



COMPANY: Mewbourne Oil Company
 WELL: Jennings 27 W0BO Fed Com 1H
 COUNTY: Lea County N. M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson 242



OFFICE: 936.582.7294

HOBBS OGD
 NOV 15 2018
 RECEIVED

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.54°

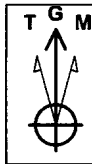
GEODETTIC ZONE: New Mexico Eastern Zone
 3396 +27 @ 3423.0usft (Patterson 242)
 GROUND ELEVATION: 3396.0

+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	403670.50	750287.60	32° 6' 28.697 N	103° 39' 30.563 W	

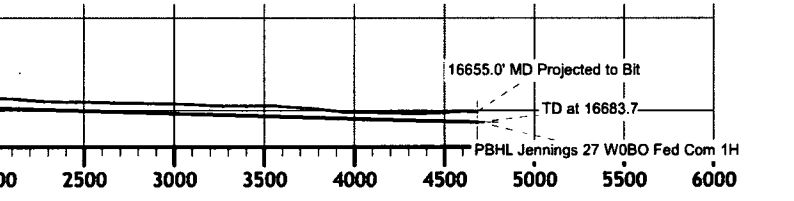
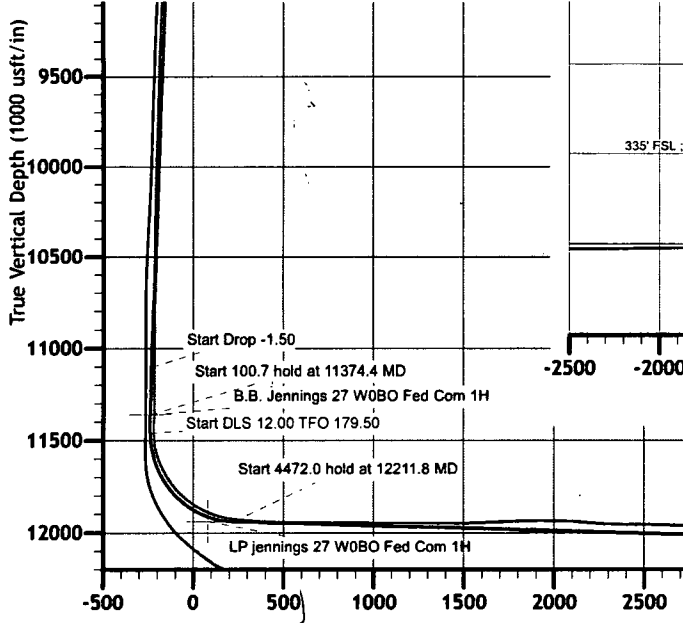
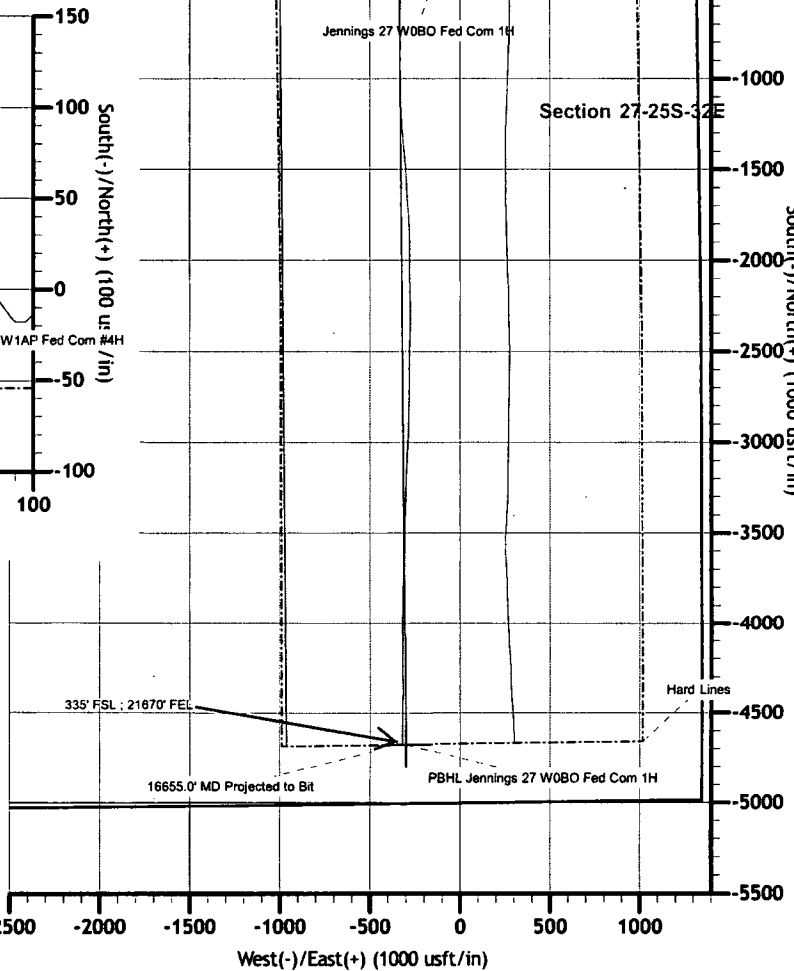
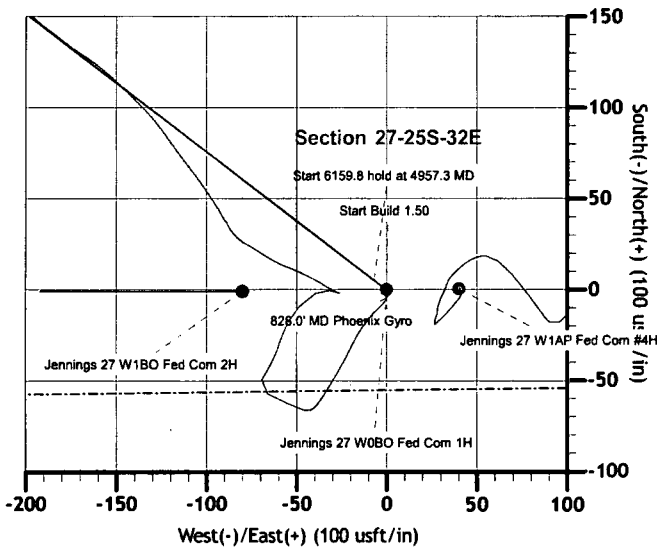
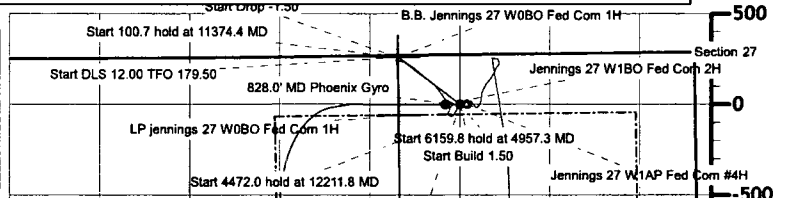
PLAN SECTIONS

