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30-015-44453 DISTRICT II-ARTESIA O.C.D.

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H

Fuller 14-23 W2IP Fed #4H

Original Hole

Design: Original Hole

Standard Survey Report

04 December, 2017



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fuller 14-23 W2IP Fed #4H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2953 + 27 @ 2980.0usft (Patterson 250)
Site:	Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H	MD Reference:	2953 + 27 @ 2980.0usft (Patterson 250)
Well:	Fuller 14-23 W2IP Fed #4H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy 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 14-23.26S-29E Fuller14-23 W2IP Fed #4H				
Site Position:		Northing:	379,385.40 usft	Latitude:	32° 2' 32.715 N
From:	Map	Easting:	661,141.20 usft	Longitude:	103° 56' 48.041 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.21 °

Well	Fuller 14-23 W2IP Fed #4H					
Well Position	+N/-S	0.0 usft	Northing:	379,385.40 usft	Latitude:	32° 2' 32.715 N
	+E/-W	0.0 usft	Easting:	661,141.20 usft	Longitude:	103° 56' 48.041 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level:	2,953.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/17/2017	7.08	59.83	47,759.23617111

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	176.29	

Survey Program	Date 12/4/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
632.0	19,030.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
522.0	1.09	61.76	521.9	-2.7	-3.7	2.4	0.00	0.00	0.00
632.0	1.40	75.30	631.9	-1.9	-1.5	1.8	0.39	0.28	12.31
693.0	1.40	79.60	692.9	-1.5	0.0	1.5	0.17	0.00	7.05
755.0	1.50	92.20	754.9	-1.4	1.5	1.5	0.54	0.16	20.32
815.0	0.10	143.30	814.9	-1.5	2.3	1.6	2.40	-2.33	85.17
876.0	1.10	258.00	875.9	-1.7	1.8	1.8	1.88	1.64	188.03
938.0	1.60	251.60	937.9	-2.1	0.4	2.1	0.84	0.81	-10.32
998.0	1.80	261.70	997.8	-2.5	-1.3	2.4	0.60	0.33	16.83
1,029.0	1.90	253.90	1,028.8	-2.7	-2.3	2.5	0.87	0.32	-25.16
1,095.0	0.90	234.80	1,094.8	-3.3	-3.8	3.0	1.65	-1.52	-28.94

Company: Mewbourne Oil Company
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Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
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)
1,159.0	1.10	152.70	1,158.8	-4.1	-3.9	3.8	2.07	0.31	-128.28
1,222.0	1.30	164.90	1,221.8	-5.3	-3.5	5.1	0.51	0.32	19.37
