



February 23, 2017

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
Fuller 14 23 B2LM Federal Com #001H
Corral Canyon; Bone Spring, South
Eddy County, New Mexico
API# 30-015-43858

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>
Bill Wallace	Original Hole	514ft. to 16,355ft.	01-20-17 to 02-07-17	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\Fuller 14 23 B2LM Federal Com #1H\M171004

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



NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 30 2017

RECEIVED

February 23, 2017

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 January 20, 2017, through February 07, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 514 feet to a depth of 16,355 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 Fuller 14 23 B2LM Federal Com #001H well, API # 30-015-43858 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.

A handwritten signature in cursive script, appearing to read "Todd Estes", written over a horizontal line.

Todd Estes

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P.O. Box 1250

Montgomery, TX 77356

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



Microsoft MWD Surveys



Company: Newbould Oil Company
Project: Eddy County, New Mexico
Site: Section 14-23-26S-29E Fuller 14-23B2LM Fed Co.
Well: Fuller 14-23 B2LM Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 B2LM Fed Com #1H
TVD Reference: 2936 + 27 @ 2963 Ousft (Patterson 245)
MD Reference: 2936 + 27 @ 2963 Ousft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program Date 2/7/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
40.0	400.0	Rig Surveys (Original Hole)	MWD	MWD v3: standard declination
514.0	16,400.0	MWD Survey (Original Hole)	MWD	MWD v3: standard declination

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Tie-In
	400.0	1.60	94.00	399.9	-0.5	5.9	5.9	95.32	
	514.0	1.90	116.90	513.9	-1.5	9.2	9.3	99.38	
	639.0	0.50	144.50	638.8	-2.9	11.3	11.7	104.34	
	763.0	0.10	173.40	762.8	-3.4	11.7	12.1	106.46	
	881.0	0.40	148.30	860.8	-3.8	11.8	12.4	107.88	
	957.0	0.50	147.40	956.8	-4.5	12.2	13.0	110.01	
	1,052.0	0.40	117.40	1,051.8	-5.0	12.8	13.7	111.24	
	1,147.0	0.60	98.90	1,146.8	-5.2	13.5	14.5	110.96	
	1,242.0	0.50	112.80	1,241.8	-5.4	14.4	15.4	110.62	
	1,337.0	0.80	116.30	1,336.8	-5.9	15.4	16.5	110.90	
	1,433.0	0.80	119.60	1,432.8	-6.5	16.6	17.8	111.43	
	1,528.0	0.60	136.90	1,527.8	-7.2	17.5	18.9	112.37	
	1,623.0	0.40	112.00	1,622.8	-7.7	18.1	19.7	112.96	
	1,718.0	0.40	102.90	1,717.8	-7.9	18.8	20.4	112.78	
	1,813.0	0.30	123.0	1,812.8	-7.7	19.2	20.6	111.95	
	1,911.0	0.50	257.0	1,910.8	-7.1	19.4	20.6	110.06	
	2,007.0	0.70	10.00	2,006.8	-6.1	19.7	20.6	107.29	
	2,102.0	1.00	53.0	2,101.8	-4.7	19.9	20.4	103.40	
	2,197.0	1.40	351.80	2,196.8	-2.8	19.8	20.0	97.93	
	2,291.0	0.20	325.20	2,290.8	-1.5	19.5	19.6	94.35	
	2,387.0	0.50	154.40	2,386.7	-1.7	19.6	19.7	95.03	



Microsoft MWD Surveys



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Wellbore: Original Hole
Design: Original Hole

