

STRYKER

DIRECTIONAL

June 19, 2019

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

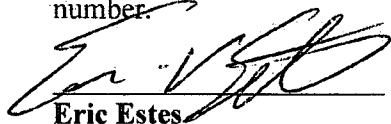
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Delaware Ranch 11 14 W1AP Fed Com
#2H
Purple Sage; Wolfcamp
Eddy County, New Mexico
API# 30-015-45185

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>
Greg Morris	Original Hole	742ft. to 19,547ft.	04-22-19 to 05-15-19	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\Delaware Ranch 11 14 W1AP Fed Com #2H\M191050

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

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



June 19, 2019

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 April 22, 2019, through May 15, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 742feet to a depth of 19,547feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Delaware Ranch 11-14 W1AP Federal Com #002H, well API # **30-015-45185** 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", is written over a horizontal line.

Eric 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



Wells Operator Data

OCD Permitting

[Home](#) > [Wells](#) > [Well Details](#)

30-015-45185 DELAWARE RANCH 11 14 W1AP FEDERAL COM #002H [322264]

General Well Information

Operator: [14744] MEWBOURNE OIL CO
Status: New **Direction:** Horizontal
Well Type: Gas **Multi-Lateral:** No
Work Type: New **Mineral Owner:** Federal
Surface Location: A-11-26S-28E 185 FNL 375 FEL **Surface Owner:** Federal
Lat/Long: 32.063906,-104.0504781 NAD83
GL Elevation: 2968
KB Elevation: **Sing/Mult Compl:** Single
DF Elevation: **Potash Waiver:** False

Proposed Formation and/or Notes

Depths

Proposed: 19835 **Total Vertical Depth:** 0
Measured Vertical Depth: 0 **Plugback Measured:** 0

Formation Tops

Formation	Top	Producing	Method Obtained
-----------	-----	-----------	-----------------

Event Dates

Initial APD Approval: 08/10/2018
Most Recent APD Approval: 08/21/2018 **Current APD Expiration:** 08/10/2020
APD Cancellation:
APD Extension Approval:
Spud: **Gas Capture Plan Received:** 08/17/2018
Approved Temporary **TA Expiration:**
Abandonment:
Shut In: **PNR Expiration:**
Plug and Abandoned Intent **Last MIT/BHT:**
Received:
Well Plugged:
Site Release:
Last Inspection:

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
----------------	----------	-------------	----------	-----------------	-----------	-------------	---------------	-----------

Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

4/11/2019

OCD Permitting - Well Details

	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
41 VARE H 11 14	#002H	[14744] MEWBOURNE OIL CO	New	Gas	New			
W1AP FEDERAL COM								

SIGN-IN HTL

Wells Operator Data

Comments

Operator

General Contact Information

Company: [14744] MEWBOURNE OIL CO
Address: P.O. Box 5270
 Hobbs, NM 88241
Country: U.S.A.
Main Phone: 575-393-5905
Main Fax: 575-393-7259

Central Contact

Name: Robin Terrell
Title: Hobbs Distric Manager
E-Mail Address: rterrell@mewbourne.com
Phone Number: 575-393-5905
Cell Number: 575-390-4816
Fax Number: 575-393-7259

Hobbs Contact

Name: Robin Terrell
Title:
E-Mail Address: rterrell@mewbourne.com
Phone Number: 575-393-5905
Cell Number: 575-390-4816
Fax Number: 575-393-7259

Artesia Contact

Name: Robin Terrell
Title:
E-Mail Address: rterrell@mewbourne.com
Phone Number: 575-393-5905
Cell Number: 575-390-4816
Fax Number: 575-393-7259

Pits

No Pits Found

Casing

No Casing Found

Well Completions

[98220] PURPLE SAGE; WOLFCAMP (GAS)

Status: New, Not Drilled
Bottomhole Location: P-14-26S-28E 330 FSL 330 FEL
Lat/Long: 32.0362702,-104.0504176 NAD83
Last Produced:



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11 14 W1AP #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968' + 27' @ 2995.0usft (Patterson 231)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968' + 27' @ 2995.0usft (Patterson 231)
Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)		
600.0	1.40	60.80	600.0	0.4	1.0	1.1	68.20	Tie-In	
742.0	2.60	62.40	741.9	2.7	5.4	6.0	62.97		
931.0	0.70	45.20	930.8	5.5	10.0	11.4	60.99		
1,120.0	0.60	56.40	1,119.8	6.9	11.6	13.5	59.32		
1,309.0	0.80	72.10	1,308.8	7.9	13.7	15.8	60.20		
1,499.0	0.90	101.60	1,498.8	8.0	16.4	18.3	64.16		
1,688.0	0.30	194.80	1,687.8	7.2	17.8	19.2	67.98		
1,877.0	0.70	229.80	1,876.8	6.0	16.8	17.8	70.42		
2,066.0	1.50	116.40	2,065.7	4.1	18.1	18.6	77.18		
2,256.0	0.70	156.80	2,255.7	1.9	20.8	20.9	84.66		
2,445.0	0.70	118.60	2,444.7	0.3	22.2	22.2	89.15		
2,537.0	0.70	110.00	2,536.7	-0.1	23.3	23.3	90.33		
2,587.0	0.40	108.90	2,586.7	-0.3	23.7	23.7	90.71		
2,776.0	2.50	334.60	2,775.6	3.2	22.6	22.8	81.89		
2,964.0	2.30	353.70	2,963.5	10.7	20.4	23.0	62.39		
3,154.0	3.20	353.80	3,153.2	19.7	19.4	27.7	44.52		
3,343.0	2.90	351.50	3,342.0	29.7	18.1	34.8	31.40		
3,534.0	3.60	354.20	3,532.7	40.4	16.8	43.8	22.57		
3,722.0	3.40	353.20	3,720.3	51.9	15.6	54.1	16.70		
3,911.0	3.70	12.70	3,909.0	63.4	16.2	65.4	14.37		
4,100.0	3.50	14.70	4,097.6	74.9	19.0	77.3	14.26		
4,288.0	2.60	16.30	4,285.3	84.5	21.7	87.3	14.39		
4,478.0	3.10	4.40	4,475.1	93.8	23.3	96.7	13.95		
4,668.0	3.30	11.90	4,664.8	104.3	24.8	107.2	13.39		
4,859.0	2.60	17.10	4,855.5	113.8	27.2	117.0	13.45		
5,048.0	2.20	19.60	5,044.4	121.3	29.7	124.9	13.76		
5,236.0	2.50	19.10	5,232.2	128.6	32.3	132.6	14.08		



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11 14 W1AP #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
5,426.0	2.80	20.60	5,422.0	136.8	35.2	141.3	14.44	
5,614.0	3.30	18.80	5,609.7	146.3	38.6	151.3	14.78	
5,804.0	2.90	9.70	5,799.5	156.2	41.2	161.5	14.77	
5,993.0	2.40	12.10	5,988.3	164.8	42.8	170.2	14.56	
6,182.0	0.90	9.50	6,177.2	170.1	43.9	175.7	14.47	
6,284.8	0.19	12.77	6,280.0	171.1	44.1	176.6	14.44	
B.B. Delaware Ranch 11/14 W1AP Fed Com 2H								
6,371.0	0.40	186.60	6,366.2	170.9	44.1	176.5	14.45	
6,561.0	1.10	144.80	6,556.2	168.8	45.0	174.7	14.94	
6,749.0	0.50	225.30	6,744.1	166.7	45.5	172.8	15.26	
6,938.0	0.60	308.70	6,933.1	166.7	44.1	172.5	14.82	
7,128.0	1.10	315.80	7,123.1	168.7	42.1	173.8	14.01	
7,318.0	1.50	350.10	7,313.1	172.4	40.4	177.1	13.18	
7,507.0	0.00	313.90	7,502.0	174.9	40.0	179.4	12.87	
7,696.0	0.80	114.70	7,691.0	174.3	41.2	179.1	13.28	
7,886.0	0.40	174.40	7,881.0	173.1	42.4	178.2	13.77	
8,075.0	1.00	233.60	8,070.0	171.5	41.2	176.3	13.50	
8,265.0	0.30	345.30	8,260.0	171.0	39.7	175.5	13.07	
8,454.0	0.60	46.20	8,449.0	172.1	40.3	176.8	13.17	
8,645.0	1.20	164.30	8,640.0	170.9	41.5	175.9	13.66	
8,834.0	1.00	135.40	8,829.0	167.8	43.2	173.3	14.45	
8,928.0	0.60	172.80	8,922.9	166.7	43.9	172.4	14.74	
8,999.0	0.60	186.00	8,993.9	166.0	43.9	171.7	14.81	
9,045.0	1.10	165.90	9,039.9	165.3	44.0	171.1	14.89	
9,092.0	5.90	170.80	9,086.8	162.5	44.5	168.5	15.30	
9,139.0	10.40	171.90	9,133.4	155.9	45.5	162.4	16.25	
9,186.0	15.80	175.30	9,179.1	145.3	46.6	152.6	17.77	



