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Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 11 14-26S-28E Delaware Ranch 11 14 W1AP Fe

Delaware Ranch 11 14 W1AP #2H

Original Hole

Design: Original Hole

Standard Survey Report

16 May, 2019

STRYKER
DIRECTIONAL



Microsoft
Survey 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 W1AP Fe	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

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 11 14-26S-28E Delaware Ranch 11 14 W1AP Fe				
Site Position:		Northing:	387,101.40 usft	Latitude:	32° 3' 50.061 N
From:	Map	Easting:	628,958.50 usft	Longitude:	104° 3' 1.722 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Delaware Ranch 11 14 W1AP #2H				
Well Position	+N/-S	0.0 usft	Northing:	387,101.40 usft	Latitude: 32° 3' 50.061 N
	+E/-W	0.0 usft	Easting:	628,958.50 usft	Longitude: 104° 3' 1.722 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	01/25/19	6.99	59.82	47,630.56363713

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	179.97

Survey Program	Date	05/16/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
742.0	19,600.0	Survey #1 (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
600.0	1.40	60.80	600.0	0.4	1.0	-0.4	0.00	0.00	0.00	
742.0	2.60	62.40	741.9	2.7	5.4	-2.7	0.85	0.85	1.13	
931.0	0.70	45.20	930.8	5.5	10.0	-5.5	1.03	-1.01	-9.10	
1,120.0	0.60	56.40	1,119.8	6.9	11.6	-6.9	0.09	-0.05	5.93	
1,309.0	0.80	72.10	1,308.8	7.9	13.7	-7.8	0.15	0.11	8.31	
1,499.0	0.90	101.60	1,498.8	8.0	16.4	-8.0	0.23	0.05	15.53	
1,688.0	0.30	194.80	1,687.8	7.2	17.8	-7.2	0.51	-0.32	49.31	
1,877.0	0.70	229.80	1,876.8	6.0	16.8	-5.9	0.26	0.21	18.52	
2,066.0	1.50	116.40	2,065.7	4.1	18.1	-4.1	1.00	0.42	-60.00	
2,256.0	0.70	156.80	2,255.7	1.9	20.8	-1.9	0.56	-0.42	21.26	



