

OPERATOR  
WELL/LEASE  
COUNTY

MEWBOURNE OIL COMPANY  
DORADO 34 EH FED COM 1H  
EDDY

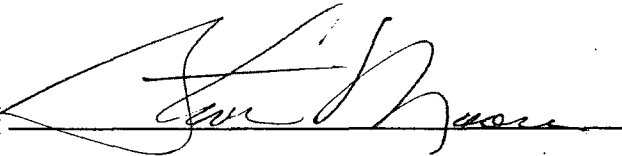
041-0119

STATE OF NEW MEXICO  
DEVIATION REPORT

30-015-41896

742	1.50
924	1.40
1,429	1.10
1,699	0.90
2,077	1.00
2,389	0.40
2,673	1.00
2,960	1.30
3,331	0.40
3,530	1.40
3,713	1.20
4,065	1.80
4,381	1.20
4,666	2.60
4,915	2.50
5,200	2.10
5,327	2.20
5,453	3.20
5,480	2.61
5,678	2.70
5,773	1.80
5,899	2.77
6,057	2.40
6,215	2.50
6,686	2.03
6,901	2.93
7,068	1.15
7,446	0.17
7,814	1.00
7,845	1.60
7,877	5.20

RECEIVED  
MAR 11 2014  
NMOCD ARTESIA

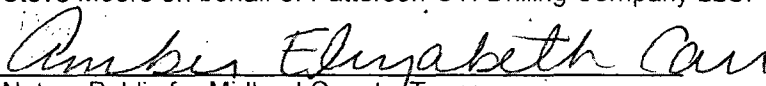
BY: 

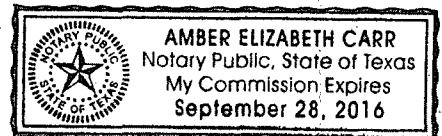
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

2/11/14, by

  
Notary Public for Midland County, Texas  
My Commission Expires:



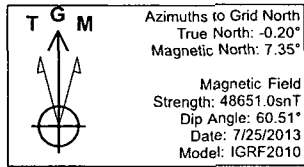


COMPANY: Mewbourne Oil Company  
 WELL: Dorado 34 EH Fed Com #1H Section 34  
 COUNTY: Eddy County, New Mexico  
 DATUM: NAD 1927 (NADCON CONUS)  
 RIG: Patterson 41



