



COMPANY: Mewbourne Oil Company
 WELL: Perro Loco 22 B2PA Fed #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 250



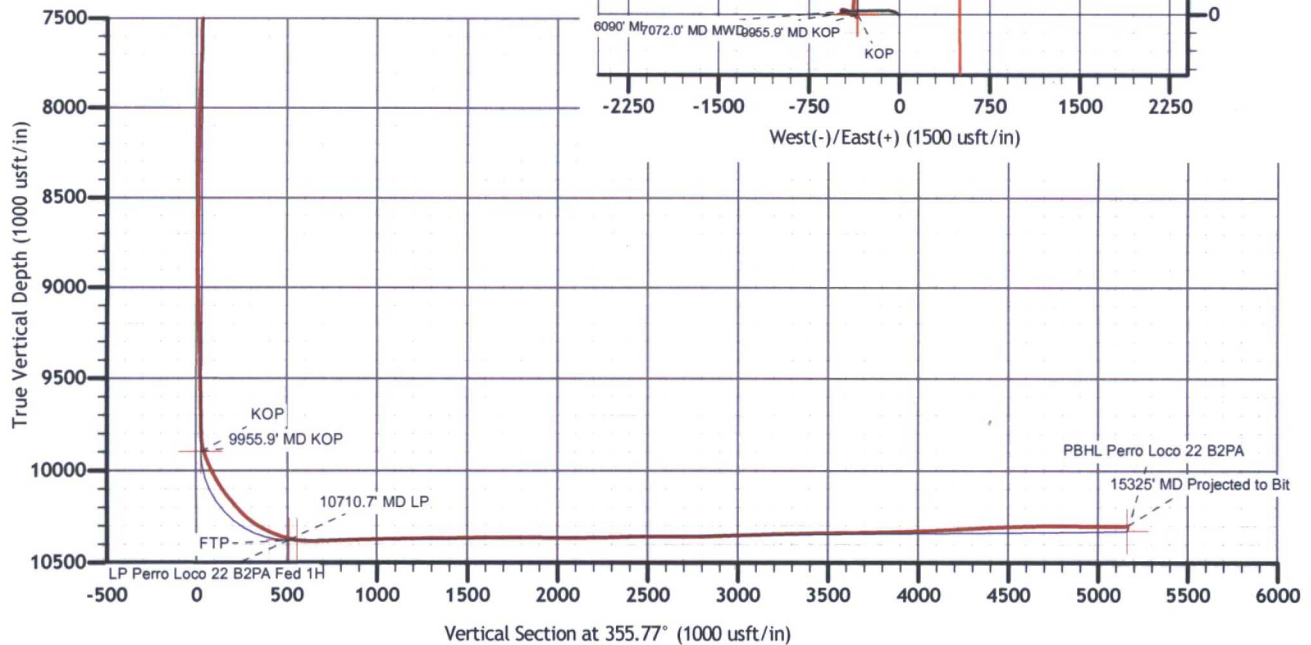
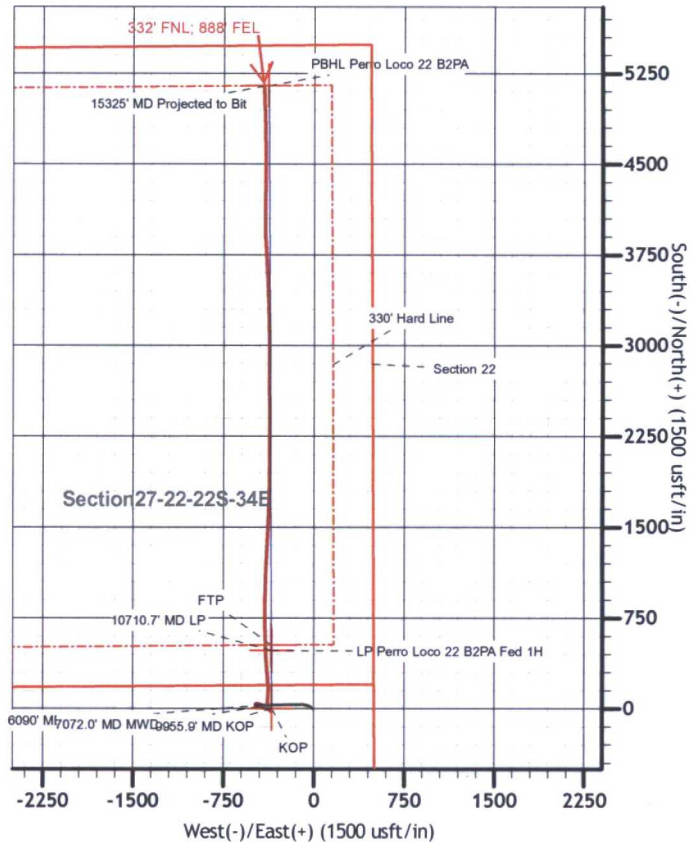
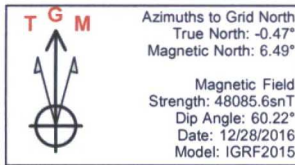
OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.49°

GEODETIC ZONE: New Mexico East 3001 3424 + 27 @ 3451.0usft (Patterson 250) GROUND ELEVATION: 3424.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	499177.60	772581.90	32° 22' 9.348 N	103° 27' 1.729 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	7072.0	9.40	100.80	7019.1	16.7	-457.1	0.00	0.00	50.4	
2	7919.5	0.93	95.50	7862.4	3.1	-382.1	1.00	-179.42	31.3	
3	9863.0	0.93	95.50	9805.6	0.1	-350.7	0.00	0.00	25.9	
4	9955.9	0.00	0.00	9898.5	0.0	-350.0	1.00	180.00	25.8	KOP
5	9955.9	0.00	0.00	9898.6	0.0	-350.0	0.00	0.00	25.8	
6	10710.7	90.56	359.66	10376.0	482.2	-352.9	12.00	359.66	506.9	
7	15379.0	90.56	359.66	10330.0	5150.2	-380.7	0.00	0.00	5164.3	PBHL Perro Loco 22 B2PA

SHL:200' FNL; 500' FEL
 Section 27-22S-34E
 PBHL: 330' FNL; 500' FEL
 Section 22-22S-34E

HOBBS OCD
JUL 13 2017
RECEIVED





Mewbourne Oil Company

Lea County N.M.

