March 27, 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
Red Hills West Unit #012H
Jennings;Upper Bone Spring Shale
Lea County, New Mexico
API# 30-025-42417

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:

Name & Title	Drainhole No.	Survey Depths	Dates Performed	Type Survey
Paul Niewiemski	Original Hole	8,741ft. to 13,642ft.	03-04-15 to 03-15-15	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\Red Hills West Unit #12\M151028

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163

March 27, 2015

Survey Certification Report

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 March 04, 2015 thru March 15, 2015, conduct or supervise the taking of a SEDS MWD Survey from a depth of 8,741 feet to a depth of 13,642 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 Red Hills West Unit #012H well, API # **30-025-42417** 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

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Stryker Directional

Red Hills West #12H

Company:	Mewbourne Oil Company .	**Local Co-ordinate Reference:**	Well Red Hills West #12H
Project:	Lea County N.M.	**TVD Reference:**	3250 + 20 @ 3270.0usft (Patterson)
Site:	Section10-26S-32E Red Hills West Unit #12H	**MD Reference:**	3250 + 20 @ 3270.0usft (Patterson)
Well:	Red Hills West #12H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

Project Lea County N.M.

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 Section10-26S-32E Red Hills West Unit #12H

Site Position:		**Northing:**	387,621.50 usft	**Latitude:**	32° 3' 50.201 N
From:	Map	**Easting:**	705,853.00 usft	**Longitude:**	103° 40' 7.770 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.35 °

Well Red Hills West #12H

Well Position	**+N/-S**	0.0 usft	**Northing:**	387,621.50 usft	**Latitude:**	32° 3' 50.201 N
	+E/-W	0.0 usft	**Easting:**	705,853.00 usft	**Longitude:**	103° 40' 7.770 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,250.0 usft

Wellbore Original Hole

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	2/12/2015	7.24	59.93	48,074

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	181.52

Stryker Directional

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Site:	Section10-26S-32E Red Hills West Unit #12H	**MD Reference:**	3250 + 20 @ 3270.0usft (Patterson)
Well:	Red Hills West #12H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**Database:**	Stryker_EDM

Survey Program **Date** 3/16/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,700.0	MS Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
8,741.0	13,685.0	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)
8,700.0	1.00	299.25	8,690.7	-155.4	174.3	150.8	233.6	131.72	0.00
8,741.0	1.30	267.80	8,731.7	-155.3	173.5	150.6	232.9	131.82	1.68
8,773.0	3.00	209.40	8,763.6	-156.0	172.8	151.4	232.8	132.08	8.03
8,804.0	6.20	195.60	8,794.5	-158.3	171.9	153.7	233.7	132.65	10.85
8,836.0	9.80	189.60	8,826.2	-162.7	171.0	158.1	236.0	133.57	11.53
8,868.0	13.50	188.40	8,857.6	-169.1	170.0	164.5	239.8	134.84	11.59
8,900.0	15.60	186.10	8,888.5	-177.1	169.0	172.5	244.8	136.33	6.81
8,932.0	17.00	182.50	8,919.2	-186.0	168.3	181.5	250.9	137.85	5.39
8,963.0	18.50	178.00	8,948.8	-195.4	168.3	190.9	257.9	139.27	6.55
8,995.0	19.90	175.00	8,979.0	-205.9	169.0	201.4	266.4	140.63	5.35
9,027.0	21.80	175.80	9,008.9	-217.3	169.9	212.7	275.8	141.98	6.00
9,059.0	23.60	177.00	9,038.4	-229.6	170.6	225.0	286.1	143.38	5.81
9,090.0	25.50	176.80	9,066.6	-242.5	171.3	237.9	296.9	144.76	6.13
9,122.0	27.90	176.80	9,095.2	-256.8	172.1	252.2	309.2	146.17	7.50
9,154.0	30.10	177.90	9,123.2	-272.3	172.9	267.7	322.6	147.80	7.07
9,185.0	32.30	178.60	9,149.7	-288.4	173.3	283.7	336.5	148.99	7.19
9,217.0	35.30	179.60	9,176.3	-306.2	173.8	301.5	352.1	150.42	9.37
9,249.0	38.30	178.40	9,201.9	-325.3	174.3	320.6	369.1	151.82	9.38
9,281.0	41.50	178.60	9,226.4	-345.9	174.8	341.1	387.5	153.19	10.01
9,313.0	42.00	179.90	9,250.3	-367.2	175.1	362.4	406.8	154.50	3.12
9,345.0	45.20	180.70	9,273.5	-389.2	175.0	384.4	426.7	155.79	10.15