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	4700.0	0.00	0.00	4700.0	0.0	0.0	0.00	0.00	0.0	
3	4957.3	3.86	307.17	4957.1	5.2	-6.9	1.50	307.17	-4.8	
4	11117.1	3.86	307.17	11102.9	255.7	-337.2	0.00	0.00	-233.5	
5	11374.4	0.00	0.00	11360.0	260.9	-344.1	1.50	180.00	-238.2	B.B. Jennings 27 W0BO Fed Com 1H
6	11475.1	0.00	0.00	11460.7	260.9	-344.1	0.00	0.00	-238.2	
7	12211.8	88.40	179.50	11938.0	-203.2	-340.1	12.00	179.50	224.6	
8	16683.7	88.40	179.50	12063.0	-4673.2	-301.3	0.00	0.00	4682.9	PBHL Jennings 27 W0BO Fed Com 1H

SHL: 275' FNL; 1310' FEL
 Section 27-25S-32E
 PBHL: 330' FSL; 1650 FEL
 Section 27-25S-32E



Azimuths to Grid North
 True North: -0.36°
 Magnetic North: 6.54°
 Magnetic Field
 Strength: 47780.0nT
 Dip Angle: 59.93°
 Date: 3/29/2018
 Model: IGRF2015





Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 27-25S-32E Jennings 27 W0BO Fed Com 1H

Jennings 27 W0BO Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

29 May, 2018





Microsoft Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Jennings 27 W0BO Fed Com 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3396 +27 @ 3423.0usft (Patterson 242)
Site:	Section 27-25S-32E Jennings 27 W0BO Fed Com 1H	MD Reference:	3396 +27 @ 3423.0usft (Patterson 242)
Well:	Jennings 27 W0BO Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N. M. 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	Section 27-25S-32E Jennings 27 W0BO Fed Com 1H				
Site Position:		Northing:	403,670.50 usft	Latitude:	32° 6' 28.697 N
From:	Map	Easting:	750,287.60 usft	Longitude:	103° 39' 30.563 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Jennings 27 W0BO Fed Com 1H					
Well Position	+N-S	0.0 usft	Northing:	403,670.50 usft	Latitude:	32° 6' 28.697 N
	+E-W	0.0 usft	Easting:	750,287.60 usft	Longitude:	103° 39' 30.563 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,396.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/29/2018	6.90	59.93	47,780.00098906

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	245.53	

Survey Program	Date 5/29/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	828.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline	
954.0	16,655.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

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	0.79	50.11	100.0	0.4	0.5	-0.7	0.79	0.79	0.00
200.0	0.51	25.88	200.0	1.3	1.3	-1.7	0.39	-0.28	-24.23
300.0	0.38	59.95	300.0	1.9	1.7	-2.3	0.29	-0.13	34.07
400.0	0.36	159.47	400.0	1.7	2.1	-2.7	0.57	-0.02	99.52
500.0	0.68	189.89	500.0	0.8	2.1	-2.3	0.41	0.32	30.42
600.0	0.81	200.52	600.0	-0.4	1.8	-1.5	0.19	0.13	10.63
700.0	1.00	208.98	700.0	-1.8	1.1	-0.3	0.23	0.19	8.46
800.0	1.28	202.64	799.9	-3.6	0.3	1.3	0.31	0.28	-6.34

