

HOBBS OCD

OCT 04 2013

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Mewbourne Oil Company

LEA COUNTY, NM (NAD83)

Section 21

Wildcat 21 LI Fed Com #1H

OH

Design: OH

Standard Survey Report

10 September, 2013

OCT 07 2013

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wildcat 21 LI Fed Com #1H
Project:	LEA COUNTY, NM (NAD83)	TVD Reference:	GL 3498 + 20 @ 3518.0usft (Trinidad 110)
Site:	Section 21	MD Reference:	GL 3498 + 20 @ 3518.0usft (Trinidad 110)
Well:	Wildcat 21 LI Fed Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM:5000.1 Single User Db

Project	LEA COUNTY, NM (NAD83), NM-East		
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 21		
Site Position:		Northing:	469,988.70 usft
From:	Map	Easting:	804,086.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 21.155 N
		Longitude:	103° 28' 59.010 W
		Grid Convergence:	0.45 °

Well	Wildcat 21 LI Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 469,988.70 usft
	+E/-W	0.0 usft	Easting: 804,086.10 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 17' 21.155 N
		Longitude:	103° 28' 59.010 W
		Ground Level:	3,498.0 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/24/2013	7.28	60.21	48,445

Design	OH		
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Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	97.39

Survey Program		Date	9/10/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	10,750.0	VES Gyro #1 (OH)	SRG-GYRO-MS	surface readout gyro multishot	
10,896.0	16,160.0	Survey #2 (OH)	MWD	MWD - Standard	

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	0.07	288.12	100.0	0.0	-0.1	-0.1	0.07	0.07	0.00
200.0	0.10	261.72	200.0	0.0	-0.2	-0.2	0.05	0.03	-26.40
300.0	0.34	252.67	300.0	-0.1	-0.6	-0.6	0.24	0.24	-9.05
400.0	0.28	249.78	400.0	-0.2	-1.1	-1.0	0.06	-0.06	-2.89
500.0	0.41	240.39	500.0	-0.5	-1.6	-1.5	0.14	0.13	-9.39
600.0	0.45	243.52	600.0	-0.9	-2.3	-2.2	0.05	0.04	3.13
700.0	0.64	231.57	700.0	-1.4	-3.1	-2.9	0.22	0.19	-11.95
800.0	1.18	213.36	800.0	-2.6	-4.1	-3.7	0.61	0.54	-18.21
900.0	1.32	204.35	900.0	-4.5	-5.1	-4.5	0.24	0.14	-9.01