Stryker Directional

Red Hills West #12H

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Site:	Section10-26S-32E Red Hills West Unit #12H	**MD Reference:**	3250 + 20 @ 3270.0usft (Patterson)
Well:	Red Hills West #12H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
9,376.0	46.90	182.10	9,295.0	-411.5	174.4	406.8	447.0	157.03	6.38
9,408.0	46.10	184.10	9,317.0	-434.7	173.2	430.0	467.9	158.28	5.18
9,440.0	48.00	182.30	9,338.8	-456.1	171.9	453.4	489.3	159.43	7.22
9,472.0	52.40	182.50	9,359.3	-482.7	170.8	477.9	512.0	160.51	13.76
9,504.0	58.10	184.00	9,377.5	-508.9	169.3	504.2	536.3	161.59	18.22
9,536.0	64.00	185.50	9,393.0	-536.8	167.0	532.2	562.2	162.72	18.89
9,568.0	70.60	185.60	9,405.4	-566.1	164.2	561.6	589.5	163.83	20.63
9,597.0	76.50	183.80	9,413.6	-593.9	161.9	589.3	615.5	164.75	21.20
9,629.0	79.50	182.10	9,420.2	-625.1	160.3	620.6	645.3	165.62	10.72
9,661.0	81.30	181.40	9,425.6	-656.6	159.3	652.2	675.7	166.36	6.02
9,693.0	84.30	181.20	9,429.6	-688.4	158.6	683.9	706.4	167.03	9.40
9,725.0	87.10	181.30	9,432.0	-720.3	157.9	715.8	737.4	167.64	8.76
9,756.0	89.50	181.10	9,432.9	-751.3	157.2	746.8	767.5	168.18	7.77
9,788.0	90.10	180.60	9,433.0	-783.3	156.8	778.8	798.8	168.68	2.44
9,852.0	91.70	180.40	9,432.0	-847.2	156.2	842.8	861.5	169.55	2.52
9,915.0	90.30	181.10	9,430.9	-910.2	155.4	905.8	923.4	170.31	2.48
9,978.0	90.40	181.70	9,430.5	-973.2	153.8	968.8	985.3	171.02	0.97
10,042.0	90.50	180.60	9,430.0	-1,037.2	152.6	1,032.8	1,048.3	171.63	1.73
10,105.0	92.00	180.80	9,428.6	-1,100.2	151.8	1,095.7	1,110.6	172.14	2.40
10,169.0	91.40	181.40	9,426.7	-1,164.1	150.6	1,159.7	1,173.8	172.63	1.33
10,232.0	89.80	180.80	9,426.1	-1,227.1	149.4	1,222.7	1,236.2	173.06	2.71
10,296.0	90.40	180.60	9,426.0	-1,291.1	148.6	1,286.7	1,299.6	173.44	0.99
10,359.0	89.60	181.40	9,425.9	-1,354.1	147.5	1,349.7	1,362.1	173.78	1.59
10,423.0	91.40	182.50	9,425.2	-1,418.0	145.3	1,413.7	1,425.5	174.15	3.03
10,485.0	89.80	182.40	9,424.5	-1,480.0	142.6	1,475.7	1,486.8	174.49	2.59
10,549.0	88.60	182.10	9,425.4	-1,543.9	140.1	1,539.7	1,550.3	174.81	1.93
10,613.0	88.90	181.50	9,426.8	-1,607.9	138.1	1,603.7	1,613.8	175.09	1.05

Stryker Directional

Red Hills West #12H

Company:	Mewbourne Oil Company .
Project:	Lea County N.M.
Site:	Section10-26S-32E Red Hills West Unit #12H
Well:	Red Hills West #12H
Wellbore:	Original Hole
Design:	Original Hole