Section 27-22-22S-34E Perro Loco 22 B2PA Fed 1H

Perro Loco 22 B2PA Fed #1H

Original Hole

Design: Original Hole

Standard Survey Report

09 February, 2017



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Perro Loco 22 B2PA Fed #1H
Project:	Lea County N.M.	TVD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Site:	Section27-22-22S-34E Perro Loco 22 B2PA Fed 1H	MD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Well:	Perro Loco 22 B2PA Fed #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N.M.		
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	Section27-22-22S-34E Perro Loco 22 B2PA Fed 1H		
Site Position:		Northing:	499,177.60 usft
From:	Map	Easting:	772,581.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 9.348 N
		Longitude:	103° 27' 1.729 W
		Grid Convergence:	0.47 °

Well	Perro Loco 22 B2PA Fed #1H		
Well Position	+N/-S	0.0 usft	Northing: 499,177.60 usft
	+E/-W	0.0 usft	Easting: 772,581.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 22' 9.348 N
		Longitude:	103° 27' 1.729 W
		Ground Level:	3,424.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/28/2016	6.96	60.22	48,085.63675823

Design	Original Hole		
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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	274.29

Survey Program		Date	2/9/2017	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,090.0	Phoenix Tech Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
6,137.0	15,325.0	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	0.20	66.58	100.0	0.1	0.2	-0.2	0.20	0.20	0.00
	200.0	0.22	7.04	200.0	0.3	0.3	-0.3	0.21	0.02	-59.54
	300.0	0.43	348.50	300.0	0.9	0.3	-0.2	0.23	0.21	-18.54
	400.0	0.49	333.04	400.0	1.6	0.0	0.1	0.14	0.06	-15.46
	500.0	0.53	102.51	500.0	1.9	0.3	-0.1	0.92	0.04	129.47
	600.0	0.39	25.34	600.0	2.1	0.9	-0.7	0.58	-0.14	-77.17
	700.0	0.27	346.85	700.0	2.7	1.0	-0.8	0.25	-0.12	-38.49
	800.0	0.65	303.19	800.0	3.2	0.4	-0.2	0.49	0.38	-43.66

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Perro Loco 22 B2PA Fed #1H
Project:	Lea County N.M.	TVD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Site:	Section27-22-22S-34E Perro Loco 22 B2PA Fed 1H	MD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Well:	Perro Loco 22 B2PA Fed #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)
900.0	0.34	36.56	900.0	3.8	0.1	0.1	0.75	-0.31	93.37
1,000.0	0.36	282.16	1,000.0	4.1	0.0	0.3	0.59	0.02	-114.40
1,100.0	0.53	288.52	1,100.0	4.3	-0.7	1.0	0.18	0.17	6.36
1,200.0	0.65	201.11	1,200.0	3.9	-1.4	1.7	0.82	0.12	-87.41
1,300.0	0.81	266.97	1,300.0	3.3	-2.3	2.5	0.80	0.16	65.86
1,400.0	0.63	82.44	1,400.0	3.4	-2.4	2.7	1.44	-0.18	175.47
1,500.0	0.86	304.49	1,500.0	3.9	-2.5	2.8	1.39	0.23	-137.95
1,600.0	0.72	250.55	1,600.0	4.1	-3.7	4.0	0.73	-0.14	-53.94
1,700.0	1.09	298.21	1,699.9	4.3	-5.2	5.5	0.81	0.37	47.66
1,800.0	0.88	299.76	1,799.9	5.1	-6.7	7.0	0.21	-0.21	1.55
1,900.0	1.10	322.96	1,899.9	6.3	-7.9	8.4	0.45	0.22	23.20
2,000.0	0.97	257.77	1,999.9	6.9	-9.3	9.8	1.12	-0.13	-65.19
2,100.0	0.93	171.15	2,099.9	5.9	-10.0	10.4	1.30	-0.04	-86.62
2,200.0	0.91	284.41	2,199.9	5.3	-10.7	11.0	1.54	-0.02	113.26
2,300.0	1.19	112.14	2,299.9	5.1	-10.5	10.8	2.10	0.28	-172.27
2,400.0	0.42	214.19	2,399.9	4.4	-9.7	10.0	1.34	-0.77	102.05
2,500.0	0.61	254.30	2,499.9	4.0	-10.4	10.7	0.40	0.19	40.11
2,600.0	0.74	355.37	2,599.9	4.5	-11.0	11.3	1.05	0.13	101.07
2,700.0	0.91	281.12	2,699.9	5.2	-11.8	12.2	1.01	0.17	-74.25
2,800.0	0.92	277.26	2,799.8	5.5	-13.4	13.8	0.06	0.01	-3.86
2,900.0	0.67	24.67	2,899.8	6.1	-14.0	14.4	1.29	-0.25	107.41
3,000.0	0.58	289.62	2,999.8	6.8	-14.2	14.7	0.92	-0.09	-95.05
3,100.0	0.18	40.79	3,099.8	7.1	-14.6	15.1	0.67	-0.40	111.17
3,200.0	0.27	276.83	3,199.8	7.3	-14.7	15.2	0.40	0.09	-123.96
3,300.0	0.19	286.72	3,299.8	7.3	-15.1	15.6	0.09	-0.08	9.89
3,400.0	0.12	110.76	3,399.8	7.4	-15.1	15.7	0.31	-0.07	-175.96
3,500.0	0.24	311.50	3,499.8	7.5	-15.2	15.7	0.35	0.12	-159.26
3,600.0	0.06	211.92	3,599.8	7.6	-15.4	15.9	0.26	-0.18	-99.58
3,700.0	0.36	316.27	3,699.8	7.7	-15.6	16.2	0.38	0.30	104.35
3,800.0	1.01	297.61	3,799.8	8.4	-16.6	17.2	0.68	0.65	-18.66
3,900.0	1.83	304.54	3,899.8	9.7	-18.7	19.4	0.84	0.82	6.93
4,000.0	1.79	312.02	3,999.7	11.6	-21.2	22.0	0.24	-0.04	7.48
4,100.0	1.79	329.41	4,099.7	14.0	-23.2	24.1	0.54	0.00	17.39
4,200.0	2.34	304.59	4,199.6	16.5	-25.6	26.8	1.04	0.55	-24.82
4,300.0	4.89	299.72	4,299.4	19.8	-31.0	32.4	2.57	2.55	-4.87
4,400.0	8.46	288.46	4,398.7	24.2	-41.7	43.4	3.79	3.57	-11.26
4,500.0	9.52	284.97	4,497.5	28.7	-56.7	58.7	1.19	1.06	-3.49
4,600.0	10.26	280.87	4,596.0	32.5	-73.4	75.6	1.02	0.74	-4.10
4,700.0	11.73	273.52	4,694.2	34.8	-92.3	94.6	2.03	1.47	-7.35
4,800.0	11.37	271.55	4,792.2	35.7	-112.3	114.7	0.53	-0.36	-1.97
4,900.0	11.58	271.52	4,890.2	36.3	-132.2	134.5	0.21	0.21	-0.03
5,000.0	11.86	271.29	4,988.1	36.8	-152.5	154.8	0.28	0.28	-0.23