1,286.0	1.40	180.30	1,285.8	-6.8	-3.3	6.6	0.59	0.16	24.06
1,350.0	0.80	274.10	1,349.7	-7.6	-3.7	7.3	2.59	-0.94	146.56
1,413.0	1.80	332.10	1,412.7	-6.7	-4.6	6.4	2.44	1.59	92.06
1,477.0	1.90	329.70	1,476.7	-4.9	-5.6	4.5	0.20	0.16	-3.75
1,540.0	0.80	359.50	1,539.7	-3.5	-6.2	3.1	2.02	-1.75	47.30
1,604.0	0.70	89.00	1,603.7	-3.1	-5.8	2.7	1.65	-0.16	139.84
1,667.0	1.00	115.00	1,666.7	-3.3	-4.9	3.0	0.76	0.48	41.27
1,730.0	1.30	117.50	1,729.7	-3.9	-3.8	3.6	0.48	0.48	3.97
1,794.0	1.30	115.80	1,793.6	-4.5	-2.5	4.3	0.06	0.00	-2.66
1,857.0	1.60	108.70	1,856.6	-5.1	-1.0	5.0	0.55	0.48	-11.27
1,921.0	0.60	108.00	1,920.6	-5.5	0.2	5.5	1.56	-1.56	-1.09
1,984.0	0.20	251.80	1,983.6	-5.6	0.4	5.6	1.22	-0.63	228.25
2,047.0	0.20	264.00	2,046.6	-5.7	0.2	5.7	0.07	0.00	19.37
2,175.0	0.40	243.60	2,174.6	-5.9	-0.4	5.8	0.17	0.16	-15.94
2,269.0	0.60	237.10	2,268.6	-6.3	-1.1	6.2	0.22	0.21	-6.91
2,362.0	0.80	233.20	2,361.6	-7.0	-2.1	6.8	0.22	0.22	-4.19
2,456.0	0.50	221.60	2,455.6	-7.7	-2.9	7.5	0.35	-0.32	-12.34
2,549.0	0.80	155.30	2,548.6	-8.6	-2.9	8.3	0.81	0.32	-71.29
2,643.0	1.20	151.70	2,642.6	-10.0	-2.1	9.9	0.43	0.43	-3.83
2,736.0	1.60	151.90	2,735.5	-12.0	-1.1	11.9	0.43	0.43	0.22
2,830.0	2.20	130.70	2,829.5	-14.3	0.9	14.4	0.97	0.64	-22.55
2,923.0	1.30	131.90	2,922.4	-16.2	3.1	16.4	0.97	-0.97	1.29
3,002.0	0.40	129.60	3,001.4	-17.0	3.9	17.2	1.14	-1.14	-2.91
3,111.0	0.50	93.50	3,110.4	-17.3	4.7	17.5	0.27	0.09	-33.12
3,204.0	0.60	94.10	3,203.4	-17.3	5.6	17.7	0.11	0.11	0.65
3,298.0	0.60	94.90	3,297.4	-17.4	6.6	17.8	0.01	0.00	0.85
3,391.0	0.40	82.60	3,390.4	-17.4	7.4	17.8	0.24	-0.22	-13.23
3,484.0	0.20	192.80	3,483.4	-17.5	7.7	18.0	0.54	-0.22	118.49
3,578.0	0.30	195.00	3,577.4	-17.9	7.6	18.4	0.11	0.11	2.34
3,671.0	0.30	34.80	3,670.4	-18.0	7.7	18.4	0.64	0.00	-172.26
3,764.0	0.40	293.10	3,763.4	-17.6	7.5	18.1	0.59	0.11	-109.35
3,858.0	0.40	357.20	3,857.4	-17.2	7.2	17.6	0.45	0.00	68.19
3,951.0	0.30	273.80	3,950.4	-16.8	6.9	17.2	0.51	-0.11	-89.68
4,044.0	0.30	227.30	4,043.4	-17.0	6.5	17.4	0.25	0.00	-50.00
4,138.0	0.50	336.30	4,137.4	-16.8	6.2	17.1	0.70	0.21	115.96
4,231.0	0.30	256.80	4,230.4	-16.5	5.8	16.8	0.57	-0.22	-85.48
4,325.0	0.50	321.60	4,324.4	-16.2	5.3	16.5	0.49	0.21	68.94
4,418.0	0.70	334.60	4,417.4	-15.4	4.8	15.6	0.26	0.22	13.98
4,512.0	1.10	326.00	4,511.4	-14.1	4.0	14.3	0.45	0.43	-9.15
4,605.0	1.10	308.20	4,604.4	-12.8	2.8	13.0	0.37	0.00	-19.14

