70	172.60	9,698.9	7.5	-10.9	-9.8	0.53	-0.53	-1.37
9,797.0	0.20	114.90	9,794.9	6.9	-10.7	-9.1	0.64	-0.52	-60.10
9,892.0	0.40	309.60	9,889.9	7.0	-10.8	-9.3	0.63	0.21	-174.00
9,956.0	0.70	328.80	9,953.9	7.5	-11.2	-9.8	0.54	0.47	30.00
9,987.0	0.30	285.80	9,984.9	7.7	-11.4	-10.1	1.68	-1.29	-138.71
10,019.0	0.70	19.30	10,016.9	7.9	-11.4	-10.3	2.43	1.25	292.19
10,051.0	3.40	1.90	10,048.9	9.0	-11.3	-11.3	8.56	8.44	-54.38
10,083.0	5.40	9.00	10,080.8	11.5	-11.0	-13.7	6.47	6.25	22.19
10,115.0	9.10	4.60	10,112.5	15.5	-10.6	-17.5	11.68	11.56	-13.75
10,146.0	11.60	3.50	10,143.0	21.0	-10.2	-22.8	8.09	8.06	-3.55
10,178.0	14.60	359.00	10,174.2	28.3	-10.1	-29.8	9.90	9.38	-14.06
10,209.0	17.00	353.90	10,204.0	36.7	-10.6	-38.1	8.94	7.74	-16.45
10,241.0	20.40	358.30	10,234.3	46.9	-11.3	-48.3	11.50	10.63	13.75
10,272.0	25.00	359.10	10,262.9	58.9	-11.5	-60.0	14.87	14.84	2.58
10,304.0	28.40	1.50	10,291.5	73.3	-11.4	-74.0	11.14	10.63	7.50
10,336.0	32.30	2.10	10,319.1	89.4	-10.9	-89.6	12.22	12.19	1.88
10,367.0	36.70	3.10	10,344.6	107.0	-10.1	-106.5	14.31	14.19	3.23
10,400.0	41.70	3.30	10,370.2	127.8	-9.0	-126.5	15.16	15.15	0.61
10,432.0	44.30	2.60	10,393.6	149.6	-7.8	-147.5	8.26	8.13	-2.19
10,463.0	46.80	1.30	10,415.3	171.7	-7.1	-168.9	8.60	8.06	-4.19
10,495.0	50.30	359.40	10,436.5	195.7	-7.0	-192.2	11.81	10.94	-5.94
10,526.0	52.20	358.80	10,455.9	219.8	-7.3	-215.8	6.31	6.13	-1.94
10,558.0	55.00	357.70	10,474.9	245.6	-8.1	-241.1	9.18	8.75	-3.44
10,590.0	58.90	358.10	10,492.3	272.4	-9.1	-267.4	12.23	12.19	1.25
10,621.0	60.90	358.70	10,507.9	299.2	-9.9	-293.7	6.67	6.45	1.94
10,653.0	63.10	359.60	10,522.9	327.4	-10.3	-321.3	7.31	6.88	2.81

