



October 2, 2017

Survey Certification Report

STATE OF TEXAS

30-015-43097

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of August 12, 2017, through September 05, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 610 feet to a depth of 15,627 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Speedwagon 27 W2PA Fee #001H well, API # 30-015-43097 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 34-27-23S-28E Speedwagon 27 W2PA F
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
From:	Map	Easting:	582,132.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 4.918 N
		Longitude:	104° 4' 3.396 W
		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)
	IGRF 2015	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	



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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

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
494.0	1.65	131.98	493.9	-7.8	6.5	10.1	140.32	Tie-In
610.0	1.80	140.30	609.8	-10.3	8.9	13.6	139.30	
672.0	0.20	184.80	671.8	-11.2	9.5	14.7	139.67	
734.0	1.40	332.90	733.8	-10.6	9.1	14.0	139.27	
800.0	2.20	327.80	799.8	-8.8	8.1	12.0	137.46	
863.0	0.60	309.80	862.8	-7.6	7.2	10.5	136.51	
927.0	0.60	197.10	926.8	-7.7	6.8	10.3	138.36	
990.0	0.80	242.10	989.8	-8.2	6.4	10.4	142.27	
1,054.0	1.20	216.60	1,053.7	-9.0	5.6	10.5	148.18	
1,117.0	1.50	226.20	1,116.7	-10.1	4.6	11.0	155.57	
1,181.0	0.90	261.00	1,180.7	-10.7	3.5	11.3	162.06	
1,244.0	1.00	334.40	1,243.7	-10.3	2.7	10.7	165.09	
1,308.0	1.00	353.40	1,307.7	-9.2	2.4	9.6	165.22	
1,371.0	0.90	327.50	1,370.7	-8.3	2.1	8.5	165.71	
1,435.0	0.70	310.30	1,434.7	-7.6	1.5	7.8	168.54	
1,498.0	0.30	327.80	1,497.7	-7.2	1.2	7.3	170.87	
1,562.0	0.40	324.70	1,561.7	-6.9	0.9	7.0	172.23	
1,625.0	0.70	274.70	1,624.7	-6.7	0.4	6.7	176.32	
1,688.0	1.00	293.50	1,687.7	-6.4	-0.5	6.4	184.07	
1,752.0	0.40	276.60	1,751.7	-6.2	-1.2	6.3	190.92	
1,815.0	0.60	242.40	1,814.7	-6.3	-1.7	6.5	195.11	



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1,913.0	0.30	225.70	1,912.7	-6.7	-2.3	7.1	199.20
2,008.0	0.80	159.70	2,007.7	-7.5	-2.3	7.9	196.93
2,104.0	1.30	158.70	2,103.6	-9.2	-1.7	9.3	190.27
2,198.0	0.80	139.10	2,197.6	-10.7	-0.8	10.7	184.53
2,294.0	0.90	96.30	2,293.6	-11.2	0.3	11.2	178.24
2,389.0	1.30	120.40	2,388.6	-11.9	2.0	12.0	170.36
2,484.0	0.30	186.20	2,483.6	-12.7	2.9	13.0	167.02
2,499.0	0.40	141.40	2,498.6	-12.7	2.9	13.1	166.98
2,573.0	0.50	216.70	2,572.6	-13.2	2.9	13.5	167.55
2,668.0	0.70	243.50	2,667.6	-13.8	2.1	14.0	171.15
2,763.0	0.70	249.90	2,762.6	-14.3	1.1	14.3	175.65
2,857.0	0.70	254.50	2,856.6	-14.6	0.0	14.6	180.04
2,953.0	0.90	244.10	2,952.6	-15.1	-1.3	15.1	184.75
3,048.0	0.10	307.50	3,047.5	-15.4	-2.0	15.5	187.38
3,143.0	0.10	14.80	3,142.5	-15.2	-2.0	15.4	187.61
3,239.0	0.20	112.00	3,238.5	-15.2	-1.9	15.3	186.96
3,334.0	0.40	98.60	3,333.5	-15.3	-1.4	15.4	185.13
3,428.0	0.60	92.70	3,427.5	-15.4	-0.6	15.4	182.08
3,523.0	0.40	77.50	3,522.5	-15.4	0.3	15.4	179.03
3,618.0	0.30	87.70	3,617.5	-15.3	0.8	15.3	176.88
3,713.0	0.40	62.10	3,712.5	-15.1	1.4	15.2	174.80
3,807.0	0.30	56.10	3,806.5	-14.8	1.9	14.9	172.81
3,902.0	0.30	35.80	3,901.5	-14.5	2.2	14.6	171.27
3,998.0	0.10	327.00	3,997.5	-14.2	2.3	14.4	170.71
4,094.0	0.20	292.40	4,093.5	-14.1	2.1	14.2	171.42
4,190.0	0.40	277.00	4,189.5	-14.0	1.6	14.1	173.32
4,285.0	0.20	226.50	4,284.5	-14.0	1.2	14.1	175.17



