



Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 34 27-21S-32E Bilbrey

Bilbrey 34-27 W0MD Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

10 September, 2019

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Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0MD Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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 34 27-21S-32E Bilbrey		
Site Position:		Northing:	520,274.70 usft
From:	Map	Easting:	746,968.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 25' 42.738 N
		Longitude:	103° 40' 0.737 W
		Grid Convergence:	0.36 °

Well	Bilbrey 34-27 W0MD Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 520,274.70 usft
	+E/-W	0.0 usft	Easting: 746,968.10 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 25' 42.738 N
		Longitude:	103° 40' 0.737 W
		Ground Level:	3,752.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	07/12/19	6.79
			Dip Angle
			(°)
			60.21
			Field Strength
			(nT)
			47,833.86347332

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
			(°)
			356.73

Survey Program	Date 09/05/19		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	912.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS
1,011.0	22,240.0	Stryker Surveys (Original Hole)	MWD
			Description
			surface readout gyro multishot
			MWD v3:standard declination

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.29	137.47	100.0	-0.2	0.2	-0.2	0.29	0.29	0.00
200.0	0.66	74.72	200.0	-0.2	0.9	-0.3	0.59	0.37	-62.75
300.0	0.59	308.00	300.0	0.2	1.0	0.2	1.12	-0.07	-126.72
400.0	0.55	117.62	400.0	0.3	1.1	0.3	1.14	-0.04	169.62
500.0	0.69	160.22	500.0	-0.4	1.7	-0.5	0.47	0.14	42.60
600.0	1.16	170.51	600.0	-2.0	2.1	-2.1	0.50	0.47	10.29
700.0	2.02	221.63	699.9	-4.3	1.1	-4.4	1.58	0.86	51.12
800.0	2.46	180.40	799.9	-7.8	-0.1	-7.8	1.63	0.44	-41.23
900.0	2.53	151.79	899.8	-11.9	0.9	-11.9	1.23	0.07	-28.61



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Well:	Bilbrey 34-27 W0MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
912.0	2.25	148.34	911.8	-12.3	1.2	-12.4	2.62	-2.33	-28.75
1,011.0	3.70	233.30	1,010.7	-15.9	-0.4	-15.8	4.20	1.46	85.82
1,200.0	0.30	59.50	1,199.5	-19.3	-4.9	-19.0	2.12	-1.80	-91.96
1,388.0	0.70	51.80	1,387.5	-18.3	-3.5	-18.1	0.22	0.21	-4.10
1,576.0	0.20	99.20	1,575.5	-17.7	-2.3	-17.5	0.31	-0.27	25.21
1,765.0	0.30	4.80	1,764.5	-17.2	-1.9	-17.1	0.20	0.05	-49.95
1,953.0	0.10	315.50	1,952.5	-16.6	-2.0	-16.5	0.13	-0.11	-26.22
2,140.0	0.10	134.00	2,139.5	-16.6	-2.0	-16.5	0.11	0.00	95.45
2,329.0	0.70	45.80	2,328.5	-15.9	-1.1	-15.8	0.37	0.32	-46.67
2,517.0	1.60	60.80	2,516.5	-13.8	2.1	-13.9	0.50	0.48	7.98
2,705.0	1.80	348.70	2,704.4	-9.7	3.8	-9.9	1.07	0.11	-38.35
2,894.0	1.00	94.80	2,893.4	-6.9	4.8	-7.2	1.21	-0.42	56.14
3,083.0	0.50	271.90	3,082.4	-7.0	5.7	-7.3	0.79	-0.26	93.70
3,271.0	0.50	288.00	3,270.4	-6.7	4.1	-6.9	0.07	0.00	8.56
3,460.0	0.60	295.80	3,459.4	-6.0	2.4	-6.2	0.07	0.05	4.13
3,647.0	0.60	255.70	3,646.4	-5.8	0.5	-5.9	0.22	0.00	-21.44
3,835.0	1.30	218.40	3,834.3	-7.8	-1.7	-7.6	0.48	0.37	-19.84
4,024.0	1.00	219.50	4,023.3	-10.7	-4.1	-10.5	0.16	-0.16	0.58
4,213.0	1.10	51.30	4,212.3	-10.9	-3.7	-10.6	1.11	0.05	-88.99
4,398.0	1.10	43.20	4,397.2	-8.4	-1.1	-8.4	0.08	0.00	-4.38
4,586.0	0.70	38.00	4,585.2	-6.2	0.8	-6.3	0.22	-0.21	-2.77
4,660.0	0.50	55.10	4,659.2	-5.7	1.3	-5.8	0.36	-0.27	23.11
4,740.0	0.60	24.80	4,739.2	-5.1	1.8	-5.2	0.38	0.13	-37.88
4,930.0	5.00	254.30	4,929.0	-6.4	-5.8	-6.1	2.85	2.32	-68.68
5,119.0	5.20	256.00	5,117.2	-10.7	-22.0	-9.5	0.13	0.11	0.90
5,305.0	5.10	255.10	5,302.5	-14.9	-38.2	-12.7	0.07	-0.05	-0.48
5,493.0	5.20	254.10	5,489.7	-19.4	-54.4	-16.3	0.07	0.05	-0.53
5,678.0	5.10	256.50	5,674.0	-23.6	-70.5	-19.5	0.13	-0.05	1.30
5,864.0	6.00	249.40	5,859.1	-29.0	-87.6	-23.9	0.61	0.48	-3.82
6,053.0	5.70	249.40	6,047.1	-35.7	-105.7	-29.6	0.16	-0.16	0.00
6,242.0	5.90	249.50	6,235.2	-42.4	-123.5	-35.3	0.11	0.11	0.05
6,432.0	5.80	247.30	6,424.2	-49.6	-141.5	-41.4	0.13	-0.05	-1.16
6,622.0	5.60	245.00	6,613.2	-57.2	-158.8	-48.0	0.16	-0.11	-1.21
6,812.0	4.70	245.10	6,802.5	-64.4	-174.3	-54.3	0.47	-0.47	0.05
7,001.0	4.70	239.50	6,990.8	-71.6	-188.0	-60.7	0.24	0.00	-2.96
7,190.0	5.60	251.00	7,179.1	-78.5	-203.4	-66.8	0.72	0.48	6.08
7,379.0	4.90	248.00	7,367.3	-84.5	-219.6	-71.9	0.40	-0.37	-1.59
7,568.0	4.70	244.40	7,555.6	-90.9	-234.0	-77.4	0.19	-0.11	-1.90
7,757.0	4.60	243.80	7,744.0	-97.6	-247.8	-83.3	0.06	-0.05	-0.32
7,947.0	4.00	248.70	7,933.5	-103.4	-260.8	-88.3	0.37	-0.32	2.58
8,137.0	4.00	252.80	8,123.0	-107.7	-273.3	-91.9	0.15	0.00	2.16
8,327.0	3.80	247.30	8,312.6	-112.1	-285.5	-95.6	0.22	-0.11	-2.89
8,517.0	3.80	249.70	8,502.1	-116.7	-297.2	-99.6	0.08	0.00	1.26



