

STRYKER

DIRECTIONAL

December 7, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 19 2019

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

RECEIVED

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Prince 31 W1DA Federal Com #2H
Purple Sage; Wolfcamp Gas
Eddy County, New Mexico
API# 30-015-45069

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>
Victor Anguiano	Original Hole	92ft. to 14,617ft.	10-21-18 to 11-05-18	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.



Eric 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\Prince 31 W1DA Fed Com #2H\M181138

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

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



December 7, 2018

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of October 21, 2018 through November 5, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 92feet to a depth of 14,617feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Prince 31 W1DA Federal Com #2H, well API # 30-015-45069 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 black ink, appearing to read "Eric Estes", written over a horizontal line.

Eric Estes

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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 31-24S-29E Prince 31 W1DA Fed Com 2
Well: Prince 31 W1DA Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Prince 31 W1DA Fed Com 2H
TVD Reference: 2912 + 27 @ 2939.0usft (Patterson 560)
MD Reference: 2912 + 27 @ 2939.0usft (Patterson 560)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983		System Datum: Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 31-24S-29E Prince 31 W1DA Fed Com 2H		
Site Position:		Northing:	428,916.90 usft
From:	Map	Easting:	634,821.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 43.714 N
		Longitude:	104° 1' 52.220 W
		Grid Convergence:	0.16 °

Well	Prince 31 W1DA Fed Com 2H		
Well Position	+N/-S	0.0 usft	Northing: 428,916.90 usft
	+E/-W	0.0 usft	Easting: 634,821.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 10' 43.714 N
		Longitude:	104° 1' 52.220 W
		Ground Level:	2,912.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	09/21/18	7.03
			Dip Angle (°) 59.93
			Field Strength (nT) 47,736.42588759

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)
	0.0	0.0	0.0
			Direction (°) 229.16

Survey Program	Date 11/05/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
92.0	14,685.0	MWD Survey (Original Hole)	MWD
			Description MWD v3:standard declination



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0.0	0.00	0.00	0.0	2,939.0	0.0	0.0	0.0	0.00
92.0	0.60	164.80	92.0	2,847.0	-0.5	0.1	0.5	164.80
157.0	1.00	159.50	157.0	2,782.0	-1.3	0.4	1.4	162.64
212.0	2.50	174.90	212.0	2,727.0	-3.0	0.7	3.0	166.94
297.0	1.80	198.20	296.9	2,642.1	-6.1	0.4	6.1	175.89
392.0	4.30	153.10	391.8	2,547.2	-10.7	1.6	10.8	171.57
562.0	2.30	184.80	561.5	2,377.5	-19.8	4.2	20.2	168.06
741.0	1.20	194.70	740.4	2,198.6	-25.2	3.4	25.4	172.29
933.0	0.80	205.20	932.4	2,006.6	-28.3	2.3	28.4	175.31
1,122.0	1.20	355.40	1,121.4	1,817.6	-27.5	1.6	27.6	176.67
1,311.0	3.00	347.60	1,310.2	1,628.8	-20.7	0.4	20.7	178.94
1,501.0	1.10	345.10	1,500.1	1,438.9	-14.1	-1.2	14.2	184.68
1,690.0	2.00	340.50	1,689.0	1,250.0	-9.2	-2.7	9.8	196.40
1,879.0	1.50	349.00	1,877.9	1,061.1	-3.7	-4.3	5.7	229.16
2,068.0	0.50	66.50	2,066.9	872.1	-1.0	-4.0	4.1	256.61
2,258.0	1.00	132.11	2,256.9	682.1	-1.7	-2.0	2.7	229.33
2,447.0	2.00	140.50	2,445.8	493.2	-5.4	1.3	5.5	166.42
2,641.0	1.30	153.00	2,639.8	299.2	-10.0	4.5	10.9	155.91
2,748.0	1.30	153.00	2,746.7	192.3	-12.1	5.6	13.3	155.38
2,937.0	2.90	228.00	2,935.6	3.4	-17.2	3.0	17.5	170.20
3,127.0	3.00	248.70	3,125.4	-186.4	-22.3	-5.2	22.9	193.22
3,316.0	2.90	252.40	3,314.1	-375.1	-25.5	-14.4	29.3	209.45
3,506.0	3.30	250.90	3,503.8	-564.8	-28.7	-24.1	37.5	220.03
3,695.0	3.30	247.30	3,692.5	-753.5	-32.6	-34.3	47.3	226.44
3,884.0	2.90	245.50	3,881.3	-942.3	-36.7	-43.7	57.0	229.96
4,074.0	4.40	255.20	4,070.9	-1,131.9	-40.6	-55.1	68.4	233.64
4,263.0	4.40	251.90	4,259.3	-1,320.3	-44.7	-69.0	82.2	237.08



