



COMPANY: Mewbourne Oil Company
WELL: Bilbrey 34-27 B2NC Federal Com #1H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson #231

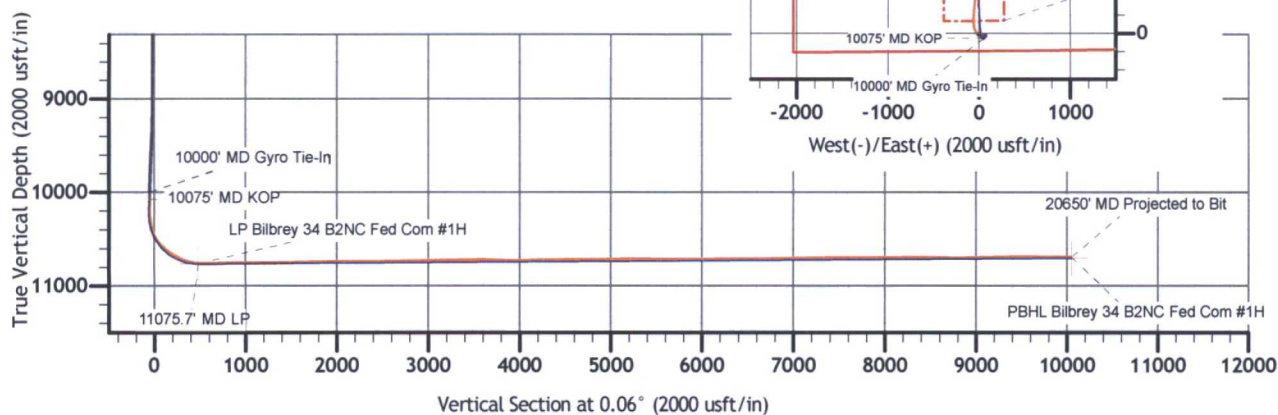
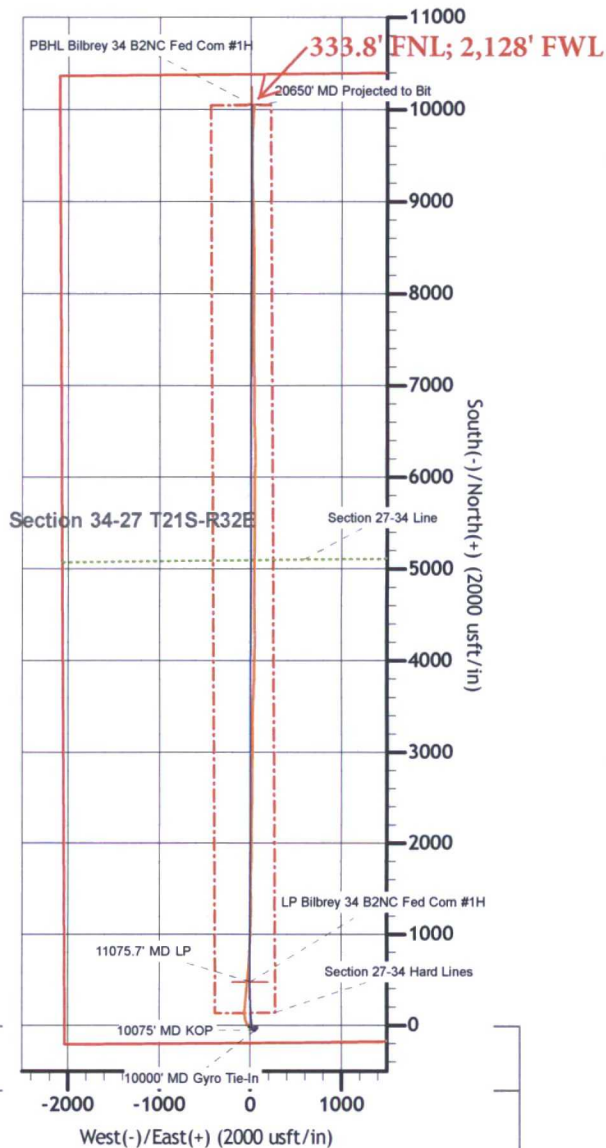
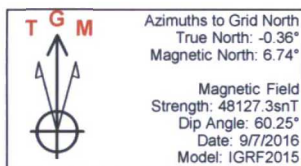


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.74°

GEODEIC ZONE: New Mexico East 3001					
GL 3753+27 @ 3780.0usft (Patterson #231)					
GROUND ELEVATION: 3753.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	520199.70	706486.30	32° 25' 42.113 N	103° 39' 50.809 W
					Slot

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	10000.0	1.70	116.13	9997.1	-49.7	54.9	0.00	0.00	-49.7	
2	10068.0	0.00	0.00	10065.1	-50.2	55.8	2.50	180.00	-50.1	
3	10075.0	0.00	0.00	10072.1	-50.2	55.8	0.00	0.00	-50.1	
4	10158.6	8.92	213.30	10155.4	-55.6	52.2	10.67	213.30	-55.5	
5	11075.7	90.36	0.06	10760.0	480.5	0.4	10.66	146.41	480.5	LP Bilbrey 34 B2NC Fed Com #1H
6	20652.1	90.36	0.06	10700.0	10056.7	10.0	0.00	0.00	10056.7	PBHL Bilbrey 34 B2NC Fed Com #1H

SHL- 185' FSL & 2030' FWL
Section 34 21S-32E
PBHL- 330' FNL & 2100' FWL
Section 27 21S-32E





HOBBS OCD
APR 03 2017
RECEIVED

Mewbourne Oil Company

Lea County N.M.

Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com
Bilbrey 34-27 B2NC Federal Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

07 October, 2016





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2NC Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3753+27 @ 3780.0usft (Patterson #231)
Site:	Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com	MD Reference:	GL 3753+27 @ 3780.0usft (Patterson #231)
Well:	Bilbrey 34-27 B2NC Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N.M.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com			
Site Position:		Northing:	520,199.70 usft	Latitude: 32° 25' 42.113 N
From:	Map	Easting:	706,486.30 usft	Longitude: 103° 39' 50.809 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.36 °

Well	Bilbrey 34-27 B2NC Federal Com #1H			
Well Position	+N/-S	0.0 usft	Northing:	520,199.70 usft
	+E/-W	0.0 usft	Easting:	706,486.30 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft
			Ground Level:	3,753.0 usft

Wellbore	Original Hole			
-----------------	---------------	--	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/7/2016	7.10	60.25	48,127

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	106.80

Survey Program		Date 10/7/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	10,000.0	Phoenix Tech Survey Gyro (Original Hole)	GyroFlex		
10,150.0	20,650.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.66	138.73	100.0	-0.4	0.4	0.5	0.66	0.66	0.00
200.0	0.25	137.57	200.0	-1.0	0.9	1.2	0.41	-0.41	-1.16
300.0	0.54	250.51	300.0	-1.3	0.6	1.0	0.68	0.29	112.94
400.0	0.05	247.25	400.0	-1.5	0.1	0.6	0.49	-0.49	-3.26
500.0	0.63	239.23	500.0	-1.8	-0.4	0.2	0.58	0.58	-8.02
600.0	0.78	222.29	600.0	-2.6	-1.3	-0.5	0.26	0.15	-16.94
700.0	0.93	192.50	700.0	-3.9	-2.0	-0.7	0.46	0.15	-29.79
800.0	1.96	220.93	799.9	-6.0	-3.2	-1.4	1.22	1.03	28.43