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Project:	Lea County N.M.	TVD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Site:	Section27-22-22S-34E Perro Loco 22 B2PA Fed 1H	MD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Well:	Perro Loco 22 B2PA Fed #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)
5,100.0	11.96	268.95	5,085.9	36.8	-173.1	175.4	0.49	0.10	-2.34
5,200.0	13.54	265.69	5,183.5	35.7	-195.2	197.3	1.74	1.58	-3.26
5,300.0	13.62	265.92	5,280.7	34.0	-218.6	220.5	0.10	0.08	0.23
5,400.0	14.77	268.91	5,377.6	32.9	-243.1	244.9	1.36	1.15	2.99
5,500.0	15.38	269.06	5,474.2	32.5	-269.1	270.7	0.61	0.61	0.15
5,600.0	15.29	268.17	5,570.6	31.8	-295.5	297.1	0.25	-0.09	-0.89
5,700.0	15.30	268.79	5,667.1	31.1	-321.9	323.3	0.16	0.01	0.62
5,800.0	16.60	268.97	5,763.2	30.6	-349.4	350.7	1.30	1.30	0.18
5,900.0	16.73	269.48	5,859.0	30.2	-378.0	379.2	0.20	0.13	0.51
6,000.0	14.68	271.99	5,955.3	30.5	-405.1	406.2	2.16	-2.05	2.51
6,090.0	11.70	276.55	6,042.9	32.0	-425.6	426.8	3.50	-3.31	5.07
6090' MD Phoenix Gyro									
6,137.0	9.50	281.20	6,089.1	33.3	-434.1	435.4	5.02	-4.68	9.89
6,231.0	7.20	287.40	6,182.1	36.5	-447.3	448.8	2.62	-2.45	6.60
6,324.0	7.10	283.30	6,274.4	39.6	-458.5	460.2	0.56	-0.11	-4.41
6,418.0	4.70	279.00	6,367.9	41.5	-467.9	469.7	2.59	-2.55	-4.57
6,511.0	4.90	261.20	6,460.5	41.5	-475.6	477.4	1.61	0.22	-19.14
6,605.0	3.50	239.00	6,554.3	39.4	-482.1	483.7	2.26	-1.49	-23.62
6,698.0	3.00	197.80	6,647.2	35.6	-485.2	486.5	2.51	-0.54	-44.30
6,791.0	4.00	154.90	6,740.0	30.4	-484.6	485.5	2.93	1.08	-46.13
6,885.0	5.60	125.60	6,833.7	24.7	-479.5	480.0	3.06	1.70	-31.17
6,979.0	7.30	109.20	6,927.1	20.1	-470.1	470.3	2.65	1.81	-17.45
7,072.0	9.40	100.80	7,019.1	16.7	-457.1	457.0	2.61	2.26	-9.03
7,166.0	9.90	99.60	7,111.8	14.0	-441.6	441.4	0.57	0.53	-1.28
7,259.0	9.20	104.00	7,203.5	10.8	-426.5	426.1	1.09	-0.75	4.73
7,353.0	7.30	101.10	7,296.5	7.9	-413.3	412.7	2.07	-2.02	-3.09
7,446.0	6.80	103.70	7,388.8	5.4	-402.2	401.4	0.64	-0.54	2.80
7,539.0	6.50	105.80	7,481.2	2.7	-391.7	390.9	0.42	-0.32	2.26
7,633.0	5.00	100.20	7,574.7	0.5	-382.6	381.6	1.70	-1.60	-5.96
7,727.0	2.50	132.60	7,668.5	-1.6	-377.1	375.9	3.39	-2.66	34.47
7,820.0	2.50	134.50	7,761.4	-4.4	-374.1	372.7	0.09	0.00	2.04
7,914.0	2.30	136.00	7,855.3	-7.2	-371.3	369.8	0.22	-0.21	1.60
8,008.0	2.00	135.90	7,949.3	-9.7	-368.9	367.1	0.32	-0.32	-0.11
8,101.0	1.20	140.30	8,042.2	-11.6	-367.1	365.2	0.87	-0.86	4.73
8,195.0	0.90	131.70	8,136.2	-12.9	-366.0	364.0	0.36	-0.32	-9.15
8,288.0	0.90	144.10	8,229.2	-14.0	-365.0	362.9	0.21	0.00	13.33
8,382.0	0.80	137.60	8,323.2	-15.1	-364.1	362.0	0.15	-0.11	-6.91
8,475.0	0.90	141.90	8,416.2	-16.1	-363.2	361.0	0.13	0.11	4.62
8,569.0	0.90	138.90	8,510.2	-17.2	-362.3	360.0	0.05	0.00	-3.19
8,662.0	0.80	141.20	8,603.2	-18.3	-361.4	359.0	0.11	-0.11	2.47
8,756.0	0.90	137.80	8,697.1	-19.4	-360.5	358.0	0.12	0.11	-3.62
8,849.0	0.80	141.10	8,790.1	-20.4	-359.6	357.1	0.12	-0.11	3.55
8,943.0	0.80	102.50	8,884.1	-21.1	-358.5	356.0	0.56	0.00	-41.06

