



October 12, 2017

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

30-015-44115

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 September 09, 2017, through September 28, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 579 feet to a depth of 14,727 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 WOPA Fee #002H well, API # 30-015-44115 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

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 34-27-23S-28E Speedwagon 27 WOPA F
Well: Speedwagon 27 WOPA Fee 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Speedwagon 27 WOPA Fee 2H
TVD Reference: 3038 + 27 @ 3065.0usft (Patterson 245)
MD Reference: 3038 + 27 @ 3065.0usft (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 WOPA Fee 2H		
Site Position:		Northing: 461,330.00 usft	Latitude: 32° 16' 4.919 N
From: Map		Easting: 582,182.40 usft	Longitude: 104° 4' 2.814 W
Position Uncertainty: 0.0 usft		Slot Radius: 13-3/16 "	Grid Convergence: 0.14 °

Well	Speedwagon 27 WOPA Fee 2H		
Well Position	+N/-S 0.0 usft	Northing: 461,330.00 usft	Latitude: 32° 16' 4.919 N
	+E/-W 0.0 usft	Easting: 582,182.40 usft	Longitude: 104° 4' 2.814 W
Position Uncertainty 0.0 usft		Wellhead Elevation: usft	Ground Level: 3,038.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/29/2017	7.17	60.02	47,893.39705230

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	155.09	



Microsoft MWD Surveys



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Survey Program **Date** 9/28/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
142.0	512.0	Rig Survey (Original Hole)	MWD	MWD v3:standard declination
579.0	14,775.0	MWD Survey #2 (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 (°)
512.0	2.20	269.00	511.9	2.1	-8.0	8.3	284.63
579.0	2.80	265.80	578.8	1.9	-10.9	11.1	280.11
641.0	1.20	281.70	640.8	2.0	-13.1	13.2	278.57
702.0	0.40	306.60	701.8	2.2	-13.9	14.0	279.12
764.0	0.70	90.60	763.8	2.4	-13.7	13.9	279.76
830.0	1.40	91.00	829.8	2.3	-12.5	12.7	280.61
894.0	1.00	139.70	893.8	1.9	-11.3	11.5	279.50
957.0	1.20	213.80	956.8	0.9	-11.3	11.4	274.67
1,021.0	0.60	147.20	1,020.8	0.1	-11.5	11.5	270.43
1,084.0	1.20	106.10	1,083.7	-0.4	-10.7	10.7	268.00
1,148.0	1.40	108.20	1,147.7	-0.8	-9.3	9.4	265.07
1,211.0	1.20	115.60	1,210.7	-1.3	-8.0	8.1	260.56
1,274.0	1.20	122.70	1,273.7	-2.0	-6.8	7.1	253.94
1,338.0	1.50	122.60	1,337.7	-2.8	-5.6	6.2	243.46
1,401.0	1.50	134.50	1,400.7	-3.8	-4.3	5.7	228.42
1,465.0	0.50	288.40	1,464.7	-4.3	-4.0	5.8	222.59
1,528.0	1.40	313.10	1,527.6	-3.7	-4.8	6.0	232.32
1,592.0	1.40	302.60	1,591.6	-2.7	-6.0	6.6	245.51
1,655.0	0.20	49.40	1,654.6	-2.3	-6.6	6.9	251.10
1,718.0	1.00	139.50	1,717.6	-2.6	-6.1	6.7	247.05
1,782.0	1.50	149.30	1,781.6	-3.7	-5.3	6.5	235.00