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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)
4,698.0	0.60	292.30	4,697.4	-12.1	1.7	12.1	0.59	-0.54	-17.10
4,792.0	0.40	313.10	4,791.4	-11.6	1.0	11.7	0.28	-0.21	22.13
4,885.0	0.50	289.70	4,884.4	-11.3	0.3	11.3	0.22	0.11	-25.16
4,979.0	0.70	259.90	4,978.4	-11.3	-0.6	11.2	0.39	0.21	-31.70
5,072.0	0.20	259.70	5,071.4	-11.4	-1.3	11.3	0.54	-0.54	-0.22
5,166.0	0.90	223.00	5,165.3	-11.9	-2.0	11.8	0.80	0.74	-39.04
5,259.0	0.90	199.80	5,258.3	-13.2	-2.7	13.0	0.39	0.00	-24.95
5,352.0	0.20	287.90	5,351.3	-13.8	-3.1	13.6	0.98	-0.75	94.73
5,446.0	1.00	285.00	5,445.3	-13.5	-4.1	13.3	0.85	0.85	-3.09
5,539.0	1.00	290.30	5,538.3	-13.1	-5.6	12.7	0.10	0.00	5.70
5,633.0	0.60	287.50	5,632.3	-12.6	-6.9	12.2	0.43	-0.43	-2.98
5,726.0	1.00	250.00	5,725.3	-12.8	-8.1	12.2	0.69	0.43	-40.32
5,820.0	0.50	255.00	5,819.3	-13.1	-9.3	12.5	0.54	-0.53	5.32
5,913.0	0.40	229.60	5,912.3	-13.5	-9.9	12.8	0.24	-0.11	-27.31
6,007.0	1.40	49.80	6,006.3	-12.9	-9.3	12.3	1.91	1.06	-191.28
6,101.0	1.10	47.90	6,100.3	-11.6	-7.7	11.1	0.32	-0.32	-2.02
6,194.0	0.80	84.70	6,193.2	-10.9	-6.4	10.5	0.71	-0.32	39.57
6,288.0	1.20	68.20	6,287.2	-10.5	-4.9	10.2	0.52	0.43	-17.55
6,381.0	1.10	76.20	6,380.2	-9.9	-3.1	9.7	0.20	-0.11	8.60
6,474.0	0.30	69.70	6,473.2	-9.6	-2.0	9.5	0.86	-0.86	-6.99
6,568.0	0.40	190.10	6,567.2	-9.9	-1.8	9.7	0.65	0.11	128.09
6,661.0	0.70	214.70	6,660.2	-10.6	-2.2	10.5	0.40	0.32	26.45
6,755.0	0.90	228.40	6,754.2	-11.6	-3.1	11.4	0.29	0.21	14.57
6,848.0	1.50	227.40	6,847.2	-12.9	-4.5	12.6	0.65	0.65	-1.08
6,942.0	1.40	252.70	6,941.1	-14.1	-6.5	13.6	0.68	-0.11	26.91
7,035.0	1.50	268.80	7,034.1	-14.5	-8.8	13.9	0.45	0.11	17.31
7,129.0	1.90	256.70	7,128.1	-14.8	-11.6	14.1	0.57	0.43	-12.87
7,222.0	0.90	350.30	7,221.0	-14.5	-13.2	13.6	2.31	-1.08	100.65
7,316.0	1.30	26.10	7,315.0	-12.8	-12.8	11.9	0.83	0.43	38.09
7,409.0	1.50	23.80	7,408.0	-10.7	-11.9	9.9	0.22	0.22	-2.47
7,503.0	0.80	333.00	7,502.0	-9.0	-11.7	8.2	1.25	-0.74	-54.04
7,596.0	2.20	270.30	7,595.0	-8.4	-13.8	7.5	2.11	1.51	-67.42
7,690.0	0.90	300.90	7,688.9	-8.0	-16.2	7.0	1.59	-1.38	32.55
7,783.0	0.90	248.00	7,781.9	-7.9	-17.5	6.8	0.86	0.00	-56.88
7,877.0	0.40	307.20	7,875.9	-8.0	-18.5	6.8	0.82	-0.53	62.98
7,970.0	1.70	87.30	7,968.9	-7.8	-17.3	6.6	2.18	1.40	150.65
8,063.0	2.10	87.40	8,061.8	-7.6	-14.3	6.7	0.43	0.43	0.11
8,157.0	1.90	90.40	8,155.8	-7.5	-11.0	6.8	0.24	-0.21	3.19
8,251.0	1.10	91.70	8,249.7	-7.6	-8.5	7.0	0.85	-0.85	1.38
8,344.0	0.50	131.90	8,342.7	-7.9	-7.3	7.4	0.85	-0.65	43.23
8,438.0	1.40	150.30	8,436.7	-9.2	-6.5	8.7	1.00	0.96	19.57
8,532.0	0.70	121.50	8,530.7	-10.5	-5.4	10.1	0.91	-0.74	-30.64
8,625.0	0.20	58.50	8,623.7	-10.7	-4.8	10.3	0.68	-0.54	-67.74

