



COMPANY: Mewbourne Oil Company
WELL: Bilbrey 34-27 B2OB Fed Com #2H
COUNTY: Lea County N. M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 242

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.53°



OFFICE: 936.582.7296

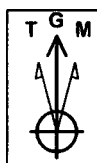
GEODETTIC ZONE: New Mexico Eastern Zone
3717 + 27 @ 3744.0usft (Patterson 242)
GROUND ELEVATION: 3717.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	520300.10	749569.70	32° 25' 42.828 N	103° 39' 30.381 W	

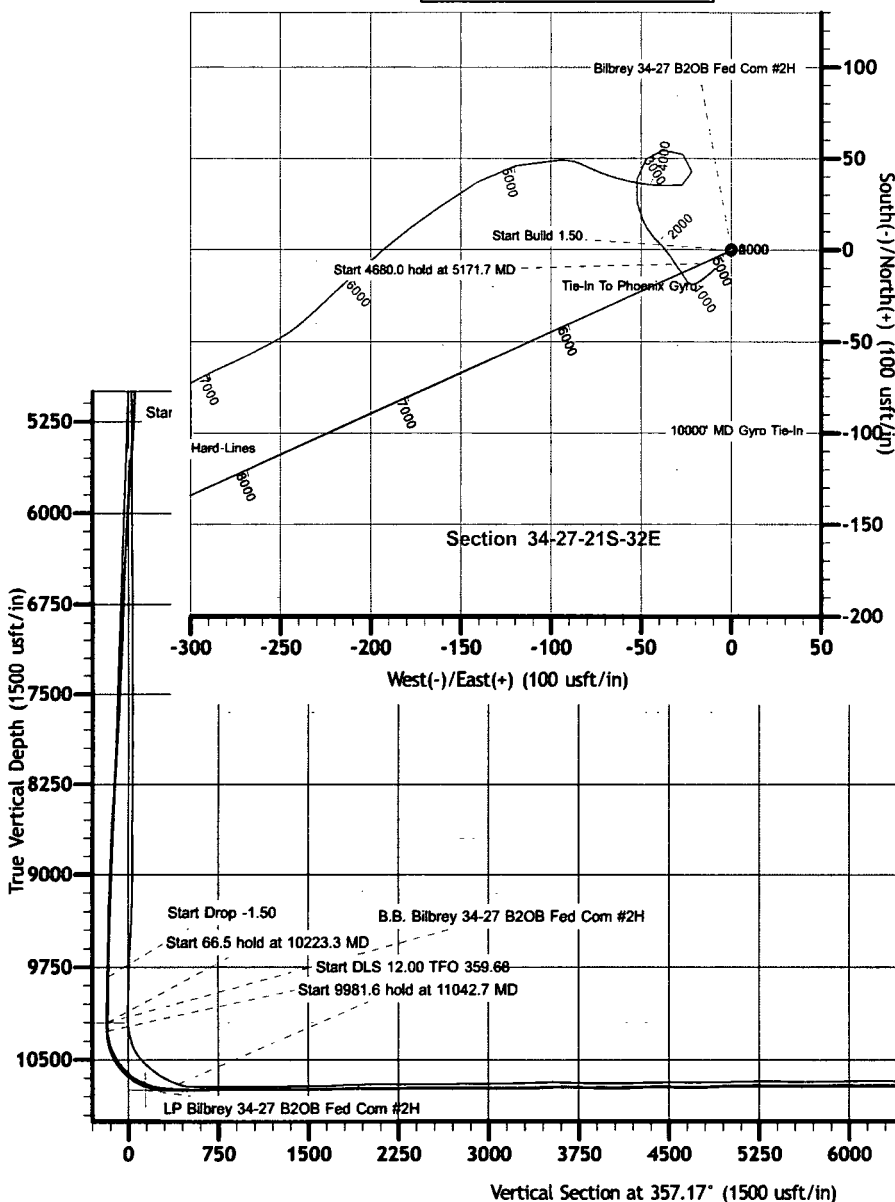
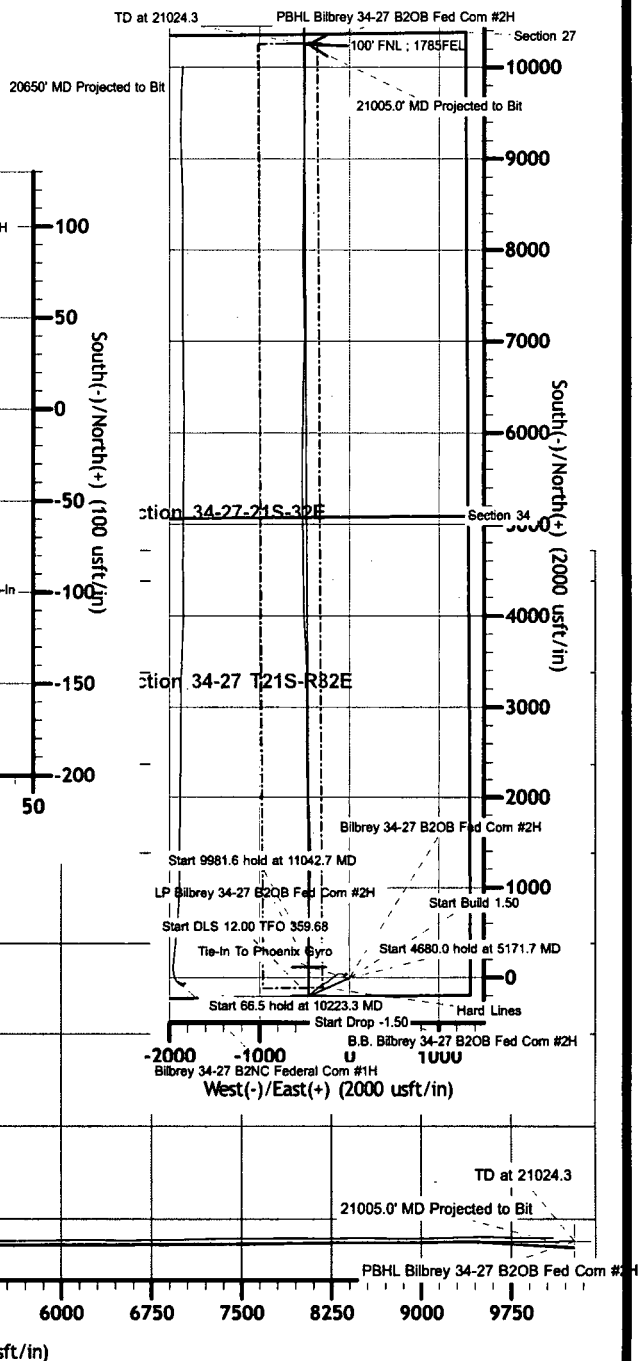
PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	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	5171.7	5.57	245.98	5171.1	-7.4	-16.5	1.50	245.98	-6.5	
4	9851.7	5.57	245.98	9828.9	-192.4	-431.8	0.00	0.00	-170.9	
5	10223.3	0.00	0.00	10200.0	-199.8	-448.3	1.50	180.00	-177.4	B.B. Bilbrey 34-27 B2OB Fed Com #2H
6	10289.8	0.00	0.00	10266.5	-199.8	-448.3	0.00	0.00	-177.4	
7	11042.7	90.34	359.68	10744.0	280.5	-451.0	12.00	359.68	302.5	
8	21024.3	90.34	359.68	10684.0	10261.8	-507.1	0.00	0.00	10274.3	PBHL Bilbrey 34-27 B2OB Fed Com #2H

SHL: 205' FSL; 1351' FEL
Section 34-21S-32E
PBHL: 100' FNL; 1800' FEL
Section 27-21S-32E



Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.53°
Magnetic Field
Strength: 47936.7nT
Dip Angle: 60.22°
Date: 7/17/2018
Model: IGRF2015





HOBBS OCD
FEB 08 2019
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Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2

Bilbrey 34-27 B2OB Fed Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

11 September, 2018



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2				
Site Position:		Northing:	520,300.10 usft	Latitude:	32° 25' 42.828 N
From:	Map	Easting:	749,569.70 usft	Longitude:	103° 39' 30.381 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Bilbrey 34-27 B2OB Fed Com #2H					
Well Position	+N/-S	0.0 usft	Northing:	520,300.10 usft	Latitude:	32° 25' 42.828 N
	+E/-W	0.0 usft	Easting:	749,569.70 usft	Longitude:	103° 39' 30.381 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,717.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/17/2018	6.89	60.22	47,936.70119661

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	234.77

Survey Program	Date 9/11/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
968.0	21,005.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
848.0	3.07	223.33	847.8	-9.9	-9.1	13.1	0.00	0.00	0.00
968.0	4.80	232.10	967.5	-15.3	-15.2	21.3	1.52	1.44	7.31
1,094.0	1.90	263.50	1,093.3	-18.8	-21.5	28.4	2.64	-2.30	24.92
1,221.0	1.80	335.40	1,220.2	-17.2	-24.4	29.9	1.71	-0.08	56.61
1,412.0	1.90	322.00	1,411.1	-12.0	-27.6	29.5	0.23	0.05	-7.02
1,602.0	2.10	325.30	1,601.0	-6.7	-31.5	29.6	0.12	0.11	1.74
1,793.0	2.00	323.80	1,791.9	-1.1	-35.5	29.6	0.06	-0.05	-0.79
1,982.0	2.20	312.70	1,980.8	4.0	-40.1	30.4	0.24	0.11	-5.87
2,170.0	2.70	325.00	2,168.6	10.1	-45.3	31.1	0.38	0.27	6.54
2,359.0	2.80	339.10	2,357.4	18.1	-49.5	30.0	0.36	0.05	7.46