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Site:	Section 27-25S-32E Jennings 27 W0BO Fed Com 1H	MD Reference:	3396 +27 @ 3423.0usft (Patterson 242)
Well:	Jennings 27 W0BO Fed Com 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)	
828.0	1.46	193.19	827.9	-4.3	0.1	1.7	1.03	0.64	-33.75	
828.0' MD Phoenix Gyro										
954.0	1.70	224.00	953.9	-7.2	-1.6	4.4	0.69	0.19	24.45	
1,144.0	1.80	226.40	1,143.8	-11.3	-5.7	9.9	0.07	0.05	1.26	
1,335.0	1.80	218.40	1,334.7	-15.7	-9.8	15.4	0.13	0.00	-4.19	
1,525.0	1.90	216.00	1,524.6	-20.6	-13.5	20.8	0.07	0.05	-1.26	
1,715.0	2.20	208.40	1,714.5	-26.3	-17.0	26.4	0.21	0.16	-4.00	
1,901.0	2.60	206.10	1,900.3	-33.2	-20.6	32.5	0.22	0.22	-1.24	
2,088.0	3.10	209.80	2,087.1	-41.4	-25.0	39.9	0.28	0.27	1.98	
2,275.0	3.70	211.40	2,273.8	-51.0	-30.6	49.0	0.32	0.32	0.86	
2,460.0	4.30	214.80	2,458.3	-61.8	-37.7	59.9	0.35	0.32	1.84	
2,646.0	2.90	290.40	2,644.0	-65.9	-46.1	69.2	2.45	-0.75	40.65	
2,832.0	3.30	293.30	2,829.8	-62.1	-55.4	76.2	0.23	0.22	1.56	
3,019.0	4.00	298.00	3,016.4	-56.9	-66.1	83.8	0.41	0.37	2.51	
3,205.0	3.30	29.50	3,202.1	-49.2	-69.2	83.4	2.82	-0.38	49.19	
3,392.0	2.40	30.50	3,388.9	-41.1	-64.6	75.8	0.48	-0.48	0.53	
3,578.0	2.30	19.50	3,574.7	-34.3	-61.4	70.0	0.25	-0.05	-5.91	
3,765.0	2.60	19.20	3,761.6	-26.7	-58.7	64.5	0.16	0.16	-0.16	
3,951.0	3.10	26.10	3,947.3	-18.2	-55.1	57.7	0.33	0.27	3.71	
4,138.0	4.00	42.50	4,134.0	-8.9	-48.5	47.8	0.72	0.48	8.77	
4,324.0	3.00	63.70	4,319.6	-1.9	-39.7	37.0	0.87	-0.54	11.40	
4,511.0	2.10	99.40	4,506.5	-0.3	-32.0	29.2	0.95	-0.48	19.09	
4,546.0	2.10	100.80	4,541.4	-0.5	-30.7	28.2	0.15	0.00	4.00	
4,603.0	1.90	107.80	4,598.4	-1.0	-28.8	26.6	0.55	-0.35	12.28	
4,790.0	0.00	287.50	4,785.4	-2.0	-25.8	24.3	1.02	-1.02	0.00	
4,883.0	2.90	293.20	4,878.3	-1.1	-28.0	25.9	3.12	3.12	0.00	
4,976.0	4.00	301.00	4,971.2	1.5	-32.9	29.3	1.28	1.18	8.39	
5,163.0	3.80	296.50	5,157.7	7.7	-44.1	36.9	0.20	-0.11	-2.41	
5,350.0	3.90	291.10	5,344.3	12.7	-55.5	45.3	0.20	0.05	-2.89	
5,536.0	4.20	302.70	5,529.8	18.7	-67.2	53.4	0.47	0.16	6.24	
5,722.0	3.80	299.00	5,715.4	25.3	-78.3	60.8	0.26	-0.22	-1.99	
5,909.0	4.40	329.10	5,901.9	34.5	-87.4	65.3	1.18	0.32	16.10	
6,095.0	4.40	327.30	6,087.4	46.6	-94.9	67.1	0.07	0.00	-0.97	
6,282.0	3.70	324.40	6,273.9	57.6	-102.3	69.3	0.39	-0.37	-1.55	
6,469.0	3.60	321.40	6,460.5	67.1	-109.5	71.9	0.12	-0.05	-1.60	
6,655.0	5.00	324.40	6,646.0	78.2	-117.9	74.9	0.76	0.75	1.61	
6,841.0	4.70	321.90	6,831.3	90.8	-127.3	78.2	0.20	-0.16	-1.34	
7,026.0	4.70	314.70	7,015.7	102.1	-137.3	82.7	0.32	0.00	-3.89	
7,213.0	4.60	314.10	7,202.1	112.7	-148.2	88.2	0.06	-0.05	-0.32	
7,400.0	4.10	308.10	7,388.6	122.1	-158.8	94.0	0.36	-0.27	-3.21	
7,586.0	3.50	301.60	7,574.2	129.1	-168.9	100.2	0.40	-0.32	-3.49	
7,772.0	4.00	308.40	7,759.8	136.1	-178.8	106.3	0.36	0.27	3.66	

Company: Mewbourne Oil Company	Local Co-ordinate Reference: Well Jennings 27 W0BO Fed Com 1H
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Site: Section 27-25S-32E Jennings 27 W0BO Fed Com 1H	MD Reference: 3396 +27 @ 3423.0usft (Patterson 242)
Well: Jennings 27 W0BO Fed Com 1H	North Reference: Grid
Wellbore: Original Hole	Survey Calculation Method: Minimum Curvature
Design: Original Hole	Database: Stryker_EDM