Microsoft Survey Report



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Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,445.0	0.70	118.60	2,444.7	0.3	22.2	-0.3	0.24	0.00	-20.21
2,537.0	0.70	110.00	2,536.7	-0.1	23.3	0.1	0.11	0.00	-9.35
2,587.0	0.40	108.90	2,586.7	-0.3	23.7	0.3	0.60	-0.60	-2.20
2,776.0	2.50	334.60	2,775.6	3.2	22.6	-3.2	1.48	1.11	-71.06
2,964.0	2.30	353.70	2,963.5	10.7	20.4	-10.7	0.44	-0.11	10.16
3,154.0	3.20	353.80	3,153.2	19.7	19.4	-19.7	0.47	0.47	0.05
3,343.0	2.90	351.50	3,342.0	29.7	18.1	-29.7	0.17	-0.16	-1.22
3,534.0	3.60	354.20	3,532.7	40.4	16.8	-40.4	0.38	0.37	1.41
3,722.0	3.40	353.20	3,720.3	51.9	15.6	-51.8	0.11	-0.11	-0.53
3,911.0	3.70	12.70	3,909.0	63.4	16.2	-63.4	0.65	0.16	10.32
4,100.0	3.50	14.70	4,097.6	74.9	19.0	-74.9	0.12	-0.11	1.06
4,288.0	2.60	16.30	4,285.3	84.5	21.7	-84.5	0.48	-0.48	0.85
4,478.0	3.10	4.40	4,475.1	93.8	23.3	-93.8	0.41	0.26	-6.26
4,668.0	3.30	11.90	4,664.8	104.3	24.8	-104.3	0.24	0.11	3.95
4,859.0	2.60	17.10	4,855.5	113.8	27.2	-113.8	0.39	-0.37	2.72
5,048.0	2.20	19.60	5,044.4	121.3	29.7	-121.3	0.22	-0.21	1.32
5,236.0	2.50	19.10	5,232.2	128.6	32.3	-128.6	0.16	0.16	-0.27
5,426.0	2.80	20.60	5,422.0	136.8	35.2	-136.8	0.16	0.16	0.79
5,614.0	3.30	18.80	5,609.7	146.3	38.6	-146.2	0.27	0.27	-0.96
5,804.0	2.90	9.70	5,799.5	156.2	41.2	-156.2	0.33	-0.21	-4.79
5,993.0	2.40	12.10	5,988.3	164.8	42.8	-164.7	0.27	-0.26	1.27
6,182.0	0.90	9.50	6,177.2	170.1	43.9	-170.1	0.79	-0.79	-1.38
6,284.8	0.19	12.77	6,280.0	171.1	44.1	-171.0	0.69	-0.69	3.18
B.B. Delaware Ranch 11/14 W1AP Fed Com 2H									
6,371.0	0.40	186.60	6,366.2	170.9	44.1	-170.9	0.69	0.24	201.75
6,561.0	1.10	144.80	6,556.2	168.8	45.0	-168.7	0.44	0.37	-22.00
6,749.0	0.50	225.30	6,744.1	166.7	45.5	-166.7	0.60	-0.32	42.82
6,938.0	0.60	308.70	6,933.1	166.7	44.1	-166.7	0.39	0.05	44.13
7,128.0	1.10	315.80	7,123.1	168.7	42.1	-168.6	0.27	0.26	3.74
7,318.0	1.50	350.10	7,313.1	172.4	40.4	-172.4	0.45	0.21	18.05
7,507.0	0.00	313.90	7,502.0	174.9	40.0	-174.8	0.79	-0.79	0.00
7,696.0	0.80	114.70	7,691.0	174.3	41.2	-174.3	0.42	0.42	0.00
7,886.0	0.40	174.40	7,881.0	173.1	42.4	-173.1	0.36	-0.21	31.42
8,075.0	1.00	233.60	8,070.0	171.5	41.2	-171.4	0.46	0.32	31.32
8,265.0	0.30	345.30	8,260.0	171.0	39.7	-170.9	0.60	-0.37	58.79
8,454.0	0.60	46.20	8,449.0	172.1	40.3	-172.1	0.28	0.16	32.22
8,645.0	1.20	164.30	8,640.0	170.9	41.5	-170.9	0.82	0.31	61.83
8,834.0	1.00	135.40	8,829.0	167.8	43.2	-167.8	0.31	-0.11	-15.29
8,928.0	0.60	172.80	8,922.9	166.7	43.9	-166.7	0.68	-0.43	39.79
8,999.0	0.60	186.00	8,993.9	166.0	43.9	-166.0	0.19	0.00	18.59
9,045.0	1.10	165.90	9,039.9	165.3	44.0	-165.3	1.25	1.09	-43.70
9,092.0	5.90	170.80	9,086.8	162.5	44.5	-162.5	10.22	10.21	10.43



