

HOBBS OCD

OCT 13 2016

RECEIVED

Stryker Directional

El Mar 21 A3CN Fed Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 21-26S-33E El Mar 21 A3CN Fed Com #
Well: El Mar 21 A3CN Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well El Mar 21 A3CN Fed Com #1H
TVD Reference: 3274 + 25 @ 3299.0usft (Patterson #36)
MD Reference: 3274 + 25 @ 3299.0usft (Patterson #36)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project Lea County N.M.

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Section 21-26S-33E El Mar 21 A3CN Fed Com #1H

Site Position:		Northing:	377,495.84 usft	Latitude:	32° 2' 8.183 N
From:	Map	Easting:	733,768.14 usft	Longitude:	103° 34' 44.211 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well El Mar 21 A3CN Fed Com #1H

Well Position	+N/-S	0.0 usft	Northing:	377,495.84 usft	Latitude:	32° 2' 8.183 N
	+E/-W	0.0 usft	Easting:	733,768.14 usft	Longitude:	103° 34' 44.211 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,274.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/20/2015	7.18	59.92	48,048

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	175.42

Stryker Directional

EI Mar 21 A3CN Fed Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 21-26S-33E EI Mar 21 A3CN Fed Com #
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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well EI Mar 21 A3CN Fed Com #1H
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Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program		Date 5/14/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,800.0	MS Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
8,910.0	14,395.0	Stryker MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
8,800.0	0.67	170.08	8,799.4	-1.5	2.5	1.7	3.0	121.47	0.00
8,910.0	0.60	209.80	8,909.3	-2.7	2.4	2.9	3.6	138.70	0.40
9,063.0	0.30	266.30	9,062.3	-3.4	1.6	3.5	3.7	155.39	0.33
9,158.0	0.70	259.20	9,157.3	-3.5	0.7	3.6	3.6	168.14	0.43
9,190.0	0.40	254.00	9,189.3	-3.6	0.4	3.6	3.6	173.00	0.95
9,222.0	0.70	245.90	9,221.3	-3.7	0.2	3.7	3.7	177.59	0.97
9,254.0	1.90	251.50	9,253.3	-4.0	-0.5	3.9	4.0	187.57	3.77
9,285.0	3.90	237.10	9,284.3	-4.7	-1.9	4.5	5.1	202.03	6.82
9,317.0	6.50	228.50	9,316.1	-6.5	-4.2	6.1	7.7	212.74	8.46
9,348.0	8.00	198.70	9,346.9	-9.7	-6.2	9.2	11.5	212.51	12.88
9,380.0	11.70	200.00	9,378.4	-14.8	-8.0	14.2	16.9	208.31	11.58
9,412.0	15.90	199.70	9,409.5	-22.0	-10.6	21.1	24.4	205.67	13.13
9,444.0	19.80	195.00	9,440.0	-31.4	-13.5	30.2	34.2	203.22	12.98
9,475.0	23.10	186.70	9,468.8	-42.5	-15.5	41.1	45.3	200.08	14.44
9,507.0	25.80	178.80	9,497.9	-55.7	-16.1	54.2	58.0	196.14	13.23
9,539.0	27.80	171.90	9,526.5	-70.1	-14.9	68.7	71.6	192.03	11.55
9,602.0	28.10	171.30	9,582.2	-99.3	-10.6	98.1	99.8	186.10	0.65
9,634.0	31.40	172.60	9,609.9	-115.0	-8.4	114.0	115.3	184.18	10.51
9,665.0	34.50	172.30	9,636.0	-131.7	-6.2	130.8	131.9	182.69	10.01
9,697.0	37.20	175.50	9,661.9	-150.3	-4.2	149.5	150.4	181.60	10.27
9,729.0	40.30	174.90	9,686.8	-170.3	-2.5	169.6	170.3	180.85	9.76

