

30-015-41952

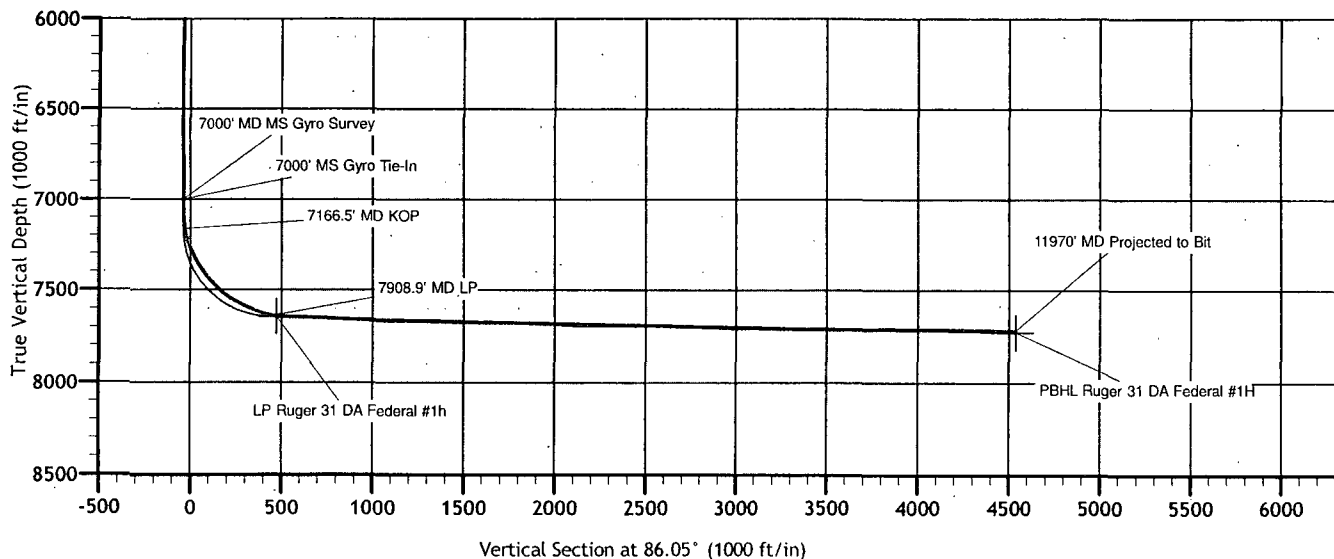
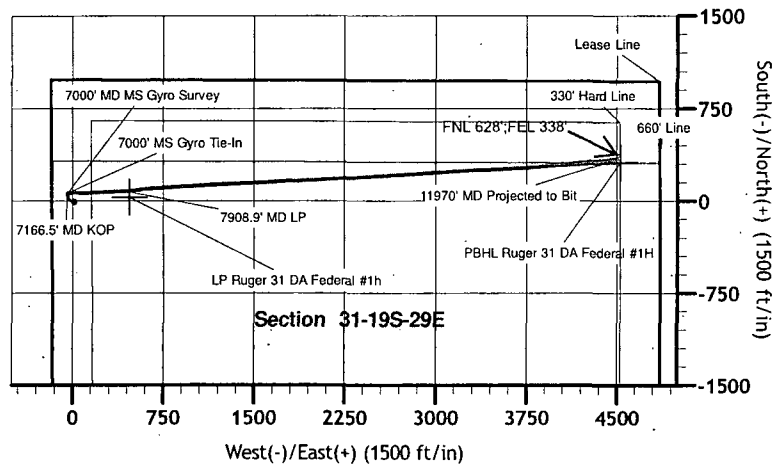
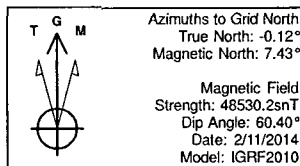


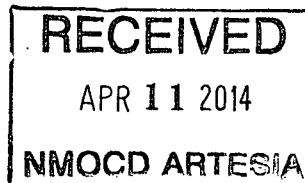
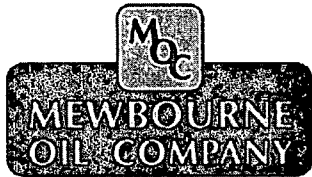
COMPANY: Mewbourne Oil Company
 WELL: Rugers 31 DA Federal #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #45