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Well:	Perro Loco 22 B2PA Fed #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)
9,036.0	1.50	37.70	8,977.1	-20.2	-357.2	354.6	1.47	0.75	-69.68
9,130.0	1.80	10.40	9,071.1	-17.8	-356.1	353.8	0.88	0.32	-29.04
9,223.0	1.90	356.40	9,164.0	-14.8	-356.0	353.9	0.50	0.11	-15.05
9,317.0	2.00	332.40	9,258.0	-11.8	-356.8	354.9	0.87	0.11	-25.53
9,410.0	1.80	324.20	9,350.9	-9.2	-358.4	356.7	0.36	-0.22	-8.82
9,528.0	2.10	304.10	9,468.8	-6.5	-361.3	359.8	0.63	0.25	-17.03
9,621.0	2.20	295.50	9,561.8	-4.8	-364.3	363.0	0.36	0.11	-9.25
9,715.0	2.50	288.00	9,655.7	-3.4	-367.9	366.6	0.46	0.32	-7.98
9,809.0	2.50	286.50	9,749.6	-2.1	-371.8	370.6	0.07	0.00	-1.60
9,871.0	3.90	326.60	9,811.5	0.0	-374.3	373.2	4.12	2.26	64.68
9,903.0	7.20	342.10	9,843.4	2.8	-375.5	374.7	11.24	10.31	48.44
9,934.0	12.30	346.30	9,873.9	7.9	-376.9	376.4	16.60	16.45	13.55
9,965.0	17.30	347.60	9,903.9	15.6	-378.7	378.8	16.16	16.13	4.19
9,996.0	20.80	352.30	9,933.2	25.6	-380.4	381.2	12.32	11.29	15.16
10,027.0	23.30	354.50	9,961.9	37.1	-381.7	383.4	8.49	8.06	7.10
10,058.0	26.20	356.70	9,990.1	50.1	-382.7	385.4	9.81	9.35	7.10
10,089.0	28.40	359.80	10,017.6	64.3	-383.1	386.8	8.45	7.10	10.00
10,120.0	29.80	3.20	10,044.7	79.3	-382.7	387.6	6.99	4.52	10.97
10,152.0	31.30	4.30	10,072.2	95.6	-381.6	387.7	5.00	4.69	3.44
10,183.0	33.30	3.90	10,098.5	112.1	-380.5	387.8	6.49	6.45	-1.29
10,214.0	37.20	1.50	10,123.8	129.9	-379.6	388.3	13.35	12.58	-7.74
10,246.0	39.50	359.50	10,148.9	149.8	-379.5	389.6	8.17	7.19	-6.25
10,277.0	40.30	358.80	10,172.6	169.7	-379.8	391.4	2.96	2.58	-2.26
10,308.0	41.00	357.30	10,196.2	189.9	-380.5	393.6	3.88	2.26	-4.84
10,339.0	43.20	356.30	10,219.2	210.6	-381.6	396.3	7.42	7.10	-3.23
10,370.0	46.40	356.60	10,241.2	232.4	-383.0	399.3	10.35	10.32	0.97
10,401.0	51.30	356.00	10,261.5	255.7	-384.5	402.5	15.87	15.81	-1.94
10,433.0	56.10	354.60	10,280.5	281.4	-386.6	406.6	15.41	15.00	-4.38
10,464.0	58.50	354.60	10,297.2	307.4	-389.1	411.0	7.74	7.74	0.00
10,495.0	62.00	355.50	10,312.6	334.2	-391.4	415.3	11.57	11.29	2.90
10,509.0	63.50	355.80	10,319.0	346.6	-392.3	417.2	10.88	10.71	2.14
10,581.0	69.60	355.10	10,347.7	412.4	-397.6	427.3	8.52	8.47	-0.97
10,613.0	72.60	356.20	10,358.0	442.6	-399.9	431.9	9.92	9.38	3.44
10,644.0	74.70	356.80	10,366.8	472.3	-401.7	435.9	7.02	6.77	1.94
10,675.0	78.20	358.10	10,374.0	502.4	-403.0	439.5	12.00	11.29	4.19
10,706.0	82.50	358.90	10,379.2	532.9	-403.8	442.6	14.10	13.87	2.58
10,737.0	87.60	358.60	10,381.9	563.8	-404.5	445.6	16.48	16.45	-0.97
10,768.0	89.50	359.00	10,382.7	594.8	-405.1	448.5	6.26	6.13	1.29
10,799.0	89.80	359.10	10,382.9	625.7	-405.6	451.4	1.02	0.97	0.32
10,830.0	91.50	359.30	10,382.5	656.7	-406.1	454.1	5.52	5.48	0.65
10,893.0	92.00	359.50	10,380.6	719.7	-406.7	459.5	0.85	0.79	0.32
10,986.0	92.50	359.40	10,376.9	812.6	-407.6	467.3	0.55	0.54	-0.11