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El Mar 21A3CN Fed Com #1H

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)
9,760.0	42.30	176.40	9,710.1	-190.7	-1.0	190.0	190.7	180.30	7.20
9,792.0	45.10	174.60	9,733.3	-212.7	0.8	212.1	212.7	179.80	9.57
9,824.0	48.70	173.80	9,755.1	-236.0	3.1	235.5	236.0	179.24	11.40
9,856.0	51.90	171.70	9,775.6	-260.4	6.2	260.1	260.5	178.63	11.20
9,887.0	55.90	170.80	9,793.8	-285.1	10.1	285.0	285.3	177.98	13.11
9,919.0	59.70	171.60	9,810.9	-311.9	14.2	312.0	312.2	177.39	12.06
9,951.0	63.00	174.70	9,826.2	-339.8	17.5	340.1	340.2	177.05	13.36
9,982.0	64.40	179.70	9,840.0	-367.5	18.9	367.9	368.0	177.06	15.15
10,014.0	65.10	182.60	9,853.6	-396.4	18.3	396.6	396.9	177.36	8.48
10,046.0	68.80	180.50	9,866.1	-425.9	17.5	425.9	426.2	177.65	13.04
10,078.0	72.90	178.60	9,876.6	-456.1	17.8	456.1	456.4	177.77	13.99
10,109.0	76.30	174.90	9,884.9	-485.9	19.5	485.9	486.3	177.71	15.89
10,141.0	79.30	171.50	9,891.6	-517.0	23.2	517.2	517.5	177.43	13.99
10,173.0	85.00	170.60	9,896.0	-548.3	28.1	548.8	549.0	177.07	18.03
10,205.0	88.50	171.50	9,897.8	-579.8	33.1	580.6	580.8	176.74	11.29
10,300.0	89.80	171.80	9,899.2	-673.8	46.9	675.4	675.4	176.02	1.40
10,362.0	90.00	172.90	9,899.3	-735.3	55.1	737.3	737.3	175.71	1.80
10,425.0	89.50	173.40	9,899.6	-797.8	62.6	800.3	800.3	175.51	1.12
10,489.0	88.20	173.90	9,900.9	-861.4	69.7	864.2	864.2	175.37	2.18
10,552.0	88.70	173.90	9,902.6	-924.0	76.4	927.2	927.2	175.27	0.79
10,616.0	88.60	174.90	9,904.1	-987.7	82.6	991.1	991.1	175.22	1.57
10,680.0	89.00	174.70	9,905.5	-1,051.4	88.4	1,055.1	1,055.1	175.19	0.70
10,743.0	89.70	175.40	9,906.2	-1,114.2	93.9	1,118.1	1,118.1	175.18	1.57
10,807.0	88.70	177.10	9,907.1	-1,178.0	98.1	1,182.1	1,182.1	175.24	3.08
10,870.0	88.90	177.40	9,908.4	-1,240.9	101.1	1,245.1	1,245.1	175.34	0.57
10,934.0	88.00	177.00	9,910.1	-1,304.8	104.2	1,309.0	1,309.0	175.43	1.54
10,997.0	88.10	176.80	9,912.3	-1,367.7	107.6	1,371.9	1,371.9	175.50	0.35