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Project: Eddy County, N.M. Nad (83)
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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
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MD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
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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)
8,719.0	0.90	208.60	8,717.7	-11.2	-5.0	10.9	1.15	0.74	159.68
8,812.0	0.80	237.00	8,810.7	-12.2	-5.9	11.8	0.46	-0.11	30.54
8,905.0	1.30	254.90	8,903.7	-12.8	-7.4	12.3	0.64	0.54	19.25
8,999.0	1.20	232.00	8,997.7	-13.7	-9.2	13.1	0.54	-0.11	-24.36
9,092.0	1.30	241.00	9,090.6	-14.8	-10.9	14.1	0.24	0.11	9.68
9,186.0	1.90	252.60	9,184.6	-15.8	-13.4	14.9	0.72	0.64	12.34
9,279.0	2.10	251.20	9,277.5	-16.8	-16.4	15.7	0.22	0.22	-1.51
9,373.0	1.50	248.90	9,371.5	-17.8	-19.2	16.6	0.64	-0.64	-2.45
9,466.0	1.60	272.00	9,464.5	-18.2	-21.7	16.8	0.68	0.11	24.84
9,559.0	1.10	247.20	9,557.4	-18.5	-23.8	17.0	0.82	-0.54	-26.67
9,654.0	0.50	199.50	9,652.4	-19.3	-24.8	17.6	0.89	-0.63	-50.21
9,747.0	0.60	191.40	9,745.4	-20.1	-25.0	18.5	0.14	0.11	-8.71
9,841.0	0.80	207.40	9,839.4	-21.2	-25.4	19.5	0.30	0.21	17.02
9,934.0	0.60	201.90	9,932.4	-22.2	-25.9	20.5	0.23	-0.22	-5.91
10,027.0	1.10	191.70	10,025.4	-23.6	-26.2	21.8	0.56	0.54	-10.97
10,121.0	1.30	192.20	10,119.4	-25.5	-26.6	23.7	0.21	0.21	0.53
10,214.0	0.70	216.60	10,212.4	-27.0	-27.2	25.2	0.78	-0.65	26.24
10,307.0	1.80	351.00	10,305.3	-26.0	-27.8	24.1	2.52	1.18	144.52
10,401.0	2.50	337.00	10,399.3	-22.6	-28.8	20.7	0.93	0.74	-14.89
10,495.0	2.80	294.40	10,493.2	-19.8	-31.7	17.7	2.07	0.32	-45.32
10,589.0	3.10	287.00	10,587.1	-18.1	-36.2	15.7	0.52	0.32	-7.87
10,683.0	2.10	265.80	10,681.0	-17.5	-40.4	14.8	1.46	-1.06	-22.55
10,722.0	2.50	262.20	10,719.9	-17.7	-41.9	14.9	1.09	1.03	-9.23
10,753.0	2.90	247.30	10,750.9	-18.1	-43.3	15.2	2.60	1.29	-48.06
10,784.0	3.10	233.80	10,781.9	-18.8	-44.7	15.9	2.36	0.65	-43.55
10,816.0	3.20	216.10	10,813.8	-20.1	-45.9	17.1	3.04	0.31	-55.31
10,847.0	5.80	192.20	10,844.7	-22.3	-46.8	19.2	10.17	8.39	-77.10
10,878.0	9.60	180.90	10,875.4	-26.4	-47.1	23.3	13.14	12.26	-36.45
10,909.0	12.70	177.60	10,905.8	-32.4	-47.0	29.3	10.21	10.00	-10.65
10,940.0	16.50	174.70	10,935.8	-40.2	-46.5	37.1	12.48	12.26	-9.35
10,971.0	20.30	173.00	10,965.3	-49.9	-45.4	46.9	12.38	12.26	-5.48
11,002.0	23.50	175.50	10,994.0	-61.4	-44.3	58.4	10.75	10.32	8.06
11,033.0	26.60	182.30	11,022.1	-74.5	-44.1	71.5	13.63	10.00	21.94
11,064.0	29.50	186.30	11,049.5	-89.1	-45.2	86.0	11.15	9.35	12.90
11,095.0	30.60	187.00	11,076.3	-104.5	-47.0	101.2	3.72	3.55	2.26
11,127.0	32.20	184.70	11,103.6	-121.1	-48.7	117.7	6.25	5.00	-7.19
11,158.0	34.60	182.80	11,129.5	-138.1	-49.8	134.6	8.44	7.74	-6.13
11,189.0	35.60	183.50	11,154.8	-155.9	-50.8	152.3	3.48	3.23	2.26
11,220.0	38.00	184.00	11,179.7	-174.4	-52.0	170.7	7.80	7.74	1.61
11,255.0	41.90	182.40	11,206.5	-196.9	-53.2	193.0	11.52	11.14	-4.57
11,286.0	47.60	180.00	11,228.5	-218.7	-53.7	214.7	19.18	18.39	-7.74
11,317.0	54.10	179.00	11,248.1	-242.7	-53.4	238.7	21.12	20.97	-3.23