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4,381.0	0.10	222.00	4,380.5	-14.2	1.0	14.2	175.94
4,476.0	0.20	176.10	4,475.5	-14.4	1.0	14.5	176.18
4,571.0	0.10	157.00	4,570.5	-14.7	1.0	14.7	176.08
4,665.0	0.10	203.10	4,664.5	-14.8	1.0	14.9	176.12
4,759.0	0.10	251.00	4,758.5	-14.9	0.9	15.0	176.56
4,854.0	0.10	259.70	4,853.5	-15.0	0.7	15.0	177.18
4,949.0	0.20	255.70	4,948.5	-15.0	0.5	15.0	178.11
5,044.0	0.20	151.20	5,043.5	-15.2	0.4	15.2	178.44
5,139.0	0.40	191.90	5,138.5	-15.7	0.4	15.7	178.45
5,234.0	0.60	213.10	5,233.5	-16.4	0.1	16.4	179.70
5,328.0	1.00	222.10	5,327.5	-17.4	-0.7	17.5	182.41
5,424.0	0.40	292.70	5,423.5	-17.9	-1.6	18.0	185.11
5,518.0	0.20	252.70	5,517.5	-17.9	-2.1	18.0	186.59
5,614.0	0.40	211.70	5,613.5	-18.2	-2.4	18.4	187.51
5,710.0	0.40	145.20	5,709.5	-18.8	-2.4	18.9	187.24
5,805.0	0.70	166.70	5,804.5	-19.6	-2.1	19.7	186.01
5,900.0	1.00	161.20	5,899.5	-20.9	-1.7	21.0	184.53
5,995.0	1.30	168.60	5,994.5	-22.8	-1.2	22.8	182.97
6,090.0	0.70	207.70	6,089.5	-24.4	-1.2	24.4	182.91
6,184.0	1.10	202.20	6,183.4	-25.7	-1.8	25.8	184.11
6,279.0	0.90	246.30	6,278.4	-26.8	-2.9	27.0	186.11
6,374.0	1.50	321.10	6,373.4	-26.2	-4.3	26.5	189.41
6,470.0	0.80	325.60	6,469.4	-24.6	-5.5	25.3	192.59
6,565.0	0.50	274.80	6,564.4	-24.1	-6.3	24.9	194.65
6,660.0	1.10	216.70	6,659.4	-24.8	-7.3	25.8	196.32
6,755.0	1.20	224.00	6,754.4	-26.2	-8.5	27.5	197.94
6,849.0	1.60	348.30	6,848.3	-25.6	-9.4	27.3	200.21



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6,944.0	3.00	346.50	6,943.3	-21.9	-10.3	24.2	205.15
7,039.0	2.80	335.90	7,038.1	-17.4	-11.8	21.0	214.21
7,134.0	2.10	341.80	7,133.1	-13.6	-13.3	19.0	224.36
7,230.0	1.70	346.00	7,229.0	-10.6	-14.2	17.7	233.38
7,324.0	2.00	340.40	7,323.0	-7.7	-15.1	16.9	243.10
7,419.0	1.30	295.10	7,417.9	-5.6	-16.6	17.5	251.27
7,514.0	1.80	219.40	7,512.9	-6.3	-18.5	19.6	251.14
7,610.0	0.30	174.90	7,608.9	-7.7	-19.5	21.0	248.31
7,704.0	1.30	250.20	7,702.9	-8.4	-20.5	22.1	247.79
7,800.0	2.10	245.60	7,798.8	-9.4	-23.1	24.9	247.74
7,895.0	1.20	291.50	7,893.8	-9.8	-25.6	27.4	249.04
7,989.0	1.80	329.80	7,987.8	-8.2	-27.3	28.5	253.32
8,085.0	1.10	301.00	8,083.7	-6.4	-28.8	29.5	257.49
8,180.0	1.50	330.00	8,178.7	-4.8	-30.2	30.6	260.89
8,275.0	1.60	21.90	8,273.7	-2.5	-30.3	30.4	265.22
8,370.0	1.50	12.40	8,368.6	-0.1	-29.6	29.6	269.82
8,465.0	1.80	332.30	8,463.6	2.4	-30.0	30.1	274.66
8,560.0	1.80	37.50	8,558.6	5.0	-29.8	30.2	279.44
8,655.0	0.90	46.60	8,653.5	6.6	-28.3	29.1	283.20
8,750.0	0.70	324.80	8,748.5	7.6	-28.1	29.1	285.19
8,846.0	1.50	344.20	8,844.5	9.3	-28.8	30.3	287.93
8,940.0	1.60	19.50	8,938.5	11.7	-28.7	31.0	292.25
9,034.0	1.60	22.40	9,032.4	14.2	-27.8	31.2	297.08
9,129.0	3.10	66.90	9,127.4	16.4	-24.9	29.8	303.42
9,225.0	4.10	94.60	9,223.2	17.2	-19.1	25.7	311.98
9,320.0	2.50	115.10	9,318.0	16.0	-13.8	21.2	319.21
9,415.0	1.50	161.80	9,413.0	14.0	-11.6	18.1	320.37



