



September 11, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 31 2019

RECEIVED

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
Night Ranger 28 W0AP Fee #002H
Purple Sage, Wolfcamp "Y" Sand (W0)
Eddy County, New Mexico
API# 30-015-44285

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	100ft. to 14,233ft.	07-13-18 to 07-29-18	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\Night Ranger 28 W0AP Fee #2H\MI81086

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



September 11, 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 July 13, 2018, through July 29, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 100 feet to a depth of 14,233 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 Night Ranger 28 W0AP Fee #002H, well API # **30-015-44285** 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.

Eric Estes

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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 28-23S-28E Night Ranger 28 W0AP Fee
Well: Night Ranger 28 W0AP Fee #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Night Ranger 28 W0AP Fee #2H
TVD Reference: 3036 +27 @ 3063.0usft (Patterson 560)
MD Reference: 3036 +27 @ 3063.0usft (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 28-23S-28E Night Ranger 28 W0AP Fee #2H				
Site Position:		Northing:	466,693.40 usft	Latitude:	32° 16' 57.978 N
From:	Map	Easting:	617,823.40 usft	Longitude:	104° 5' 8.998 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	Night Ranger 28 W0AP Fee #2H					
Well Position	+N/-S	0.0 usft	Northing:	466,693.40 usft	Latitude:	32° 16' 57.978 N
	+E/-W	0.0 usft	Easting:	617,823.40 usft	Longitude:	104° 5' 8.998 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level:	3,036.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/8/2018	7.09	60.02	47.821.23443794

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	49.91	

Survey Program	Date 7/30/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	14,285.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination



Microsoft
MWD Surveys



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
0.0	0.00	0.00	0.0	3,063.0	0.0	0.0	0.0	0.00
100.0	1.09	355.79	100.0	2,963.0	0.9	-0.1	1.0	355.79
200.0	1.40	359.62	200.0	2,863.0	3.1	-0.1	3.1	357.29
382.0	2.40	348.90	381.9	2,681.1	9.1	-0.9	9.1	354.36
471.0	0.40	327.10	470.8	2,592.2	11.2	-1.4	11.3	352.74
559.0	0.40	309.00	558.8	2,504.2	11.6	-1.8	11.8	351.06
649.0	0.50	306.20	648.8	2,414.2	12.1	-2.4	12.3	348.78
741.0	0.60	311.10	740.8	2,322.2	12.6	-3.1	13.0	346.28
836.0	0.50	341.70	835.8	2,227.2	13.3	-3.6	13.8	344.95
1,025.0	0.50	30.60	1,024.8	2,038.2	14.8	-3.4	15.2	347.00
1,214.0	0.80	7.60	1,213.8	1,849.2	16.8	-2.8	17.1	350.47
1,404.0	0.80	15.60	1,403.8	1,659.2	19.4	-2.3	19.6	353.26
1,593.0	0.80	4.90	1,592.8	1,470.2	22.0	-1.8	22.1	355.25
1,782.0	0.90	1.90	1,781.7	1,281.3	24.8	-1.7	24.9	356.16
1,972.0	1.30	85.90	1,971.7	1,091.3	26.5	0.5	26.5	1.16
2,161.0	2.00	99.20	2,160.6	902.4	26.1	5.9	26.7	12.80
2,350.0	1.10	131.50	2,349.6	713.4	24.4	10.5	26.5	23.41
2,504.0	1.50	130.50	2,503.5	559.5	22.1	13.2	25.7	30.85
2,555.0	1.70	133.30	2,554.5	508.5	21.1	14.2	25.5	34.00
2,745.0	1.50	112.20	2,744.4	318.6	18.2	18.6	26.0	45.55
2,934.0	3.40	72.80	2,933.3	129.7	19.0	26.2	32.4	54.14
3,029.0	3.50	50.40	3,028.1	34.9	21.6	31.2	37.9	55.22
3,123.0	3.70	45.50	3,121.9	-58.9	25.6	35.5	43.8	54.23
3,218.0	3.60	47.60	3,216.7	-153.7	29.8	39.9	49.8	53.30
3,312.0	3.60	50.60	3,310.5	-247.5	33.6	44.4	55.7	52.86
3,407.0	3.40	46.20	3,405.4	-342.4	37.5	48.7	61.5	52.44
3,502.0	3.20	48.30	3,500.2	-437.2	41.2	52.7	66.9	52.02



