

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

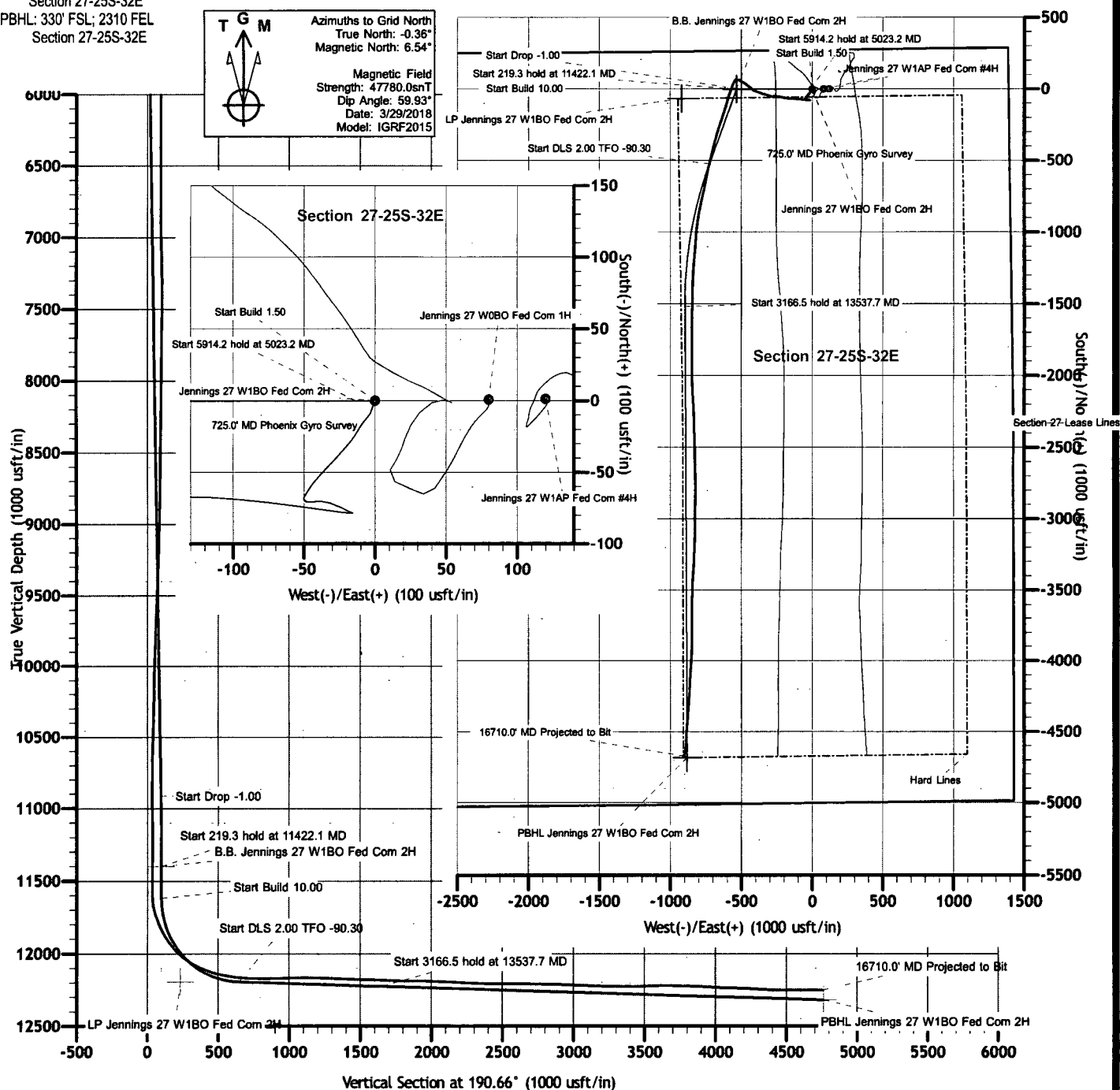
GEODETTIC ZONE: New Mexico Eastern Zone										
3395 +27 @ 3422.0usft (Patterson 242)										
GROUND ELEVATION: 3395.0										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
	0.0	0.0	403669.60	750207.60	32° 6' 28.693 N	103° 39' 31.493 W				
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	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	5023.2	4.85	270.00	5022.8	0.0	-13.7	1.50	270.00	2.5	
4	10937.3	4.85	270.00	10915.8	0.0	-513.5	0.00	0.00	95.0	
5	11422.1	0.00	0.00	11400.0	0.0	-534.0	1.00	180.00	98.8	B.B. Jennings 27 W1BO Fed Com 2H
6	11641.4	0.00	0.00	11619.3	0.0	-534.0	0.00	0.00	98.8	
7	12524.3	88.29	200.00	12192.0	-522.3	-724.1	10.00	200.00	647.3	
8	13537.7	88.29	179.72	12222.5	-1515.1	-896.6	2.00	-90.30	1654.9	
9	16704.2	88.29	179.72	12317.0	-4680.1	-881.3	0.00	0.00	4762.4	PBHL Jennings 27 W1BO Fed Com 2H

SHL: 275' FNL: 1390' FEL

Section 27-25S-32E

PBHL; 330' FSL; 2310 FEL

Section 27-25S-32E





Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 27-25S-32E Jennings 27 W1BO Fed Com 2H