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Speedwagon 27 W2PA Fee 1H
Project:	Eddy County, New Mexico	TVD Reference:	3037 +27 @ 3064.0usft (Patterson 245)
Site:	Section 34-27-23S-28E Speedwagon 27 W2PA Fee 1H	MD Reference:	3037 +27 @ 3064.0usft (Patterson 245)
Well:	Speedwagon 27 W2PA Fee 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
10,685.0	66.20	359.70	10,536.6	356.3	-10.5	-349.5	9.69	9.69	0.31
10,717.0	68.20	359.00	10,549.0	385.8	-10.8	-378.3	6.57	6.25	-2.19
10,749.0	70.50	358.00	10,560.3	415.8	-11.6	-407.7	7.76	7.19	-3.13
10,768.0	72.20	357.50	10,566.4	433.8	-12.3	-425.4	9.29	8.95	-2.63
10,788.0	75.20	357.30	10,572.0	452.9	-13.2	-444.2	15.03	15.00	-1.00
10,819.0	78.40	357.90	10,579.0	483.1	-14.4	-473.9	10.49	10.32	1.94
10,851.0	81.00	358.00	10,584.8	514.5	-15.5	-504.8	8.13	8.13	0.31
10,883.0	83.80	358.90	10,589.0	546.2	-16.4	-535.9	9.18	8.75	2.81
10,915.0	86.10	0.00	10,591.8	578.1	-16.7	-567.0	7.96	7.19	3.44
10,927.2	86.71	0.38	10,592.6	590.3	-16.7	-578.8	5.89	5.00	3.13
LP Speedwagon 27 W2PA Fee 1H									
10,947.0	87.70	1.00	10,593.5	610.1	-16.4	-598.1	5.89	5.00	3.12
11,010.0	89.80	1.20	10,594.9	673.0	-15.2	-659.2	3.35	3.33	0.32
11,106.0	90.60	2.50	10,594.6	769.0	-12.1	-751.9	1.59	0.83	1.35
11,201.0	90.30	2.70	10,593.8	863.9	-7.8	-843.4	0.38	-0.32	0.21
11,296.0	90.80	3.50	10,592.9	958.7	-2.7	-934.7	0.99	0.53	0.84
11,391.0	91.20	4.20	10,591.3	1,053.5	3.7	-1,025.6	0.85	0.42	0.74
11,486.0	86.90	1.90	10,592.8	1,148.3	8.8	-1,116.8	5.13	-4.53	-2.42
11,582.0	87.00	1.20	10,597.9	1,244.2	11.4	-1,209.6	0.74	0.10	-0.73
11,677.0	91.00	2.00	10,599.6	1,339.1	14.0	-1,301.5	4.29	4.21	0.84
11,772.0	91.30	0.60	10,597.7	1,434.0	16.2	-1,393.5	1.51	0.32	-1.47
11,867.0	88.10	357.50	10,598.2	1,529.0	14.6	-1,486.4	4.69	-3.37	-3.26
11,963.0	90.20	356.60	10,599.6	1,624.9	9.6	-1,580.9	2.38	2.19	-0.94
12,059.0	91.00	356.50	10,598.6	1,720.7	3.9	-1,675.6	0.84	0.83	-0.10
12,154.0	90.30	355.60	10,597.5	1,815.4	-2.7	-1,769.4	1.20	-0.74	-0.95
12,249.0	89.20	355.20	10,598.0	1,910.1	-10.3	-1,863.3	1.23	-1.16	-0.42
12,345.0	89.50	356.90	10,599.0	2,005.9	-16.9	-1,958.1	1.80	0.31	1.77
12,439.0	89.00	358.40	10,600.3	2,099.8	-20.8	-2,050.5	1.68	-0.53	1.60
12,534.0	89.20	359.10	10,601.8	2,194.8	-22.8	-2,143.5	0.77	0.21	0.74
12,629.0	89.90	0.90	10,602.5	2,289.8	-22.8	-2,236.0	2.03	0.74	1.89
12,728.0	91.20	1.60	10,601.6	2,388.7	-20.7	-2,332.0	1.49	1.31	0.71
12,822.0	89.20	0.50	10,601.2	2,482.7	-18.9	-2,423.1	2.43	-2.13	-1.17
12,918.0	88.80	358.30	10,602.9	2,578.7	-20.0	-2,516.9	2.33	-0.42	-2.29
13,013.0	90.40	359.50	10,603.6	2,673.7	-21.8	-2,609.8	2.11	1.68	1.26
13,108.0	89.10	358.10	10,604.0	2,768.6	-23.8	-2,702.8	2.01	-1.37	-1.47
13,203.0	90.60	359.80	10,604.2	2,863.6	-25.5	-2,795.7	2.39	1.58	1.79
13,298.0	90.30	359.00	10,603.5	2,958.6	-26.5	-2,888.5	0.90	-0.32	-0.84
13,393.0	89.70	359.40	10,603.5	3,053.6	-27.8	-2,981.3	0.76	-0.63	0.42
13,489.0	90.30	358.30	10,603.5	3,149.6	-29.8	-3,075.3	1.31	0.63	-1.15
13,584.0	90.20	359.40	10,603.1	3,244.6	-31.7	-3,168.2	1.16	-0.11	1.16
13,680.0	91.20	359.50	10,601.9	3,340.5	-32.6	-3,262.0	1.05	1.04	0.10
13,775.0	90.60	356.90	10,600.4	3,435.5	-35.6	-3,355.1	2.81	-0.63	-2.74
13,870.0	90.80	357.40	10,599.2	3,530.3	-40.3	-3,448.6	0.57	0.21	0.53