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Perro Loco 22 B2PA Fed #1H
Project:	Lea County N.M.	TVD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Site:	Section27-22-22S-34E Perro Loco 22 B2PA Fed 1H	MD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Well:	Perro Loco 22 B2PA Fed #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)
11,079.0	90.70	1.20	10,374.3	905.6	-407.1	473.8	2.74	-1.94	1.94
11,173.0	91.20	1.50	10,372.8	999.5	-404.9	478.6	0.62	0.53	0.32
11,266.0	92.00	1.70	10,370.2	1,092.5	-402.3	483.0	0.89	0.86	0.22
11,359.0	90.20	2.40	10,368.4	1,185.4	-399.0	486.6	2.08	-1.94	0.75
11,452.0	90.20	2.90	10,368.1	1,278.3	-394.7	489.3	0.54	0.00	0.54
11,545.0	90.60	3.10	10,367.4	1,371.2	-389.8	491.4	0.48	0.43	0.22
11,638.0	91.40	3.40	10,365.8	1,464.0	-384.6	493.1	0.92	0.86	0.32
11,732.0	90.60	1.80	10,364.2	1,557.9	-380.3	495.9	1.90	-0.85	-1.70
11,825.0	91.30	2.90	10,362.6	1,650.8	-376.5	499.0	1.40	0.75	1.18
11,918.0	88.90	1.20	10,362.5	1,743.7	-373.2	502.7	3.16	-2.58	-1.83
12,012.0	88.60	1.60	10,364.5	1,837.7	-370.9	507.4	0.53	-0.32	0.43
12,105.0	90.20	0.20	10,365.5	1,930.6	-369.4	512.9	2.29	1.72	-1.51
12,199.0	89.80	0.20	10,365.5	2,024.6	-369.1	519.6	0.43	-0.43	0.00
12,292.0	91.00	359.70	10,364.8	2,117.6	-369.2	526.7	1.40	1.29	-0.54
12,386.0	90.80	359.90	10,363.4	2,211.6	-369.5	534.0	0.30	-0.21	0.21
12,479.0	92.40	359.50	10,360.8	2,304.6	-370.0	541.5	1.77	1.72	-0.43
12,573.0	90.30	0.10	10,358.5	2,398.6	-370.3	548.9	2.32	-2.23	0.64
12,666.0	90.10	359.80	10,358.2	2,491.6	-370.4	555.9	0.39	-0.22	-0.32
12,760.0	90.00	359.40	10,358.1	2,585.6	-371.0	563.6	0.44	-0.11	-0.43
12,853.0	90.20	359.50	10,358.0	2,678.5	-371.9	571.4	0.24	0.22	0.11
12,947.0	90.20	0.00	10,357.6	2,772.5	-372.3	578.9	0.53	0.00	0.53
13,041.0	93.50	0.50	10,354.6	2,866.5	-371.9	585.5	3.55	3.51	0.53
13,134.0	91.40	359.10	10,350.6	2,959.4	-372.3	592.8	2.71	-2.26	-1.51
13,228.0	91.80	359.40	10,348.0	3,053.3	-373.5	601.1	0.53	0.43	0.32
13,321.0	91.70	358.90	10,345.2	3,146.3	-374.9	609.4	0.55	-0.11	-0.54
13,415.0	91.70	358.60	10,342.4	3,240.2	-376.9	618.5	0.32	0.00	-0.32
13,508.0	91.10	358.10	10,340.1	3,333.2	-379.6	628.1	0.84	-0.65	-0.54
13,601.0	90.10	358.00	10,339.1	3,426.1	-382.8	638.2	1.08	-1.08	-0.11
13,695.0	90.80	357.80	10,338.4	3,520.0	-386.2	648.7	0.77	0.74	-0.21
13,788.0	90.20	357.20	10,337.6	3,612.9	-390.3	659.7	0.91	-0.65	-0.65
13,882.0	91.40	357.10	10,336.3	3,706.8	-394.9	671.4	1.28	1.28	-0.11
13,976.0	91.60	356.00	10,333.8	3,800.6	-400.6	684.0	1.19	0.21	-1.17
14,069.0	91.00	357.30	10,331.7	3,893.4	-406.0	696.4	1.54	-0.65	1.40
14,162.0	93.50	359.80	10,328.1	3,986.3	-408.4	705.7	3.80	2.69	2.69
14,256.0	92.50	0.70	10,323.1	4,080.2	-408.0	712.3	1.43	-1.06	0.96
14,348.0	92.70	0.70	10,319.0	4,172.1	-406.8	718.1	0.22	0.22	0.00
14,442.0	92.40	0.50	10,314.8	4,266.0	-405.9	724.1	0.38	-0.32	-0.21
14,535.0	92.40	0.20	10,310.9	4,358.9	-405.3	730.5	0.32	0.00	-0.32
14,629.0	92.40	0.30	10,306.9	4,452.8	-404.9	737.1	0.11	0.00	0.11
14,722.0	91.60	359.80	10,303.7	4,545.8	-404.8	744.0	1.01	-0.86	-0.54
14,815.0	90.80	359.30	10,301.8	4,638.7	-405.5	751.7	1.01	-0.86	-0.54
14,909.0	90.60	359.10	10,300.6	4,732.7	-406.8	760.1	0.30	-0.21	-0.21
15,002.0	89.50	358.90	10,300.5	4,825.7	-408.5	768.6	1.20	-1.18	-0.22