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1,814.0	1.40	151.30	1,813.6	-4.4	-4.9	6.6	228.03
1,911.0	0.90	113.50	1,910.6	-5.8	-3.7	6.9	212.41
2,007.0	1.80	114.40	2,006.5	-6.7	-1.6	6.9	193.49
2,102.0	0.40	74.70	2,101.5	-7.2	0.1	7.2	179.45
2,197.0	1.10	95.80	2,196.5	-7.2	1.3	7.4	169.86
2,292.0	0.40	127.40	2,291.5	-7.5	2.5	7.9	161.88
2,387.0	1.50	120.40	2,386.5	-8.4	3.8	9.2	155.56
2,482.0	0.70	320.40	2,481.5	-8.6	4.5	9.7	152.22
2,556.0	1.40	310.90	2,555.5	-7.6	3.5	8.4	155.09
2,666.0	1.60	300.80	2,665.4	-5.9	1.2	6.1	168.60
2,761.0	0.30	90.40	2,760.4	-5.3	0.3	5.3	176.65
2,855.0	0.30	105.10	2,854.4	-5.3	0.8	5.4	171.55
2,951.0	0.20	135.20	2,950.4	-5.5	1.2	5.6	168.20
3,046.0	0.10	71.30	3,045.4	-5.6	1.3	5.8	166.48
3,141.0	0.10	210.80	3,140.4	-5.7	1.4	5.8	166.24
3,236.0	0.10	262.30	3,235.4	-5.7	1.3	5.9	167.61
3,331.0	0.10	269.70	3,330.4	-5.7	1.1	5.9	169.22
3,426.0	0.30	25.80	3,425.4	-5.5	1.1	5.6	168.54
3,521.0	0.30	354.50	3,520.4	-5.1	1.2	5.2	166.59
3,615.0	0.40	358.80	3,614.4	-4.5	1.2	4.6	165.31
3,711.0	0.40	346.00	3,710.4	-3.8	1.1	4.0	164.13
3,805.0	0.40	348.20	3,804.4	-3.2	0.9	3.3	163.54
3,900.0	0.50	336.30	3,899.4	-2.5	0.7	2.6	164.10
3,996.0	0.40	312.00	3,995.4	-1.9	0.3	1.9	171.24
4,092.0	0.50	303.00	4,091.4	-1.4	-0.3	1.4	192.46
4,188.0	0.50	299.40	4,187.4	-1.0	-1.0	1.4	226.34
4,283.0	0.50	280.80	4,282.4	-0.7	-1.8	1.9	248.70



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4,378.0	0.50	272.40	4,377.4	-0.6	-2.6	2.7	256.98
4,474.0	0.60	264.60	4,473.4	-0.6	-3.5	3.6	259.82
4,569.0	0.70	254.50	4,568.4	-0.8	-4.6	4.7	259.67
4,663.0	0.70	259.80	4,662.4	-1.1	-5.7	5.8	259.17
4,757.0	0.90	253.60	4,756.4	-1.4	-7.0	7.1	258.64
4,852.0	1.10	250.90	4,851.4	-1.9	-8.6	8.8	257.41
4,947.0	0.50	349.00	4,946.3	-1.8	-9.5	9.7	259.26
5,042.0	0.20	41.40	5,041.3	-1.3	-9.5	9.6	262.35
5,136.0	0.10	198.10	5,135.3	-1.2	-9.4	9.5	262.56
5,231.0	0.50	236.90	5,230.3	-1.5	-9.8	9.9	261.08
5,326.0	0.80	243.40	5,325.3	-2.1	-10.7	10.9	259.13
5,421.0	0.90	231.50	5,420.3	-2.8	-11.9	12.2	256.66
5,516.0	0.60	49.90	5,515.3	-3.0	-12.1	12.4	256.23
5,611.0	0.60	63.30	5,610.3	-2.4	-11.3	11.5	257.88
5,707.0	0.80	90.00	5,706.3	-2.2	-10.1	10.4	257.81
5,803.0	1.00	112.00	5,802.3	-2.5	-8.7	9.0	253.92
5,897.0	1.30	126.50	5,896.3	-3.4	-7.1	7.9	244.02
5,992.0	1.10	120.90	5,991.3	-4.6	-5.4	7.1	229.98
6,087.0	1.20	133.90	6,086.2	-5.7	-3.9	6.9	214.49
6,182.0	1.40	162.10	6,181.2	-7.5	-2.9	8.0	200.80
6,277.0	1.00	209.80	6,276.2	-9.3	-2.9	9.8	197.30
6,372.0	0.60	199.90	6,371.2	-10.5	-3.5	11.1	198.35
6,467.0	0.70	212.60	6,466.2	-11.5	-4.0	12.1	199.08
6,562.0	0.70	188.40	6,561.2	-12.5	-4.4	13.3	199.21
6,657.0	0.90	115.00	6,656.2	-13.4	-3.8	13.9	195.71
6,752.0	1.70	120.30	6,751.1	-14.5	-1.9	14.6	187.42
6,847.0	0.40	148.80	6,846.1	-15.4	-0.5	15.5	181.83