Local Co-ordinate Reference:	Well Red Hills West #12H
TVD Reference:	3250 + 20 @ 3270.0usft (Patterson)
MD Reference:	3250 + 20 @ 3270.0usft (Patterson)
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)
10,676.0	87.00	180.60	9,429.1	-1,670.8	137.0	1,666.6	1,676.4	175.31	3.34
10,740.0	88.40	181.40	9,431.7	-1,734.8	135.9	1,730.5	1,740.1	175.52	2.52
10,803.0	88.00	181.30	9,433.6	-1,797.7	134.4	1,793.5	1,802.7	175.73	0.65
10,867.0	90.50	182.30	9,434.5	-1,861.7	132.4	1,857.5	1,866.4	175.93	4.21
10,930.0	91.30	181.80	9,433.5	-1,924.6	130.1	1,920.5	1,929.0	176.13	1.50
10,994.0	91.80	181.80	9,431.8	-1,988.6	128.1	1,984.5	1,992.7	176.31	0.78
11,057.0	92.40	181.30	9,429.4	-2,051.5	126.4	2,047.4	2,055.4	176.47	1.24
11,121.0	90.40	182.10	9,427.9	-2,115.4	124.5	2,111.4	2,119.1	176.63	3.37
11,185.0	90.50	182.00	9,427.4	-2,179.4	122.2	2,175.4	2,182.8	176.79	0.22
11,248.0	91.10	181.10	9,426.5	-2,242.4	120.5	2,238.4	2,245.6	176.92	1.72
11,312.0	88.10	180.80	9,426.9	-2,306.4	119.4	2,302.4	2,309.4	177.04	4.71
11,375.0	87.40	180.20	9,429.4	-2,369.3	118.9	2,365.3	2,372.3	177.13	1.46
11,439.0	90.00	180.60	9,430.9	-2,433.3	118.4	2,429.3	2,436.2	177.21	4.11
11,502.0	90.20	180.20	9,430.8	-2,496.3	118.0	2,492.3	2,499.1	177.29	0.71
11,566.0	91.30	180.40	9,429.9	-2,560.3	117.7	2,556.3	2,563.0	177.37	1.75
11,630.0	92.10	180.60	9,428.0	-2,624.2	117.1	2,620.2	2,626.9	177.44	1.29
11,693.0	91.20	180.60	9,426.2	-2,687.2	116.5	2,683.2	2,689.7	177.52	1.43
11,756.0	89.10	180.50	9,426.0	-2,750.2	115.9	2,746.2	2,752.6	177.59	3.34
11,852.0	90.80	179.90	9,426.1	-2,846.2	115.5	2,842.1	2,848.5	177.68	1.88
11,884.0	89.90	180.00	9,425.9	-2,878.2	115.5	2,874.1	2,880.5	177.70	2.83
11,948.0	88.60	179.90	9,426.8	-2,942.2	115.6	2,938.1	2,944.5	177.75	2.04
12,012.0	88.60	180.10	9,428.3	-3,006.2	115.6	3,002.1	3,008.4	177.80	0.31
12,139.0	88.20	179.40	9,431.9	-3,133.1	116.2	3,128.9	3,135.3	177.88	0.63
12,234.0	90.60	182.70	9,432.9	-3,228.1	114.4	3,223.9	3,230.1	177.97	4.29
12,329.0	92.40	183.00	9,430.4	-3,322.9	109.7	3,318.8	3,324.7	178.11	1.92
12,425.0	90.70	181.40	9,427.8	-3,418.8	106.0	3,414.8	3,420.5	178.22	2.43
12,520.0	91.00	182.20	9,426.4	-3,513.8	103.0	3,509.8	3,515.3	178.32	0.90