Jennings 27 W1BO Fed Com 2H

Original Hole

Design: Original Hole

HOBBS OCD
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Standard Survey Report

21 June, 2018



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Jennings 27 W1BO Fed Com 2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3395 +27 @ 3422.0usft (Patterson 242)
Site:	Section 27-25S-32E Jennings 27 W1BO Fed Com 2H	MD Reference:	3395 +27 @ 3422.0usft (Patterson 242)
Well:	Jennings 27 W1BO Fed Com 2H	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 W1BO Fed Com 2H			
Site Position:		Northing:	403,669.60 usft	Latitude:	32° 6' 28.693 N
From:	Map	Easting:	750,207.60 usft	Longitude:	103° 39' 31.493 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Jennings 27 W1BO Fed Com 2H					
Well Position	+N/-S	0.0 usft	Northing:	403,669.60 usft	Latitude:	32° 6' 28.693 N
	+E/-W	0.0 usft	Easting:	750,207.60 usft	Longitude:	103° 39' 31.493 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,395.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/29/2018	6.90	59.93	47,779.98039210

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	193.05	

Survey Program	Date 6/21/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	725.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline	
848.0	16,710.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM	

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	0.16	342.96	100.0	0.1	0.0	-0.1	0.16	0.16	0.00
200.0	0.10	56.53	200.0	0.3	0.0	-0.3	0.16	-0.06	73.57
300.0	0.38	206.08	300.0	0.1	-0.1	0.0	0.47	0.28	149.55
400.0	0.83	198.04	400.0	-0.9	-0.5	1.0	0.46	0.45	-8.04
500.0	1.19	197.09	500.0	-2.6	-1.0	2.8	0.36	0.36	-0.95
600.0	1.33	200.58	600.0	-4.7	-1.7	4.9	0.16	0.14	3.49
700.0	1.41	206.32	699.9	-6.9	-2.6	7.3	0.16	0.08	5.74
725.0	0.73	176.89	724.9	-7.3	-2.8	7.7	3.41	-2.72	-117.72

Stryker Directional Survey Report



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Project:	Lea County N. M. Nad (83)	TVD Reference:	3395 +27 @ 3422.0usft (Patterson 242)
Site:	Section 27-25S-32E Jennings 27 W1BO Fed Com 2H	MD Reference:	3395 +27 @ 3422.0usft (Patterson 242)
Well:	Jennings 27 W1BO Fed Com 2H	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)
725.0' MD Phoenix Gyro Survey									
848.0	1.40	216.40	847.9	-9.3	-3.6	9.9	0.78	0.54	32.12
1,038.0	1.10	221.10	1,037.9	-12.5	-6.2	13.6	0.17	-0.16	2.47
1,228.0	1.10	216.70	1,227.8	-15.4	-8.5	16.9	0.04	0.00	-2.32
1,418.0	1.40	211.90	1,417.8	-18.8	-10.8	20.8	0.17	0.16	-2.53
1,610.0	1.60	212.60	1,609.7	-23.1	-13.5	25.5	0.10	0.10	0.36
1,796.0	1.60	216.70	1,795.6	-27.3	-16.4	30.3	0.06	0.00	2.20
1,983.0	2.00	221.60	1,982.5	-31.9	-20.2	35.6	0.23	0.21	2.62
2,169.0	2.70	221.40	2,168.4	-37.6	-25.2	42.3	0.38	0.38	-0.11
2,355.0	3.20	224.50	2,354.1	-44.6	-31.8	50.6	0.28	0.27	1.67
2,541.0	3.90	221.40	2,539.8	-53.0	-39.6	60.6	0.39	0.38	-1.67
2,727.0	1.20	213.40	2,725.6	-59.4	-44.8	68.0	1.46	-1.45	-4.30
2,916.0	1.20	213.40	2,914.5	-62.7	-47.0	71.7	0.00	0.00	0.00
3,100.0	1.20	212.70	3,098.5	-65.9	-49.1	75.3	0.01	0.00	-0.38
3,287.0	0.70	169.00	3,285.5	-68.7	-50.0	78.2	0.45	-0.27	-23.37
3,473.0	0.90	105.10	3,471.5	-70.2	-48.3	79.3	0.46	0.11	-34.35
3,660.0	1.20	90.00	3,658.4	-70.6	-45.0	78.9	0.22	0.16	-8.07
3,846.0	0.80	69.60	3,844.4	-70.1	-41.8	77.7	0.28	-0.22	-10.97
4,033.0	1.60	95.90	4,031.4	-69.9	-38.0	76.7	0.51	0.43	14.06
4,219.0	2.30	103.00	4,217.2	-71.0	-31.7	76.4	0.40	0.38	3.82
4,405.0	3.60	118.30	4,403.0	-74.6	-23.0	77.9	0.81	0.70	8.23
4,526.0	1.80	115.60	4,523.9	-77.3	-17.9	79.3	1.49	-1.49	-2.23
4,621.0	1.00	100.80	4,618.8	-78.1	-15.7	79.6	0.92	-0.84	-15.58
4,684.0	1.50	260.40	4,681.8	-78.3	-16.0	79.9	3.91	0.79	253.33
4,777.0	6.50	277.20	4,774.6	-77.8	-22.4	80.9	5.47	5.38	18.06
4,870.0	6.50	278.60	4,867.0	-76.4	-32.9	81.8	0.17	0.00	1.51
5,057.0	6.40	277.20	5,052.8	-73.5	-53.7	83.7	0.10	-0.05	-0.75
5,244.0	6.40	276.70	5,238.6	-71.0	-74.4	85.9	0.03	0.00	-0.27
5,430.0	6.50	275.80	5,423.5	-68.7	-95.1	88.4	0.08	0.05	-0.48
5,616.0	6.30	272.10	5,608.3	-67.3	-115.8	91.7	0.25	-0.11	-1.99
5,803.0	6.20	270.60	5,794.2	-66.8	-136.2	95.8	0.10	-0.05	-0.80
5,989.0	5.80	270.00	5,979.2	-66.7	-155.6	100.1	0.22	-0.22	-0.32
6,175.0	6.00	283.00	6,164.2	-64.5	-174.5	102.2	0.72	0.11	6.99
6,362.0	5.70	283.60	6,350.2	-60.1	-193.0	102.2	0.16	-0.16	0.32
6,549.0	5.30	280.80	6,536.3	-56.3	-210.5	102.4	0.26	-0.21	-1.50
6,735.0	5.10	278.10	6,721.6	-53.5	-227.2	103.5	0.17	-0.11	-1.45
6,920.0	5.20	275.00	6,905.8	-51.7	-243.7	105.3	0.16	0.05	-1.68
7,107.0	5.50	273.00	7,092.0	-50.4	-261.0	108.1	0.19	0.16	-1.07
7,294.0	5.50	266.40	7,278.2	-50.5	-278.9	112.2	0.34	0.00	-3.53
7,480.0	5.70	288.10	7,463.3	-48.2	-296.6	114.0	1.14	0.11	11.67
7,665.0	5.10	288.20	7,647.5	-42.8	-313.2	112.4	0.32	-0.32	0.05
7,852.0	4.80	286.70	7,833.8	-38.0	-328.5	111.2	0.17	-0.16	-0.80