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6,942.0	1.50	280.40	6,941.1	-15.5	-1.5	15.6	185.69
7,036.0	1.10	295.20	7,035.1	-14.9	-3.6	15.3	193.48
7,132.0	0.30	351.20	7,131.1	-14.3	-4.4	14.9	197.31
7,227.0	1.00	113.70	7,226.1	-14.3	-3.7	14.8	194.55
7,322.0	0.50	187.50	7,321.1	-15.1	-3.0	15.4	191.31
7,417.0	1.20	218.00	7,416.1	-16.3	-3.7	16.7	192.75
7,512.0	1.80	214.80	7,511.0	-18.3	-5.1	19.0	195.72
7,606.0	0.70	220.50	7,605.0	-19.9	-6.4	20.9	197.70
7,702.0	1.60	338.50	7,701.0	-19.1	-7.2	20.5	200.71
7,797.0	1.80	347.40	7,796.0	-16.5	-8.0	18.3	206.07
7,892.0	0.70	340.00	7,890.9	-14.5	-8.6	16.8	210.67
7,986.0	1.00	308.50	7,984.9	-13.4	-9.4	16.4	215.08
8,082.0	1.00	285.00	8,080.9	-12.7	-10.9	16.7	220.66
8,177.0	1.20	276.50	8,175.9	-12.3	-12.7	17.7	225.75
8,272.0	0.70	11.30	8,270.9	-11.7	-13.5	17.9	229.28
8,367.0	0.50	343.40	8,365.9	-10.7	-13.5	17.3	231.72
8,462.0	0.70	311.60	8,460.9	-9.9	-14.1	17.2	234.90
8,557.0	1.00	331.60	8,555.9	-8.8	-14.9	17.3	239.50
8,652.0	1.20	316.50	8,650.8	-7.3	-16.0	17.6	245.36
8,748.0	1.80	10.60	8,746.8	-5.1	-16.4	17.2	252.65
8,843.0	3.00	25.10	8,841.7	-1.4	-15.1	15.2	264.66
8,937.0	1.90	48.10	8,935.6	1.9	-12.9	13.0	278.20
9,033.0	1.40	42.40	9,031.6	3.8	-10.9	11.5	289.13
9,100.0	1.10	54.60	9,098.6	4.8	-9.8	10.9	295.84
9,125.0	0.90	64.60	9,123.6	5.0	-9.5	10.7	297.79
9,156.0	0.60	33.10	9,154.6	5.2	-9.2	10.5	299.72
9,188.0	2.10	17.20	9,186.6	5.9	-8.9	10.7	303.70