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4,452.0	4.20	247.10	4,447.8	-1,508.8	-49.6	-82.3	96.1	238.91
4,642.0	4.30	243.70	4,637.3	-1,698.3	-55.5	-95.1	110.1	239.73
4,831.0	4.30	237.20	4,825.7	-1,886.7	-62.4	-107.4	124.2	239.82
5,021.0	3.90	252.00	5,015.2	-2,076.2	-68.3	-119.5	137.6	240.25
5,210.0	3.40	251.00	5,203.9	-2,264.9	-72.1	-130.9	149.5	241.15
5,400.0	3.60	245.60	5,393.5	-2,454.5	-76.4	-141.7	161.0	241.66
5,589.0	3.60	278.10	5,582.2	-2,643.2	-78.0	-152.9	171.7	242.97
5,779.0	4.00	277.00	5,771.7	-2,832.7	-76.4	-165.4	182.2	245.22
5,968.0	2.40	243.20	5,960.5	-3,021.5	-77.4	-175.5	191.8	246.21
6,157.0	3.00	270.50	6,149.2	-3,210.2	-79.1	-184.0	200.3	246.74
6,347.0	2.90	245.70	6,339.0	-3,400.0	-81.0	-193.3	209.6	247.26
6,536.0	3.10	256.00	6,527.7	-3,588.7	-84.2	-202.7	219.5	247.43
6,726.0	2.80	268.40	6,717.5	-3,778.5	-85.6	-212.3	228.9	248.04
6,915.0	3.00	250.60	6,906.3	-3,967.3	-87.4	-221.6	238.2	248.48
7,104.0	2.70	268.30	7,095.0	-4,156.0	-89.2	-230.7	247.3	248.87
7,293.0	2.90	252.80	7,283.8	-4,344.8	-90.7	-239.7	256.3	249.27
7,482.0	2.90	256.90	7,472.6	-4,533.6	-93.2	-248.9	265.8	249.47
7,671.0	2.90	253.40	7,661.3	-4,722.3	-95.7	-258.1	275.3	249.67
7,861.0	3.10	232.20	7,851.1	-4,912.1	-100.2	-266.8	285.0	249.42
8,050.0	3.40	245.80	8,039.8	-5,100.8	-105.6	-276.0	295.5	249.06
8,240.0	2.70	233.70	8,229.5	-5,290.5	-110.6	-284.7	305.4	248.78
8,429.0	2.60	235.40	8,418.3	-5,479.3	-115.6	-291.8	313.9	248.38
8,618.0	4.30	234.00	8,606.9	-5,667.9	-122.2	-301.1	325.0	247.90
8,808.0	3.60	255.30	8,796.5	-5,857.5	-127.9	-312.6	337.8	247.74
8,997.0	0.80	227.70	8,985.3	-6,046.3	-130.3	-319.3	344.9	247.80
9,186.0	0.80	235.60	9,174.3	-6,235.3	-132.0	-321.4	347.4	247.68
9,358.0	0.90	227.10	9,346.3	-6,407.3	-133.6	-323.4	349.9	247.56



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9,361.7	0.78	223.61	9,350.0	-6,411.0	-133.6	-323.4	349.9	247.56
B.B. Prince 31 W1DA Fed Com 2H								
9,412.0	1.10	85.60	9,400.3	-6,461.3	-133.8	-323.2	349.8	247.51
9,444.0	4.20	77.40	9,432.3	-6,493.3	-133.5	-321.7	348.3	247.46
9,475.0	7.30	74.70	9,463.1	-6,524.1	-132.8	-318.7	345.3	247.39
9,507.0	10.50	75.00	9,494.7	-6,555.7	-131.5	-313.9	340.4	247.28
9,538.0	14.70	75.20	9,525.0	-6,586.0	-129.7	-307.4	333.7	247.12
9,570.0	18.20	74.80	9,555.7	-6,616.7	-127.4	-298.7	324.7	246.90
9,602.0	21.70	76.40	9,585.7	-6,646.7	-124.7	-288.1	313.9	246.60
9,633.0	25.80	81.00	9,614.1	-6,675.1	-122.3	-275.8	301.7	246.09
9,665.0	29.10	82.20	9,642.5	-6,703.5	-120.1	-261.2	287.5	245.31
9,696.0	31.50	80.60	9,669.3	-6,730.3	-117.8	-245.8	272.6	244.40
9,728.0	34.80	80.60	9,696.0	-6,757.0	-114.9	-228.5	255.8	243.30
9,759.0	37.40	82.70	9,721.1	-6,782.1	-112.3	-210.5	238.5	241.92
9,791.0	40.30	86.10	9,746.0	-6,807.0	-110.3	-190.5	220.1	239.92
9,822.0	44.50	89.50	9,768.9	-6,829.9	-109.6	-169.6	201.9	237.14
9,854.0	47.10	91.50	9,791.2	-6,852.2	-109.8	-146.7	183.2	233.19
9,886.0	49.50	91.50	9,812.5	-6,873.5	-110.4	-122.8	165.1	228.04
9,917.0	52.40	91.20	9,832.0	-6,893.0	-111.0	-98.7	148.5	221.66
9,949.0	55.00	90.80	9,851.0	-6,912.0	-111.4	-72.9	133.2	213.21
9,980.0	57.60	90.50	9,868.2	-6,929.2	-111.7	-47.2	121.3	202.89
10,012.0	59.60	89.30	9,884.8	-6,945.8	-111.7	-19.8	113.4	190.08
10,043.0	62.10	88.40	9,899.9	-6,960.9	-111.1	7.2	111.3	176.28
10,075.0	64.50	88.20	9,914.3	-6,975.3	-110.3	35.8	115.9	162.02
10,106.0	67.50	89.00	9,926.9	-6,987.9	-109.6	64.1	126.9	149.67
10,138.0	71.20	86.60	9,938.2	-6,999.2	-108.4	94.0	143.5	139.07
10,169.0	74.90	86.10	9,947.2	-7,008.2	-106.5	123.6	163.2	130.76