Stryker Directional Survey Report



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Well:	Jennings 27 W1BO Fed Com 2H	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)	Buid Rate (°/100usft)	Turn Rate (°/100usft)
8,039.0	4.30	283.30	8,020.2	-34.1	-342.9	110.6	0.30	-0.27	-1.82
8,226.0	5.60	291.20	8,206.5	-29.2	-358.2	109.3	0.78	0.70	4.22
8,412.0	5.20	291.40	8,391.7	-22.8	-374.5	106.8	0.22	-0.22	0.11
8,598.0	4.50	288.70	8,577.0	-17.4	-389.3	104.9	0.40	-0.38	-1.45
8,786.0	4.20	289.90	8,764.5	-12.7	-402.7	103.3	0.17	-0.16	0.64
8,972.0	3.60	303.30	8,950.0	-7.2	-414.0	100.5	0.58	-0.32	7.20
9,159.0	3.60	319.10	9,136.7	0.5	-422.8	95.0	0.53	0.00	8.45
9,345.0	3.10	302.50	9,322.3	7.6	-430.8	89.9	0.58	-0.27	-8.92
9,531.0	4.50	308.50	9,507.9	14.8	-440.8	85.1	0.78	0.75	3.23
9,717.0	4.60	305.50	9,693.3	23.7	-452.6	79.1	0.14	0.05	-1.61
9,903.0	4.10	309.60	9,878.8	32.3	-463.8	73.3	0.32	-0.27	2.20
10,090.0	3.70	307.00	10,065.4	40.2	-473.7	67.8	0.23	-0.21	-1.39
10,276.0	3.70	291.10	10,251.0	45.9	-484.1	64.6	0.55	0.00	-8.55
10,463.0	3.90	297.60	10,437.6	51.1	-495.4	62.1	0.25	0.11	3.48
10,649.0	3.60	320.60	10,623.2	58.5	-504.7	57.0	0.82	-0.16	12.37
10,835.0	2.70	291.70	10,808.9	64.6	-512.5	52.7	0.97	-0.48	-15.54
11,021.0	3.60	248.30	10,994.7	64.1	-522.0	55.4	1.33	0.48	-23.33
11,208.0	1.30	276.90	11,181.5	62.2	-529.5	59.0	1.36	-1.23	15.29
11,395.0	1.60	324.90	11,368.4	64.6	-533.1	57.5	0.65	0.16	25.67
11,425.6	1.61	314.56	11,399.0	65.2	-533.7	57.0	0.94	0.03	-33.78
B.B. Jennings 27 W1BO Fed Com 2H									
11,550.0	2.10	280.80	11,523.4	66.9	-537.2	56.1	0.94	0.40	-27.14
11,637.0	2.90	257.70	11,610.3	66.7	-540.9	57.1	1.46	0.92	-26.55
11,668.0	6.00	223.00	11,641.2	65.4	-542.8	58.9	12.82	10.00	-111.94
11,699.0	10.90	211.90	11,671.8	61.7	-545.4	63.1	16.59	15.81	-35.81
11,730.0	15.70	207.70	11,702.0	55.5	-548.9	69.9	15.78	15.48	-13.55
11,761.0	18.90	205.60	11,731.6	47.2	-553.0	78.9	10.52	10.32	-6.77
11,792.0	21.60	203.70	11,760.7	37.5	-557.5	89.4	8.96	8.71	-6.13
11,823.0	24.10	201.40	11,789.2	26.4	-562.1	101.2	8.56	8.06	-7.42
11,853.0	26.50	199.50	11,816.4	14.3	-566.6	114.0	8.44	8.00	-6.33
11,885.0	28.70	199.40	11,844.7	0.4	-571.5	128.7	6.88	6.88	-0.31
11,916.0	31.40	198.60	11,871.6	-14.3	-576.6	144.1	8.80	8.71	-2.58
11,946.0	35.30	197.80	11,896.6	-30.0	-581.7	160.6	13.08	13.00	-2.67
11,977.0	37.90	197.50	11,921.5	-47.6	-587.3	179.0	8.41	8.39	-0.97
12,008.0	39.40	196.30	11,945.7	-66.1	-592.9	198.3	5.41	4.84	-3.87
12,040.0	42.30	196.50	11,969.9	-86.2	-598.8	219.2	9.07	9.06	0.63
12,071.0	46.80	196.60	11,992.0	-107.0	-605.0	240.9	14.52	14.52	0.32
12,102.0	50.90	197.60	12,012.4	-129.3	-611.9	264.2	13.45	13.23	3.23
12,133.0	53.70	198.10	12,031.3	-152.7	-619.4	288.6	9.12	9.03	1.61
12,164.0	56.60	198.00	12,049.1	-176.9	-627.3	313.9	9.36	9.35	-0.32
12,195.0	59.30	198.70	12,065.5	-201.8	-635.6	340.1	8.92	8.71	2.26
12,223.8	62.09	198.70	12,079.6	-225.6	-643.6	365.1	9.68	9.68	0.00
LP Jennings 27 W1BO Fed Com 2H									