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC
Fed Com
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
900.0	2.17	218.73	899.9	-8.8	-5.6	-2.8	0.22	0.21	-2.20
1,000.0	1.73	292.94	999.8	-9.6	-8.1	-5.0	2.38	-0.44	74.21
1,100.0	0.77	84.14	1,099.8	-9.0	-8.8	-5.9	2.43	-0.96	151.20
1,200.0	0.88	73.55	1,199.8	-8.7	-7.4	-4.6	0.19	0.11	-10.59
1,300.0	1.01	82.84	1,299.8	-8.4	-5.8	-3.2	0.20	0.13	9.29
1,400.0	1.03	101.89	1,399.8	-8.4	-4.1	-1.5	0.34	0.02	19.05
1,500.0	0.86	125.01	1,499.8	-9.1	-2.6	0.1	0.41	-0.17	23.12
1,600.0	0.95	142.60	1,599.8	-10.1	-1.5	1.5	0.29	0.09	17.59
1,700.0	0.90	122.05	1,699.7	-11.2	-0.3	3.0	0.33	-0.05	-20.55
1,800.0	1.00	113.48	1,799.7	-12.0	1.2	4.6	0.17	0.10	-8.57
1,900.0	0.74	89.51	1,899.7	-12.3	2.6	6.1	0.44	-0.26	-23.97
2,000.0	0.93	122.73	1,999.7	-12.8	3.9	7.5	0.51	0.19	33.22
2,100.0	0.96	140.06	2,099.7	-13.8	5.2	8.9	0.29	0.03	17.33
2,200.0	1.20	109.94	2,199.7	-14.8	6.7	10.7	0.61	0.24	-30.12
2,300.0	1.76	97.24	2,299.6	-15.4	9.2	13.3	0.65	0.56	-12.70
2,400.0	2.31	95.13	2,399.6	-15.8	12.7	16.7	0.55	0.55	-2.11
2,500.0	2.58	88.52	2,499.5	-15.9	17.0	20.8	0.39	0.27	-6.61
2,600.0	0.36	193.50	2,599.5	-16.1	19.2	23.0	2.70	-2.22	104.98
2,700.0	0.41	158.84	2,699.5	-16.8	19.2	23.2	0.23	0.05	-34.66
2,800.0	1.42	84.48	2,799.4	-17.0	20.6	24.6	1.37	1.01	-74.36
2,900.0	2.36	83.90	2,899.4	-16.7	23.9	27.7	0.94	0.94	-0.58
3,000.0	2.64	102.95	2,999.3	-17.0	28.1	31.8	0.87	0.28	19.05
3,100.0	1.05	157.14	3,099.2	-18.3	30.7	34.7	2.20	-1.59	54.19
3,200.0	1.04	147.44	3,199.2	-19.9	31.6	36.0	0.18	-0.01	-9.70
3,300.0	1.80	143.74	3,299.2	-22.0	33.0	37.9	0.77	0.76	-3.70
3,400.0	2.68	127.40	3,399.1	-24.6	35.8	41.4	1.08	0.88	-16.34
3,500.0	1.66	116.70	3,499.0	-26.7	38.9	45.0	1.09	-1.02	-10.70
3,600.0	1.06	74.04	3,599.0	-27.1	41.1	47.2	1.14	-0.60	-42.66
3,700.0	2.68	76.85	3,699.0	-26.3	44.3	50.0	1.62	1.62	2.81
3,800.0	2.70	81.90	3,798.9	-25.5	48.9	54.2	0.24	0.02	5.05
3,900.0	2.52	92.63	3,898.7	-25.2	53.4	58.4	0.52	-0.18	10.73
4,000.0	1.75	132.14	3,998.7	-26.4	56.8	62.0	1.61	-0.77	39.51
4,100.0	1.70	141.15	4,098.6	-28.5	58.8	64.6	0.28	-0.05	9.01
4,200.0	3.62	103.93	4,198.5	-30.4	62.8	68.9	2.49	1.92	-37.22
4,300.0	1.80	64.78	4,298.4	-30.5	67.3	73.3	2.50	-1.82	-39.15
4,400.0	1.91	49.01	4,398.4	-28.8	70.0	75.3	0.52	0.11	-15.77
4,500.0	0.96	55.76	4,498.3	-27.2	71.9	76.7	0.96	-0.95	6.75
4,600.0	1.01	70.23	4,598.3	-26.4	73.5	78.0	0.25	0.05	14.47
4,700.0	1.22	42.14	4,698.3	-25.4	75.0	79.1	0.58	0.21	-28.09
4,800.0	1.16	40.27	4,798.3	-23.8	76.4	80.0	0.07	-0.06	-1.87
4,900.0	0.77	317.06	4,898.3	-22.5	76.6	79.8	1.31	-0.39	-83.21
5,000.0	0.55	321.83	4,998.3	-21.7	75.8	78.8	0.23	-0.22	4.77



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	0.47	245.06	5,098.3	-21.5	75.1	78.1	0.64	-0.08	-76.77
5,200.0	0.36	309.00	5,198.3	-21.4	74.5	77.5	0.45	-0.11	63.94
5,300.0	0.19	107.45	5,298.3	-21.3	74.4	77.4	0.54	-0.17	158.45
5,400.0	0.03	298.81	5,398.3	-21.3	74.6	77.6	0.22	-0.16	-168.64
5,500.0	0.04	143.86	5,498.3	-21.3	74.6	77.6	0.07	0.01	-154.95
5,600.0	0.32	41.78	5,598.3	-21.2	74.8	77.7	0.33	0.28	-102.08
5,700.0	0.23	235.83	5,698.3	-21.1	74.8	77.7	0.55	-0.09	-165.95
5,800.0	0.28	270.12	5,798.3	-21.2	74.4	77.3	0.16	0.05	34.29
5,900.0	0.44	305.63	5,898.3	-20.9	73.8	76.7	0.27	0.16	35.51
6,000.0	0.83	304.53	5,998.3	-20.3	72.9	75.7	0.39	0.39	-1.10
6,100.0	0.77	39.79	6,098.2	-19.4	72.8	75.3	1.18	-0.06	95.26
6,200.0	0.82	324.49	6,198.2	-18.3	72.8	75.0	0.97	0.05	-75.30
6,300.0	0.69	329.24	6,298.2	-17.2	72.1	73.9	0.14	-0.13	4.75
6,400.0	0.43	324.43	6,398.2	-16.4	71.5	73.2	0.26	-0.26	-4.81
6,500.0	0.51	260.15	6,498.2	-16.1	70.9	72.5	0.50	0.08	-64.28
6,600.0	0.28	158.14	6,598.2	-16.4	70.5	72.3	0.63	-0.23	-102.01
6,700.0	0.32	203.12	6,698.2	-16.9	70.5	72.4	0.23	0.04	44.98
6,800.0	0.52	336.54	6,798.2	-16.8	70.2	72.1	0.78	0.20	133.42
6,900.0	0.44	313.44	6,898.2	-16.1	69.8	71.4	0.21	-0.08	-23.10
7,000.0	0.56	276.75	6,998.2	-15.8	69.0	70.6	0.33	0.12	-36.69
7,100.0	0.58	271.82	7,098.2	-15.7	68.0	69.6	0.05	0.02	-4.93
7,200.0	0.26	192.16	7,198.2	-15.9	67.4	69.2	0.59	-0.32	-79.66
7,300.0	0.83	102.63	7,298.2	-16.3	68.1	69.9	0.87	0.57	-89.53
7,400.0	0.53	355.42	7,398.2	-16.0	68.8	70.5	1.11	-0.30	-107.21
7,500.0	0.75	59.72	7,498.2	-15.2	69.3	70.7	0.71	0.22	64.30
7,600.0	0.36	190.38	7,598.2	-15.2	69.8	71.2	1.02	-0.39	130.66
7,700.0	0.52	186.56	7,698.2	-15.9	69.7	71.3	0.16	0.16	-3.82
7,800.0	0.63	31.63	7,798.2	-15.9	69.9	71.5	1.12	0.11	-154.93
7,900.0	0.31	73.85	7,898.2	-15.4	70.5	71.9	0.45	-0.32	42.22
8,000.0	0.11	35.27	7,998.2	-15.2	70.8	72.2	0.23	-0.20	-38.58
8,100.0	0.36	22.61	8,098.2	-14.8	71.0	72.2	0.25	0.25	-12.66
8,200.0	0.17	178.41	8,198.2	-14.7	71.1	72.3	0.52	-0.19	155.80
8,300.0	0.34	170.09	8,298.2	-15.1	71.2	72.5	0.17	0.17	-8.32
8,400.0	0.35	170.32	8,398.2	-15.7	71.3	72.8	0.01	0.01	0.23
8,500.0	0.41	331.14	8,498.2	-15.7	71.1	72.6	0.75	0.06	160.82
8,600.0	0.93	110.83	8,598.2	-15.7	71.7	73.2	1.27	0.52	139.69
8,700.0	0.35	154.12	8,698.2	-16.3	72.6	74.2	0.72	-0.58	43.29
8,800.0	0.30	315.91	8,798.2	-16.3	72.6	74.2	0.64	-0.05	161.79
8,900.0	0.46	30.60	8,898.2	-15.8	72.6	74.1	0.48	0.16	74.69
9,000.0	0.51	165.62	8,998.2	-15.9	72.9	74.4	0.90	0.05	135.02
9,100.0	0.75	188.78	9,098.2	-17.0	72.9	74.7	0.35	0.24	23.16
9,200.0	1.92	200.40	9,198.1	-19.2	72.2	74.7	1.19	1.17	11.62
9,300.0	2.63	238.03	9,298.1	-22.0	69.7	73.1	1.61	0.71	37.63