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.43°

GEODETIC ZONE: New Mexico East 3001							Slot
GL 3298 + 20 @ 3318.0ft (Patterson #45)							
GROUND ELEVATION: 3298.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	179832.51	172341.46	32° 37' 18.607 N	104° 7' 15.022 W		

PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	
1	7000.0	1.03	192.14	6997.0	66.0	-40.9	0.00	0.00	-36.3		
2	7166.5	1.03	192.14	7163.4	63.1	-41.6	0.00	0.00	-37.1		
3	7908.9	88.81	86.77	7643.0	81.3	425.7	12.00	-105.39	430.3		
4	12017.4	88.81	86.77	7728.0	312.9	4526.8	0.00	0.00	4537.6	PBHL Ruger 31 DA Federal #1H	





Mewbourne Oil Company .

Eddy County, New Mexico

Section 31-19S-29E Ruger 31 DA Federal #1H

Rugers 31 DA Federal #1H

Original Hole

Design: Original Hole

Standard Survey Report

12 March, 2014



Stryker Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well:Rugers 31 DA Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Site:	Section 31-19S-29E, Ruger 31 DA Federal #1H	MD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Well:	Rugers 31 DA Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Stryker 1

Project	Eddy County, New Mexico		
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 31-19S-29E, Ruger 31 DA Federal #1H		
Site Position:		Northing:	179,832.52 m
From:	Map	Easting:	172,341.46 m
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	32° 37' 18.607 N
		Longitude:	104° 7' 15.022 W
		Grid Convergence:	0.11 °

Well	Rugers 31 DA Federal #1H		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	0.0 ft
		Latitude:	32° 37' 18.607 N
		Longitude:	104° 7' 15.022 W
		Ground Level:	3,298.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/11/2014	7.54	60.40	48,530

Design	Original Hole			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth/From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	86.05

Survey Program	Date 3/12/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.0	7,000.0	MS Gyro Survey #1 (Original Hole)	GyroFlex	
7,082.0	11,970.0	MWD Survey #2 (Original Hole)	MWD	MWD - Standard

Survey	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.93	39.68	100.0	0.6	0.5	0.6	0.93	0.93	0.00
	200.0	1.04	43.12	200.0	1.9	1.7	1.8	0.12	0.11	3.44
	300.0	1.13	44.87	300.0	3.3	3.0	3.2	0.10	0.09	1.75
	400.0	1.10	44.46	399.9	4.7	4.3	4.7	0.03	-0.03	-0.41
	500.0	1.27	49.10	499.9	6.1	5.9	6.3	0.20	0.17	4.64
	600.0	1.74	61.03	599.9	7.5	8.0	8.5	0.56	0.47	11.93
	700.0	2.09	70.22	699.8	8.9	11.1	11.6	0.46	0.35	9.19
	800.0	2.05	72.69	799.8	10.0	14.5	15.1	0.10	-0.04	2.47
	900.0	1.47	89.80	899.7	10.6	17.5	18.2	0.78	-0.58	17.11