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Perro Loco 22 B2PA Fed #1H
Project:	Lea County N.M.	TVD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Site:	Section27-22-22S-34E Perro Loco 22 B2PA Fed 1H	MD Reference:	3424 + 27 @ 3451.0usft (Patterson 250)
Well:	Perro Loco 22 B2PA Fed #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)
15,096.0	89.50	358.00	10,301.3	4,919.7	-411.0	778.2	0.96	0.00	-0.96
15,189.0	90.10	357.90	10,301.7	5,012.6	-414.3	788.5	0.65	0.65	-0.11
15,325.0	90.10	357.90	10,301.4	5,148.5	-419.3	803.6	0.00	0.00	0.00

15325' MD Projected to Bit

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,090.0	6,042.9	32.0	-425.6	6090' MD Phoenix Gyro
15,325.0	10,301.4	5,148.5	-419.3	15325' MD Projected to Bit



February 23, 2017

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

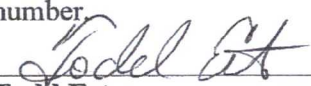
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Perro Loco 22 B2PA Federal #001H
Ojo Chiso; Bone Spring
Lea County, New Mexico
API# 30-025-43393

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>
David Calabrese	Original Hole	6,137ft. to 15,189ft.	01-25-17 to 02-09-17	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\Perro Loco 22 B2PA Federal #1H\M171002

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



February 23, 2017

Survey Certification Report

STATE OF TEXAS

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 January 25, 2017, through February 09, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 6,137 feet to a depth of 15,189 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 Perro Loco 22 B2PA Federal #001H well, API # 30-025-43393 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 "Todd Estes", written over a horizontal line.

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: Lea County N.M.
Site: Section27-22-22S-34E Perro Loco 22 B2PA Fed
Well: Perro Loco 22 B2PA Fed #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Perro Loco 22 B2PA Fed #1H
TVD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
MD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Lea County N.M.		
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	Section27-22-22S-34E Perro Loco 22 B2PA Fed 1H		
Site Position:		Northing:	499,177.60 usft
From:	Map	Easting:	772,581.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 9.348 N
		Longitude:	103° 27' 1.729 W
		Grid Convergence:	0.47 °

Well	Perro Loco 22 B2PA Fed #1H					
Well Position	+N/-S	0.0 usft	Northing:	499,177.60 usft	Latitude:	32° 22' 9.348 N
	+E/-W	0.0 usft	Easting:	772,581.90 usft	Longitude:	103° 27' 1.729 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,424.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/28/2016	6.96	60.22	48,085.63675823

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	274.29	



Microsoft MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section27-22-22S-34E Perro Loco 22 B2PA Fed
Well: Perro Loco 22 B2PA Fed #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Perro Loco 22 B2PA Fed #1H
TVD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
MD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program Date 2/9/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,090.0	Phoenix Tech Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
6,137.0	15,325.0	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 (°)
6,090.0	11.70	276.55	6,042.9	32.0	-425.6	426.8	274.29
6,137.0	9.50	281.20	6,089.1	33.3	-434.1	435.4	274.38
6,231.0	7.20	287.40	6,182.1	36.5	-447.3	448.8	274.67
6,324.0	7.10	283.30	6,274.4	39.6	-458.5	460.2	274.93
6,418.0	4.70	279.00	6,367.9	41.5	-467.9	469.8	275.07
6,511.0	4.90	261.20	6,460.5	41.5	-475.6	477.4	274.99
6,605.0	3.50	239.00	6,554.3	39.4	-482.1	483.7	274.67
6,698.0	3.00	197.80	6,647.2	35.6	-485.2	486.5	274.20
6,791.0	4.00	154.90	6,740.0	30.4	-484.6	485.6	273.59
6,885.0	5.60	125.60	6,833.7	24.7	-479.5	480.1	272.95
6,979.0	7.30	109.20	6,927.1	20.1	-470.1	470.5	272.45
7,072.0	9.40	100.80	7,019.1	16.7	-457.1	457.4	272.10
7,166.0	9.90	99.60	7,111.8	14.0	-441.6	441.8	271.81
7,259.0	9.20	104.00	7,203.5	10.8	-426.5	426.6	271.45
7,353.0	7.30	101.10	7,296.5	7.9	-413.3	413.4	271.09
7,446.0	6.80	103.70	7,388.8	5.4	-402.2	402.2	270.77
7,539.0	6.50	105.80	7,481.2	2.7	-391.7	391.8	270.39
7,633.0	5.00	100.20	7,574.7	0.5	-382.6	382.6	270.08
7,727.0	2.50	132.60	7,668.5	-1.6	-377.1	377.1	269.76
7,820.0	2.50	134.50	7,761.4	-4.4	-374.1	374.1	269.33
7,914.0	2.30	136.00	7,855.3	-7.2	-371.3	371.4	268.89