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Survey

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11,061.0	88.70	176.70	9,914.0	-1,431.6	111.2	1,435.9	1,435.9	175.56	0.95
11,124.0	89.20	176.10	9,915.2	-1,494.5	115.2	1,498.9	1,498.9	175.59	1.24
11,187.0	90.00	175.90	9,915.6	-1,557.3	119.6	1,561.9	1,561.9	175.61	1.31
11,251.0	90.10	175.80	9,915.6	-1,621.1	124.2	1,625.9	1,625.9	175.62	0.22
11,314.0	90.80	175.10	9,915.1	-1,683.9	129.2	1,688.9	1,688.9	175.61	1.57
11,378.0	89.70	176.00	9,914.8	-1,747.7	134.2	1,752.9	1,752.9	175.61	2.22
11,441.0	89.60	176.30	9,915.2	-1,810.6	138.4	1,815.9	1,815.9	175.63	0.50
11,504.0	88.70	176.30	9,916.1	-1,873.4	142.5	1,878.8	1,878.9	175.65	1.43
11,568.0	88.40	176.80	9,917.7	-1,937.3	146.3	1,942.8	1,942.8	175.68	0.91
11,631.0	89.50	176.70	9,918.9	-2,000.2	149.9	2,005.8	2,005.8	175.71	1.75
11,695.0	89.30	177.00	9,919.6	-2,064.1	153.4	2,069.8	2,069.8	175.75	0.56
11,758.0	89.60	176.80	9,920.2	-2,127.0	156.8	2,132.7	2,132.8	175.78	0.57
11,821.0	88.80	176.80	9,921.1	-2,189.9	160.3	2,195.7	2,195.8	175.81	1.27
11,885.0	88.40	175.60	9,922.6	-2,253.7	164.6	2,259.7	2,259.7	175.82	1.98
11,949.0	89.40	175.40	9,923.8	-2,317.5	169.6	2,323.7	2,323.7	175.81	1.59
12,012.0	89.10	176.20	9,924.7	-2,380.4	174.2	2,386.7	2,386.7	175.81	1.36
12,076.0	89.10	175.50	9,925.7	-2,444.2	178.8	2,450.7	2,450.7	175.82	1.09
12,139.0	89.90	175.40	9,926.2	-2,507.0	183.8	2,513.6	2,513.7	175.81	1.28
12,203.0	89.80	176.40	9,926.4	-2,570.8	188.4	2,577.6	2,577.7	175.81	1.57
12,267.0	88.80	177.30	9,927.2	-2,634.7	191.9	2,641.6	2,641.7	175.83	2.10
12,331.0	89.30	177.80	9,928.2	-2,698.6	194.7	2,705.6	2,705.7	175.87	1.10
12,394.0	90.00	177.40	9,928.6	-2,761.6	197.3	2,768.5	2,768.6	175.91	1.28
12,458.0	90.10	177.00	9,928.6	-2,825.5	200.4	2,832.5	2,832.6	175.94	0.64
12,522.0	88.40	176.80	9,929.4	-2,889.4	203.9	2,896.5	2,896.6	175.96	2.67
12,617.0	89.20	177.10	9,931.4	-2,984.2	208.9	2,991.4	2,991.6	175.99	0.90
12,712.0	88.90	177.00	9,933.0	-3,079.1	213.8	3,086.4	3,086.5	176.03	0.33
12,808.0	89.80	177.00	9,934.1	-3,175.0	218.9	3,182.3	3,182.5	176.06	0.94

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12,903.0	89.00	176.50	9,935.1	-3,269.8	224.2	3,277.3	3,277.5	176.08	0.99
12,999.0	87.50	176.50	9,938.0	-3,365.6	230.1	3,373.2	3,373.4	176.09	1.56
13,094.0	88.40	176.30	9,941.4	-3,460.3	236.1	3,468.1	3,468.4	176.10	0.97
13,190.0	89.30	176.00	9,943.3	-3,556.1	242.5	3,564.1	3,564.4	176.10	0.99
13,285.0	88.70	175.00	9,945.0	-3,650.8	250.0	3,659.1	3,659.3	176.08	1.23
13,380.0	90.50	175.20	9,945.6	-3,745.4	258.1	3,754.1	3,754.3	176.06	1.91
13,476.0	89.50	174.50	9,945.6	-3,841.0	266.7	3,850.1	3,850.3	176.03	1.27
13,571.0	89.00	175.40	9,946.9	-3,935.7	275.1	3,945.1	3,945.3	176.00	1.08
13,667.0	90.30	174.50	9,947.5	-4,031.3	283.5	4,041.1	4,041.2	175.98	1.65
13,762.0	90.30	175.40	9,947.0	-4,125.9	291.9	4,136.1	4,136.2	175.95	0.95
13,857.0	89.00	175.40	9,947.5	-4,220.6	299.5	4,231.0	4,231.2	175.94	1.37
13,953.0	87.30	175.30	9,950.6	-4,316.2	307.3	4,327.0	4,327.2	175.93	1.77
14,048.0	88.00	174.80	9,954.5	-4,410.8	315.4	4,421.9	4,422.1	175.91	0.91
14,142.0	88.90	174.20	9,957.1	-4,504.3	324.5	4,515.9	4,516.0	175.88	1.15
14,238.0	90.60	173.80	9,957.5	-4,599.8	334.5	4,611.8	4,612.0	175.84	1.82
14,333.0	91.90	173.90	9,955.4	-4,694.2	344.7	4,706.8	4,706.9	175.80	1.37
14,350.0	92.20	173.90	9,954.8	-4,711.1	346.5	4,723.8	4,723.9	175.79	1.76
14,395.0	92.20	173.90	9,953.1	-4,755.8	351.2	4,768.7	4,768.8	175.78	0.00

14395' MD Projected to Bit

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,395.0	9,953.1	-4,755.8	351.2	14395' MD Projected to Bit