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9,511.0	1.60	181.10	9,508.9	11.4	-11.2	16.0	315.59
9,606.0	1.20	173.90	9,603.9	9.1	-11.1	14.4	309.35
9,701.0	0.70	172.60	9,698.9	7.5	-10.9	13.3	304.62
9,797.0	0.20	114.90	9,794.9	6.9	-10.7	12.7	302.78
9,892.0	0.40	309.60	9,889.9	7.0	-10.8	12.9	303.06
9,956.0	0.70	328.80	9,953.9	7.5	-11.2	13.5	303.89
9,987.0	0.30	285.80	9,984.9	7.7	-11.4	13.7	304.12
10,019.0	0.70	19.30	10,016.9	7.9	-11.4	13.9	304.79
10,051.0	3.40	1.90	10,048.9	9.0	-11.3	14.5	308.70
10,083.0	5.40	9.00	10,080.8	11.5	-11.0	15.9	316.17
10,115.0	9.10	4.60	10,112.5	15.5	-10.6	18.7	325.67
10,146.0	11.60	3.50	10,143.0	21.0	-10.2	23.4	334.16
10,178.0	14.60	359.00	10,174.2	28.3	-10.1	30.0	340.42
10,209.0	17.00	353.90	10,204.0	36.7	-10.6	38.2	343.87
10,241.0	20.40	358.30	10,234.3	46.9	-11.3	48.3	346.49
10,272.0	25.00	359.10	10,262.9	58.9	-11.5	60.0	348.91
10,304.0	28.40	1.50	10,291.5	73.3	-11.4	74.1	351.12
10,336.0	32.30	2.10	10,319.1	89.4	-10.9	90.1	353.03
10,367.0	36.70	3.10	10,344.6	107.0	-10.1	107.4	354.59
10,400.0	41.70	3.30	10,370.2	127.8	-9.0	128.1	355.99
10,432.0	44.30	2.60	10,393.6	149.6	-7.8	149.8	357.00
10,463.0	46.80	1.30	10,415.3	171.7	-7.1	171.8	357.63
10,495.0	50.30	359.40	10,436.5	195.7	-7.0	195.8	357.96
10,526.0	52.20	358.80	10,455.9	219.8	-7.3	219.9	358.09
10,558.0	55.00	357.70	10,474.9	245.6	-8.1	245.7	358.10
10,590.0	58.90	358.10	10,492.3	272.4	-9.1	272.5	358.08
10,621.0	60.90	358.70	10,507.9	299.2	-9.9	299.3	358.11



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10,653.0	63.10	359.60	10,522.9	327.4	-10.3	327.6	358.20
10,685.0	66.20	359.70	10,536.6	356.3	-10.5	356.5	358.32
10,717.0	68.20	359.00	10,549.0	385.8	-10.8	386.0	358.40
10,749.0	70.50	358.00	10,560.3	415.8	-11.6	415.9	358.41
10,768.0	72.20	357.50	10,566.4	433.8	-12.3	433.9	358.38
10,788.0	75.20	357.30	10,572.0	452.9	-13.2	453.1	358.34
10,819.0	78.40	357.90	10,579.0	483.1	-14.4	483.3	358.29
10,851.0	81.00	358.00	10,584.8	514.5	-15.5	514.8	358.27
10,883.0	83.80	358.90	10,589.0	546.2	-16.4	546.5	358.28
10,915.0	86.10	0.00	10,591.8	578.1	-16.7	578.4	358.35
10,927.2	86.71	0.38	10,592.6	590.3	-16.7	590.5	358.38
LP Speedwagon 27 W2PA Fee 1H							
10,947.0	87.70	1.00	10,593.5	610.1	-16.4	610.3	358.46
11,010.0	89.80	1.20	10,594.9	673.0	-15.2	673.2	358.71
11,106.0	90.60	2.50	10,594.6	769.0	-12.1	769.1	359.10
11,201.0	90.30	2.70	10,593.8	863.9	-7.8	863.9	359.48
11,296.0	90.80	3.50	10,592.9	958.7	-2.7	958.7	359.84
11,391.0	91.20	4.20	10,591.3	1,053.5	3.7	1,053.5	0.20
11,486.0	86.90	1.90	10,592.8	1,148.3	8.8	1,148.4	0.44
11,582.0	87.00	1.20	10,597.9	1,244.2	11.4	1,244.2	0.52
11,677.0	91.00	2.00	10,599.6	1,339.1	14.0	1,339.2	0.60
11,772.0	91.30	0.60	10,597.7	1,434.0	16.2	1,434.1	0.65
11,867.0	88.10	357.50	10,598.2	1,529.0	14.6	1,529.1	0.55
11,963.0	90.20	356.60	10,599.6	1,624.9	9.6	1,624.9	0.34
12,059.0	91.00	356.50	10,598.6	1,720.7	3.9	1,720.7	0.13
12,154.0	90.30	355.60	10,597.5	1,815.4	-2.7	1,815.4	359.92
12,249.0	89.20	355.20	10,598.0	1,910.1	-10.3	1,910.2	359.69