Stryker Directional

Red Hills West #12H

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Red Hills West #12H
Project:	Lea County N.M.	**TVD Reference:**	3250 + 20 @ 3270.0usft (Patterson)
Site:	Section10-26S-32E Red Hills West Unit #12H	**MD Reference:**	3250 + 20 @ 3270.0usft (Patterson)
Well:	Red Hills West #12H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	Original Hole	**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)
12,615.0	89.90	182.60	9,425.6	-3,608.7	99.0	3,604.8	3,610.0	178.43	1.23
12,711.0	89.50	182.60	9,426.1	-3,704.6	94.7	3,700.8	3,705.8	178.54	0.42
12,806.0	90.10	181.40	9,426.5	-3,799.5	91.4	3,795.7	3,800.6	178.62	1.41
12,901.0	89.20	181.60	9,427.1	-3,894.5	88.9	3,890.7	3,895.5	178.69	0.97
12,996.0	89.50	181.20	9,428.1	-3,989.4	86.6	3,985.7	3,990.4	178.76	0.53
13,091.0	90.80	180.60	9,427.9	-4,084.4	85.1	4,080.7	4,085.3	178.81	1.51
13,186.0	88.20	181.10	9,428.7	-4,179.4	83.7	4,175.7	4,180.2	178.85	2.79
13,282.0	88.70	181.10	9,431.3	-4,275.3	81.8	4,271.7	4,276.1	178.90	0.52
13,377.0	89.90	181.00	9,432.5	-4,370.3	80.1	4,366.7	4,371.1	178.95	1.27
13,472.0	91.30	180.10	9,431.5	-4,465.3	79.2	4,461.6	4,466.0	178.98	1.75
13,566.0	92.40	180.30	9,428.4	-4,559.3	78.6	4,555.6	4,559.9	179.01	1.19
13,642.0	93.40	179.80	9,424.6	-4,635.2	78.8	4,631.4	4,635.8	179.03	1.47
13,685.0	93.40	179.80	9,422.0	-4,678.1	78.9	4,674.3	4,678.8	179.03	0.00

13685' MD Projected to Bit

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
13,685.0	9,422.0	-4,678.1	78.9	13685' MD Projected to Bit

COMPANY: Mewbourne Oil Company .
WELL: Red Hills West #12H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.89°