COMPANY: Mewbourne Oil Company .
WELL: El Mar 21 A3CN Fed Com #1H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
R/G: Patterson #36

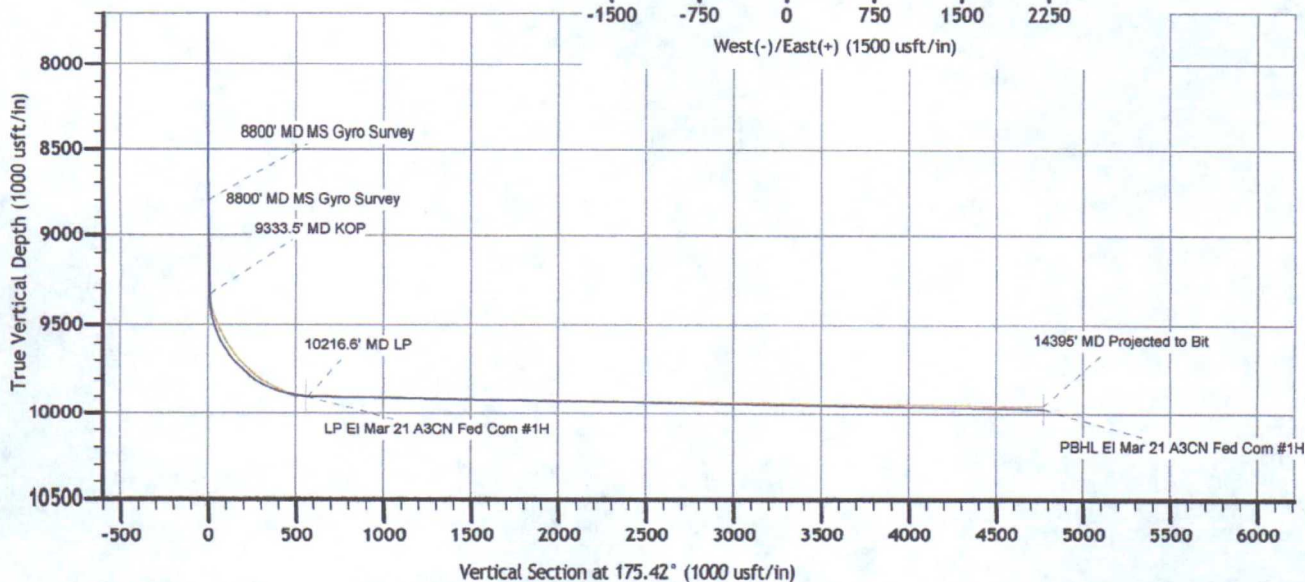
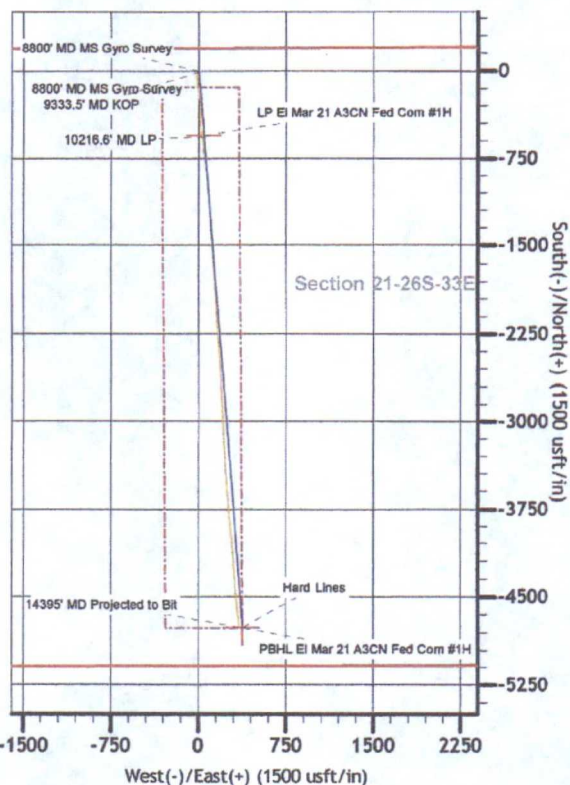


