

STRYKER

DIRECTIONAL

July 11, 2019

RECEIVED

AUG 29 2019

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

DISTRICT 7 - ARTESIA O.C.D.

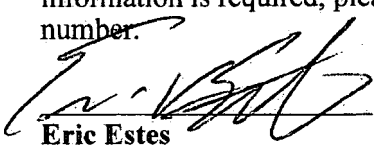
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Delaware Ranch 11 14 W2AP Fed Com #1H
Purple Sage; Wolfcamp
Eddy County, New Mexico
API# 30-015-44071

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	770ft. to 19,777ft.	05-21-19 to 06-13-19	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 W2AP Fed Com #1H\M191051

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

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



July 11, 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 May 21, 2019, through June 13, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 770feet to a depth of 19,777feet; 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 W2AP Federal Com #001H, well API # 30-015-44071 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

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



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11-14 W1AP Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Well:	Delaware Ranch 11-14 W1AP Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

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

Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W1AP
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Site Position:		Northing:	387,102.15 usft	Latitude:	32° 3' 50.070 N
From:	Map	Easting:	628,908.41 usft	Longitude:	104° 3' 2.304 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well:	Delaware Ranch 11-14 W1AP Fed Com 1H
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Well Position	+N-S	0.0 usft	Northing:	387,102.15 usft	Latitude:	32° 3' 50.070 N
	+E-W	0.0 usft	Easting:	628,908.41 usft	Longitude:	104° 3' 2.304 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,968.0 usft

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/16/19	6.97	59.82	47,607.89071968

Design:	Original Hole
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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	183.35

Survey Program		Date 06/14/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
770.0	19,830.0	MWD Survey #1 (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM



Microsoft
MWD Report



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Well:	Delaware Ranch 11-14 W1AP Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
615.0	1.50	69.30	614.9	-7.5	4.0	8.5	151.93	Tie-In
770.0	2.60	60.30	769.8	-5.0	9.0	10.3	119.39	
927.0	0.40	75.00	926.7	-3.1	12.6	13.0	104.00	
1,116.0	0.70	66.50	1,115.7	-2.5	14.3	14.5	99.95	
1,305.0	0.90	70.90	1,304.7	-1.6	16.7	16.8	95.32	
1,495.0	0.10	154.70	1,494.7	-1.2	18.2	18.3	93.83	
1,684.0	0.40	139.40	1,683.7	-1.9	18.7	18.8	95.70	
1,873.0	0.90	143.40	1,872.7	-3.6	20.0	20.3	100.08	
2,062.0	1.40	145.20	2,061.6	-6.6	22.2	23.2	106.65	
2,252.0	0.40	42.20	2,251.6	-8.1	24.0	25.3	108.57	
2,441.0	0.50	95.10	2,440.6	-7.6	25.3	26.4	106.84	
2,527.0	0.30	100.20	2,526.6	-7.7	25.9	27.0	106.63	
2,585.0	0.40	53.30	2,584.6	-7.6	26.2	27.3	106.25	
2,774.0	4.70	290.60	2,773.4	-4.5	19.4	20.0	103.05	
2,963.0	4.80	289.70	2,961.8	0.9	4.8	4.8	79.48	
3,153.0	4.50	289.40	3,151.1	6.0	-9.8	11.5	301.75	
3,342.0	5.50	293.60	3,339.4	12.1	-25.1	27.8	295.83	
3,532.0	5.00	291.20	3,528.6	18.8	-41.1	45.2	294.53	
3,721.0	4.90	291.10	3,716.9	24.7	-56.3	61.5	293.64	
3,909.0	5.10	292.40	3,904.2	30.7	-71.5	77.9	293.24	
4,098.0	5.20	289.40	4,092.4	36.8	-87.4	94.8	292.82	
4,287.0	3.70	302.30	4,280.9	42.9	-100.6	109.4	293.08	
4,477.0	4.70	298.00	4,470.4	49.8	-112.7	123.2	293.85	
4,667.0	4.30	290.90	4,659.8	56.0	-126.2	138.1	293.93	
4,857.0	4.10	284.00	4,849.3	60.2	-139.4	151.9	293.35	
5,047.0	4.50	295.60	5,038.7	65.1	-152.8	166.0	293.07	
5,235.0	3.70	289.20	5,226.2	70.2	-165.1	179.5	293.04	