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Well:	Wildcat 21 LI Fed Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
1,000.0	1.27	203.40	999.9	-6.6	-6.0	-5.1	0.05	-0.05	-0.95
1,100.0	1.67	200.79	1,099.9	-8.9	-7.0	-5.8	0.41	0.40	-2.61
1,200.0	1.61	187.11	1,199.9	-11.7	-7.7	-6.1	0.40	-0.06	-13.68
1,300.0	1.56	188.85	1,299.8	-14.4	-8.1	-6.1	0.07	-0.05	1.74
1,400.0	1.28	191.12	1,399.8	-16.9	-8.5	-6.3	0.29	-0.28	2.27
1,500.0	0.95	189.40	1,499.8	-18.8	-8.8	-6.4	0.33	-0.33	-1.72
1,600.0	0.75	210.33	1,599.8	-20.2	-9.3	-6.6	0.37	-0.20	20.93
1,700.0	0.40	265.21	1,699.7	-20.8	-10.0	-7.2	0.61	-0.35	54.88
1,800.0	0.84	326.34	1,799.7	-20.2	-10.7	-8.1	0.74	0.44	61.13
1,900.0	0.99	331.05	1,899.7	-18.8	-11.6	-9.0	0.17	0.15	4.71
2,000.0	1.38	329.26	1,999.7	-17.0	-12.6	-10.3	0.39	0.39	-1.79
2,100.0	2.13	341.21	2,099.7	-14.2	-13.8	-11.9	0.83	0.75	11.95
2,200.0	2.67	347.69	2,199.6	-10.2	-14.9	-13.5	0.60	0.54	6.48
2,300.0	3.32	355.23	2,299.4	-5.0	-15.6	-14.9	0.76	0.65	7.54
2,400.0	3.75	358.75	2,399.2	1.1	-16.0	-16.0	0.48	0.43	3.52
2,500.0	3.99	1.09	2,499.0	7.9	-16.0	-16.8	0.29	0.24	2.34
2,600.0	4.30	3.72	2,598.8	15.1	-15.7	-17.5	0.36	0.31	2.63
2,700.0	4.56	5.23	2,698.5	22.8	-15.0	-17.9	0.28	0.26	1.51
2,800.0	4.72	4.56	2,798.1	30.8	-14.4	-18.2	0.17	0.16	-0.67
2,900.0	5.01	8.84	2,897.8	39.3	-13.4	-18.3	0.46	0.29	4.28
3,000.0	5.04	9.01	2,997.4	47.9	-12.0	-18.1	0.03	0.03	0.17
3,100.0	4.99	11.63	3,097.0	56.5	-10.4	-17.6	0.23	-0.05	2.62
3,200.0	5.14	14.15	3,196.6	65.1	-8.5	-16.8	0.27	0.15	2.52
3,300.0	5.12	11.18	3,296.2	73.8	-6.5	-15.9	0.27	-0.02	-2.97
3,400.0	4.76	12.42	3,395.8	82.3	-4.7	-15.3	0.38	-0.36	1.24
3,500.0	4.34	13.65	3,495.5	90.0	-3.0	-14.5	0.43	-0.42	1.23
3,600.0	3.60	20.60	3,595.3	96.6	-1.0	-13.4	0.88	-0.74	6.95
3,700.0	3.55	25.81	3,695.1	102.3	1.5	-11.7	0.33	-0.05	5.21
3,800.0	4.11	37.66	3,794.9	108.0	5.0	-8.9	0.97	0.56	11.85
3,900.0	4.94	40.95	3,894.6	114.0	10.0	-4.7	0.87	0.83	3.29
4,000.0	5.94	43.73	3,994.1	121.0	16.4	0.7	1.03	1.00	2.78
4,100.0	5.92	45.50	4,093.6	128.4	23.7	7.0	0.18	-0.02	1.77
4,200.0	4.36	50.35	4,193.2	134.4	30.3	12.8	1.62	-1.56	4.85
4,300.0	2.45	56.11	4,293.0	138.0	35.0	17.0	1.94	-1.91	5.76
4,400.0	1.99	75.07	4,392.9	139.7	38.4	20.2	0.86	-0.46	18.96
4,500.0	2.26	85.90	4,492.8	140.3	42.1	23.7	0.48	0.27	10.83
4,600.0	2.72	93.18	4,592.7	140.3	46.4	28.0	0.56	0.46	7.28
4,700.0	2.96	88.24	4,692.6	140.2	51.4	32.9	0.34	0.24	-4.94
4,800.0	2.11	84.08	4,792.5	140.5	55.8	37.3	0.87	-0.85	-4.16
4,900.0	1.22	87.65	4,892.5	140.7	58.7	40.1	0.90	-0.89	3.57
5,000.0	0.48	83.23	4,992.5	140.8	60.2	41.6	0.74	-0.74	-4.42
5,100.0	0.19	97.34	5,092.5	140.9	60.7	42.1	0.30	-0.29	14.11
5,200.0	0.13	127.46	5,192.5	140.8	61.0	42.4	0.10	-0.06	30.12