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.78°

GEODETIC ZONE: New Mexico East 3001							Slot
3274 + 25 @ 3299.0usft (Patterson #36)							
GROUND ELEVATION: 3274.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	377495.84	733768.14	32° 2' 8.183 N	103° 34' 44.211 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	8800.0	0.67	170.08	8799.4	-1.5	2.5	0.00	0.00	1.7	
2	9333.5	0.67	170.08	9332.8	-7.7	3.6	0.00	0.00	8.0	
3	10216.6	88.98	175.47	9899.0	-568.6	48.7	10.00	5.39	570.7	
4	14421.0	88.98	175.47	9974.0	-4758.1	381.1	0.00	0.00	4774.4	PBHL El Mar 21 A3CN Fed Com #1H

SHL: 190' FNL; 1965' FWL
PBHL: 330' FSL; 2310' FWL
Section 21-26S-33E





Job Number: SVMO-150353
 Company: Mewbourne Oil & Gas
 Lease/Well: EL Mar 21 A3CN Fed Com 1H
 Location: Lea County, NM
 Rig Name: Patterson #36
 RKB: 25'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 6.78°
 Grid: East To Grid North
 File name: W:\WINSER~1\2015SU~1\MEWBOU~1\MOELMAR~1\21A3CN~1\1H.SVY
 Date/Time: 07-May-15 / 09:31
 Curve Name: Surface - 8800' M.D. (SRG)

MS Survey

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 175.42

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 8800' MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.

Travis Pack 5/7/15
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.17	36.91	100.00	.12	.09	-.11	.15	36.91	.17
200.00	.23	59.66	200.00	.34	.35	-.31	.49	46.06	.10
300.00	.22	156.71	300.00	.26	.60	-.21	.66	66.30	.34
400.00	.22	194.22	400.00	-.10	.63	.15	.64	98.92	.14
500.00	.80	205.67	499.99	-.91	.28	.93	.96	162.98	.59
600.00	1.22	198.81	599.98	-2.55	-.37	2.51	2.58	188.16	.44
700.00	1.40	191.95	699.95	-4.75	-.96	4.66	4.85	191.44	.24
800.00	1.37	187.96	799.92	-7.13	-1.38	7.00	7.27	190.95	.10
900.00	1.17	196.77	899.90	-9.29	-1.84	9.12	9.47	191.20	.28
1000.00	.81	172.21	999.88	-10.97	-2.04	10.77	11.16	190.53	.55
1100.00	.43	104.71	1099.88	-11.77	-1.58	11.60	11.87	187.65	.76
1200.00	.38	252.87	1199.88	-11.96	-1.53	11.80	12.06	187.31	.78

