

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
Glock 17 LI Federal 1H
EDDY

045-0104

STATE OF NEW MEXICO
DEVIATION REPORT

30 015 42115

420	0.50
835	4.35
925	3.55
1,002	3.15
1,179	2.39
1,410	1.86
1,857	0.90
2,333	0.46
2,778	2.06
3,008	1.78
3,452	0.81
3,866	1.09
4,279	0.59
4,723	1.04
5,168	1.04
5,613	0.68
6,058	1.06
6,503	1.15
6,820	1.12

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 17 2014

RECEIVED

BY: Daisy Carrillo

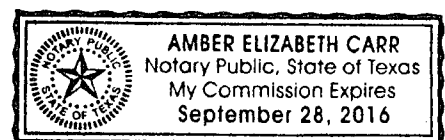
STATE OF TEXAS

COUNTY OF MIDLAND

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

5/22/14, by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:





COMPANY: Mewbourne Oil Company
 WELL: Glock 17 LI Federal #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #45

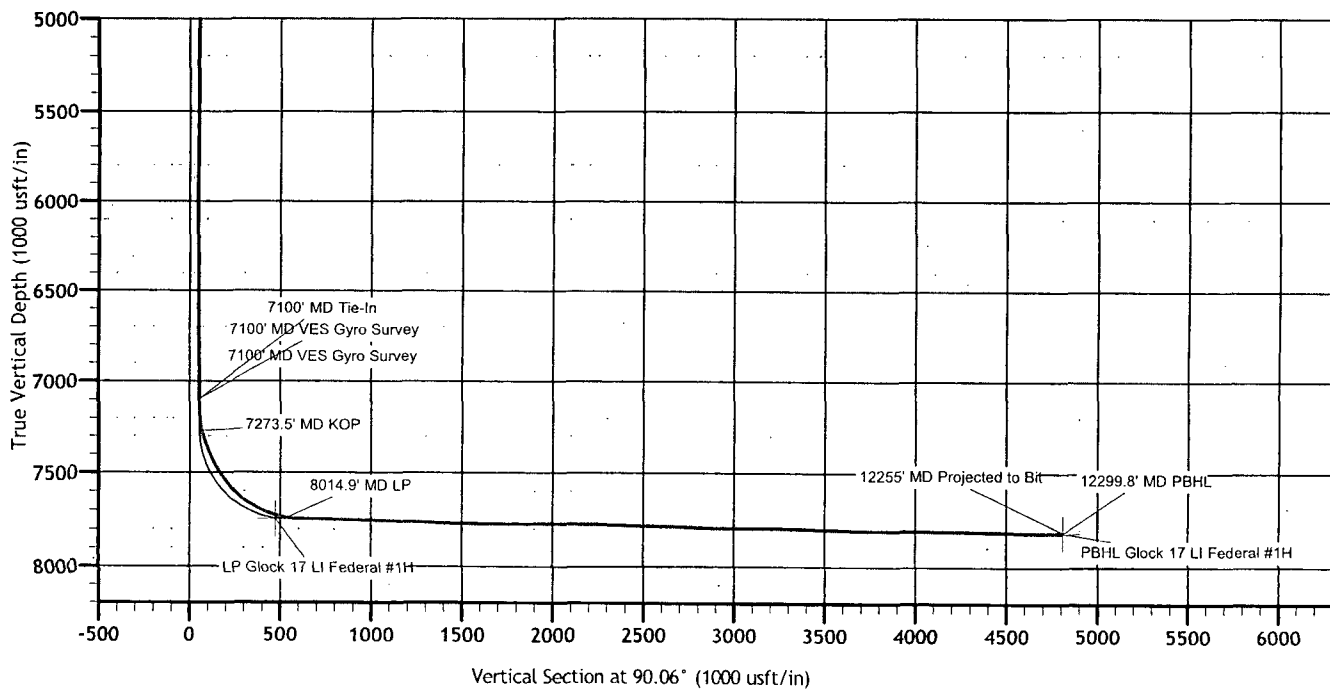
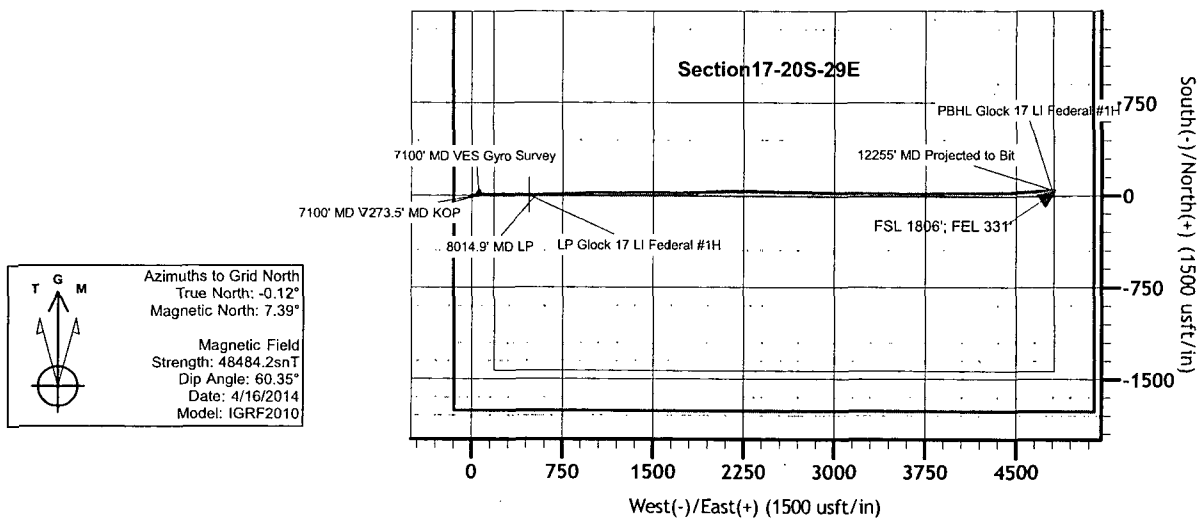