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Well:	Jennings 27 W1BO Fed Com 2H	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)
12,226.0	62.30	198.70	12,080.6	-227.4	-644.3	367.0	9.68	9.68	0.00
12,257.0	65.10	198.10	12,094.4	-253.8	-653.0	394.7	9.20	9.03	-1.94
12,283.0	67.20	197.20	12,104.9	-276.5	-660.2	418.4	8.68	8.08	-3.46
12,319.0	70.40	196.70	12,117.9	-308.6	-670.0	451.9	8.98	8.89	-1.39
12,381.0	76.60	194.50	12,135.5	-365.8	-686.0	511.2	10.56	10.00	-3.55
12,473.0	82.50	194.00	12,152.2	-453.4	-708.2	601.7	6.44	6.41	-0.54
12,566.0	84.20	193.60	12,162.9	-543.1	-730.3	694.0	1.88	1.83	-0.43
12,660.0	88.00	190.70	12,169.3	-634.8	-750.0	787.8	5.08	4.04	-3.09
12,752.0	92.20	192.80	12,169.2	-724.9	-768.7	879.7	5.10	4.57	2.28
12,846.0	91.30	192.10	12,166.3	-816.6	-789.0	973.7	1.21	-0.96	-0.74
12,939.0	92.30	188.60	12,163.4	-908.0	-805.7	1,066.5	3.91	1.08	-3.76
13,031.0	89.20	184.70	12,162.2	-999.4	-816.3	1,157.9	5.41	-3.37	-4.24
13,124.0	87.80	185.00	12,164.6	-1,092.0	-824.2	1,249.9	1.54	-1.51	0.32
13,218.0	88.00	185.00	12,168.1	-1,185.6	-832.4	1,342.9	0.21	0.21	0.00
13,311.0	87.80	182.80	12,171.5	-1,278.3	-838.7	1,434.7	2.37	-0.22	-2.37
13,404.0	87.50	181.20	12,175.3	-1,371.2	-841.9	1,525.9	1.75	-0.32	-1.72
13,497.0	89.80	181.00	12,177.5	-1,464.1	-843.7	1,616.8	2.48	2.47	-0.22
13,590.0	86.40	182.50	12,180.6	-1,557.0	-846.6	1,707.9	4.00	-3.66	1.61
13,684.0	89.90	179.90	12,183.6	-1,650.9	-848.5	1,799.9	4.64	3.72	-2.77
13,777.0	88.90	179.10	12,184.6	-1,743.9	-847.7	1,890.3	1.38	-1.08	-0.86
13,870.0	89.50	180.80	12,185.9	-1,836.9	-847.6	1,980.8	1.94	0.65	1.83
13,963.0	87.30	180.70	12,188.5	-1,929.8	-848.8	2,071.7	2.37	-2.37	-0.11
14,056.0	87.00	177.70	12,193.1	-2,022.7	-847.5	2,161.8	3.24	-0.32	-3.23
14,149.0	86.90	177.10	12,198.0	-2,115.5	-843.3	2,251.3	0.65	-0.11	-0.65
14,243.0	88.80	177.40	12,201.6	-2,209.3	-838.8	2,341.6	2.05	2.02	0.32
14,336.0	88.00	177.30	12,204.2	-2,302.2	-834.5	2,431.1	0.87	-0.86	-0.11
14,429.0	90.60	179.00	12,205.3	-2,395.1	-831.5	2,521.0	3.34	2.80	1.83
14,522.0	90.20	178.90	12,204.6	-2,488.1	-829.8	2,611.2	0.44	-0.43	-0.11
14,615.0	89.50	178.50	12,204.9	-2,581.0	-827.7	2,701.3	0.87	-0.75	-0.43
14,707.0	88.80	178.90	12,206.2	-2,673.0	-825.6	2,790.4	0.88	-0.76	0.43
14,800.0	87.90	178.70	12,208.9	-2,766.0	-823.7	2,880.5	0.99	-0.97	-0.22
14,894.0	87.80	181.50	12,212.5	-2,859.9	-823.8	2,972.0	2.98	-0.11	2.98
14,987.0	88.70	181.60	12,215.3	-2,952.8	-826.4	3,063.1	0.97	0.97	0.11
15,081.0	85.80	178.70	12,219.8	-3,046.7	-826.6	3,154.6	4.36	-3.09	-3.09
15,173.0	90.00	182.00	12,223.2	-3,138.6	-827.2	3,244.3	5.80	4.57	3.59
15,266.0	89.10	182.60	12,223.9	-3,231.5	-830.9	3,335.7	1.16	-0.97	0.65
15,359.0	90.20	183.10	12,224.5	-3,324.4	-835.5	3,427.2	1.30	1.18	0.54
15,452.0	93.30	183.70	12,221.6	-3,417.2	-841.0	3,518.8	3.40	3.33	0.65
15,545.0	91.90	181.40	12,217.4	-3,510.0	-845.2	3,610.1	2.89	-1.51	-2.47
15,638.0	88.00	181.00	12,217.5	-3,602.9	-847.1	3,701.1	4.22	-4.19	-0.43
15,731.0	88.30	180.50	12,220.5	-3,695.9	-848.3	3,792.0	0.63	0.32	-0.54
15,824.0	87.50	179.90	12,223.9	-3,788.8	-848.7	3,882.6	1.08	-0.86	-0.65
15,916.0	86.40	179.90	12,228.8	-3,880.7	-848.5	3,972.0	1.20	-1.20	0.00

Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Jennings 27 W1BO Fed Com 2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3395 +27 @ 3422.0usft (Patterson 242)
Site:	Section 27-25S-32E Jennings 27 W1BO Fed Com 2H	MD Reference:	3395 +27 @ 3422.0usft (Patterson 242)
Well:	Jennings 27 W1BO Fed Com 2H	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)
16,009.0	88.00	183.10	12,233.3	-3,973.5	-850.9	4,063.0	3.84	1.72	3.44
16,100.0	88.60	184.00	12,236.0	-4,064.3	-856.6	4,152.7	1.19	0.66	0.99
16,194.0	87.70	183.30	12,239.1	-4,158.1	-862.5	4,245.4	1.21	-0.96	-0.74
16,286.0	86.80	183.30	12,243.5	-4,249.8	-867.8	4,336.0	0.98	-0.98	0.00
16,379.0	87.00	183.70	12,248.5	-4,342.5	-873.5	4,427.6	0.48	0.22	0.43
16,472.0	90.50	184.60	12,250.6	-4,435.2	-880.2	4,519.4	3.89	3.76	0.97
16,565.0	90.00	184.20	12,250.1	-4,527.9	-887.4	4,611.4	0.69	-0.54	-0.43
16,710.0	90.00	184.20	12,250.1	-4,672.5	-898.0	4,754.6	0.00	0.00	0.00

16710.0' MD Projected to Bit - PBHL Jennings 27 W1BO Fed Com 2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
725.0	724.9	-7.3	-2.8	725.0' MD Phoenix Gyro Survey
16,710.0	12,250.1	-4,672.5	-898.0	16710.0' 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

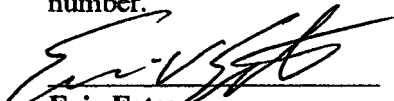
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Jennings 27 W1BO Federal Com #2H
Wolfcamp Y Sand (W0)
Lea County, New Mexico
API# 30-025-44647

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	848ft. to 16,565ft.	06-02-18 to 06-21-18	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 W1BO Fed Com #2H\M181073

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 June 2, 2018, through June 21, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 848 feet to a depth of 16,565 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 W1BO Fed Com #2H, API # 30-025-44647 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.

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



Stryker Directional MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 27-25S-32E Jennings 27 W1BO Fed Cor
Well: Jennings 27 W1BO Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 27 W1BO Fed Com 2H
TVD Reference: 3395 +27 @ 3422.0usft (Patterson 242)
MD Reference: 3395 +27 @ 3422.0usft (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 W1BO Fed Com 2H		
Site Position:		Northing:	403,669.60 usft
From:	Map	Easting:	750,207.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 28.693 N
		Longitude:	103° 39' 31.493 W
		Grid Convergence:	0.36 "

Well	Jennings 27 W1BO Fed Com 2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 6' 28.693 N
		Longitude:	103° 39' 31.493 W
		Ground Level:	3,395.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	3/29/2018	(°)
			6.90
			Dip Angle
			(°)
			59.93
			Field Strength
			(nT)
			47,779.96039210