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg - Severity Deg/100
							Distance FT	Direction Deg	
1300.00	.17	76.33	1299.88	-12.02	-1.71	11.85	12.14	188.08	.55
1400.00	.26	340.44	1399.88	-11.77	-1.64	11.61	11.89	187.93	.32
1500.00	.67	250.01	1499.87	-11.76	-2.26	11.54	11.98	190.90	.72
1600.00	1.01	190.18	1599.86	-12.83	-2.97	12.55	13.17	193.04	.89
1700.00	.83	133.52	1699.85	-14.19	-2.60	13.94	14.43	190.38	.89
1800.00	.58	42.69	1799.85	-14.32	-1.73	14.14	14.43	186.90	1.02
1900.00	.70	297.29	1899.84	-13.67	-1.93	13.47	13.80	188.04	1.02
2000.00	.84	224.07	1999.84	-13.92	-2.98	13.63	14.23	192.11	.93
2100.00	.73	167.17	2099.83	-15.06	-3.35	14.75	15.43	192.55	.75
2200.00	.61	111.98	2199.82	-15.88	-2.72	15.62	16.11	189.71	.63
2300.00	.35	35.64	2299.82	-15.83	-2.05	15.62	15.97	187.36	.63
2400.00	.62	301.67	2399.82	-15.30	-2.33	15.07	15.48	188.65	.73
2500.00	.82	223.77	2499.81	-15.53	-3.28	15.22	15.88	191.94	.92
2600.00	.87	154.69	2599.80	-16.74	-3.45	16.41	17.09	191.66	.96
2700.00	.94	81.09	2699.79	-17.30	-2.32	17.06	17.45	187.64	1.09
2800.00	1.02	12.30	2799.78	-16.30	-1.32	16.14	16.35	184.63	1.11
2900.00	1.19	305.86	2899.77	-14.82	-1.97	14.62	14.95	187.58	1.22
3000.00	1.19	240.83	2999.75	-14.72	-3.72	14.38	15.18	194.18	1.28
3100.00	1.19	162.26	3099.74	-16.22	-4.31	15.82	16.78	194.89	1.51
3200.00	.96	78.44	3199.72	-17.04	-3.17	16.73	17.33	190.55	1.45
3300.00	.73	29.89	3299.71	-16.32	-2.03	16.10	16.44	187.11	.73
3400.00	.52	316.05	3399.71	-15.44	-2.03	15.23	15.57	187.50	.77
3500.00	.26	187.28	3499.71	-15.34	-2.38	15.10	15.52	188.81	.71
3600.00	1.05	84.49	3599.70	-15.47	-1.49	15.30	15.54	185.51	1.14
3700.00	1.39	49.02	3699.68	-14.59	.33	14.57	14.59	178.69	.81
3800.00	1.15	5.95	3799.66	-12.80	1.35	12.86	12.87	173.96	.96
3900.00	1.07	327.94	3899.64	-11.01	.96	11.05	11.05	175.00	.73
4000.00	.91	268.60	3999.63	-10.23	-.33	10.18	10.24	181.83	.99
4100.00	.88	197.68	4099.62	-10.99	-1.35	10.84	11.07	187.02	1.04
4200.00	1.03	111.17	4199.61	-12.04	-.75	11.94	12.07	183.56	1.31
4300.00	1.34	79.14	4299.59	-12.15	1.24	12.21	12.21	174.18	.72
4400.00	1.01	46.44	4399.57	-11.32	3.02	11.52	11.72	165.04	.73
4500.00	.43	14.93	4499.56	-10.35	3.76	10.62	11.01	160.03	.68
4600.00	.51	123.29	4599.56	-10.23	4.23	10.54	11.07	157.54	.76

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg - Severity Deg/100
							Distance FT	Direction Deg	
4700.00	.97	92.78	4699.55	-10.52	5.45	10.92	11.84	152.62	.59
4800.00	.65	14.42	4799.54	-10.01	6.43	10.49	11.90	147.27	1.05
4900.00	.72	16.96	4899.54	-8.86	6.76	9.37	11.14	142.66	.08
5000.00	.85	5.14	4999.53	-7.52	7.01	8.05	10.28	137.01	.21
5100.00	.92	359.30	5099.51	-5.98	7.06	6.52	9.25	130.23	.11
5200.00	.91	358.30	5199.50	-4.38	7.03	4.93	8.28	121.92	.02
5300.00	.63	350.30	5299.49	-3.04	6.91	3.59	7.55	113.76	.30
5400.00	.52	322.00	5399.49	-2.14	6.54	2.66	6.88	108.15	.30
5500.00	.57	333.87	5499.48	-1.34	6.04	1.82	6.19	102.50	.12
5600.00	.54	325.00	5599.48	-.51	5.55	.95	5.58	95.22	.09
5700.00	.52	315.96	5699.47	.20	4.97	.19	4.97	87.64	.09
5800.00	.62	296.44	5799.47	.77	4.17	-.44	4.24	79.51	.22
5900.00	.28	267.56	5899.47	1.00	3.44	-.72	3.58	73.76	.40
6000.00	.66	297.53	5999.46	1.26	2.69	-1.04	2.97	64.90	.44
6100.00	.41	278.36	6099.46	1.58	1.82	-1.43	2.41	49.12	.30
6200.00	.56	334.39	6199.45	2.07	1.26	-1.96	2.42	31.25	.47
6300.00	.34	295.15	6299.45	2.64	.78	-2.57	2.75	16.40	.37
6400.00	.64	307.59	6399.45	3.10	.06	-3.09	3.10	1.20	.32
6500.00	.71	318.01	6499.44	3.90	-.79	-3.95	3.98	348.53	.14
6600.00	.76	350.31	6599.43	5.02	-1.32	-5.11	5.19	345.28	.41
6700.00	.85	359.06	6699.42	6.41	-1.44	-6.51	6.57	347.33	.15
6800.00	.76	31.44	6799.41	7.72	-1.11	-7.78	7.80	351.83	.46
6900.00	.66	60.24	6899.41	8.57	-.26	-8.57	8.58	358.25	.37
7000.00	.47	119.37	6999.40	8.66	.59	-8.58	8.68	3.93	.58
7100.00	.64	122.28	7099.40	8.16	1.42	-8.02	8.28	9.90	.17
7200.00	.39	97.95	7199.39	7.81	2.23	-7.61	8.13	15.96	.33
7300.00	.27	104.67	7299.39	7.71	2.80	-7.46	8.20	19.96	.13
7400.00	.10	96.53	7399.39	7.64	3.11	-7.36	8.25	22.18	.17
7500.00	.02	173.66	7499.39	7.61	3.20	-7.33	8.26	22.82	.10
7600.00	.34	233.24	7599.39	7.41	2.97	-7.15	7.99	21.81	.33
7700.00	.62	213.50	7699.39	6.79	2.43	-6.57	7.21	19.70	.32
7800.00	.39	154.92	7799.38	6.03	2.28	-5.82	6.44	20.69	.53
7900.00	.61	212.10	7899.38	5.27	2.14	-5.08	5.68	22.08	.52
8000.00	.25	156.72	7999.38	4.62	1.94	-4.45	5.01	22.80	.51