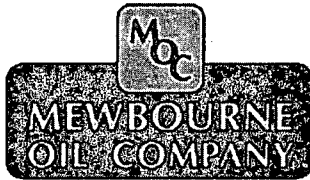
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.39°

OFFICE: 936.582.7296

GEODEIC ZONE: New Mexico East 3001					
GL 3278 + 20 @ 3298.0usft (Patterson #45)					
GROUND ELEVATION: 3278.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	571502.80	570403.30	32° 34' 15.457 N	104° 6' 17.261 W
Slot					

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	7100.0	0.54	169.61	7097.9	3.7	55.5	0.00	0.00	55.5	
2	7273.5	0.54	169.61	7271.4	2.1	55.8	0.00	0.00	55.8	
3	8014.9	89.06	90.04	7748.0	-2.5	525.5	12.00	-79.58	525.5	
4	12299.8	89.06	90.04	7818.0	-5.4	4809.8	0.00	0.00	4809.8	PBHL Glock 17 LI Federal #1H





Mewbourne Oil Company .

Eddy County, New Mexico

Section 17-20S-29E Glock 17 LI Federal #1H

Glock 17 LI Federal #1H

Original Hole

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 17 2014

Design: Original Hole

RECEIVED

Standard Survey Report

08 May, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Glock 17 LI Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3278 +20 @ 3298'0usft (Patterson #45)
Site:	Section 17-20S-29E Glock 17 LI Federal #1H	MD Reference:	GL 3278 +20 @ 3298'0usft (Patterson #45)
Well:	Glock 17 LI Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker EDM

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 17-20S-29E Glock 17 LI Federal #1H		
Site Position:		Northing:	571,502.80 usft
From:	Map	Easting:	570,403.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 34' 15.457 N
		Longitude:	104° 6' 17.261 W
		Grid Convergence:	0.12 °

Well	Glock 17 LI Federal #1H		
Well Position	+N/-S	0.0 usft	Northing: 571,502.80 usft
	+E/-W	0.0 usft	Easting: 570,403.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 34' 15.457 N
		Longitude:	104° 6' 17.261 W
		Ground Level:	3,278.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	4/16/2014	(°) 7.51
			Dip Angle (°) 60.35
			Field Strength (nT) 48,484

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°) 90.04

Survey Program	Date: 5/8/2014		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	7,100.0	VES Gyro Survey #1 (Original Hole)	MWD
7,159.0	12,255.0	MWD Survey #2 (Original Hole)	MWD
			Description
			MWD - Standard
			MWD - Standard

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(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	0.48	181.85	100.0	-0.4	0.0	0.0	0.48	0.48	0.00
200.0	0.84	165.13	200.0	-1.5	0.2	0.2	0.40	0.36	-16.72
300.0	1.21	146.26	300.0	-3.1	0.9	0.9	0.50	0.37	-18.87
400.0	0.68	98.20	400.0	-4.1	2.1	2.1	0.91	-0.53	-48.06
500.0	0.79	26.02	500.0	-3.6	3.0	3.0	0.87	0.11	-72.18
600.0	1.23	43.88	599.9	-2.2	4.0	4.0	0.54	0.44	17.86
700.0	2.90	72.88	699.9	-0.6	7.2	7.2	1.92	1.67	29.00
800.0	3.92	93.49	799.7	-0.1	13.0	13.0	1.58	1.02	20.61
900.0	4.00	93.55	899.5	-0.5	19.9	19.9	0.08	0.08	0.06