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2NC Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3753+27 @ 3780.0usft (Patterson #231)
Site:	Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com	MD Reference:	GL 3753+27 @ 3780.0usft (Patterson #231)
Well:	Bilbrey 34-27 B2NC Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	3.14	207.10	9,397.9	-25.6	66.5	71.1	1.61	0.51	-30.93
9,500.0	4.09	215.17	9,497.7	-31.0	63.2	69.5	1.08	0.95	8.07
9,600.0	4.48	222.35	9,597.5	-36.8	58.5	66.7	0.66	0.39	7.18
9,700.0	3.04	214.92	9,697.2	-41.8	54.4	64.1	1.52	-1.44	-7.43
9,800.0	1.76	180.29	9,797.1	-45.6	52.8	63.8	1.88	-1.28	-34.63
9,900.0	1.20	160.42	9,897.1	-48.1	53.2	64.8	0.75	-0.56	-19.87
10,000.0	1.70	116.13	9,997.1	-49.7	54.9	66.9	1.19	0.50	-44.29
10000' MD Gyro Tie-In									
10,150.0	1.50	161.60	10,147.0	-52.6	57.5	70.2	0.83	-0.13	30.31
10,182.0	0.40	208.60	10,179.0	-53.1	57.6	70.4	3.94	-3.44	146.88
10,214.0	4.00	285.70	10,211.0	-52.8	56.4	69.3	12.28	11.25	240.94
10,245.0	8.80	286.50	10,241.8	-51.9	53.1	65.8	15.49	15.48	2.58
10,277.0	13.70	297.70	10,273.2	-49.4	47.4	59.7	16.70	15.31	35.00
10,309.0	18.50	300.70	10,303.9	-45.1	39.7	51.0	15.22	15.00	9.38
10,340.0	21.40	299.50	10,333.1	-39.8	30.5	40.7	9.45	9.35	-3.87
10,372.0	24.00	299.90	10,362.6	-33.7	19.8	28.7	8.14	8.13	1.25
10,403.0	24.30	309.50	10,390.9	-26.4	9.4	16.7	12.69	0.97	30.97
10,435.0	26.80	316.50	10,419.7	-17.0	-0.6	4.3	12.24	7.81	21.88
10,466.0	31.20	320.10	10,446.9	-5.8	-10.6	-8.5	15.26	14.19	11.61
10,498.0	35.60	324.50	10,473.6	8.2	-21.3	-22.8	15.69	13.75	13.75
10,530.0	38.70	331.30	10,499.1	24.5	-31.5	-37.3	16.07	9.69	21.25
10,562.0	41.80	339.00	10,523.5	43.3	-40.2	-51.0	18.30	9.69	24.06
10,594.0	44.80	345.20	10,546.8	64.1	-46.9	-63.4	16.25	9.38	19.38
10,626.0	46.90	350.10	10,569.1	86.6	-51.8	-74.6	12.79	6.56	15.31
10,658.0	48.90	352.70	10,590.6	110.0	-55.3	-84.8	8.68	6.25	8.13
10,690.0	50.20	355.90	10,611.3	134.3	-57.7	-94.1	8.63	4.06	10.00
10,721.0	52.40	359.50	10,630.7	158.4	-58.7	-102.0	11.51	7.10	11.61
10,753.0	56.60	3.90	10,649.3	184.5	-57.9	-108.7	17.25	13.13	13.75
10,784.0	59.50	5.80	10,665.7	210.7	-55.7	-114.2	10.70	9.35	6.13
10,816.0	62.50	6.00	10,681.2	238.5	-52.8	-119.5	9.39	9.38	0.63
10,848.0	65.50	5.80	10,695.2	267.1	-49.8	-124.9	9.39	9.38	-0.63
10,879.0	67.10	6.30	10,707.7	295.3	-46.8	-130.2	5.37	5.16	1.61
10,911.0	67.80	6.70	10,720.0	324.7	-43.5	-135.5	2.47	2.19	1.25
10,943.0	70.20	6.00	10,731.4	354.4	-40.2	-140.9	7.77	7.50	-2.19
10,974.0	74.70	5.50	10,740.8	383.8	-37.2	-146.5	14.60	14.52	-1.61
11,006.0	78.90	5.00	10,748.1	414.8	-34.4	-152.8	13.21	13.13	-1.56
11,038.0	82.90	4.80	10,753.1	446.3	-31.7	-159.3	12.52	12.50	-0.63
11,070.0	86.00	5.00	10,756.2	478.0	-29.0	-165.9	9.71	9.69	0.63
11,077.0	86.60	4.90	10,756.7	485.0	-28.4	-167.3	8.69	8.57	-1.43
11,194.0	90.90	4.30	10,759.2	601.5	-19.0	-192.0	3.71	3.68	-0.51
11,289.0	92.40	4.80	10,756.5	696.2	-11.4	-212.1	1.66	1.58	0.53
11,384.0	89.80	4.50	10,754.7	790.8	-3.7	-232.1	2.75	-2.74	-0.32



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bilbrey 34-27 B2NC Federal Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3753+27 @ 3780.0usft (Patterson #231)
Site:	Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com	MD Reference:	GL 3753+27 @ 3780.0usft (Patterson #231)
Well:	Bilbrey 34-27 B2NC Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,479.0	89.90	1.40	10,754.9	885.7	1.1	-254.9	3.26	0.11	-3.26
11,574.0	90.70	1.70	10,754.4	980.7	3.7	-279.8	0.90	0.84	0.32
11,669.0	90.50	2.10	10,753.4	1,075.6	6.9	-304.3	0.47	-0.21	0.42
11,764.0	90.50	2.30	10,752.6	1,170.5	10.5	-328.2	0.21	0.00	0.21
11,858.0	91.10	359.20	10,751.3	1,264.5	11.7	-354.2	3.36	0.64	-3.30
11,953.0	90.50	359.00	10,750.0	1,359.5	10.2	-383.1	0.67	-0.63	-0.21
12,048.0	90.30	359.40	10,749.3	1,454.5	8.9	-411.8	0.47	-0.21	0.42
12,143.0	91.30	0.30	10,748.0	1,549.5	8.7	-439.5	1.42	1.05	0.95
12,238.0	92.00	1.60	10,745.2	1,644.4	10.2	-465.4	1.55	0.74	1.37
12,334.0	91.00	1.10	10,742.7	1,740.4	12.5	-491.0	1.16	-1.04	-0.52
12,429.0	93.10	2.00	10,739.3	1,835.3	15.1	-515.9	2.40	2.21	0.95
12,524.0	92.10	0.10	10,735.0	1,930.1	16.8	-541.7	2.26	-1.05	-2.00
12,620.0	89.40	359.60	10,733.8	2,026.1	16.6	-569.7	2.86	-2.81	-0.52
12,715.0	88.70	0.01	10,735.3	2,121.1	16.2	-597.4	0.85	-0.74	0.43
12,810.0	89.50	0.70	10,736.8	2,216.1	16.8	-624.3	1.12	0.84	0.73
12,904.0	90.00	1.20	10,737.2	2,310.1	18.4	-650.0	0.75	0.53	0.53
12,999.0	91.30	1.90	10,736.2	2,405.0	20.9	-675.0	1.55	1.37	0.74
13,093.0	91.00	359.80	10,734.3	2,499.0	22.3	-700.8	2.26	-0.32	-2.23
13,188.0	91.40	0.01	10,732.3	2,594.0	22.2	-728.4	0.48	0.42	0.22
13,283.0	89.80	0.40	10,731.3	2,689.0	22.5	-755.5	1.73	-1.68	0.41
13,377.0	90.00	0.20	10,731.5	2,783.0	23.0	-782.2	0.30	0.21	-0.21
13,472.0	90.70	0.40	10,730.9	2,878.0	23.5	-809.2	0.77	0.74	0.21
13,566.0	91.80	0.50	10,728.8	2,971.9	24.2	-835.6	1.18	1.17	0.11
13,660.0	91.20	0.10	10,726.4	3,065.9	24.7	-862.3	0.77	-0.64	-0.43
13,755.0	91.30	358.90	10,724.3	3,160.9	23.9	-890.6	1.27	0.11	-1.26
13,850.0	90.30	0.20	10,723.0	3,255.9	23.2	-918.7	1.73	-1.05	1.37
13,944.0	92.20	1.20	10,720.9	3,349.8	24.3	-944.8	2.28	2.02	1.06
14,039.0	91.50	2.30	10,717.9	3,444.7	27.2	-969.4	1.37	-0.74	1.16
14,134.0	89.10	1.70	10,717.4	3,539.7	30.5	-993.7	2.60	-2.53	-0.63
14,229.0	88.00	2.50	10,719.8	3,634.6	34.0	-1,017.8	1.43	-1.16	0.84
14,324.0	88.40	3.40	10,722.7	3,729.4	38.9	-1,040.5	1.04	0.42	0.95
14,419.0	88.20	2.00	10,725.6	3,824.2	43.4	-1,063.6	1.49	-0.21	-1.47
14,513.0	90.20	0.20	10,726.9	3,918.2	45.2	-1,089.1	2.86	2.13	-1.91
14,609.0	90.60	1.10	10,726.2	4,014.2	46.3	-1,115.8	1.03	0.42	0.94
14,703.0	91.30	1.10	10,724.6	4,108.2	48.1	-1,141.2	0.74	0.74	0.00
14,798.0	91.40	0.20	10,722.4	4,203.1	49.1	-1,167.6	0.95	0.11	-0.95
14,893.0	90.70	359.40	10,720.7	4,298.1	48.8	-1,195.4	1.12	-0.74	-0.84
14,987.0	91.30	358.60	10,719.0	4,392.1	47.2	-1,224.1	1.06	0.64	-0.85
15,082.0	90.50	358.70	10,717.5	4,487.0	44.9	-1,253.7	0.85	-0.84	0.11
15,177.0	89.00	358.80	10,718.0	4,582.0	42.9	-1,283.1	1.58	-1.58	0.11
15,272.0	89.80	359.20	10,718.9	4,677.0	41.2	-1,312.1	0.94	0.84	0.42
15,366.0	90.50	0.20	10,718.7	4,771.0	40.7	-1,339.8	1.30	0.74	1.06
15,461.0	91.00	1.20	10,717.5	4,866.0	41.9	-1,366.1	1.18	0.53	1.05