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
8100.00	.53	216.89	8099.38	4.04	1.75	-3.89	4.41	23.38	.46
8200.00	.43	141.31	8199.37	3.38	1.71	-3.24	3.79	26.76	.59
8300.00	.48	192.36	8299.37	2.68	1.85	-2.52	3.26	34.63	.39
8400.00	.80	179.97	8399.36	1.57	1.76	-1.43	2.36	48.24	.35
8500.00	.34	157.27	8499.36	.60	1.88	-.45	1.97	72.24	.50
8600.00	.51	171.66	8599.36	-.11	2.06	.28	2.06	93.15	.20
8700.00	.30	143.46	8699.35	-.76	2.28	.94	2.40	108.55	.28
Last Survey Depth Recorded									
8800.00	.67	170.08	8799.35	-1.55	2.53	1.75	2.97	121.47	.42



COMPANY: Mewbourne Oil Company
 WELL: El Mar 21 A3CN Fed Com #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #36

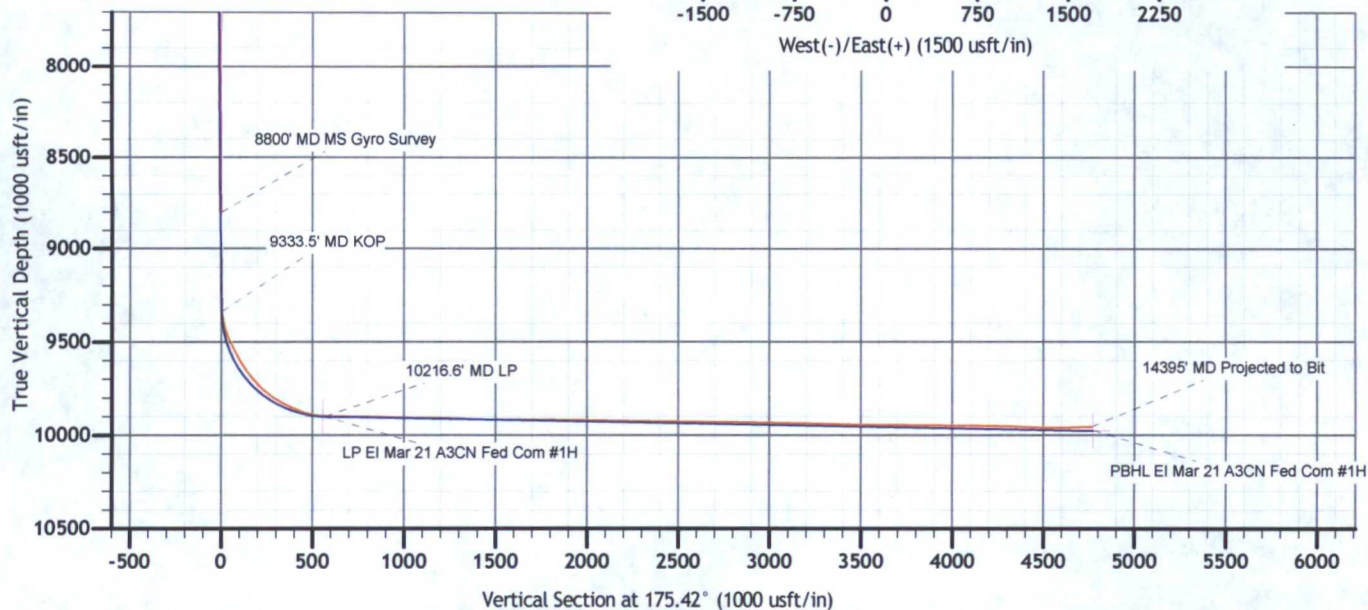
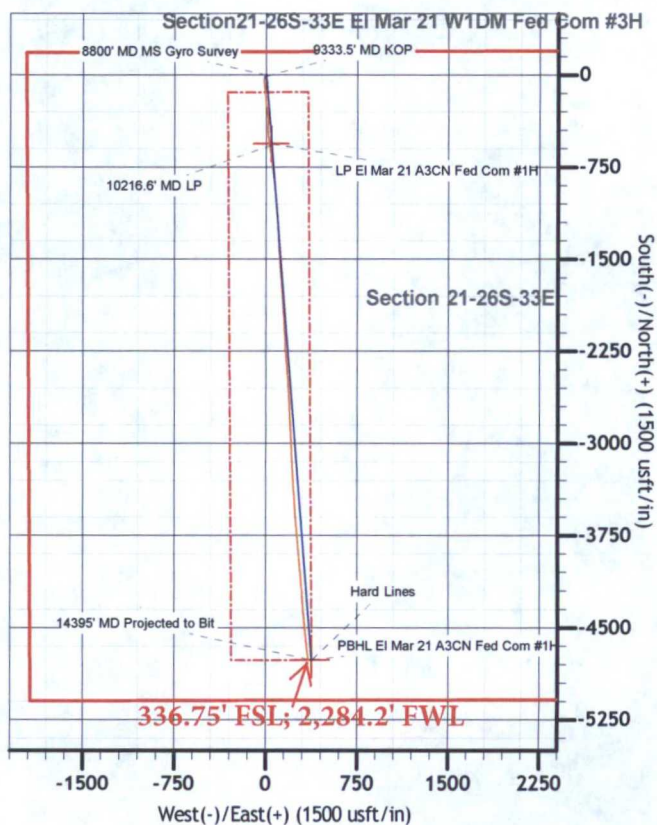
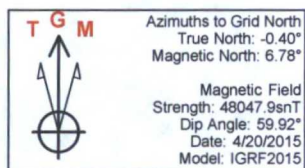


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.78°

GEODETIC ZONE: New Mexico East 3001 3274 + 25 @ 3299.0usft (Patterson #36)						Slot
GROUND ELEVATION: 3274.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	377495.84	733768.14	32° 2' 8.183 N	103° 34' 44.211 W	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	8800.0	0.67	170.08	8799.4	-1.5	2.5	0.00	0.00	1.7	
2	9333.5	0.67	170.08	9332.8	-7.7	3.6	0.00	0.00	8.0	