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11 14 W1AP #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Site:	Section 11, 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,234.0	21.10	178.10	9,224.6	130.2	47.4	138.5	20.01	
9,281.0	25.00	178.10	9,267.9	111.8	48.0	121.7	23.24	
9,329.0	28.50	178.40	9,310.7	90.2	48.7	102.5	28.35	
9,376.0	30.10	179.50	9,351.7	67.2	49.1	83.2	36.14	
9,423.0	35.10	180.60	9,391.3	41.9	49.0	64.5	49.50	
9,470.0	41.00	180.50	9,428.3	12.9	48.8	50.4	75.14	
9,517.0	46.40	179.10	9,462.3	-19.5	48.9	52.6	111.76	
9,564.0	51.50	179.40	9,493.1	-55.0	49.4	73.9	138.07	
9,612.0	55.80	180.50	9,521.6	-93.6	49.4	105.8	152.19	
9,659.0	59.60	180.60	9,546.7	-133.3	49.0	142.0	159.82	
9,706.0	62.60	181.00	9,569.4	-174.5	48.4	181.1	164.49	
9,753.0	65.90	182.30	9,589.8	-216.8	47.2	221.8	167.72	
9,801.0	68.80	182.40	9,608.3	-261.0	45.4	264.9	170.14	
9,821.0	70.90	182.40	9,615.2	-279.8	44.6	283.3	170.94	
9,877.0	76.30	182.30	9,631.0	-333.4	42.4	336.1	172.75	
9,899.0	77.80	181.80	9,635.9	-354.9	41.6	357.3	173.31	
9,930.0	80.00	181.00	9,641.9	-385.3	40.9	387.4	173.94	
9,962.0	83.60	179.60	9,646.4	-416.9	40.7	418.9	174.42	
9,994.0	85.40	178.30	9,649.5	-448.8	41.3	450.7	174.74	
10,025.0	86.70	177.90	9,651.6	-479.7	42.3	481.6	174.96	
10,057.0	89.30	177.50	9,652.8	-511.6	43.6	513.5	175.13	
10,118.2	93.15	177.89	9,651.4	-572.8	46.1	574.6	175.40	
LP Delaware Ranch 11/14 W1AP Fed Com 2H								
10,119.0	93.20	177.90	9,651.4	-573.6	46.1	575.4	175.40	
10,213.0	89.80	179.90	9,648.9	-667.5	47.9	669.2	175.90	
10,308.0	89.80	180.50	9,649.3	-762.5	47.6	764.0	176.43	
10,403.0	89.20	179.80	9,650.1	-857.5	47.3	858.8	176.84	