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Speedwagon 27 W2PA Fee 1H
Project:	Eddy County, New Mexico	TVD Reference:	3037 +27 @ 3064.0usft (Patterson 245)
Site:	Section 34-27-23S-28E Speedwagon 27 W2PA Fee 1H	MD Reference:	3037 +27 @ 3064.0usft (Patterson 245)
Well:	Speedwagon 27 W2PA Fee 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
13,965.0	91.00	359.60	10,597.8	3,625.3	-42.8	-3,541.7	2.33	0.21	2.32
14,060.0	90.00	357.90	10,596.9	3,720.3	-44.8	-3,634.7	2.08	-1.05	-1.79
14,155.0	90.50	359.80	10,596.5	3,815.2	-46.8	-3,727.7	2.07	0.53	2.00
14,250.0	91.60	359.70	10,594.8	3,910.2	-47.2	-3,820.3	1.16	1.16	-0.11
14,345.0	90.40	358.10	10,593.1	4,005.2	-49.0	-3,913.2	2.11	-1.26	-1.68
14,440.0	89.50	358.60	10,593.2	4,100.1	-51.7	-4,006.4	1.08	-0.95	0.53
14,533.0	90.30	359.00	10,593.4	4,193.1	-53.7	-4,097.4	0.96	0.86	0.43
14,629.0	88.80	356.60	10,594.1	4,289.0	-57.4	-4,191.7	2.95	-1.56	-2.50
14,724.0	90.50	358.20	10,594.7	4,383.9	-61.7	-4,285.1	2.46	1.79	1.68
14,819.0	90.30	358.10	10,594.0	4,478.9	-64.7	-4,378.3	0.24	-0.21	-0.11
14,914.0	89.10	359.00	10,594.5	4,573.8	-67.1	-4,471.4	1.58	-1.26	0.95
15,009.0	91.10	0.30	10,594.4	4,668.8	-67.7	-4,564.0	2.51	2.11	1.37
15,104.0	89.90	358.50	10,593.5	4,763.8	-68.7	-4,656.8	2.28	-1.26	-1.89
15,199.0	89.40	357.40	10,594.1	4,858.8	-72.1	-4,750.1	1.27	-0.53	-1.16
15,295.0	90.70	356.60	10,594.0	4,954.6	-77.1	-4,844.6	1.59	1.35	-0.83
15,390.0	89.50	358.30	10,593.9	5,049.5	-81.4	-4,938.0	2.19	-1.26	1.79
15,485.0	88.40	358.10	10,595.6	5,144.5	-84.3	-5,031.2	1.18	-1.16	-0.21
15,580.0	88.40	357.80	10,598.3	5,239.4	-87.7	-5,124.4	0.32	0.00	-0.32
15,627.0	88.30	358.00	10,599.6	5,286.3	-89.5	-5,170.5	0.48	-0.21	0.43
15,675.0	88.30	358.00	10,601.0	5,334.3	-91.1	-5,217.6	0.00	0.00	0.00

15675' MD Projected to Bit - PBHL Speedwagon 27 W2PA Fee 1H
Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
494.0	493.9	-7.8	6.5	Phoenix Gyro Survey
15,675.0	10,601.0	5,334.3	-91.1	15675' MD Projected to Bit



October 2, 2017

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Speedwagon 27 W2PA Fee #001H
Culebra Bluff; Wolfcamp
Eddy County, New Mexico
API# 30-015-43097

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Jimmy Walker	Original Hole	610ft. to 15,627ft.	08-12-17 to 09-05-17	MWD Survey

A certified plat on which the bottom-hole location is oriented to both 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.


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Speedwagon 27 W2PA Fee #1H\171055

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



COMPANY: Mewbourne Oil Company
 WELL: Speedwagon 27 W2PA Fee 1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson Patterson 245



Grid Correction MWD: To convert a Magnetic Direction to a Grid Direction, Add 7.04°

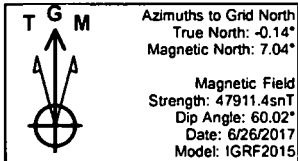
OFFICE: 936.582.7296

GEODEIC ZONE: New Mexico East 3001
 3037 +27 @ 3064.0usft (Patterson 245)
 GROUND ELEVATION: 3037.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	461329.70	582132.40	32° 16' 4.918 N	104° 4' 3.396 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10028.0	0.00	0.00	10028.0	0.0	0.0	0.00	0.00	0.0	
3	10929.4	90.13	359.26	10601.0	574.2	-7.4	10.00	359.26	574.3	
4	15693.9	90.13	359.26	10590.0	5338.4	-69.0	0.00	0.00	5338.8	PBHL Speedwagon 27 W2PA Fee 1H



SHL 260' FNL; 480' FEL
 Section 34-23S-28E
 PBHL 330' FNL; 330' FEL
 Section 27-23S-28E