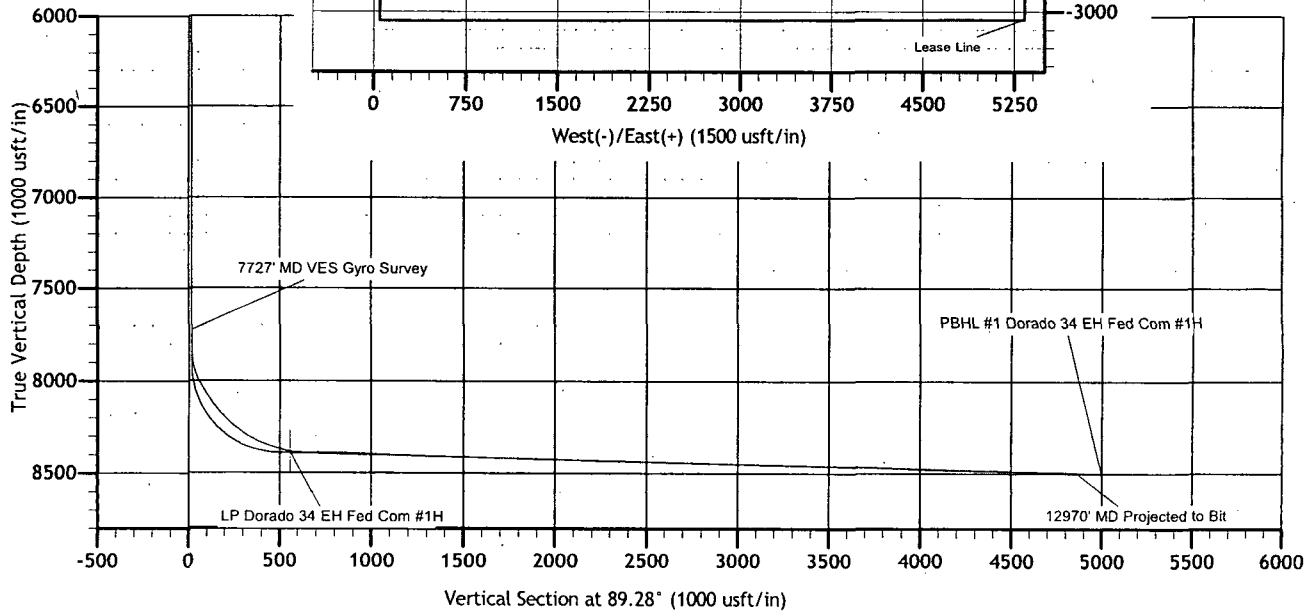
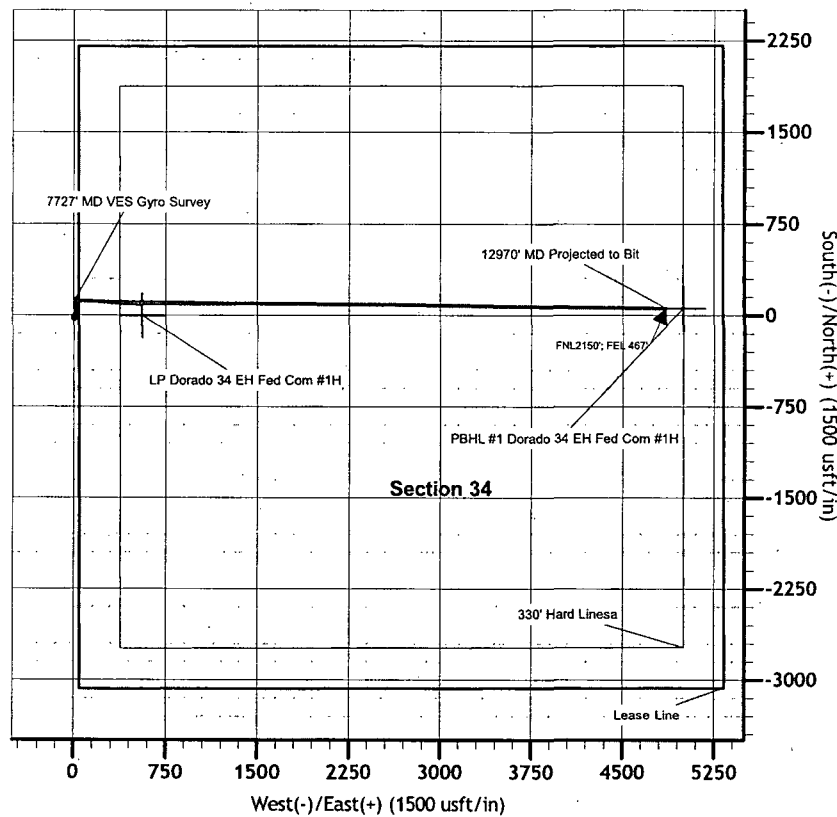
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.35°

OFFICE: 934.582.7294



GEODEIC ZONE: New Mexico East 3001						Slot	
GL 3434 + 20 @ 3454.0usft (Patterson 41)							
GROUND ELEVATION: 3434.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	620385.38	612367.27	32° 42' 18.018 N	103° 58' 4.910 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	7727.0	0.73	188.16	7723.1	131.2	15.2	0.00	0.00	16.8	
2	7913.8	0.73	188.16	7909.9	128.9	14.8	0.00	0.00	16.5	
3	8652.9	88.59	90.69	8388.0	117.4	480.5	12.00	-97.49	481.9	
4	13171.7	88.59	90.69	8499.0	63.1	4997.6	0.00	0.00	4998.0	PBHL #1 Dorado 34 EH Fed Com #1H