3	10216.6	88.98	175.47	9899.0	-568.6	48.7	10.00	5.39	570.7	
4	14421.0	88.98	175.47	9974.0	-4759.1	381.1	0.00	0.00	4774.4	PBHL El Mar 21 A3CN Fed Com #1H

SHL: 190' FNL; 1965' FWL
 PBHL: 330' FSL; 2310' FWL
 Section 21-26S-33E





June 9, 2015

Survey Certification Report

HOBBS OCD
OCT 13 2016
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 May 06, 2015 through May 14, 2015, conduct or supervise the taking of a SEDS MWD Survey from a depth of 8,910 feet to a depth of 14,350 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 EL MAR 21 A3CN Federal Com #001H well, API # 30-025-42507 in Lea 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



June 9, 2015

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

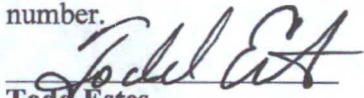
Attn: Jackie Lathan

Re: Mewbourne Oil Company
EL MAR 21 A3CN Federal Com #001H
Red Hills; Upper Bone Spring Shale
Lea County, New Mexico
API# 30-025-42507

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>
Paul Niewiemiński	Original Hole	8,910ft. to 14,350ft.	05-06-15 to 05-14-15	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\EL MAR 21 A3CN Fed Com #1H\M151051

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