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)
7,958.0	3.70	306.10	7,945.3	143.7	-188.7	112.3	0.18	-0.16	-1.24
8,145.0	4.30	315.20	8,131.9	152.2	-198.5	117.7	0.47	0.32	4.87
8,331.0	3.70	311.40	8,317.4	161.2	-208.0	122.5	0.35	-0.32	-2.04
8,517.0	3.20	307.00	8,503.1	168.2	-216.6	127.5	0.30	-0.27	-2.37
8,704.0	4.10	314.00	8,689.7	176.0	-225.6	132.4	0.54	0.48	3.74
8,891.0	3.30	306.40	8,876.3	183.9	-234.7	137.5	0.50	-0.43	-4.06
9,078.0	3.50	312.60	9,063.0	190.9	-243.3	142.3	0.22	0.11	3.32
9,264.0	3.70	308.50	9,248.6	198.5	-252.1	147.3	0.18	0.11	-2.20
9,450.0	3.30	304.80	9,434.3	205.3	-261.2	152.7	0.25	-0.22	-1.99
9,636.0	2.90	296.90	9,620.0	210.5	-269.8	158.4	0.31	-0.22	-4.25
9,822.0	4.40	300.50	9,805.6	216.2	-280.2	165.4	0.82	0.81	1.94
10,008.0	2.90	309.10	9,991.2	222.8	-290.0	171.6	0.86	-0.81	4.62
10,195.0	2.80	307.40	10,178.0	228.6	-297.3	175.9	0.07	-0.05	-0.91
10,382.0	2.60	287.00	10,364.8	232.6	-305.0	181.2	0.52	-0.11	-10.91
10,568.0	3.60	285.00	10,550.5	235.3	-314.6	188.9	0.54	0.54	-1.08
10,755.0	3.20	284.10	10,737.2	238.1	-325.4	197.5	0.22	-0.21	-0.48
10,941.0	3.60	281.00	10,922.9	240.5	-336.1	206.3	0.24	0.22	-1.67
11,127.0	1.80	274.70	11,108.7	241.9	-344.8	213.6	0.98	-0.97	-3.39
11,314.0	2.00	296.80	11,295.6	243.6	-350.6	218.2	0.40	0.11	11.82
11,378.5	1.94	297.43	11,360.0	244.6	-352.6	219.6	0.10	-0.09	0.97
B.B. Jennings 27 W0BO Fed Com 1H									
11,425.0	1.90	297.90	11,406.5	245.3	-354.0	220.6	0.10	-0.09	1.02
11,458.0	1.80	291.00	11,439.5	245.8	-354.9	221.3	0.74	-0.30	-20.91
11,489.0	1.80	199.00	11,470.5	245.5	-355.5	221.9	8.35	0.00	-296.77
11,520.0	6.10	174.40	11,501.4	243.4	-355.5	222.8	14.60	13.87	-79.35
11,551.0	11.10	169.10	11,532.0	238.8	-354.8	224.0	16.31	16.13	-17.10
11,582.0	16.80	169.20	11,562.1	231.5	-353.4	225.8	18.39	18.39	0.32
11,613.0	20.50	170.30	11,591.5	221.7	-351.7	228.2	11.99	11.94	3.55
11,645.0	23.10	171.30	11,621.2	210.0	-349.8	231.4	8.21	8.13	3.13
11,675.0	26.70	172.10	11,648.4	197.5	-348.0	234.9	12.05	12.00	2.67
11,706.0	30.50	173.40	11,675.6	182.8	-346.1	239.3	12.42	12.26	4.19
11,737.0	33.50	174.00	11,701.9	166.4	-344.3	244.4	9.73	9.68	1.94
11,768.0	37.30	175.10	11,727.2	148.6	-342.6	250.3	12.43	12.26	3.55
11,799.0	40.90	176.30	11,751.2	129.1	-341.1	257.0	11.87	11.61	3.87
11,830.0	44.30	176.90	11,774.0	108.1	-339.9	264.6	11.05	10.97	1.94
11,861.0	47.30	177.40	11,795.6	85.9	-338.8	272.8	9.75	9.68	1.61
11,892.0	50.90	178.10	11,815.9	62.5	-337.9	281.6	11.74	11.61	2.26
11,923.0	54.40	178.90	11,834.7	37.9	-337.2	291.2	11.48	11.29	2.58
11,954.0	57.80	179.30	11,852.0	12.2	-336.8	301.5	11.02	10.97	1.29
11,985.0	61.50	179.30	11,867.7	-14.6	-336.5	312.3	11.94	11.94	0.00
12,016.0	65.70	178.60	11,881.5	-42.3	-336.0	323.4	13.70	13.55	-2.26
12,047.0	69.50	178.80	11,893.3	-71.0	-335.3	334.6	12.27	12.26	0.65
12,049.9	69.85	178.86	11,894.3	-73.7	-335.3	335.7	12.08	11.93	1.98