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
5,300.0	0.05	146.49	5,292.5	140.7	61.1	42.5	0.08	-0.08	19.03
5,400.0	0.06	131.89	5,392.5	140.6	61.2	42.6	0.02	0.01	-14.60
5,500.0	0.13	150.08	5,492.5	140.5	61.3	42.7	0.08	0.07	18.19
5,600.0	0.10	171.49	5,592.5	140.3	61.3	42.8	0.05	-0.03	21.41
5,700.0	0.11	159.40	5,692.5	140.1	61.4	42.9	0.02	0.01	-12.09
5,800.0	0.10	162.24	5,792.5	139.9	61.4	42.9	0.01	-0.01	2.84
5,900.0	0.11	127.37	5,892.5	139.8	61.6	43.1	0.06	0.01	-34.87
6,000.0	0.16	102.52	5,992.5	139.7	61.8	43.3	0.08	0.05	-24.85
6,100.0	0.03	75.49	6,092.5	139.7	61.9	43.4	0.13	-0.13	-27.03
6,200.0	0.38	112.53	6,192.5	139.5	62.3	43.8	0.36	0.35	37.04
6,300.0	0.24	115.73	6,292.5	139.3	62.8	44.3	0.14	-0.14	3.20
6,400.0	0.38	110.37	6,392.5	139.1	63.3	44.8	0.14	0.14	-5.36
6,500.0	0.36	84.90	6,492.5	139.0	63.9	45.5	0.16	-0.02	-25.47
6,600.0	0.44	113.13	6,592.5	138.9	64.5	46.1	0.21	0.08	28.23
6,700.0	0.45	135.18	6,692.5	138.5	65.2	46.8	0.17	0.01	22.05
6,800.0	0.16	152.54	6,792.5	138.1	65.5	47.2	0.30	-0.29	17.36
6,900.0	0.54	157.72	6,892.5	137.5	65.8	47.5	0.38	0.38	5.18
7,000.0	0.67	176.69	6,992.4	136.5	66.0	47.9	0.24	0.13	18.97
7,100.0	0.79	180.83	7,092.4	135.2	66.0	48.1	0.13	0.12	4.14
7,200.0	0.74	175.61	7,192.4	133.9	66.0	48.3	0.09	-0.05	-5.22
7,300.0	0.64	174.02	7,292.4	132.7	66.1	48.5	0.10	-0.10	-1.59
7,400.0	0.80	186.43	7,392.4	131.4	66.1	48.7	0.22	0.16	12.41
7,500.0	1.17	174.07	7,492.4	129.7	66.1	48.9	0.42	0.37	-12.36
7,600.0	1.11	190.61	7,592.4	127.8	66.1	49.1	0.33	-0.06	16.54
7,700.0	1.33	207.70	7,692.4	125.8	65.4	48.6	0.42	0.22	17.09
7,800.0	1.23	201.22	7,792.3	123.8	64.4	48.0	0.18	-0.10	-6.48
7,900.0	1.22	196.58	7,892.3	121.7	63.7	47.5	0.10	-0.01	-4.64
8,000.0	1.06	207.44	7,992.3	119.9	63.0	47.1	0.27	-0.16	10.86
8,100.0	0.91	205.71	8,092.3	118.4	62.2	46.5	0.15	-0.15	-1.73
8,200.0	0.90	216.26	8,192.3	117.0	61.4	45.9	0.17	-0.01	10.55
8,300.0	1.02	234.28	8,292.3	115.9	60.2	44.8	0.32	0.12	18.02
8,400.0	0.81	252.59	8,392.2	115.1	58.8	43.5	0.36	-0.21	18.31
8,500.0	0.69	282.00	8,492.2	115.0	57.6	42.3	0.40	-0.12	29.41
8,600.0	1.08	291.49	8,592.2	115.5	56.1	40.8	0.42	0.39	9.49
8,700.0	1.09	300.64	8,692.2	116.3	54.4	39.0	0.17	0.01	9.15
8,800.0	1.88	323.83	8,792.2	118.2	52.6	37.0	0.98	0.79	23.19
8,900.0	2.83	334.50	8,892.1	121.7	50.6	34.5	1.04	0.95	10.67
9,000.0	3.52	340.39	8,991.9	126.8	48.5	31.8	0.76	0.69	5.89
9,100.0	3.46	351.22	9,091.7	132.7	47.0	29.6	0.66	-0.06	10.83
9,200.0	2.99	341.46	9,191.6	138.2	45.7	27.6	0.72	-0.47	-9.76
9,300.0	2.86	336.46	9,291.5	142.9	43.9	25.2	0.29	-0.13	-5.00
9,400.0	2.92	333.71	9,391.3	147.5	41.8	22.5	0.15	0.06	-2.75
9,500.0	3.22	322.07	9,491.2	152.0	38.9	19.0	0.69	0.30	-11.64