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)
2,546.0	3.10	347.40	2,544.1	27.3	-52.2	26.9	0.28	0.16	4.44
2,735.0	4.20	10.70	2,732.8	39.1	-52.0	20.0	0.97	0.58	12.33
2,923.0	3.30	39.90	2,920.4	50.0	-47.3	9.8	1.11	-0.48	15.53
3,112.0	3.60	83.00	3,109.1	54.9	-37.9	-0.7	1.35	0.16	22.80
3,300.0	3.70	121.10	3,296.7	52.5	-26.9	-8.3	1.27	0.05	20.27
3,489.0	4.00	181.70	3,485.4	42.7	-21.8	-6.8	2.06	0.16	32.06
3,678.0	3.20	266.90	3,674.1	35.8	-27.3	1.6	2.60	-0.42	45.08
3,866.0	2.90	269.30	3,861.8	35.5	-37.3	10.0	0.17	-0.16	1.28
4,055.0	3.30	277.40	4,050.6	36.1	-47.5	17.9	0.31	0.21	4.29
4,242.0	3.10	283.00	4,237.3	38.0	-57.7	25.2	0.20	-0.11	2.99
4,431.0	3.30	287.60	4,426.0	40.8	-67.9	31.9	0.17	0.11	2.43
4,619.0	4.00	294.70	4,613.6	45.1	-79.0	38.5	0.44	0.37	3.78
4,676.0	4.30	296.20	4,670.4	46.9	-82.7	40.5	0.56	0.53	2.63
4,811.0	6.90	271.00	4,804.8	49.3	-95.4	49.5	2.61	1.93	-18.67
5,000.0	7.80	255.60	4,992.3	46.3	-119.2	70.6	1.14	0.48	-8.15
5,189.0	6.80	238.10	5,179.8	37.2	-141.1	93.8	1.28	-0.53	-9.26
5,378.0	7.10	235.20	5,367.4	24.6	-160.2	116.6	0.24	0.16	-1.53
5,568.0	5.50	234.50	5,556.2	12.6	-177.2	137.5	0.84	-0.84	-0.37
5,757.0	5.60	229.10	5,744.3	1.3	-191.6	155.7	0.28	0.05	-2.86
5,946.0	5.50	230.80	5,932.4	-10.4	-205.6	173.9	0.10	-0.05	0.90
6,135.0	6.10	227.00	6,120.5	-23.0	-219.9	192.9	0.38	0.32	-2.01
6,324.0	6.40	228.10	6,308.4	-36.9	-235.1	213.3	0.17	0.16	0.58
6,512.0	5.00	241.40	6,495.4	-47.8	-250.1	231.9	1.02	-0.74	7.07
6,700.0	4.90	243.90	6,682.7	-55.3	-264.5	247.9	0.13	-0.05	1.33
6,889.0	5.10	245.50	6,871.0	-62.3	-279.4	264.2	0.13	0.11	0.85
7,077.0	5.50	243.00	7,058.2	-69.9	-295.0	281.3	0.25	0.21	-1.33
7,266.0	4.80	238.60	7,246.4	-78.1	-309.8	298.1	0.42	-0.37	-2.33
7,453.0	5.00	235.60	7,432.8	-86.8	-323.3	314.1	0.17	0.11	-1.60
7,641.0	4.80	229.60	7,620.1	-96.5	-336.0	330.1	0.29	-0.11	-3.19
7,829.0	5.10	228.90	7,807.4	-107.1	-348.3	346.3	0.16	0.16	-0.37
8,018.0	5.30	222.80	7,995.6	-119.0	-360.5	363.2	0.31	0.11	-3.23
8,206.0	4.70	235.70	8,182.9	-129.7	-372.8	379.4	0.68	-0.32	6.86
8,393.0	4.60	229.20	8,369.3	-138.9	-384.8	394.5	0.29	-0.05	-3.48
8,581.0	4.70	231.70	8,556.6	-148.6	-396.6	409.7	0.12	0.05	1.33
8,769.0	4.40	229.70	8,744.1	-158.1	-408.1	424.6	0.18	-0.16	-1.06
8,957.0	4.30	232.10	8,931.5	-167.1	-419.2	438.8	0.11	-0.05	1.28
9,144.0	3.20	219.00	9,118.1	-175.4	-428.0	450.8	0.74	-0.59	-7.01
9,330.0	1.70	192.10	9,303.9	-182.2	-431.8	457.8	1.00	-0.81	-14.46
9,517.0	1.10	220.10	9,490.9	-186.3	-433.6	461.6	0.48	-0.32	14.97
9,704.0	1.60	261.40	9,677.8	-188.0	-437.3	465.7	0.57	0.27	22.09
9,892.0	2.30	239.90	9,865.7	-190.3	-443.2	471.8	0.53	0.37	-11.44
10,080.0	2.00	241.20	10,053.6	-193.8	-449.3	478.8	0.16	-0.16	0.69

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Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)
10,226.4	1.72	246.87	10,199.9	-195.9	-453.6	483.5	0.23	-0.19	3.87
B.B. Bilbrey 34-27 B2OB Fed Com #2H									
10,238.0	1.70	247.40	10,211.5	-196.0	-453.9	483.8	0.23	-0.18	4.55
10,287.0	1.50	299.70	10,260.5	-196.0	-455.1	484.8	2.90	-0.41	106.73
10,318.0	5.00	346.50	10,291.5	-194.5	-455.8	484.5	13.29	11.29	150.97
10,350.0	9.50	352.50	10,323.2	-190.5	-456.5	482.7	14.24	14.06	18.75
10,381.0	14.20	353.70	10,353.5	-184.2	-457.2	479.7	15.18	15.16	3.87
10,413.0	18.40	355.80	10,384.2	-175.2	-458.0	475.2	13.25	13.13	6.56
10,444.0	22.30	358.00	10,413.3	-164.5	-458.6	469.4	12.82	12.58	7.10
10,475.0	25.60	359.40	10,441.6	-151.9	-458.8	462.4	10.80	10.65	4.52
10,507.0	28.50	0.80	10,470.1	-137.3	-458.8	454.0	9.28	9.06	4.38
10,538.0	31.50	2.00	10,497.0	-121.8	-458.4	444.7	9.87	9.68	3.87
10,570.0	35.50	1.70	10,523.6	-104.2	-457.9	434.1	12.51	12.50	-0.94
10,602.0	39.20	0.90	10,549.1	-84.8	-457.4	422.5	11.66	11.56	-2.50
10,633.0	41.90	1.00	10,572.6	-64.6	-457.1	410.7	8.71	8.71	0.32
10,664.0	45.30	0.60	10,595.1	-43.3	-456.8	398.1	11.00	10.97	-1.29
10,696.0	49.50	0.20	10,616.7	-19.7	-456.6	384.4	13.16	13.13	-1.25
10,727.0	54.20	359.90	10,635.9	4.7	-456.6	370.3	15.18	15.16	-0.97
10,759.0	57.60	0.20	10,653.8	31.2	-456.6	355.0	10.65	10.63	0.94
10,791.0	60.80	0.70	10,670.2	58.6	-456.4	339.0	10.09	10.00	1.56
10,822.0	64.40	1.10	10,684.4	86.2	-455.9	322.7	11.67	11.61	1.29
10,853.0	68.90	1.10	10,696.7	114.6	-455.4	305.9	14.52	14.52	0.00
10,873.8	71.30	0.97	10,703.8	134.1	-455.0	294.3	11.58	11.56	-0.63
LP Bilbrey 34-27 B2OB Fed Com #2H									
10,885.0	72.60	0.90	10,707.3	144.8	-454.9	288.0	11.58	11.56	-0.62
10,916.0	75.30	0.70	10,715.9	174.6	-454.5	270.5	8.73	8.71	-0.65
10,948.0	78.70	0.00	10,723.0	205.8	-454.3	252.4	10.84	10.63	-2.19
10,967.0	81.00	359.80	10,726.4	224.5	-454.3	241.6	12.15	12.11	-1.05
11,016.0	84.40	0.60	10,732.6	273.1	-454.1	213.4	7.13	6.94	1.63
11,110.0	86.90	359.20	10,739.8	366.8	-454.3	159.5	3.05	2.66	-1.49
11,205.0	90.20	359.60	10,742.2	461.7	-455.3	105.5	3.50	3.47	0.42
11,299.0	89.80	0.10	10,742.2	555.7	-455.5	51.5	0.68	-0.43	0.53
11,393.0	91.50	2.10	10,741.1	649.7	-453.7	-4.2	2.79	1.81	2.13
11,487.0	92.00	2.80	10,738.2	743.6	-449.7	-61.6	0.91	0.53	0.74
11,581.0	91.80	2.50	10,735.1	837.4	-445.4	-119.3	0.38	-0.21	-0.32
11,677.0	88.40	0.70	10,734.9	933.4	-442.7	-176.8	4.01	-3.54	-1.88
11,771.0	90.50	2.30	10,735.8	1,027.3	-440.2	-233.0	2.81	2.23	1.70
11,865.0	89.30	0.70	10,736.0	1,121.3	-437.8	-289.2	2.13	-1.28	-1.70
11,960.0	88.90	1.30	10,737.5	1,216.3	-436.1	-345.4	0.76	-0.42	0.63
12,054.0	89.70	359.50	10,738.6	1,310.2	-435.4	-400.1	2.10	0.85	-1.91
12,149.0	91.30	0.10	10,737.8	1,405.2	-435.8	-454.7	1.80	1.68	0.63
12,244.0	89.90	358.50	10,736.8	1,500.2	-436.9	-508.5	2.24	-1.47	-1.68
12,338.0	91.50	359.70	10,735.7	1,594.2	-438.4	-561.5	2.13	1.70	1.28

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Well:	Bilbrey 34-27 B2OB 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)
12,433.0	91.30	357.80	10,733.3	1,689.1	-440.5	-614.6	2.01	-0.21	-2.00
12,526.0	92.50	358.50	10,730.3	1,782.0	-443.5	-665.7	1.49	1.29	0.75
12,621.0	90.00	356.60	10,728.2	1,876.9	-447.6	-717.2	3.30	-2.63	-2.00
12,715.0	88.00	356.00	10,729.8	1,970.7	-453.6	-766.3	2.22	-2.13	-0.64
12,809.0	89.30	356.10	10,732.0	2,064.4	-460.1	-815.1	1.39	1.38	0.11
12,904.0	90.40	356.60	10,732.3	2,159.3	-466.1	-864.8	1.27	1.16	0.53
12,998.0	91.40	357.70	10,730.8	2,253.1	-470.8	-915.2	1.58	1.06	1.17
13,093.0	92.00	358.60	10,728.0	2,348.0	-473.9	-967.4	1.14	0.63	0.95
13,187.0	89.10	359.50	10,727.1	2,442.0	-475.4	-1,020.4	3.23	-3.09	0.96
13,282.0	90.20	359.50	10,727.7	2,537.0	-476.3	-1,074.5	1.16	1.16	0.00
13,376.0	89.10	0.60	10,728.3	2,631.0	-476.2	-1,128.8	1.65	-1.17	1.17
13,470.0	89.80	1.00	10,729.2	2,725.0	-474.9	-1,184.1	0.86	0.74	0.43
13,565.0	90.00	2.10	10,729.3	2,819.9	-472.3	-1,240.9	1.18	0.21	1.16
13,659.0	89.90	358.70	10,729.4	2,913.9	-471.6	-1,295.7	3.62	-0.11	-3.62
13,753.0	89.60	359.20	10,729.8	3,007.9	-473.4	-1,348.5	0.62	-0.32	0.53
13,848.0	89.90	359.90	10,730.2	3,102.9	-474.1	-1,402.7	0.80	0.32	0.74
13,942.0	89.80	0.40	10,730.5	3,196.9	-473.9	-1,457.1	0.54	-0.11	0.53
14,037.0	92.60	358.60	10,728.5	3,291.9	-474.7	-1,511.2	3.50	2.95	-1.89
14,131.0	92.80	359.20	10,724.1	3,385.7	-476.5	-1,563.9	0.67	0.21	0.64
14,225.0	91.80	358.30	10,720.3	3,479.6	-478.5	-1,616.4	1.43	-1.06	-0.96
14,320.0	90.40	357.10	10,718.5	3,574.5	-482.4	-1,668.0	1.94	-1.47	-1.26
14,414.0	88.00	357.10	10,719.8	3,668.4	-487.1	-1,718.3	2.55	-2.55	0.00
14,508.0	87.60	357.20	10,723.4	3,762.2	-491.8	-1,768.6	0.44	-0.43	0.11
14,603.0	90.40	356.70	10,725.0	3,857.1	-496.8	-1,819.2	2.99	2.95	-0.53
14,697.0	88.80	356.90	10,725.7	3,950.9	-502.1	-1,869.0	1.72	-1.70	0.21
14,792.0	89.60	357.70	10,727.0	4,045.8	-506.6	-1,920.1	1.19	0.84	0.84
14,886.0	92.20	358.80	10,725.5	4,139.7	-509.4	-1,972.0	3.00	2.77	1.17
14,980.0	93.00	359.30	10,721.3	4,233.6	-511.0	-2,024.8	1.00	0.85	0.53
15,074.0	91.10	359.40	10,717.9	4,327.5	-512.1	-2,078.2	2.02	-2.02	0.11
15,169.0	88.40	359.00	10,718.3	4,422.5	-513.4	-2,131.9	2.87	-2.84	-0.42
15,264.0	89.00	359.10	10,720.5	4,517.5	-515.0	-2,185.4	0.64	0.63	0.11
15,358.0	88.60	359.80	10,722.5	4,611.5	-515.9	-2,238.8	0.86	-0.43	0.74
15,453.0	91.30	359.10	10,722.5	4,706.4	-516.8	-2,292.9	2.94	2.84	-0.74
15,547.0	91.90	359.90	10,719.9	4,800.4	-517.6	-2,346.4	1.06	0.64	0.85
15,641.0	93.90	359.80	10,715.2	4,894.3	-517.8	-2,400.4	2.13	2.13	-0.11
15,736.0	91.20	359.60	10,710.9	4,989.2	-518.3	-2,454.7	2.85	-2.84	-0.21
15,829.0	90.30	358.80	10,709.7	5,082.2	-519.6	-2,507.3	1.29	-0.97	-0.86
15,924.0	90.90	359.30	10,708.7	5,177.1	-521.2	-2,560.8	0.82	0.63	0.53
16,019.0	89.00	359.10	10,708.8	5,272.1	-522.5	-2,614.5	2.01	-2.00	-0.21
16,113.0	88.40	359.10	10,710.9	5,366.1	-524.0	-2,667.5	0.64	-0.64	0.00
16,208.0	90.30	359.20	10,712.0	5,461.1	-525.4	-2,721.1	2.00	2.00	0.11
16,302.0	89.90	359.90	10,711.9	5,555.1	-526.2	-2,774.8	0.86	-0.43	0.74