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3,596.0	2.90	45.70	3,594.1	-531.1	44.8	56.4	71.9	51.67
3,691.0	3.00	50.80	3,688.9	-625.9	47.8	60.0	76.8	51.46
3,786.0	3.00	51.30	3,783.8	-720.8	51.0	63.9	81.7	51.43
3,880.0	2.60	45.60	3,877.7	-814.7	54.0	67.4	86.3	51.28
3,975.0	2.80	49.80	3,972.6	-909.6	57.0	70.7	90.8	51.11
4,070.0	2.30	44.80	4,067.5	-1,004.5	59.8	73.8	95.0	50.95
4,164.0	3.60	44.10	4,161.4	-1,098.4	63.3	77.2	99.8	50.64
4,259.0	3.30	50.60	4,256.2	-1,193.2	67.2	81.4	105.5	50.45
4,354.0	3.60	52.00	4,351.0	-1,288.0	70.8	85.8	111.2	50.50
4,448.0	3.70	49.20	4,444.8	-1,381.8	74.6	90.4	117.2	50.50
4,543.0	3.30	47.00	4,539.7	-1,476.7	78.4	94.8	123.0	50.39
4,638.0	3.20	49.70	4,634.5	-1,571.5	82.0	98.8	128.4	50.30
4,732.0	3.00	47.70	4,728.4	-1,665.4	85.4	102.6	133.5	50.24
4,827.0	2.80	37.20	4,823.3	-1,760.3	88.9	105.8	138.2	49.98
4,922.0	3.00	57.50	4,918.1	-1,855.1	92.1	109.3	142.9	49.91
5,016.0	2.80	57.60	5,012.0	-1,949.0	94.6	113.4	147.6	50.15
5,111.0	2.50	57.00	5,106.9	-2,043.9	97.0	117.1	152.0	50.36
5,205.0	2.70	60.10	5,200.8	-2,137.8	99.2	120.7	156.2	50.58
5,300.0	2.30	57.50	5,295.7	-2,232.7	101.3	124.2	160.3	50.80
5,395.0	3.20	49.10	5,390.6	-2,327.6	104.1	127.9	164.9	50.85
5,489.0	3.10	54.60	5,484.5	-2,421.5	107.3	131.9	170.0	50.88
5,584.0	3.10	50.60	5,579.3	-2,516.3	110.4	136.0	175.2	50.93
5,678.0	2.90	57.00	5,673.2	-2,610.2	113.3	139.9	180.1	51.00
5,773.0	2.60	56.10	5,768.1	-2,705.1	115.8	143.7	184.6	51.14
5,867.0	2.40	59.40	5,862.0	-2,799.0	118.0	147.2	188.7	51.28
5,962.0	2.70	57.00	5,956.9	-2,893.9	120.3	150.8	192.9	51.43
6,057.0	3.20	41.10	6,051.8	-2,988.8	123.5	154.4	197.7	51.36



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6,151.0	3.10	39.10	6,145.6	-3,082.6	127.4	157.7	202.8	51.07
6,246.0	2.60	40.10	6,240.5	-3,177.5	131.1	160.8	207.4	50.81
6,341.0	3.40	46.60	6,335.4	-3,272.4	134.6	164.2	212.3	50.65
6,436.0	2.60	43.30	6,430.3	-3,367.3	138.1	167.7	217.3	50.52
6,531.0	3.20	31.10	6,525.1	-3,462.1	142.0	170.6	221.9	50.22
6,625.0	3.60	36.20	6,619.0	-3,556.0	146.6	173.7	227.3	49.83
6,720.0	3.80	46.20	6,713.8	-3,650.8	151.2	177.7	233.3	49.61
6,814.0	2.90	31.80	6,807.6	-3,744.6	155.4	181.2	238.7	49.39
6,909.0	2.90	50.20	6,902.5	-3,839.5	159.0	184.3	243.4	49.22
7,003.0	3.90	73.80	6,996.3	-3,933.3	161.4	189.2	248.7	49.54
7,098.0	4.40	70.60	7,091.1	-4,028.1	163.5	195.7	255.0	50.13
7,193.0	2.70	51.60	7,185.9	-4,122.9	166.1	200.9	260.7	50.42
7,287.0	2.40	51.80	7,279.8	-4,216.8	168.7	204.2	264.9	50.44
7,382.0	2.10	42.80	7,374.7	-4,311.7	171.2	207.0	268.6	50.41
7,476.0	3.00	62.50	7,468.7	-4,405.7	173.6	210.3	272.7	50.47
7,571.0	3.00	74.70	7,563.5	-4,500.5	175.4	214.9	277.4	50.78
7,665.0	2.80	66.40	7,657.4	-4,594.4	177.0	219.4	281.9	51.11
7,760.0	2.90	68.70	7,752.3	-4,689.3	178.8	223.8	286.4	51.38
7,855.0	3.00	59.00	7,847.2	-4,784.2	180.9	228.1	291.2	51.59
7,949.0	1.20	74.90	7,941.1	-4,878.1	182.4	231.2	294.5	51.72
8,044.0	3.30	50.80	8,036.0	-4,973.0	184.4	234.3	298.1	51.79
8,138.0	3.00	50.00	8,129.9	-5,066.9	187.7	238.2	303.3	51.77
8,233.0	2.70	55.60	8,224.8	-5,161.8	190.6	242.0	308.0	51.78
8,327.0	1.60	39.70	8,318.7	-5,255.7	192.8	244.7	311.5	51.76
8,421.0	3.10	39.40	8,412.6	-5,349.6	195.8	247.1	315.3	51.61
8,516.0	3.30	41.00	8,507.5	-5,444.5	199.9	250.5	320.5	51.42
8,610.0	1.90	70.30	8,601.4	-5,538.4	202.4	253.8	324.6	51.42