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
8,706.0	3.50	245.90	8,690.8	-121.3	-308.3	-103.5	0.20	-0.16	-2.01
8,895.0	3.30	245.10	8,879.4	-125.9	-318.5	-107.5	0.11	-0.11	-0.42
9,084.0	3.10	244.30	9,068.1	-130.4	-328.1	-111.5	0.11	-0.11	-0.42
9,274.0	3.60	253.50	9,257.8	-134.3	-338.4	-114.8	0.39	0.26	4.84
9,464.0	3.50	243.90	9,447.4	-138.6	-349.3	-118.4	0.32	-0.05	-5.05
9,653.0	3.00	244.30	9,636.1	-143.3	-359.0	-122.5	0.26	-0.26	0.21
9,843.0	3.90	253.20	9,825.8	-147.3	-369.6	-125.9	0.55	0.47	4.68
10,029.0	5.00	271.60	10,011.2	-148.9	-383.8	-126.7	0.96	0.59	9.89
10,219.0	5.40	264.70	10,200.5	-149.5	-401.0	-126.3	0.39	0.21	-3.63
10,408.0	6.40	274.80	10,388.5	-149.4	-420.3	-125.2	0.76	0.53	5.34
10,597.0	6.90	256.20	10,576.2	-151.3	-441.9	-125.8	1.16	0.26	-9.84
10,787.0	6.40	250.20	10,764.9	-157.6	-462.9	-130.9	0.45	-0.26	-3.16
10,977.0	4.70	253.30	10,954.0	-163.4	-480.3	-135.7	0.91	-0.89	1.63
11,166.0	4.50	249.20	11,142.4	-168.2	-494.7	-139.7	0.20	-0.11	-2.17
11,356.0	3.30	246.20	11,332.0	-173.1	-506.6	-143.9	0.64	-0.63	-1.58
11,424.0	2.50	244.60	11,399.9	-174.5	-509.8	-145.1	1.18	-1.18	-2.35
11,477.0	1.80	255.00	11,452.9	-175.2	-511.6	-145.7	1.51	-1.32	19.62
11,524.0	2.10	334.30	11,499.8	-174.7	-512.7	-145.1	5.32	0.64	168.72
11,572.0	8.70	354.90	11,547.6	-170.2	-513.4	-140.6	14.11	13.75	42.92
11,619.0	18.20	1.70	11,593.3	-159.3	-513.5	-129.8	20.46	20.21	14.47
11,667.0	24.50	3.10	11,637.9	-141.9	-512.7	-112.4	13.17	13.13	2.92
11,714.0	27.70	3.40	11,680.1	-121.2	-511.6	-91.8	6.81	6.81	0.64
11,762.0	31.50	2.40	11,721.9	-97.6	-510.4	-68.3	7.98	7.92	-2.08
11,809.0	35.10	1.90	11,761.1	-71.8	-509.4	-42.6	7.68	7.66	-1.06
11,856.0	39.40	3.00	11,798.6	-43.4	-508.2	-14.3	9.26	9.15	2.34
11,903.0	43.60	3.40	11,833.7	-12.3	-506.5	16.6	8.95	8.94	0.85
11,951.0	48.60	3.60	11,867.0	22.2	-504.3	51.0	10.42	10.42	0.42
11,998.0	52.10	2.90	11,897.0	58.3	-502.3	86.9	7.53	7.45	-1.49
12,046.0	57.10	2.00	11,924.8	97.4	-500.6	125.8	10.53	10.42	-1.88
12,093.0	62.40	1.20	11,948.5	138.0	-499.5	166.3	11.37	11.28	-1.70
12,140.0	69.80	0.60	11,967.5	180.9	-498.8	209.1	15.79	15.74	-1.28
12,163.0	74.60	359.90	11,974.5	202.8	-498.7	231.0	21.07	20.87	-3.04
12,209.0	79.80	0.10	11,984.7	247.7	-498.7	275.7	11.31	11.30	0.43
12,241.0	82.90	359.00	11,989.5	279.3	-499.0	307.3	10.27	9.69	-3.44
12,272.0	84.90	358.00	11,992.8	310.1	-499.8	338.1	7.20	6.45	-3.23
12,304.0	85.60	358.00	11,995.5	342.0	-500.9	370.0	2.19	2.19	0.00
12,335.0	87.60	357.60	11,997.3	372.9	-502.1	401.0	6.58	6.45	-1.29
12,367.0	89.40	357.60	11,998.1	404.9	-503.4	432.9	5.63	5.63	0.00
12,462.0	89.50	357.90	11,999.1	499.8	-507.2	527.9	0.33	0.11	0.32
12,556.0	88.70	357.60	12,000.5	593.7	-510.9	621.9	0.91	-0.85	-0.32
12,651.0	89.30	357.50	12,002.2	688.6	-514.9	716.9	0.64	0.63	-0.11
12,745.0	91.40	357.80	12,001.6	782.5	-518.8	810.8	2.26	2.23	0.32
12,840.0	89.00	358.60	12,001.3	877.4	-521.8	905.8	2.66	-2.53	0.84



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey

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12,934.0	89.50	357.30	12,002.5	971.4	-525.1	999.8	1.48	0.53	-1.38
13,029.0	89.10	357.30	12,003.7	1,066.3	-529.6	1,094.8	0.42	-0.42	0.00
13,124.0	91.70	358.30	12,003.0	1,161.2	-533.2	1,189.7	2.93	2.74	1.05
13,220.0	91.30	358.30	12,000.5	1,257.1	-536.1	1,285.7	0.42	-0.42	0.00
13,314.0	89.50	359.00	11,999.8	1,351.1	-538.3	1,379.6	2.05	-1.91	0.74
13,409.0	91.20	359.70	11,999.3	1,446.1	-539.4	1,474.5	1.94	1.79	0.74
13,503.0	90.90	359.20	11,997.5	1,540.0	-540.3	1,568.4	0.62	-0.32	-0.53
13,598.0	92.40	359.60	11,994.8	1,635.0	-541.3	1,663.2	1.63	1.58	0.42
13,693.0	90.10	358.30	11,992.7	1,729.9	-543.0	1,758.1	2.78	-2.42	-1.37
13,788.0	91.80	0.60	11,991.2	1,824.9	-543.9	1,853.0	3.01	1.79	2.42
13,882.0	90.50	0.20	11,989.3	1,918.9	-543.3	1,946.8	1.45	-1.38	-0.43
13,976.0	93.10	3.90	11,986.3	2,012.8	-539.9	2,040.3	4.81	2.77	3.94
14,071.0	92.00	4.10	11,982.1	2,107.4	-533.3	2,134.5	1.18	-1.16	0.21
14,165.0	91.60	1.70	11,979.1	2,201.3	-528.5	2,227.9	2.59	-0.43	-2.55
14,259.0	91.90	1.20	11,976.3	2,295.2	-526.2	2,321.5	0.62	0.32	-0.53
14,354.0	89.90	0.10	11,974.8	2,390.2	-525.1	2,416.3	2.40	-2.11	-1.16
14,448.0	92.10	4.10	11,973.1	2,484.1	-521.6	2,509.8	4.86	2.34	4.26
14,543.0	88.00	1.50	11,973.1	2,578.9	-517.0	2,604.2	5.11	-4.32	-2.74
14,636.0	87.10	2.20	11,977.0	2,671.8	-514.0	2,696.8	1.23	-0.97	0.75
14,731.0	89.10	1.30	11,980.2	2,766.7	-511.1	2,791.4	2.31	2.11	-0.95
14,825.0	89.10	359.40	11,981.7	2,860.7	-510.5	2,885.2	2.02	0.00	-2.02
14,919.0	91.10	0.00	11,981.5	2,954.7	-511.0	2,979.0	2.22	2.13	0.64
15,014.0	90.90	0.90	11,979.8	3,049.6	-510.3	3,073.8	0.97	-0.21	0.95
15,109.0	90.60	359.00	11,978.6	3,144.6	-510.4	3,168.6	2.02	-0.32	-2.00
15,203.0	91.10	357.80	11,977.2	3,238.6	-513.0	3,262.6	1.38	0.53	-1.28
15,298.0	91.40	358.30	11,975.1	3,333.5	-516.2	3,357.5	0.61	0.32	0.53
15,392.0	91.10	359.20	11,973.1	3,427.5	-518.3	3,451.5	1.01	-0.32	0.96
15,487.0	89.50	358.90	11,972.6	3,522.4	-519.8	3,546.4	1.71	-1.68	-0.32
15,581.0	91.10	359.30	11,972.1	3,616.4	-521.3	3,640.3	1.75	1.70	0.43
15,675.0	92.90	1.80	11,968.8	3,710.4	-520.4	3,734.0	3.28	1.91	2.66
15,769.0	92.00	358.80	11,964.8	3,804.3	-519.9	3,827.7	3.33	-0.96	-3.19
15,863.0	90.90	357.50	11,962.4	3,898.2	-523.0	3,921.7	1.81	-1.17	-1.38
15,957.0	91.10	358.00	11,960.8	3,992.1	-526.7	4,015.6	0.57	0.21	0.53
16,051.0	89.50	358.00	11,960.3	4,086.0	-529.9	4,109.6	1.70	-1.70	0.00
16,146.0	89.80	359.00	11,960.9	4,181.0	-532.4	4,204.6	1.10	0.32	1.05
16,241.0	90.80	0.80	11,960.4	4,276.0	-532.6	4,299.4	2.17	1.05	1.89
16,336.0	92.80	4.60	11,957.4	4,370.8	-528.1	4,393.8	4.52	2.11	4.00
16,430.0	89.50	4.10	11,955.5	4,464.5	-521.0	4,487.0	3.55	-3.51	-0.53
16,525.0	89.90	2.80	11,956.0	4,559.3	-515.3	4,581.3	1.43	0.42	-1.37
16,619.0	88.00	0.90	11,957.7	4,653.3	-512.2	4,674.9	2.86	-2.02	-2.02
16,714.0	91.10	359.80	11,958.5	4,748.2	-511.7	4,769.7	3.46	3.26	-1.16
16,809.0	92.50	359.00	11,955.5	4,843.2	-512.7	4,864.6	1.70	1.47	-0.84
16,904.0	92.50	359.60	11,951.3	4,938.1	-513.8	4,959.4	0.63	0.00	0.63
16,998.0	89.40	358.10	11,949.8	5,032.0	-515.7	5,053.3	3.66	-3.30	-1.60