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)
16,396.0	89.70	0.30	10,712.2	5,649.1	-526.0	-2,829.1	0.48	-0.21	0.43
16,492.0	91.60	1.30	10,711.1	5,745.0	-524.6	-2,885.6	2.24	1.98	1.04
16,586.0	90.10	0.00	10,709.7	5,839.0	-523.6	-2,940.7	2.11	-1.60	-1.38
16,681.0	90.00	0.50	10,709.6	5,934.0	-523.2	-2,995.8	0.54	-0.11	0.53
16,776.0	90.20	0.80	10,709.4	6,029.0	-522.1	-3,051.5	0.38	0.21	0.32
16,870.0	89.70	0.80	10,709.5	6,123.0	-520.8	-3,106.8	0.53	-0.53	0.00
16,965.0	89.80	1.10	10,709.9	6,218.0	-519.2	-3,162.9	0.33	0.11	0.32
17,060.0	89.60	1.40	10,710.4	6,313.0	-517.1	-3,219.3	0.38	-0.21	0.32
17,155.0	90.50	0.40	10,710.4	6,408.0	-515.6	-3,275.4	1.42	0.95	-1.05
17,250.0	90.90	0.60	10,709.2	6,502.9	-514.8	-3,330.8	0.47	0.42	0.21
17,344.0	90.60	1.50	10,708.0	6,596.9	-513.1	-3,386.4	1.01	-0.32	0.96
17,440.0	89.80	2.00	10,707.6	6,692.9	-510.2	-3,444.2	0.98	-0.83	0.52
17,535.0	90.30	1.70	10,707.5	6,787.8	-507.1	-3,501.5	0.61	0.53	-0.32
17,630.0	90.20	2.80	10,707.1	6,882.7	-503.4	-3,559.3	1.16	-0.11	1.16
17,725.0	90.60	1.90	10,706.5	6,977.7	-499.5	-3,617.2	1.04	0.42	-0.95
17,821.0	91.10	0.40	10,705.0	7,073.6	-497.5	-3,674.1	1.65	0.52	-1.56
17,915.0	90.70	358.70	10,703.6	7,167.6	-498.3	-3,727.8	1.86	-0.43	-1.81
18,011.0	88.60	358.40	10,704.2	7,263.6	-500.7	-3,781.1	2.21	-2.19	-0.31
18,105.0	90.90	358.00	10,704.6	7,357.5	-503.7	-3,832.9	2.48	2.45	-0.43
18,200.0	90.40	358.00	10,703.5	7,452.5	-507.0	-3,885.0	0.53	-0.53	0.00
18,295.0	90.20	358.40	10,703.0	7,547.4	-510.0	-3,937.3	0.47	-0.21	0.42
18,391.0	89.80	358.80	10,703.0	7,643.4	-512.3	-3,990.8	0.59	-0.42	0.42
18,486.0	92.00	358.60	10,701.5	7,738.3	-514.5	-4,043.8	2.33	2.32	-0.21
18,581.0	91.80	359.00	10,698.3	7,833.3	-516.4	-4,096.9	0.47	-0.21	0.42
18,676.0	90.70	359.60	10,696.3	7,928.2	-517.6	-4,150.7	1.32	-1.16	0.63
18,770.0	91.10	1.20	10,694.8	8,022.2	-516.9	-4,205.5	1.75	0.43	1.70
18,866.0	90.00	0.40	10,693.9	8,118.2	-515.6	-4,262.0	1.42	-1.15	-0.83
18,961.0	90.20	0.60	10,693.7	8,213.2	-514.8	-4,317.4	0.30	0.21	0.21
19,056.0	90.40	0.70	10,693.2	8,308.2	-513.7	-4,373.1	0.24	0.21	0.11
19,151.0	89.90	1.50	10,693.0	8,403.2	-511.9	-4,429.4	0.99	-0.53	0.84
19,246.0	90.20	359.80	10,692.9	8,498.2	-510.8	-4,485.1	1.82	0.32	-1.79
19,340.0	90.10	0.40	10,692.6	8,592.2	-510.6	-4,539.4	0.65	-0.11	0.64
19,436.0	89.50	0.40	10,693.0	8,688.2	-510.0	-4,595.4	0.63	-0.63	0.00
19,531.0	90.50	2.20	10,693.0	8,783.1	-507.8	-4,651.9	2.17	1.05	1.89
19,625.0	90.70	0.60	10,692.0	8,877.1	-505.5	-4,708.0	1.72	0.21	-1.70
19,720.0	91.00	1.00	10,690.6	8,972.1	-504.2	-4,763.9	0.53	0.32	0.42
19,816.0	91.30	359.90	10,688.7	9,068.0	-503.4	-4,819.8	1.19	0.31	-1.15
19,911.0	91.60	0.80	10,686.2	9,163.0	-502.9	-4,875.1	1.00	0.32	0.95
20,007.0	91.40	1.60	10,683.7	9,259.0	-500.8	-4,932.1	0.86	-0.21	0.83
20,103.0	89.90	2.00	10,682.6	9,354.9	-497.8	-4,989.9	1.62	-1.56	0.42
20,198.0	87.00	359.10	10,685.2	9,449.8	-496.9	-5,045.4	4.32	-3.05	-3.05
20,294.0	86.50	359.40	10,690.7	9,545.7	-498.2	-5,099.7	0.61	-0.52	0.31
20,390.0	86.60	0.60	10,696.4	9,641.5	-498.2	-5,155.0	1.25	0.10	1.25

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
20,484.0	85.80	0.40	10,702.7	9,735.3	-497.4	-5,209.7	0.88	-0.85	-0.21
20,579.0	86.90	359.70	10,708.7	9,830.1	-497.3	-5,264.5	1.37	1.16	-0.74
20,674.0	86.90	0.20	10,713.9	9,925.0	-497.4	-5,319.1	0.53	0.00	0.53
20,768.0	87.00	0.00	10,718.9	10,018.8	-497.2	-5,373.4	0.24	0.11	-0.21
20,863.0	86.80	0.20	10,724.0	10,113.7	-497.0	-5,428.3	0.30	-0.21	0.21
20,951.0	86.80	0.60	10,728.9	10,201.5	-496.4	-5,479.5	0.45	0.00	0.45
21,005.0	86.80	0.60	10,731.9	10,255.5	-495.8	-5,511.0	0.00	0.00	0.00

21005.0' MD Projected to Bit - PBHL Bilbrey 34-27 B2OB Fed Com #2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
21,005.0	10,731.9	10,255.5	-495.8	21005.0' MD Projected to Bit



Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2

Bilbrey 34-27 B2OB Fed Com #2H

Original Hole

Design: Original Hole

Survey Report - Geographic

11 September, 2018



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2			
Site Position:		Northing:	520,300.10 usft	Latitude:	32° 25' 42.828 N
From:	Map	Easting:	749,569.70 usft	Longitude:	103° 39' 30.381 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	Bilbrey 34-27 B2OB Fed Com #2H					
Well Position	+N/-S	0.0 usft	Northing:	520,300.10 usft	Latitude:	32° 25' 42.828 N
	+E/-W	0.0 usft	Easting:	749,569.70 usft	Longitude:	103° 39' 30.381 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,717.0 usft	

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/17/2018	6.89	60.22	47,936.70119661

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	234.77	

Survey Program		Date 9/11/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
968.0	21,005.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
848.0	3.07	223.33	847.8	-9.9	-9.1	520,290.20	749,560.64	32° 25' 42.730 N	103° 39' 30.488 W
968.0	4.80	232.10	967.5	-15.3	-15.2	520,284.78	749,554.47	32° 25' 42.677 N	103° 39' 30.560 W
1,094.0	1.90	263.50	1,093.3	-18.8	-21.5	520,281.30	749,548.23	32° 25' 42.643 N	103° 39' 30.633 W
1,221.0	1.80	335.40	1,220.2	-17.2	-24.4	520,282.88	749,545.31	32° 25' 42.659 N	103° 39' 30.667 W
1,412.0	1.90	322.00	1,411.1	-12.0	-27.6	520,288.10	749,542.11	32° 25' 42.711 N	103° 39' 30.704 W
1,602.0	2.10	325.30	1,601.0	-6.7	-31.5	520,293.45	749,538.19	32° 25' 42.764 N	103° 39' 30.750 W
1,793.0	2.00	323.80	1,791.9	-1.1	-35.5	520,299.01	749,534.23	32° 25' 42.819 N	103° 39' 30.795 W
1,982.0	2.20	312.70	1,980.8	4.0	-40.1	520,304.13	749,529.62	32° 25' 42.870 N	103° 39' 30.849 W
2,170.0	2.70	325.00	2,168.6	10.1	-45.3	520,310.21	749,524.42	32° 25' 42.930 N	103° 39' 30.909 W
2,359.0	2.80	339.10	2,357.4	18.1	-49.5	520,318.17	749,520.22	32° 25' 43.009 N	103° 39' 30.957 W
2,546.0	3.10	347.40	2,544.1	27.3	-52.2	520,327.37	749,517.49	32° 25' 43.101 N	103° 39' 30.989 W