# **Mewbourne Oil Company .**

**Eddy County, New Mexico**

**Dorado 34 EH Fed Com #1H**

**Dorado 34 EH Fed Com #1H. Section 34**

**OH**

**Design: OH**

## **Standard Survey Report**

**23 January, 2014**





# Stryker Directional Survey Report



<b>Company:</b>	Mewbourne Oil Company	<b>Local Co-ordinate Reference:</b>	Well Dorado 34 EH Fed Com #1H Section 34
<b>Project:</b>	Eddy County, New Mexico	<b>TVD Reference:</b>	GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Site:</b>	Dorado 34 EH Fed Com #1H	<b>MD Reference:</b>	GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Well:</b>	Dorado 34 EH Fed Com #1H Section 34	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	EDM 5000.1 Single User.Db

<b>Project:</b> Eddy County, New Mexico			
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico East 3001		

<b>Site:</b> Dorado 34 EH Fed Com #1H			
<b>Site Position:</b>		<b>Northing:</b>	620,385.38 usft
<b>From:</b>	Map	<b>Easting:</b>	612,367.27 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 42' 18.018 N
		<b>Longitude:</b>	103° 58' 4.910 W
		<b>Grid Convergence:</b>	0.20 °

<b>Well:</b> Dorado 34 EH Fed Com #1H Section 34			
<b>Well Position</b>	<b>+N-S</b>	0.0 usft	<b>Northing:</b> 620,385.38 usft
	<b>+E-W</b>	0.0 usft	<b>Easting:</b> 612,367.27 usft
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b> usft
			<b>Ground Level:</b> 3,434.0 usft
			<b>Latitude:</b> 32° 42' 18.018 N
			<b>Longitude:</b> 103° 58' 4.910 W

<b>Wellbore:</b> OH			
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>
	IGRF2010	7/25/2013	(°) 7.55
			<b>Dip Angle</b> (°) 60.51
			<b>Field Strength</b> (nT) 48,651

<b>Design:</b> OH			
<b>Audit Notes:</b>			
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL
		<b>Tie On Depth:</b>	0.0

<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/S</b>	<b>+E/W</b>	<b>Direction</b>
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	89.28

<b>Survey Program</b>		<b>Date</b> 1/23/2014	
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>
(usft)	(usft)		
100.0	7,727.0	VES Gyro Survey #1 (OH)	GyroFlex
7,814.0	12,970.0	MWD Survey #2 (OH)	MWD
			<b>Description</b>
			MWD - Standard

<b>Survey</b>										
<b>Measured Depth</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical Depth</b>	<b>+N/S</b>	<b>+E/W</b>	<b>Vertical Section</b>	<b>Dogleg Rate</b>	<b>Builde Rate</b>	<b>Turn Rate</b>	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(%/100usft)	(%/100usft)	(%/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.83	202.69	100.0	-0.7	-0.3	-0.3	0.83	0.83	0.00	
200.0	1.29	177.94	200.0	-2.5	-0.5	-0.5	0.64	0.46	-24.75	
300.0	1.67	176.83	299.9	-5.0	-0.4	-0.5	0.38	0.38	-1.11	
400.0	2.02	182.95	399.9	-8.3	-0.4	-0.5	0.40	0.35	6.12	
500.0	2.01	176.61	499.8	-11.8	-0.4	-0.5	0.22	-0.01	-6.34	
600.0	1.81	180.57	599.8	-15.1	-0.3	-0.5	0.24	-0.20	3.96	
700.0	1.69	192.03	699.7	-18.1	-0.6	-0.9	0.37	-0.12	11.46	
800.0	1.45	183.93	799.7	-20.8	-1.0	-1.3	0.33	-0.24	-8.10	
900.0	1.27	174.48	899.7	-23.2	-1.0	-1.3	0.29	-0.18	-9.45	