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0MD Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
17,093.0	89.30	359.00	11,950.8	5,127.0	-518.1	5,148.2	0.95	-0.11	0.95
17,188.0	88.60	358.30	11,952.6	5,222.0	-520.3	5,243.1	1.04	-0.74	-0.74
17,282.0	92.60	358.40	11,951.6	5,315.9	-523.0	5,337.1	4.26	4.26	0.11
17,377.0	93.50	358.10	11,946.5	5,410.7	-525.9	5,431.9	1.00	0.95	-0.32
17,472.0	90.60	358.30	11,943.1	5,505.6	-528.9	5,526.8	3.06	-3.05	0.21
17,566.0	88.80	358.30	11,943.6	5,599.5	-531.7	5,620.8	1.91	-1.91	0.00
17,661.0	90.40	357.80	11,944.3	5,694.5	-534.9	5,715.7	1.76	1.68	-0.53
17,756.0	92.00	359.60	11,942.3	5,789.4	-537.1	5,810.7	2.53	1.68	1.89
17,851.0	93.10	1.30	11,938.1	5,884.3	-536.4	5,905.4	2.13	1.16	1.79
17,946.0	89.70	1.30	11,935.8	5,979.3	-534.2	6,000.0	3.58	-3.58	0.00
18,041.0	89.80	1.20	11,936.2	6,074.2	-532.1	6,094.7	0.15	0.11	-0.11
18,135.0	92.90	5.10	11,934.0	6,168.0	-527.0	6,188.1	5.30	3.30	4.15
18,230.0	92.10	2.80	11,929.8	6,262.7	-520.4	6,282.2	2.56	-0.84	-2.42
18,325.0	89.70	359.90	11,928.3	6,357.7	-518.2	6,376.9	3.96	-2.53	-3.05
18,416.0	90.90	1.00	11,927.9	6,448.7	-517.5	6,467.7	1.79	1.32	1.21
18,511.0	90.80	0.90	11,926.4	6,543.6	-515.9	6,562.4	0.15	-0.11	-0.11
18,606.0	89.80	359.40	11,925.9	6,638.6	-515.7	6,657.2	1.90	-1.05	-1.58
18,700.0	90.60	359.00	11,925.6	6,732.6	-517.0	6,751.2	0.95	0.85	-0.43
18,795.0	91.60	0.00	11,923.8	6,827.6	-517.8	6,846.0	1.49	1.05	1.05
18,890.0	92.40	359.30	11,920.5	6,922.5	-518.4	6,940.8	1.12	0.84	-0.74
18,985.0	92.90	359.10	11,916.1	7,017.4	-519.7	7,035.7	0.57	0.53	-0.21
19,080.0	93.00	359.20	11,911.2	7,112.3	-521.1	7,130.4	0.15	0.11	0.11
19,137.0	94.10	359.00	11,907.7	7,169.2	-522.0	7,187.3	1.96	1.93	-0.35
19,179.0	92.90	358.00	11,905.1	7,211.1	-523.1	7,229.2	3.72	-2.86	-2.38
19,273.0	87.40	356.00	11,904.9	7,304.9	-528.0	7,323.1	6.23	-5.85	-2.13
19,368.0	88.10	356.30	11,908.6	7,399.6	-534.4	7,418.1	0.80	0.74	0.32
19,462.0	87.70	355.90	11,912.0	7,493.3	-540.8	7,512.0	0.60	-0.43	-0.43
19,557.0	86.90	355.00	11,916.5	7,587.9	-548.3	7,606.9	1.27	-0.84	-0.95
19,652.0	87.60	358.30	11,921.1	7,682.6	-553.9	7,701.7	3.55	0.74	3.47
19,747.0	90.20	358.70	11,922.9	7,777.6	-556.3	7,796.7	2.77	2.74	0.42
19,841.0	92.20	358.50	11,920.9	7,871.5	-558.6	7,890.6	2.14	2.13	-0.21
19,936.0	92.10	358.70	11,917.4	7,966.4	-561.0	7,985.5	0.24	-0.11	0.21
20,031.0	90.50	358.50	11,915.2	8,061.4	-563.3	8,080.4	1.70	-1.68	-0.21
20,126.0	92.00	0.20	11,913.1	8,156.3	-564.4	8,175.3	2.39	1.58	1.79
20,221.0	91.10	359.50	11,910.6	8,251.3	-564.6	8,270.1	1.20	-0.95	-0.74
20,316.0	90.60	358.90	11,909.1	8,346.3	-565.9	8,365.0	0.82	-0.53	-0.63
20,411.0	90.30	358.80	11,908.4	8,441.3	-567.8	8,459.9	0.33	-0.32	-0.11
20,506.0	90.10	358.60	11,908.1	8,536.2	-570.0	8,554.9	0.30	-0.21	-0.21
20,601.0	89.80	358.30	11,908.2	8,631.2	-572.6	8,649.8	0.45	-0.32	-0.32
20,696.0	89.00	357.30	11,909.1	8,726.1	-576.2	8,744.8	1.35	-0.84	-1.05
20,791.0	88.90	356.80	11,910.9	8,821.0	-581.1	8,839.8	0.54	-0.11	-0.53
20,886.0	89.40	355.90	11,912.3	8,915.8	-587.1	8,934.8	1.08	0.53	-0.95
20,981.0	90.40	355.30	11,912.5	9,010.5	-594.4	9,029.7	1.23	1.05	-0.63