Microsoft
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8,704.0	2.60	100.60	8,695.3	-5,632.3	202.6	257.3	327.5	51.79
8,798.0	1.80	131.90	8,789.2	-5,726.2	201.2	260.5	329.2	52.33
8,893.0	1.80	149.70	8,884.2	-5,821.2	198.9	262.4	329.3	52.84
8,908.4	1.77	150.60	8,899.6	-5,836.6	198.5	262.6	329.2	52.92
B.B. Night Ranger 28 W0AP Fee #2H								
8,987.0	1.60	155.80	8,978.1	-5,915.1	196.4	263.7	328.8	53.32
9,009.0	1.10	146.90	9,000.1	-5,937.1	196.0	263.9	328.7	53.41
9,093.0	1.80	145.10	9,084.1	-6,021.1	194.2	265.1	328.6	53.78
9,125.0	6.20	162.30	9,116.0	-6,053.0	192.1	265.9	328.1	54.15
9,156.0	10.70	166.70	9,146.7	-6,083.7	187.8	267.1	326.5	54.90
9,188.0	14.40	170.50	9,177.9	-6,114.9	180.9	268.4	323.7	56.02
9,219.0	19.10	175.20	9,207.6	-6,144.6	172.1	269.5	319.8	57.44
9,251.0	25.10	177.50	9,237.2	-6,174.2	160.1	270.2	314.1	59.36
9,282.0	29.20	179.00	9,264.8	-6,201.8	145.9	270.7	307.5	61.67
9,314.0	32.50	174.80	9,292.3	-6,229.3	129.6	271.6	300.9	64.50
9,345.0	36.00	179.00	9,317.9	-6,254.9	112.1	272.5	294.7	67.63
9,377.0	39.30	178.10	9,343.2	-6,280.2	92.6	273.0	288.3	71.26
9,408.0	41.50	177.80	9,366.8	-6,303.8	72.5	273.7	283.2	75.16
9,440.0	44.10	177.60	9,390.3	-6,327.3	50.8	274.6	279.2	79.52
9,471.0	49.10	178.50	9,411.6	-6,348.6	28.3	275.3	276.8	84.13
9,503.0	52.20	178.70	9,431.9	-6,368.9	3.6	275.9	276.0	89.26
9,534.0	54.30	178.30	9,450.4	-6,387.4	-21.3	276.6	277.4	94.40
9,566.0	56.30	178.30	9,468.7	-6,405.7	-47.6	277.4	281.4	99.73
9,597.0	58.60	177.00	9,485.3	-6,422.3	-73.7	278.5	288.0	104.82
9,629.0	60.50	176.60	9,501.6	-6,438.6	-101.2	280.0	297.7	109.87
9,660.0	63.90	175.80	9,516.0	-6,453.0	-128.6	281.8	309.8	114.52
9,692.0	67.60	174.90	9,529.2	-6,466.2	-157.6	284.2	325.0	119.02