# Stryker Directional Survey Report



<b>Company:</b>	Mewbourne Oil Company	<b>Local Co-ordinate Reference:</b>	Well Dorado 34 EH Fed Com #1H Section 34
<b>Project:</b>	Eddy County, New Mexico	<b>TVD Reference:</b>	GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Site:</b>	Dorado 34 EH Fed Com #1H	<b>MD Reference:</b>	GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Well:</b>	Dorado 34 EH Fed Com #1H Section 34	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	EDM-5000.1-Single User.Db

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	1.14	195.19	999.6	-25.3	-1.2	-1.5	0.45	-0.13	20.71
1,100.0	0.96	195.96	1,099.6	-27.0	-1.6	-2.0	0.18	-0.18	0.77
1,200.0	1.11	192.93	1,199.6	-28.8	-2.1	-2.5	0.16	0.15	-3.03
1,300.0	0.79	171.40	1,299.6	-30.4	-2.2	-2.6	0.47	-0.32	-21.53
1,400.0	0.73	137.90	1,399.6	-31.5	-1.7	-2.1	0.44	-0.06	-33.50
1,500.0	1.10	117.81	1,499.6	-32.5	-0.4	-0.8	0.48	0.37	-20.09
1,600.0	1.03	108.56	1,599.6	-33.2	1.3	0.9	0.19	-0.07	-9.25
1,700.0	1.01	106.55	1,699.5	-33.7	3.0	2.6	0.04	-0.02	-2.01
1,800.0	0.99	102.73	1,799.5	-34.2	4.7	4.3	0.07	-0.02	-3.82
1,900.0	0.93	91.31	1,899.5	-34.4	6.3	5.9	0.20	-0.06	-11.42
2,000.0	0.76	67.73	1,999.5	-34.2	7.8	7.3	0.38	-0.17	-23.58
2,100.0	0.87	62.35	2,099.5	-33.6	9.0	8.6	0.13	0.11	-5.38
2,200.0	0.75	42.24	2,199.5	-32.7	10.2	9.7	0.31	-0.12	-20.11
2,300.0	0.99	46.55	2,299.5	-31.6	11.2	10.8	0.25	0.24	4.31
2,400.0	0.75	39.78	2,399.5	-30.5	12.3	11.9	0.26	-0.24	-6.77
2,500.0	0.79	33.32	2,499.5	-29.5	13.1	12.7	0.10	0.04	-6.46
2,600.0	0.92	39.27	2,599.4	-28.3	14.0	13.6	0.16	0.13	5.95
2,700.0	0.83	48.94	2,699.4	-27.2	15.0	14.7	0.17	-0.09	9.67
2,800.0	1.20	27.70	2,799.4	-25.8	16.0	15.7	0.52	0.37	-21.24
2,900.0	0.98	23.25	2,899.4	-24.0	16.9	16.6	0.24	-0.22	-4.45
3,000.0	1.20	20.93	2,999.4	-22.3	17.6	17.3	0.22	0.22	-2.32
3,100.0	1.35	24.55	3,099.4	-20.2	18.4	18.2	0.17	0.15	3.62
3,200.0	1.39	26.17	3,199.3	-18.1	19.5	19.2	0.06	0.04	1.62
3,300.0	1.16	29.17	3,299.3	-16.1	20.5	20.3	0.24	-0.23	3.00
3,400.0	1.44	23.65	3,399.3	-14.1	21.5	21.3	0.31	0.28	-5.52
3,500.0	1.32	33.75	3,499.2	-12.0	22.6	22.5	0.27	-0.12	10.10
3,600.0	1.27	26.85	3,599.2	-10.0	23.8	23.7	0.16	-0.05	-6.90
3,700.0	1.40	20.33	3,699.2	-7.9	24.7	24.6	0.20	0.13	-6.52
3,800.0	1.28	19.04	3,799.2	-5.7	25.5	25.4	0.12	-0.12	-1.29
3,900.0	1.26	25.55	3,899.1	-3.6	26.3	26.3	0.15	-0.02	6.51
4,000.0	1.54	21.11	3,999.1	-1.4	27.3	27.3	0.30	0.28	-4.44
4,100.0	1.59	19.95	4,099.1	1.2	28.2	28.3	0.06	0.05	-1.16
4,200.0	1.74	2.87	4,199.0	4.0	28.8	28.8	0.52	0.15	-17.08
4,300.0	1.83	354.48	4,299.0	7.1	28.7	28.8	0.28	0.09	-8.39
4,400.0	1.97	355.30	4,398.9	10.4	28.4	28.6	0.14	0.14	0.82
4,500.0	2.21	350.01	4,498.9	14.0	27.9	28.1	0.31	0.24	-5.29
4,600.0	1.99	347.91	4,598.8	17.6	27.3	27.5	0.23	-0.22	-2.10
4,700.0	2.67	339.21	4,698.7	21.5	26.1	26.3	0.76	0.68	-8.70
4,800.0	2.82	329.75	4,798.6	25.8	24.0	24.3	0.48	0.15	-9.46
4,900.0	2.66	333.65	4,898.5	30.0	21.7	22.1	0.25	-0.16	3.90
5,000.0	2.74	335.55	4,998.4	34.2	19.7	20.1	0.12	0.08	1.90
5,100.0	2.83	348.90	5,098.3	38.8	18.2	18.7	0.65	0.09	13.35
5,200.0	2.71	356.01	5,198.1	43.6	17.6	18.1	0.36	-0.12	7.11