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			193.05



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Database: Stryker_EDM

Survey Program **Date** 6/21/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	725.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
848.0	16,710.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
725.0	0.73	176.89	724.9	2,597.1	-7.3	-2.8	7.8	200.81	Tie-In
848.0	1.40	216.40	847.9	2,574.1	-9.3	-3.6	10.0	201.30	
1,038.0	1.10	221.10	1,037.9	2,384.1	-12.5	-6.2	14.0	206.31	
1,228.0	1.10	216.70	1,227.8	2,194.2	-15.4	-8.5	17.6	208.91	
1,418.0	1.40	211.90	1,417.8	2,004.2	-18.8	-10.8	21.7	209.88	
1,610.0	1.60	212.60	1,609.7	1,812.3	-23.1	-13.5	26.7	210.33	
1,796.0	1.60	216.70	1,795.6	1,626.4	-27.3	-16.4	31.9	211.03	
1,983.0	2.00	221.60	1,982.5	1,439.5	-31.9	-20.2	37.7	212.33	
2,169.0	2.70	221.40	2,168.4	1,253.6	-37.6	-25.2	45.3	213.87	
2,355.0	3.20	224.50	2,354.1	1,067.9	-44.8	-31.8	54.7	215.47	
2,541.0	3.90	221.40	2,539.8	882.2	-53.0	-39.6	66.2	216.74	
2,727.0	1.20	213.40	2,725.6	696.4	-59.4	-44.8	74.4	217.05	
2,916.0	1.20	213.40	2,914.5	507.5	-62.7	-47.0	78.4	216.87	
3,100.0	1.20	212.70	3,098.5	323.5	-65.9	-49.1	82.2	216.69	
3,287.0	0.70	169.00	3,285.5	136.5	-68.7	-50.0	84.9	216.03	
3,473.0	0.90	105.10	3,471.5	-49.5	-70.2	-48.3	85.2	214.55	
3,660.0	1.20	90.00	3,658.4	-236.4	-70.6	-45.0	83.7	212.50	
3,846.0	0.80	69.60	3,844.4	-422.4	-70.1	-41.8	81.6	210.79	
4,033.0	1.60	95.90	4,031.4	-609.4	-69.9	-38.0	79.6	208.50	
4,219.0	2.30	103.00	4,217.2	-795.2	-71.0	-31.7	77.8	204.08	
4,405.0	3.60	118.30	4,403.0	-981.0	-74.6	-23.0	78.1	197.10	



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
4,526.0	1.80	115.60	4,523.9	-1,101.9	-77.3	-17.9	79.3	193.05
4,621.0	1.00	100.80	4,618.8	-1,196.8	-78.1	-15.7	79.6	191.41
4,684.0	1.50	260.40	4,681.8	-1,259.8	-78.3	-16.0	79.9	191.56
4,777.0	6.50	277.20	4,774.6	-1,352.6	-77.8	-22.4	81.0	196.09
4,870.0	6.50	278.60	4,867.0	-1,445.0	-76.4	-32.9	83.2	203.28
5,057.0	6.40	277.20	5,052.8	-1,630.8	-73.5	-53.7	91.0	216.14
5,244.0	6.40	276.70	5,238.6	-1,816.6	-71.0	-74.4	102.8	226.33
5,430.0	6.50	275.80	5,423.5	-2,001.5	-68.7	-95.1	117.4	234.16
5,616.0	6.30	272.10	5,608.3	-2,186.3	-67.3	-115.8	133.9	239.85
5,803.0	6.20	270.60	5,794.2	-2,372.2	-66.8	-136.2	151.7	243.87
5,989.0	5.80	270.00	5,979.2	-2,557.2	-66.7	-155.8	169.3	246.80
6,175.0	6.00	283.00	6,164.2	-2,742.2	-64.5	-174.5	186.0	249.71
6,362.0	5.70	283.60	6,350.2	-2,928.2	-60.1	-193.0	202.2	252.70
6,549.0	5.30	280.80	6,536.3	-3,114.3	-56.3	-210.5	217.9	255.02
6,735.0	5.10	278.10	6,721.6	-3,299.6	-53.5	-227.2	233.4	256.74
6,920.0	5.20	275.00	6,905.8	-3,483.8	-51.7	-243.7	249.1	258.03
7,107.0	5.50	273.00	7,092.0	-3,670.0	-50.4	-261.0	265.9	259.06
7,294.0	5.50	266.40	7,278.2	-3,856.2	-50.5	-278.9	283.5	259.73
7,480.0	5.70	288.10	7,463.3	-4,041.3	-48.2	-296.6	300.5	260.76
7,665.0	5.10	288.20	7,647.5	-4,225.5	-42.8	-313.2	316.1	262.22
7,852.0	4.80	286.70	7,833.8	-4,411.8	-38.0	-328.5	330.7	263.41
8,039.0	4.30	283.30	8,020.2	-4,598.2	-34.1	-342.9	344.6	264.32
8,226.0	5.60	291.20	8,206.5	-4,784.5	-29.2	-358.2	359.4	265.34
8,412.0	5.20	291.40	8,391.7	-4,969.7	-22.8	-374.5	375.2	266.51
8,598.0	4.50	288.70	8,577.0	-5,155.0	-17.4	-389.3	389.7	267.44
8,786.0	4.20	289.90	8,764.5	-5,342.5	-12.7	-402.7	402.9	268.19
8,972.0	3.60	303.30	8,950.0	-5,528.0	-7.2	-414.0	414.1	269.01