Stryker Energy Directional Services

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 W0MD Fed Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Site:	Section 34 27-21S-32E Bilbrey	MD Reference:	3752+27 @ 3779.0usft (Patterson 217)
Well:	Bilbrey 34-27 W0MD Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
21,075.0	93.30	356.60	11,909.4	9,104.2	-601.1	9,123.7	3.38	3.09	1.38
21,170.0	89.10	358.10	11,907.4	9,199.1	-605.5	9,218.6	4.69	-4.42	1.58
21,264.0	87.20	357.60	11,910.5	9,292.9	-609.0	9,312.6	2.09	-2.02	-0.53
21,359.0	89.30	356.80	11,913.4	9,387.8	-613.6	9,407.5	2.37	2.21	-0.84
21,454.0	90.60	358.80	11,913.5	9,482.7	-617.3	9,502.5	2.51	1.37	2.11
21,548.0	92.00	0.30	11,911.3	9,576.7	-618.0	9,596.3	2.18	1.49	1.60
21,643.0	92.50	0.50	11,907.6	9,671.6	-617.3	9,691.1	0.57	0.53	0.21
21,738.0	92.60	1.20	11,903.4	9,766.5	-615.9	9,785.7	0.74	0.11	0.74
21,833.0	91.30	4.30	11,900.1	9,861.3	-611.4	9,880.1	3.54	-1.37	3.26
21,927.0	89.80	2.40	11,899.2	9,955.1	-605.9	9,973.5	2.58	-1.60	-2.02
22,022.0	89.90	2.70	11,899.5	10,050.0	-601.7	10,068.0	0.33	0.11	0.32
22,117.0	90.40	4.10	11,899.2	10,144.9	-596.0	10,162.4	1.56	0.53	1.47
22,192.0	90.90	4.10	11,898.4	10,219.7	-590.7	10,236.7	0.67	0.67	0.00
22,240.0	90.90	4.10	11,897.6	10,267.5	-587.2	10,284.3	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	+N/-S (usft)	+E/-W (usft)	Comment
22,240.0	11,897.6	10,267.5	-587.2		22240.0' Projection to bit

Checked By: _____ Approved By: _____ Date: _____

STRYKER

DIRECTIONAL

January 2, 2020

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
Bilbrey 34 27 W0MD Federal Com #1H
Wolfcamp Y Sand
Lea County, New Mexico
API# 30-025-46262

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>
Gregg Morris	Original Hole	1,011ft. to 22,192ft.	08-04-19 to 09-05-19	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\Bilbrey 34 27 W0MD Fed Com #1HM191159

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



January 2, 2020

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 August 4, 2019, through September 5, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,011 feet to a depth of 22,192 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 Bilbrey 34 27 W0MD Federal Com #1H, well API # 30-025-46262 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



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34 27-21S-32E Billbrey
Well: Billbrey 34-27 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Billbrey 34-27 W0MD Fed Com #1H
TVD Reference: 3762+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey Program		Date 09/05/19										
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description								
100.0	912.0	Gyro Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot								
1,011.0	22,240.0	Stryker Surveys (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 (")	DLeg ("/100usft)	Northing (usft)	Easting (usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	520,274.70	748,988.10		
100.0	0.29	137.47	100.0	-0.2	0.2	0.3	137.47	0.29	520,274.51	748,988.27		
200.0	0.88	74.72	200.0	-0.2	0.9	0.9	103.84	0.59	520,274.48	748,989.00		
300.0	0.59	308.00	300.0	0.2	1.0	1.1	78.70	1.12	520,274.95	748,989.15		
400.0	0.55	117.82	400.0	0.3	1.1	1.1	72.23	1.14	520,275.04	748,989.17		
500.0	0.69	160.22	500.0	-0.4	1.7	1.8	104.77	0.47	520,274.25	748,989.80		
600.0	1.16	170.51	600.0	-2.0	2.1	2.9	134.23	0.50	520,272.89	748,970.17		
700.0	2.02	221.63	699.9	-4.3	1.1	4.5	168.20	1.58	520,270.37	748,969.16		
800.0	2.46	180.40	799.9	-7.8	-0.1	7.8	180.90	1.63	520,268.91	748,967.98		
900.0	2.53	151.79	899.8	-11.9	0.9	11.9	175.64	1.23	520,262.82	748,969.01		
912.0	2.25	148.34	911.8	-12.3	1.2	12.4	174.65	2.62	520,262.38	748,969.25		
1,011.0	3.70	233.30	1,010.7	-15.9	-0.4	15.9	181.40	4.20	520,258.82	748,987.71		
1,200.0	0.30	59.50	1,199.5	-19.3	-4.9	19.9	194.13	2.12	520,255.42	748,983.25		
1,388.0	0.70	51.80	1,387.5	-18.3	-3.5	18.7	190.90	0.22	520,256.38	748,984.57		
1,578.0	0.20	99.20	1,575.5	-17.7	-2.3	17.8	187.42	0.31	520,257.04	748,985.80		
1,765.0	0.30	4.80	1,764.5	-17.2	-1.9	17.3	186.40	0.20	520,257.48	748,986.17		
1,953.0	0.10	315.50	1,952.5	-18.6	-2.0	18.7	186.89	0.13	520,258.09	748,986.09		
2,140.0	0.10	134.00	2,139.5	-18.6	-2.0	18.7	186.88	0.11	520,258.09	748,986.10		
2,329.0	0.70	45.80	2,328.5	-15.9	-1.1	16.0	183.80	0.37	520,258.78	748,987.04		
2,517.0	1.80	60.80	2,516.5	-13.8	2.1	14.0	171.54	0.50	520,260.86	748,970.16		
2,705.0	1.80	348.70	2,704.4	-9.7	3.8	10.4	158.68	1.07	520,265.04	748,971.87		



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34 27-21S-32E Billbrey
Well: Billbrey 34-27 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Billbrey 34-27 W0MD Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,894.0	1.00	94.80	2,893.4	-6.9	4.8	8.4	144.94	1.21	520,267.81	748,972.93
3,083.0	0.50	271.80	3,082.4	-7.0	5.7	9.0	141.07	0.79	520,267.70	748,973.75
3,271.0	0.50	288.00	3,270.4	-6.7	4.1	7.8	148.90	0.07	520,267.88	748,972.15
3,460.0	0.60	295.80	3,459.4	-6.0	2.4	6.5	158.50	0.07	520,268.67	748,970.48
3,647.0	0.80	255.70	3,646.4	-5.8	0.5	5.9	174.67	0.22	520,268.65	748,968.65
3,835.0	1.30	218.40	3,834.3	-7.8	-1.7	8.0	192.58	0.48	520,268.94	748,968.37
4,024.0	1.00	219.50	4,023.3	-10.7	-4.1	11.5	201.00	0.16	520,263.99	748,963.99
4,213.0	1.10	51.30	4,212.3	-10.9	-3.7	11.5	199.05	1.11	520,263.85	748,964.35
4,398.0	1.10	43.20	4,397.2	-8.4	-1.1	8.5	187.72	0.08	520,266.25	748,966.95
4,586.0	0.70	38.00	4,585.2	-6.2	0.8	6.3	172.70	0.22	520,268.47	748,968.90
4,680.0	0.50	55.10	4,659.2	-5.7	1.3	5.8	166.74	0.36	520,269.01	748,969.44
4,740.0	0.60	24.80	4,739.2	-5.1	1.8	5.4	160.56	0.38	520,269.69	748,969.90
4,930.0	5.00	254.30	4,928.0	-8.4	-5.8	8.6	221.77	2.85	520,268.26	748,962.34
5,119.0	5.20	256.00	5,117.2	-10.7	-22.0	24.5	243.66	0.13	520,263.95	748,948.10
5,305.0	5.10	255.10	5,302.5	-14.9	-38.2	41.0	248.66	0.07	520,259.79	748,929.94
5,493.0	5.20	254.10	5,489.7	-19.4	-54.4	57.8	250.39	0.07	520,255.31	748,913.67
5,678.0	5.10	256.50	5,674.0	-23.6	-70.5	74.3	251.48	0.13	520,251.09	748,897.61
5,864.0	6.00	249.40	5,859.1	-29.0	-87.6	92.3	251.71	0.61	520,245.74	748,880.47
6,053.0	5.70	249.40	6,047.1	-35.7	-105.7	111.5	251.31	0.16	520,238.96	748,862.44
6,242.0	5.90	249.50	6,235.2	-42.4	-123.5	130.6	251.04	0.11	520,232.26	748,844.55
6,432.0	5.80	247.30	6,424.2	-49.6	-141.5	150.0	250.70	0.13	520,225.13	748,826.55
6,622.0	5.60	245.00	6,613.2	-57.2	-158.8	168.8	250.20	0.16	520,217.51	748,809.29
6,812.0	4.70	245.10	6,802.5	-64.4	-174.3	185.8	249.72	0.47	520,210.32	748,793.83
7,001.0	4.70	239.50	6,990.8	-71.6	-188.0	201.1	249.15	0.24	520,203.13	748,780.13
7,190.0	5.60	251.00	7,178.1	-78.5	-203.4	218.0	248.89	0.72	520,196.19	748,764.74
7,379.0	4.90	248.00	7,367.3	-84.5	-219.6	235.3	248.94	0.40	520,190.17	748,748.54
7,568.0	4.70	244.40	7,555.6	-90.9	-234.0	251.1	248.77	0.19	520,183.60	748,734.07