# Stryker Directional Survey Report



<b>Company:</b>	Mewbourne Oil Company	<b>Local Co-ordinate Reference:</b>	Well Dorado 34 EH Fed Com #1H Section 34
<b>Project:</b>	Eddy County, New Mexico	<b>TVD Reference:</b>	GL 3434 +20 @ 3454.0usft (Patterson 41)
<b>Site:</b>	Dorado 34 EH Fed Com #1H	<b>MD Reference:</b>	GL 3434 +20 @ 3454.0usft (Patterson 41)
<b>Well:</b>	Dorado 34 EH Fed Com #1H Section 34	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	EDM 5000.1 Single User Db

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	2.83	354.39	5,298.0	48.4	17.2	17.8	0.14	0.12	-1.62
5,400.0	2.86	348.02	5,397.9	53.3	16.4	17.1	0.32	0.03	-6.37
5,500.0	2.79	354.79	5,497.8	58.2	15.7	16.4	0.34	-0.07	6.77
5,600.0	2.75	354.98	5,597.7	63.0	15.3	16.1	0.04	-0.04	0.19
5,700.0	2.60	353.67	5,697.5	67.7	14.8	15.7	0.16	-0.15	-1.31
5,800.0	2.36	356.28	5,797.5	72.0	14.4	15.3	0.27	-0.24	2.61
5,900.0	2.55	357.94	5,897.4	76.2	14.2	15.2	0.20	0.19	1.66
6,000.0	2.34	4.28	5,997.3	80.5	14.3	15.3	0.34	-0.21	6.34
6,100.0	2.28	5.90	6,097.2	84.5	14.6	15.7	0.09	-0.06	1.62
6,200.0	2.38	6.02	6,197.1	88.6	15.1	16.2	0.10	0.10	0.12
6,300.0	3.22	15.12	6,297.0	93.3	16.0	17.2	0.95	0.84	9.10
6,400.0	3.49	11.42	6,396.8	99.0	17.3	18.6	0.35	0.27	-3.70
6,500.0	3.04	9.15	6,496.7	104.6	18.4	19.7	0.47	-0.45	-2.27
6,600.0	2.31	9.64	6,596.5	109.2	19.1	20.5	0.73	-0.73	0.49
6,700.0	1.92	1.83	6,696.5	112.9	19.5	20.9	0.48	-0.39	-7.81
6,800.0	2.26	358.40	6,796.4	116.5	19.5	21.0	0.36	0.34	-3.43
6,900.0	1.89	345.97	6,896.3	120.1	19.1	20.6	0.58	-0.37	-12.43
7,000.0	1.78	345.57	6,996.3	123.2	18.3	19.8	0.11	-0.11	-0.40
7,100.0	2.07	352.85	7,096.2	126.5	17.7	19.3	0.38	0.29	7.28
7,200.0	1.65	349.77	7,196.2	129.7	17.2	18.8	0.43	-0.42	-3.08
7,300.0	0.98	345.17	7,296.2	132.0	16.7	18.4	0.68	-0.67	-4.60
7,400.0	0.14	303.50	7,396.2	132.9	16.4	18.1	0.88	-0.84	-41.67