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Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
2,482.0	0.90	135.10	2,481.7	-2.6	20.3	20.5	97.37
2,576.0	1.20	120.00	2,575.7	-3.6	21.7	22.0	99.54
2,672.0	1.50	118.50	2,671.7	-4.7	23.6	24.1	101.34
2,767.0	0.90	123.10	2,766.7	-5.7	25.4	26.0	102.76
2,862.0	1.10	122.60	2,861.7	-6.6	26.8	27.6	103.94
2,925.0	0.40	135.60	2,924.7	-7.1	27.4	28.3	104.57
2,990.0	0.40	162.80	2,989.7	-7.5	27.6	28.6	105.19
3,085.0	0.20	142.00	3,084.7	-8.0	27.8	29.0	105.94
3,181.0	0.10	265.70	3,180.7	-8.1	27.9	29.0	106.19
3,276.0	0.30	284.00	3,275.7	-8.0	27.5	28.7	106.27
3,372.0	0.50	320.60	3,371.7	-7.7	27.0	28.1	105.80
3,467.0	0.60	336.20	3,466.6	-6.9	26.6	27.4	104.51
3,562.0	0.50	340.30	3,561.6	-6.0	26.2	26.9	102.95
3,657.0	0.40	332.70	3,656.6	-5.3	25.9	26.5	101.65
3,752.0	0.70	300.70	3,751.6	-4.8	25.3	25.7	100.65
3,847.0	0.60	334.70	3,846.6	-4.0	24.6	24.9	99.27
3,941.0	0.80	298.50	3,940.6	-3.3	23.8	24.0	97.78
4,037.0	0.70	261.90	4,036.6	-3.0	22.6	22.8	97.59
4,102.0	0.70	271.90	4,101.6	-3.1	21.8	22.0	97.97
4,197.0	0.70	269.90	4,196.6	-3.0	20.7	20.9	98.36
4,293.0	0.70	267.00	4,292.6	-3.1	19.5	19.7	98.95
4,388.0	0.50	254.60	4,387.6	-3.2	18.5	18.8	99.84
4,483.0	0.40	262.40	4,482.6	-3.4	17.8	18.1	100.71
4,578.0	0.50	253.40	4,577.6	-3.5	17.1	17.4	101.68
4,673.0	0.60	258.20	4,672.6	-3.7	16.2	16.6	103.04
4,768.0	0.70	260.40	4,767.6	-3.9	15.1	15.6	104.63
4,864.0	0.70	254.60	4,863.6	-4.2	14.0	14.6	106.72



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
4,960.0	0.70	232.20	4,959.6	-4.7	12.9	13.8	110.01
5,055.0	0.70	214.70	5,054.6	-5.5	12.2	13.4	114.53
5,150.0	1.00	210.20	5,149.5	-6.7	11.4	13.3	120.57
5,245.0	0.90	181.70	5,244.5	-8.2	11.0	13.7	126.79
5,340.0	1.20	179.90	5,339.5	-9.9	10.9	14.8	132.24
5,435.0	1.50	186.00	5,434.5	-12.2	10.8	16.3	138.37
5,530.0	0.90	212.90	5,529.5	-14.0	10.3	17.4	143.77
5,625.0	0.90	235.90	5,624.5	-15.1	9.3	17.7	148.44
5,720.0	0.70	222.20	5,719.4	-15.9	8.3	17.9	152.61
5,815.0	1.00	206.70	5,814.4	-17.1	7.5	18.7	156.34
5,911.0	1.00	213.20	5,910.4	-18.6	6.7	19.7	160.26
6,006.0	1.00	188.10	6,005.4	-20.1	6.1	21.0	163.12
6,101.0	0.70	188.30	6,100.4	-21.5	5.9	22.3	164.66
6,196.0	0.90	190.00	6,195.4	-22.8	5.7	23.5	166.01
6,291.0	1.10	165.80	6,290.4	-24.4	5.8	25.1	166.70
6,386.0	1.10	173.70	6,385.4	-26.2	6.1	26.9	166.90
6,482.0	1.30	180.70	6,481.3	-28.2	6.2	28.9	167.63
6,574.0	1.30	195.30	6,573.3	-30.2	5.9	30.8	168.97
6,669.0	1.70	177.70	6,668.3	-32.7	5.7	33.2	170.17
6,763.0	0.60	201.60	6,762.3	-34.5	5.5	35.0	170.89
6,858.0	1.10	184.80	6,857.3	-35.9	5.3	36.3	171.64
6,952.0	1.40	172.20	6,951.2	-37.9	5.4	38.3	171.96
7,047.0	1.90	172.60	7,046.2	-40.7	5.7	41.1	171.99
7,143.0	1.30	162.80	7,142.2	-43.3	6.2	43.7	171.79
7,238.0	0.80	166.70	7,237.1	-44.9	6.7	45.4	171.50
7,333.0	1.00	165.60	7,332.1	-46.4	7.1	46.9	171.33
7,428.0	1.30	175.10	7,427.1	-48.3	7.4	48.8	171.31