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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)
LP jennings 27 W0BO Fed Com 1H									
12,078.0	73.20	179.40	11,903.2	-100.4	-334.9	346.4	12.08	11.94	1.93
12,088.0	74.40	179.40	11,906.0	-110.0	-334.8	350.3	12.00	12.00	0.00
12,134.0	78.90	180.60	11,916.6	-154.7	-334.8	368.8	10.11	9.78	2.61
12,165.0	81.20	180.40	11,922.0	-185.2	-335.1	381.7	7.45	7.42	-0.65
12,196.0	81.30	180.20	11,926.7	-215.9	-335.2	394.5	0.71	0.32	-0.65
12,227.0	83.80	179.80	11,930.7	-246.6	-335.2	407.3	8.17	8.06	-1.29
12,257.0	84.60	179.50	11,933.7	-276.4	-335.0	419.5	2.85	2.67	-1.00
12,319.0	88.10	179.30	11,937.7	-338.3	-334.4	444.5	5.65	5.65	-0.32
12,381.0	87.80	179.80	11,939.9	-400.3	-333.9	469.7	0.94	-0.48	0.81
12,474.0	87.30	179.30	11,943.9	-493.2	-333.2	507.5	0.76	-0.54	-0.54
12,567.0	90.50	180.30	11,945.6	-586.1	-332.8	545.7	3.60	3.44	1.08
12,660.0	91.10	180.10	11,944.3	-679.1	-333.2	584.6	0.68	0.65	-0.22
12,753.0	89.00	180.50	11,944.3	-772.1	-333.7	623.5	2.30	-2.26	0.43
12,846.0	88.70	179.90	11,946.1	-865.1	-334.0	662.3	0.72	-0.32	-0.65
12,939.0	89.90	179.40	11,947.3	-958.1	-333.4	700.3	1.40	1.29	-0.54
13,032.0	90.40	178.90	11,947.0	-1,051.1	-332.0	737.6	0.76	0.54	-0.54
13,125.0	89.70	177.50	11,946.9	-1,144.0	-329.1	773.4	1.68	-0.75	-1.51
13,218.0	88.00	176.40	11,948.8	-1,236.9	-324.2	807.4	2.18	-1.83	-1.18
13,311.0	92.60	175.60	11,948.3	-1,329.6	-317.7	839.9	5.02	4.95	-0.86
13,404.0	88.50	174.90	11,947.4	-1,422.3	-310.0	871.3	4.47	-4.41	-0.75
13,497.0	93.10	176.40	11,946.1	-1,515.0	-302.9	903.3	5.20	4.95	1.61
13,590.0	92.30	176.20	11,941.7	-1,607.7	-296.9	936.2	0.89	-0.86	-0.22
13,684.0	91.30	175.70	11,938.8	-1,701.4	-290.3	969.0	1.19	-1.06	-0.53
13,777.0	91.20	175.60	11,936.8	-1,794.1	-283.2	1,001.0	0.15	-0.11	-0.11
13,871.0	92.00	180.20	11,934.1	-1,888.0	-279.8	1,036.7	4.97	0.85	4.89
13,963.0	88.70	179.80	11,933.6	-1,980.0	-279.8	1,074.8	3.61	-3.59	-0.43
14,056.0	87.80	179.90	11,936.4	-2,072.9	-279.6	1,113.1	0.97	-0.97	0.11
14,149.0	84.70	178.50	11,942.5	-2,165.7	-278.3	1,150.4	3.66	-3.33	-1.51
14,243.0	87.20	179.40	11,949.1	-2,259.4	-276.5	1,187.6	2.83	2.66	0.96
14,337.0	88.70	181.10	11,952.5	-2,353.4	-277.0	1,226.9	2.41	1.60	1.81
14,429.0	89.80	181.80	11,953.7	-2,445.3	-279.3	1,267.1	1.42	1.20	0.76
14,522.0	89.50	180.50	11,954.3	-2,538.3	-281.2	1,307.3	1.43	-0.32	-1.40
14,615.0	88.00	180.00	11,956.3	-2,631.3	-281.6	1,346.2	1.70	-1.61	-0.54
14,707.0	89.60	180.80	11,958.2	-2,723.3	-282.2	1,384.9	1.94	1.74	0.87
14,800.0	89.00	181.00	11,959.4	-2,816.2	-283.7	1,424.8	0.68	-0.65	0.22
14,894.0	87.60	181.50	11,962.2	-2,910.2	-285.7	1,465.5	1.58	-1.49	0.53
14,988.0	89.10	183.00	11,964.9	-3,004.1	-289.4	1,507.8	2.26	1.60	1.60
15,081.0	87.60	183.00	11,967.5	-3,096.9	-294.3	1,550.7	1.61	-1.61	0.00
15,173.0	86.00	182.80	11,972.7	-3,188.6	-298.9	1,592.9	1.75	-1.74	-0.22
15,267.0	88.90	180.90	11,976.9	-3,282.5	-301.9	1,634.5	3.69	3.09	-2.02
15,359.0	91.40	181.10	11,976.6	-3,374.5	-303.5	1,674.1	2.73	2.72	0.22
15,452.0	90.90	182.00	11,974.8	-3,467.4	-306.1	1,714.9	1.11	-0.54	0.97

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Jennings 27 W0BO Fed Com 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3396 +27 @ 3423.0usft (Patterson 242)
Site:	Section 27-25S-32E Jennings 27 W0BO Fed Com 1H	MD Reference:	3396 +27 @ 3423.0usft (Patterson 242)
Well:	Jennings 27 W0BO Fed Com 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)
15,545.0	86.50	180.20	11,976.9	-3,560.3	-307.8	1,755.0	5.11	-4.73	-1.94
15,638.0	86.90	181.40	11,982.2	-3,653.2	-309.1	1,794.6	1.36	0.43	1.29
15,731.0	87.10	183.10	11,987.1	-3,746.0	-312.8	1,836.4	1.84	0.22	1.83
15,824.0	79.60	181.20	11,997.8	-3,838.2	-316.3	1,877.8	8.32	-8.06	-2.04
15,916.0	88.30	180.70	12,007.5	-3,929.6	-317.8	1,917.0	9.47	9.46	-0.54
16,009.0	89.50	180.10	12,009.3	-4,022.6	-318.4	1,956.1	1.44	1.29	-0.65
16,101.0	90.00	180.50	12,009.7	-4,114.6	-318.9	1,994.6	0.70	0.54	0.43
16,194.0	87.40	180.10	12,011.8	-4,207.5	-319.4	2,033.6	2.83	-2.80	-0.43
16,287.0	89.60	178.50	12,014.3	-4,300.5	-318.3	2,071.1	2.92	2.37	-1.72
16,379.0	92.10	180.80	12,012.9	-4,392.5	-317.7	2,108.6	3.69	2.72	2.50
16,472.0	92.30	181.00	12,009.3	-4,485.4	-319.2	2,148.5	0.30	0.22	0.22
16,565.0	92.10	181.70	12,005.8	-4,578.3	-321.3	2,188.9	0.78	-0.22	0.75
16,601.0	88.30	180.70	12,005.6	-4,614.3	-322.1	2,204.5	10.91	-10.56	-2.78
16,655.0	88.30	180.70	12,007.2	-4,668.2	-322.8	2,227.5	0.00	0.00	0.00

16655.0' MD Projected to Bit - PBHL Jennings 27 W0BO Fed Com 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
828.0	827.9	-4.3	0.1	828.0' MD Phoenix Gyro
16,655.0	12,007.2	-4,668.2	-322.8	16655.0' MD Projected to Bit



September 12, 2018

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

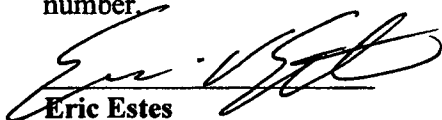
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Jennings 27 W0BO Federal Com #1H
Wolfcamp Y Sand (W0)
Lea County, New Mexico
API# 30-025-43342

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>
Derek Simpson	Original Hole	954ft. to 16,601ft.	05-09-18 to 05-29-18	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.