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34 27-21S-32E Bilbrey
Well: Bilbrey 34-27 WMD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 WMD Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,757.0	4.60	243.80	7,744.0	-97.6	-247.8	266.3	248.50	0.08	520,177.11	746,720.29
7,947.0	4.00	248.70	7,933.5	-103.4	-260.8	280.6	248.38	0.37	520,171.33	746,707.28
8,137.0	4.00	252.80	8,123.0	-107.7	-273.3	293.8	248.49	0.15	520,168.97	746,694.77
8,327.0	3.80	247.30	8,312.6	-112.1	-285.5	308.7	248.56	0.22	520,162.58	746,682.63
8,517.0	3.80	249.70	8,502.1	-118.7	-297.2	319.3	248.55	0.08	520,157.98	746,670.92
8,708.0	3.50	245.90	8,690.8	-121.3	-308.3	331.3	248.53	0.20	520,153.44	746,659.78
8,895.0	3.30	245.10	8,879.4	-125.9	-318.5	342.5	248.43	0.11	520,148.79	746,649.58
9,084.0	3.10	244.30	9,068.1	-130.4	-328.1	353.0	248.32	0.11	520,144.28	746,640.04
9,274.0	3.60	253.50	9,257.8	-134.3	-338.4	364.1	248.35	0.39	520,140.36	746,629.89
9,464.0	3.50	243.90	9,447.4	-138.6	-349.3	375.8	248.38	0.32	520,136.12	746,618.76
9,653.0	3.00	244.30	9,636.1	-143.3	-359.0	386.5	248.24	0.26	520,131.43	746,609.13
9,843.0	3.90	253.20	9,825.8	-147.3	-369.6	397.9	248.27	0.55	520,127.41	746,598.46
10,029.0	5.00	271.80	10,011.2	-148.9	-383.8	411.7	248.80	0.96	520,125.81	746,584.30
10,219.0	5.40	264.70	10,200.5	-148.5	-401.0	427.9	249.55	0.39	520,125.21	746,587.12
10,408.0	6.40	274.80	10,388.5	-148.4	-420.3	446.1	250.43	0.76	520,125.27	746,547.77
10,597.0	6.90	256.20	10,576.2	-151.3	-441.9	467.0	251.10	1.16	520,123.44	746,526.25
10,787.0	6.40	250.20	10,764.9	-157.6	-462.9	489.0	251.20	0.45	520,117.14	746,505.20
10,977.0	4.70	253.30	10,954.0	-163.4	-480.3	507.4	251.21	0.91	520,111.31	746,487.78
11,166.0	4.50	249.20	11,142.4	-168.2	-494.7	522.5	251.22	0.20	520,106.45	746,473.43
11,356.0	3.30	246.20	11,332.0	-173.1	-506.6	535.4	251.14	0.64	520,101.80	746,481.46
11,424.0	2.50	244.60	11,399.9	-174.5	-509.8	538.8	251.10	1.18	520,100.17	746,458.33
11,477.0	1.80	255.00	11,452.9	-175.2	-511.6	540.8	251.09	1.51	520,099.46	746,456.48
11,524.0	2.10	334.30	11,499.8	-174.7	-512.7	541.6	251.19	5.32	520,100.05	746,455.39
11,572.0	8.70	354.90	11,547.6	-170.2	-513.4	540.9	251.66	14.11	520,104.46	746,454.69
11,618.0	18.20	1.70	11,593.3	-159.3	-513.5	537.7	252.76	20.46	520,115.38	746,454.59
11,667.0	24.50	3.10	11,637.9	-141.9	-512.7	532.0	254.53	13.17	520,132.81	746,455.35
11,714.0	27.70	3.40	11,680.1	-121.2	-511.6	525.7	256.67	6.81	520,153.45	746,456.53



Stryker Energy Directional Services
Survey Report Landscape



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Well: Bilbrey 34-27 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 W0MD Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
11,762.0	31.50	2.40	11,721.9	-97.8	-510.4	519.8	259.18	7.98	520,177.13	748,457.71	
11,809.0	35.10	1.90	11,761.2	-71.8	-509.4	514.5	261.98	7.68	520,202.91	748,458.88	
11,856.0	39.40	3.00	11,798.8	-43.4	-508.2	510.0	265.12	9.26	520,231.32	748,459.90	
11,903.0	43.60	3.40	11,833.7	-12.3	-506.5	506.6	268.61	8.95	520,262.41	748,461.65	
11,951.0	48.60	3.60	11,867.0	22.2	-504.3	504.8	272.52	10.42	520,296.92	748,463.76	
11,998.0	52.10	2.90	11,897.0	58.3	-502.3	505.7	276.63	7.53	520,333.05	748,465.81	
12,046.0	57.10	2.00	11,924.8	97.4	-500.6	510.0	281.01	10.53	520,372.12	748,467.47	
12,093.0	62.40	1.20	11,948.5	138.0	-499.5	518.2	285.44	11.37	520,412.69	748,468.59	
12,140.0	69.80	0.60	11,967.5	180.9	-498.8	530.6	289.94	15.79	520,455.63	748,469.26	
12,163.0	74.60	359.90	11,974.5	202.8	-498.7	538.4	292.13	21.07	520,477.52	748,469.36	
12,209.0	79.80	0.10	11,984.7	247.7	-498.7	556.8	296.41	11.31	520,522.36	748,469.36	
12,241.0	82.90	359.00	11,989.5	279.3	-499.0	571.8	299.24	10.27	520,553.99	748,469.11	
12,272.0	84.90	358.00	11,992.8	310.1	-499.8	588.2	301.82	7.20	520,584.80	748,468.30	
12,304.0	85.60	358.00	11,995.5	342.0	-500.9	606.5	304.32	2.19	520,616.67	748,467.19	
12,335.0	87.60	357.60	11,997.3	372.9	-502.1	625.4	306.60	6.58	520,647.60	748,466.00	
12,367.0	89.40	357.60	11,998.1	404.9	-503.4	646.0	308.81	5.62	520,679.55	748,464.66	
12,462.0	89.50	357.90	11,999.1	499.8	-507.2	712.0	314.56	0.33	520,774.48	748,460.93	
12,556.0	88.70	357.60	12,000.5	593.7	-510.9	783.2	319.29	0.91	520,868.39	748,457.24	
12,651.0	89.30	357.50	12,002.2	686.6	-514.9	859.8	323.21	0.64	520,963.29	748,453.18	
12,745.0	91.40	357.80	12,001.6	782.5	-518.8	938.9	326.46	2.26	521,057.20	748,449.33	
12,840.0	89.00	358.60	12,001.3	877.4	-521.8	1,020.9	329.26	2.66	521,152.15	748,446.34	
12,934.0	89.50	357.30	12,002.5	971.4	-525.1	1,104.2	331.60	1.48	521,246.08	748,442.98	
13,029.0	89.10	357.30	12,003.7	1,066.3	-529.6	1,190.5	333.59	0.42	521,340.97	748,438.50	
13,124.0	91.70	358.30	12,003.0	1,161.2	-533.2	1,277.8	335.33	2.93	521,435.88	748,434.86	
13,220.0	91.30	358.30	12,000.5	1,257.1	-536.1	1,366.6	336.90	0.42	521,531.81	748,432.01	
13,314.0	89.50	359.00	11,999.8	1,351.1	-538.3	1,454.4	338.28	2.05	521,625.78	748,429.80	
13,409.0	91.20	359.70	11,999.3	1,446.1	-539.4	1,543.4	339.54	1.94	521,720.76	748,428.72	