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,556.0	92.60	0.10	10,714.5	4,960.9	42.9	-1,392.5	2.04	1.68	-1.16
15,651.0	91.90	0.80	10,710.7	5,055.8	43.7	-1,419.2	1.04	-0.74	0.74
15,746.0	90.70	1.60	10,708.6	5,150.8	45.7	-1,444.8	1.52	-1.26	0.84
15,841.0	88.70	359.60	10,709.1	5,245.8	46.7	-1,471.3	2.98	-2.11	-2.11
15,938.0	89.60	1.00	10,710.5	5,342.8	47.2	-1,498.8	1.72	0.93	1.44
16,033.0	89.40	1.20	10,711.4	5,437.7	49.0	-1,524.5	0.30	-0.21	0.21
16,127.0	88.90	359.40	10,712.7	5,531.7	49.5	-1,551.2	1.99	-0.53	-1.91
16,221.0	90.00	0.60	10,713.6	5,625.7	49.5	-1,578.4	1.73	1.17	1.28
16,315.0	90.50	359.20	10,713.2	5,719.7	49.3	-1,605.7	1.58	0.53	-1.49
16,409.0	90.90	359.60	10,712.1	5,813.7	48.4	-1,633.8	0.60	0.43	0.43
16,503.0	91.70	0.20	10,710.0	5,907.7	48.2	-1,661.1	1.06	0.85	0.64
16,597.0	90.60	0.60	10,708.1	6,001.6	48.8	-1,687.6	1.25	-1.17	0.43
16,691.0	90.10	1.70	10,707.5	6,095.6	50.7	-1,713.0	1.29	-0.53	1.17
16,785.0	89.80	2.40	10,707.6	6,189.6	54.1	-1,736.9	0.81	-0.32	0.74
16,879.0	88.60	358.70	10,708.9	6,283.5	55.0	-1,763.2	4.14	-1.28	-3.94
16,973.0	89.40	357.20	10,710.5	6,377.5	51.6	-1,793.6	1.81	0.85	-1.60
17,067.0	90.30	358.30	10,710.8	6,471.4	47.9	-1,824.2	1.51	0.96	1.17
17,161.0	90.60	359.10	10,710.0	6,565.4	45.8	-1,853.4	0.91	0.32	0.85
17,255.0	90.70	359.70	10,709.0	6,659.3	44.8	-1,881.5	0.65	0.11	0.64
17,349.0	90.60	0.30	10,707.9	6,753.3	44.8	-1,908.7	0.65	-0.11	0.64
17,473.0	90.20	358.70	10,707.0	6,877.3	43.7	-1,945.6	1.33	-0.32	-1.29
17,567.0	91.70	359.20	10,705.5	6,971.3	42.0	-1,974.4	1.68	1.60	0.53
17,661.0	92.50	359.10	10,702.0	7,065.2	40.6	-2,002.8	0.86	0.85	-0.11
17,755.0	91.80	358.70	10,698.5	7,159.1	38.8	-2,031.7	0.86	-0.74	-0.43
17,849.0	90.10	359.40	10,697.0	7,253.1	37.3	-2,060.4	1.96	-1.81	0.74
17,943.0	91.30	359.50	10,695.8	7,347.1	36.4	-2,088.4	1.28	1.28	0.11
18,038.0	89.40	359.70	10,695.2	7,442.1	35.7	-2,116.5	2.01	-2.00	0.21
18,131.0	89.80	0.01	10,695.9	7,535.1	35.5	-2,143.6	0.54	0.43	0.33
18,226.0	90.30	0.30	10,695.8	7,630.1	35.7	-2,170.8	0.61	0.53	0.31
18,320.0	90.90	0.50	10,694.8	7,724.1	36.4	-2,197.3	0.67	0.64	0.21
18,414.0	89.70	359.60	10,694.3	7,818.1	36.5	-2,224.4	1.60	-1.28	-0.96
18,508.0	90.50	0.10	10,694.2	7,912.1	36.2	-2,251.8	1.00	0.85	0.53
18,602.0	88.70	359.70	10,694.8	8,006.1	36.0	-2,279.1	1.96	-1.91	-0.43
18,696.0	89.60	0.10	10,696.2	8,100.0	35.9	-2,306.4	1.05	0.96	0.43
18,790.0	90.40	0.20	10,696.2	8,194.0	36.1	-2,333.4	0.86	0.85	0.11
18,884.0	92.20	1.10	10,694.1	8,288.0	37.2	-2,359.5	2.14	1.91	0.96
18,978.0	90.60	359.60	10,691.8	8,382.0	37.8	-2,386.1	2.33	-1.70	-1.60
19,072.0	88.50	359.00	10,692.5	8,476.0	36.6	-2,414.4	2.32	-2.23	-0.64
19,166.0	89.80	359.60	10,693.9	8,569.9	35.5	-2,442.6	1.52	1.38	0.64
19,259.0	89.40	359.10	10,694.6	8,662.9	34.4	-2,470.5	0.69	-0.43	-0.54
19,354.0	87.60	357.70	10,697.0	8,757.9	31.8	-2,500.5	2.40	-1.89	-1.47
19,448.0	89.90	357.30	10,699.1	8,851.7	27.7	-2,531.5	2.48	2.45	-0.43



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
19,541.0	92.70	358.00	10,697.0	8,944.6	23.9	-2,562.0	3.10	3.01	0.75
19,635.0	92.40	358.70	10,692.8	9,038.5	21.1	-2,591.7	0.81	-0.32	0.74
19,729.0	91.50	358.00	10,689.6	9,132.4	18.4	-2,621.5	1.21	-0.96	-0.74
19,823.0	90.90	358.70	10,687.6	9,226.3	15.7	-2,651.2	0.98	-0.64	0.74
19,917.0	90.90	359.60	10,686.2	9,320.3	14.3	-2,679.7	0.96	0.00	0.96
20,011.0	91.40	0.10	10,684.3	9,414.3	14.1	-2,707.1	0.75	0.53	0.53
20,105.0	88.90	0.50	10,684.0	9,508.3	14.6	-2,733.8	2.69	-2.66	0.43
20,199.0	90.00	1.20	10,684.9	9,602.3	16.0	-2,759.6	1.39	1.17	0.74
20,293.0	87.10	1.60	10,687.3	9,696.2	18.3	-2,784.5	3.11	-3.09	0.43
20,387.0	89.10	2.40	10,690.4	9,790.1	21.6	-2,808.5	2.29	2.13	0.85
20,481.0	89.70	3.00	10,691.4	9,884.0	26.0	-2,831.4	0.90	0.64	0.64
20,575.0	90.70	4.00	10,691.1	9,977.8	31.7	-2,853.1	1.50	1.06	1.06
20,602.0	91.10	4.30	10,690.7	10,004.7	33.7	-2,859.0	1.85	1.48	1.11
20,650.0	91.10	4.30	10,689.7	10,052.6	37.3	-2,869.3	0.00	0.00	0.00

20650' MD Projected to Bit

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
10,000.0	9,997.1	-49.7	54.9	10000' MD Gyro Tie-In
20,650.0	10,689.7	10,052.6	37.3	20650' MD Projected to Bit



October 27, 2016

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

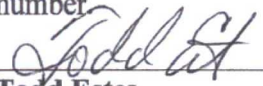
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Bilbrey 34 27 B2NC Federal Com #001H
Bilbrey Basin; Bone Spring
Lea County, New Mexico
API# 30-025-43276

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>
Keith Broussard	Original Hole	10,150ft. to 20,602ft.	09-18-16 to 10-07-16	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Bilbrey 34-27 B2NC Federal Com #1H\161065

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



October 27, 2016

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of September 18, 2016, through October 07, 2016 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 10,150 feet to a depth of 20,602 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 B2NC Federal Com #001H well, API # **30-025-43276** 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.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163

Bilbrey 34-27 B2NC Federal Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC F
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Lea County N.M.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 34-27 T21S-R32E Bilbrey 34-27 B2NC Fed Com		
Site Position:		Northing:	520,199.70 usft
From:	Map	Easting:	706,486.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 25' 42.113 N
		Longitude:	103° 39' 50.809 W
		Grid Convergence:	0.36 °

Well	Bilbrey 34-27 B2NC Federal Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			0.0 usft
			Latitude:
			32° 25' 42.113 N
			Longitude:
			103° 39' 50.809 W
			Ground Level:
			3,753.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/7/2016	7.10	60.25	48,127.31818706

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	106.80

Bilbrey 34-27 B2NC Federal Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC F
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program		Date 10/7/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	10,000.0	Phoenix Tech Survey Gyro (Original Hole)	GyroFlex		
10,150.0	20,650.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
10,000.0	1.70	116.13	9,997.1	-49.7	54.9	66.9	74.0	132.18	0.00
10,150.0	1.50	161.60	10,147.0	-52.6	57.5	70.2	77.9	132.44	0.83
10,182.0	0.40	208.60	10,179.0	-53.1	57.6	70.4	78.3	132.66	3.94
10,214.0	4.00	285.70	10,211.0	-52.8	56.4	69.3	77.3	133.12	12.28
10,245.0	8.80	286.50	10,241.8	-51.9	53.1	65.8	74.3	134.32	15.49
10,277.0	13.70	297.70	10,273.2	-49.4	47.4	59.7	68.5	136.19	16.70
10,309.0	18.50	300.70	10,303.9	-45.1	39.7	51.0	60.1	138.63	15.22
10,340.0	21.40	299.50	10,333.1	-39.8	30.5	40.7	50.1	142.48	9.45
10,372.0	24.00	299.90	10,362.6	-33.7	19.8	28.7	39.0	149.51	8.14
10,403.0	24.30	309.50	10,390.9	-26.4	9.4	16.7	28.1	160.40	12.69
10,435.0	26.80	316.50	10,419.7	-17.0	-0.6	4.3	17.0	182.12	12.24
10,466.0	31.20	320.10	10,446.9	-5.8	-10.6	-8.5	12.1	241.36	15.26
10,498.0	35.60	324.50	10,473.6	8.2	-21.3	-22.8	22.8	290.94	15.69
10,530.0	38.70	331.30	10,499.1	24.5	-31.5	-37.3	40.0	307.87	16.07
10,562.0	41.80	339.00	10,523.5	43.3	-40.2	-51.0	59.1	317.12	18.30
10,594.0	44.80	345.20	10,546.8	64.1	-46.9	-63.4	79.5	323.84	16.25
10,626.0	46.90	350.10	10,569.1	86.6	-51.8	-74.6	100.9	329.11	12.79
10,658.0	48.90	352.70	10,590.6	110.0	-55.3	-84.8	123.2	333.31	8.68
10,690.0	50.20	355.90	10,611.3	134.3	-57.7	-94.1	146.2	336.73	8.63
10,721.0	52.40	359.50	10,630.7	158.4	-58.7	-102.0	169.0	339.67	11.51
10,753.0	56.60	3.90	10,649.3	184.5	-57.9	-108.7	193.3	342.58	17.25