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fuller 14-23 W2IP Fed #4H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2953 + 27 @ 2980.0usft (Patterson 250)
Site:	Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H	MD Reference:	2953 + 27 @ 2980.0usft (Patterson 250)
Well:	Fuller 14-23 W2IP Fed #4H	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)
11,349.0	60.30	175.80	11,265.4	-269.5	-52.2	265.6	21.12	19.38	-10.00
11,380.0	66.60	173.30	11,279.2	-297.1	-49.6	293.3	21.56	20.32	-8.06
11,418.0	74.50	173.20	11,291.9	-332.7	-45.3	329.1	20.79	20.79	-0.26
11,449.0	79.70	174.10	11,298.8	-362.7	-42.0	359.2	17.01	16.77	2.90
11,480.0	86.20	175.60	11,302.6	-393.3	-39.2	390.0	21.51	20.97	4.84
11,511.0	92.70	176.10	11,302.9	-424.2	-37.0	420.9	21.03	20.97	1.61
11,542.0	91.50	176.10	11,301.8	-455.1	-34.9	451.9	3.87	-3.87	0.00
11,574.0	91.60	178.90	11,300.9	-487.1	-33.5	483.9	8.75	0.31	8.75
11,605.0	86.40	176.30	11,301.4	-518.0	-32.2	514.9	18.75	-16.77	-8.39
11,636.0	88.00	177.40	11,303.0	-549.0	-30.5	545.8	6.26	5.16	3.55
11,667.0	92.50	179.80	11,302.8	-579.9	-29.7	576.8	16.45	14.52	7.74
11,697.5	90.23	178.72	11,302.1	-610.5	-29.4	607.3	8.22	-7.42	-3.55
LP Fuller 14-23 W2IP Fed #4H									
11,698.0	90.20	178.70	11,302.1	-610.9	-29.3	607.7	8.22	-7.42	-3.55
11,730.0	89.10	179.80	11,302.3	-642.9	-28.9	639.7	4.86	-3.44	3.44
11,761.0	90.50	182.00	11,302.4	-673.9	-29.4	670.6	8.41	4.52	7.10
11,792.0	89.80	184.60	11,302.3	-704.9	-31.2	701.4	8.69	-2.26	8.39
11,823.0	90.70	186.90	11,302.2	-735.7	-34.3	731.9	7.97	2.90	7.42
11,854.0	89.00	189.00	11,302.3	-766.4	-38.6	762.3	8.72	-5.48	6.77
11,885.0	87.20	191.60	11,303.3	-796.9	-44.1	792.4	10.20	-5.81	8.39
11,916.0	86.30	193.50	11,305.0	-827.1	-50.9	822.1	6.77	-2.90	6.13
11,947.0	85.80	193.50	11,307.2	-857.2	-58.1	851.6	1.61	-1.61	0.00
11,979.0	83.70	192.50	11,310.1	-888.2	-65.2	882.1	7.26	-6.56	-3.13
12,010.0	83.60	190.10	11,313.5	-918.4	-71.3	911.9	7.70	-0.32	-7.74
12,041.0	83.10	188.40	11,317.1	-948.8	-76.2	941.9	5.68	-1.61	-5.48
12,072.0	85.10	187.40	11,320.3	-979.3	-80.5	972.1	7.21	6.45	-3.23
12,103.0	86.10	186.10	11,322.7	-1,010.0	-84.1	1,002.5	5.28	3.23	-4.19
12,135.0	86.00	186.30	11,324.9	-1,041.8	-87.5	1,033.9	0.70	-0.31	0.63
12,166.0	87.20	185.20	11,326.7	-1,072.6	-90.6	1,064.5	5.25	3.87	-3.55
12,197.0	88.10	183.60	11,328.0	-1,103.4	-93.0	1,095.1	5.92	2.90	-5.16
12,228.0	88.50	182.10	11,328.9	-1,134.4	-94.6	1,125.9	5.01	1.29	-4.84
12,259.0	90.20	180.60	11,329.3	-1,165.4	-95.3	1,156.8	7.31	5.48	-4.84
12,290.0	91.60	179.50	11,328.8	-1,196.4	-95.3	1,187.7	5.74	4.52	-3.55
12,321.0	92.50	179.90	11,327.7	-1,227.4	-95.2	1,218.6	3.18	2.90	1.29
12,353.0	92.00	180.00	11,326.4	-1,259.3	-95.1	1,250.5	1.59	-1.56	0.31
12,415.0	89.70	177.90	11,325.5	-1,321.3	-94.0	1,312.5	5.02	-3.71	-3.39
12,508.0	89.10	176.90	11,326.5	-1,414.2	-89.8	1,405.4	1.25	-0.65	-1.08
12,602.0	92.20	178.80	11,325.4	-1,508.1	-86.2	1,499.4	3.87	3.30	2.02
12,695.0	89.20	175.30	11,324.3	-1,601.0	-81.5	1,592.3	4.96	-3.23	-3.76
12,788.0	86.50	174.70	11,327.8	-1,693.5	-73.4	1,685.2	2.97	-2.90	-0.65
12,882.0	90.80	178.50	11,330.0	-1,787.3	-67.8	1,779.2	6.10	4.57	4.04
12,975.0	89.20	172.60	11,330.0	-1,880.0	-60.6	1,872.1	6.57	-1.72	-6.34
13,006.0	90.10	171.80	11,330.2	-1,910.7	-56.4	1,903.0	3.88	2.90	-2.58

Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
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)
13,038.0	89.40	171.10	11,330.3	-1,942.3	-51.6	1,934.9	3.09	-2.19	-2.19
13,069.0	89.20	170.60	11,330.7	-1,972.9	-46.7	1,965.8	1.74	-0.65	-1.61
13,100.0	90.20	170.80	11,330.9	-2,003.5	-41.7	1,996.6	3.29	3.23	0.65
13,131.0	89.80	170.70	11,330.9	-2,034.1	-36.7	2,027.5	1.33	-1.29	-0.32
13,162.0	90.10	169.50	11,330.9	-2,064.7	-31.4	2,058.3	3.99	0.97	-3.87
13,193.0	89.70	169.00	11,330.9	-2,095.1	-25.6	2,089.1	2.07	-1.29	-1.61
13,225.0	89.50	168.80	11,331.2	-2,126.5	-19.4	2,120.8	0.88	-0.63	-0.63
13,256.0	88.90	169.50	11,331.6	-2,157.0	-13.6	2,151.6	2.97	-1.94	2.26
13,287.0	89.30	172.10	11,332.1	-2,187.6	-8.6	2,182.4	8.48	1.29	8.39
13,318.0	87.10	174.90	11,333.1	-2,218.3	-5.1	2,213.4	11.48	-7.10	9.03
13,349.0	88.30	177.00	11,334.3	-2,249.2	-2.9	2,244.3	7.80	3.87	6.77
13,381.0	88.70	178.00	11,335.1	-2,281.2	-1.5	2,276.3	3.36	1.25	3.13
13,412.0	87.60	177.70	11,336.1	-2,312.2	-0.4	2,307.3	3.68	-3.55	-0.97
13,443.0	90.70	180.90	11,336.6	-2,343.1	0.0	2,338.2	14.37	10.00	10.32
13,474.0	93.90	181.40	11,335.4	-2,374.1	-0.6	2,369.1	10.45	10.32	1.61
13,505.0	94.90	182.30	11,333.0	-2,405.0	-1.6	2,399.9	4.33	3.23	2.90
13,537.0	94.80	181.90	11,330.3	-2,436.9	-2.8	2,431.6	1.28	-0.31	-1.25
13,568.0	91.30	181.90	11,328.6	-2,467.8	-3.8	2,462.4	11.29	-11.29	0.00
13,599.0	93.70	181.50	11,327.3	-2,498.7	-4.7	2,493.2	7.85	7.74	-1.29
13,630.0	93.50	181.40	11,325.3	-2,529.7	-5.5	2,524.0	0.72	-0.65	-0.32
13,661.0	93.40	181.90	11,323.5	-2,560.6	-6.4	2,554.8	1.64	-0.32	1.61
13,723.0	88.70	180.50	11,322.3	-2,622.6	-7.7	2,616.6	7.91	-7.58	-2.26
13,754.0	89.10	181.60	11,322.9	-2,653.6	-8.3	2,647.5	3.78	1.29	3.55
13,785.0	89.40	182.20	11,323.3	-2,684.5	-9.3	2,678.3	2.16	0.97	1.94
13,817.0	89.80	182.80	11,323.5	-2,716.5	-10.7	2,710.1	2.25	1.25	1.88
13,848.0	91.00	181.20	11,323.3	-2,747.5	-11.8	2,741.0	6.45	3.87	-5.16
13,879.0	89.30	178.50	11,323.2	-2,778.5	-11.7	2,771.9	10.29	-5.48	-8.71
13,910.0	89.00	178.30	11,323.7	-2,809.5	-10.8	2,802.9	1.16	-0.97	-0.65
13,941.0	92.00	179.30	11,323.4	-2,840.4	-10.2	2,833.8	10.20	9.68	3.23
14,003.0	98.20	181.40	11,317.9	-2,902.2	-10.6	2,895.4	10.55	10.00	3.39
14,034.0	98.20	181.40	11,313.5	-2,932.8	-11.3	2,926.0	0.00	0.00	0.00
14,065.0	95.60	180.70	11,309.8	-2,963.6	-11.9	2,956.6	8.68	-8.39	-2.26
14,096.0	93.30	181.90	11,307.4	-2,994.5	-12.6	2,987.4	8.36	-7.42	3.87
14,127.0	92.10	181.50	11,305.9	-3,025.5	-13.5	3,018.3	4.08	-3.87	-1.29
14,158.0	91.00	181.10	11,305.1	-3,056.4	-14.2	3,049.1	3.78	-3.55	-1.29
14,189.0	90.70	180.70	11,304.6	-3,087.4	-14.7	3,080.0	1.61	-0.97	-1.29
14,283.0	91.60	180.30	11,302.7	-3,181.4	-15.5	3,173.7	1.05	0.96	-0.43
14,376.0	89.30	179.80	11,302.0	-3,274.4	-15.6	3,266.5	2.53	-2.47	-0.54
14,470.0	88.70	180.00	11,303.6	-3,368.4	-15.4	3,360.3	0.67	-0.64	0.21
14,563.0	94.40	183.90	11,301.1	-3,461.2	-18.6	3,452.8	7.42	6.13	4.19
14,594.0	94.90	184.10	11,298.6	-3,492.1	-20.7	3,483.4	1.74	1.61	0.65
14,626.0	93.90	183.30	11,296.2	-3,523.9	-22.8	3,515.1	4.00	-3.13	-2.50