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9,220.0	5.10	16.50	9,218.5	7.9	-8.3	11.4	313.37
9,252.0	8.60	8.60	9,250.3	11.6	-7.5	13.8	326.90
9,283.0	12.70	8.70	9,280.7	17.2	-6.7	18.5	338.81
9,315.0	16.70	9.10	9,311.7	25.3	-5.4	25.8	347.88
9,347.0	20.70	8.20	9,342.0	35.4	-3.9	35.6	353.73
9,378.0	24.40	9.00	9,370.6	47.2	-2.1	47.2	357.44
9,410.0	29.10	9.00	9,399.2	61.4	0.1	61.4	0.13
9,442.0	33.10	8.40	9,426.6	77.7	2.6	77.8	1.94
9,474.0	37.10	7.50	9,452.7	95.9	5.2	96.1	3.09
9,506.0	41.60	6.70	9,477.5	116.1	7.7	116.3	3.78
9,537.0	45.80	5.20	9,499.9	137.4	9.9	137.7	4.12
9,569.0	50.10	3.70	9,521.3	161.0	11.7	161.5	4.16
9,601.0	52.80	0.30	9,541.3	186.0	12.6	186.5	3.87
9,633.0	55.70	357.80	9,560.0	212.0	12.1	212.4	3.28
9,664.0	60.20	356.50	9,576.4	238.2	10.8	238.5	2.60
9,696.0	65.10	357.20	9,591.1	266.6	9.3	266.8	1.99
9,728.0	67.90	357.90	9,603.9	295.9	8.0	296.0	1.55
9,760.0	69.80	358.90	9,615.4	325.8	7.2	325.8	1.26
9,792.0	72.80	359.60	9,625.7	356.1	6.8	356.1	1.09
9,823.0	78.00	358.30	9,633.5	386.0	6.2	386.1	0.92
9,855.0	83.30	358.50	9,638.7	417.6	5.4	417.6	0.73
9,874.0	86.20	358.10	9,640.4	436.5	4.8	436.5	0.63
9,914.3	88.48	357.47	9,642.3	476.8	3.2	476.8	0.39
LP Speedwagon 27 WOPA 2H							
9,964.0	91.30	356.70	9,642.4	526.4	0.7	526.4	0.08
10,059.0	90.60	355.80	9,640.8	621.1	-5.5	621.2	359.49
10,155.0	90.60	357.90	9,639.8	717.0	-10.8	717.1	359.14



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10,250.0	87.60	358.80	9,641.3	811.9	-13.5	812.0	359.05
10,345.0	92.80	0.60	9,641.0	906.9	-14.0	907.0	359.11
10,440.0	91.00	359.40	9,637.8	1,001.8	-14.0	1,001.9	359.20
10,535.0	87.60	358.80	9,639.0	1,096.8	-15.5	1,096.9	359.19
10,630.0	86.60	358.10	9,643.8	1,191.6	-18.1	1,191.8	359.13
10,726.0	90.00	359.90	9,646.6	1,287.6	-19.7	1,287.7	359.12
10,821.0	90.50	359.30	9,646.2	1,382.6	-20.4	1,382.7	359.15
10,917.0	89.00	357.40	9,646.6	1,478.5	-23.2	1,478.7	359.10
11,012.0	89.90	358.00	9,647.5	1,573.4	-27.0	1,573.7	359.02
11,107.0	89.30	356.60	9,648.2	1,668.3	-31.5	1,668.6	358.92
11,203.0	92.40	358.70	9,646.8	1,764.2	-35.4	1,764.6	358.85
11,298.0	89.70	356.90	9,645.0	1,859.1	-39.0	1,859.5	358.80
11,394.0	89.90	358.80	9,645.4	1,955.0	-42.6	1,955.5	358.75
11,488.0	90.30	359.80	9,645.2	2,049.0	-43.8	2,049.5	358.78
11,584.0	89.80	359.40	9,645.1	2,145.0	-44.5	2,145.5	358.81
11,679.0	91.30	359.80	9,644.2	2,240.0	-45.1	2,240.5	358.85
11,774.0	92.00	359.60	9,641.5	2,335.0	-45.6	2,335.4	358.88
11,870.0	90.60	359.70	9,639.3	2,430.9	-46.2	2,431.4	358.91
11,964.0	88.30	1.40	9,640.2	2,524.9	-45.3	2,525.3	358.97
12,060.0	89.80	1.70	9,641.8	2,620.9	-42.7	2,621.2	359.07
12,156.0	91.50	3.20	9,640.7	2,716.8	-38.6	2,717.1	359.19
12,251.0	87.10	359.20	9,641.9	2,811.7	-36.6	2,811.9	359.25
12,346.0	87.70	359.20	9,646.2	2,906.6	-37.9	2,906.8	359.25
12,442.0	90.10	0.10	9,648.0	3,002.6	-38.5	3,002.8	359.26
12,537.0	88.50	358.90	9,649.2	3,097.6	-39.4	3,097.8	359.27
12,631.0	90.60	358.80	9,649.9	3,191.5	-41.2	3,191.8	359.26
12,726.0	90.30	357.90	9,649.2	3,286.5	-44.0	3,286.8	359.23