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,735.0	4.20	10.70	2,732.8	39.1	-52.0	520,339.16	749,517.66	32° 25' 43.217 N	103° 39' 30.986 W
2,923.0	3.30	39.90	2,920.4	50.0	-47.3	520,350.08	749,522.41	32° 25' 43.325 N	103° 39' 30.929 W
3,112.0	3.60	83.00	3,109.1	54.9	-37.9	520,354.97	749,531.79	32° 25' 43.373 N	103° 39' 30.820 W
3,300.0	3.70	121.10	3,296.7	52.5	-26.9	520,352.56	749,542.85	32° 25' 43.348 N	103° 39' 30.691 W
3,489.0	4.00	181.70	3,485.4	42.7	-21.8	520,342.82	749,547.87	32° 25' 43.252 N	103° 39' 30.633 W
3,678.0	3.20	266.90	3,674.1	35.8	-27.3	520,335.94	749,542.41	32° 25' 43.184 N	103° 39' 30.697 W
3,866.0	2.90	269.30	3,861.8	35.5	-37.3	520,335.59	749,532.41	32° 25' 43.181 N	103° 39' 30.814 W
4,055.0	3.30	277.40	4,050.6	36.1	-47.5	520,336.24	749,522.24	32° 25' 43.188 N	103° 39' 30.933 W
4,242.0	3.10	283.00	4,237.3	38.0	-57.7	520,338.07	749,511.97	32° 25' 43.207 N	103° 39' 31.052 W
4,431.0	3.30	287.60	4,426.0	40.8	-67.9	520,340.86	749,501.81	32° 25' 43.235 N	103° 39' 31.171 W
4,619.0	4.00	294.70	4,613.6	45.1	-79.0	520,345.24	749,490.69	32° 25' 43.279 N	103° 39' 31.300 W
4,676.0	4.30	296.20	4,670.4	46.9	-82.7	520,347.01	749,486.97	32° 25' 43.297 N	103° 39' 31.343 W
4,811.0	6.90	271.00	4,804.8	49.3	-95.4	520,349.39	749,474.32	32° 25' 43.321 N	103° 39' 31.491 W
5,000.0	7.80	255.60	4,992.3	46.3	-119.2	520,346.40	749,450.54	32° 25' 43.293 N	103° 39' 31.768 W
5,189.0	6.80	238.10	5,179.8	37.2	-141.1	520,337.29	749,428.62	32° 25' 43.204 N	103° 39' 32.025 W
5,378.0	7.10	235.20	5,367.4	24.6	-160.2	520,324.71	749,408.53	32° 25' 43.081 N	103° 39' 32.248 W
5,568.0	5.50	234.50	5,556.2	12.6	-177.2	520,312.73	749,392.47	32° 25' 42.964 N	103° 39' 32.448 W
5,757.0	5.60	229.10	5,744.3	1.3	-191.6	520,301.43	749,378.13	32° 25' 42.853 N	103° 39' 32.616 W
5,946.0	5.50	230.80	5,932.4	-10.4	-205.6	520,289.67	749,364.14	32° 25' 42.737 N	103° 39' 32.781 W
6,135.0	6.10	227.00	6,120.5	-23.0	-219.9	520,277.09	749,349.77	32° 25' 42.614 N	103° 39' 32.949 W
6,324.0	6.40	228.10	6,308.4	-36.9	-235.1	520,263.21	749,334.59	32° 25' 42.477 N	103° 39' 33.127 W
6,512.0	5.00	241.40	6,495.4	-47.8	-250.1	520,252.29	749,319.60	32° 25' 42.370 N	103° 39' 33.303 W
6,700.0	4.90	243.90	6,682.7	-55.3	-264.5	520,244.83	749,305.19	32° 25' 42.297 N	103° 39' 33.472 W
6,889.0	5.10	245.50	6,871.0	-62.3	-279.4	520,237.80	749,290.30	32° 25' 42.229 N	103° 39' 33.646 W
7,077.0	5.50	243.00	7,058.2	-69.9	-295.0	520,230.24	749,274.67	32° 25' 42.155 N	103° 39' 33.829 W
7,266.0	4.80	238.60	7,246.4	-78.1	-309.8	520,222.01	749,259.85	32° 25' 42.074 N	103° 39' 34.002 W
7,453.0	5.00	235.60	7,432.8	-86.8	-323.3	520,213.33	749,246.45	32° 25' 41.989 N	103° 39' 34.159 W
7,641.0	4.80	229.60	7,620.1	-96.5	-336.0	520,203.61	749,233.70	32° 25' 41.894 N	103° 39' 34.309 W
7,829.0	5.10	228.90	7,807.4	-107.1	-348.3	520,193.01	749,221.41	32° 25' 41.790 N	103° 39' 34.453 W
8,018.0	5.30	222.80	7,995.6	-119.0	-360.5	520,181.09	749,209.15	32° 25' 41.672 N	103° 39' 34.597 W
8,206.0	4.70	235.70	8,182.9	-129.7	-372.8	520,170.38	749,196.88	32° 25' 41.567 N	103° 39' 34.741 W
8,393.0	4.60	229.20	8,369.3	-138.9	-384.8	520,161.16	749,184.88	32° 25' 41.477 N	103° 39' 34.881 W
8,581.0	4.70	231.70	8,556.6	-148.6	-396.6	520,151.46	749,173.13	32° 25' 41.382 N	103° 39' 35.019 W
8,769.0	4.40	229.70	8,744.1	-158.1	-408.1	520,142.02	749,161.58	32° 25' 41.289 N	103° 39' 35.155 W
8,957.0	4.30	232.10	8,931.5	-167.1	-419.2	520,133.03	749,150.52	32° 25' 41.201 N	103° 39' 35.284 W
9,144.0	3.20	219.00	9,118.1	-175.4	-428.0	520,124.66	749,141.70	32° 25' 41.118 N	103° 39' 35.388 W
9,330.0	1.70	192.10	9,303.9	-182.2	-431.8	520,117.93	749,137.86	32° 25' 41.052 N	103° 39' 35.433 W
9,517.0	1.10	220.10	9,490.9	-186.3	-433.6	520,113.85	749,136.12	32° 25' 41.012 N	103° 39' 35.454 W
9,704.0	1.60	261.40	9,677.8	-188.0	-437.3	520,112.08	749,132.38	32° 25' 40.994 N	103° 39' 35.497 W
9,892.0	2.30	239.90	9,865.7	-190.3	-443.2	520,109.80	749,126.52	32° 25' 40.972 N	103° 39' 35.566 W
10,080.0	2.00	241.20	10,053.6	-193.8	-449.3	520,106.33	749,120.39	32° 25' 40.938 N	103° 39' 35.638 W
10,226.4	1.72	246.87	10,199.9	-195.9	-453.6	520,104.23	749,116.13	32° 25' 40.918 N	103° 39' 35.688 W
B.B. Bilbrey 34-27 B2OB Fed Com #2H									
10,238.0	1.70	247.40	10,211.5	-196.0	-453.9	520,104.10	749,115.81	32° 25' 40.916 N	103° 39' 35.691 W
10,287.0	1.50	299.70	10,260.5	-196.0	-455.1	520,104.13	749,114.58	32° 25' 40.917 N	103° 39' 35.706 W
10,318.0	5.00	346.50	10,291.5	-194.5	-455.8	520,105.65	749,113.91	32° 25' 40.932 N	103° 39' 35.713 W
10,350.0	9.50	352.50	10,323.2	-190.5	-456.5	520,109.63	749,113.24	32° 25' 40.971 N	103° 39' 35.721 W
10,381.0	14.20	353.70	10,353.5	-184.2	-457.2	520,115.95	749,112.49	32° 25' 41.034 N	103° 39' 35.729 W
10,413.0	18.40	355.80	10,384.2	-175.2	-458.0	520,124.89	749,111.69	32° 25' 41.122 N	103° 39' 35.738 W
10,444.0	22.30	358.00	10,413.3	-164.5	-458.6	520,135.65	749,111.12	32° 25' 41.229 N	103° 39' 35.744 W
10,475.0	25.60	359.40	10,441.6	-151.9	-458.8	520,148.23	749,110.85	32° 25' 41.353 N	103° 39' 35.746 W
10,507.0	28.50	0.80	10,470.1	-137.3	-458.8	520,162.78	749,110.88	32° 25' 41.497 N	103° 39' 35.745 W
10,538.0	31.50	2.00	10,497.0	-121.8	-458.4	520,178.27	749,111.27	32° 25' 41.651 N	103° 39' 35.739 W
10,570.0	35.50	1.70	10,523.6	-104.2	-457.9	520,195.92	749,111.84	32° 25' 41.825 N	103° 39' 35.731 W