Tie-in



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 27-22-22S-34E Perro Loco 22 B2PA Fed
Well: Perro Loco 22 B2PA Fed #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Perro Loco 22 B2PA Fed #1H
TVD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
MD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
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 (°)
8,008.0	2.00	135.90	7,949.3	-9.7	-368.9	369.0	268.49
8,101.0	1.20	140.30	8,042.2	-11.6	-367.1	367.3	268.18
8,195.0	0.90	131.70	8,136.2	-12.9	-366.0	366.2	267.98
8,288.0	0.90	144.10	8,229.2	-14.0	-365.0	365.3	267.81
8,382.0	0.80	137.60	8,323.2	-15.1	-364.1	364.4	267.63
8,475.0	0.90	141.90	8,416.2	-16.1	-363.2	363.6	267.46
8,569.0	0.90	138.90	8,510.2	-17.2	-362.3	362.7	267.27
8,662.0	0.80	141.20	8,603.2	-18.3	-361.4	361.9	267.10
8,756.0	0.90	137.80	8,697.1	-19.4	-360.5	361.0	266.93
8,849.0	0.80	141.10	8,790.1	-20.4	-359.6	360.2	266.75
8,943.0	0.80	102.50	8,884.1	-21.1	-358.5	359.2	266.64
9,036.0	1.50	37.70	8,977.1	-20.2	-357.2	357.7	266.76
9,130.0	1.80	10.40	9,071.1	-17.8	-356.1	356.6	267.14
9,223.0	1.90	356.40	9,164.0	-14.8	-356.0	356.3	267.61
9,317.0	2.00	332.40	9,258.0	-11.8	-356.8	357.0	268.10
9,410.0	1.80	324.20	9,350.9	-9.2	-358.4	358.6	268.53
9,528.0	2.10	304.10	9,468.8	-6.5	-361.3	361.4	268.97
9,621.0	2.20	295.50	9,561.8	-4.8	-364.3	364.4	269.25
9,715.0	2.50	288.00	9,655.7	-3.4	-367.9	367.9	269.48
9,809.0	2.50	286.50	9,749.6	-2.1	-371.8	371.8	269.67
9,871.0	3.90	326.60	9,811.5	0.0	-374.3	374.3	270.00
9,903.0	7.20	342.10	9,843.4	2.8	-375.5	375.5	270.43
9,934.0	12.30	346.30	9,873.9	7.9	-376.9	377.0	271.20
9,965.0	17.30	347.60	9,903.9	15.6	-378.7	379.0	272.36
9,996.0	20.80	352.30	9,933.2	25.6	-380.4	381.2	273.84
10,027.0	23.30	354.50	9,961.9	37.1	-381.7	383.5	275.55
10,058.0	26.20	356.70	9,990.1	50.1	-382.7	385.9	277.45



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 27-22-22S-34E Perro Loco 22 B2PA Fed
Well: Perro Loco 22 B2PA Fed #1H
Wellbore: Original Hole
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,089.0	28.40	359.80	10,017.6	64.3	-383.1	388.5	279.52
10,120.0	29.80	3.20	10,044.7	79.3	-382.7	390.8	281.71
10,152.0	31.30	4.30	10,072.2	95.6	-381.6	393.4	284.06
10,183.0	33.30	3.90	10,098.5	112.1	-380.5	396.6	286.41
10,214.0	37.20	1.50	10,123.8	129.9	-379.6	401.3	288.90
10,246.0	39.50	359.50	10,148.9	149.8	-379.5	408.0	291.54
10,277.0	40.30	358.80	10,172.6	169.7	-379.8	415.9	294.07
10,308.0	41.00	357.30	10,196.2	189.9	-380.5	425.2	296.52
10,339.0	43.20	356.30	10,219.2	210.6	-381.6	435.9	298.89
10,370.0	46.40	356.60	10,241.2	232.4	-383.0	448.0	301.25
10,401.0	51.30	356.00	10,261.5	255.7	-384.5	461.7	303.63
10,433.0	56.10	354.60	10,280.5	281.4	-386.6	478.2	306.05
10,464.0	58.50	354.60	10,297.2	307.4	-389.1	495.8	308.31
10,495.0	62.00	355.50	10,312.6	334.2	-391.4	514.6	310.49
10,509.0	63.50	355.80	10,319.0	346.6	-392.3	523.5	311.46
10,581.0	69.60	355.10	10,347.7	412.4	-397.6	572.8	316.05
10,613.0	72.60	356.20	10,358.0	442.6	-399.9	596.4	317.90
10,644.0	74.70	356.80	10,366.8	472.3	-401.7	620.0	319.62
10,675.0	78.20	358.10	10,374.0	502.4	-403.0	644.0	321.26
10,706.0	82.50	358.90	10,379.2	532.9	-403.8	668.6	322.85
10,737.0	87.60	358.60	10,381.9	563.8	-404.5	693.9	324.34
10,768.0	89.50	359.00	10,382.7	594.8	-405.1	719.6	325.74
10,799.0	89.80	359.10	10,382.9	625.7	-405.6	745.7	327.05
10,830.0	91.50	359.30	10,382.5	656.7	-406.1	772.1	328.27
10,893.0	92.00	359.50	10,380.6	719.7	-406.7	826.7	330.53
10,986.0	92.50	359.40	10,376.9	812.6	-407.6	909.1	333.36
11,079.0	90.70	1.20	10,374.3	905.6	-407.1	992.9	335.79