Stryker Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Rugers 31 DA Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Site:	Section 31-19S-29E Rugers 31 DA Federal #1H	MD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Well:	Rugers 31 DA Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Stryker.1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.0	1.25	103.23	999.7	10.3	19.8	20.5	0.39	-0.22	13.43
1,100.0	1.14	118.76	1,099.7	9.6	21.8	22.4	0.34	-0.11	15.53
1,200.0	1.09	139.46	1,199.7	8.4	23.2	23.8	0.40	-0.05	20.70
1,300.0	1.12	147.56	1,299.6	6.8	24.4	24.8	0.16	0.03	8.10
1,400.0	1.13	149.57	1,399.6	5.2	25.4	25.7	0.04	0.01	2.01
1,500.0	1.14	149.28	1,499.6	3.5	26.4	26.6	0.01	0.01	-0.29
1,600.0	1.24	155.52	1,599.6	1.6	27.4	27.4	0.16	0.10	6.24
1,700.0	1.47	173.02	1,699.5	-0.6	28.0	27.9	0.47	0.23	17.50
1,800.0	1.46	177.32	1,799.5	-3.2	28.2	27.9	0.11	-0.01	4.30
1,900.0	1.35	176.58	1,899.5	-5.6	28.3	27.9	0.11	-0.11	-0.74
2,000.0	1.25	186.54	1,999.5	-7.9	28.3	27.7	0.25	-0.10	9.96
2,100.0	1.41	202.46	2,099.4	-10.1	27.7	26.9	0.40	0.16	15.92
2,200.0	1.24	208.92	2,199.4	-12.2	26.7	25.8	0.23	-0.17	6.46
2,300.0	1.12	228.29	2,299.4	-13.8	25.4	24.4	0.41	-0.12	19.37
2,400.0	1.13	242.71	2,399.4	-14.9	23.8	22.7	0.28	0.01	14.42
2,500.0	1.09	243.50	2,499.4	-15.8	22.1	21.0	0.04	-0.04	0.79
2,600.0	0.91	242.89	2,599.3	-16.6	20.5	19.3	0.18	-0.18	-0.61
2,700.0	0.81	241.68	2,699.3	-17.3	19.2	18.0	0.10	-0.10	-1.21
2,800.0	0.79	258.56	2,799.3	-17.7	17.9	16.6	0.24	-0.02	16.88
2,900.0	0.85	255.38	2,899.3	-18.0	16.5	15.2	0.08	0.06	-3.18
3,000.0	0.75	253.16	2,999.3	-18.4	15.2	13.9	0.10	-0.10	-2.22
3,100.0	0.60	251.74	3,099.3	-18.8	14.0	12.7	0.15	-0.15	-1.42
3,200.0	0.59	251.44	3,199.3	-19.1	13.1	11.7	0.01	-0.01	-0.30
3,300.0	0.65	256.25	3,299.3	-19.4	12.0	10.7	0.08	0.06	4.81
3,400.0	0.54	273.12	3,399.3	-19.5	11.0	9.6	0.21	-0.11	16.87
3,500.0	0.62	287.09	3,499.3	-19.3	10.0	8.7	0.16	0.08	13.97
3,600.0	0.65	278.38	3,599.3	-19.1	8.9	7.6	0.10	0.03	-8.71
3,700.0	0.63	277.96	3,699.3	-18.9	7.8	6.5	0.02	-0.02	-0.42
3,800.0	0.58	272.84	3,799.2	-18.8	6.8	5.5	0.07	-0.05	-5.12
3,900.0	0.58	292.99	3,899.2	-18.6	5.8	4.5	0.20	0.00	20.15
4,000.0	0.96	353.64	3,999.2	-17.6	5.3	4.0	0.84	0.38	60.65
4,100.0	0.94	0.17	4,099.2	-15.9	5.2	4.1	0.11	-0.02	6.53
4,200.0	0.98	352.25	4,199.2	-14.3	5.0	4.1	0.14	0.04	-7.92
4,300.0	1.30	322.08	4,299.2	-12.5	4.2	3.4	0.67	0.32	-30.17
4,400.0	1.67	314.37	4,399.2	-10.6	2.5	1.8	0.42	0.37	-7.71
4,500.0	1.91	313.35	4,499.1	-8.4	0.2	-0.3	0.24	0.24	-1.02
4,600.0	1.91	311.09	4,599.1	-6.2	-2.2	-2.6	0.08	0.00	-2.26
4,700.0	1.89	313.94	4,699.0	-4.0	-4.7	-4.9	0.10	-0.02	2.85
4,800.0	1.83	311.86	4,798.9	-1.7	-7.0	-7.1	0.09	-0.06	-2.08
4,900.0	1.74	312.53	4,898.9	0.3	-9.4	-9.3	0.09	-0.09	0.67
5,000.0	1.78	311.96	4,998.9	2.4	-11.6	-11.4	0.04	0.04	-0.57
5,100.0	1.70	309.96	5,098.8	4.4	-13.9	-13.6	0.10	-0.08	-2.00
5,200.0	1.99	308.39	5,198.8	6.4	-16.4	-15.9	0.29	0.29	-1.57