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,602.0	39.20	0.90	10,549.1	-84.8	-457.4	520,215.33	749,112.27	32° 25' 42.017 N	103° 39' 35.725 W
10,633.0	41.90	1.00	10,572.6	-64.6	-457.1	520,235.47	749,112.61	32° 25' 42.217 N	103° 39' 35.719 W
10,664.0	45.30	0.60	10,595.1	-43.3	-456.8	520,256.85	749,112.90	32° 25' 42.428 N	103° 39' 35.714 W
10,696.0	49.50	0.20	10,616.7	-19.7	-456.6	520,280.40	749,113.06	32° 25' 42.661 N	103° 39' 35.711 W
10,727.0	54.20	359.90	10,635.9	4.7	-456.6	520,304.77	749,113.08	32° 25' 42.902 N	103° 39' 35.709 W
10,759.0	57.60	0.20	10,653.8	31.2	-456.6	520,331.26	749,113.11	32° 25' 43.164 N	103° 39' 35.706 W
10,791.0	60.80	0.70	10,670.2	58.6	-456.4	520,358.74	749,113.32	32° 25' 43.436 N	103° 39' 35.702 W
10,822.0	64.40	1.10	10,684.4	86.2	-455.9	520,386.26	749,113.76	32° 25' 43.709 N	103° 39' 35.695 W
10,853.0	68.90	1.10	10,696.7	114.6	-455.4	520,414.71	749,114.30	32° 25' 43.990 N	103° 39' 35.686 W
10,873.8	71.30	0.97	10,703.8	134.1	-455.0	520,434.23	749,114.66	32° 25' 44.183 N	103° 39' 35.681 W
LP Bilbrey 34-27 B2OB Fed Com #2H									
10,885.0	72.60	0.90	10,707.3	144.8	-454.9	520,444.91	749,114.83	32° 25' 44.289 N	103° 39' 35.678 W
10,916.0	75.30	0.70	10,715.9	174.6	-454.5	520,474.69	749,115.25	32° 25' 44.584 N	103° 39' 35.671 W
10,948.0	78.70	0.00	10,723.0	205.8	-454.3	520,505.87	749,115.44	32° 25' 44.892 N	103° 39' 35.666 W
10,967.0	81.00	359.80	10,726.4	224.5	-454.3	520,524.57	749,115.40	32° 25' 45.077 N	103° 39' 35.665 W
11,016.0	84.40	0.60	10,732.6	273.1	-454.1	520,573.16	749,115.57	32° 25' 45.558 N	103° 39' 35.660 W
11,110.0	86.90	359.20	10,739.8	366.8	-454.3	520,666.88	749,115.41	32° 25' 46.485 N	103° 39' 35.655 W
11,205.0	90.20	359.60	10,742.2	461.7	-455.3	520,761.83	749,114.41	32° 25' 47.425 N	103° 39' 35.659 W
11,299.0	89.80	0.10	10,742.2	555.7	-455.5	520,855.83	749,114.17	32° 25' 48.355 N	103° 39' 35.655 W
11,393.0	91.50	2.10	10,741.1	649.7	-453.7	520,949.80	749,115.97	32° 25' 49.285 N	103° 39' 35.627 W
11,487.0	92.00	2.80	10,738.2	743.6	-449.7	521,043.67	749,119.99	32° 25' 50.213 N	103° 39' 35.574 W
11,581.0	91.80	2.50	10,735.1	837.4	-445.4	521,137.52	749,124.33	32° 25' 51.142 N	103° 39' 35.516 W
11,677.0	88.40	0.70	10,734.9	933.4	-442.7	521,233.46	749,127.01	32° 25' 52.091 N	103° 39' 35.478 W
11,771.0	90.50	2.30	10,735.8	1,027.3	-440.2	521,327.42	749,129.47	32° 25' 53.020 N	103° 39' 35.442 W
11,865.0	89.30	0.70	10,736.0	1,121.3	-437.8	521,421.38	749,131.93	32° 25' 53.950 N	103° 39' 35.406 W
11,960.0	88.90	1.30	10,737.5	1,216.3	-436.1	521,516.35	749,133.59	32° 25' 54.890 N	103° 39' 35.380 W
12,054.0	89.70	359.50	10,738.6	1,310.2	-435.4	521,610.34	749,134.25	32° 25' 55.820 N	103° 39' 35.366 W
12,149.0	91.30	0.10	10,737.8	1,405.2	-435.8	521,705.33	749,133.92	32° 25' 56.760 N	103° 39' 35.362 W
12,244.0	89.90	358.50	10,736.8	1,500.2	-436.9	521,800.32	749,132.75	32° 25' 57.700 N	103° 39' 35.369 W
12,338.0	91.50	359.70	10,735.7	1,594.2	-438.4	521,894.29	749,131.28	32° 25' 58.630 N	103° 39' 35.379 W
12,433.0	91.30	357.80	10,733.3	1,689.1	-440.5	521,989.24	749,129.21	32° 25' 59.569 N	103° 39' 35.397 W
12,526.0	92.50	358.50	10,730.3	1,782.0	-443.5	522,082.13	749,126.21	32° 26' 0.489 N	103° 39' 35.425 W
12,621.0	90.00	356.60	10,728.2	1,876.9	-447.6	522,177.01	749,122.15	32° 26' 1.428 N	103° 39' 35.465 W
12,715.0	88.00	356.00	10,729.8	1,970.7	-453.6	522,270.80	749,116.08	32° 26' 2.356 N	103° 39' 35.529 W
12,809.0	89.30	356.10	10,732.0	2,064.4	-460.1	522,364.55	749,109.61	32° 26' 3.284 N	103° 39' 35.598 W
12,904.0	90.40	356.60	10,732.3	2,159.3	-466.1	522,459.35	749,103.56	32° 26' 4.223 N	103° 39' 35.661 W
12,998.0	91.40	357.70	10,730.8	2,253.1	-470.8	522,553.22	749,098.89	32° 26' 5.152 N	103° 39' 35.709 W
13,093.0	92.00	358.60	10,728.0	2,348.0	-473.9	522,648.13	749,095.82	32° 26' 6.091 N	103° 39' 35.738 W
13,187.0	89.10	359.50	10,727.1	2,442.0	-475.4	522,742.10	749,094.26	32° 26' 7.021 N	103° 39' 35.749 W
13,282.0	90.20	359.50	10,727.7	2,537.0	-476.3	522,837.09	749,093.43	32° 26' 7.961 N	103° 39' 35.752 W
13,376.0	89.10	0.60	10,728.3	2,631.0	-476.2	522,931.09	749,093.52	32° 26' 8.891 N	103° 39' 35.744 W
13,470.0	89.80	1.00	10,729.2	2,725.0	-474.9	523,025.07	749,094.83	32° 26' 9.821 N	103° 39' 35.721 W
13,565.0	90.00	2.10	10,729.3	2,819.9	-472.3	523,120.04	749,097.40	32° 26' 10.760 N	103° 39' 35.684 W
13,659.0	89.90	358.70	10,729.4	2,913.9	-471.6	523,214.02	749,098.05	32° 26' 11.690 N	103° 39' 35.670 W
13,753.0	89.60	359.20	10,729.8	3,007.9	-473.4	523,308.01	749,096.33	32° 26' 12.620 N	103° 39' 35.683 W
13,848.0	89.90	359.90	10,730.2	3,102.9	-474.1	523,403.00	749,095.59	32° 26' 13.561 N	103° 39' 35.685 W
13,942.0	89.80	0.40	10,730.5	3,196.9	-473.9	523,497.00	749,095.83	32° 26' 14.491 N	103° 39' 35.675 W
14,037.0	92.60	358.60	10,728.5	3,291.9	-474.7	523,591.96	749,095.00	32° 26' 15.430 N	103° 39' 35.678 W
14,131.0	92.80	359.20	10,724.1	3,385.7	-476.5	523,685.84	749,093.20	32° 26' 16.359 N	103° 39' 35.692 W
14,225.0	91.80	358.30	10,720.3	3,479.6	-478.5	523,779.74	749,091.15	32° 26' 17.289 N	103° 39' 35.709 W
14,320.0	90.40	357.10	10,718.5	3,574.5	-482.4	523,874.64	749,087.34	32° 26' 18.228 N	103° 39' 35.746 W
14,414.0	88.00	357.10	10,719.8	3,668.4	-487.1	523,968.50	749,082.58	32° 26' 19.157 N	103° 39' 35.795 W
14,508.0	87.60	357.20	10,723.4	3,762.2	-491.8	524,062.32	749,077.91	32° 26' 20.086 N	103° 39' 35.842 W
14,603.0	90.40	356.70	10,725.0	3,857.1	-496.8	524,157.16	749,072.86	32° 26' 21.024 N	103° 39' 35.894 W

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,697.0	88.80	356.90	10,725.7	3,950.9	-502.1	524,251.01	749,067.61	32° 26' 21.953 N	103° 39' 35.949 W
14,792.0	89.60	357.70	10,727.0	4,045.8	-506.6	524,345.89	749,063.14	32° 26' 22.892 N	103° 39' 35.994 W
14,886.0	92.20	358.80	10,725.5	4,139.7	-509.4	524,439.83	749,060.27	32° 26' 23.822 N	103° 39' 36.021 W
14,980.0	93.00	359.30	10,721.3	4,233.6	-511.0	524,533.72	749,058.71	32° 26' 24.751 N	103° 39' 36.032 W
15,074.0	91.10	359.40	10,717.9	4,327.5	-512.1	524,627.65	749,057.65	32° 26' 25.681 N	103° 39' 36.037 W
15,169.0	88.40	359.00	10,718.3	4,422.5	-513.4	524,722.63	749,056.32	32° 26' 26.621 N	103° 39' 36.046 W
15,264.0	89.00	359.10	10,720.5	4,517.5	-515.0	524,817.59	749,054.75	32° 26' 27.560 N	103° 39' 36.057 W
15,358.0	88.60	359.80	10,722.5	4,611.5	-515.9	524,911.56	749,053.84	32° 26' 28.490 N	103° 39' 36.061 W
15,453.0	91.30	359.10	10,722.5	4,706.4	-516.8	525,006.55	749,052.93	32° 26' 29.430 N	103° 39' 36.065 W
15,547.0	91.90	359.90	10,719.9	4,800.4	-517.6	525,100.51	749,052.11	32° 26' 30.360 N	103° 39' 36.067 W
15,641.0	93.90	359.80	10,715.2	4,894.3	-517.8	525,194.38	749,051.87	32° 26' 31.289 N	103° 39' 36.063 W
15,736.0	91.20	359.60	10,710.9	4,989.2	-518.3	525,289.28	749,051.37	32° 26' 32.228 N	103° 39' 36.062 W
15,829.0	90.30	358.80	10,709.7	5,082.2	-519.6	525,382.26	749,050.07	32° 26' 33.148 N	103° 39' 36.070 W
15,924.0	90.90	359.30	10,708.7	5,177.1	-521.2	525,477.24	749,048.50	32° 26' 34.088 N	103° 39' 36.082 W
16,019.0	89.00	359.10	10,708.8	5,272.1	-522.5	525,572.23	749,047.17	32° 26' 35.028 N	103° 39' 36.090 W
16,113.0	88.40	359.10	10,710.9	5,366.1	-524.0	525,666.19	749,045.69	32° 26' 35.958 N	103° 39' 36.100 W
16,208.0	90.30	359.20	10,712.0	5,461.1	-525.4	525,761.17	749,044.28	32° 26' 36.898 N	103° 39' 36.110 W
16,302.0	89.90	359.90	10,711.9	5,555.1	-526.2	525,855.17	749,043.55	32° 26' 37.828 N	103° 39' 36.112 W
16,396.0	89.70	0.30	10,712.2	5,649.1	-526.0	525,949.17	749,043.71	32° 26' 38.758 N	103° 39' 36.103 W
16,492.0	91.60	1.30	10,711.1	5,745.0	-524.6	526,045.14	749,045.05	32° 26' 39.708 N	103° 39' 36.080 W
16,586.0	90.10	0.00	10,709.7	5,839.0	-523.6	526,139.12	749,046.12	32° 26' 40.638 N	103° 39' 36.061 W
16,681.0	90.00	0.50	10,709.6	5,934.0	-523.2	526,234.12	749,046.53	32° 26' 41.578 N	103° 39' 36.049 W
16,776.0	90.20	0.80	10,709.4	6,029.0	-522.1	526,329.12	749,047.61	32° 26' 42.518 N	103° 39' 36.029 W
16,870.0	89.70	0.80	10,709.5	6,123.0	-520.8	526,423.11	749,048.92	32° 26' 43.447 N	103° 39' 36.007 W
16,965.0	89.80	1.10	10,709.9	6,218.0	-519.2	526,518.09	749,050.50	32° 26' 44.387 N	103° 39' 35.982 W
17,060.0	89.60	1.40	10,710.4	6,313.0	-517.1	526,613.07	749,052.57	32° 26' 45.327 N	103° 39' 35.951 W
17,155.0	90.50	0.40	10,710.4	6,408.0	-515.6	526,708.05	749,054.06	32° 26' 46.267 N	103° 39' 35.926 W
17,250.0	90.90	0.60	10,709.2	6,502.9	-514.8	526,803.04	749,054.89	32° 26' 47.207 N	103° 39' 35.910 W
17,344.0	90.60	1.50	10,708.0	6,596.9	-513.1	526,897.02	749,056.61	32° 26' 48.136 N	103° 39' 35.883 W
17,440.0	89.80	2.00	10,707.6	6,692.9	-510.2	526,992.97	749,059.54	32° 26' 49.086 N	103° 39' 35.841 W
17,535.0	90.30	1.70	10,707.5	6,787.8	-507.1	527,087.92	749,062.61	32° 26' 50.025 N	103° 39' 35.798 W
17,630.0	90.20	2.80	10,707.1	6,882.7	-503.4	527,182.85	749,066.34	32° 26' 50.964 N	103° 39' 35.748 W
17,725.0	90.60	1.90	10,706.5	6,977.7	-499.5	527,277.76	749,070.23	32° 26' 51.903 N	103° 39' 35.696 W
17,821.0	91.10	0.40	10,705.0	7,073.6	-497.5	527,373.73	749,072.16	32° 26' 52.852 N	103° 39' 35.666 W
17,915.0	90.70	358.70	10,703.6	7,167.6	-498.3	527,467.71	749,071.42	32° 26' 53.782 N	103° 39' 35.668 W
18,011.0	88.60	358.40	10,704.2	7,263.6	-500.7	527,563.67	749,068.99	32° 26' 54.732 N	103° 39' 35.689 W
18,105.0	90.90	358.00	10,704.6	7,357.5	-503.7	527,657.62	749,066.04	32° 26' 55.662 N	103° 39' 35.716 W
18,200.0	90.40	358.00	10,703.5	7,452.5	-507.0	527,752.56	749,062.73	32° 26' 56.602 N	103° 39' 35.748 W
18,295.0	90.20	358.40	10,703.0	7,547.4	-510.0	527,847.51	749,059.74	32° 26' 57.541 N	103° 39' 35.776 W
18,391.0	89.80	358.80	10,703.0	7,643.4	-512.3	527,943.48	749,057.40	32° 26' 58.491 N	103° 39' 35.796 W
18,486.0	92.00	358.60	10,701.5	7,738.3	-514.5	528,038.44	749,055.24	32° 26' 59.431 N	103° 39' 35.814 W
18,581.0	91.80	359.00	10,698.3	7,833.3	-516.4	528,133.36	749,053.25	32° 27' 0.370 N	103° 39' 35.831 W
18,676.0	90.70	359.60	10,696.3	7,928.2	-517.6	528,228.33	749,052.09	32° 27' 1.310 N	103° 39' 35.837 W
18,770.0	91.10	1.20	10,694.8	8,022.2	-516.9	528,322.31	749,052.75	32° 27' 2.240 N	103° 39' 35.823 W
18,866.0	90.00	0.40	10,693.9	8,118.2	-515.6	528,418.30	749,054.09	32° 27' 3.190 N	103° 39' 35.800 W
18,961.0	90.20	0.60	10,693.7	8,213.2	-514.8	528,513.29	749,054.92	32° 27' 4.130 N	103° 39' 35.783 W
19,056.0	90.40	0.70	10,693.2	8,308.2	-513.7	528,608.29	749,056.00	32° 27' 5.069 N	103° 39' 35.764 W
19,151.0	89.90	1.50	10,693.0	8,403.2	-511.9	528,703.27	749,057.82	32° 27' 6.009 N	103° 39' 35.735 W
19,246.0	90.20	359.80	10,692.9	8,498.2	-510.8	528,798.26	749,058.90	32° 27' 6.949 N	103° 39' 35.716 W
19,340.0	90.10	0.40	10,692.6	8,592.2	-510.6	528,892.26	749,059.06	32° 27' 7.879 N	103° 39' 35.707 W
19,436.0	89.50	0.40	10,693.0	8,688.2	-510.0	528,988.25	749,059.73	32° 27' 8.829 N	103° 39' 35.692 W
19,531.0	90.50	2.20	10,693.0	8,783.1	-507.8	529,083.22	749,061.89	32° 27' 9.769 N	103° 39' 35.660 W
19,625.0	90.70	0.60	10,692.0	8,877.1	-505.5	529,177.19	749,064.18	32° 27' 10.698 N	103° 39' 35.626 W
19,720.0	91.00	1.00	10,690.6	8,972.1	-504.2	529,272.17	749,065.51	32° 27' 11.638 N	103° 39' 35.604 W