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10,201.0	77.90	86.10	9,954.8	-7,015.8	-104.4	154.6	186.6	124.03
10,212.0	78.50	86.20	9,957.0	-7,018.0	-103.7	165.4	195.2	122.09
10,331.0	85.40	83.40	9,973.7	-7,034.7	-93.0	282.6	297.5	108.21
10,394.0	86.90	84.70	9,977.9	-7,038.9	-86.5	345.1	355.8	104.07
10,489.0	89.80	89.80	9,980.6	-7,041.6	-81.9	440.0	447.5	100.55
10,584.0	89.90	90.20	9,980.9	-7,041.9	-81.9	535.0	541.2	98.71
10,621.6	89.62	90.32	9,981.0	-7,042.0	-82.1	572.5	578.4	98.16
LP Prince 31 W1DA Fed Com 2H								
10,679.0	89.20	90.50	9,981.6	-7,042.6	-82.5	630.0	635.3	97.46
10,773.0	87.10	89.00	9,984.7	-7,045.7	-82.1	723.9	728.5	96.47
10,868.0	89.50	89.40	9,987.5	-7,048.5	-80.8	818.8	822.8	95.63
10,962.0	89.00	86.90	9,988.7	-7,049.7	-77.7	912.8	916.1	94.87
11,057.0	89.70	87.90	9,989.8	-7,050.8	-73.4	1,007.7	1,010.3	94.17
11,152.0	90.20	88.60	9,989.9	-7,050.9	-70.5	1,102.6	1,104.9	93.66
11,246.0	91.70	90.90	9,988.3	-7,049.3	-70.1	1,196.6	1,198.7	93.35
11,341.0	92.30	90.80	9,985.0	-7,046.0	-71.5	1,291.5	1,293.5	93.17
11,436.0	88.10	89.40	9,984.7	-7,045.7	-71.7	1,386.5	1,388.4	92.96
11,530.0	87.70	89.90	9,988.1	-7,049.1	-71.1	1,480.4	1,482.1	92.75
11,625.0	89.20	91.50	9,990.7	-7,051.7	-72.3	1,575.4	1,577.0	92.63
11,719.0	90.60	93.60	9,990.9	-7,051.9	-76.5	1,669.3	1,671.0	92.62
11,814.0	89.40	94.80	9,990.9	-7,051.9	-83.4	1,764.0	1,766.0	92.71
11,909.0	88.40	97.20	9,992.7	-7,053.7	-93.3	1,858.5	1,860.8	92.88
12,003.0	85.70	95.40	9,997.5	-7,058.5	-103.7	1,951.8	1,954.5	93.04
12,098.0	84.80	90.50	10,005.4	-7,066.4	-108.5	2,046.3	2,049.2	93.04
12,193.0	85.10	89.00	10,013.7	-7,074.7	-108.1	2,140.9	2,143.7	92.89
12,287.0	85.10	86.10	10,021.8	-7,082.8	-104.1	2,234.5	2,236.9	92.67
12,382.0	88.10	83.70	10,027.4	-7,088.4	-95.7	2,328.9	2,330.9	92.35