Stryker Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Rutgers 31 DA Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Site:	Section 31-19S-29E Ruger 31 DA Federal #1H	MD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Well:	Rugers 31 DA Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Stryker 1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	2.36	306.22	5,298.7	8.7	-19.4	-18.8	0.38	0.37	-2.17
5,400.0	2.76	311.26	5,398.6	11.5	-22.9	-22.1	0.46	0.40	5.04
5,500.0	2.89	318.90	5,498.5	15.0	-26.4	-25.3	0.40	0.13	7.64
5,600.0	3.16	326.16	5,598.3	19.2	-29.6	-28.2	0.47	0.27	7.26
5,700.0	3.68	338.18	5,698.1	24.5	-32.3	-30.5	0.88	0.52	12.02
5,800.0	3.77	338.28	5,797.9	30.5	-34.7	-32.5	0.09	0.09	0.10
5,900.0	3.63	338.08	5,897.7	36.5	-37.1	-34.5	0.14	-0.14	-0.20
6,000.0	3.65	338.54	5,997.5	42.4	-39.5	-36.4	0.04	0.02	0.46
6,100.0	3.37	343.68	6,097.3	48.2	-41.4	-38.0	0.42	-0.28	5.14
6,200.0	2.66	344.84	6,197.2	53.2	-42.9	-39.1	0.71	-0.71	1.16
6,300.0	2.03	353.67	6,297.1	57.2	-43.7	-39.6	0.72	-0.63	8.83
6,400.0	1.66	2.86	6,397.1	60.5	-43.8	-39.5	0.47	-0.37	9.19
6,500.0	1.21	6.70	6,497.0	62.9	-43.6	-39.2	0.46	-0.45	3.84
6,600.0	1.23	42.21	6,597.0	64.8	-42.8	-38.2	0.74	0.02	35.51
6,700.0	1.37	49.62	6,697.0	66.4	-41.1	-36.5	0.22	0.14	7.41
6,800.0	0.02	33.05	6,797.0	67.1	-40.2	-35.5	1.35	-1.35	-16.57
6,900.0	0.34	244.63	6,897.0	67.0	-40.5	-35.8	0.36	0.32	-148.42
7,000.0	1.03	192.14	6,997.0	66.0	-40.9	-36.3	0.87	0.69	-52.49
7000 MD MS Gyro Survey									
7,082.0	0.60	128.40	7,079.0	65.0	-40.7	-36.2	1.14	-0.52	-77.73
7,114.0	3.10	90.20	7,110.9	64.9	-39.7	-35.2	8.30	7.81	-119.37
7,146.0	6.90	87.60	7,142.8	65.0	-37.0	-32.4	11.89	11.87	-8.12
7,178.0	10.90	84.90	7,174.4	65.4	-32.0	-27.4	12.56	12.50	-8.44
7,210.0	15.10	84.90	7,205.6	66.0	-24.9	-20.2	13.12	13.12	0.00
7,241.0	19.50	86.70	7,235.2	66.7	-15.7	-11.0	14.30	14.19	5.81
7,273.0	22.40	87.80	7,265.1	67.2	-4.2	0.4	9.15	9.06	3.44
7,305.0	25.20	87.80	7,294.3	67.7	8.7	13.3	8.75	8.75	0.00
7,337.0	27.40	90.60	7,323.0	67.9	22.8	27.5	7.89	6.87	8.75
7,369.0	29.70	91.60	7,351.1	67.6	38.1	42.7	7.34	7.19	3.12
7,401.0	32.40	90.90	7,378.6	67.2	54.6	59.1	8.51	8.44	-2.19
7,433.0	36.20	90.80	7,405.0	67.0	72.7	77.1	11.88	11.87	-0.31
7,464.0	38.60	90.80	7,429.6	66.7	91.5	95.9	7.74	7.74	0.00
7,497.0	41.50	90.40	7,454.9	66.5	112.7	117.0	8.82	8.79	-1.21
7,530.0	44.90	88.50	7,478.9	66.7	135.3	139.6	11.03	10.30	-5.76
7,562.0	48.50	87.60	7,500.9	67.5	158.6	162.8	11.43	11.25	-2.81
7,594.0	53.00	86.50	7,521.1	68.8	183.3	187.6	14.31	14.06	-3.44
7,626.0	57.50	86.40	7,539.3	70.4	209.5	213.9	14.06	14.06	-0.31
7,658.0	60.40	86.20	7,555.8	72.2	236.9	241.3	9.08	9.06	-0.62
7,690.0	62.30	86.50	7,571.2	74.0	264.9	269.4	5.99	5.94	0.94
7,723.0	64.70	86.70	7,585.9	75.7	294.4	298.9	7.29	7.27	0.61
7,755.0	67.40	87.10	7,598.9	77.3	323.6	328.2	8.51	8.44	1.25
7,787.0	69.10	87.10	7,610.8	78.8	353.3	357.9	5.31	5.31	0.00
7,819.0	71.30	87.20	7,621.6	80.3	383.4	388.0	6.88	6.87	0.31