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2OB Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Site:	Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2	MD Reference:	3717 + 27 @ 3744.0usft (Patterson 242)
Well:	Bilbrey 34-27 B2OB 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,816.0	91.30	359.90	10,688.7	9,068.0	-503.4	529,368.14	749,066.26	32° 27' 12.588 N	103° 39' 35.588 W
19,911.0	91.60	0.80	10,686.2	9,163.0	-502.9	529,463.11	749,066.84	32° 27' 13.527 N	103° 39' 35.574 W
20,007.0	91.40	1.60	10,683.7	9,259.0	-500.8	529,559.06	749,068.85	32° 27' 14.477 N	103° 39' 35.544 W
20,103.0	89.90	2.00	10,682.6	9,354.9	-497.8	529,655.00	749,071.87	32° 27' 15.426 N	103° 39' 35.501 W
20,198.0	87.00	359.10	10,685.2	9,449.8	-496.9	529,749.94	749,072.78	32° 27' 16.365 N	103° 39' 35.484 W
20,294.0	86.50	359.40	10,690.7	9,545.7	-498.2	529,845.78	749,071.53	32° 27' 17.313 N	103° 39' 35.491 W
20,390.0	86.60	0.60	10,696.4	9,641.5	-498.2	529,941.60	749,071.53	32° 27' 18.262 N	103° 39' 35.484 W
20,484.0	85.80	0.40	10,702.7	9,735.3	-497.4	530,035.39	749,072.35	32° 27' 19.190 N	103° 39' 35.468 W
20,579.0	86.90	359.70	10,708.7	9,830.1	-497.3	530,130.20	749,072.43	32° 27' 20.128 N	103° 39' 35.460 W
20,674.0	86.90	0.20	10,713.9	9,925.0	-497.4	530,225.06	749,072.35	32° 27' 21.066 N	103° 39' 35.454 W
20,768.0	87.00	0.00	10,718.9	10,018.8	-497.2	530,318.92	749,072.51	32° 27' 21.995 N	103° 39' 35.445 W
20,863.0	86.80	0.20	10,724.0	10,113.7	-497.0	530,413.78	749,072.67	32° 27' 22.934 N	103° 39' 35.436 W
20,951.0	86.80	0.60	10,728.9	10,201.5	-496.4	530,501.64	749,073.29	32° 27' 23.803 N	103° 39' 35.423 W
21,005.0	86.80	0.60	10,731.9	10,255.5	-495.8	530,555.56	749,073.85	32° 27' 24.337 N	103° 39' 35.412 W

21005.0' MD Projected to Bit - PBHL Bilbrey 34-27 B2OB Fed Com #2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
21,005.0	10,731.9	10,255.5	-495.8	21005.0' MD Projected to Bit

STRYKER

DIRECTIONAL

November 15, 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
Bilbrey 34-27 B2OB Federal Com #002H
Bilbrey Basin; Bone Spring
Lea County, New Mexico
API# 30-025-45009

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>
Mark Hergott	Original Hole	968ft. to 20,951ft.	08-16-18 to 09-12-18	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\Bilbrey 34-27 B2OB Fed Com #2H\M18112

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



November 15, 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 August 16, 2018, through September 12, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 968feet to a depth of 20,951feet; 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 B2OB Federal Com #2H ,well API # **30-025-45009** 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", 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



OCD Permitting

[Home](#) > [Wells](#) > [Well Details](#)

30-025-45009 BILBREY 34 27 B2OB FEDERAL COM #002H [319279]

General Well Information

Operator: [14744] MEWBOURNE OIL CO
 Status: New Direction: Horizontal
 Well Type: Oil Multi-Lateral: No
 Work Type: New Mineral Owner: Federal
 Surface Owner: Private
 Surface Location: O-34-21S-32E 205 FSL 1351 FEL
 Lat/Long: 32.4285633,-103.6584394 NAD83
 GL Elevation: 3717
 KB Elevation: Sing/Mult Compl: Single
 DF Elevation: Potash Waiver: False

Proposed Formation and/or Notes

Depths

Proposed: 20792 Total Vertical Depth: 0
 Measured Vertical Depth: 0 Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 07/18/2018
 Most Recent APD Approval: 07/20/2018 Current APD Expiration: 07/18/2020
 APD Cancellation:
 APD Extension Approval:
 Spud: Gas Capture Plan Received: 07/18/2018
 Approved Temporary TA Expiration:
 Abandonment:
 Shut In:
 Plug and Abandoned Intent PNR Expiration:
 Received: Last MIT/BHT:
 Well Plugged:
 Site Release:
 Last Inspection:

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
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Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pls](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)



COM

Comments**Operator****General Contact Information**

Company:	[14744] MEWBOURNE OIL CO	Main Phone:	575-393-5905
Address:	P.O. Box 5270	Main Fax:	575-393-7259
	Hobbs, NM 88241		
Country:	U.S.A.		

Central Contact

Name:	Robin Terrell	Phone Number:	575-393-5905
Title:	Hobbs Distric Manager	Cell Number:	575-390-4816
E-Mail Address:	rtterrell@mewbourne.com	Fax Number:	575-393-7259

Hobbs Contact

Name:	Robin Terrell	Phone Number:	575-393-5905
Title:		Cell Number:	575-390-4816
E-Mail Address:	rtterrell@mewbourne.com	Fax Number:	575-393-7259

Artesia Contact

Name:	Robin Terrell	Phone Number:	575-393-5905
Title:		Cell Number:	575-390-4816
E-Mail Address:	rtterrell@mewbourne.com	Fax Number:	575-393-7259

Pits

No Pits Found

Casing

No Casing Found

Well Completions**[5695] BILBREY BASIN; BONE SPRING**

Status:	New, Not Drilled	Last Produced:
Bottomhole Location:	B-27-21S-32E 331 FNL	1800 FEL
Lat/Long:		
Acreage:	320 27-21S-32E Units: B G J O	
	34-21S-32E Units: B G J O	



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed
Well: Bilbrey 34-27 B2OB Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2OB Fed Com #2H
TVD Reference: 3717 + 27 @ 3744.0usft (Patterson 242)
MD Reference: 3717 + 27 @ 3744.0usft (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 34-27-21S-32E Bilbrey 34-27 B2OB Fed Com 2		
Site Position:		Northing:	520,300.10 usft
From:	Map	Easting:	749,569.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 25' 42.828 N
		Longitude:	103° 39' 30.381 W
		Grid Convergence:	0.36 °

Well	Bilbrey 34-27 B2OB Fed Com #2H					
Well Position	+N-S	0.0 usft	Northing:	520,300.10 usft	Latitude:	32° 25' 42.828 N
	+E-W	0.0 usft	Easting:	749,569.70 usft	Longitude:	103° 39' 30.381 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level:	3,717.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/17/2018	6.89	60.22	47,836.70119661

