



October 28, 2016

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
Oryx 14 B3DM Federal Com #001H
Antelope Ridge; Bone Spring, West
Lea County, New Mexico
API# 30-025-43424

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>
Michael Stanley	Original Hole	9,726ft. to 15,699ft .	10-05-16 to 10-16-16	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\Oryx 14 B3DM Fed Com #1H\M161072

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

Oryx 14 B3DM Fed Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 14-23S-34E Oryx 14 B3DM Fed Com 1H
Well: Oryx 14 B3DM Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Oryx 14 B3DM Fed Com 1H
TVD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
MD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	Section 14-23S-34E Oryx 14 B3DM Fed Com 1H		
Site Position:		Northing:	478,076.60 usft
From:	Map	Easting:	773,893.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 40.447 N
		Longitude:	103° 26' 48.469 W
		Grid Convergence:	0.47 °

Well	Oryx 14 B3DM Fed Com 1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			25.0 usft
			Latitude:
			32° 18' 40.447 N
			Longitude:
			103° 26' 48.469 W
			Ground Level:
			3,373.0 usft

Wellbore	Original Hole					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	IGRF2015	9/21/2016	6.98	60.17	48,079.52676854	

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	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	139.45	

Oryx 14 B3DM Fed Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 14-23S-34E Oryx 14 B3DM Fed Com 1H
Well: Oryx 14 B3DM Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Oryx 14 B3DM Fed Com 1H
TVD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
MD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program		Date 10/17/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	9,580.2	Phoenix Tech Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
9,726.0	15,750.0	MWD Survey #2 (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)
9,580.2	1.88	294.19	9,566.3	-31.0	26.5	40.8	40.8	139.45	0.00
9,726.0	1.50	260.20	9,712.0	-30.4	22.5	37.7	37.8	143.49	0.72
9,820.0	1.30	265.30	9,806.0	-30.7	20.2	36.4	36.7	146.62	0.25
9,914.0	1.30	268.90	9,900.0	-30.8	18.1	35.1	35.7	149.57	0.09
10,007.0	1.20	283.90	9,993.0	-30.6	16.1	33.7	34.5	152.25	0.37
10,101.0	1.10	283.60	10,086.9	-30.1	14.2	32.1	33.3	154.68	0.11
10,194.0	0.90	276.60	10,179.9	-29.8	12.7	30.9	32.4	157.00	0.25
10,288.0	0.70	273.30	10,273.9	-29.7	11.3	29.9	31.8	159.09	0.22
10,381.0	0.90	245.20	10,366.9	-30.0	10.1	29.4	31.6	161.35	0.47
10,475.0	1.10	227.50	10,460.9	-30.9	8.8	29.2	32.1	164.13	0.39
10,568.0	1.40	219.30	10,553.9	-32.4	7.4	29.4	33.2	167.12	0.37
10,661.0	2.90	207.40	10,646.8	-35.3	5.6	30.5	35.8	170.99	1.67
10,692.0	6.50	190.30	10,677.7	-37.8	4.9	31.9	38.1	172.57	12.34
10,724.0	10.40	187.10	10,709.3	-42.4	4.2	35.0	42.6	174.28	12.27
10,755.0	13.50	180.10	10,739.7	-48.8	3.9	39.6	49.0	175.44	11.02
10,786.0	16.00	178.30	10,769.6	-56.7	4.0	45.7	56.8	175.95	8.20
10,817.0	18.30	176.50	10,799.3	-65.8	4.4	52.9	66.0	176.14	7.61
10,848.0	20.70	176.10	10,828.5	-76.2	5.1	61.2	76.3	176.16	7.75
10,879.0	22.90	177.90	10,857.3	-87.7	5.7	70.3	87.8	176.28	7.42
10,910.0	24.80	179.40	10,885.6	-100.2	6.0	80.0	100.4	176.58	6.43
10,942.0	26.40	180.80	10,914.5	-114.0	6.0	90.5	114.2	177.01	5.35