Eric 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\Jennings 27 W0BO Fed Com #1HM181063

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



September 12, 2018

Survey Certification Report

STATE OF TEXAS
COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of May 9, 2018, through May 29, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 954 feet to a depth of 16,601 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 Jennings 27 W0BO Fed Com #1H, API # 30-025-43342 in Lea 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.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric 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: Lea County N. M. Nad (83)
 Site: Section 27-25S-32E Jennings 27 W0BO Fed Cor
 Well: Jennings 27 W0BO Fed Com 1H
 Wellbore: Original Hole
 Design: Original Hole

Local Co-ordinate Reference: Well Jennings 27 W0BO Fed Com 1H
 TVD Reference: 3396 +27 @ 3423.0usft (Patterson 242)
 MD Reference: 3396 +27 @ 3423.0usft (Patterson 242)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Stryker_EDM

Project	Lea County N. M. 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	Section 27-25S-32E Jennings 27 W0BO Fed Com 1H				
Site Position:		Northing:	403,670.50 usft	Latitude:	32° 6' 28.697 N
From:	Map	Easting:	750,287.60 usft	Longitude:	103° 39' 30.563 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Jennings 27 W0BO Fed Com 1H					
Well Position	+N-S	0.0 usft	Northing:	403,670.50 usft	Latitude:	32° 6' 28.697 N
	+E-W	0.0 usft	Easting:	750,287.60 usft	Longitude:	103° 39' 30.563 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,396.0 usft

Wellbore	Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	3/29/2018	6.90	59.93	47,780.00098906	

Design	Original Hole				
Audit Notes:		Phase:	ACTUAL	Tie On Depth:	0.0
Version:	1.0				
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	245.53	



Microsoft
MWD Surveys



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Survey Program		Date 5/29/2018							
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description					
100.0	828.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline					
954.0	16,655.0	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 (°)		
828.0	1.46	193.19	827.9	-4.3	0.1	4.3	179.14	Tie-In	
954.0	1.70	224.00	953.9	-7.2	-1.6	7.3	192.59		
1,144.0	1.80	226.40	1,143.8	-11.3	-5.7	12.6	206.95		
1,335.0	1.80	218.40	1,334.7	-15.7	-9.8	18.5	211.90		
1,525.0	1.90	216.00	1,524.6	-20.6	-13.5	24.6	213.22		
1,715.0	2.20	208.40	1,714.5	-26.3	-17.0	31.4	212.94		
1,901.0	2.60	206.10	1,900.3	-33.2	-20.6	39.1	211.79		
2,088.0	3.10	209.80	2,087.1	-41.4	-25.0	48.4	211.08		
2,275.0	3.70	211.40	2,273.8	-51.0	-30.6	59.5	211.00		
2,460.0	4.30	214.80	2,458.3	-61.8	-37.7	72.4	211.40		
2,646.0	2.90	290.40	2,644.0	-65.9	-46.1	80.4	214.99		
2,832.0	3.30	293.30	2,829.8	-62.1	-55.4	83.2	221.75		
3,019.0	4.00	298.00	3,016.4	-56.9	-66.1	87.2	229.29		
3,205.0	3.30	29.50	3,202.1	-49.2	-69.2	84.9	234.60		
3,392.0	2.40	30.50	3,388.9	-41.1	-64.6	76.6	237.50		
3,578.0	2.30	19.50	3,574.7	-34.3	-61.4	70.3	240.82		
3,765.0	2.60	19.20	3,761.6	-26.7	-58.7	64.5	245.53		
3,951.0	3.10	26.10	3,947.3	-18.2	-55.1	58.0	251.71		
4,138.0	4.00	42.50	4,134.0	-8.9	-48.5	49.3	259.63		
4,324.0	3.00	63.70	4,319.6	-1.9	-39.7	39.8	267.22		
4,511.0	2.10	99.40	4,506.5	-0.3	-32.0	32.0	269.42		