Stryker Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Rugers 31 DA Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Site:	Section 31-19S-29E Ruger 31 DA Federal #1H	MD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Well:	Rugers 31 DA Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Stryker.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,851.0	76.00	87.10	7,630.6	81.8	414.0	418.7	14.69	14.69	-0.31
7,883.0	80.10	87.10	7,637.2	83.4	445.3	450.0	12.81	12.81	0.00
7,915.0	84.10	86.50	7,641.6	85.2	476.9	481.6	12.64	12.50	-1.87
7,946.0	87.60	84.00	7,643.9	87.7	507.7	512.6	13.86	11.29	-8.06
8,010.0	89.10	84.10	7,645.7	94.4	571.3	576.5	2.35	2.34	0.16
8,074.0	88.20	85.10	7,647.2	100.4	635.0	640.4	2.10	-1.41	1.56
8,138.0	87.50	86.20	7,649.6	105.2	698.8	704.4	2.04	-1.09	1.72
8,203.0	87.00	86.70	7,652.7	109.3	763.6	769.3	1.09	-0.77	0.77
8,267.0	87.90	86.50	7,655.6	113.1	827.4	833.3	1.44	1.41	-0.31
8,331.0	87.50	86.20	7,658.1	117.1	891.3	897.2	0.78	-0.62	-0.47
8,396.0	86.50	86.00	7,661.6	121.5	956.0	962.1	1.57	-1.54	-0.31
8,460.0	88.80	86.70	7,664.2	125.6	1,019.8	1,026.1	3.76	3.59	1.09
8,524.0	89.40	86.50	7,665.2	129.4	1,083.7	1,090.0	0.99	0.94	-0.31
8,589.0	90.40	86.50	7,665.3	133.4	1,148.6	1,155.0	1.54	1.54	0.00
8,653.0	89.20	87.20	7,665.5	136.9	1,212.5	1,219.0	2.17	-1.87	1.09
8,718.0	87.70	88.50	7,667.3	139.3	1,277.4	1,284.0	3.05	-2.31	2.00
8,782.0	88.30	88.30	7,669.5	141.1	1,341.3	1,347.9	0.99	0.94	-0.31
8,846.0	88.40	87.90	7,671.4	143.2	1,405.3	1,411.8	0.64	0.16	-0.62
8,911.0	88.90	87.60	7,672.9	145.8	1,470.2	1,476.8	0.90	0.77	-0.46
8,974.0	89.40	87.00	7,673.8	148.8	1,533.1	1,539.7	1.24	0.79	-0.95
9,040.0	90.00	86.50	7,674.2	152.5	1,599.0	1,605.7	1.18	0.91	-0.76
9,104.0	90.00	86.50	7,674.2	156.4	1,662.9	1,669.7	0.00	0.00	0.00
9,167.0	89.20	86.50	7,674.6	160.3	1,725.8	1,732.7	1.27	-1.27	0.00
9,262.0	87.90	87.90	7,677.0	164.9	1,820.6	1,827.7	2.01	-1.37	1.47
9,357.0	87.80	87.60	7,680.6	168.6	1,915.5	1,922.6	0.33	-0.11	-0.32
9,452.0	86.90	87.40	7,685.0	172.8	2,010.3	2,017.4	0.97	-0.95	-0.21
9,550.0	88.20	86.90	7,689.2	177.6	2,108.1	2,115.3	1.42	1.33	-0.51
9,646.0	89.80	87.20	7,690.8	182.6	2,204.0	2,211.3	1.70	1.67	0.31
9,743.0	89.90	86.70	7,691.1	187.7	2,300.8	2,308.3	0.53	0.10	-0.52
9,840.0	89.80	86.50	7,691.3	193.5	2,397.6	2,405.3	0.23	-0.10	-0.21
9,935.0	89.60	86.70	7,691.8	199.1	2,492.5	2,500.3	0.30	-0.21	0.21
10,031.0	89.00	86.40	7,693.0	204.9	2,588.3	2,596.3	0.70	-0.62	-0.31
10,126.0	88.50	86.50	7,695.1	210.8	2,683.1	2,691.2	0.54	-0.53	0.11
10,221.0	87.70	86.00	7,698.2	217.0	2,777.8	2,786.2	0.99	-0.84	-0.53
10,317.0	88.50	86.40	7,701.4	223.3	2,873.6	2,882.1	0.93	0.83	0.42
10,412.0	88.20	86.40	7,704.1	229.3	2,968.3	2,977.1	0.32	-0.32	0.00
10,506.0	89.50	86.50	7,706.0	235.1	3,062.1	3,071.1	1.39	1.38	0.11
10,601.0	88.80	86.20	7,707.4	241.2	3,156.9	3,166.1	0.80	-0.74	-0.32
10,696.0	89.30	86.90	7,709.0	246.9	3,251.8	3,261.0	0.91	0.53	0.74
10,791.0	88.80	86.50	7,710.6	252.4	3,346.6	3,356.0	0.67	-0.53	-0.42
10,887.0	89.60	87.40	7,711.9	257.5	3,442.4	3,452.0	1.25	0.83	0.94
10,982.0	89.60	87.60	7,712.6	261.6	3,537.3	3,547.0	0.21	0.00	0.21
11,077.0	90.30	87.20	7,712.7	265.9	3,632.2	3,641.9	0.85	0.74	-0.42
11,173.0	90.40	86.90	7,712.1	270.9	3,728.1	3,737.9	0.33	0.10	-0.31