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(")	
	0.0	0.0	0.0	234.77	

Survey Program		Date 9/11/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
968.0	21,005.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed
Well: Bilbrey 34-27 B2OB Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2OB Fed Com #2H
TVD Reference: 3717 + 27 @ 3744.0usft (Patterson 242)
MD Reference: 3717 + 27 @ 3744.0usft (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 (°)
848.0	3.07	223.33	847.8	2,896.2	-9.9	-9.1	13.4	222.46
Tie-In To Phoenix Gyro								
968.0	4.80	232.10	967.5	2,776.5	-15.3	-15.2	21.6	224.82
1,094.0	1.90	263.50	1,093.3	2,650.7	-18.8	-21.5	28.5	228.79
1,221.0	1.80	335.40	1,220.2	2,523.8	-17.2	-24.4	29.9	234.77
1,412.0	1.90	322.00	1,411.1	2,332.9	-12.0	-27.6	30.1	246.49
1,602.0	2.10	325.30	1,601.0	2,143.0	-6.7	-31.5	32.2	258.07
1,793.0	2.00	323.80	1,791.9	1,952.1	-1.1	-35.5	35.5	268.24
1,982.0	2.20	312.70	1,980.8	1,763.2	4.0	-40.1	40.3	275.75
2,170.0	2.70	325.00	2,168.6	1,575.4	10.1	-45.3	46.4	282.58
2,359.0	2.80	339.10	2,357.4	1,386.6	18.1	-49.5	52.7	290.06
2,546.0	3.10	347.40	2,544.1	1,199.9	27.3	-52.2	58.9	297.58
2,735.0	4.20	10.70	2,732.8	1,011.2	39.1	-52.0	65.1	306.89
2,923.0	3.30	39.90	2,920.4	823.6	50.0	-47.3	68.8	316.58
3,112.0	3.60	83.00	3,109.1	634.9	54.9	-37.9	66.7	325.36
3,300.0	3.70	121.10	3,296.7	447.3	52.5	-26.9	58.9	332.89
3,489.0	4.00	181.70	3,485.4	258.6	42.7	-21.8	48.0	332.94
3,678.0	3.20	266.90	3,674.1	69.9	35.8	-27.3	45.0	322.71
3,866.0	2.90	269.30	3,861.8	-117.8	35.5	-37.3	51.5	313.59
4,055.0	3.30	277.40	4,050.6	-306.6	36.1	-47.5	59.6	307.29
4,242.0	3.10	283.00	4,237.3	-493.3	38.0	-57.7	69.1	303.33
4,431.0	3.30	287.60	4,426.0	-682.0	40.8	-67.9	79.2	300.98
4,619.0	4.00	294.70	4,613.6	-869.6	45.1	-79.0	91.0	299.74
4,676.0	4.30	296.20	4,670.4	-926.4	46.9	-82.7	95.1	299.56
4,811.0	6.90	271.00	4,804.8	-1,080.8	49.3	-95.4	107.4	297.33
5,000.0	7.80	255.60	4,992.3	-1,248.3	46.3	-119.2	127.8	291.23
5,189.0	6.80	238.10	5,179.8	-1,435.8	37.2	-141.1	145.9	284.77



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 34-27-21S-32E Bilbrey 34-27 B2OB Fed
Well: Bilbrey 34-27 B2OB Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2OB Fed Com #2H
TVD Reference: 3717 + 27 @ 3744.0usft (Patterson 242)
MD Reference: 3717 + 27 @ 3744.0usft (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 (°)
5,378.0	7.10	235.20	5,367.4	-1,623.4	24.6	-160.2	162.1	278.74
5,568.0	5.50	234.50	5,556.2	-1,812.2	12.6	-177.2	177.7	274.07
5,757.0	5.60	229.10	5,744.3	-2,000.3	1.3	-191.6	191.6	270.40
5,946.0	5.50	230.80	5,932.4	-2,188.4	-10.4	-205.6	205.8	267.09
6,135.0	6.10	227.00	6,120.5	-2,376.5	-23.0	-219.9	221.1	264.03
6,324.0	6.40	228.10	6,308.4	-2,564.4	-36.9	-235.1	238.0	261.08
6,512.0	5.00	241.40	6,495.4	-2,751.4	-47.8	-250.1	254.6	259.18
6,700.0	4.90	243.90	6,682.7	-2,938.7	-55.3	-264.5	270.2	258.20
6,889.0	5.10	245.50	6,871.0	-3,127.0	-62.3	-279.4	286.3	257.43
7,077.0	5.50	243.00	7,058.2	-3,314.2	-69.9	-295.0	303.2	256.68
7,266.0	4.80	238.60	7,246.4	-3,502.4	-78.1	-309.8	319.5	255.85
7,453.0	5.00	235.60	7,432.8	-3,688.8	-86.8	-323.3	334.7	254.97
7,641.0	4.80	229.60	7,620.1	-3,876.1	-96.5	-336.0	349.6	253.98
7,829.0	5.10	228.90	7,807.4	-4,063.4	-107.1	-348.3	364.4	252.91
8,018.0	5.30	222.80	7,995.6	-4,251.6	-119.0	-360.5	379.7	251.73
8,206.0	4.70	235.70	8,182.9	-4,438.9	-129.7	-372.8	394.7	250.81
8,393.0	4.60	229.20	8,369.3	-4,625.3	-138.9	-384.8	409.1	250.15
8,581.0	4.70	231.70	8,556.6	-4,812.6	-148.6	-396.6	423.5	249.45
8,769.0	4.40	229.70	8,744.1	-5,000.1	-158.1	-408.1	437.7	248.83
8,957.0	4.30	232.10	8,931.5	-5,187.5	-167.1	-419.2	451.2	248.27
9,144.0	3.20	219.00	9,118.1	-5,374.1	-175.4	-428.0	462.6	247.71
9,330.0	1.70	192.10	9,303.9	-5,559.9	-182.2	-431.8	468.7	247.13
9,517.0	1.10	220.10	9,490.9	-5,746.9	-186.3	-433.6	471.9	246.75
9,704.0	1.60	261.40	9,677.8	-5,933.8	-188.0	-437.3	476.0	246.74
9,892.0	2.30	239.90	9,865.7	-6,121.7	-190.3	-443.2	482.3	246.76
10,080.0	2.00	241.20	10,053.6	-6,309.6	-193.8	-449.3	489.3	246.67



Microsoft
MWD Surveys



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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 (°)
10,228.4	1.72	246.87	10,199.9	-6,455.9	-195.9	-453.6	494.1	246.64
B.B. Bilbrey 34-27 B2OB Fed Com #2H								
10,238.0	1.70	247.40	10,211.5	-6,467.5	-196.0	-453.9	494.4	246.64
10,287.0	1.50	299.70	10,260.5	-6,516.5	-196.0	-455.1	495.5	246.70
10,318.0	5.00	346.50	10,291.5	-6,547.5	-194.5	-455.8	495.5	246.90
10,350.0	9.50	352.50	10,323.2	-6,579.2	-190.5	-456.5	494.6	247.35
10,381.0	14.20	353.70	10,353.5	-6,609.5	-184.2	-457.2	492.9	248.06
10,413.0	18.40	355.80	10,384.2	-6,640.2	-175.2	-458.0	490.4	249.07
10,444.0	22.30	358.00	10,413.3	-6,669.3	-164.5	-458.6	487.2	250.27
10,475.0	25.60	359.40	10,441.6	-6,697.6	-151.9	-458.8	483.3	251.69
10,507.0	28.50	0.80	10,470.1	-6,726.1	-137.3	-458.8	478.9	253.34
10,538.0	31.50	2.00	10,497.0	-6,753.0	-121.8	-458.4	474.3	255.12
10,570.0	35.50	1.70	10,523.6	-6,779.6	-104.2	-457.9	469.6	257.18
10,602.0	39.20	0.90	10,549.1	-6,805.1	-84.8	-457.4	465.2	259.50
10,633.0	41.90	1.00	10,572.6	-6,828.6	-64.6	-457.1	461.6	261.95
10,664.0	45.30	0.60	10,595.1	-6,851.1	-43.3	-456.8	458.8	264.59
10,696.0	49.50	0.20	10,616.7	-6,872.7	-19.7	-456.6	457.1	267.53
10,727.0	54.20	359.90	10,635.9	-6,891.9	4.7	-456.6	456.6	270.59
10,759.0	57.60	0.20	10,653.8	-6,909.8	31.2	-456.6	457.7	273.90
10,791.0	60.80	0.70	10,670.2	-6,926.2	58.6	-456.4	460.1	277.32
10,822.0	64.40	1.10	10,684.4	-6,940.4	86.2	-455.9	464.0	280.70
10,853.0	68.90	1.10	10,696.7	-6,952.7	114.6	-455.4	469.6	284.13
10,873.8	71.30	0.97	10,703.8	-6,959.8	134.1	-455.0	474.4	286.42
LP Bilbrey 34-27 B2OB Fed Com #2H								
10,885.0	72.60	0.90	10,707.3	-6,963.3	144.8	-454.9	477.4	287.66
10,916.0	75.30	0.70	10,715.9	-6,971.9	174.6	-454.5	486.8	291.02
10,948.0	78.70	0.00	10,723.0	-6,979.0	205.8	-454.3	498.7	294.37



Microsoft
MWD Surveys



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Well: Bilbrey 34-27 B2OB Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

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TVD Reference: 3717 + 27 @ 3744.0usft (Patterson 242)
MD Reference: 3717 + 27 @ 3744.0usft (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 (°)
10,967.0	81.00	359.80	10,726.4	-6,982.4	224.5	-454.3	506.7	296.29
11,016.0	84.40	0.60	10,732.6	-6,988.6	273.1	-454.1	529.9	301.02
11,110.0	86.90	359.20	10,739.8	-6,995.8	366.8	-454.3	583.9	308.92
11,205.0	90.20	359.60	10,742.2	-6,998.2	461.7	-455.3	648.4	315.40
11,299.0	89.80	0.10	10,742.2	-6,998.2	555.7	-455.5	718.6	320.66
11,393.0	91.50	2.10	10,741.1	-6,997.1	649.7	-453.7	792.4	325.07
11,487.0	92.00	2.80	10,738.2	-6,994.2	743.6	-449.7	869.0	328.83
11,581.0	91.80	2.50	10,735.1	-6,991.1	837.4	-445.4	948.5	331.99
11,677.0	88.40	0.70	10,734.9	-6,990.9	933.4	-442.7	1,033.0	334.63
11,771.0	90.50	2.30	10,735.8	-6,991.8	1,027.3	-440.2	1,117.7	336.80
11,865.0	89.30	0.70	10,736.0	-6,992.0	1,121.3	-437.8	1,203.7	338.67
11,960.0	88.90	1.30	10,737.5	-6,993.5	1,216.3	-436.1	1,292.1	340.27
12,054.0	89.70	359.50	10,738.6	-6,994.6	1,310.2	-435.4	1,380.7	341.62
12,149.0	91.30	0.10	10,737.8	-6,993.8	1,405.2	-435.8	1,471.3	342.77
12,244.0	89.90	358.50	10,736.8	-6,992.8	1,500.2	-436.9	1,562.5	343.76
12,338.0	91.50	359.70	10,735.7	-6,991.7	1,594.2	-438.4	1,653.4	344.62
12,433.0	91.30	357.80	10,733.3	-6,989.3	1,689.1	-440.5	1,745.6	345.38
12,526.0	92.50	358.50	10,730.3	-6,986.3	1,782.0	-443.5	1,836.4	346.02
12,621.0	90.00	356.60	10,728.2	-6,984.2	1,876.9	-447.6	1,929.5	346.59
12,715.0	88.00	356.00	10,729.8	-6,985.8	1,970.7	-453.6	2,022.2	347.04
12,809.0	89.30	356.10	10,732.0	-6,988.0	2,064.4	-460.1	2,115.1	347.44
12,904.0	90.40	356.60	10,732.3	-6,988.3	2,159.3	-466.1	2,209.0	347.82
12,998.0	91.40	357.70	10,730.8	-6,986.8	2,253.1	-470.8	2,301.8	348.20
13,093.0	92.00	358.60	10,728.0	-6,984.0	2,348.0	-473.9	2,395.4	348.59
13,187.0	89.10	359.50	10,727.1	-6,983.1	2,442.0	-475.4	2,487.8	348.98
13,282.0	90.20	359.50	10,727.7	-6,983.7	2,537.0	-476.3	2,581.3	349.37
13,376.0	89.10	0.60	10,728.3	-6,984.3	2,631.0	-476.2	2,673.7	349.74