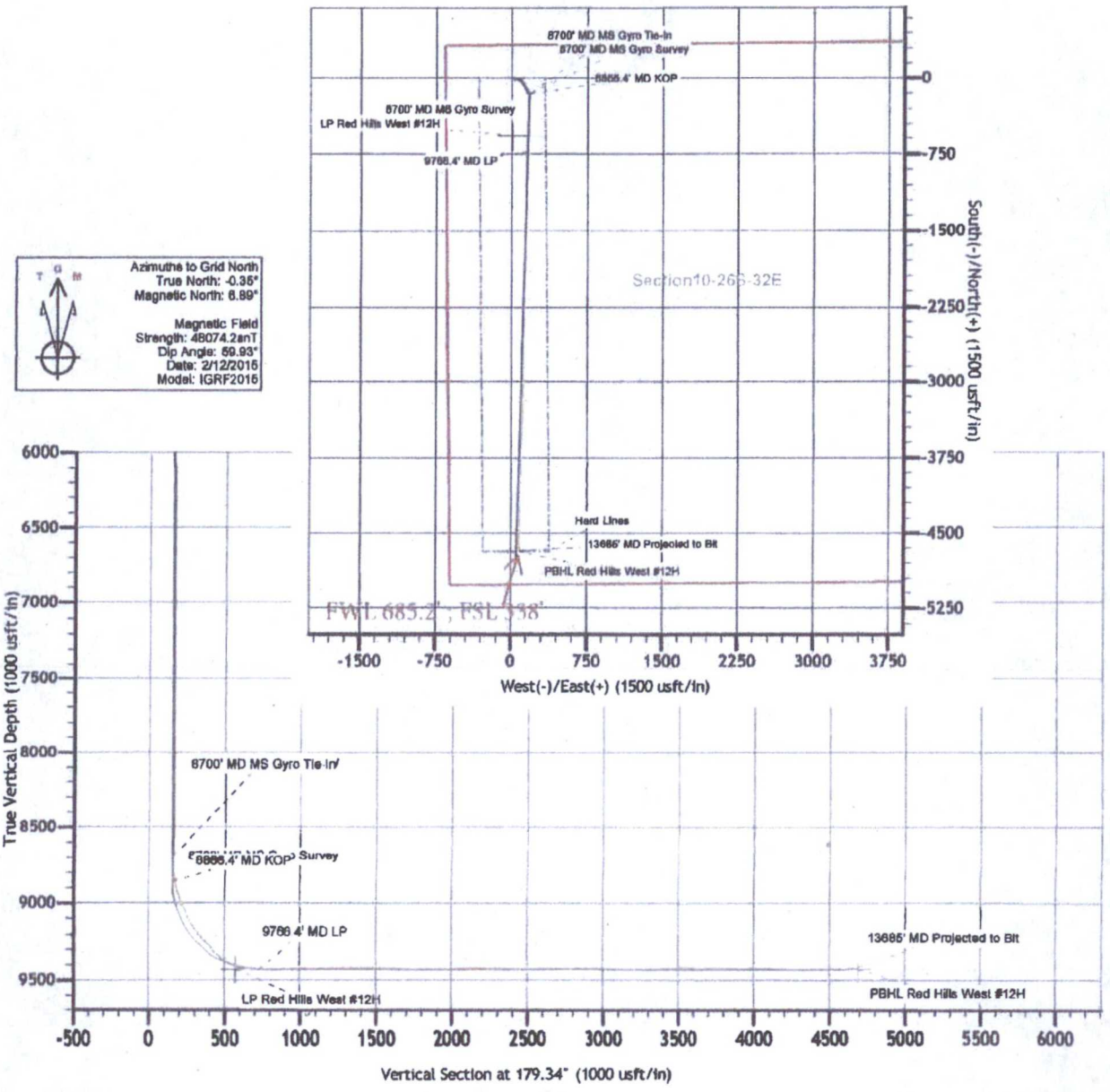
OFFICE: 936.882.7296

GEODETIC ZONE: New Mexico East 3001
3250 + 20 @ 3270.0usft (Patterson)
GROUND ELEVATION: 3250.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	387621.60	705853.00	32° 3' 50.201 N	103° 40' 7.770 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	8700.0	1.00	299.25	8690.7	-155.4	174.3	0.00	0.00	157.4	
2	8750.0	0.00	291.75	8740.7	-155.2	173.9	2.00	-176.26	157.2	
3	8866.4	0.00	291.75	8857.1	-155.2	173.9	0.00	291.75	157.2	
4	9766.4	90.00	181.52	9430.0	-728.0	158.7	10.00	181.52	729.8	
5	13726.1	90.00	181.52	9430.0	-4686.3	53.7	0.00	0.00	4686.6	PBHL Red Hills West #12H



MS Energy Services

Job Number: SVMO-150183
Company: Mewbourne Oil & Gas
Lease/Well: Red Hills West Unit 12H
Location: Lea County, NM
Rig Name: Patterson #36
RKB: 22'
G.L. or M.S.L.: GL

State/Country: New Mexico/USA
Declination: 6.89°
Grid: East To Grid North
File name: S:\2015SU~1\MEWBOU~1\MO\REDHIL~1\12H.SVY
Date/Time: 04-Mar-15 / 08:37
Curve Name: Surface - 8700' M.D. (Rate Gyro)

MS SURVEY

We hereby certify that our survey data from Surface MD to 8700' MD is, to the best of our knowledge a true and accurate account of the well bore.

Joseph Brock 3/4/15
MS Energy Services Date

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 179.34
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	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.30	10.68	100.00	.26	.05	-.26	.26	10.68	.30
200.00	.02	37.39	200.00	.53	.11	-.53	.54	11.51	.28
300.00	.70	48.72	300.00	.95	.58	-.94	1.11	31.41	.68
400.00	.98	63.63	399.99	1.73	1.80	-1.71	2.50	46.21	.35
500.00	1.19	69.47	499.97	2.47	3.54	-2.43	4.32	55.08	.24
600.00	1.18	97.35	599.95	2.70	5.53	-2.64	6.16	63.96	.57
700.00	1.41	122.43	699.92	1.91	7.59	-1.83	7.83	75.86	.61
800.00	1.41	139.21	799.89	.32	9.44	-.21	9.44	88.05	.41
900.00	1.30	144.47	899.86	-1.53	10.90	1.66	11.01	98.01	.17