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11 14 W1AP #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
10,497.0	89.30	178.80	9,651.3	-951.5	48.5	952.7	177.08	
10,592.0	90.60	180.20	9,651.4	-1,046.5	49.3	1,047.6	177.30	
10,687.0	91.60	180.80	9,649.6	-1,141.4	48.5	1,142.5	177.57	
10,781.0	90.10	179.30	9,648.2	-1,235.4	48.4	1,236.4	177.76	
10,876.0	90.10	179.10	9,648.0	-1,330.4	49.7	1,331.3	177.86	
10,971.0	91.40	181.50	9,646.8	-1,425.4	49.2	1,426.3	178.02	
11,065.0	91.80	181.20	9,644.2	-1,519.3	47.0	1,520.1	178.23	
11,160.0	91.00	181.90	9,641.8	-1,614.3	44.4	1,614.9	178.42	
11,255.0	88.00	181.90	9,642.7	-1,709.2	41.3	1,709.7	178.62	
11,349.0	88.40	180.10	9,645.6	-1,803.1	39.6	1,803.6	178.74	
11,444.0	89.60	179.70	9,647.3	-1,898.1	39.8	1,898.5	178.80	
11,538.0	89.80	181.20	9,647.8	-1,992.1	39.1	1,992.5	178.88	
11,633.0	87.10	180.20	9,650.3	-2,087.1	37.9	2,087.4	178.96	
11,727.0	92.60	179.80	9,650.6	-2,181.0	37.9	2,181.4	179.00	
11,822.0	93.30	179.50	9,645.7	-2,275.9	38.5	2,276.2	179.03	
11,916.0	91.40	180.30	9,641.8	-2,369.8	38.7	2,370.1	179.07	
12,011.0	91.40	180.50	9,639.5	-2,464.8	38.0	2,465.1	179.12	
12,106.0	89.10	180.70	9,639.1	-2,559.8	37.0	2,560.0	179.17	
12,201.0	88.50	181.20	9,641.1	-2,654.7	35.4	2,655.0	179.24	
12,295.0	87.80	180.80	9,644.1	-2,748.7	33.8	2,748.9	179.30	
12,390.0	89.40	180.80	9,646.5	-2,843.6	32.5	2,843.8	179.35	
12,484.0	90.90	180.10	9,646.2	-2,937.6	31.7	2,937.8	179.38	
12,579.0	90.80	180.30	9,644.8	-3,032.6	31.4	3,032.8	179.41	
12,674.0	90.70	180.00	9,643.6	-3,127.6	31.1	3,127.8	179.43	
12,769.0	90.30	177.20	9,642.7	-3,222.6	33.5	3,222.7	179.41	
12,864.0	93.00	179.40	9,640.0	-3,317.5	36.3	3,317.7	179.37	
12,959.0	91.10	180.80	9,636.6	-3,412.4	36.1	3,412.6	179.39	



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11 14 W1AP #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
13,054.0	90.20	181.40	9,635.5	-3,507.4	34.3	3,507.5	179.44	
13,148.0	90.20	181.50	9,635.2	-3,601.3	31.9	3,601.5	179.49	
13,242.0	91.30	181.60	9,634.0	-3,695.3	29.4	3,695.4	179.54	
13,337.0	90.80	181.90	9,632.2	-3,790.2	26.5	3,790.3	179.60	
13,432.0	90.90	182.20	9,630.8	-3,885.2	23.1	3,885.2	179.66	
13,526.0	89.40	182.20	9,630.6	-3,979.1	19.5	3,979.1	179.72	
13,621.0	89.70	182.90	9,631.3	-4,074.0	15.2	4,074.0	179.79	
13,716.0	89.20	180.50	9,632.2	-4,168.9	12.4	4,169.0	179.83	
13,810.0	90.40	181.20	9,632.5	-4,262.9	11.0	4,262.9	179.85	
13,905.0	89.30	178.90	9,632.8	-4,357.9	10.9	4,357.9	179.86	
13,999.0	86.70	177.30	9,636.1	-4,451.8	14.1	4,451.8	179.82	
14,094.0	92.30	178.00	9,636.9	-4,546.7	17.9	4,546.7	179.77	
14,189.0	93.90	178.50	9,631.8	-4,641.5	20.8	4,641.5	179.74	
14,283.0	90.90	179.70	9,627.8	-4,735.4	22.3	4,735.4	179.73	
14,378.0	89.80	179.00	9,627.3	-4,830.4	23.4	4,830.4	179.72	
14,472.0	89.70	179.10	9,627.7	-4,924.4	25.0	4,924.4	179.71	
14,567.0	89.30	179.00	9,628.5	-5,019.4	26.5	5,019.4	179.70	
14,661.0	91.30	179.10	9,628.0	-5,113.3	28.1	5,113.4	179.69	
14,756.0	90.80	178.70	9,626.3	-5,208.3	29.9	5,208.4	179.67	
14,850.0	90.80	179.10	9,624.9	-5,302.3	31.7	5,302.4	179.66	
14,945.0	91.20	180.00	9,623.3	-5,397.3	32.5	5,397.4	179.66	
15,039.0	90.20	178.90	9,622.1	-5,491.2	33.4	5,491.3	179.65	
15,134.0	88.60	177.10	9,623.1	-5,586.2	36.7	5,586.3	179.62	
15,229.0	88.10	178.60	9,625.9	-5,681.1	40.2	5,681.2	179.59	
15,323.0	87.50	180.30	9,629.5	-5,775.0	41.1	5,775.1	179.59	
15,418.0	90.40	181.50	9,631.2	-5,869.9	39.6	5,870.1	179.61	
15,512.0	87.20	180.20	9,633.2	-5,963.9	38.3	5,964.0	179.63	