Stryker Energy Directional Services
Survey Report Landscape



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Site: Section 34 27-21S-32E Billbrey
Well: Billbrey 34-27 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Billbrey 34-27 W0MD Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,503.0	90.90	359.20	11,997.5	1,540.0	-540.3	1,632.1	340.67	0.62	521,814.74	748,427.82
13,598.0	92.40	359.60	11,994.8	1,635.0	-541.3	1,722.3	341.68	1.63	521,909.70	748,428.82
13,693.0	90.10	358.30	11,992.7	1,729.9	-543.0	1,813.2	342.57	2.78	522,004.65	748,425.08
13,788.0	91.80	0.60	11,991.2	1,824.9	-543.9	1,904.3	343.40	3.01	522,099.62	748,424.17
13,882.0	90.50	0.20	11,989.3	1,918.9	-543.3	1,994.3	344.19	1.45	522,193.80	748,424.83
13,976.0	93.10	3.90	11,986.3	2,012.8	-539.9	2,083.9	344.98	4.81	522,287.47	748,428.18
14,071.0	92.00	4.10	11,982.1	2,107.4	-533.3	2,173.9	345.80	1.18	522,382.14	748,434.80
14,165.0	91.60	1.70	11,979.1	2,201.3	-528.5	2,263.8	346.50	2.69	522,476.97	748,439.56
14,259.0	91.90	1.20	11,976.3	2,295.2	-526.2	2,354.7	347.09	0.62	522,569.89	748,441.93
14,354.0	89.90	0.10	11,974.8	2,390.2	-525.1	2,447.2	347.81	2.40	522,664.87	748,443.01
14,448.0	92.10	4.10	11,973.1	2,484.1	-521.6	2,538.2	348.14	4.86	522,758.77	748,446.45
14,543.0	88.00	1.50	11,973.1	2,578.9	-517.0	2,630.2	348.66	5.11	522,853.62	748,451.09
14,636.0	87.10	2.20	11,977.0	2,671.8	-514.0	2,720.8	349.11	1.23	522,946.49	748,454.09
14,731.0	89.10	1.30	11,980.2	2,766.7	-511.1	2,813.5	349.53	2.31	523,041.39	748,456.99
14,825.0	89.10	359.40	11,981.7	2,860.7	-510.5	2,905.9	349.88	2.02	523,135.37	748,457.56
14,919.0	91.10	0.00	11,981.5	2,954.7	-511.0	2,998.5	350.19	2.22	523,229.36	748,457.07
15,014.0	90.90	0.90	11,979.8	3,049.6	-510.3	3,092.0	350.50	0.97	523,324.34	748,457.82
15,109.0	90.60	359.00	11,978.6	3,144.6	-510.4	3,185.8	350.78	2.02	523,419.33	748,457.74
15,203.0	91.10	357.80	11,977.2	3,238.6	-513.0	3,279.0	351.00	1.38	523,513.28	748,455.11
15,298.0	91.40	358.30	11,975.1	3,333.5	-516.2	3,373.2	351.20	0.61	523,608.20	748,451.88
15,392.0	91.10	359.20	11,973.1	3,427.5	-518.3	3,466.4	351.40	1.01	523,702.16	748,449.83
15,487.0	89.50	358.90	11,972.6	3,522.4	-519.8	3,560.6	351.60	1.71	523,797.14	748,448.25
15,581.0	91.10	359.30	11,972.1	3,616.4	-521.3	3,653.8	351.80	1.75	523,891.13	748,446.78
15,675.0	92.90	1.60	11,968.8	3,710.4	-520.4	3,746.7	352.02	3.28	523,985.05	748,447.68
15,769.0	92.00	358.80	11,964.8	3,804.3	-518.9	3,839.6	352.22	3.33	524,078.95	748,448.17
15,863.0	90.90	357.50	11,962.4	3,898.2	-523.0	3,933.1	352.36	1.81	524,172.87	748,445.14
15,957.0	91.10	358.00	11,960.8	3,992.1	-526.7	4,026.7	352.48	0.57	524,266.78	748,441.45