Bilbrey 34-27 B2NC Federal Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC F
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
10,784.0	59.50	5.80	10,665.7	210.7	-55.7	-114.2	217.9	345.20	10.70
10,816.0	62.50	6.00	10,681.2	238.5	-52.8	-119.5	244.3	347.52	9.39
10,848.0	65.50	5.80	10,695.2	267.1	-49.8	-124.9	271.7	349.43	9.39
10,879.0	67.10	6.30	10,707.7	295.3	-46.8	-130.2	299.0	350.99	5.37
10,911.0	67.80	6.70	10,720.0	324.7	-43.5	-135.5	327.6	352.37	2.47
10,943.0	70.20	6.00	10,731.4	354.4	-40.2	-140.9	356.7	353.53	7.77
10,974.0	74.70	5.50	10,740.8	383.8	-37.2	-146.5	385.6	354.46	14.60
11,006.0	78.90	5.00	10,748.1	414.8	-34.4	-152.8	416.2	355.26	13.21
11,038.0	82.90	4.80	10,753.1	446.3	-31.7	-159.3	447.4	355.94	12.52
11,070.0	86.00	5.00	10,756.2	478.0	-29.0	-165.9	478.9	356.53	9.71
11,077.0	86.60	4.90	10,756.7	485.0	-28.4	-167.3	485.8	356.65	8.69
11,194.0	90.90	4.30	10,759.2	601.5	-19.0	-192.0	601.8	358.19	3.71
11,289.0	92.40	4.80	10,756.5	696.2	-11.4	-212.1	696.3	359.06	1.66
11,384.0	89.80	4.50	10,754.7	790.8	-3.7	-232.1	790.9	359.73	2.75
11,479.0	89.90	1.40	10,754.9	885.7	1.1	-254.9	885.7	0.07	3.26
11,574.0	90.70	1.70	10,754.4	980.7	3.7	-279.8	980.7	0.22	0.90
11,669.0	90.50	2.10	10,753.4	1,075.6	6.9	-304.3	1,075.6	0.37	0.47
11,764.0	90.50	2.30	10,752.6	1,170.5	10.5	-328.2	1,170.6	0.51	0.21
11,858.0	91.10	359.20	10,751.3	1,264.5	11.7	-354.2	1,264.6	0.53	3.36
11,953.0	90.50	359.00	10,750.0	1,359.5	10.2	-383.1	1,359.5	0.43	0.67
12,048.0	90.30	359.40	10,749.3	1,454.5	8.9	-411.8	1,454.5	0.35	0.47
12,143.0	91.30	0.30	10,748.0	1,549.5	8.7	-439.5	1,549.5	0.32	1.42
12,238.0	92.00	1.60	10,745.2	1,644.4	10.2	-465.4	1,644.4	0.36	1.55
12,334.0	91.00	1.10	10,742.7	1,740.4	12.5	-491.0	1,740.4	0.41	1.16
12,429.0	93.10	2.00	10,739.3	1,835.3	15.1	-515.9	1,835.3	0.47	2.40
12,524.0	92.10	0.10	10,735.0	1,930.1	16.8	-541.7	1,930.2	0.50	2.26
12,620.0	89.40	359.60	10,733.8	2,026.1	16.6	-569.7	2,026.2	0.47	2.86

Bilbrey 34-27 B2NC Federal Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC F
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
12,715.0	88.70	0.00	10,735.3	2,121.1	16.2	-597.4	2,121.2	0.44	0.85
12,810.0	89.50	0.70	10,736.8	2,216.1	16.8	-624.3	2,216.1	0.43	1.12
12,904.0	90.00	1.20	10,737.2	2,310.1	18.4	-650.0	2,310.1	0.46	0.75
12,999.0	91.30	1.90	10,736.2	2,405.0	20.9	-675.0	2,405.1	0.50	1.55
13,093.0	91.00	359.80	10,734.3	2,499.0	22.3	-700.8	2,499.1	0.51	2.26
13,188.0	91.40	0.01	10,732.3	2,594.0	22.2	-728.4	2,594.1	0.49	0.48
13,283.0	89.80	0.40	10,731.3	2,689.0	22.5	-755.5	2,689.1	0.48	1.73
13,377.0	90.00	0.20	10,731.5	2,783.0	23.0	-782.2	2,783.1	0.47	0.30
13,472.0	90.70	0.40	10,730.9	2,878.0	23.5	-809.2	2,878.1	0.47	0.77
13,566.0	91.80	0.50	10,728.8	2,971.9	24.2	-835.6	2,972.0	0.47	1.18
13,660.0	91.20	0.10	10,726.4	3,065.9	24.7	-862.3	3,066.0	0.46	0.77
13,755.0	91.30	358.90	10,724.3	3,160.9	23.9	-890.6	3,161.0	0.43	1.27
13,850.0	90.30	0.20	10,723.0	3,255.9	23.2	-918.7	3,255.9	0.41	1.73
13,944.0	92.20	1.20	10,720.9	3,349.8	24.3	-944.8	3,349.9	0.42	2.28
14,039.0	91.50	2.30	10,717.9	3,444.7	27.2	-969.4	3,444.8	0.45	1.37
14,134.0	89.10	1.70	10,717.4	3,539.7	30.5	-993.7	3,539.8	0.49	2.60
14,229.0	88.00	2.50	10,719.8	3,634.6	34.0	-1,017.8	3,634.7	0.54	1.43
14,324.0	88.40	3.40	10,722.7	3,729.4	38.9	-1,040.5	3,729.6	0.60	1.04
14,419.0	88.20	2.00	10,725.6	3,824.2	43.4	-1,063.6	3,824.5	0.65	1.49
14,513.0	90.20	0.20	10,726.9	3,918.2	45.2	-1,089.1	3,918.5	0.66	2.86
14,609.0	90.60	1.10	10,726.2	4,014.2	46.3	-1,115.8	4,014.5	0.66	1.03
14,703.0	91.30	1.10	10,724.6	4,108.2	48.1	-1,141.2	4,108.4	0.67	0.74
14,798.0	91.40	0.20	10,722.4	4,203.1	49.1	-1,167.6	4,203.4	0.67	0.95
14,893.0	90.70	359.40	10,720.7	4,298.1	48.8	-1,195.4	4,298.4	0.65	1.12
14,987.0	91.30	358.60	10,719.0	4,392.1	47.2	-1,224.1	4,392.3	0.62	1.06
15,082.0	90.50	358.70	10,717.5	4,487.0	44.9	-1,253.7	4,487.3	0.57	0.85
15,177.0	89.00	358.80	10,718.0	4,582.0	42.9	-1,283.1	4,582.2	0.54	1.58

Bilbrey 34-27 B2NC Federal Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC F
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
15,272.0	89.80	359.20	10,718.9	4,677.0	41.2	-1,312.1	4,677.2	0.50	0.94
15,366.0	90.50	0.20	10,718.7	4,771.0	40.7	-1,339.8	4,771.2	0.49	1.30
15,461.0	91.00	1.20	10,717.5	4,866.0	41.9	-1,366.1	4,866.2	0.49	1.18
15,556.0	92.60	0.10	10,714.5	4,960.9	42.9	-1,392.5	4,961.1	0.50	2.04
15,651.0	91.90	0.80	10,710.7	5,055.8	43.7	-1,419.2	5,056.0	0.50	1.04
15,746.0	90.70	1.60	10,708.6	5,150.8	45.7	-1,444.8	5,151.0	0.51	1.52
15,841.0	88.70	359.60	10,709.1	5,245.8	46.7	-1,471.3	5,246.0	0.51	2.98
15,938.0	89.60	1.00	10,710.5	5,342.8	47.2	-1,498.8	5,343.0	0.51	1.72
16,033.0	89.40	1.20	10,711.4	5,437.7	49.0	-1,524.5	5,438.0	0.52	0.30
16,127.0	88.90	359.40	10,712.7	5,531.7	49.5	-1,551.2	5,531.9	0.51	1.99
16,221.0	90.00	0.60	10,713.6	5,625.7	49.5	-1,578.4	5,625.9	0.50	1.73
16,315.0	90.50	359.20	10,713.2	5,719.7	49.3	-1,605.7	5,719.9	0.49	1.58
16,409.0	90.90	359.60	10,712.1	5,813.7	48.4	-1,633.8	5,813.9	0.48	0.60
16,503.0	91.70	0.20	10,710.0	5,907.7	48.2	-1,661.1	5,907.9	0.47	1.06
16,597.0	90.60	0.60	10,708.1	6,001.6	48.8	-1,687.6	6,001.8	0.47	1.25
16,691.0	90.10	1.70	10,707.5	6,095.6	50.7	-1,713.0	6,095.8	0.48	1.29
16,785.0	89.80	2.40	10,707.6	6,189.6	54.1	-1,736.9	6,189.8	0.50	0.81
16,879.0	88.60	358.70	10,708.9	6,283.5	55.0	-1,763.2	6,283.8	0.50	4.14
16,973.0	89.40	357.20	10,710.5	6,377.5	51.6	-1,793.6	6,377.7	0.46	1.81
17,067.0	90.30	358.30	10,710.8	6,471.4	47.9	-1,824.2	6,471.6	0.42	1.51
17,161.0	90.60	359.10	10,710.0	6,565.4	45.8	-1,853.4	6,565.5	0.40	0.91
17,255.0	90.70	359.70	10,709.0	6,659.3	44.8	-1,881.5	6,659.5	0.39	0.65
17,349.0	90.60	0.30	10,707.9	6,753.3	44.8	-1,908.7	6,753.5	0.38	0.65
17,473.0	90.20	358.70	10,707.0	6,877.3	43.7	-1,945.6	6,877.5	0.36	1.33
17,567.0	91.70	359.20	10,705.5	6,971.3	42.0	-1,974.4	6,971.4	0.35	1.68
17,661.0	92.50	359.10	10,702.0	7,065.2	40.6	-2,002.8	7,065.3	0.33	0.86
17,755.0	91.80	358.70	10,698.5	7,159.1	38.8	-2,031.7	7,159.2	0.31	0.86