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
1000.00	1.30	143.04	999.84	-3.36	12.24	3.50	12.69	105.36	.03
1100.00	1.37	139.67	1099.81	-5.18	13.70	5.34	14.64	110.72	.11
1200.00	1.45	137.47	1199.78	-7.02	15.33	7.20	16.86	114.62	.10
1300.00	1.64	135.93	1299.75	-8.98	17.18	9.18	19.38	117.61	.19
1400.00	1.87	108.94	1399.70	-10.54	19.71	10.77	22.36	118.13	.85
1500.00	1.79	107.45	1499.65	-11.54	22.75	11.80	25.51	116.90	.09
1600.00	1.56	102.94	1599.61	-12.31	25.56	12.61	28.38	115.72	.26
1700.00	1.42	97.65	1699.57	-12.78	28.12	13.11	30.89	114.45	.20
1800.00	1.15	97.46	1799.55	-13.08	30.34	13.43	33.04	113.32	.27
1900.00	.98	100.36	1899.53	-13.36	32.18	13.73	34.84	112.55	.18
2000.00	.95	102.13	1999.52	-13.69	33.83	14.08	36.50	112.03	.04
2100.00	.88	92.89	2099.50	-13.90	35.41	14.31	38.04	111.44	.16
2200.00	.61	106.65	2199.49	-14.09	36.68	14.52	39.30	111.02	.32
2300.00	.34	101.08	2299.49	-14.30	37.49	14.73	40.12	110.89	.27
2400.00	.42	56.06	2399.49	-14.16	38.08	14.59	40.63	110.39	.30
2500.00	.36	33.09	2499.49	-13.69	38.56	14.13	40.91	109.55	.17
2600.00	.91	8.01	2599.48	-12.64	38.84	13.09	40.84	108.03	.60
2700.00	1.13	348.05	2699.46	-10.89	38.75	11.33	40.25	105.70	.41
2800.00	.61	294.87	2799.45	-9.70	38.06	10.14	39.27	104.30	.91
2900.00	1.06	249.46	2899.44	-9.80	36.71	10.22	37.99	104.95	.77
3000.00	1.02	224.43	2999.43	-10.76	35.22	11.17	36.83	106.99	.45
3100.00	.69	150.87	3099.42	-11.92	34.89	12.32	36.87	108.87	1.06
3200.00	.73	131.22	3199.41	-12.87	35.66	13.28	37.91	109.84	.25
3300.00	1.48	93.35	3299.39	-13.36	37.43	13.79	39.74	109.65	1.01
3400.00	1.88	87.45	3399.35	-13.37	40.36	13.83	42.51	108.32	.44
3500.00	2.32	79.30	3499.28	-12.92	43.99	13.42	45.84	106.36	.53
3600.00	2.23	85.60	3599.20	-12.39	47.91	12.94	49.49	104.50	.27
3700.00	2.19	80.80	3699.13	-11.94	51.74	12.53	53.10	102.99	.19
3800.00	2.19	82.44	3799.06	-11.38	55.52	12.02	56.67	101.58	.06