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Survey Report



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Well:	Delaware Ranch 11 14 W1AP #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,139.0	10.40	171.90	9,133.4	155.9	45.5	-155.9	9.58	9.57	2.34
9,186.0	15.80	175.30	9,179.1	145.3	46.6	-145.3	11.60	11.49	7.23
9,234.0	21.10	178.10	9,224.6	130.2	47.4	-130.2	11.19	11.04	5.83
9,281.0	25.00	178.10	9,267.9	111.8	48.0	-111.8	8.30	8.30	0.00
9,329.0	28.50	178.40	9,310.7	90.2	48.7	-90.2	7.30	7.29	0.63
9,376.0	30.10	179.50	9,351.7	67.2	49.1	-67.2	3.59	3.40	2.34
9,423.0	35.10	180.60	9,391.3	41.9	49.0	-41.9	10.71	10.64	2.34
9,470.0	41.00	180.50	9,428.3	12.9	48.8	-12.9	12.55	12.55	-0.21
9,517.0	46.40	179.10	9,462.3	-19.5	48.9	19.6	11.67	11.49	-2.98
9,564.0	51.50	179.40	9,493.1	-55.0	49.4	55.0	10.86	10.85	0.64
9,612.0	55.80	180.50	9,521.6	-93.6	49.4	93.6	9.15	8.96	2.29
9,659.0	59.60	180.60	9,546.7	-133.3	49.0	133.3	8.09	8.09	0.21
9,706.0	62.60	181.00	9,569.4	-174.5	48.4	174.5	6.43	6.38	0.85
9,753.0	65.90	182.30	9,589.8	-216.8	47.2	216.8	7.45	7.02	2.77
9,801.0	68.80	182.40	9,608.3	-261.0	45.4	261.0	6.04	6.04	0.21
9,821.0	70.90	182.40	9,615.2	-279.8	44.6	279.8	10.50	10.50	0.00
9,877.0	76.30	182.30	9,631.0	-333.4	42.4	333.5	9.64	9.64	-0.18
9,899.0	77.80	181.80	9,635.9	-354.9	41.6	354.9	7.17	6.82	-2.27
9,930.0	80.00	181.00	9,641.9	-385.3	40.9	385.3	7.53	7.10	-2.58
9,962.0	83.60	179.60	9,646.4	-416.9	40.7	417.0	12.05	11.25	-4.38
9,994.0	85.40	178.30	9,649.5	-448.8	41.3	448.8	6.93	5.63	-4.06
10,025.0	86.70	177.90	9,651.6	-479.7	42.3	479.7	4.39	4.19	-1.29
10,057.0	89.30	177.50	9,652.8	-511.6	43.6	511.7	8.22	8.13	-1.25
10,118.2	93.15	177.89	9,651.4	-572.8	46.1	572.8	6.32	6.29	0.65
LP Delaware Ranch 11/14 W1AP Fed Com 2H									
10,119.0	93.20	177.90	9,651.4	-573.6	46.1	573.6	6.32	6.29	0.65
10,213.0	89.80	179.90	9,648.9	-667.5	47.9	667.5	4.20	-3.62	2.13
10,308.0	89.80	180.50	9,649.3	-762.5	47.6	762.5	0.63	0.00	0.63
10,403.0	89.20	179.80	9,650.1	-857.5	47.3	857.5	0.97	-0.63	-0.74
10,497.0	89.30	178.80	9,651.3	-951.5	48.5	951.5	1.07	0.11	-1.06
10,592.0	90.60	180.20	9,651.4	-1,046.5	49.3	1,046.5	2.01	1.37	1.47
10,687.0	91.60	180.80	9,649.6	-1,141.4	48.5	1,141.5	1.23	1.05	0.63
10,781.0	90.10	179.30	9,648.2	-1,235.4	48.4	1,235.5	2.26	-1.60	-1.60
10,876.0	90.10	179.10	9,648.0	-1,330.4	49.7	1,330.4	0.21	0.00	-0.21
10,971.0	91.40	181.50	9,646.8	-1,425.4	49.2	1,425.4	2.87	1.37	2.53
11,065.0	91.80	181.20	9,644.2	-1,519.3	47.0	1,519.4	0.53	0.43	-0.32
11,160.0	91.00	181.90	9,641.8	-1,614.3	44.4	1,614.3	1.12	-0.84	0.74
11,255.0	88.00	181.90	9,642.7	-1,709.2	41.3	1,709.2	3.16	-3.16	0.00
11,349.0	88.40	180.10	9,645.6	-1,803.1	39.6	1,803.2	1.96	0.43	-1.91
11,444.0	89.60	179.70	9,647.3	-1,898.1	39.8	1,898.1	1.33	1.26	-0.42
11,538.0	89.80	181.20	9,647.8	-1,992.1	39.1	1,992.1	1.61	0.21	1.60
11,633.0	87.10	180.20	9,650.3	-2,087.1	37.9	2,087.1	3.03	-2.84	-1.05
11,727.0	92.60	179.80	9,650.6	-2,181.0	37.9	2,181.1	5.87	5.85	-0.43