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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)
9,600.0	4.28	319.59	9,591.0	157.0	34.8	14.3	1.07	1.06	-2.48
9,700.0	3.76	314.68	9,690.7	162.2	30.0	8.9	0.62	-0.52	-4.91
9,800.0	3.11	300.89	9,790.5	165.9	25.4	3.8	1.05	-0.65	-13.79
9,900.0	3.04	291.47	9,890.4	168.2	20.6	-1.2	0.51	-0.07	-9.42
10,000.0	2.97	279.02	9,990.3	169.6	15.5	-6.4	0.66	-0.07	-12.45
10,100.0	1.44	263.97	10,090.2	169.9	11.7	-10.2	1.62	-1.53	-15.05
10,200.0	1.61	231.87	10,190.2	168.9	9.4	-12.4	0.86	0.17	-32.10
10,300.0	1.74	224.31	10,290.1	166.9	7.2	-14.3	0.26	0.13	-7.56
10,400.0	2.06	244.68	10,390.1	165.1	4.5	-16.7	0.74	0.32	20.37
10,500.0	2.14	262.45	10,490.0	164.1	1.1	-20.1	0.65	0.08	17.77
10,600.0	1.78	285.23	10,589.9	164.2	-2.3	-23.4	0.85	-0.36	22.78
10,700.0	1.10	299.00	10,689.9	165.1	-4.6	-25.8	0.76	-0.68	13.77
10,750.0	0.87	319.98	10,739.9	165.6	-5.3	-26.6	0.85	-0.46	41.96
10,896.0	0.50	344.20	10,885.9	167.1	-6.2	-27.6	0.32	-0.25	16.59
10,941.0	0.80	103.90	10,930.9	167.2	-5.9	-27.4	2.52	0.67	266.00
10,986.0	4.50	123.60	10,975.8	166.2	-4.2	-25.5	8.35	8.22	43.78
11,030.0	8.50	125.50	11,019.5	163.3	-0.1	-21.1	9.10	9.09	4.32
11,075.0	12.20	122.90	11,063.8	158.8	6.6	-13.8	8.29	8.22	-5.78
11,120.0	17.00	120.00	11,107.3	152.9	16.3	-3.5	10.79	10.67	-6.44
11,165.0	23.00	119.00	11,149.6	145.4	29.7	10.8	13.35	13.33	-2.22
11,211.0	28.80	117.80	11,191.0	135.8	47.4	29.5	12.66	12.61	-2.61
11,256.0	35.00	116.90	11,229.1	124.9	68.5	51.9	13.82	13.78	-2.00
11,301.0	39.40	117.10	11,265.0	112.6	92.8	77.5	9.78	9.78	0.44
11,346.0	44.40	117.20	11,298.5	98.9	119.5	105.8	11.11	11.11	0.22
11,391.0	50.50	116.70	11,328.9	83.9	149.0	137.0	13.58	13.56	-1.11
11,436.0	55.40	116.00	11,356.0	67.9	181.2	171.0	10.96	10.89	-1.56
11,481.0	58.10	116.40	11,380.7	51.3	215.0	206.6	6.05	6.00	0.89
11,526.0	62.30	116.90	11,403.0	33.8	249.9	243.4	9.38	9.33	1.11
11,571.0	66.90	116.90	11,422.3	15.4	286.1	281.7	10.22	10.22	0.00
11,616.0	69.90	115.50	11,438.9	-3.1	323.6	321.3	7.27	6.67	-3.11
11,661.0	73.70	113.20	11,452.9	-20.7	362.6	362.2	9.74	8.44	-5.11
11,706.0	77.10	111.60	11,464.3	-37.3	402.8	404.3	8.30	7.56	-3.56
11,806.0	83.90	113.20	11,480.8	-74.8	494.0	499.5	6.98	6.80	1.60
11,838.0	85.10	112.10	11,483.8	-87.1	523.4	530.2	5.08	3.75	-3.44
11,869.0	86.30	112.80	11,486.2	-98.9	551.9	560.1	4.48	3.87	2.26
11,901.0	89.50	111.40	11,487.3	-110.9	581.5	591.0	10.91	10.00	-4.38
11,932.0	91.40	110.70	11,487.1	-122.1	610.5	621.1	6.53	6.13	-2.26
11,972.0	90.80	110.20	11,486.3	-136.0	647.9	660.1	1.95	-1.50	-1.25
12,027.0	90.10	109.30	11,485.9	-154.6	699.7	713.8	2.07	-1.27	-1.64
12,059.0	91.60	108.30	11,485.4	-164.9	730.0	745.1	5.63	4.69	-3.13
12,121.0	92.40	108.80	11,483.3	-184.6	788.7	805.9	1.52	1.29	0.81
12,152.0	93.20	108.10	11,481.7	-194.4	818.1	836.3	3.43	2.58	-2.26
12,183.0	92.90	108.10	11,480.1	-204.1	847.5	866.7	0.97	-0.97	0.00
12,215.0	92.00	106.50	11,478.7	-213.6	878.1	898.2	5.73	-2.81	-5.00