Stryker Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well:Rugers 31 DA Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Site:	Section 31-19S-29E Ruger 31 DA Federal #1H	MD Reference:	GL 3298 + 20 @ 3318.0ft (Patterson #45)
Well:	Rugers 31 DA Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Stryker 1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,268.0	89.90	86.00	7,711.8	276.7	3,822.9	3,832.9	1.08	-0.53	-0.95
11,363.0	88.90	84.20	7,712.8	284.8	3,917.6	3,927.9	2.17	-1.05	-1.89
11,458.0	89.80	84.10	7,713.9	294.5	4,012.1	4,022.8	0.95	0.95	-0.11
11,554.0	90.40	84.20	7,713.7	304.3	4,107.6	4,118.8	0.63	0.62	0.10
11,649.0	88.60	84.80	7,714.6	313.4	4,202.1	4,213.7	2.00	-1.89	0.63
11,744.0	89.00	85.00	7,716.6	321.9	4,296.7	4,308.7	0.47	0.42	0.21
11,840.0	88.80	84.50	7,718.4	330.6	4,392.3	4,404.7	0.56	-0.21	-0.52
11,911.0	88.40	81.60	7,720.1	339.2	4,462.8	4,475.5	4.12	-0.56	-4.08
11,970.0	88.40	81.60	7,721.8	347.8	4,521.1	4,534.3	0.00	0.00	0.00
11970' MD Projected to Bit									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,000.0	6,997.0	66.0	-40.9	7000' MD MS Gyro Survey
11,970.0	7,721.8	347.8	4,521.1	11970' MD Projected to Bit