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fuller 14-23 W2IP Fed #4H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2953 + 27 @ 2980.0usft (Patterson 250)
Site:	Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H	MD Reference:	2953 + 27 @ 2980.0usft (Patterson 250)
Well:	Fuller 14-23 W2IP Fed #4H	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)
14,657.0	93.60	183.70	11,294.1	-3,554.8	-24.7	3,545.7	1.61	-0.97	1.29
14,688.0	92.80	184.00	11,292.4	-3,585.7	-26.8	3,576.4	2.76	-2.58	0.97
14,719.0	91.30	182.90	11,291.3	-3,616.6	-28.6	3,607.2	6.00	-4.84	-3.55
14,750.0	89.90	182.60	11,291.0	-3,647.5	-30.1	3,638.0	4.62	-4.52	-0.97
14,781.0	88.90	182.20	11,291.3	-3,678.5	-31.4	3,668.8	3.47	-3.23	-1.29
14,844.0	86.40	182.40	11,293.9	-3,741.4	-33.9	3,731.4	3.98	-3.97	0.32
14,875.0	87.70	182.60	11,295.5	-3,772.3	-35.3	3,762.2	4.24	4.19	0.65
14,906.0	86.70	182.00	11,297.0	-3,803.3	-36.5	3,793.0	3.76	-3.23	-1.94
14,937.0	87.10	183.10	11,298.7	-3,834.2	-37.9	3,823.7	3.77	1.29	3.55
14,968.0	87.90	183.30	11,300.0	-3,865.1	-39.6	3,854.5	2.66	2.58	0.65
14,999.0	92.30	185.10	11,300.0	-3,896.0	-41.9	3,885.2	15.33	14.19	5.81
15,031.0	92.40	185.90	11,298.6	-3,927.8	-45.0	3,916.7	2.52	0.31	2.50
15,062.0	89.80	185.20	11,298.0	-3,958.7	-48.0	3,947.3	8.69	-8.39	-2.26
15,093.0	88.60	183.20	11,298.5	-3,989.6	-50.2	3,978.0	7.52	-3.87	-6.45
15,124.0	88.70	182.80	11,299.2	-4,020.6	-51.9	4,008.8	1.33	0.32	-1.29
15,155.0	89.10	183.20	11,299.8	-4,051.5	-53.5	4,039.6	1.82	1.29	1.29
15,186.0	88.70	182.90	11,300.4	-4,082.5	-55.1	4,070.4	1.61	-1.29	-0.97
15,217.0	88.20	182.20	11,301.2	-4,113.4	-56.5	4,101.2	2.77	-1.61	-2.26
15,249.0	90.50	184.10	11,301.6	-4,145.4	-58.3	4,132.9	9.32	7.19	5.94
15,280.0	94.50	186.30	11,300.3	-4,176.2	-61.1	4,163.5	14.72	12.90	7.10
15,311.0	94.60	187.00	11,297.8	-4,206.9	-64.6	4,193.9	2.27	0.32	2.26
15,342.0	88.90	184.00	11,296.8	-4,237.7	-67.6	4,224.5	20.77	-18.39	-9.68
15,373.0	87.80	183.30	11,297.7	-4,268.6	-69.6	4,255.2	4.21	-3.55	-2.26
15,404.0	89.20	184.00	11,298.5	-4,299.6	-71.6	4,285.9	5.05	4.52	2.26
15,435.0	90.10	184.10	11,298.7	-4,330.5	-73.7	4,316.7	2.92	2.90	0.32
15,467.0	91.00	183.90	11,298.4	-4,362.4	-76.0	4,348.4	2.88	2.81	-0.63
15,498.0	90.30	183.00	11,298.1	-4,393.3	-77.8	4,379.1	3.68	-2.26	-2.90
15,529.0	90.10	183.00	11,298.0	-4,424.3	-79.5	4,409.9	0.65	-0.65	0.00
15,591.0	91.90	184.10	11,296.9	-4,486.2	-83.3	4,471.4	3.40	2.90	1.77
15,685.0	88.00	179.70	11,297.0	-4,580.1	-86.4	4,564.9	6.25	-4.15	-4.68
15,778.0	89.30	181.20	11,299.2	-4,673.0	-87.1	4,657.6	2.13	1.40	1.61
15,872.0	87.60	180.70	11,301.7	-4,767.0	-88.7	4,751.3	1.89	-1.81	-0.53
15,965.0	91.50	181.90	11,302.4	-4,860.0	-90.8	4,843.9	4.39	4.19	1.29
16,059.0	88.80	180.70	11,302.2	-4,953.9	-92.9	4,937.5	3.14	-2.87	-1.28
16,152.0	90.80	182.60	11,302.5	-5,046.9	-95.6	5,030.1	2.97	2.15	2.04
16,245.0	89.40	181.90	11,302.4	-5,139.8	-99.3	5,122.6	1.68	-1.51	-0.75
16,339.0	90.60	181.30	11,302.4	-5,233.8	-101.9	5,216.2	1.43	1.28	-0.64
16,432.0	93.40	184.50	11,299.1	-5,326.6	-106.6	5,308.5	4.57	3.01	3.44
16,526.0	90.80	181.40	11,295.7	-5,420.3	-111.4	5,401.8	4.30	-2.77	-3.30
16,619.0	90.10	180.80	11,294.9	-5,513.3	-113.2	5,494.5	0.99	-0.75	-0.65
16,713.0	89.10	181.40	11,295.6	-5,607.3	-115.0	5,588.1	1.24	-1.06	0.64
16,806.0	91.40	182.70	11,295.2	-5,700.2	-118.3	5,680.7	2.84	2.47	1.40
16,902.0	90.80	181.90	11,293.3	-5,796.1	-122.2	5,776.1	1.04	-0.63	-0.83

Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
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)
16,997.0	88.20	178.60	11,294.2	-5,891.1	-122.6	5,870.9	4.42	-2.74	-3.47
17,092.0	89.40	179.50	11,296.2	-5,986.1	-121.0	5,965.7	1.58	1.26	0.95
17,187.0	89.70	179.30	11,296.9	-6,081.1	-120.0	6,060.6	0.38	0.32	-0.21
17,282.0	89.90	179.60	11,297.2	-6,176.1	-119.1	6,155.4	0.38	0.21	0.32
17,378.0	92.50	181.90	11,295.2	-6,272.0	-120.4	6,251.1	3.62	2.71	2.40
17,473.0	89.80	181.80	11,293.3	-6,366.9	-123.5	6,345.6	2.84	-2.84	-0.11
17,567.0	89.60	184.80	11,293.8	-6,460.8	-128.9	6,438.9	3.20	-0.21	3.19
17,662.0	94.90	188.80	11,290.1	-6,555.0	-140.1	6,532.2	6.99	5.58	4.21
17,757.0	90.00	186.40	11,286.0	-6,649.0	-152.6	6,625.3	5.74	-5.16	-2.53
17,852.0	86.90	186.00	11,288.6	-6,743.4	-162.9	6,718.8	3.29	-3.26	-0.42
17,945.0	86.70	183.60	11,293.8	-6,835.9	-170.7	6,810.6	2.59	-0.22	-2.58
18,040.0	91.10	182.50	11,295.6	-6,930.8	-175.7	6,904.9	4.77	4.63	-1.16
18,135.0	89.50	179.30	11,295.1	-7,025.7	-177.2	6,999.6	3.77	-1.68	-3.37
18,230.0	91.00	179.80	11,294.7	-7,120.7	-176.5	7,094.4	1.66	1.58	0.53
18,325.0	90.20	179.10	11,293.7	-7,215.7	-175.5	7,189.3	1.12	-0.84	-0.74
18,420.0	89.80	177.50	11,293.7	-7,310.7	-172.7	7,284.2	1.74	-0.42	-1.68
18,515.0	92.00	176.50	11,292.2	-7,405.5	-167.8	7,379.2	2.54	2.32	-1.05
18,610.0	90.00	180.20	11,290.5	-7,500.5	-165.0	7,474.1	4.43	-2.11	3.89
18,705.0	88.70	181.70	11,291.6	-7,595.4	-166.6	7,568.8	2.09	-1.37	1.58
18,800.0	87.40	180.50	11,294.9	-7,690.4	-168.4	7,663.4	1.86	-1.37	-1.26
18,895.0	89.40	184.30	11,297.5	-7,785.2	-172.4	7,757.8	4.52	2.11	4.00
18,977.0	90.20	190.40	11,297.8	-7,866.5	-182.9	7,838.2	7.50	0.98	7.44
19,020.9	90.20	190.40	11,297.6	-7,909.7	-190.8	7,880.8	0.00	0.00	0.00
PBHL Fuller 14-23 W2IP Fed #4H									
19,030.0	90.20	190.40	11,297.6	-7,918.6	-192.5	7,889.6	0.00	0.00	0.00
19030' Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
19,030.0	11,297.6	-7,918.6	-192.5	19030' Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Fuller 14-23 W2IP Fed #4H
 COUNTY: Eddy County, N.M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson 250



OFFICE: 936.582.7296

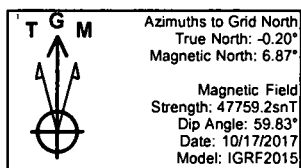
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.87°

GEODETTIC ZONE: New Mexico Eastern Zone
 2953 + 27 @ 2980.0usft (Patterson 250)
 GROUND ELEVATION: 2953.0

+N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 379385.40 661141.20 32° 2' 32.715 N 103° 56' 48.041 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	10744.0	0.00	0.00	10744.0	0.0	0.0	0.00	0.00	0.0	
3	11646.8	90.27	180.67	11317.0	-575.6	-6.7	10.00	180.67	575.7	
4	18999.4	90.27	180.67	11282.0	-7927.7	-92.2	0.00	0.00	7928.2	PBHL Fuller 14-23 W2IP Fed #4H



SHL: 2500' FNL: 350' FEL
 Section 14-26S-29E
 PBHL: 330' FSL: 440' FEL
 Section 23-26S-29E