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
4,548.0	2.10	100.80	4,541.4	-0.5	-30.7	30.7	268.98
4,603.0	1.90	107.80	4,598.4	-1.0	-28.8	28.8	267.95
4,790.0	0.00	287.50	4,785.4	-2.0	-25.8	25.9	265.62
4,883.0	2.90	293.20	4,878.3	-1.1	-28.0	28.0	267.85
4,976.0	4.00	301.00	4,971.2	1.5	-32.9	33.0	272.69
5,163.0	3.80	296.50	5,157.7	7.7	-44.1	44.7	279.87
5,350.0	3.90	291.10	5,344.3	12.7	-55.5	57.0	282.90
5,536.0	4.20	302.70	5,529.8	18.7	-67.2	69.7	285.54
5,722.0	3.80	299.00	5,715.4	25.3	-78.3	82.3	287.94
5,909.0	4.40	329.10	5,901.9	34.5	-87.4	94.0	291.54
6,095.0	4.40	327.30	6,087.4	46.6	-94.9	105.8	296.16
6,282.0	3.70	324.40	6,273.9	57.6	-102.3	117.4	299.37
6,469.0	3.60	321.40	6,460.5	67.1	-109.5	128.4	301.49
6,655.0	5.00	324.40	6,646.0	78.2	-117.9	141.5	303.58
6,841.0	4.70	321.90	6,831.3	90.8	-127.3	156.4	305.51
7,026.0	4.70	314.70	7,015.7	102.1	-137.3	171.1	306.63
7,213.0	4.60	314.10	7,202.1	112.7	-148.2	186.2	307.26
7,400.0	4.10	308.10	7,388.6	122.1	-158.8	200.3	307.55
7,586.0	3.50	301.60	7,574.2	129.1	-168.9	212.6	307.40
7,772.0	4.00	308.40	7,759.8	136.1	-178.8	224.7	307.29
7,958.0	3.70	306.10	7,945.3	143.7	-188.7	237.2	307.29
8,145.0	4.30	315.20	8,131.9	152.2	-198.5	250.2	307.48
8,331.0	3.70	311.40	8,317.4	161.2	-208.0	263.1	307.77
8,517.0	3.20	307.00	8,503.1	168.2	-216.6	274.3	307.84
8,704.0	4.10	314.00	8,689.7	176.0	-225.6	286.1	307.97
8,891.0	3.30	306.40	8,876.3	183.9	-234.7	298.2	308.07
9,078.0	3.50	312.60	9,063.0	190.9	-243.3	309.2	308.13



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Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (")
9,264.0	3.70	308.50	9,248.6	198.5	-252.1	320.9	308.21
9,450.0	3.30	304.80	9,434.3	205.3	-261.2	332.3	308.16
9,636.0	2.90	296.90	9,620.0	210.5	-269.8	342.2	307.96
9,822.0	4.40	300.50	9,805.6	216.2	-280.2	353.9	307.66
10,008.0	2.90	309.10	9,991.2	222.8	-290.0	365.7	307.54
10,195.0	2.80	307.40	10,178.0	228.6	-297.3	375.0	307.56
10,382.0	2.60	287.00	10,364.8	232.6	-305.0	383.5	307.33
10,568.0	3.60	285.00	10,550.5	235.3	-314.6	392.9	306.80
10,755.0	3.20	284.10	10,737.2	238.1	-325.4	403.2	306.20
10,941.0	3.60	281.00	10,922.9	240.5	-336.1	413.3	305.58
11,127.0	1.80	274.70	11,108.7	241.9	-344.8	421.1	305.05
11,314.0	2.00	296.60	11,295.6	243.6	-350.6	426.9	304.79
11,378.5	1.94	297.43	11,360.0	244.6	-352.6	429.1	304.75
B.B. Jennings 27 W0BO Fed Com 1H							
11,425.0	1.90	297.90	11,406.5	245.3	-354.0	430.7	304.72
11,458.0	1.80	291.00	11,439.5	245.8	-354.9	431.7	304.70
11,489.0	1.80	199.00	11,470.5	245.5	-355.5	432.1	304.62
11,520.0	6.10	174.40	11,501.4	243.4	-355.5	430.9	304.39
11,551.0	11.10	169.10	11,532.0	238.8	-354.8	427.7	303.94
11,582.0	16.80	169.20	11,562.1	231.5	-353.4	422.5	303.22
11,613.0	20.50	170.30	11,591.5	221.7	-351.7	415.7	302.23
11,645.0	23.10	171.30	11,621.2	210.0	-349.8	408.0	300.98
11,675.0	26.70	172.10	11,648.4	197.5	-348.0	400.1	299.58
11,706.0	30.50	173.40	11,675.6	182.8	-346.1	391.4	297.84
11,737.0	33.50	174.00	11,701.9	166.4	-344.3	382.4	295.80
11,768.0	37.30	175.10	11,727.2	148.6	-342.6	373.4	293.44
11,799.0	40.90	176.30	11,751.2	129.1	-341.1	364.7	290.72



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,830.0	44.30	178.90	11,774.0	108.1	-339.9	356.7	287.65
11,881.0	47.30	177.40	11,795.6	85.9	-338.8	349.5	284.23
11,892.0	50.90	178.10	11,815.9	62.5	-337.9	343.6	280.48
11,923.0	54.40	178.90	11,834.7	37.9	-337.2	339.4	276.41
11,954.0	57.80	179.30	11,852.0	12.2	-338.8	337.1	272.07
11,985.0	61.50	179.30	11,867.7	-14.6	-336.5	336.8	267.52
12,016.0	65.70	178.60	11,881.5	-42.3	-336.0	336.7	262.82
12,047.0	69.50	178.80	11,893.3	-71.0	-335.3	342.8	258.05
12,049.9	69.85	178.66	11,894.3	-73.7	-335.3	343.3	257.60
LP Jennings 27 W0BO Fed Com 1H							
12,078.0	73.20	179.40	11,903.2	-100.4	-334.9	349.6	253.32
12,088.0	74.40	179.40	11,906.0	-110.0	-334.8	352.4	251.82
12,134.0	78.90	180.80	11,916.6	-154.7	-334.8	368.8	245.20
12,165.0	81.20	180.40	11,922.0	-185.2	-335.1	382.8	241.06
12,196.0	81.30	180.20	11,926.7	-215.9	-335.2	398.7	237.22
12,227.0	83.80	179.80	11,930.7	-246.6	-335.2	416.2	233.66
12,257.0	84.60	179.50	11,933.7	-276.4	-335.0	434.4	230.47
12,319.0	88.10	179.30	11,937.7	-338.3	-334.4	475.7	224.67
12,381.0	87.80	179.80	11,939.9	-400.3	-333.9	521.3	219.83
12,474.0	87.30	179.30	11,943.9	-493.2	-333.2	595.2	214.04
12,567.0	90.50	180.30	11,945.6	-586.1	-332.8	674.1	209.59
12,660.0	91.10	180.10	11,944.3	-679.1	-333.2	756.5	206.13
12,753.0	89.00	180.50	11,944.3	-772.1	-333.7	841.1	203.37
12,846.0	88.70	179.90	11,946.1	-865.1	-334.0	927.3	201.11
12,839.0	89.90	179.40	11,947.3	-958.1	-333.4	1,014.5	199.19
13,032.0	90.40	178.90	11,947.0	-1,051.1	-332.0	1,102.3	197.53
13,125.0	89.70	177.50	11,946.9	-1,144.0	-329.1	1,190.4	196.05