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17-LI Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3278 +20 @ 3298.0usft (Patterson #45)
Site:	Section 17-20S-29E Glock 17-LI Federal #1H	MD Reference:	GL 3278 +20 @ 3298.0usft (Patterson #45)
Well:	Glock 17-LI Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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	3.27	93.57	999.3	-0.9	26.3	26.3	0.73	-0.73	0.02
1,100.0	2.79	89.44	1,099.1	-1.1	31.5	31.5	0.53	-0.48	-4.13
1,200.0	2.49	77.57	1,199.0	-0.6	36.1	36.1	0.62	-0.30	-11.87
1,300.0	1.93	77.38	1,298.9	0.2	39.9	39.9	0.56	-0.56	-0.19
1,400.0	1.96	74.39	1,398.9	1.1	43.1	43.1	0.11	0.03	-2.99
1,500.0	1.48	82.22	1,498.8	1.7	46.1	46.1	0.53	-0.48	7.83
1,600.0	1.00	97.28	1,598.8	1.8	48.2	48.2	0.58	-0.48	15.06
1,700.0	0.48	55.87	1,698.8	1.9	49.4	49.4	0.71	-0.52	-41.41
1,800.0	0.96	22.12	1,798.8	2.9	50.1	50.1	0.62	0.48	-33.75
1,900.0	0.82	25.23	1,898.8	4.3	50.7	50.7	0.15	-0.14	3.11
2,000.0	0.71	33.86	1,998.8	5.5	51.4	51.4	0.16	-0.11	8.63
2,100.0	0.49	37.48	2,098.8	6.3	52.0	52.0	0.22	-0.22	3.62
2,200.0	0.51	70.77	2,198.8	6.8	52.7	52.6	0.29	0.02	33.29
2,300.0	0.42	147.39	2,298.8	6.7	53.3	53.3	0.58	-0.09	76.62
2,400.0	0.03	13.25	2,398.8	6.4	53.5	53.5	0.44	-0.39	-134.14
2,500.0	0.46	71.28	2,498.8	6.5	53.9	53.9	0.44	0.43	58.03
2,600.0	1.14	44.69	2,598.8	7.4	54.9	54.9	0.76	0.68	-26.59
2,700.0	2.14	36.36	2,698.7	9.6	56.7	56.7	1.03	1.00	-8.33
2,800.0	2.22	29.39	2,798.6	12.8	58.8	58.8	0.28	0.08	-6.97
2,900.0	2.15	9.60	2,898.6	16.3	60.1	60.1	0.75	-0.07	-19.79
3,000.0	1.83	5.47	2,998.5	19.8	60.5	60.5	0.35	-0.32	-4.13
3,100.0	1.54	4.39	3,098.5	22.7	60.8	60.8	0.29	-0.29	-1.08
3,200.0	1.33	16.12	3,198.4	25.1	61.2	61.2	0.36	-0.21	11.73
3,300.0	0.92	4.93	3,298.4	27.1	61.6	61.6	0.46	-0.41	-11.19
3,400.0	0.93	348.82	3,398.4	28.6	61.5	61.5	0.26	0.01	-16.11
3,500.0	1.07	351.74	3,498.4	30.4	61.2	61.2	0.15	0.14	2.92
3,600.0	0.88	337.74	3,598.4	32.0	60.8	60.8	0.30	-0.19	-14.00
3,700.0	0.75	335.27	3,698.4	33.3	60.2	60.2	0.13	-0.13	-2.47
3,800.0	0.74	328.22	3,798.4	34.5	59.6	59.6	0.09	-0.01	-7.05
3,900.0	0.63	335.27	3,898.3	35.5	59.0	59.0	0.14	-0.11	7.05
4,000.0	0.80	337.40	3,998.3	36.6	58.5	58.5	0.17	0.17	2.13
4,100.0	0.95	7.13	4,098.3	38.1	58.4	58.4	0.47	0.15	29.73
4,200.0	0.09	117.87	4,198.3	38.9	58.6	58.5	0.99	-0.86	110.74
4,300.0	0.26	76.56	4,298.3	38.9	58.8	58.8	0.20	0.17	-41.31
4,400.0	0.08	65.17	4,398.3	39.0	59.1	59.1	0.18	-0.18	-11.39
4,500.0	0.27	223.74	4,498.3	38.9	59.0	59.0	0.35	0.19	158.57
4,600.0	0.50	214.14	4,598.3	38.3	58.6	58.6	0.24	0.23	-9.60
4,700.0	0.43	227.08	4,698.3	37.7	58.1	58.1	0.13	-0.07	12.94
4,800.0	1.08	220.18	4,798.3	36.7	57.2	57.2	0.66	0.65	-6.90
4,900.0	0.95	200.78	4,898.3	35.2	56.3	56.3	0.37	-0.13	-19.40
5,000.0	1.02	225.08	4,998.3	33.8	55.4	55.4	0.42	0.07	24.30
5,100.0	1.21	221.36	5,098.3	32.4	54.1	54.0	0.20	0.19	-3.72
5,200.0	0.94	210.36	5,198.2	30.9	53.0	52.9	0.34	-0.27	-11.00