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wildcat 21 LI Fed Com #1H
Project:	LEA COUNTY, NM (NAD83)	TVD Reference:	GL 3498 + 20 @ 3518.0usft (Trinidad 110)
Site:	Section 21	MD Reference:	GL 3498 + 20 @ 3518.0usft (Trinidad 110)
Well:	Wildcat 21 LI Fed Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,310.0	92.00	104.20	11,475.4	-238.7	969.6	992.3	2.42	0.00	-2.42
12,404.0	91.80	103.20	11,472.3	-260.9	1,060.9	1,085.6	1.08	-0.21	-1.06
12,499.0	90.50	101.90	11,470.4	-281.6	1,153.6	1,180.2	1.94	-1.37	-1.37
12,594.0	89.30	100.50	11,470.5	-300.0	1,246.8	1,275.0	1.94	-1.26	-1.47
12,688.0	90.10	99.70	11,471.0	-316.5	1,339.3	1,368.9	1.20	0.85	-0.85
12,782.0	88.80	98.40	11,471.9	-331.3	1,432.1	1,462.9	1.96	-1.38	-1.38
12,877.0	92.00	97.00	11,471.3	-344.0	1,526.3	1,557.8	3.68	3.37	-1.47
12,973.0	90.50	95.80	11,469.2	-354.7	1,621.6	1,653.8	2.00	-1.56	-1.25
13,067.0	91.20	94.70	11,467.8	-363.3	1,715.2	1,747.7	1.39	0.74	-1.17
13,162.0	90.70	94.40	11,466.2	-370.9	1,809.9	1,842.6	0.61	-0.53	-0.32
13,256.0	90.00	93.50	11,465.6	-377.3	1,903.7	1,936.4	1.21	-0.74	-0.96
13,351.0	90.00	92.30	11,465.6	-382.1	1,998.6	2,031.1	1.26	0.00	-1.26
13,446.0	91.50	93.30	11,464.4	-386.8	2,093.4	2,125.8	1.90	1.58	1.05
13,540.0	91.50	93.50	11,461.9	-392.4	2,187.2	2,219.5	0.21	0.00	0.21
13,635.0	93.90	97.00	11,457.5	-401.0	2,281.7	2,314.4	4.46	2.53	3.68
13,730.0	91.90	97.40	11,452.7	-412.9	2,375.8	2,409.2	2.15	-2.11	0.42
13,825.0	89.00	98.20	11,451.9	-425.8	2,470.0	2,504.2	3.17	-3.05	0.84
13,856.0	88.50	98.40	11,452.6	-430.3	2,500.6	2,535.2	1.74	-1.61	0.65
13,887.0	88.50	98.10	11,453.4	-434.7	2,531.3	2,566.2	0.97	0.00	-0.97