Microsoft
MWD Report



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Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Well:	Delaware Ranch 11-14 W1AP Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
5,424.0	4.70	294.70	5,414.7	75.5	-177.9	193.3	292.98	
5,613.0	4.40	292.10	5,603.1	81.4	-191.7	208.3	293.02	
5,802.0	4.90	291.30	5,791.5	87.1	-205.9	223.6	292.93	
5,992.0	4.10	286.00	5,980.9	91.9	-220.0	238.4	292.67	
6,180.0	4.00	293.30	6,168.5	96.4	-232.5	251.7	292.51	
6,370.0	4.40	296.90	6,358.0	102.3	-245.1	265.6	292.65	
6,559.0	4.70	302.40	6,546.4	109.7	-258.1	280.4	293.03	
6,748.0	4.30	282.40	6,734.8	115.4	-271.5	295.0	293.02	
6,937.0	3.30	278.20	6,923.4	117.7	-283.9	307.3	292.52	
7,127.0	4.70	296.70	7,112.9	122.0	-296.2	320.3	292.38	
7,316.0	4.40	296.40	7,301.3	128.7	-309.6	335.3	292.56	
7,505.0	4.90	296.20	7,489.7	135.4	-323.4	350.6	292.73	
7,695.0	4.70	295.00	7,679.0	142.3	-337.7	366.5	292.85	
7,885.0	4.30	299.30	7,868.4	149.1	-351.0	381.3	293.02	
8,074.0	4.60	282.40	8,056.9	154.2	-364.6	395.8	292.93	
8,263.0	5.00	290.00	8,245.2	158.6	-379.7	411.5	292.68	
8,453.0	4.70	297.70	8,434.5	165.1	-394.4	427.5	292.71	
8,643.0	3.50	296.10	8,624.1	171.3	-406.5	441.1	292.85	
8,832.0	2.50	270.50	8,812.8	173.8	-415.8	450.6	292.69	
9,021.0	1.80	245.90	9,001.7	172.7	-422.6	456.5	292.22	
9,119.2	1.80	241.02	9,099.8	171.3	-425.4	458.5	291.93	
New Name B.B. Delaware Ranch 11 14 W1AP Fed Com 1H								
9,192.0	1.80	237.40	9,172.6	170.1	-427.3	459.9	291.71	
9,266.0	2.60	210.40	9,246.5	168.0	-429.1	460.9	291.38	
9,298.0	5.50	191.60	9,278.4	165.9	-429.8	460.7	291.11	
9,330.0	8.80	183.90	9,310.2	162.0	-430.3	459.8	290.63	
9,361.0	12.20	178.70	9,340.7	156.3	-430.4	457.9	289.96	



Microsoft
MWD Report



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Survey							
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9,393.0	15.10	177.00	9,371.8	148.8	-430.1	455.1	289.08
9,424.0	18.10	176.00	9,401.5	139.9	-429.5	451.8	288.04
9,455.0	21.50	172.80	9,430.6	129.5	-428.5	447.6	286.82
9,487.0	24.30	170.40	9,460.1	117.2	-426.7	442.5	285.36
9,519.0	26.70	170.40	9,489.0	103.6	-424.4	436.8	283.72
9,550.0	29.90	171.10	9,516.3	89.1	-422.0	431.3	281.92
9,582.0	33.60	172.80	9,543.5	72.4	-419.7	425.9	279.79
9,613.0	36.40	175.40	9,568.9	54.7	-417.8	421.4	277.46
9,645.0	39.10	179.30	9,594.2	35.2	-417.0	418.4	274.82
9,677.0	42.00	181.50	9,618.5	14.4	-417.1	417.4	271.97
9,708.0	44.70	182.50	9,641.0	-6.9	-417.9	417.9	269.06
9,740.0	47.80	183.10	9,663.2	-30.0	-419.0	420.1	265.91
9,772.0	49.60	183.90	9,684.3	-54.0	-420.5	423.9	262.69
9,803.0	51.20	185.00	9,704.0	-77.8	-422.3	429.4	259.57
9,834.0	53.50	186.10	9,723.0	-102.2	-424.7	436.8	256.47
9,866.0	56.50	187.50	9,741.3	-128.2	-427.8	446.6	253.32
9,898.0	58.90	188.80	9,758.4	-155.0	-431.6	458.6	250.25
9,929.0	61.80	189.30	9,773.8	-181.6	-435.9	472.2	247.38
9,961.0	64.20	189.20	9,788.3	-209.7	-440.5	487.9	244.54
9,992.0	66.50	188.50	9,801.2	-237.6	-444.8	504.3	241.89
10,024.0	71.30	188.10	9,812.7	-267.1	-449.1	522.5	239.26
10,087.0	77.30	187.50	9,829.8	-327.2	-457.3	562.3	234.42
10,118.0	80.50	186.60	9,835.7	-357.4	-461.1	583.3	232.22
10,150.0	82.40	186.50	9,840.5	-388.8	-464.7	605.9	230.08
10,181.0	84.70	185.00	9,844.0	-419.4	-467.8	628.3	228.12
10,212.0	85.80	184.00	9,846.6	-450.2	-470.2	651.0	226.24
10,244.0	85.90	184.50	9,848.9	-482.1	-472.5	675.0	224.43