Oryx 14 B3DM Fed Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 14-23S-34E Oryx 14 B3DM Fed Com 1H
Well: Oryx 14 B3DM Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Oryx 14 B3DM Fed Com 1H
TVD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
MD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
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)
10,973.0	27.80	180.90	10,942.1	-128.1	5.8	101.1	128.3	177.43	4.52
11,004.0	30.50	180.40	10,969.1	-143.2	5.6	112.5	143.3	177.77	8.74
11,035.0	33.30	178.60	10,995.5	-159.6	5.7	125.0	159.7	177.94	9.54
11,066.0	36.20	176.10	11,020.9	-177.3	6.6	139.0	177.4	177.88	10.42
11,097.0	37.80	174.20	11,045.7	-195.8	8.2	154.1	196.0	177.62	6.34
11,128.0	39.70	174.00	11,069.9	-215.1	10.1	170.1	215.4	177.30	6.14
11,160.0	42.00	175.10	11,094.1	-236.0	12.1	187.2	236.3	177.06	7.53
11,191.0	44.90	174.90	11,116.6	-257.2	14.0	204.5	257.6	176.89	9.37
11,222.0	47.30	176.10	11,138.1	-279.5	15.7	222.6	279.9	176.78	8.23
11,253.0	49.60	178.30	11,158.6	-302.6	16.9	240.9	303.1	176.81	9.12
11,284.0	52.10	179.80	11,178.2	-326.7	17.3	259.4	327.1	176.98	8.89
11,316.0	55.10	181.50	11,197.2	-352.4	17.0	278.8	352.8	177.25	10.30
11,347.0	58.20	182.50	11,214.2	-378.3	16.0	297.9	378.6	177.57	10.36
11,379.0	61.10	182.00	11,230.4	-405.9	15.0	318.1	406.2	177.89	9.16
11,410.0	63.70	180.40	11,244.8	-433.4	14.4	338.6	433.6	178.10	9.55
11,441.0	67.30	178.70	11,257.6	-461.6	14.6	360.2	461.8	178.19	12.64
11,472.0	70.90	177.60	11,268.7	-490.5	15.6	382.8	490.7	178.18	12.08
11,503.0	73.40	177.90	11,278.2	-520.0	16.7	406.0	520.2	178.16	8.12
11,535.0	76.00	178.20	11,286.6	-550.8	17.8	430.1	551.1	178.15	8.18
11,566.0	79.50	177.80	11,293.2	-581.1	18.8	453.8	581.4	178.14	11.36
11,580.0	80.50	177.80	11,295.6	-594.9	19.4	464.6	595.2	178.14	7.14
11,615.0	81.80	178.70	11,301.0	-629.4	20.4	491.5	629.8	178.14	4.50
11,647.0	82.90	178.10	11,305.3	-661.1	21.3	516.2	661.5	178.16	3.91
11,678.0	84.50	178.70	11,308.7	-691.9	22.2	540.2	692.3	178.17	5.51
11,710.0	87.70	179.30	11,310.8	-723.9	22.7	564.8	724.2	178.20	10.17
11,741.0	89.90	179.60	11,311.5	-754.8	23.0	588.5	755.2	178.25	7.16
11,772.0	91.30	180.10	11,311.2	-785.8	23.1	612.1	786.2	178.32	4.80

Oryx 14 B3DM Fed Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 14-23S-34E Oryx 14 B3DM Fed Com 1H
Well: Oryx 14 B3DM Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Oryx 14 B3DM Fed Com 1H
TVD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
MD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
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)
11,834.0	91.60	180.90	11,309.6	-847.8	22.6	658.9	848.1	178.48	1.38
11,928.0	91.00	180.40	11,307.5	-941.8	21.5	729.6	942.0	178.69	0.83
12,021.0	87.90	179.20	11,308.4	-1,034.8	21.8	800.4	1,035.0	178.79	3.57
12,115.0	90.90	179.60	11,309.3	-1,128.8	22.8	872.5	1,129.0	178.84	3.22
12,208.0	92.90	180.60	11,306.3	-1,221.7	22.6	943.0	1,221.9	178.94	2.40
12,302.0	91.40	179.90	11,302.7	-1,315.6	22.2	1,014.1	1,315.8	179.03	1.76
12,395.0	92.20	180.70	11,299.8	-1,408.6	21.7	1,084.4	1,408.7	179.12	1.22
12,489.0	90.90	179.40	11,297.3	-1,502.5	21.7	1,155.8	1,502.7	179.17	1.96
12,582.0	91.60	179.90	11,295.2	-1,595.5	22.2	1,226.8	1,595.7	179.20	0.92
12,676.0	89.00	180.90	11,294.7	-1,689.5	21.6	1,297.8	1,689.6	179.27	2.96
12,769.0	90.20	181.10	11,295.4	-1,782.5	19.9	1,367.4	1,782.6	179.36	1.31
12,863.0	91.70	181.90	11,293.8	-1,876.4	17.5	1,437.2	1,876.5	179.47	1.81
12,956.0	93.40	183.00	11,289.7	-1,969.3	13.5	1,505.1	1,969.3	179.61	2.18
13,050.0	91.60	181.30	11,285.6	-2,063.1	10.0	1,574.1	2,063.1	179.72	2.63
13,144.0	90.50	180.60	11,283.9	-2,157.1	8.4	1,644.5	2,157.1	179.78	1.39
13,237.0	88.90	180.80	11,284.4	-2,250.0	7.3	1,714.4	2,250.1	179.81	1.73
13,331.0	90.40	181.40	11,284.9	-2,344.0	5.5	1,784.7	2,344.0	179.87	1.72
13,424.0	91.50	181.40	11,283.4	-2,437.0	3.2	1,853.8	2,437.0	179.92	1.18
13,518.0	92.10	181.60	11,280.4	-2,530.9	0.8	1,923.6	2,530.9	179.98	0.67
13,611.0	91.50	181.10	11,277.5	-2,623.8	-1.4	1,992.8	2,623.8	180.03	0.84
13,705.0	89.80	182.20	11,276.5	-2,717.8	-4.1	2,062.4	2,717.8	180.09	2.15
13,798.0	89.40	181.40	11,277.1	-2,810.7	-7.1	2,131.1	2,810.7	180.14	0.96
13,892.0	89.40	180.10	11,278.1	-2,904.7	-8.3	2,201.7	2,904.7	180.16	1.38
13,986.0	89.60	179.40	11,278.9	-2,998.7	-7.9	2,273.4	2,998.7	180.15	0.77
14,079.0	88.50	179.20	11,280.5	-3,091.7	-6.7	2,344.8	3,091.7	180.12	1.20
14,173.0	90.20	178.00	11,281.5	-3,185.7	-4.4	2,417.7	3,185.7	180.08	2.21
14,267.0	90.30	178.50	11,281.1	-3,279.6	-1.6	2,491.0	3,279.6	180.03	0.54