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 27-22-22S-34E Perro Loco 22 B2PA Fed
Well: Perro Loco 22 B2PA Fed #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Perro Loco 22 B2PA Fed #1H
TVD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
MD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
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 (°)
11,173.0	91.20	1.50	10,372.8	999.5	-404.9	1,078.5	337.95
11,266.0	92.00	1.70	10,370.2	1,092.5	-402.3	1,164.2	339.78
11,359.0	90.20	2.40	10,368.4	1,185.4	-399.0	1,250.7	341.40
11,452.0	90.20	2.90	10,368.1	1,278.3	-394.7	1,337.8	342.84
11,545.0	90.60	3.10	10,367.4	1,371.2	-389.8	1,425.5	344.13
11,638.0	91.40	3.40	10,365.8	1,464.0	-384.6	1,513.7	345.28
11,732.0	90.60	1.80	10,364.2	1,557.9	-380.3	1,603.6	346.28
11,825.0	91.30	2.90	10,362.6	1,650.8	-376.5	1,693.2	347.15
11,918.0	88.90	1.20	10,362.5	1,743.7	-373.2	1,783.2	347.92
12,012.0	88.60	1.60	10,364.5	1,837.7	-370.9	1,874.7	348.59
12,105.0	90.20	0.20	10,365.5	1,930.6	-369.4	1,965.7	349.17
12,199.0	89.80	0.20	10,365.5	2,024.6	-369.1	2,058.0	349.67
12,292.0	91.00	359.70	10,364.8	2,117.6	-369.2	2,149.6	350.11
12,386.0	90.80	359.90	10,363.4	2,211.6	-369.5	2,242.3	350.52
12,479.0	92.40	359.50	10,360.8	2,304.6	-370.0	2,334.1	350.88
12,573.0	90.30	0.10	10,358.5	2,398.6	-370.3	2,427.0	351.22
12,666.0	90.10	359.80	10,358.2	2,491.6	-370.4	2,518.9	351.54
12,760.0	90.00	359.40	10,358.1	2,585.6	-371.0	2,612.0	351.83
12,853.0	90.20	359.50	10,358.0	2,678.5	-371.9	2,704.2	352.09
12,947.0	90.20	0.00	10,357.6	2,772.5	-372.3	2,797.4	352.35
13,041.0	93.50	0.50	10,354.6	2,866.5	-371.9	2,890.5	352.61
13,134.0	91.40	359.10	10,350.6	2,959.4	-372.3	2,982.7	352.83
13,228.0	91.80	359.40	10,348.0	3,053.3	-373.5	3,076.1	353.03
13,321.0	91.70	358.90	10,345.2	3,146.3	-374.9	3,168.5	353.21
13,415.0	91.70	358.60	10,342.4	3,240.2	-376.9	3,262.1	353.36
13,508.0	91.10	358.10	10,340.1	3,333.2	-379.6	3,354.7	353.50
13,601.0	90.10	358.00	10,339.1	3,426.1	-382.8	3,447.4	353.63



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 27-22-22S-34E Perro Loco 22 B2PA Fed
Well: Perro Loco 22 B2PA Fed #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Perro Loco 22 B2PA Fed #1H
TVD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
MD Reference: 3424 + 27 @ 3451.0usft (Patterson 250)
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 (°)
13,695.0	90.80	357.80	10,338.4	3,520.0	-386.2	3,541.2	353.74
13,788.0	90.20	357.20	10,337.6	3,612.9	-390.3	3,634.0	353.83
13,882.0	91.40	357.10	10,336.3	3,706.8	-394.9	3,727.8	353.92
13,976.0	91.60	356.00	10,333.8	3,800.6	-400.6	3,821.7	353.98
14,069.0	91.00	357.30	10,331.7	3,893.4	-406.0	3,914.5	354.05
14,162.0	93.50	359.80	10,328.1	3,986.3	-408.4	4,007.2	354.15
14,256.0	92.50	0.70	10,323.1	4,080.2	-408.0	4,100.5	354.29
14,348.0	92.70	0.70	10,319.0	4,172.1	-406.8	4,191.9	354.43
14,442.0	92.40	0.50	10,314.8	4,266.0	-405.9	4,285.2	354.57
14,535.0	92.40	0.20	10,310.9	4,358.9	-405.3	4,377.7	354.69
14,629.0	92.40	0.30	10,306.9	4,452.8	-404.9	4,471.2	354.80
14,722.0	91.60	359.80	10,303.7	4,545.8	-404.8	4,563.7	354.91
14,815.0	90.80	359.30	10,301.8	4,638.7	-405.5	4,656.4	355.00
14,909.0	90.60	359.10	10,300.6	4,732.7	-406.8	4,750.2	355.09
15,002.0	89.50	358.90	10,300.5	4,825.7	-408.5	4,843.0	355.16
15,096.0	89.50	358.00	10,301.3	4,919.7	-411.0	4,936.8	355.22
15,189.0	90.10	357.90	10,301.7	5,012.6	-414.3	5,029.7	355.27
15,325.0	90.10	357.90	10,301.4	5,148.5	-419.3	5,165.6	355.34

15325' MD Projected to Bit

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,325.0	10,301.4	5,148.5	-419.3	15325' MD Projected to Bit