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11-14 W1AP Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Well:	Delaware Ranch 11-14 W1AP Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
10,275.0	87.40	185.10	9,850.7	-512.9	-475.1	699.2	222.81	
10,307.0	89.30	184.90	9,851.6	-544.8	-477.9	724.7	221.26	
LP Delaware Ranch 11 14 W2AP Fed Com 1H								
10,334.4	89.18	184.99	9,852.0	-572.1	-480.3	746.9	220.02	
New LP Delaware Ranch 11 14 W1AP Fed Com 1H								
10,402.0	88.90	185.20	9,853.1	-639.4	-486.3	803.3	217.25	
10,496.0	90.90	184.80	9,853.3	-733.0	-494.5	884.2	214.00	
10,591.0	91.10	184.40	9,851.6	-827.7	-502.1	968.1	211.24	
10,686.0	90.40	184.50	9,850.4	-922.4	-509.5	1,053.7	208.91	
10,780.0	91.50	183.90	9,848.8	-1,016.1	-516.3	1,139.8	206.94	
10,875.0	90.40	185.20	9,847.2	-1,110.8	-523.9	1,228.2	205.25	
10,970.0	91.60	186.40	9,845.6	-1,205.3	-533.5	1,318.1	203.87	
11,065.0	91.50	184.70	9,843.0	-1,299.8	-542.7	1,408.6	202.66	
11,159.0	86.00	181.20	9,845.0	-1,393.6	-547.5	1,497.3	201.45	
11,254.0	86.30	181.30	9,851.4	-1,488.4	-549.6	1,586.6	200.27	
11,348.0	91.30	182.20	9,853.4	-1,582.3	-552.4	1,676.0	199.25	
11,443.0	93.00	182.20	9,849.8	-1,677.2	-556.1	1,766.9	198.34	
11,538.0	94.30	183.40	9,843.8	-1,771.9	-560.7	1,858.5	197.56	
11,632.0	92.10	183.40	9,838.5	-1,865.5	-566.3	1,949.6	196.89	
11,726.0	88.90	182.00	9,837.7	-1,959.4	-570.7	2,040.8	196.24	
11,821.0	89.10	180.20	9,839.4	-2,054.4	-572.5	2,132.7	195.57	
11,915.0	88.00	180.70	9,841.7	-2,148.3	-573.3	2,223.5	194.94	
12,010.0	90.60	179.90	9,842.9	-2,243.3	-573.8	2,315.5	194.35	
12,105.0	93.10	179.80	9,839.8	-2,338.3	-573.5	2,407.6	193.78	
12,200.0	92.90	179.10	9,834.9	-2,433.1	-572.6	2,499.6	193.24	
12,294.0	91.40	178.90	9,831.3	-2,527.1	-571.0	2,590.8	192.73	
12,389.0	90.30	179.30	9,829.9	-2,622.0	-569.5	2,683.2	192.25	