Surface - 8700' M.D. (Rate Gyro) File: S:\2015SU~1\MEWBOU~1\MO\REDHIL~1\12H.SVY

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
3900.00	3.03	100.49	3898.95	-11.61	60.01	12.30	61.13	100.95	1.17
4000.00	3.53	109.15	3998.79	-13.10	65.52	13.85	66.82	101.31	.70
4100.00	3.78	118.27	4098.59	-15.67	71.33	16.49	73.03	102.39	.63
4200.00	4.72	127.06	4198.31	-19.71	77.52	20.60	79.99	104.27	1.14
4300.00	5.40	132.61	4297.92	-25.38	84.26	26.35	88.00	106.76	.84
4400.00	4.64	134.05	4397.54	-31.38	90.64	32.42	95.91	109.09	.77
4500.00	4.39	138.09	4497.23	-37.04	96.10	38.14	102.99	111.08	.40
4600.00	4.04	141.87	4596.96	-42.66	100.83	43.81	109.48	112.93	.45
4700.00	4.24	141.98	4696.70	-48.34	105.28	49.55	115.85	114.66	.20
4800.00	4.34	146.22	4796.42	-54.40	109.66	55.66	122.41	116.38	.33
4900.00	4.49	145.58	4896.12	-60.77	113.98	62.08	129.17	118.07	.16
5000.00	4.76	146.48	4995.80	-67.46	118.48	68.82	136.34	119.65	.28
5100.00	5.10	146.90	5095.43	-74.64	123.20	76.05	144.05	121.21	.34
5200.00	5.44	147.14	5195.00	-82.35	128.20	83.82	152.37	122.71	.34
5300.00	5.92	147.92	5294.51	-90.70	133.51	92.23	161.40	124.19	.49
5400.00	5.87	148.39	5393.98	-99.42	138.93	101.02	170.84	125.59	.07
5500.00	5.95	148.15	5493.45	-108.18	144.35	109.83	180.38	126.85	.08
5600.00	6.03	149.29	5592.91	-117.10	149.76	118.81	190.11	128.02	.14
5700.00	6.13	150.90	5692.34	-126.28	155.04	128.06	199.96	129.16	.20
5800.00	5.94	152.04	5791.79	-135.51	160.07	137.35	209.73	130.25	.22
5900.00	5.58	151.74	5891.28	-144.37	164.79	146.26	219.09	131.22	.36
6000.00	3.97	143.45	5990.93	-151.43	169.16	153.37	227.04	131.84	1.75
6100.00	2.82	126.88	6090.76	-155.69	173.19	157.67	232.88	131.95	1.50
6200.00	1.33	86.36	6190.70	-157.09	176.31	159.11	236.14	131.70	2.00
6300.00	.22	38.65	6290.69	-156.87	177.59	158.90	236.95	131.45	1.19
6400.00	.09	238.93	6390.69	-156.76	177.64	158.79	236.92	131.43	.31
6500.00	.13	233.49	6490.68	-156.87	177.49	158.90	236.87	131.47	.04
6600.00	.18	287.90	6590.68	-156.89	177.24	158.92	236.70	131.51	.15
6700.00	.12	94.30	6690.68	-156.84	177.20	158.88	236.64	131.51	.30

Surface - 8700' M.D. (Rate Gyro) File: S:\2015SU~1\MEWBOU~1\MO\REDHIL~1\12H.SVY

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
6800.00	.15	87.49	6790.68	-156.85	177.43	158.88	236.82	131.48	.03
6900.00	.15	200.74	6890.68	-156.96	177.52	159.00	236.96	131.48	.25
7000.00	.12	226.10	6990.68	-157.16	177.40	159.19	237.00	131.54	.07
7100.00	.15	15.16	7090.68	-157.10	177.36	159.14	236.93	131.54	.26
7200.00	.12	27.51	7190.68	-156.89	177.44	158.92	236.85	131.48	.04
7300.00	.11	251.95	7290.68	-156.82	177.40	158.86	236.78	131.48	.21
7400.00	.16	40.16	7390.68	-156.75	177.39	158.78	236.72	131.46	.26
7500.00	.17	197.66	7490.68	-156.78	177.44	158.81	236.78	131.46	.32
7600.00	.18	215.00	7590.68	-157.05	177.30	159.08	236.86	131.53	.05
7700.00	.09	296.09	7690.68	-157.14	177.14	159.17	236.80	131.58	.19
7800.00	.14	194.95	7790.68	-157.23	177.04	159.26	236.78	131.61	.18
7900.00	.05	320.08	7890.68	-157.31	176.98	159.34	236.79	131.63	.17
8000.00	.08	9.86	7990.68	-157.21	176.97	159.24	236.71	131.62	.06
8100.00	.08	11.85	8090.68	-157.07	176.99	159.10	236.64	131.59	.00
8200.00	.10	20.68	8190.68	-156.92	177.04	158.95	236.57	131.55	.02
8300.00	.14	329.66	8290.68	-156.74	177.01	158.76	236.43	131.52	.11
8400.00	.26	346.50	8390.68	-156.41	176.89	158.44	236.12	131.48	.13
8500.00	.22	309.10	8490.68	-156.07	176.69	158.09	235.75	131.45	.16
8600.00	.84	273.31	8590.68	-155.90	175.81	157.92	234.98	131.57	.67
Last Survey Depth Recorded									
8700.00	1.00	299.25	8690.66	-155.44	174.32	157.43	233.55	131.72	.44