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,159.0	3.60	319.10	9,136.7	-5,714.7	0.5	-422.8	422.8	270.06
9,345.0	3.10	302.50	9,322.3	-5,900.3	7.6	-430.8	430.9	271.01
9,531.0	4.50	308.50	9,507.9	-6,085.9	14.8	-440.8	441.0	271.93
9,717.0	4.60	305.50	9,693.3	-6,271.3	23.7	-452.6	453.2	273.00
9,903.0	4.10	309.60	9,878.8	-6,456.8	32.3	-463.8	464.9	273.98
10,090.0	3.70	307.00	10,065.4	-6,643.4	40.2	-473.7	475.4	274.85
10,276.0	3.70	291.10	10,251.0	-6,829.0	45.9	-484.1	486.3	275.42
10,463.0	3.90	297.60	10,437.6	-7,015.6	51.1	-495.4	498.0	275.89
10,649.0	3.60	320.60	10,623.2	-7,201.2	58.5	-504.7	508.1	276.61
10,835.0	2.70	291.70	10,808.9	-7,386.9	64.6	-512.5	516.5	277.19
11,021.0	3.60	248.30	10,994.7	-7,572.7	64.1	-522.0	525.9	277.00
11,208.0	1.30	276.90	11,181.5	-7,759.5	62.2	-529.5	533.2	276.70
11,395.0	1.80	324.90	11,368.4	-7,946.4	64.6	-533.1	537.0	276.91
11,425.6	1.61	314.56	11,399.0	-7,977.0	65.2	-533.7	537.7	276.97
B.S. Jennings 27 W1BO Fed Com 2H								
11,550.0	2.10	280.80	11,523.4	-8,101.4	66.9	-537.2	541.3	277.10
11,637.0	2.90	257.70	11,610.3	-8,188.3	66.7	-540.9	545.0	277.03
11,668.0	6.00	223.00	11,641.2	-8,219.2	65.4	-542.8	546.7	276.87
11,699.0	10.90	211.90	11,671.8	-8,249.8	61.7	-545.4	548.9	276.45
11,730.0	15.70	207.70	11,702.0	-8,280.0	55.5	-548.9	551.7	275.77
11,761.0	18.90	205.60	11,731.6	-8,309.6	47.2	-553.0	555.1	274.88
11,792.0	21.60	203.70	11,760.7	-8,338.7	37.5	-557.5	558.8	273.85
11,823.0	24.10	201.40	11,789.2	-8,367.2	26.4	-562.1	562.7	272.68
11,853.0	26.50	199.50	11,816.4	-8,394.4	14.3	-566.6	566.8	271.45
11,885.0	28.70	199.40	11,844.7	-8,422.7	0.4	-571.5	571.5	270.04
11,916.0	31.40	198.60	11,871.6	-8,449.6	-14.3	-576.6	576.7	268.58
11,946.0	35.30	197.80	11,896.6	-8,474.6	-30.0	-581.7	582.5	267.05



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11,977.0	37.90	197.50	11,921.5	-8,499.5	-47.6	-587.3	589.2	265.37
12,008.0	39.40	196.30	11,945.7	-8,523.7	-66.1	-592.9	596.6	263.64
12,040.0	42.30	196.50	11,969.9	-8,547.9	-86.2	-598.8	605.0	261.81
12,071.0	46.80	196.60	11,992.0	-8,570.0	-107.0	-605.0	614.4	259.97
12,102.0	50.90	197.60	12,012.4	-8,590.4	-129.3	-611.9	625.4	258.07
12,133.0	53.70	198.10	12,031.3	-8,609.3	-152.7	-619.4	638.0	256.15
12,164.0	56.60	198.00	12,049.1	-8,627.1	-176.9	-627.3	651.8	254.25
12,195.0	59.30	198.70	12,065.5	-8,643.5	-201.8	-635.6	666.8	252.38
12,223.8	62.09	198.70	12,079.6	-8,657.6	-225.6	-643.6	682.0	250.68
LP Jennings 27 W1BO Fed Com 2H								
12,226.0	62.30	198.70	12,080.6	-8,658.6	-227.4	-644.3	683.2	250.56
12,257.0	65.10	198.10	12,094.4	-8,672.4	-253.8	-653.0	700.6	248.76
12,283.0	67.20	197.20	12,104.9	-8,682.9	-278.5	-660.2	715.8	247.28
12,319.0	70.40	196.70	12,117.9	-8,695.9	-308.6	-670.0	737.7	245.27
12,381.0	76.60	194.50	12,135.5	-8,713.5	-365.8	-686.0	777.4	241.93
12,473.0	82.50	194.00	12,152.2	-8,730.2	-453.4	-708.2	841.0	237.37
12,566.0	84.20	193.60	12,162.9	-8,740.9	-543.1	-730.3	910.1	233.36
12,660.0	88.00	190.70	12,169.3	-8,747.3	-634.8	-750.0	982.6	229.75
12,752.0	92.20	192.80	12,169.2	-8,747.2	-724.9	-768.7	1,056.6	226.68
12,846.0	91.30	192.10	12,166.3	-8,744.3	-816.6	-789.0	1,135.5	224.01
12,939.0	92.30	188.60	12,163.4	-8,741.4	-908.0	-805.7	1,213.9	221.58
13,031.0	89.20	184.70	12,162.2	-8,740.2	-999.4	-816.3	1,290.4	219.24
13,124.0	87.80	185.00	12,164.6	-8,742.6	-1,092.0	-824.2	1,368.1	217.04
13,218.0	88.00	185.00	12,168.1	-8,746.1	-1,185.6	-832.4	1,448.6	215.07
13,311.0	87.80	182.80	12,171.5	-8,749.5	-1,278.3	-838.7	1,528.9	213.27
13,404.0	87.50	181.20	12,175.3	-8,753.3	-1,371.2	-841.9	1,609.0	211.55
13,497.0	89.80	181.00	12,177.5	-8,755.5	-1,464.1	-843.7	1,689.8	209.95