Stryker Energy Directional Services

Survey Report Landscape

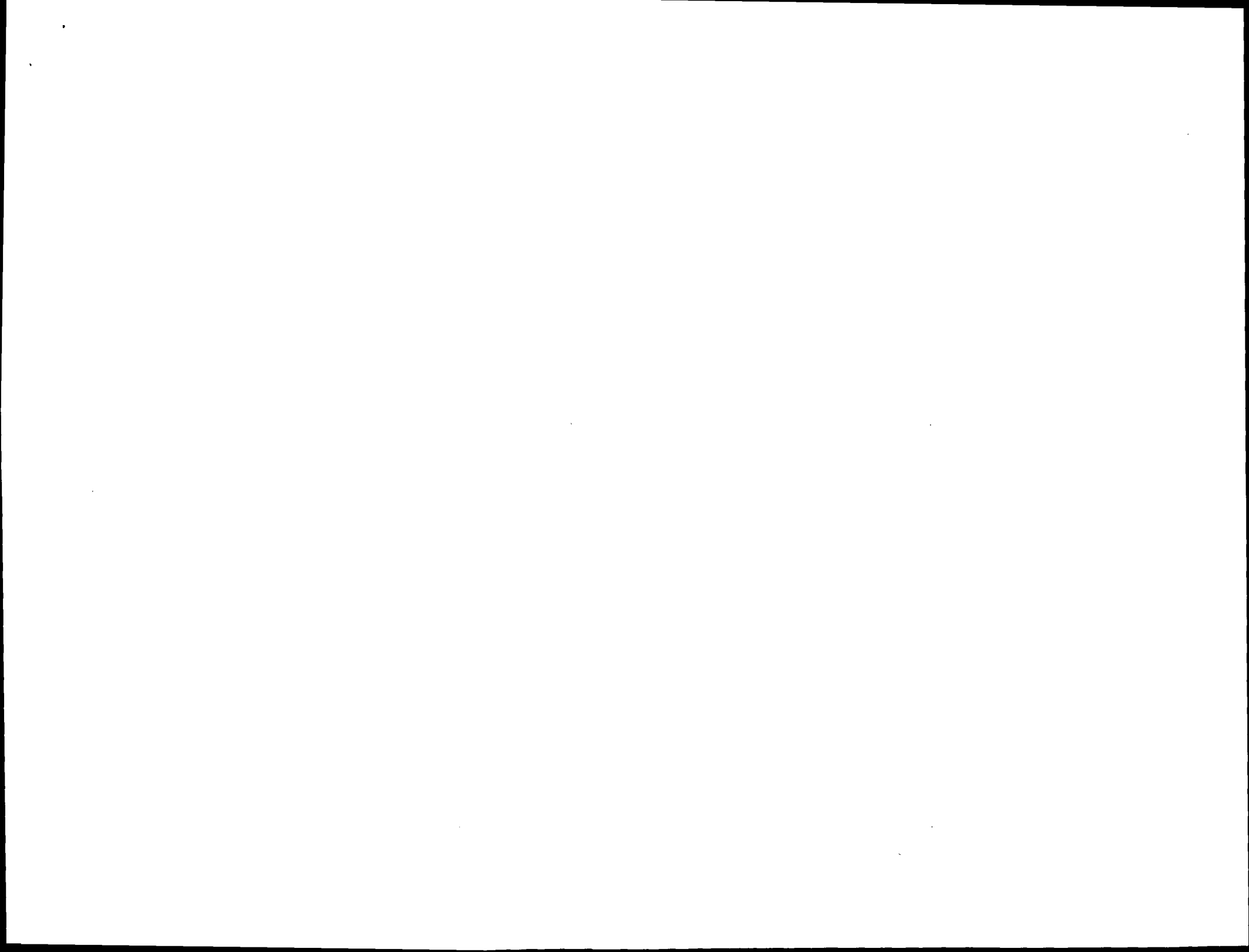


Company: Mewbourne Oil Company
 Project: Lea County N. M. Nad (83)
 Site: Section 34 27-21S-32E Bilbrey
 Well: Bilbrey 34-27 W0MD Fed Com #1H
 Wellbore: Original Hole
 Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 W0MD Fed Com #1H
 TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
 MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
16,051.0	89.50	358.00	11,960.3	4,088.0	-529.9	4,120.2	352.61	1.70	524,360.72	748,438.17
16,146.0	89.80	359.00	11,960.9	4,181.0	-532.4	4,214.8	352.74	1.10	524,455.69	748,435.68
16,241.0	90.80	0.80	11,960.4	4,276.0	-532.8	4,309.0	352.90	2.17	524,550.68	748,435.51
16,336.0	92.80	4.80	11,957.4	4,370.8	-528.1	4,402.6	353.11	4.52	524,645.51	748,439.98
16,430.0	89.50	4.10	11,955.5	4,464.5	-521.0	4,494.8	353.34	3.55	524,739.20	748,447.11
16,525.0	89.90	2.80	11,956.0	4,559.3	-515.3	4,588.4	353.55	1.43	524,834.03	748,452.83
16,619.0	88.00	0.90	11,957.7	4,653.3	-512.2	4,681.4	353.72	2.88	524,927.95	748,455.88
16,714.0	91.10	359.80	11,958.5	4,748.2	-511.7	4,775.7	353.85	3.48	525,022.94	748,458.44
16,809.0	92.50	359.00	11,955.5	4,843.2	-512.7	4,870.2	353.98	1.70	525,117.88	748,455.45
16,904.0	92.50	359.60	11,951.3	4,938.1	-513.8	4,964.7	354.08	0.63	525,212.78	748,454.29
16,998.0	89.40	358.10	11,949.8	5,032.0	-515.7	5,058.4	354.15	3.68	525,308.74	748,452.40
17,093.0	89.30	359.00	11,950.8	5,127.0	-518.1	5,153.1	354.23	0.95	525,401.70	748,450.00
17,188.0	88.60	358.30	11,952.6	5,222.0	-520.3	5,247.8	354.31	1.04	525,496.66	748,447.76
17,282.0	92.60	358.40	11,951.6	5,315.9	-523.0	5,341.6	354.38	4.28	525,590.59	748,445.05
17,377.0	93.50	358.10	11,946.5	5,410.7	-525.9	5,436.2	354.45	1.00	525,685.41	748,442.16
17,472.0	90.60	358.30	11,943.1	5,505.6	-528.9	5,530.9	354.51	3.08	525,780.29	748,439.18
17,566.0	88.80	358.30	11,943.6	5,599.5	-531.7	5,624.7	354.58	1.91	525,874.25	748,436.39
17,661.0	90.40	357.80	11,944.3	5,694.5	-534.9	5,719.6	354.63	1.76	525,969.19	748,433.15
17,756.0	92.00	359.60	11,942.3	5,789.4	-537.1	5,814.3	354.70	2.53	526,064.14	748,431.00
17,851.0	93.10	1.30	11,938.1	5,884.3	-538.4	5,908.7	354.79	2.13	526,159.03	748,431.74
17,946.0	89.70	1.30	11,935.8	5,979.3	-534.2	6,003.1	354.89	3.58	526,253.97	748,433.90
18,041.0	89.80	1.20	11,936.2	6,074.2	-532.1	6,097.5	354.89	0.15	526,348.94	748,435.97
18,135.0	92.90	5.10	11,934.0	6,168.0	-527.0	6,190.5	355.12	5.30	526,442.75	748,441.13
18,230.0	92.10	2.80	11,929.8	6,262.7	-520.4	6,284.3	355.25	2.58	526,537.42	748,447.67
18,325.0	89.70	359.90	11,928.3	6,357.7	-518.2	6,378.8	355.34	3.96	526,632.37	748,449.90
18,416.0	90.90	1.00	11,927.9	6,448.7	-517.5	6,469.4	355.41	1.79	526,723.36	748,450.62
18,511.0	90.80	0.90	11,928.4	6,543.6	-515.9	6,563.9	355.49	0.15	526,818.34	748,452.19





Stryker Energy Directional Services

Survey Report Landscape



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Wellbore: Original Hole
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Local Co-ordinate Reference: Well Bilbrey 34-27 W0MD Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
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Survey Calculation Method: Minimum Curvature
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
18,606.0	89.80	359.40	11,925.9	6,638.6	-515.7	6,658.6	355.56	1.90	526,913.33	746,452.44
18,700.0	90.60	359.00	11,925.6	6,732.6	-517.0	6,762.4	355.61	0.95	527,007.32	746,451.13
18,795.0	91.60	0.00	11,923.8	6,827.6	-517.8	6,847.2	355.66	1.49	527,102.30	746,450.30
18,890.0	92.40	359.30	11,920.5	6,922.5	-518.4	6,941.9	355.72	1.12	527,197.24	746,449.72
18,985.0	92.90	359.10	11,918.1	7,017.4	-519.7	7,036.6	355.76	0.57	527,292.12	746,448.40
19,080.0	93.00	359.20	11,911.2	7,112.3	-521.1	7,131.4	355.81	0.15	527,388.99	746,446.99
19,137.0	94.10	359.00	11,907.7	7,169.2	-522.0	7,188.2	355.84	1.96	527,443.87	746,446.10
19,179.0	92.90	358.00	11,905.1	7,211.1	-523.1	7,230.0	355.85	3.72	527,485.78	746,445.00
19,273.0	87.40	358.00	11,904.9	7,304.9	-528.0	7,324.0	355.87	6.23	527,579.61	746,440.08
19,368.0	88.10	358.30	11,908.6	7,399.6	-534.4	7,418.9	355.87	0.80	527,674.32	746,433.71
19,462.0	87.70	355.90	11,912.0	7,493.3	-540.8	7,512.8	355.87	0.60	527,768.04	746,427.32
19,557.0	86.90	355.00	11,916.5	7,587.9	-548.3	7,607.7	355.87	1.27	527,862.63	746,419.79
19,652.0	87.60	358.30	11,921.1	7,682.6	-553.9	7,702.6	355.88	3.55	527,957.35	746,414.25
19,747.0	90.20	358.70	11,922.9	7,777.6	-556.3	7,797.5	355.91	2.77	528,052.29	746,411.76
19,841.0	92.20	358.50	11,920.9	7,871.5	-558.6	7,891.3	355.94	2.14	528,146.23	746,409.46
19,936.0	92.10	358.70	11,917.4	7,966.4	-561.0	7,986.2	355.97	0.24	528,241.14	746,407.15
20,031.0	90.50	358.50	11,915.2	8,061.4	-563.3	8,081.0	356.00	1.70	528,336.08	746,404.82
20,126.0	92.00	0.20	11,913.1	8,156.3	-564.4	8,175.8	356.04	2.39	528,431.05	746,403.75
20,221.0	91.10	359.50	11,910.6	8,251.3	-564.6	8,270.6	356.09	1.20	528,526.01	746,403.50
20,316.0	90.60	358.90	11,909.1	8,346.3	-565.9	8,365.5	356.12	0.82	528,620.99	746,402.17
20,411.0	90.30	358.80	11,908.4	8,441.3	-567.8	8,460.3	356.15	0.33	528,715.97	746,400.27
20,506.0	90.10	358.60	11,908.1	8,536.2	-570.0	8,555.3	356.18	0.30	528,810.94	746,398.11
20,601.0	89.80	358.30	11,908.2	8,631.2	-572.6	8,650.2	356.20	0.45	528,905.91	746,395.64
20,696.0	89.00	357.30	11,909.1	8,726.1	-576.2	8,745.1	356.22	1.35	529,000.83	746,391.89
20,791.0	88.90	356.80	11,910.9	8,821.0	-581.1	8,840.1	356.23	0.54	529,095.69	746,387.01
20,886.0	89.40	355.90	11,912.3	8,915.8	-587.1	8,935.1	356.23	1.08	529,190.49	746,380.96
20,981.0	90.40	355.30	11,912.5	9,010.5	-594.4	9,030.1	356.23	1.23	529,285.20	746,373.87