13,919.0	88.10	98.40	11,454.3	-439.3	2,562.9	2,598.2	1.56	-1.25	0.94
13,951.0	88.00	98.10	11,455.4	-443.9	2,594.6	2,630.1	0.99	-0.31	-0.94
13,983.0	88.20	98.10	11,456.5	-448.4	2,626.3	2,662.1	0.63	0.63	0.00
14,014.0	87.90	98.20	11,457.5	-452.8	2,656.9	2,693.1	1.02	-0.97	0.32
14,046.0	88.50	96.70	11,458.6	-457.0	2,688.6	2,725.1	5.05	1.88	-4.69
14,077.0	88.30	96.10	11,459.4	-460.4	2,719.4	2,756.1	2.04	-0.65	-1.94
14,109.0	89.10	94.20	11,460.1	-463.3	2,751.3	2,788.0	6.44	2.50	-5.94
14,140.0	88.90	93.30	11,460.7	-465.3	2,782.2	2,819.0	2.97	-0.65	-2.90
14,204.0	89.80	93.00	11,461.4	-468.8	2,846.1	2,882.8	1.48	1.41	-0.47
14,299.0	92.70	94.00	11,459.3	-474.6	2,940.9	2,977.5	3.23	3.05	1.05
14,330.0	92.90	94.40	11,457.8	-476.9	2,971.8	3,008.4	1.44	0.65	1.29
14,362.0	93.30	95.10	11,456.1	-479.5	3,003.6	3,040.4	2.52	1.25	2.19
14,394.0	90.80	95.10	11,455.0	-482.4	3,035.5	3,072.3	7.81	-7.81	0.00
14,457.0	89.80	94.60	11,454.6	-487.7	3,098.3	3,135.3	1.77	-1.59	-0.79
14,488.0	88.50	94.20	11,455.1	-490.1	3,129.2	3,166.2	4.39	-4.19	-1.29
14,520.0	87.90	94.20	11,456.1	-492.4	3,161.1	3,198.1	1.88	-1.88	0.00
14,551.0	87.60	94.00	11,457.3	-494.6	3,192.0	3,229.1	1.16	-0.97	-0.65
14,583.0	87.50	93.90	11,458.7	-496.8	3,223.9	3,261.0	0.44	-0.31	-0.31
14,615.0	88.40	93.50	11,459.8	-498.9	3,255.8	3,292.9	3.08	2.81	-1.25
14,646.0	89.30	93.30	11,460.4	-500.8	3,286.7	3,323.8	2.97	2.90	-0.65
14,678.0	89.90	93.90	11,460.7	-502.8	3,318.6	3,355.7	2.65	1.88	1.88
14,709.0	90.70	94.20	11,460.5	-504.9	3,349.6	3,386.7	2.76	2.58	0.97
14,741.0	91.30	94.20	11,459.9	-507.3	3,381.5	3,418.6	1.88	1.88	0.00
14,773.0	91.20	94.20	11,459.2	-509.6	3,413.4	3,450.6	0.31	-0.31	0.00