7,500.0	0.27	240.80	7,496.2	132.8	16.1	17.7	0.24	0.13	-62.70
7,600.0	0.38	213.68	7,596.2	132.4	15.7	17.4	0.19	0.11	-27.12
7,700.0	0.74	202.92	7,696.1	131.6	15.3	16.9	0.37	0.36	-10.76
7,727.0	0.73	188.16	7,723.1	131.2	15.2	16.8	0.70	-0.04	-54.67
<b>7727 MD VES Gyro Survey</b>									
7,814.0	1.00	189.80	7,810.1	129.9	15.0	16.6	0.31	0.31	1.89
7,845.0	1.60	145.20	7,841.1	129.3	15.2	16.8	3.65	1.94	-143.87
7,877.0	5.20	116.00	7,873.1	128.3	16.7	18.3	12.13	11.25	-91.25
7,909.0	10.30	107.40	7,904.8	126.8	20.8	22.3	16.30	15.94	-26.88
7,940.0	15.80	104.40	7,935.0	124.9	27.5	29.1	17.87	17.74	-9.68
7,972.0	21.50	103.00	7,965.3	122.5	37.4	39.0	17.87	17.81	-4.38
8,003.0	26.60	101.40	7,993.6	119.9	49.8	51.3	16.58	16.45	-5.16
8,035.0	30.50	95.80	8,021.7	117.6	64.9	66.4	14.77	12.19	-17.50
8,067.0	33.00	90.30	8,048.9	116.8	81.7	83.1	11.94	7.81	-17.19
8,099.0	34.40	88.70	8,075.5	116.9	99.4	100.9	5.18	4.38	-5.00
8,130.0	35.30	87.90	8,100.9	117.5	117.1	118.6	3.26	2.90	-2.58
8,162.0	36.80	89.10	8,126.8	117.9	136.0	137.4	5.18	4.69	3.75
8,194.0	40.70	92.10	8,151.8	117.7	156.0	157.5	13.52	12.19	9.38
8,227.0	43.30	96.10	8,176.3	116.1	178.0	179.4	11.30	7.88	12.12
8,258.0	44.60	97.00	8,198.6	113.7	199.4	200.8	4.65	4.19	2.90
8,290.0	47.40	97.00	8,220.8	110.9	222.2	223.6	8.75	8.75	0.00



# Stryker Directional Survey Report



<b>Company:</b> Mewbourne Oil Company	<b>Local Co-ordinate Reference:</b> Well Dorado 34 EH Fed Com #1H Section 34
<b>Project:</b> Eddy County, New Mexico	<b>TVD Reference:</b> GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Site:</b> Dorado 34 EH Fed Com #1H	<b>MD Reference:</b> GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Well:</b> Dorado 34 EH Fed Com #1H Section 34	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> EDM 5000.1 Single User Db