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9,700.0	68.60	175.40	9,532.1	-6,469.1	-165.0	284.8	329.2	120.09
9,732.0	70.90	175.20	9,543.2	-6,480.2	-195.0	287.3	347.2	124.16
9,763.0	72.90	175.90	9,552.8	-6,489.8	-224.3	289.6	366.3	127.77
9,795.0	75.30	175.90	9,561.6	-6,498.6	-255.0	291.8	387.5	131.16
9,826.0	76.70	176.20	9,569.1	-6,506.1	-285.0	293.8	409.4	134.13
9,858.0	78.10	176.70	9,576.1	-6,513.1	-316.2	295.8	433.0	136.91
9,889.0	79.70	176.60	9,582.1	-6,519.1	-346.6	297.5	456.8	139.35
9,921.0	82.50	176.70	9,587.0	-6,524.0	-378.1	299.4	482.3	141.63
9,953.0	84.00	176.30	9,590.8	-6,527.8	-409.8	301.3	508.7	143.68
9,984.0	86.30	176.90	9,593.4	-6,530.4	-440.7	303.2	534.9	145.47
10,016.0	88.10	176.90	9,594.9	-6,531.9	-472.6	304.9	562.4	147.17
10,018.6	88.16	176.93	9,595.0	-6,532.0	-475.2	305.0	564.7	147.30
LP Night Ranger 28 W0AP Fee #2H								
10,110.0	90.20	177.80	9,596.3	-6,533.3	-566.5	309.2	645.4	151.37
10,205.0	89.10	178.50	9,596.9	-6,533.9	-661.4	312.3	731.4	154.72
10,299.0	89.50	180.00	9,598.1	-6,535.1	-755.4	313.5	817.9	157.46
10,394.0	89.70	181.00	9,598.7	-6,535.7	-850.4	312.7	906.1	159.81
10,489.0	89.90	181.70	9,599.1	-6,536.1	-945.4	310.5	995.0	161.82
10,583.0	92.00	180.40	9,597.5	-6,534.5	-1,039.3	308.7	1,084.2	163.46
10,678.0	91.50	180.60	9,594.6	-6,531.6	-1,134.3	307.9	1,175.3	164.81
10,772.0	90.90	178.60	9,592.6	-6,529.6	-1,228.2	308.6	1,266.4	165.90
10,867.0	91.00	179.80	9,591.1	-6,528.1	-1,323.2	309.9	1,359.0	166.82
10,961.0	88.90	177.10	9,591.1	-6,528.1	-1,417.2	312.4	1,451.2	167.57
11,056.0	88.80	178.10	9,593.1	-6,530.1	-1,512.1	316.4	1,544.8	168.18
11,150.0	89.50	178.40	9,594.4	-6,531.4	-1,606.0	319.3	1,637.4	168.76
11,245.0	91.20	178.30	9,593.9	-6,530.9	-1,701.0	322.0	1,731.2	169.28
11,339.0	92.90	178.30	9,590.5	-6,527.5	-1,794.9	324.8	1,824.0	169.74



COMPANY: Mewbourne Oil Company
WELL: Night Ranger 28 W0AP Fee #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 6.96°

GEODETIC ZONE: New Mexico Eastern Zone										
3038 +27 @ 3063.0usft (Patterson 560)										
GROUND ELEVATION: 3038.0										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
	0.0	0.0	466693.40	617823.40	32° 16' 57.978 N	104° 5' 8.998 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	2725.0	0.00	0.00	2725.0	0.0	0.0	0.00	0.00	0.0	
3	2907.7	3.20	50.58	2907.6	3.2	3.9	1.75	50.58	-2.9	
4	8898.1	3.20	50.58	8887.0	208.2	253.3	0.00	0.00	-188.2	
5	8909.2	0.00	0.00	8900.0	212.0	257.9	1.50	180.00	-191.6	B.B. Night Ranger 28 WDAP Fee #2H
6	9104.7	0.00	0.00	9095.5	212.0	257.9	0.00	0.00	-191.6	
7	9858.0	90.40	174.50	9573.0	-266.6	304.0	12.00	174.50	289.0	
8	10271.5	90.40	179.46	9570.1	-679.3	325.7	1.20	89.99	702.3	
9	14333.1	90.40	179.46	9542.0	-4740.6	363.9	0.00	0.00	4754.5	PBHL Night Ranger 28 WDAP Fee #2H

SHL: 220' FNL: 650' FEL
Section 28-23S-28E
PBHL: 330' FSL: 330' FEL
Section 28-23S-28E