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MWD Report



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Survey								
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12,483.0	88.90	178.40	9,830.6	-2,716.0	-567.6	2,774.7	191.80	
12,578.0	89.40	179.50	9,832.0	-2,811.0	-565.8	2,867.4	191.38	
12,673.0	90.40	180.80	9,832.2	-2,906.0	-566.1	2,960.6	191.02	
12,768.0	90.20	180.80	9,831.7	-3,001.0	-567.4	3,054.1	190.71	
12,863.0	90.60	181.70	9,831.0	-3,095.9	-569.5	3,147.9	190.42	
12,958.0	91.10	181.90	9,829.6	-3,190.9	-572.5	3,241.8	190.17	
13,053.0	91.80	182.70	9,827.2	-3,285.8	-576.3	3,335.9	189.95	
13,147.0	90.20	182.60	9,825.6	-3,379.6	-580.6	3,429.2	189.75	
13,241.0	89.50	183.00	9,825.8	-3,473.5	-585.2	3,522.5	189.56	
13,336.0	88.20	180.90	9,827.7	-3,568.5	-588.5	3,616.6	189.36	
13,431.0	88.70	179.20	9,830.3	-3,663.4	-588.5	3,710.4	189.13	
13,525.0	89.70	177.90	9,831.6	-3,757.4	-586.2	3,802.8	188.87	
13,620.0	89.40	178.30	9,832.3	-3,852.3	-583.0	3,896.2	188.61	
13,715.0	91.10	178.30	9,831.9	-3,947.3	-580.2	3,989.7	188.36	
13,809.0	90.50	177.70	9,830.6	-4,041.2	-576.9	4,082.2	188.12	
13,904.0	89.50	176.90	9,830.6	-4,136.1	-572.4	4,175.5	187.88	
13,998.0	92.90	178.10	9,828.6	-4,230.0	-568.3	4,268.0	187.65	
14,093.0	92.30	178.80	9,824.3	-4,324.8	-565.8	4,361.7	187.45	
14,187.0	92.40	179.40	9,820.5	-4,418.7	-564.3	4,454.6	187.28	
14,282.0	92.40	180.00	9,816.5	-4,513.7	-563.8	4,548.7	187.12	
14,377.0	89.50	179.50	9,814.9	-4,608.6	-563.4	4,642.9	186.97	
14,471.0	91.30	180.60	9,814.3	-4,702.6	-563.5	4,736.3	186.83	
14,565.0	91.60	181.30	9,811.9	-4,796.6	-565.0	4,829.8	186.72	
14,660.0	89.30	183.00	9,811.1	-4,891.5	-568.6	4,924.4	186.63	
14,755.0	87.70	181.50	9,813.6	-4,986.4	-572.3	5,019.1	186.55	
14,849.0	89.60	179.40	9,815.8	-5,080.4	-573.1	5,112.6	186.44	
14,944.0	90.30	179.20	9,815.9	-5,175.3	-571.9	5,206.9	186.31	



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11-14 W1AP Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Well:	Delaware Ranch 11-14 W1AP Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,038.0	90.90	180.20	9,814.9	-5,269.3	-571.4	5,300.2	186.19
15,133.0	91.10	180.50	9,813.3	-5,364.3	-572.0	5,394.7	186.09
15,228.0	89.00	181.10	9,813.2	-5,459.3	-573.3	5,489.3	185.99
15,323.0	88.40	182.70	9,815.4	-5,554.2	-576.5	5,584.1	185.93
15,417.0	87.80	180.50	9,818.5	-5,648.1	-579.1	5,677.7	185.85
15,511.0	89.50	180.10	9,820.7	-5,742.1	-579.6	5,771.3	185.76
15,606.0	88.00	180.50	9,822.8	-5,837.1	-580.1	5,865.8	185.68
15,700.0	89.50	180.80	9,824.8	-5,931.0	-581.1	5,959.4	185.60
15,793.0	92.30	180.30	9,823.3	-6,024.0	-582.0	6,052.1	185.52
15,885.0	92.70	180.70	9,819.3	-6,115.9	-582.8	6,143.6	185.44
15,978.0	92.10	179.30	9,815.4	-6,208.8	-582.8	6,236.1	185.36
16,070.0	92.30	179.70	9,811.9	-6,300.8	-582.0	6,327.6	185.28
16,163.0	89.50	180.90	9,810.4	-6,393.7	-582.5	6,420.2	185.21
16,255.0	89.50	181.30	9,811.3	-6,485.7	-584.3	6,512.0	185.15
16,348.0	89.40	180.50	9,812.1	-6,578.7	-585.7	6,604.7	185.09
16,443.0	89.10	181.00	9,813.4	-6,673.7	-587.0	6,699.5	185.03
16,537.0	89.80	181.60	9,814.3	-6,767.7	-589.1	6,793.3	184.98
16,631.0	89.10	181.70	9,815.2	-6,861.6	-591.8	6,887.1	184.93
16,726.0	91.00	181.20	9,815.1	-6,956.6	-594.2	6,981.9	184.88
16,820.0	90.60	181.80	9,813.8	-7,050.5	-596.7	7,075.7	184.84
16,915.0	90.80	180.40	9,812.6	-7,145.5	-598.5	7,170.5	184.79
17,009.0	90.70	180.70	9,811.4	-7,239.5	-599.4	7,264.3	184.73
17,103.0	91.00	179.50	9,810.0	-7,333.5	-599.6	7,358.0	184.67
17,198.0	90.90	180.00	9,808.4	-7,428.5	-599.2	7,452.6	184.61
17,293.0	90.30	179.10	9,807.4	-7,523.5	-598.4	7,547.2	184.55
17,388.0	90.20	179.80	9,807.0	-7,618.5	-597.5	7,641.9	184.48
17,482.0	90.50	176.90	9,806.5	-7,712.4	-594.8	7,735.3	184.41