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12,477.0	91.70	85.10	10,027.6	-7,088.6	-86.4	2,423.5	2,425.0	92.04
12,571.0	92.40	86.00	10,024.2	-7,085.2	-79.1	2,517.1	2,518.4	91.80
12,666.0	93.80	90.10	10,019.1	-7,080.1	-75.9	2,611.9	2,613.0	91.66
12,760.0	92.00	91.60	10,014.3	-7,075.3	-77.3	2,705.8	2,706.9	91.64
12,855.0	92.00	91.10	10,011.0	-7,072.0	-79.5	2,800.7	2,801.8	91.63
12,950.0	87.20	93.40	10,011.7	-7,072.7	-83.2	2,895.6	2,896.8	91.65
13,044.0	86.10	92.70	10,017.2	-7,078.2	-88.2	2,989.3	2,990.6	91.69
13,139.0	87.30	91.60	10,022.6	-7,083.6	-91.8	3,084.0	3,085.4	91.70
13,234.0	90.30	91.30	10,024.6	-7,085.6	-94.2	3,179.0	3,180.4	91.70
13,328.0	90.50	92.20	10,024.0	-7,085.0	-97.1	3,272.9	3,274.4	91.70
13,423.0	90.20	92.40	10,023.4	-7,084.4	-100.9	3,367.9	3,369.4	91.72
13,517.0	89.60	92.00	10,023.5	-7,084.5	-104.5	3,461.8	3,463.4	91.73
13,612.0	90.20	91.80	10,023.7	-7,084.7	-107.6	3,556.7	3,558.4	91.73
13,707.0	88.70	92.20	10,024.6	-7,085.6	-111.0	3,651.7	3,653.3	91.74
13,801.0	88.10	92.20	10,027.3	-7,088.3	-114.6	3,745.6	3,747.3	91.75
13,896.0	86.30	91.30	10,031.9	-7,092.9	-117.5	3,840.4	3,842.2	91.75
13,991.0	85.30	90.80	10,038.8	-7,099.8	-119.2	3,935.1	3,936.9	91.74
14,086.0	85.90	89.70	10,046.1	-7,107.1	-119.6	4,029.8	4,031.6	91.70
14,181.0	89.10	89.90	10,050.3	-7,111.3	-119.3	4,124.7	4,126.5	91.66
14,276.0	91.50	88.40	10,049.8	-7,110.8	-117.9	4,219.7	4,221.4	91.60
14,371.0	88.80	87.00	10,049.5	-7,110.5	-114.1	4,314.6	4,316.1	91.51
14,466.0	89.20	86.40	10,051.2	-7,112.2	-108.6	4,409.5	4,410.8	91.41
14,560.0	88.60	84.30	10,053.0	-7,114.0	-101.0	4,503.1	4,504.3	91.28
14,617.0	88.10	84.70	10,054.6	-7,115.6	-95.5	4,559.8	4,560.8	91.20
14,685.0	88.10	84.70	10,056.9	-7,117.9	-89.2	4,627.5	4,628.4	91.10

14685.0' MD Projected to bit - PBHL Prince 31 W1DA Fed Com 2H



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 31-24S-29E Prince 31 W1DA Fed Com 2
Well: Prince 31 W1DA Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Prince 31 W1DA Fed Com 2H
TVD Reference: 2912 + 27 @ 2939.0usft (Patterson 560)
MD Reference: 2912 + 27 @ 2939.0usft (Patterson 560)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,685.0	10,056.9	-89.2	4,627.5	14685.0' MD Projected to bit



COMPANY: Mewbourne Oil Company
WELL: Prince 31 W1DA Fed Com 2H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 560

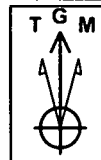


OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.87°

GEODETIC ZONE: New Mexico Eastern Zone											Slot
2912 + 27 @ 2939.0usft (Patterson 560)											
GROUND ELEVATION: 2912.0											
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude						
0.0	0.0	428916.90	634821.80	32° 10' 43.714 N	104° 1' 52.220 W						
PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2700.0	0.00	0.00	2700.0	0.0	0.0	0.00	0.00	0.0		
3	2907.0	3.11	246.18	2906.9	-2.3	-5.1	1.50	246.18	-5.1		
4	9152.4	3.11	246.18	9143.1	-138.9	-314.6	0.00	0.00	-310.7		
5	9359.4	0.00	0.00	9350.0	-141.2	-319.8	1.50	180.00	-315.8	B.B. Prince 31 W1DA Fed Com 2H	
6	9408.5	0.00	0.00	9399.1	-141.2	-319.8	0.00	0.00	-315.8		
7	10298.8	89.03	89.84	9972.0	-139.8	243.5	10.00	89.84	247.3		
8	14690.2	89.03	89.84	10046.0	-127.4	4634.3	0.00	0.00	4636.0	PBHL Prince 31 W1DA Fed Com 2H	

SHL: 850' FNL; 330' FWL
Section 31-24S-29E
PBHL: 990' FNL; 330' FEL
Section 31-24S-29E



Azimuths to Grid North
True North: -0.16°
Magnetic North: 6.87°
Magnetic Field
Strength: 47736.4snT
Dip Angle: 59.93°
Date: 09/21/2018
Model: IGRF2015