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7,523.0	0.70	180.00	7,522.1	-49.9	7.5	50.5	171.49
7,619.0	0.70	202.80	7,618.1	-51.0	7.2	51.6	171.93
7,714.0	0.50	254.40	7,713.1	-51.7	6.6	52.1	172.71
7,809.0	0.30	234.80	7,808.1	-52.0	6.0	52.3	173.40
7,905.0	0.40	172.50	7,904.1	-52.4	5.9	52.8	173.63
7,961.0	0.40	176.20	7,960.1	-52.8	5.9	53.1	173.64
8,056.0	0.40	154.60	8,055.1	-53.4	6.1	53.8	173.54
8,151.0	0.50	163.50	8,150.1	-54.1	6.3	54.5	173.35
8,183.0	3.60	174.10	8,182.0	-55.3	6.5	55.7	173.34
8,215.0	6.80	175.20	8,213.9	-58.2	6.7	58.6	173.41
8,247.0	9.40	174.80	8,245.6	-62.7	7.1	63.1	173.52
8,279.0	14.20	173.80	8,276.9	-69.2	7.8	69.6	173.59
8,311.0	16.70	168.50	8,307.7	-77.6	9.1	78.1	173.30
8,342.0	18.80	167.80	8,337.3	-86.8	11.1	87.5	172.74
8,374.0	22.00	171.50	8,367.3	-97.8	13.0	98.7	172.41
8,406.0	26.00	172.20	8,396.5	-110.7	14.9	111.7	172.35
8,438.0	28.20	172.10	8,425.0	-125.1	16.9	126.2	172.32
8,470.0	30.20	171.30	8,452.9	-140.6	19.1	141.9	172.25
8,502.0	32.30	173.90	8,480.3	-157.0	21.2	158.5	172.29
8,533.0	35.60	176.10	8,506.0	-174.3	22.7	175.7	172.56
8,565.0	39.70	179.10	8,531.3	-193.8	23.5	195.2	173.07
8,597.0	42.30	179.10	8,555.5	-214.8	23.9	216.1	173.66
8,629.0	45.30	176.50	8,578.5	-236.9	24.7	238.2	174.04
8,660.0	49.20	175.00	8,599.6	-259.6	26.4	260.9	174.19
8,692.0	54.40	176.20	8,619.4	-284.7	28.3	286.1	174.31
8,724.0	57.70	176.60	8,637.2	-311.1	30.0	312.6	174.49
8,756.0	61.10	177.70	8,653.5	-338.7	31.4	340.1	174.71



Microsoft MWD Surveys



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Wellbore: Original Hole
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Survey