Bilbrey 34-27 B2NC Federal Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC F
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
17,849.0	90.10	359.40	10,697.0	7,253.1	37.3	-2,060.4	7,253.2	0.29	1.96
17,943.0	91.30	359.50	10,695.8	7,347.1	36.4	-2,088.4	7,347.2	0.28	1.28
18,038.0	89.40	359.70	10,695.2	7,442.1	35.7	-2,116.5	7,442.2	0.27	2.01
18,131.0	89.80	0.00	10,695.9	7,535.1	35.5	-2,143.6	7,535.2	0.27	0.54
18,226.0	90.30	0.30	10,695.8	7,630.1	35.7	-2,170.8	7,630.2	0.27	0.61
18,320.0	90.90	0.50	10,694.8	7,724.1	36.4	-2,197.3	7,724.2	0.27	0.67
18,414.0	89.70	359.60	10,694.3	7,818.1	36.5	-2,224.4	7,818.2	0.27	1.60
18,508.0	90.50	0.10	10,694.2	7,912.1	36.2	-2,251.8	7,912.1	0.26	1.00
18,602.0	88.70	359.70	10,694.8	8,006.1	36.0	-2,279.1	8,006.1	0.26	1.96
18,696.0	89.60	0.10	10,696.2	8,100.0	35.9	-2,306.4	8,100.1	0.25	1.05
18,790.0	90.40	0.20	10,696.2	8,194.0	36.1	-2,333.4	8,194.1	0.25	0.86
18,884.0	92.20	1.10	10,694.1	8,288.0	37.2	-2,359.5	8,288.1	0.26	2.14
18,978.0	90.60	359.60	10,691.8	8,382.0	37.8	-2,386.1	8,382.1	0.26	2.33
19,072.0	88.50	359.00	10,692.5	8,476.0	36.6	-2,414.4	8,476.0	0.25	2.32
19,166.0	89.80	359.60	10,693.9	8,569.9	35.5	-2,442.6	8,570.0	0.24	1.52
19,259.0	89.40	359.10	10,694.6	8,662.9	34.4	-2,470.5	8,663.0	0.23	0.69
19,354.0	87.60	357.70	10,697.0	8,757.9	31.8	-2,500.5	8,757.9	0.21	2.40
19,448.0	89.90	357.30	10,699.1	8,851.7	27.7	-2,531.5	8,851.8	0.18	2.48
19,541.0	92.70	358.00	10,697.0	8,944.6	23.9	-2,562.0	8,944.7	0.15	3.10
19,635.0	92.40	358.70	10,692.8	9,038.5	21.1	-2,591.7	9,038.5	0.13	0.81
19,729.0	91.50	358.00	10,689.6	9,132.4	18.4	-2,621.5	9,132.4	0.12	1.21
19,823.0	90.90	358.70	10,687.6	9,226.3	15.7	-2,651.2	9,226.3	0.10	0.98
19,917.0	90.90	359.60	10,686.2	9,320.3	14.3	-2,679.7	9,320.3	0.09	0.96
20,011.0	91.40	0.10	10,684.3	9,414.3	14.1	-2,707.1	9,414.3	0.09	0.75
20,105.0	88.90	0.50	10,684.0	9,508.3	14.6	-2,733.8	9,508.3	0.09	2.69
20,199.0	90.00	1.20	10,684.9	9,602.3	16.0	-2,759.6	9,602.3	0.10	1.39
20,293.0	87.10	1.60	10,687.3	9,696.2	18.3	-2,784.5	9,696.2	0.11	3.11

Bilbrey 34-27 B2NC Federal Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 34-27 T21S-R32E Bilbrey 34-27 B2NC F
Well: Bilbrey 34-27 B2NC Federal Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bilbrey 34-27 B2NC Federal Com #1H
TVD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
MD Reference: GL 3753+27 @ 3780.0usft (Patterson #231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
20,387.0	89.10	2.40	10,690.4	9,790.1	21.6	-2,808.5	9,790.1	0.13	2.29
20,481.0	89.70	3.00	10,691.4	9,884.0	26.0	-2,831.4	9,884.0	0.15	0.90
20,575.0	90.70	4.00	10,691.1	9,977.8	31.7	-2,853.1	9,977.8	0.18	1.50
20,602.0	91.10	4.30	10,690.7	10,004.7	33.7	-2,859.0	10,004.8	0.19	1.85
20,650.0	91.10	4.30	10,689.7	10,052.6	37.3	-2,869.3	10,052.6	0.21	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
20,650.0	10,689.7	10,052.6	37.3	20650' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Bilbrey 34-27 B2NC Federal Com #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIC: Patterson #231

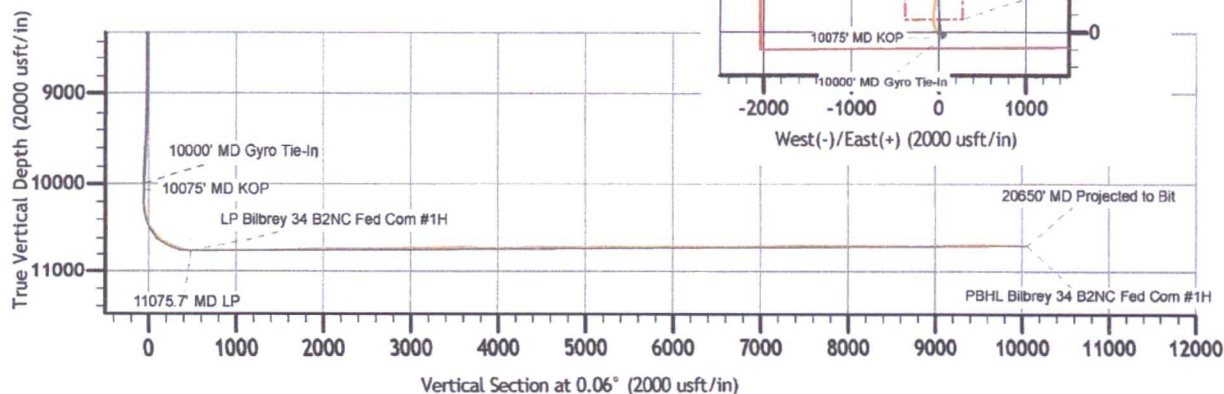
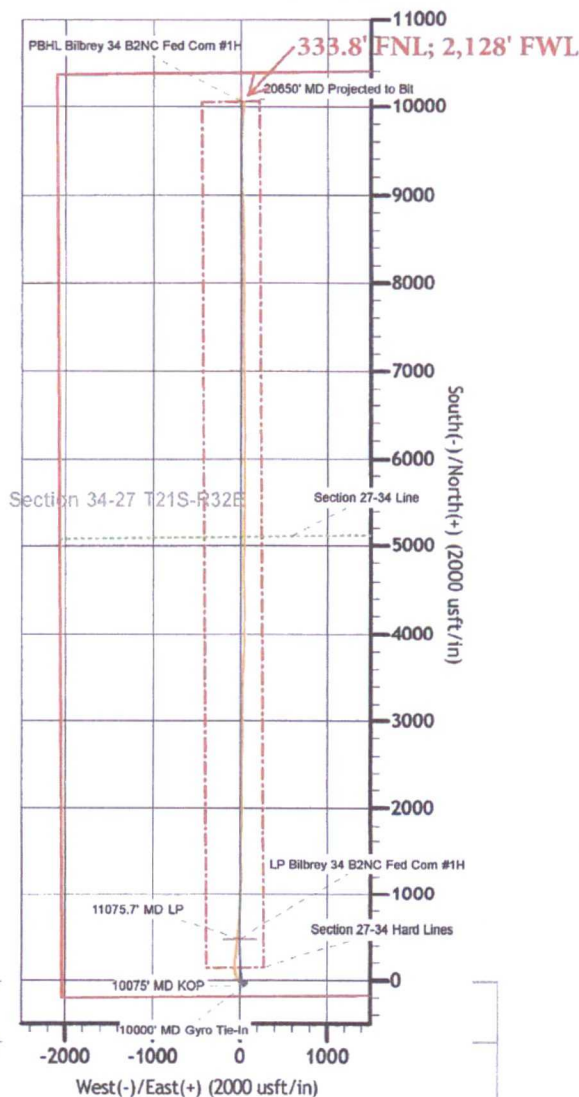
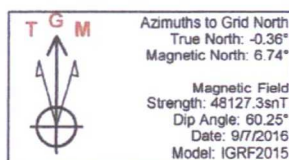