Stryker Directional MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 27-25S-32E Jennings 27 W1BO Fed Cor
Well: Jennings 27 W1BO Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 27 W1BO Fed Com 2H
TVD Reference: 3395 +27 @ 3422.0usft (Patterson 242)
MD Reference: 3395 +27 @ 3422.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,590.0	86.40	182.50	12,160.6	-8,758.6	-1,557.0	-846.6	1,772.3	208.53
13,684.0	89.90	179.90	12,183.6	-8,761.6	-1,650.9	-848.5	1,856.2	207.20
13,777.0	88.90	179.10	12,184.6	-8,762.6	-1,743.9	-847.7	1,939.0	205.92
13,870.0	89.50	180.80	12,185.9	-8,763.9	-1,836.9	-847.6	2,023.0	204.77
13,963.0	87.30	180.70	12,188.5	-8,766.5	-1,929.8	-848.8	2,108.3	203.74
14,056.0	87.00	177.70	12,193.1	-8,771.1	-2,022.7	-847.5	2,193.1	202.73
14,149.0	88.90	177.10	12,198.0	-8,776.0	-2,115.5	-843.3	2,277.4	201.73
14,243.0	88.80	177.40	12,201.6	-8,779.6	-2,209.3	-838.8	2,363.2	200.79
14,336.0	88.00	177.30	12,204.2	-8,782.2	-2,302.2	-834.5	2,448.7	199.93
14,429.0	90.60	179.00	12,205.3	-8,783.3	-2,395.1	-831.5	2,535.3	199.15
14,522.0	90.20	178.90	12,204.6	-8,782.6	-2,488.1	-829.8	2,622.8	198.44
14,615.0	89.50	178.50	12,204.9	-8,782.9	-2,581.0	-827.7	2,710.5	197.78
14,707.0	88.80	178.90	12,206.3	-8,784.3	-2,673.0	-825.6	2,797.6	197.16
14,800.0	87.90	178.70	12,208.9	-8,786.9	-2,766.0	-823.7	2,886.0	196.58
14,894.0	87.80	181.50	12,212.5	-8,790.5	-2,859.9	-823.8	2,976.2	196.07
14,987.0	88.70	181.60	12,215.3	-8,793.3	-2,952.8	-826.4	3,066.2	195.63
15,081.0	85.80	178.70	12,219.8	-8,797.8	-3,046.7	-826.6	3,156.8	195.18
15,173.0	90.00	182.00	12,223.2	-8,801.2	-3,138.6	-827.2	3,245.7	194.76
15,266.0	89.10	182.60	12,223.9	-8,801.9	-3,231.5	-830.9	3,336.6	194.42
15,359.0	90.20	183.10	12,224.5	-8,802.5	-3,324.4	-835.5	3,427.8	194.11
15,452.0	93.30	183.70	12,221.6	-8,799.6	-3,417.2	-841.0	3,519.1	193.83
15,545.0	91.90	181.40	12,217.4	-8,795.4	-3,510.0	-845.2	3,610.3	193.54
15,638.0	88.00	181.00	12,217.5	-8,795.5	-3,602.9	-847.1	3,701.2	193.23
15,731.0	88.30	180.50	12,220.5	-8,798.5	-3,695.9	-848.3	3,792.0	192.93
15,824.0	87.50	179.90	12,223.9	-8,801.9	-3,788.8	-848.7	3,882.7	192.63
15,916.0	86.40	179.90	12,228.8	-8,806.8	-3,880.7	-848.5	3,972.3	192.33
16,009.0	88.00	183.10	12,233.3	-8,811.3	-3,973.5	-850.9	4,063.6	192.09



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
16,100.0	88.80	184.00	12,236.0	-8,814.0	-4,064.3	-856.8	4,153.8	191.90
16,194.0	87.70	183.30	12,239.1	-8,817.1	-4,158.1	-862.5	4,246.6	191.72
16,286.0	86.80	183.30	12,243.5	-8,821.5	-4,248.8	-867.8	4,337.5	191.54
16,379.0	87.00	183.70	12,248.5	-8,826.5	-4,342.5	-873.5	4,429.5	191.37
16,472.0	90.50	184.60	12,250.6	-8,828.6	-4,435.2	-880.2	4,521.7	191.23
16,565.0	90.00	184.20	12,250.1	-8,828.1	-4,527.9	-887.4	4,614.1	191.09
16,710.0	90.00	184.20	12,250.1	-8,828.1	-4,672.5	-898.0	4,758.0	190.88

16710.0' MD Projected to Bit - PBHL Jennings 27 W1BO Fed Com 2H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,710.0	12,250.1	-4,672.5	-898.0	16710.0' MD Projected to Bit