Oryx 14 B3DM Fed Com #1H

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 14-23S-34E Oryx 14 B3DM Fed Com 1H
Well: Oryx 14 B3DM Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Oryx 14 B3DM Fed Com 1H
TVD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
MD Reference: 3373 +25 @ 3398.0usft (Patterson 250)
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)
14,360.0	91.10	180.40	11,280.0	-3,372.6	-0.7	2,562.2	3,372.6	180.01	2.22
14,454.0	89.90	180.90	11,279.2	-3,466.6	-1.7	2,632.9	3,466.6	180.03	1.38
14,547.0	89.80	181.10	11,279.4	-3,559.6	-3.4	2,702.5	3,559.6	180.05	0.24
14,641.0	89.30	183.40	11,280.1	-3,653.5	-7.1	2,771.5	3,653.5	180.11	2.50
14,734.0	88.90	182.80	11,281.6	-3,746.3	-12.1	2,838.8	3,746.4	180.18	0.78
14,828.0	90.40	183.70	11,282.2	-3,840.2	-17.4	2,906.6	3,840.2	180.26	1.86
14,921.0	89.70	181.70	11,282.1	-3,933.1	-21.8	2,974.3	3,933.1	180.32	2.28
15,015.0	87.20	180.40	11,284.6	-4,027.0	-23.5	3,044.6	4,027.1	180.33	3.00
15,108.0	86.90	179.00	11,289.4	-4,119.9	-23.0	3,115.5	4,119.9	180.32	1.54
15,202.0	88.00	177.10	11,293.6	-4,213.7	-19.8	3,188.9	4,213.8	180.27	2.33
15,295.0	88.40	176.80	11,296.5	-4,306.5	-14.9	3,262.6	4,306.6	180.20	0.54
15,389.0	90.70	176.30	11,297.3	-4,400.4	-9.2	3,337.6	4,400.4	180.12	2.50
15,483.0	90.00	175.80	11,296.7	-4,494.1	-2.8	3,413.0	4,494.1	180.04	0.92
15,576.0	89.10	174.30	11,297.4	-4,586.8	5.3	3,488.7	4,586.8	179.93	1.88
15,670.0	89.70	174.90	11,298.4	-4,680.4	14.1	3,565.5	4,680.4	179.83	0.90
15,699.0	89.30	175.00	11,298.7	-4,709.3	16.7	3,589.1	4,709.3	179.80	1.42
15,750.0	89.30	175.00	11,299.3	-4,760.1	21.1	3,630.6	4,760.1	179.75	0.00

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
15,750.0	11,299.3	-4,760.1	21.1	15750' MD Projected to Bit



October 28, 2016

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 October 05, 2016, through October 16, 2016 conduct or supervise the taking of a SEDS Original MWD Survey from a depth of 9,726 feet to a depth of 15,699 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 Oryx 14 B3DM Federal Com #001H well, API # 30-025-43424 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.

A handwritten signature in cursive script that reads "Todd Estes". The signature is written in dark ink and is positioned above a horizontal line.

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