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.74°

GEODETIC ZONE: New Mexico East 3001							Slot
GL 3753+27 @ 3780.0usft (Patterson #231)							
GROUND ELEVATION: 3753.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	520199.70	706486.30	32° 25' 42.113 N	103° 39' 50.809 W		

PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target	
1	10000.0	1.70	116.13	9997.1	-49.7	54.9	0.00	0.00	-49.7		
2	10068.0	0.00	0.00	10065.1	-50.2	55.8	2.50	180.00	-50.1		
3	10075.0	0.00	0.00	10072.1	-50.2	55.8	0.00	0.00	-50.1		
4	10158.6	8.92	213.30	10155.4	-55.6	52.2	10.67	213.30	-55.5		
5	11075.7	90.36	0.06	10760.0	480.5	0.4	10.66	146.41	480.5	LP Bilbrey 34 B2NC Fed Com #1H	
6	20652.1	90.36	0.06	10700.0	10056.7	10.0	0.00	0.00	10056.7	PBHL Bilbrey 34 B2NC Fed Com #1H	

SHL- 185' FSL & 2030' FWL
 Section 34 21S-32E
 PBHL- 330' FNL & 2100' FWL
 Section 27 21S-32E





PHOENIX

TECHNOLOGY SERVICES USA INC.

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

Celebrating 20 Years of Focused Solutions

September 23, 2016

Mewbourne Oil
Attention: Regulatory Department
701 S Cecil St
Hobbs, New Mexico 88240

Re: Mewbourne Oil
Bilbrey 34/27 B2NC Fed Com 1H
Lea County, New Mexico
API #30-025-43276
Job No. 60356

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 1 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Andy Askew	1H	0	10000	09/18/16	09/18/16	Gyro

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

Best Regards,

Claudia Carreon
Operations Administrator

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



PHOENIX
TECHNOLOGY SERVICES

Company: Mewbourne Oil

Job #: 60356

Well Name: Bilbrey 34/27 B2NC Fed Com 1H

County/State: Lea/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43276

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-09-18	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-09-18	10000	1.7	116.13

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.36

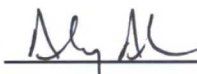
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Jaime Stephenson

To the best of my knowledge I certify this survey data to be correct and true

Date: 9-18-16

Print Name: Andy Askew

Signature: 



Company: Mewbourne Oil
 Well: Bilbrey 34/27 B2NC Fed Com 1H
 Location: Lea Co., NM
 Rig: Patterson 231

Job Number: 60356
 Grid Corr.: -0.36
 Lat: 32.42
 Long: -103.66

Date: 09-18-16
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 26.5
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.66	138.73	100	100.00	-0.43	0.43 S	0.38 E	0.58	138.73	0.66	0.66	138.73
	200.00	0.25	137.57	100	199.99	-1.03	1.03 S	0.91 E	1.37	138.55	0.41	-0.41	-1.16
	300.00	0.54	250.51	100	299.99	-1.35	1.35 S	0.61 E	1.48	155.61	0.68	0.29	112.94
	400.00	0.05	247.25	100	399.99	-1.52	1.52 S	0.13 E	1.52	175.28	0.49	-0.49	-3.26
	500.00	0.63	239.23	100	499.99	-1.82	1.82 S	0.39 W	1.86	192.03	0.58	0.58	-8.02
	600.00	0.78	222.29	100	599.98	-2.60	2.60 S	1.32 W	2.92	206.85	0.26	0.15	-16.94
	700.00	0.93	192.50	100	699.97	-3.90	3.90 S	1.95 W	4.36	206.59	0.46	0.15	-29.79
	800.00	1.96	220.93	100	799.94	-5.98	5.98 S	3.25 W	6.81	208.49	1.22	1.03	28.43
	900.00	2.17	218.73	100	899.87	-8.75	8.75 S	5.55 W	10.36	212.39	0.22	0.21	-2.20
	1000.00	1.73	292.94	100	999.83	-9.64	9.64 S	8.13 W	12.61	220.13	2.38	-0.44	74.21
	1100.00	0.77	84.14	100	1099.82	-8.98	8.98 S	8.85 W	12.61	224.57	2.43	-0.96	-208.80
	1200.00	0.88	73.55	100	1199.81	-8.70	8.70 S	7.44 W	11.45	220.56	0.19	0.11	-10.59
	1300.00	1.01	82.84	100	1299.79	-8.37	8.37 S	5.83 W	10.20	214.87	0.20	0.13	9.29
	1400.00	1.03	101.89	100	1399.78	-8.44	8.44 S	4.08 W	9.38	205.78	0.34	0.02	19.05
	1500.00	0.86	125.01	100	1499.76	-9.06	9.06 S	2.58 W	9.42	195.92	0.41	-0.17	23.12
	1600.00	0.95	142.60	100	1599.75	-10.15	10.15 S	1.47 W	10.26	188.22	0.29	0.09	17.59
	1700.00	0.90	122.05	100	1699.74	-11.22	11.22 S	0.30 W	11.23	181.52	0.33	-0.05	-20.55
	1800.00	1.00	113.48	100	1799.73	-11.99	11.99 S	1.17 E	12.05	174.43	0.17	0.10	-8.57
	1900.00	0.74	89.51	100	1899.71	-12.33	12.33 S	2.61 E	12.61	168.03	0.44	-0.26	-23.97
	2000.00	0.93	122.73	100	1999.70	-12.76	12.76 S	3.94 E	13.36	162.83	0.51	0.19	33.22
	2100.00	0.96	140.06	100	2099.69	-13.85	13.85 S	5.16 E	14.78	159.55	0.29	0.03	17.33
	2200.00	1.20	109.94	100	2199.67	-14.85	14.85 S	6.69 E	16.28	155.75	0.61	0.24	-30.12
	2300.00	1.76	97.24	100	2299.64	-15.40	15.40 S	9.19 E	17.93	149.16	0.65	0.56	-12.70
	2400.00	2.31	95.13	100	2399.58	-15.77	15.77 S	12.72 E	20.26	141.10	0.55	0.55	-2.11
	2500.00	2.58	88.52	100	2499.49	-15.89	15.89 S	16.98 E	23.26	133.10	0.39	0.27	-6.61
	2600.00	0.36	193.50	100	2599.45	-16.14	16.14 S	19.16 E	25.05	130.11	2.70	-2.22	104.98
	2700.00	0.41	158.84	100	2699.45	-16.78	16.78 S	19.21 E	25.51	131.13	0.23	0.05	-34.66



Company: Mewbourne Oil
 Well: Bilbrey 34/27 B2NC Fed Com 1H
 Location: Lea Co., NM
 Rig: Patterson 231

