



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	Northing: 520,199.70 usft	Latitude: 32° 25' 42.113 N
+N/-S 0.0 usft	Easting: 706,486.30 usft	Longitude: 103° 39' 50.809 W
+E/-W 0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 3,753.0 usft
Position Uncertainty 0.0 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
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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



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Wellbore: Original Hole
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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



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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



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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	56.80	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	-0.83	-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



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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	-1,738.9	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	-2,118.5	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



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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		Comment
		+N/-S (usft)	+E/-W (usft)	
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