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17 LI Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3278 +20 @ 3298.0usft (Patterson #45)
Site:	Section 17-20S-29E Glock 17 LI Federal #1H	MD Reference:	GL 3278 +20 @ 3298.0usft (Patterson #45)
Well:	Glock 17 LI Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker EDM

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	0.98	218.94	5,298.2	29.5	52.0	52.0	0.15	0.04	8.58
5,400.0	0.77	180.97	5,398.2	28.2	51.5	51.4	0.60	-0.21	-37.97
5,500.0	0.43	223.75	5,498.2	27.3	51.2	51.2	0.54	-0.34	42.78
5,600.0	0.30	228.20	5,598.2	26.8	50.7	50.7	0.13	-0.13	4.45
5,700.0	0.87	238.44	5,698.2	26.2	49.9	49.9	0.58	0.57	10.24
5,800.0	0.86	216.21	5,798.2	25.2	48.8	48.8	0.33	-0.01	-22.23
5,900.0	1.34	200.90	5,898.2	23.5	47.9	47.9	0.56	0.48	-15.31
6,000.0	1.39	175.97	5,998.1	21.2	47.6	47.6	0.59	0.05	-24.93
6,100.0	1.20	172.99	6,098.1	19.0	47.8	47.8	0.20	-0.19	-2.98
6,200.0	0.68	175.47	6,198.1	17.4	48.0	48.0	0.52	-0.52	2.48
6,300.0	0.68	152.96	6,298.1	16.2	48.3	48.3	0.27	0.00	-22.51
6,400.0	0.91	137.36	6,398.1	15.1	49.1	49.1	0.31	0.23	-15.60
6,500.0	1.15	163.68	6,498.1	13.6	49.9	49.9	0.52	0.24	26.32
6,600.0	1.46	167.77	6,598.0	11.4	50.5	50.5	0.32	0.31	4.09
6,700.0	1.37	157.47	6,698.0	9.0	51.2	51.2	0.27	-0.09	-10.30
6,800.0	1.37	135.77	6,798.0	7.1	52.5	52.5	0.52	0.00	-21.70
6,900.0	1.27	123.72	6,898.0	5.6	54.3	54.3	0.29	-0.10	-12.05
7,000.0	0.47	161.60	6,998.0	4.6	55.3	55.3	0.94	-0.80	37.88
7,100.0	0.54	169.61	7,097.9	3.7	55.5	55.5	0.10	0.07	8.01
7100' MD VES Gyro Survey									
7,174.0	0.60	121.10	7,171.9	3.2	55.9	55.9	0.64	0.08	-65.55
7,205.0	4.30	88.80	7,202.9	3.1	57.2	57.2	12.28	11.94	-104.19
7,237.0	9.40	85.40	7,234.7	3.4	61.0	61.0	15.98	15.94	-10.63
7,269.0	13.60	82.60	7,266.0	4.1	67.4	67.4	13.24	13.13	-8.75
7,301.0	15.80	83.20	7,297.0	5.1	75.4	75.4	6.89	6.88	1.88
7,332.0	18.30	85.60	7,326.6	5.9	84.5	84.5	8.38	8.06	7.74
7,364.0	21.30	87.00	7,356.7	6.6	95.3	95.3	9.49	9.38	4.38
7,396.0	23.40	89.00	7,386.3	7.0	107.4	107.4	6.98	6.56	6.25
7,428.0	25.10	90.20	7,415.5	7.1	120.6	120.6	5.53	5.31	3.75
7,460.0	27.40	90.90	7,444.2	7.0	134.7	134.7	7.25	7.19	2.19
7,492.0	30.60	91.20	7,472.2	6.7	150.2	150.2	10.01	10.00	0.94
7,523.0	34.40	90.50	7,498.3	6.5	166.9	166.9	12.32	12.26	-2.26
7,555.0	37.50	88.40	7,524.2	6.6	185.7	185.7	10.42	9.69	-6.56
7,587.0	38.80	87.90	7,549.4	7.3	205.4	205.4	4.18	4.06	-1.56
7,619.0	40.30	88.10	7,574.0	8.0	225.8	225.8	4.70	4.69	0.63
7,650.0	43.00	88.80	7,597.2	8.6	246.4	246.4	8.84	8.71	2.26
7,682.0	47.60	90.00	7,619.7	8.8	269.1	269.1	14.62	14.38	3.75
7,714.0	53.50	91.80	7,640.0	8.4	293.8	293.8	18.94	18.44	5.63
7,746.0	58.10	92.80	7,658.0	7.3	320.3	320.3	14.61	14.38	3.13
7,777.0	60.60	93.20	7,673.8	5.9	346.9	346.9	8.14	8.06	1.29
7,809.0	63.50	93.20	7,688.8	4.3	375.1	375.1	9.06	9.06	0.00
7,841.0	66.70	93.20	7,702.3	2.7	404.1	404.1	10.00	10.00	0.00
7,873.0	70.00	91.60	7,714.1	1.5	433.8	433.8	11.31	10.31	-5.00