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34 27-21S-32E Bilbrey
Well: Bilbrey 34-27 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 W0MD Fed Com #1H
TVD Reference: 3752+27 @ 3779.0usft (Patterson 217)
MD Reference: 3752+27 @ 3779.0usft (Patterson 217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
21,075.0	93.30	356.80	11,909.4	9,104.2	-601.1	9,124.0	356.22	3.38	529,378.91	748,387.03
21,170.0	89.10	358.10	11,907.4	9,199.1	-605.5	9,219.0	356.23	4.69	529,473.76	748,382.65
21,284.0	87.20	357.80	11,910.5	9,292.9	-609.0	9,312.9	356.25	2.09	529,567.64	748,359.12
21,359.0	89.30	356.80	11,913.4	9,387.8	-613.8	9,407.8	356.28	2.37	529,662.48	748,354.48
21,454.0	90.60	358.80	11,913.5	9,482.7	-617.3	9,502.8	356.28	2.51	529,757.40	748,350.84
21,548.0	92.00	0.30	11,911.3	9,576.7	-618.0	9,596.6	356.31	2.18	529,851.37	748,350.10
21,643.0	92.50	0.50	11,907.6	9,671.6	-617.3	9,691.3	356.35	0.57	529,946.29	748,350.76
21,738.0	92.60	1.20	11,903.4	9,766.5	-615.9	9,785.9	356.39	0.74	530,041.19	748,352.17
21,833.0	91.30	4.30	11,900.1	9,861.3	-611.4	9,880.2	356.45	3.54	530,136.01	748,356.72
21,927.0	89.80	2.40	11,899.2	9,955.1	-605.9	9,973.6	356.52	2.58	530,229.84	748,362.22
22,022.0	89.90	2.70	11,899.5	10,050.0	-601.7	10,068.0	356.57	0.33	530,324.74	748,366.44
22,117.0	90.40	4.10	11,899.2	10,144.9	-598.0	10,162.4	356.64	1.56	530,419.57	748,372.08
22,192.0	90.90	4.10	11,898.4	10,219.7	-590.7	10,236.7	356.69	0.67	530,494.38	748,377.44
22,240.0	90.90	4.10	11,897.6	10,267.5	-587.2	10,264.3	356.73	0.00	530,542.25	748,380.87

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
22,240.0	11,897.6	10,267.5	-587.2	22240.0' Projection to bit

Checked By: _____ Approved By: _____ Date: _____



COMPANY: Mewbourne Oil Company
 WELL: Bilbrey 34-27 W0MD Fed Com #1H
 COUNTY: Lea County N. M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson 217

STRYKER
 DIRECTIONAL
 OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.43°

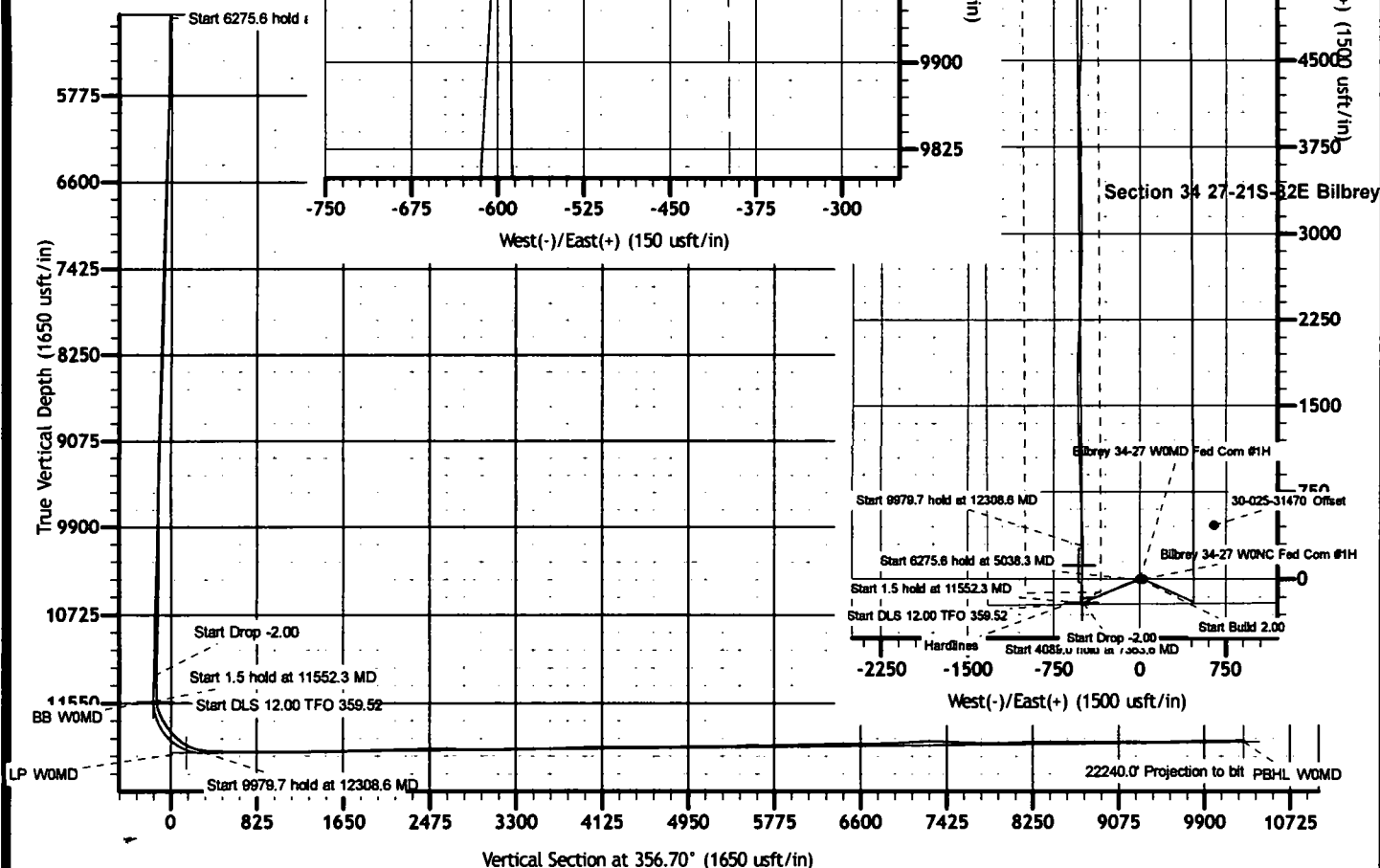
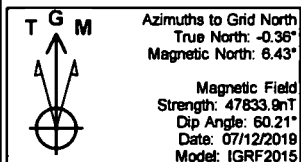
GEODETIC ZONE: New Mexico Eastern Zone
 3752+27 @ 3779.0ust (Patterson 217)
 GROUND ELEVATION: 3752.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	520274.70	746968.10	32° 25' 42.738 N	103° 40' 0.737 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4800.0	0.00	0.00	4800.0	0.0	0.0	0.00	0.00	0.0	
3	5038.3	4.77	248.41	5038.0	-3.6	-9.2	2.00	248.41	-3.1	
4	11313.9	4.77	248.41	11282.0	-185.6	-484.1	0.00	0.00	-186.8	
5	11552.3	0.00	0.00	11530.0	-189.2	-503.3	2.00	180.00	-189.9	BB W0MD
6	11553.8	0.00	0.00	11531.5	-188.2	-503.3	0.00	0.00	-189.9	
7	12308.6	90.57	359.52	12009.0	283.0	-507.4	12.00	359.52	311.7	
8	22288.3	90.57	359.52	11909.0	10261.9	-591.2	0.00	0.00	10278.9	PBHL W0MD

SHL: 205' FSL; 1330' FWL
 Section 34-21S-32E
 PBHL: 100 FNL; 800' FWL
 Section 27-21S-32E



2.

1944-1945

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