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 34-27-23S-28E Speedwagon 27 W2PA F
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

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,345.0	89.50	356.90	10,599.0	2,005.9	-16.9	2,006.0	359.52
12,439.0	89.00	358.40	10,600.3	2,099.8	-20.8	2,099.9	359.43
12,534.0	89.20	359.10	10,601.8	2,194.8	-22.8	2,194.9	359.40
12,629.0	89.90	0.90	10,602.5	2,289.8	-22.8	2,289.9	359.43
12,728.0	91.20	1.60	10,601.6	2,388.7	-20.7	2,388.8	359.50
12,822.0	89.20	0.50	10,601.2	2,482.7	-18.9	2,482.8	359.56
12,918.0	88.80	358.30	10,602.9	2,578.7	-20.0	2,578.8	359.56
13,013.0	90.40	359.50	10,603.6	2,673.7	-21.8	2,673.8	359.53
13,108.0	89.10	358.10	10,604.0	2,768.6	-23.8	2,768.7	359.51
13,203.0	90.60	359.80	10,604.2	2,863.6	-25.5	2,863.7	359.49
13,298.0	90.30	359.00	10,603.5	2,958.6	-26.5	2,958.7	359.49
13,393.0	89.70	359.40	10,603.5	3,053.6	-27.8	3,053.7	359.48
13,489.0	90.30	358.30	10,603.5	3,149.6	-29.8	3,149.7	359.46
13,584.0	90.20	359.40	10,603.1	3,244.6	-31.7	3,244.7	359.44
13,680.0	91.20	359.50	10,601.9	3,340.5	-32.6	3,340.7	359.44
13,775.0	90.60	356.90	10,600.4	3,435.5	-35.6	3,435.7	359.41
13,870.0	90.80	357.40	10,599.2	3,530.3	-40.3	3,530.6	359.35
13,965.0	91.00	359.60	10,597.8	3,625.3	-42.8	3,625.5	359.32
14,060.0	90.00	357.90	10,596.9	3,720.3	-44.8	3,720.5	359.31
14,155.0	90.50	359.80	10,596.5	3,815.2	-46.8	3,815.5	359.30
14,250.0	91.60	359.70	10,594.8	3,910.2	-47.2	3,910.5	359.31
14,345.0	90.40	358.10	10,593.1	4,005.2	-49.0	4,005.5	359.30
14,440.0	89.50	358.60	10,593.2	4,100.1	-51.7	4,100.5	359.28
14,533.0	90.30	359.00	10,593.4	4,193.1	-53.7	4,193.5	359.27
14,629.0	88.80	356.60	10,594.1	4,289.0	-57.4	4,289.4	359.23
14,724.0	90.50	358.20	10,594.7	4,383.9	-61.7	4,384.4	359.19
14,819.0	90.30	358.10	10,594.0	4,478.9	-64.7	4,479.4	359.17



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 34-27-23S-28E Speedwagon 27 W2PA F
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

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
14,914.0	89.10	359.00	10,594.5	4,573.8	-67.1	4,574.3	359.16
15,009.0	91.10	0.30	10,594.4	4,668.8	-67.7	4,669.3	359.17
15,104.0	89.90	358.50	10,593.5	4,763.8	-68.7	4,764.3	359.17
15,199.0	89.40	357.40	10,594.1	4,858.8	-72.1	4,859.3	359.15
15,295.0	90.70	356.60	10,594.0	4,954.6	-77.1	4,955.2	359.11
15,390.0	89.50	358.30	10,593.9	5,049.5	-81.4	5,050.2	359.08
15,485.0	88.40	358.10	10,595.6	5,144.5	-84.3	5,145.2	359.06
15,580.0	88.40	357.80	10,598.3	5,239.4	-87.7	5,240.1	359.04
15,627.0	88.30	358.00	10,599.6	5,286.3	-89.5	5,287.1	359.03
15,675.0	88.30	358.00	10,601.0	5,334.3	-91.1	5,335.0	359.02

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

Survey Annotations

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