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)
8,321.0	51.10	94.90	8,241.1	108.4	245.6	246.9	12.99	11.94	-6.77
8,353.0	53.40	93.80	8,260.7	106.5	270.8	272.1	7.68	7.19	-3.44
8,384.0	55.60	92.80	8,278.7	105.1	296.0	297.3	7.57	7.10	-3.23
8,416.0	58.40	92.60	8,296.1	103.8	322.8	324.1	8.77	8.75	-0.63
8,448.0	61.80	94.00	8,312.0	102.2	350.5	351.7	11.28	10.63	4.38
8,479.0	64.20	94.20	8,326.1	100.2	378.0	379.3	7.76	7.74	0.65
8,510.0	67.10	93.70	8,338.9	98.3	406.2	407.4	9.47	9.35	-1.61
8,542.0	70.20	93.00	8,350.5	96.5	436.0	437.1	9.90	9.69	-2.19
8,573.0	73.10	92.60	8,360.3	95.1	465.3	466.5	9.43	9.35	-1.29
8,605.0	74.70	90.30	8,369.2	94.3	496.1	497.2	8.53	5.00	-7.19
8,637.0	77.20	88.40	8,376.9	94.7	527.1	528.3	9.71	7.81	-5.94
8,667.0	80.10	87.34	8,382.8	95.8	556.5	557.6	10.28	9.68	-3.55
<b>LP Dorado 34 EH Fed Com #1H</b>									
8,668.0	80.20	87.30	8,383.0	95.8	557.5	558.6	10.28	9.68	-3.51
8,700.0	84.20	88.60	8,387.4	97.0	589.2	590.3	13.13	12.50	4.06
8,757.0	90.70	90.50	8,389.9	97.4	646.1	647.2	11.88	11.40	3.33
8,787.0	91.50	90.50	8,389.3	97.1	676.1	677.2	2.67	2.67	0.00
8,850.0	90.50	90.30	8,388.2	96.7	739.1	740.2	1.62	-1.59	-0.32
8,914.0	88.30	89.80	8,388.9	96.6	803.0	804.2	3.53	-3.44	-0.78
8,977.0	88.30	89.30	8,390.8	97.1	866.0	867.2	0.79	0.00	-0.79
9,040.0	88.10	90.00	8,392.7	97.5	929.0	930.1	1.16	-0.32	1.11
9,103.0	87.80	90.30	8,395.0	97.4	991.9	993.1	0.67	-0.48	0.48
9,167.0	88.50	90.30	8,397.1	97.0	1,055.9	1,057.0	1.09	1.09	0.00
9,230.0	87.60	89.60	8,399.2	97.1	1,118.9	1,120.0	1.81	-1.43	-1.11
9,293.0	87.30	89.30	8,402.0	97.7	1,181.8	1,182.9	0.67	-0.48	-0.48
9,356.0	87.40	89.60	8,404.9	98.3	1,244.7	1,245.9	0.50	0.16	0.48
9,419.0	87.80	89.40	8,407.6	98.8	1,307.7	1,308.8	0.71	0.63	-0.32
9,483.0	88.40	90.50	8,409.7	98.9	1,371.6	1,372.8	1.96	0.94	1.72
9,546.0	88.60	90.30	8,411.3	98.5	1,434.6	1,435.7	0.45	0.32	-0.32
9,609.0	89.00	90.30	8,412.6	98.1	1,497.6	1,498.7	0.63	0.63	0.00
9,672.0	89.30	90.50	8,413.6	97.7	1,560.6	1,561.7	0.57	0.48	0.32
9,736.0	89.10	90.50	8,414.5	97.1	1,624.6	1,625.7	0.31	-0.31	0.00
9,798.0	87.80	90.30	8,416.2	96.7	1,686.6	1,687.6	2.12	-2.10	-0.32
9,862.0	88.00	90.50	8,418.5	96.3	1,750.5	1,751.6	0.44	0.31	0.31
9,925.0	88.50	90.30	8,420.4	95.8	1,813.5	1,814.5	0.85	0.79	-0.32
9,989.0	88.50	90.50	8,422.1	95.4	1,877.5	1,878.5	0.31	0.00	0.31
10,052.0	88.90	90.00	8,423.5	95.1	1,940.4	1,941.5	1.02	0.63	-0.79
10,115.0	88.40	90.30	8,425.0	94.9	2,003.4	2,004.5	0.93	-0.79	0.48
10,210.0	88.10	90.10	8,427.9	94.6	2,098.4	2,099.4	0.38	-0.32	-0.21
10,305.0	88.60	90.10	8,430.6	94.4	2,193.3	2,194.4	0.53	0.53	0.00
10,398.0	89.00	89.80	8,432.6	94.5	2,286.3	2,287.3	0.54	0.43	-0.32
10,493.0	88.50	90.80	8,434.7	94.0	2,381.3	2,382.3	1.18	-0.53	1.05
10,588.0	88.70	90.80	8,437.0	92.7	2,476.3	2,477.2	0.21	0.21	0.00
10,683.0	88.80	90.80	8,439.1	91.4	2,571.2	2,572.2	0.11	0.11	0.00