Job Number: 60356
 Grid Corr.: -0.36
 Lat: 32.42
 Long: -103.66

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 26.5
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2800.00	1.42	84.48	100	2799.44	-16.99	16.99 S	20.58 E	26.69	129.55	1.37	1.01	-74.36
	2900.00	2.36	83.90	100	2899.38	-16.65	16.65 S	23.86 E	29.10	124.92	0.94	0.94	-0.58
	3000.00	2.64	102.95	100	2999.29	-16.95	16.95 S	28.15 E	32.86	121.06	0.87	0.28	19.05
	3100.00	1.05	157.14	100	3099.24	-18.31	18.31 S	30.75 E	35.79	120.78	2.20	-1.59	54.19
	3200.00	1.04	147.44	100	3199.22	-19.92	19.92 S	31.59 E	37.35	122.23	0.18	-0.01	-9.70
	3300.00	1.80	143.74	100	3299.19	-21.95	21.95 S	33.01 E	39.64	123.62	0.77	0.76	-3.70
	3400.00	2.68	127.40	100	3399.12	-24.64	24.64 S	35.80 E	43.46	124.54	1.08	0.88	-16.34
	3500.00	1.66	116.70	100	3499.04	-26.71	26.71 S	38.95 E	47.23	124.44	1.09	-1.02	-10.70
	3600.00	1.06	74.04	100	3599.02	-27.11	27.11 S	41.13 E	49.26	123.39	1.14	-0.60	-42.66
	3700.00	2.68	76.85	100	3698.96	-26.32	26.32 S	44.30 E	51.53	120.72	1.62	1.62	2.81
	3800.00	2.70	81.90	100	3798.85	-25.46	25.46 S	48.91 E	55.14	117.50	0.24	0.02	5.05
	3900.00	2.52	92.63	100	3898.75	-25.23	25.23 S	53.44 E	59.09	115.27	0.52	-0.18	10.73
	4000.00	1.75	132.14	100	3998.68	-26.35	26.35 S	56.76 E	62.58	114.90	1.61	-0.77	39.51
	4100.00	1.70	141.15	100	4098.64	-28.53	28.53 S	58.83 E	65.38	115.87	0.28	-0.05	9.01
	4200.00	3.62	103.93	100	4198.53	-30.45	30.45 S	62.82 E	69.81	115.86	2.49	1.92	-37.22
	4300.00	1.80	64.78	100	4298.42	-30.54	30.54 S	67.31 E	73.91	114.40	2.50	-1.82	-39.15
	4400.00	1.91	49.01	100	4398.37	-28.78	28.78 S	69.99 E	75.67	112.35	0.52	0.11	-15.77
	4500.00	0.96	55.76	100	4498.34	-27.21	27.21 S	71.94 E	76.91	110.72	0.96	-0.95	6.75
	4600.00	1.01	70.23	100	4598.32	-26.44	26.44 S	73.46 E	78.07	109.80	0.25	0.05	14.47
	4700.00	1.22	42.14	100	4698.30	-25.35	25.35 S	75.00 E	79.17	108.68	0.58	0.21	-28.09
	4800.00	1.16	40.27	100	4798.28	-23.79	23.79 S	76.37 E	79.99	107.30	0.07	-0.06	-1.87
	4900.00	0.77	317.06	100	4898.27	-22.53	22.53 S	76.57 E	79.81	106.39	1.31	-0.39	276.79
	5000.00	0.55	321.83	100	4998.27	-21.66	21.66 S	75.81 E	78.85	105.94	0.23	-0.22	4.77
	5100.00	0.47	245.06	100	5098.26	-21.45	21.45 S	75.14 E	78.15	105.93	0.64	-0.08	-76.77
	5200.00	0.36	309.00	100	5198.26	-21.43	21.43 S	74.53 E	77.55	106.04	0.45	-0.11	63.94
	5300.00	0.19	107.45	100	5298.26	-21.28	21.28 S	74.44 E	77.42	105.95	0.54	-0.17	-201.55
	5400.00	0.03	298.81	100	5398.26	-21.32	21.32 S	74.58 E	77.56	105.95	0.22	-0.16	191.36
	5500.00	0.04	143.86	100	5498.26	-21.33	21.33 S	74.58 E	77.57	105.96	0.07	0.01	-154.95
	5600.00	0.32	41.78	100	5598.26	-21.15	21.15 S	74.78 E	77.72	105.79	0.33	0.28	-102.08
	5700.00	0.23	235.83	100	5698.26	-21.06	21.06 S	74.80 E	77.71	105.72	0.55	-0.09	194.05



Company: Mewbourne Oil
 Well: Bilbrey 34/27 B2NC Fed Com 1H
 Location: Lea Co., NM
 Rig: Patterson 231

Job Number: 60356
 Grid Corr.: -0.36
 Lat: 32.42
 Long: -103.66

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 26.5
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	5800.00	0.28	270.12	100	5798.26	-21.17	21.17 S	74.39 E	77.35	105.89	0.16	0.05	34.29
	5900.00	0.44	305.63	100	5898.26	-20.95	20.95 S	73.83 E	76.75	105.84	0.27	0.16	35.51
	6000.00	0.83	304.53	100	5998.25	-20.31	20.31 S	72.93 E	75.70	105.56	0.39	0.39	-1.10
	6100.00	0.77	39.79	100	6098.24	-19.39	19.39 S	72.76 E	75.30	104.92	1.18	-0.06	-264.74
	6200.00	0.82	324.49	100	6198.24	-18.29	18.29 S	72.77 E	75.04	104.11	0.97	0.05	284.70
	6300.00	0.69	329.24	100	6298.23	-17.19	17.19 S	72.05 E	74.07	103.42	0.14	-0.13	4.75
	6400.00	0.43	324.43	100	6398.22	-16.36	16.36 S	71.52 E	73.37	102.89	0.26	-0.26	-4.81
	6500.00	0.51	260.15	100	6498.22	-16.13	16.13 S	70.87 E	72.68	102.83	0.50	0.08	-64.28
	6600.00	0.28	158.14	100	6598.22	-16.44	16.44 S	70.52 E	72.41	103.12	0.63	-0.23	-102.01
	6700.00	0.32	203.12	100	6698.22	-16.92	16.92 S	70.50 E	72.50	103.50	0.23	0.04	44.98
	6800.00	0.52	336.54	100	6798.22	-16.76	16.76 S	70.21 E	72.18	103.43	0.78	0.20	133.42
	6900.00	0.44	313.44	100	6898.21	-16.08	16.08 S	69.75 E	71.58	102.98	0.21	-0.08	-23.10
	7000.00	0.56	276.75	100	6998.21	-15.76	15.76 S	68.99 E	70.76	102.87	0.33	0.12	-36.69
	7100.00	0.58	271.82	100	7098.20	-15.69	15.69 S	68.00 E	69.78	102.99	0.05	0.02	-4.93
	7200.00	0.26	192.16	100	7198.20	-15.89	15.89 S	67.44 E	69.29	103.26	0.59	-0.32	-79.66
	7300.00	0.83	102.63	100	7298.20	-16.27	16.27 S	68.10 E	70.02	103.44	0.87	0.57	-89.53
	7400.00	0.53	355.42	100	7398.19	-15.97	15.97 S	68.77 E	70.60	103.07	1.11	-0.30	252.79
	7500.00	0.75	59.72	100	7498.19	-15.18	15.18 S	69.30 E	70.94	102.35	0.71	0.22	-295.70
	7600.00	0.36	190.38	100	7598.19	-15.16	15.16 S	69.81 E	71.43	102.25	1.02	-0.39	130.66
	7700.00	0.52	186.56	100	7698.18	-15.92	15.92 S	69.70 E	71.49	102.86	0.16	0.16	-3.82
	7800.00	0.63	31.63	100	7798.18	-15.90	15.90 S	69.94 E	71.72	102.81	1.12	0.11	-154.93
	7900.00	0.31	73.85	100	7898.18	-15.36	15.36 S	70.48 E	72.14	102.29	0.45	-0.32	42.22
	8000.00	0.11	35.27	100	7998.18	-15.20	15.20 S	70.80 E	72.41	102.12	0.23	-0.20	-38.58
	8100.00	0.36	22.61	100	8098.18	-14.83	14.83 S	70.98 E	72.51	101.81	0.25	0.25	-12.66
	8200.00	0.17	178.41	100	8198.18	-14.69	14.69 S	71.10 E	72.60	101.68	0.52	-0.19	155.80
	8300.00	0.34	170.09	100	8298.17	-15.13	15.13 S	71.16 E	72.75	102.01	0.17	0.17	-8.32
	8400.00	0.35	170.32	100	8398.17	-15.73	15.73 S	71.26 E	72.97	102.45	0.01	0.01	0.23
	8500.00	0.41	331.14	100	8498.17	-15.71	15.71 S	71.14 E	72.85	102.46	0.75	0.06	160.82
	8600.00	0.93	110.83	100	8598.17	-15.69	15.69 S	71.72 E	73.42	102.34	1.27	0.52	-220.31
	8700.00	0.35	154.12	100	8698.16	-16.25	16.25 S	72.61 E	74.41	102.62	0.72	-0.58	43.29



Company: Mewbourne Oil
 Well: Bilbrey 34/27 B2NC Fed Com 1H
 Location: Lea Co., NM
 Rig: Patterson 231

Job Number: 60356
 Grid Corr.: -0.36
 Lat: 32.42
 Long: -103.66

Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 26.5
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	8800.00	0.30	315.91	100	8798.16	-16.34	16.34 S	72.57 E	74.38	102.69	0.64	-0.05	161.79
	8900.00	0.46	30.60	100	8898.16	-15.81	15.81 S	72.59 E	74.29	102.28	0.48	0.16	-285.31
	9000.00	0.51	165.62	100	8998.16	-15.89	15.89 S	72.90 E	74.61	102.30	0.90	0.05	135.02
	9100.00	0.75	188.78	100	9098.15	-16.97	16.97 S	72.91 E	74.86	103.10	0.35	0.24	23.16
	9200.00	1.92	200.40	100	9198.12	-19.19	19.19 S	72.23 E	74.73	104.88	1.19	1.17	11.62
	9300.00	2.63	238.03	100	9298.05	-21.97	21.97 S	69.70 E	73.08	107.50	1.61	0.71	37.63
	9400.00	3.14	207.10	100	9397.93	-25.63	25.63 S	66.50 E	71.27	111.07	1.61	0.51	-30.93
	9500.00	4.09	215.17	100	9497.73	-30.98	30.98 S	63.20 E	70.39	116.11	1.08	0.95	8.07
	9600.00	4.48	222.35	100	9597.45	-36.78	36.78 S	58.52 E	69.12	122.15	0.66	0.39	7.18
	9700.00	3.04	214.92	100	9697.23	-41.84	41.84 S	54.37 E	68.61	127.58	1.52	-1.44	-7.43
	9800.00	1.76	180.29	100	9797.15	-45.55	45.55 S	52.84 E	69.77	130.76	1.88	-1.28	-34.63
	9900.00	1.20	160.42	100	9897.11	-48.07	48.07 S	53.19 E	71.69	132.11	0.75	-0.56	-19.87
	10000.00	1.70	116.13	100	9997.08	-49.71	49.71 S	54.87 E	74.04	132.18	1.19	0.50	-44.29