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
 Project: Lea County N. M. Nad (83)
 Site: Section 27-25S-32E Jennings 27 W0BO Fed Cor
 Well: Jennings 27 W0BO Fed Com 1H
 Wellbore: Original Hole
 Design: Original Hole

Local Co-ordinate Reference: Well Jennings 27 W0BO Fed Com 1H
 TVD Reference: 3396 +27 @ 3423.0usft (Patterson 242)
 MD Reference: 3396 +27 @ 3423.0usft (Patterson 242)
 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 (°)
13,218.0	88.00	176.40	11,948.8	-1,236.6	-324.2	1,278.7	194.69
13,311.0	92.80	175.60	11,948.3	-1,329.6	-317.7	1,387.1	193.44
13,404.0	88.50	174.90	11,947.4	-1,422.3	-310.0	1,455.7	192.30
13,497.0	93.10	176.40	11,946.1	-1,515.0	-302.9	1,545.0	191.31
13,590.0	92.30	176.20	11,941.7	-1,607.7	-296.9	1,634.9	190.46
13,684.0	91.30	175.70	11,938.8	-1,701.4	-290.3	1,726.0	189.68
13,777.0	91.20	175.60	11,936.8	-1,794.1	-283.2	1,816.3	188.97
13,871.0	92.00	180.20	11,934.1	-1,888.0	-279.8	1,908.6	188.43
13,963.0	88.70	179.80	11,933.6	-1,980.0	-279.8	1,999.6	188.04
14,056.0	87.80	179.90	11,936.4	-2,072.9	-279.6	2,091.7	187.68
14,149.0	84.70	178.50	11,942.5	-2,165.7	-278.3	2,183.5	187.32
14,243.0	87.20	179.40	11,949.1	-2,259.4	-276.5	2,276.3	186.98
14,337.0	88.70	181.10	11,952.5	-2,353.4	-277.0	2,369.6	186.71
14,429.0	89.80	181.80	11,953.7	-2,446.3	-279.3	2,461.2	186.52
14,522.0	89.50	180.50	11,954.3	-2,538.3	-281.2	2,553.8	186.32
14,615.0	88.00	180.00	11,956.3	-2,631.3	-281.6	2,646.3	186.11
14,707.0	89.60	180.80	11,958.2	-2,723.3	-282.2	2,737.8	185.92
14,800.0	89.00	181.00	11,959.4	-2,816.2	-283.7	2,830.5	185.75
14,894.0	87.60	181.50	11,962.2	-2,910.2	-285.7	2,924.2	185.61
14,988.0	89.10	183.00	11,964.9	-3,004.1	-289.4	3,018.0	185.50
15,081.0	87.60	183.00	11,967.5	-3,096.9	-294.3	3,110.8	185.43
15,173.0	88.00	182.80	11,972.7	-3,188.6	-298.9	3,202.6	185.36
15,267.0	88.90	180.90	11,978.9	-3,282.5	-301.9	3,296.3	185.28
15,359.0	91.40	181.10	11,976.6	-3,374.5	-303.5	3,388.1	185.14
15,452.0	90.90	182.00	11,974.8	-3,467.4	-306.1	3,480.9	185.04
15,545.0	88.50	180.20	11,976.9	-3,560.3	-307.8	3,573.6	184.94
15,638.0	86.90	181.40	11,982.2	-3,653.2	-309.1	3,666.2	184.84



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 Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,731.0	87.10	183.10	11,987.1	-3,746.0	-312.8	3,759.0	184.77
15,824.0	79.60	181.20	11,997.8	-3,838.2	-316.3	3,851.2	184.71
15,916.0	88.30	180.70	12,007.5	-3,929.6	-317.8	3,942.4	184.62
16,009.0	89.50	180.10	12,009.3	-4,022.6	-318.4	4,035.2	184.53
16,101.0	90.00	180.50	12,009.7	-4,114.6	-318.9	4,126.9	184.43
16,194.0	87.40	180.10	12,011.8	-4,207.5	-319.4	4,219.6	184.34
16,287.0	88.60	178.50	12,014.3	-4,300.5	-318.3	4,312.2	184.23
16,379.0	92.10	180.80	12,012.9	-4,392.5	-317.7	4,403.9	184.14
16,472.0	92.30	181.00	12,009.3	-4,485.4	-319.2	4,496.7	184.07
16,565.0	92.10	181.70	12,005.8	-4,578.3	-321.3	4,589.5	184.01
16,601.0	88.30	180.70	12,005.6	-4,614.3	-322.1	4,625.5	183.99
16,655.0	88.30	180.70	12,007.2	-4,668.2	-322.8	4,679.4	183.96

16655.0' MD Projected to Bit - PBHL Jennings 27 W0BO Fed Com 1H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
16,655.0	12,007.2	-4,668.2	-322.8	16655.0' MD Projected to Bit