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11 14 W1AP #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Well:	Delaware Ranch 11-14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,607.0	91.60	182.20	9,634.2	-6,058.8	36.3	6,059.0	179.66
15,701.0	91.90	182.50	9,631.3	-6,152.7	32.4	6,152.8	179.70
15,794.0	91.30	181.80	9,628.7	-6,245.6	28.9	6,245.7	179.73
15,886.0	91.20	181.80	9,626.7	-6,337.6	26.0	6,337.6	179.76
15,979.0	92.80	181.50	9,623.5	-6,430.5	23.4	6,430.5	179.79
16,072.0	92.60	182.20	9,619.1	-6,523.3	20.4	6,523.3	179.82
16,164.0	90.90	181.20	9,616.3	-6,615.2	17.6	6,615.2	179.85
16,257.0	91.10	181.20	9,614.6	-6,708.2	15.7	6,708.2	179.87
16,349.0	90.90	179.40	9,613.0	-6,800.2	15.2	6,800.2	179.87
16,444.0	89.80	179.50	9,612.5	-6,895.2	16.1	6,895.2	179.87
16,538.0	89.60	179.30	9,613.0	-6,989.1	17.1	6,989.2	179.86
16,633.0	87.30	178.10	9,615.5	-7,084.1	19.3	7,084.1	179.84
16,727.0	90.90	181.30	9,617.0	-7,178.0	19.7	7,178.1	179.84
16,821.0	90.40	180.80	9,615.9	-7,272.0	18.0	7,272.0	179.86
16,915.0	90.30	180.80	9,615.4	-7,366.0	16.7	7,366.0	179.87
17,010.0	92.90	180.30	9,612.7	-7,461.0	15.8	7,461.0	179.88
17,104.0	96.00	182.00	9,605.4	-7,554.6	13.9	7,554.6	179.89
17,151.0	95.40	182.20	9,600.7	-7,601.4	12.2	7,601.4	179.91
17,199.0	91.30	180.90	9,597.9	-7,649.3	10.9	7,649.3	179.92
17,246.0	91.50	181.50	9,596.8	-7,696.2	9.9	7,696.2	179.93
17,294.0	87.50	179.60	9,597.2	-7,744.2	9.5	7,744.2	179.93
17,388.0	87.80	179.30	9,601.1	-7,838.1	10.4	7,838.1	179.92
17,483.0	85.90	177.90	9,606.3	-7,933.0	12.7	7,933.0	179.91
17,577.0	92.60	179.50	9,607.5	-8,026.9	14.8	8,026.9	179.89
17,672.0	90.60	179.80	9,604.9	-8,121.8	15.4	8,121.8	179.89
17,766.0	90.20	180.40	9,604.2	-8,215.8	15.2	8,215.8	179.89
17,861.0	90.30	180.90	9,603.8	-8,310.8	14.2	8,310.8	179.90



Microsoft MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11 14 W1AP #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 231)
Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000.