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 34-27-23S-28E Speedwagon 27 WOPA F
Well: Speedwagon 27 WOPA Fee 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Speedwagon 27 WOPA Fee 2H
TVD Reference: 3038 + 27 @ 3065.0usft (Patterson 245)
MD Reference: 3038 + 27 @ 3065.0usft (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 (°)
12,822.0	89.80	357.00	9,649.1	3,382.4	-48.2	3,382.7	359.18
12,918.0	89.10	358.30	9,650.0	3,478.3	-52.2	3,478.7	359.14
13,013.0	88.10	357.70	9,652.3	3,573.2	-55.5	3,573.6	359.11
13,109.0	90.40	0.10	9,653.6	3,669.2	-57.3	3,669.6	359.10
13,204.0	90.20	0.20	9,653.1	3,764.2	-57.1	3,764.6	359.13
13,299.0	91.20	0.50	9,651.9	3,859.2	-56.5	3,859.6	359.16
13,394.0	89.90	359.60	9,651.0	3,954.2	-56.4	3,954.6	359.18
13,489.0	90.50	359.90	9,650.7	4,049.2	-56.8	4,049.6	359.20
13,585.0	91.40	359.80	9,649.1	4,145.1	-57.1	4,145.5	359.21
13,680.0	89.10	0.20	9,648.7	4,240.1	-57.1	4,240.5	359.23
13,775.0	89.30	359.80	9,650.0	4,335.1	-57.1	4,335.5	359.25
13,870.0	89.30	358.80	9,651.2	4,430.1	-58.3	4,430.5	359.25
13,966.0	91.60	359.30	9,650.4	4,526.1	-59.8	4,526.5	359.24
14,061.0	90.70	357.90	9,648.5	4,621.0	-62.2	4,621.5	359.23
14,156.0	91.20	0.40	9,646.9	4,716.0	-63.6	4,716.4	359.23
14,251.0	90.40	359.30	9,645.6	4,811.0	-63.8	4,811.4	359.24
14,346.0	90.80	3.20	9,644.6	4,905.9	-61.8	4,906.3	359.28
14,441.0	90.80	3.70	9,643.3	5,000.8	-56.0	5,001.1	359.36
14,534.0	89.20	2.50	9,643.3	5,093.6	-51.0	5,093.9	359.43
14,629.0	87.60	0.90	9,645.9	5,188.5	-48.2	5,188.8	359.47
14,727.0	91.40	2.50	9,646.8	5,286.5	-45.3	5,286.7	359.51
14,775.0	91.40	2.50	9,645.6	5,334.4	-43.2	5,334.6	359.54

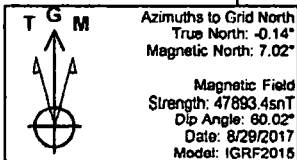
14775' MD Projected to Bit - PBHL Speedwagon 27 WOPA Fee #2H

GEODEIC ZONE: New Mexico East 3001
3038 + 27 @ 3085.0usft (Patterson 245)
GROUND ELEVATION: 3038.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.0	0.0	461330.00	582182.40	32° 16' 4.919 N	104° 4' 2.814 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9164.5	0.00	0.00	9164.5	0.0	0.0	0.00	0.00	0.0	
3	9913.5	89.87	359.47	8642.0	476.4	-4.4	12.00	359.47	476.4	
4	14777.5	89.87	359.47	9653.0	5340.2	-49.0	0.00	0.00	5340.4	PBHL Speedwagon 27 WOPA Fee #2H



SHL 260' FNL: 430' FEL
Section 34-23S-28E
PBHL 330' FNL: 430' FEL
Section 27-23S-28E