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Glock 17 LI Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3278 + 20 @ 3298'0usft (Patterson #45)
Site:	Section 17-20S-29E Glock 17 LI Federal #1H	MD Reference:	GL 3278 + 20 @ 3298'0usft (Patterson #45)
Well:	Glock 17 LI Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker EDM

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)
7,904.0	73.10	89.80	7,723.9	1.1	463.2	463.2	11.42	10.00	-5.81
7,918.9	74.68	89.24	7,728.0	1.2	477.5	477.5	11.22	10.62	-3.78
LP Glock 17 LI Federal #1H									
7,936.0	76.50	88.60	7,732.3	1.6	494.1	494.1	11.22	10.63	-3.72
7,968.0	79.70	87.50	7,738.9	2.6	525.4	525.4	10.55	10.00	-3.44
8,000.0	83.20	87.40	7,743.6	4.0	557.0	557.0	10.94	10.94	-0.31
8,025.0	86.60	88.20	7,745.9	5.0	581.8	581.8	13.97	13.60	3.20
8,057.0	89.60	88.60	7,746.9	5.9	613.8	613.8	9.46	9.38	1.25
8,120.0	90.20	88.40	7,747.0	7.5	676.8	676.8	1.00	0.95	-0.32
8,184.0	89.50	88.80	7,747.2	9.1	740.8	740.8	1.26	-1.09	0.63
8,247.0	88.70	88.20	7,748.2	10.7	803.7	803.7	1.59	-1.27	-0.95
8,308.0	89.20	87.50	7,749.3	13.0	864.7	864.7	1.41	0.82	-1.15
8,372.0	88.80	88.20	7,750.4	15.4	928.6	928.6	1.26	-0.63	1.09
8,435.0	88.10	89.70	7,752.1	16.6	991.6	991.6	2.63	-1.11	2.38
8,499.0	87.80	90.00	7,754.4	16.7	1,055.6	1,055.5	0.66	-0.47	0.47
8,562.0	87.60	89.70	7,757.0	16.9	1,118.5	1,118.5	0.57	-0.32	-0.48
8,626.0	87.90	89.50	7,759.5	17.4	1,182.5	1,182.4	0.56	0.47	-0.31
8,721.0	88.00	89.00	7,762.9	18.6	1,277.4	1,277.4	0.54	0.11	-0.53
8,817.0	87.80	90.20	7,766.4	19.3	1,373.3	1,373.3	1.27	-0.21	1.25
8,912.0	88.30	90.70	7,769.6	18.5	1,468.3	1,468.2	0.74	0.53	0.53
9,007.0	89.70	90.40	7,771.3	17.6	1,563.2	1,563.2	1.51	1.47	-0.32
9,102.0	89.90	89.70	7,771.6	17.5	1,658.2	1,658.2	0.77	0.21	-0.74
9,198.0	90.20	88.40	7,771.5	19.1	1,754.2	1,754.2	1.39	0.31	-1.35
9,293.0	90.40	87.50	7,771.0	22.5	1,849.2	1,849.1	0.97	0.21	-0.95
9,388.0	89.90	87.40	7,770.8	26.7	1,944.1	1,944.0	0.54	-0.53	-0.11
9,484.0	90.10	88.40	7,770.8	30.3	2,040.0	2,040.0	1.06	0.21	1.04
9,579.0	89.00	90.00	7,771.5	31.6	2,135.0	2,135.0	2.04	-1.16	1.68
9,674.0	89.50	89.50	7,772.8	32.0	2,230.0	2,229.9	0.74	0.53	-0.53
9,770.0	87.80	91.10	7,775.0	31.5	2,325.9	2,325.9	2.43	-1.77	1.67
9,865.0	88.10	90.90	7,778.4	29.8	2,420.9	2,420.8	0.38	0.32	-0.21
9,960.0	88.80	91.10	7,781.0	28.2	2,515.8	2,515.8	0.77	0.74	0.21
10,056.0	89.00	91.20	7,782.8	26.3	2,611.8	2,611.8	0.23	0.21	0.10
10,151.0	88.50	90.90	7,784.9	24.5	2,706.7	2,706.7	0.61	-0.53	-0.32
10,245.0	87.70	90.00	7,788.0	23.8	2,800.7	2,800.7	1.28	-0.85	-0.96
10,341.0	88.30	90.90	7,791.4	23.0	2,896.6	2,896.6	1.13	0.63	0.94
10,437.0	89.80	91.40	7,793.0	21.1	2,992.6	2,992.6	1.65	1.56	0.52
10,532.0	90.50	91.10	7,792.7	19.0	3,087.6	3,087.5	0.80	0.74	-0.32
10,627.0	89.20	91.20	7,793.0	17.1	3,182.5	3,182.5	1.37	-1.37	0.11
10,722.0	89.80	90.90	7,793.8	15.4	3,277.5	3,277.5	0.71	0.63	-0.32
10,818.0	88.90	91.20	7,794.9	13.6	3,373.5	3,373.5	0.99	-0.94	0.31
10,913.0	87.60	90.70	7,797.8	12.1	3,468.4	3,468.4	1.47	-1.37	-0.53
11,008.0	87.60	90.40	7,801.8	11.1	3,563.3	3,563.3	0.32	0.00	-0.32
11,104.0	89.30	89.70	7,804.4	11.1	3,659.3	3,659.3	1.91	1.77	-0.73
11,199.0	89.30	89.10	7,805.5	12.1	3,754.3	3,754.3	0.63	0.00	-0.63