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 11-14 W1AP Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Site:	Section 11 14-26S-28E Delaware Ranch 11-14 W	MD Reference:	2968 + 27 @ 2995.0usft (Patterson 217)
Well:	Delaware Ranch 11-14 W1AP Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,577.0	89.70	177.40	9,806.3	-7,807.3	-590.1	7,829.6	184.32
17,671.0	89.70	178.00	9,806.8	-7,901.2	-586.3	7,922.9	184.24
17,765.0	90.70	178.60	9,806.5	-7,995.2	-583.5	8,016.4	184.17
17,860.0	91.90	177.70	9,804.3	-8,090.1	-580.5	8,110.9	184.10
17,955.0	92.00	177.70	9,801.1	-8,185.0	-576.6	8,205.3	184.03
18,049.0	89.30	177.30	9,800.0	-8,278.9	-572.5	8,298.6	183.96
18,144.0	87.80	176.50	9,802.4	-8,373.7	-567.4	8,392.9	183.88
18,238.0	90.60	177.40	9,803.7	-8,467.5	-562.4	8,486.2	183.80
18,333.0	90.30	177.90	9,803.0	-8,562.5	-558.5	8,580.6	183.73
18,427.0	90.10	178.00	9,802.6	-8,656.4	-555.1	8,674.2	183.67
18,522.0	91.30	179.20	9,801.5	-8,751.4	-552.8	8,768.8	183.61
18,616.0	90.30	178.90	9,800.2	-8,845.3	-551.3	8,862.5	183.57
18,711.0	89.40	178.90	9,800.4	-8,940.3	-549.4	8,957.2	183.52
18,805.0	88.80	179.30	9,801.9	-9,034.3	-548.0	9,050.9	183.47
18,899.0	88.50	179.80	9,804.1	-9,128.3	-547.2	9,144.6	183.43
18,993.0	88.80	180.80	9,806.3	-9,222.2	-547.7	9,238.5	183.40
19,088.0	92.80	183.10	9,805.0	-9,317.1	-551.0	9,333.4	183.38
19,181.0	90.70	183.00	9,802.2	-9,410.0	-555.9	9,426.4	183.38
19,275.0	91.70	184.30	9,800.2	-9,503.7	-561.9	9,520.3	183.38
19,369.0	90.30	182.30	9,798.5	-9,597.6	-567.3	9,614.3	183.38
19,463.0	89.80	183.00	9,798.5	-9,691.5	-571.6	9,708.3	183.38
19,558.0	88.90	183.60	9,799.5	-9,786.3	-577.1	9,803.3	183.37
19,653.0	87.20	182.50	9,802.8	-9,881.1	-582.2	9,898.2	183.37
19,748.0	86.20	182.50	9,808.2	-9,975.9	-586.3	9,993.1	183.36
19,777.0	85.00	182.20	9,810.5	-10,004.7	-587.5	10,022.0	183.36
19,830.0	85.00	182.20	9,815.1	-10,057.5	-589.5	10,074.8	183.35
10830.0' MD Projected top Bit - New Name PBHL Delaware Ranch 11 14 W1AP Fed Com 1H - PBHL Delaware Ranch 11 14 W2AP Fed Com 1H							