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8,788.0	64.60	179.00	8,688.1	-367.1	32.2	368.5	174.99
8,819.0	67.50	179.60	8,680.7	-395.4	32.5	396.8	175.30
8,851.0	70.70	180.20	8,692.1	-425.3	32.6	426.6	175.62
8,883.0	73.10	179.10	8,702.1	-455.7	32.8	456.9	175.89
8,915.0	75.60	178.80	8,710.7	-486.5	33.3	487.7	176.08
8,946.0	78.20	178.70	8,717.7	-516.7	34.0	517.8	176.24
8,977.0	80.80	178.10	8,723.4	-547.2	34.8	548.3	176.36
9,010.0	83.30	178.20	8,727.9	-579.9	35.9	581.0	176.46
9,041.0	86.00	178.80	8,730.8	-610.7	36.7	611.8	176.56
9,048.0	86.50	178.80	8,731.3	-617.7	36.9	618.8	176.59
9,124.0	90.40	178.20	8,733.3	-693.6	38.8	694.7	176.79
9,220.0	91.20	178.50	8,732.0	-789.6	41.6	790.7	176.98
9,316.0	91.60	180.60	8,729.7	-885.5	42.4	886.6	177.26
9,411.0	88.50	179.10	8,729.6	-980.5	42.6	981.4	177.51
9,507.0	89.90	180.60	8,730.9	-1,076.5	42.9	1,077.4	177.72
9,602.0	87.40	180.90	8,733.1	-1,171.5	41.6	1,172.2	177.97
9,698.0	87.00	180.40	8,737.8	-1,267.3	40.5	1,268.0	178.17
9,793.0	86.00	180.50	8,743.6	-1,362.2	39.8	1,362.7	178.33
9,889.0	87.80	178.50	8,748.8	-1,458.0	40.6	1,458.6	178.40
9,985.0	88.70	178.30	8,751.8	-1,553.9	43.3	1,554.5	178.40
10,080.0	89.90	177.90	8,752.9	-1,648.9	46.5	1,649.5	178.39
10,175.0	90.20	177.10	8,752.8	-1,743.8	50.6	1,744.5	178.34
10,271.0	89.90	177.30	8,752.8	-1,839.7	55.3	1,840.5	178.28
10,366.0	90.50	177.70	8,752.4	-1,934.6	59.4	1,935.5	178.24
10,462.0	90.20	177.90	8,751.8	-2,030.5	63.1	2,031.5	178.22
10,557.0	91.40	179.20	8,750.5	-2,125.5	65.5	2,126.5	178.23
10,652.0	90.00	179.10	8,749.3	-2,220.4	66.9	2,221.4	178.27



Microsoft
MWD Surveys



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	15,894.0	89.90	180.00	8,731.7	-7,461.1	58.9	7,461.3	179.55
	15,988.0	90.10	180.30	8,731.7	-7,555.1	58.6	7,555.3	179.56
	16,083.0	92.00	181.30	8,729.9	-7,650.1	57.3	7,650.3	179.57
	16,178.0	92.40	181.60	8,726.3	-7,745.0	54.9	7,745.1	179.59
	16,273.0	92.90	181.90	8,721.9	-7,839.8	52.0	7,840.0	179.62
	16,355.0	92.50	181.80	8,718.0	-7,921.7	49.4	7,921.8	179.64
	16,400.0	92.50	181.80	8,716.0	-7,966.6	48.0	7,966.8	179.66
16400' MD Projected to Bit								

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/S (usft)	+E/W (usft)	Comment
16,400.0	8,716.0	-7,966.6	48.0	16400' MD Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Fuller 14-23 B2LM Fed Com #1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 245



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.97°

GEODETTIC ZONE: New Mexico East 3001
2936 + 27 @ 2963.0usft (Patterson 245)
GROUND ELEVATION: 2936.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	379411.30	615210.40	32° 2' 33.256 N	103° 57' 41.435 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8256.5	0.00	0.00	8256.5	0.0	0.0	0.00	0.00	0.0	
3	9007.4	90.11	179.91	8734.0	-478.4	0.8	12.00	179.91	478.4	PBHL Fuller 14-23 B2LM Fed Com 1H
4	16503.0	90.11	179.91	8720.0	-7973.9	12.6	0.00	0.00	7973.9	

SHL: 2450' FNL; 330' FWL
Section 14-26S-29E
PBHL: 330' FSL; 330' FWL
Section 323-26S-29E