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Glock 17, LI Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3278 + 20 @ 3298.0usft (Patterson #45)
Site:	Section 17-20S-29E Glock 17, LI Federal #1H	MD Reference:	GL 3278 + 20 @ 3298.0usft (Patterson #45)
Well:	Glock 17, LI Federal #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)
11,294.0	89.90	88.60	7,806.2	14.0	3,849.3	3,849.3	0.82	0.63	-0.53
11,389.0	90.20	88.20	7,806.1	16.6	3,944.2	3,944.2	0.53	0.32	-0.42
11,484.0	89.60	90.00	7,806.3	18.1	4,039.2	4,039.2	2.00	-0.63	1.89
11,580.0	89.30	90.20	7,807.2	17.9	4,135.2	4,135.2	0.38	-0.31	0.21
11,676.0	89.30	89.70	7,808.4	18.0	4,231.2	4,231.2	0.52	0.00	-0.52
11,771.0	89.30	89.50	7,809.5	18.7	4,326.2	4,326.2	0.21	0.00	-0.21
11,866.0	88.90	88.40	7,811.0	20.4	4,421.2	4,421.1	1.23	-0.42	-1.16
11,961.0	88.70	87.40	7,813.0	23.9	4,516.1	4,516.1	1.07	-0.21	-1.05
12,057.0	88.50	86.50	7,815.4	29.0	4,611.9	4,611.9	0.96	-0.21	-0.94
12,152.0	90.80	87.00	7,815.9	34.4	4,706.8	4,706.7	2.48	2.42	0.53
12,199.0	91.50	86.70	7,815.0	37.0	4,753.7	4,753.6	1.62	1.49	-0.64
12,252.5	91.50	86.70	7,813.6	40.1	4,807.1	4,807.0	0.00	0.00	0.00
PBHL Glock 17, LI Federal #1H									
12,255.0	91.50	86.70	7,813.5	40.2	4,809.6	4,809.5	0.00	0.00	0.00
12255' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,100.0	7,097.9	3.7	55.5	7100' MD VES Gyro Survey
12,255.0	7,813.5	40.2	4,809.6	12255' MD Projected to Bit



June 5, 2014

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 17 2014

RECEIVED

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

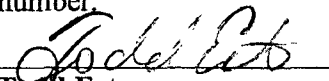
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Glock 17 LI Federal #001H
WC-015 G-04 S202920D; Bone Spring
Eddy County, New Mexico
API# 30-015-42115

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Don May	Original Hole	7,142 ft. to 12,199 ft.	04-30-14 to 05-08-14	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEManRD\Mewbourne Oil Company\Glock 17 LI Fed #1H\M141095

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



June 5, 2014

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 17 2014

Survey Certification Report

RECEIVED

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of April 30, 2014 thru May 08, 2014, conduct or supervise the taking of a SEDS MWD Survey from a depth of 7,142 feet to 12,199 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Glock 17 LI Federal #001H well, API # **30-015-42115** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



Job Number: M141095
 Company: Mewbourne Oil Company
 Lease/Well: Glock 17 LI Federal # 1 H
 Location: Eddy County
 Rig Name: Patterson Rig # 45
 RKB: N/A
 G.L. or M.S.L.: N/A

State/Country: New Mexico / USA
 Declination: 7.39° Corrected to Grid
 Grid: 7.39°
 File name: C:\WINSERVE\DOCS\M141095.SVY
 Date/Time: 04-Jun-14 / 09:56
 Curve Name: SES MWD SURVEY RAN ON 4-30-14

Stryker Energy Directional Services, LLC.