Microsoft
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Wellbore: Original Hole
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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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 (°)
13,470.0	89.80	1.00	10,729.2	-6,985.2	2,725.0	-474.9	2,766.0	350.11
13,565.0	90.00	2.10	10,729.3	-6,985.3	2,819.9	-472.3	2,859.2	350.49
13,659.0	89.90	358.70	10,729.4	-6,985.4	2,913.9	-471.6	2,951.8	350.81
13,753.0	89.60	359.20	10,729.8	-6,985.8	3,007.9	-473.4	3,044.9	351.06
13,848.0	89.90	359.90	10,730.2	-6,986.2	3,102.9	-474.1	3,138.9	351.31
13,942.0	89.80	0.40	10,730.5	-6,986.5	3,196.9	-473.9	3,231.8	351.57
14,037.0	92.60	358.60	10,728.5	-6,984.5	3,291.9	-474.7	3,325.9	351.79
14,131.0	92.80	359.20	10,724.1	-6,980.1	3,385.7	-476.5	3,419.1	351.99
14,225.0	91.80	358.30	10,720.3	-6,976.3	3,479.6	-478.5	3,512.4	352.17
14,320.0	90.40	357.10	10,718.5	-6,974.5	3,574.5	-482.4	3,606.9	352.31
14,414.0	88.00	357.10	10,719.8	-6,975.8	3,668.4	-487.1	3,700.6	352.44
14,508.0	87.60	357.20	10,723.4	-6,979.4	3,762.2	-491.8	3,794.2	352.55
14,603.0	90.40	356.70	10,725.0	-6,981.0	3,857.1	-496.8	3,888.9	352.66
14,697.0	88.80	356.90	10,725.7	-6,981.7	3,950.9	-502.1	3,982.7	352.76
14,792.0	89.60	357.70	10,727.0	-6,983.0	4,045.8	-506.6	4,077.4	352.86
14,886.0	92.20	358.80	10,725.5	-6,981.5	4,139.7	-509.4	4,171.0	352.98
14,980.0	93.00	359.30	10,721.3	-6,977.3	4,233.6	-511.0	4,264.3	353.12
15,074.0	91.10	359.40	10,717.9	-6,973.9	4,327.5	-512.1	4,357.7	353.25
15,169.0	88.40	359.00	10,718.3	-6,974.3	4,422.5	-513.4	4,452.2	353.38
15,264.0	89.00	359.10	10,720.5	-6,976.5	4,517.5	-515.0	4,546.7	353.50
15,358.0	88.60	359.80	10,722.5	-6,978.5	4,611.5	-515.9	4,640.2	353.62
15,453.0	91.30	359.10	10,722.5	-6,978.5	4,706.4	-516.8	4,734.7	353.73
15,547.0	91.90	359.90	10,719.9	-6,975.9	4,800.4	-517.6	4,828.2	353.85
15,641.0	93.90	359.80	10,715.2	-6,971.2	4,894.3	-517.8	4,921.6	353.96
15,736.0	91.20	359.60	10,710.9	-6,966.9	4,989.2	-518.3	5,016.0	354.07
15,829.0	90.30	358.80	10,709.7	-6,965.7	5,082.2	-519.6	5,108.7	354.16
15,924.0	90.90	359.30	10,708.7	-6,964.7	5,177.1	-521.2	5,203.3	354.25



Microsoft
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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 (°)
16,019.0	89.00	359.10	10,708.8	-6,964.8	5,272.1	-522.5	5,298.0	354.34
16,113.0	88.40	359.10	10,710.9	-6,966.9	5,366.1	-524.0	5,391.6	354.42
16,208.0	90.30	359.20	10,712.0	-6,968.0	5,461.1	-525.4	5,486.3	354.50
16,302.0	89.90	359.90	10,711.9	-6,967.9	5,555.1	-526.2	5,579.9	354.59
16,396.0	89.70	0.30	10,712.2	-6,968.2	5,649.1	-526.0	5,673.5	354.68
16,492.0	91.60	1.30	10,711.1	-6,967.1	5,745.0	-524.6	5,768.9	354.78
16,586.0	90.10	0.00	10,709.7	-6,965.7	5,839.0	-523.6	5,862.4	354.88
16,681.0	90.00	0.50	10,709.6	-6,965.6	5,934.0	-523.2	5,957.0	354.96
16,776.0	90.20	0.80	10,709.4	-6,965.4	6,029.0	-522.1	6,051.6	355.05
16,870.0	89.70	0.80	10,709.5	-6,965.5	6,123.0	-520.8	6,145.1	355.14
16,965.0	89.80	1.10	10,709.9	-6,965.9	6,218.0	-519.2	6,239.6	355.23
17,060.0	89.60	1.40	10,710.4	-6,966.4	6,313.0	-517.1	6,334.1	355.32
17,155.0	90.50	0.40	10,710.4	-6,966.4	6,408.0	-515.6	6,428.7	355.40
17,250.0	90.90	0.60	10,709.2	-6,965.2	6,502.9	-514.8	6,523.3	355.47
17,344.0	90.60	1.50	10,708.0	-6,964.0	6,596.9	-513.1	6,616.8	355.55
17,440.0	89.80	2.00	10,707.6	-6,963.6	6,692.9	-510.2	6,712.3	355.64
17,535.0	90.30	1.70	10,707.5	-6,963.5	6,787.8	-507.1	6,806.7	355.73
17,630.0	90.20	2.80	10,707.1	-6,963.1	6,882.7	-503.4	6,901.1	355.82
17,725.0	90.60	1.90	10,706.5	-6,962.5	6,977.7	-499.5	6,995.5	355.91
17,821.0	91.10	0.40	10,705.0	-6,961.0	7,073.6	-497.5	7,091.1	355.98
17,915.0	90.70	358.70	10,703.6	-6,959.6	7,167.6	-498.3	7,184.9	356.02
18,011.0	88.60	358.40	10,704.2	-6,960.2	7,263.6	-500.7	7,280.8	356.06
18,105.0	90.90	358.00	10,704.6	-6,960.6	7,357.5	-503.7	7,374.7	356.08
18,200.0	90.40	358.00	10,703.5	-6,959.5	7,452.5	-507.0	7,469.7	356.11
18,295.0	90.20	358.40	10,703.0	-6,959.0	7,547.4	-510.0	7,564.6	356.13
18,391.0	89.80	358.80	10,703.0	-6,959.0	7,643.4	-512.3	7,660.5	356.17
18,486.0	92.00	358.60	10,701.5	-6,957.5	7,738.3	-514.5	7,755.4	356.20



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North Reference: Grid
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Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
18,581.0	91.80	359.00	10,698.3	-6,954.3	7,833.3	-516.4	7,850.3	356.23
18,676.0	90.70	359.60	10,696.3	-6,952.3	7,928.2	-517.6	7,945.1	356.26
18,770.0	91.10	1.20	10,694.8	-6,950.8	8,022.2	-516.9	8,038.9	356.31
18,866.0	90.00	0.40	10,693.9	-6,949.9	8,118.2	-515.6	8,134.6	356.37
18,961.0	90.20	0.60	10,693.7	-6,949.7	8,213.2	-514.8	8,229.3	356.41
19,056.0	90.40	0.70	10,693.2	-6,949.2	8,308.2	-513.7	8,324.1	356.46
19,151.0	89.90	1.50	10,693.0	-6,949.0	8,403.2	-511.9	8,418.7	356.51
19,246.0	90.20	359.80	10,692.9	-6,948.9	8,498.2	-510.8	8,513.5	356.56
19,340.0	90.10	0.40	10,692.6	-6,948.6	8,592.2	-510.6	8,607.3	356.60
19,436.0	89.50	0.40	10,693.0	-6,949.0	8,688.2	-510.0	8,703.1	356.64
19,531.0	90.50	2.20	10,693.0	-6,949.0	8,783.1	-507.8	8,797.8	356.69
19,625.0	90.70	0.60	10,692.0	-6,948.0	8,877.1	-505.5	8,891.5	356.74
19,720.0	91.00	1.00	10,690.6	-6,946.6	8,972.1	-504.2	8,986.2	356.78
19,816.0	91.30	359.90	10,688.7	-6,944.7	9,068.0	-503.4	9,082.0	356.82
19,911.0	91.60	0.80	10,686.2	-6,942.2	9,163.0	-502.9	9,176.8	356.86
20,007.0	91.40	1.60	10,683.7	-6,939.7	9,259.0	-500.8	9,272.5	356.90
20,103.0	89.90	2.00	10,682.6	-6,938.6	9,354.9	-497.8	9,368.1	356.95
20,198.0	87.00	359.10	10,685.2	-6,941.2	9,449.8	-496.9	9,462.9	356.99
20,294.0	86.50	359.40	10,690.7	-6,946.7	9,545.7	-498.2	9,558.7	357.01
20,390.0	86.60	0.60	10,696.4	-6,952.4	9,641.5	-498.2	9,654.4	357.04
20,484.0	85.80	0.40	10,702.7	-6,958.7	9,735.3	-497.4	9,748.0	357.08
20,579.0	86.90	359.70	10,708.7	-6,964.7	9,830.1	-497.3	9,842.7	357.10
20,674.0	86.90	0.20	10,713.9	-6,969.9	9,925.0	-497.4	9,937.4	357.13
20,768.0	87.00	0.00	10,718.9	-6,974.9	10,018.8	-497.2	10,031.1	357.16
20,863.0	86.80	0.20	10,724.0	-6,980.0	10,113.7	-497.0	10,125.9	357.19
20,951.0	86.80	0.60	10,728.9	-6,984.9	10,201.5	-496.4	10,213.6	357.21



Microsoft MWD Surveys



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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 (°)
21,005.0	86.80	0.60	10,731.9	-8,987.9	10,255.5	-495.8	10,267.4	357.23

21005.0' MD Projected to Bit - PBHL Bilbrey 34-27 B2OB Fed Com #2H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
848.0	847.8	-9.9	-9.1	Tie-In To Phoenix Gyro
21,005.0	10,731.9	10,255.5	-495.8	21005.0' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Bilbrey 34-27 B2OB Fed Com #2H
 COUNTY: Lea County N. M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson 242



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.53°

GEODETIC ZONE: New Mexico Eastern Zone												
3717 + 27 @ 3744.0usft (Patterson 242)												
GROUND ELEVATION: 3717.0												
+N/-S		+E/-W		Northing		Easting		Latitude		Longitude		Slot
0.0		0.0		520300.10		749569.70		32° 25' 42.828 N		103° 39' 30.381 W		
PLAN SECTIONS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sekt	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	5171.7	5.57	245.98	5171.1	-7.4	-16.5	1.50	245.98	-6.5			
4	9851.7	5.57	245.98	9828.9	-192.4	-431.8	0.00	0.00	-170.9			
5	10223.3	0.00	0.00	10200.0	-199.8	-448.3	1.50	180.00	-177.4	B.B. Bilbrey 34-27 B2OB Fed Com #2H		
6	10289.8	0.00	0.00	10266.5	-199.8	-448.3	0.00	0.00	-177.4			
7	11042.7	90.34	359.68	10744.0	280.5	-451.0	12.00	359.68	302.5			
8	21024.3	90.34	359.68	10684.0	10261.8	-507.1	0.00	0.00	10274.3	PBHL Bilbrey 34-27 B2OB Fed Com #2H		

SHL: 205' FSL; 1351' FEL
 Section 34-21S-32E
 PBHL: 100' FNL; 1800' FEL
 Section 27-21S-32E