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
17,956.0	89.10	180.80	9,604.3	-8,405.8	12.7	8,405.8	179.91	
18,050.0	88.30	180.70	9,606.4	-8,499.8	11.5	8,499.8	179.92	
18,145.0	90.80	179.60	9,607.2	-8,594.8	11.3	8,594.8	179.92	
18,239.0	91.70	179.50	9,605.1	-8,688.7	12.0	8,688.7	179.92	
18,333.0	89.80	179.30	9,603.9	-8,782.7	13.0	8,782.7	179.92	
18,428.0	90.50	182.10	9,603.6	-8,877.7	11.8	8,877.7	179.92	
18,522.0	87.70	178.20	9,605.1	-8,971.7	11.6	8,971.7	179.93	
18,617.0	89.60	179.30	9,607.4	-9,066.6	13.7	9,066.6	179.91	
18,712.0	92.20	179.10	9,605.9	-9,161.6	15.0	9,161.6	179.91	
18,806.0	90.60	178.90	9,603.6	-9,255.5	16.6	9,255.5	179.90	
18,900.0	90.00	180.20	9,603.1	-9,349.5	17.4	9,349.5	179.89	
18,994.0	92.70	180.10	9,600.9	-9,443.5	17.1	9,443.5	179.90	
19,088.0	92.30	179.90	9,596.8	-9,537.4	17.1	9,537.4	179.90	
19,182.0	93.60	181.00	9,591.9	-9,631.3	16.4	9,631.3	179.90	
19,329.0	93.10	180.80	9,583.3	-9,778.0	14.1	9,778.0	179.92	
19,370.0	93.30	180.80	9,581.0	-9,818.9	13.5	9,818.9	179.92	
19,464.0	94.40	182.40	9,574.7	-9,912.7	10.9	9,912.7	179.94	
19,547.0	93.40	181.90	9,569.1	-9,995.4	7.8	9,995.4	179.96	
19,600.0	93.40	181.90	9,565.9	-10,048.3	6.0	10,048.3	179.97	

19600' Projected to Bit - PBHL Delaware Ranch 11/14 W1AP Fed Com 2H

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,600.0	9,565.9	-10,048.3	6.0	19600' Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Delaware Ranch 11 14 W1AP #2H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 231

STRYKER
DIRECTIONAL

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.84°

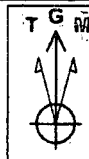
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico Eastern Zone
2968 + 27 @ 2995.0usft (Patterson 231)
GROUND ELEVATION: 2968.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	387101.40	628958.50	32° 3' 50.061 N	104° 3' 1.722 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	2650.0	0.00	0.00	2650.0	0.0	0.0	0.00	0.00	0.0	
3	2835.5	2.97	14.52	2835.4	4.6	1.2	1.60	14.52	-4.6	
4	6149.7	2.97	14.52	6145.2	170.8	44.2	0.00	0.00	-170.6	
5	6284.6	0.00	0.00	6280.0	174.1	45.1	2.20	180.00	-173.9	B.B. Delaware Ranch 11/14 W1AP Fed Com 2H
6	9087.7	0.00	0.00	9083.1	174.1	45.1	0.00	0.00	-173.9	
7	9991.2	90.36	180.00	9656.0	-402.4	45.1	10.00	180.00	402.6	
8	19842.1	90.36	180.00	9596.0	-10053.1	45.1	0.00	0.00	10053.2	PBHL Delaware Ranch 11/14 W1AP Fed Com 2H



Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.84°

Magnetic Field
Strength: 47630.6nT
Dip Angle: 69.82°
Date: 01/25/2019
Model: IGRF2015

SHL: 185' FNL: 375' FEL
Section 11-26S-28E
PBHL: 330' FSL: 330' FEL
Section 14-26S-28E