# Stryker Directional Survey Report



<b>Company:</b> Mewbourne Oil Company	<b>Local Co-ordinate Reference:</b> Well Dorado 34 EH Fed Com #1H Section 34
<b>Project:</b> Eddy County New Mexico	<b>TVD Reference:</b> GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Site:</b> Dorado 34 EH Fed Com #1H	<b>MD Reference:</b> GL 3434 + 20 @ 3454.0usft (Patterson 41)
<b>Well:</b> Dorado 34 EH Fed Com #1H Section 34	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> 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)
10,779.0	89.30	90.70	8,440.7	90.1	2,667.2	2,668.1	0.53	0.52	-0.10
10,875.0	88.20	90.80	8,442.7	88.8	2,763.2	2,764.1	1.15	-1.15	0.10
10,970.0	88.80	90.50	8,445.2	87.8	2,858.1	2,859.0	0.71	0.63	-0.32
11,066.0	88.60	90.10	8,447.4	87.3	2,954.1	2,955.0	0.47	-0.21	-0.42
11,162.0	87.80	91.00	8,450.4	86.3	3,050.1	3,050.9	1.25	-0.83	0.94
11,257.0	88.70	90.70	8,453.3	84.9	3,145.0	3,145.8	1.00	0.95	-0.32
11,353.0	88.90	90.50	8,455.3	83.9	3,241.0	3,241.8	0.29	0.21	-0.21
11,447.0	89.50	90.50	8,456.7	83.1	3,335.0	3,335.7	0.64	0.64	0.00
11,536.0	88.10	91.40	8,458.5	81.6	3,423.9	3,424.7	1.87	-1.57	1.01
11,631.0	89.20	91.00	8,460.8	79.6	3,518.9	3,519.6	1.23	1.16	-0.42
11,727.0	88.00	91.40	8,463.1	77.6	3,614.8	3,615.5	1.32	-1.25	0.42
11,821.0	88.80	91.20	8,465.7	75.5	3,708.8	3,709.4	0.88	0.85	-0.21
11,917.0	87.80	90.70	8,468.6	73.9	3,804.7	3,805.3	1.16	-1.04	-0.52
12,013.0	88.40	90.10	8,471.8	73.2	3,900.6	3,901.3	0.88	0.63	-0.63
12,109.0	87.60	90.70	8,475.1	72.6	3,996.6	3,997.2	1.04	-0.83	0.63
12,204.0	87.70	91.00	8,479.0	71.2	4,091.5	4,092.1	0.33	0.11	0.32
12,300.0	88.50	90.70	8,482.2	69.7	4,187.4	4,188.0	0.89	0.83	-0.31
12,395.0	89.20	90.70	8,484.1	68.6	4,282.4	4,282.9	0.74	0.74	0.00
12,490.0	89.60	90.50	8,485.1	67.6	4,377.4	4,377.9	0.47	0.42	-0.21
12,584.0	88.50	90.70	8,486.6	66.6	4,471.4	4,471.9	1.19	-1.17	0.21
12,679.0	89.00	90.70	8,488.7	65.4	4,566.3	4,566.8	0.53	0.53	0.00
12,773.0	88.90	90.80	8,490.4	64.2	4,660.3	4,660.8	0.15	-0.11	0.11
12,970.0	90.00	90.80	8,492.3	61.5	4,857.3	4,857.7	0.56	0.56	0.00

12970' MD Projected to Bit - PBHL #1 Dorado 34 EH Fed Com #1H

### Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
7,727.0	7,723.1	131.2	15.2	7727' MD VES Gyro Survey
12,970.0	8,492.3	61.5	4,857.3	12970' MD Projected to Bit