Microsoft
Survey Report



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11,822.0	93.30	179.50	9,645.7	-2,275.9	38.5	2,275.9	0.80	0.74	-0.32
11,916.0	91.40	180.30	9,641.8	-2,369.8	38.7	2,369.8	2.19	-2.02	0.85
12,011.0	91.40	180.50	9,639.5	-2,464.8	38.0	2,464.8	0.21	0.00	0.21
12,106.0	89.10	180.70	9,639.1	-2,559.8	37.0	2,559.8	2.43	-2.42	0.21
12,201.0	88.50	181.20	9,641.1	-2,654.7	35.4	2,654.8	0.82	-0.63	0.53
12,295.0	87.80	180.80	9,644.1	-2,748.7	33.8	2,748.7	0.86	-0.74	-0.43
12,390.0	89.40	180.80	9,646.5	-2,843.6	32.5	2,843.7	1.68	1.68	0.00
12,484.0	90.90	180.10	9,646.2	-2,937.6	31.7	2,937.6	1.76	1.60	-0.74
12,579.0	90.80	180.30	9,644.8	-3,032.6	31.4	3,032.6	0.24	-0.11	0.21
12,674.0	90.70	180.00	9,643.6	-3,127.6	31.1	3,127.6	0.33	-0.11	-0.32
12,769.0	90.30	177.20	9,642.7	-3,222.6	33.5	3,222.6	2.98	-0.42	-2.95
12,864.0	93.00	179.40	9,640.0	-3,317.5	36.3	3,317.5	3.67	2.84	2.32
12,959.0	91.10	180.80	9,636.6	-3,412.4	36.1	3,412.4	2.48	-2.00	1.47
13,054.0	90.20	181.40	9,635.5	-3,507.4	34.3	3,507.4	1.14	-0.95	0.63
13,148.0	90.20	181.50	9,635.2	-3,601.3	31.9	3,601.4	0.11	0.00	0.11
13,242.0	91.30	181.60	9,634.0	-3,695.3	29.4	3,695.3	1.18	1.17	0.11
13,337.0	90.80	181.90	9,632.2	-3,790.2	26.5	3,790.3	0.61	-0.53	0.32
13,432.0	90.90	182.20	9,630.8	-3,885.2	23.1	3,885.2	0.33	0.11	0.32
13,526.0	89.40	182.20	9,630.6	-3,979.1	19.5	3,979.1	1.60	-1.60	0.00
13,621.0	89.70	182.90	9,631.3	-4,074.0	15.2	4,074.0	0.80	0.32	0.74
13,716.0	89.20	180.50	9,632.2	-4,168.9	12.4	4,169.0	2.58	-0.53	-2.53
13,810.0	90.40	181.20	9,632.5	-4,262.9	11.0	4,262.9	1.48	1.28	0.74
13,905.0	89.30	178.90	9,632.8	-4,357.9	10.9	4,357.9	2.68	-1.16	-2.42
13,999.0	86.70	177.30	9,636.1	-4,451.8	14.1	4,451.8	3.25	-2.77	-1.70
14,094.0	92.30	178.00	9,636.9	-4,546.7	17.9	4,546.7	5.94	5.89	0.74
14,189.0	93.90	178.50	9,631.8	-4,641.5	20.8	4,641.5	1.76	1.68	0.53
14,283.0	90.90	179.70	9,627.8	-4,735.4	22.3	4,735.4	3.44	-3.19	1.28
14,378.0	89.80	179.00	9,627.3	-4,830.4	23.4	4,830.4	1.37	-1.16	-0.74
14,472.0	89.70	179.10	9,627.7	-4,924.4	25.0	4,924.4	0.15	-0.11	0.11
14,567.0	89.30	179.00	9,628.5	-5,019.4	26.5	5,019.4	0.43	-0.42	-0.11
14,661.0	91.30	179.10	9,628.0	-5,113.3	28.1	5,113.3	2.13	2.13	0.11
14,756.0	90.80	178.70	9,626.3	-5,208.3	29.9	5,208.3	0.67	-0.53	-0.42
14,850.0	90.80	179.10	9,624.9	-5,302.3	31.7	5,302.3	0.43	0.00	0.43
14,945.0	91.20	180.00	9,623.3	-5,397.3	32.5	5,397.3	1.04	0.42	0.95
15,039.0	90.20	178.90	9,622.1	-5,491.2	33.4	5,491.3	1.58	-1.06	-1.17
15,134.0	88.60	177.10	9,623.1	-5,586.2	36.7	5,586.2	2.53	-1.68	-1.89
15,229.0	88.10	178.60	9,625.9	-5,681.1	40.2	5,681.1	1.66	-0.53	1.58
15,323.0	87.50	180.30	9,629.5	-5,775.0	41.1	5,775.0	1.92	-0.64	1.81
15,418.0	90.40	181.50	9,631.2	-5,869.9	39.6	5,870.0	3.30	3.05	1.26
15,512.0	87.20	180.20	9,633.2	-5,963.9	38.3	5,963.9	3.67	-3.40	-1.38
15,607.0	91.60	182.20	9,634.2	-6,058.8	36.3	6,058.9	5.09	4.63	2.11
15,701.0	91.90	182.50	9,631.3	-6,152.7	32.4	6,152.7	0.45	0.32	0.32