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 90.06
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
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Tie-In Data Provided by MS Gyro Survey

7100.00	.54	169.61	7097.95	3.73	55.53	55.53	55.66	86.16	.00
7142.00	.30	158.40	7139.95	3.43	55.61	55.60	55.71	86.47	.60
7174.00	.60	121.10	7171.95	3.27	55.78	55.78	55.88	86.65	1.26
7205.00	4.30	88.80	7202.91	3.21	57.08	57.08	57.17	86.78	12.28
7237.00	9.40	85.40	7234.68	3.44	60.89	60.88	60.99	86.76	15.98
7269.00	13.60	82.60	7266.03	4.14	67.23	67.22	67.35	86.48	13.24
7301.00	15.80	83.20	7296.98	5.14	75.28	75.28	75.46	86.10	6.89
7332.00	18.30	85.60	7326.61	6.01	84.33	84.32	84.54	85.92	8.38
7364.00	21.30	87.00	7356.72	6.70	95.15	95.14	95.38	85.97	9.49
7396.00	23.40	89.00	7386.31	7.12	107.30	107.30	107.54	86.21	6.98
7428.00	25.10	90.20	7415.49	7.20	120.45	120.44	120.66	86.58	5.53
7460.00	27.40	90.90	7444.19	7.06	134.60	134.59	134.78	87.00	7.25
7492.00	30.60	91.20	7472.17	6.78	150.11	150.10	150.26	87.41	10.01
7523.00	34.40	90.50	7498.31	6.54	166.76	166.75	166.89	87.76	12.32
7555.00	37.50	88.40	7524.21	6.73	185.54	185.53	185.66	87.92	10.42
7587.00	38.80	87.90	7549.38	7.37	205.29	205.29	205.43	87.94	4.18
7619.00	40.30	88.10	7574.05	8.08	225.66	225.65	225.80	87.95	4.70
7650.00	43.00	88.80	7597.21	8.63	246.25	246.24	246.40	87.99	8.84
7682.00	47.60	90.00	7619.72	8.86	268.99	268.98	269.13	88.11	14.62
7714.00	53.50	91.80	7640.04	8.46	293.68	293.67	293.80	88.35	18.94
7746.00	58.10	92.80	7658.02	7.39	320.12	320.11	320.20	88.68	14.61
7777.00	60.60	93.20	7673.83	5.99	346.75	346.74	346.80	89.01	8.14
7809.00	63.50	93.20	7688.82	4.42	374.97	374.96	375.00	89.33	9.06
7841.00	66.70	93.20	7702.29	2.80	403.95	403.94	403.96	89.60	10.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7873.00	70.00	91.60	7714.10	1.55	433.66	433.66	433.66	89.79	11.31
7904.00	73.10	89.80	7723.91	1.20	463.06	463.06	463.06	89.85	11.42
7936.00	76.50	88.60	7732.30	1.63	493.93	493.93	493.93	89.81	11.22
7968.00	79.70	87.50	7738.90	2.70	525.22	525.22	525.23	89.71	10.55
8000.00	83.20	87.40	7743.65	4.11	556.83	556.82	556.84	89.58	10.94
8025.00	86.60	88.20	7745.88	5.06	581.71	581.70	581.73	89.50	13.97
8057.00	89.60	88.60	7746.94	5.96	613.67	613.66	613.70	89.44	9.46
8120.00	90.20	88.40	7747.05	7.61	676.65	676.64	676.69	89.36	1.00
8184.00	89.50	88.80	7747.21	9.17	740.63	740.62	740.69	89.29	1.26
8247.00	88.70	88.20	7748.20	10.82	803.60	803.59	803.67	89.23	1.59
8308.00	89.20	87.50	7749.32	13.11	864.55	864.53	864.65	89.13	1.41
8372.00	88.80	88.20	7750.44	15.51	928.49	928.47	928.62	89.04	1.26
8435.00	88.10	89.70	7752.14	16.66	991.45	991.44	991.59	89.04	2.63
8499.00	87.80	90.00	7754.43	16.83	1055.41	1055.40	1055.55	89.09	.66
8562.00	87.60	89.70	7756.96	16.99	1118.36	1118.34	1118.49	89.13	.57
8626.00	87.90	89.50	7759.47	17.44	1182.31	1182.29	1182.44	89.15	.56
8721.00	88.00	89.00	7762.87	18.68	1277.24	1277.22	1277.38	89.16	.54
8817.00	87.80	90.20	7766.39	19.35	1373.17	1373.15	1373.31	89.19	1.27
8912.00	88.30	90.70	7769.62	18.61	1468.11	1468.09	1468.23	89.27	.74
9007.00	89.70	90.40	7771.28	17.69	1563.09	1563.07	1563.19	89.35	1.51
9102.00	89.90	89.70	7771.61	17.61	1658.09	1658.07	1658.19	89.39	.77
9198.00	90.20	88.40	7771.53	19.20	1754.08	1754.06	1754.18	89.37	1.39
9293.00	90.40	87.50	7771.03	22.60	1849.01	1848.99	1849.15	89.30	.97
9388.00	89.90	87.40	7770.78	26.83	1943.92	1943.89	1944.10	89.21	.54
9484.00	90.10	88.40	7770.78	30.35	2039.85	2039.82	2040.08	89.15	1.06
9579.00	89.00	90.00	7771.53	31.67	2134.84	2134.80	2135.07	89.15	2.04
9674.00	89.50	89.50	7772.77	32.09	2229.83	2229.79	2230.06	89.18	.74
9770.00	87.80	91.10	7775.03	31.58	2325.79	2325.76	2326.01	89.22	2.43
9865.00	88.10	90.90	7778.43	29.93	2420.72	2420.68	2420.90	89.29	.38
9960.00	88.80	91.10	7781.00	28.27	2515.67	2515.64	2515.83	89.36	.77
10056.00	89.00	91.20	7782.84	26.34	2611.63	2611.60	2611.76	89.42	.23
10151.00	88.50	90.90	7784.92	24.60	2706.59	2706.56	2706.70	89.48	.61
10245.00	87.70	90.00	7788.03	23.87	2800.53	2800.51	2800.64	89.51	1.28
10341.00	88.30	90.90	7791.38	23.11	2896.47	2896.45	2896.56	89.54	1.13
10437.00	89.80	91.40	7792.97	21.19	2992.44	2992.41	2992.51	89.59	1.65
10532.00	90.50	91.10	7792.73	19.11	3087.41	3087.39	3087.47	89.65	.80
10627.00	89.20	91.20	7792.97	17.21	3182.39	3182.37	3182.44	89.69	1.37
10722.00	89.80	90.90	7793.80	15.47	3277.37	3277.35	3277.41	89.73	.71
10818.00	88.90	91.20	7794.89	13.71	3373.35	3373.33	3373.38	89.77	.99
10913.00	87.60	90.70	7797.79	12.13	3468.29	3468.27	3468.31	89.80	1.47
11008.00	87.60	90.40	7801.77	11.22	3563.20	3563.19	3563.22	89.82	.32
11104.00	89.30	89.70	7804.37	11.14	3659.16	3659.15	3659.18	89.83	1.91
11199.00	89.30	89.10	7805.53	12.13	3754.15	3754.13	3754.17	89.81	.63
11294.00	89.90	88.60	7806.19	14.04	3849.13	3849.11	3849.15	89.79	.82
11389.00	90.20	88.20	7806.11	16.69	3944.09	3944.07	3944.12	89.76	.53