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Wildcat 21 LI Fed Com #1H
Project:	LEA COUNTY, NM (NAD83)	TVD Reference:	GL 3498 + 20 @ 3518.0usft (Trinidad 110)
Site:	Section 21	MD Reference:	GL 3498 + 20 @ 3518.0usft (Trinidad 110)
Well:	Wildcat 21 LI Fed Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
14,804.0	91.00	94.20	11,458.6	-511.9	3,444.3	3,481.5	0.65	-0.65	0.00
14,836.0	90.70	94.20	11,458.2	-514.2	3,476.2	3,513.5	0.94	-0.94	0.00
14,867.0	90.20	94.40	11,457.9	-516.6	3,507.1	3,544.4	1.74	-1.61	0.65
14,899.0	90.00	94.20	11,457.9	-519.0	3,539.0	3,576.4	0.88	-0.63	-0.63
14,931.0	89.80	93.90	11,457.9	-521.2	3,570.9	3,608.3	1.13	-0.63	-0.94
14,962.0	90.00	93.30	11,458.0	-523.2	3,601.9	3,639.3	2.04	0.65	-1.94
14,994.0	90.00	93.30	11,458.0	-525.0	3,633.8	3,671.2	0.00	0.00	0.00
15,026.0	90.00	92.60	11,458.0	-526.7	3,665.8	3,703.1	2.19	0.00	-2.19
15,057.0	89.60	92.80	11,458.1	-528.1	3,696.7	3,734.0	1.44	-1.29	0.65
15,121.0	90.00	92.10	11,458.3	-530.9	3,760.7	3,797.7	1.26	0.63	-1.09
15,153.0	90.30	91.90	11,458.2	-532.0	3,792.7	3,829.6	1.13	0.94	-0.63
15,184.0	90.20	91.90	11,458.1	-533.0	3,823.7	3,860.4	0.32	-0.32	0.00
15,247.0	91.20	91.40	11,457.3	-534.8	3,886.6	3,923.1	1.77	1.59	-0.79
15,279.0	91.50	91.20	11,456.6	-535.5	3,918.6	3,954.9	1.13	0.94	-0.63
15,310.0	91.40	90.90	11,455.8	-536.1	3,949.6	3,985.7	1.02	-0.32	-0.97
15,368.0	92.20	90.50	11,454.0	-536.8	4,007.6	4,043.3	1.54	1.38	-0.69
15,399.0	92.30	91.60	11,452.8	-537.4	4,038.5	4,074.1	3.56	0.32	3.55
15,462.0	93.50	92.10	11,449.6	-539.4	4,101.4	4,136.7	2.06	1.90	0.79
15,494.0	92.90	93.70	11,447.8	-541.0	4,133.3	4,168.6	5.33	-1.88	5.00
15,525.0	92.70	93.70	11,446.3	-543.0	4,164.2	4,199.5	0.65	-0.65	0.00
15,556.0	92.30	93.50	11,444.9	-545.0	4,195.1	4,230.4	1.44	-1.29	-0.65
15,619.0	92.40	94.70	11,442.3	-549.5	4,257.9	4,293.2	1.91	0.16	1.90
15,651.0	92.20	94.70	11,441.0	-552.1	4,289.8	4,325.2	0.63	-0.63	0.00
15,746.0	90.40	96.10	11,438.9	-561.0	4,384.3	4,420.1	2.40	-1.89	1.47
15,840.0	88.80	95.30	11,439.5	-570.4	4,477.9	4,514.0	1.90	-1.70	-0.85
15,903.0	89.80	94.60	11,440.3	-575.8	4,540.6	4,577.0	1.94	1.59	-1.11
15,935.0	91.00	94.20	11,440.1	-578.3	4,572.5	4,608.9	3.95	3.75	-1.25
15,997.0	93.60	94.00	11,437.6	-582.7	4,634.3	4,670.8	4.21	4.19	-0.32
16,029.0	93.30	93.70	11,435.7	-584.8	4,666.2	4,702.6	1.32	-0.94	-0.94
16,111.0	93.20	92.80	11,431.0	-589.5	4,747.9	4,784.3	1.10	-0.12	-1.10
16,160.0	93.20	92.80	11,428.3	-591.9	4,796.8	4,833.1	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Comment
10,750.0	10,739.9	165.6	-5.3	10750' MD VES Gyro
16,160.0	11,428.3	-591.9	4,796.8	16160' MD Projected to Bit