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
11484.00	89.60	90.00	7806.28	18.18	4039.07	4039.05	4039.11	89.74	2.00
11580.00	89.30	90.20	7807.20	18.02	4135.07	4135.05	4135.11	89.75	.38
11676.00	89.30	89.70	7808.37	18.10	4231.06	4231.04	4231.10	89.75	.52
11771.00	89.30	89.50	7809.53	18.76	4326.05	4326.03	4326.09	89.75	.21
11866.00	88.90	88.40	7811.02	20.50	4421.02	4421.00	4421.07	89.73	1.23
11961.00	88.70	87.40	7813.01	23.98	4515.94	4515.91	4516.00	89.70	1.07
12057.00	88.50	86.50	7815.36	29.09	4611.77	4611.74	4611.86	89.64	.96
12152.00	90.80	87.00	7815.94	34.48	4706.61	4706.57	4706.73	89.58	2.48
12199.00	91.50	86.70	7814.99	37.06	4753.53	4753.49	4753.67	89.55	1.62
Projection To Bit									
12255.00	91.50	86.70	7813.53	40.28	4809.42	4809.37	4809.58	89.52	.00

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.39°

OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001
GL 3278 + 20 @ 3298.0usft (Patterson #45)
GROUND ELEVATION: 3278.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	571502.80	570403.30	32° 34' 15.457 N	104° 6' 17.281 W	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	7100.0	0.54	169.61	7097.9	3.7	55.5	0.00	0.00	55.5	
2	7273.5	0.54	169.61	7271.4	2.1	55.8	0.00	0.00	55.8	
3	8014.9	89.06	90.04	7748.0	-2.5	525.5	12.00	-79.58	525.5	
4	12299.8	89.06	90.04	7818.0	-5.4	4809.8	0.00	0.00	4809.8	PBHL Glock 17 LI Federal #1H