Microsoft Survey 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 W1AP Fe	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									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,794.0	91.30	181.80	9,628.7	-6,245.6	28.9	6,245.6	0.99	-0.65	-0.75
15,886.0	91.20	181.80	9,626.7	-6,337.5	26.0	6,337.6	0.11	-0.11	0.00
15,979.0	92.80	181.50	9,623.5	-6,430.5	23.4	6,430.5	1.75	1.72	-0.32
16,072.0	92.60	182.20	9,619.1	-6,523.3	20.4	6,523.3	0.78	-0.22	0.75
16,164.0	90.90	181.20	9,616.3	-6,615.2	17.6	6,615.2	2.14	-1.85	-1.09
16,257.0	91.10	181.20	9,614.6	-6,708.2	15.7	6,708.2	0.22	0.22	0.00
16,349.0	90.90	179.40	9,613.0	-6,800.2	15.2	6,800.2	1.97	-0.22	-1.96
16,444.0	89.80	179.50	9,612.5	-6,895.2	16.1	6,895.2	1.16	-1.16	0.11
16,538.0	89.60	179.30	9,613.0	-6,989.1	17.1	6,989.2	0.30	-0.21	-0.21
16,633.0	87.30	178.10	9,615.5	-7,084.1	19.3	7,084.1	2.73	-2.42	-1.26
16,727.0	90.90	181.30	9,617.0	-7,178.0	19.7	7,178.0	5.12	3.83	3.40
16,821.0	90.40	180.80	9,615.9	-7,272.0	18.0	7,272.0	0.75	-0.53	-0.53
16,915.0	90.30	180.80	9,615.4	-7,366.0	16.7	7,366.0	0.11	-0.11	0.00
17,010.0	92.90	180.30	9,612.7	-7,461.0	15.8	7,461.0	2.79	2.74	-0.53
17,104.0	96.00	182.00	9,605.4	-7,554.6	13.9	7,554.6	3.76	3.30	1.81
17,151.0	95.40	182.20	9,600.7	-7,601.4	12.2	7,601.4	1.34	-1.28	0.43
17,199.0	91.30	180.90	9,597.9	-7,649.3	10.9	7,649.3	8.96	-8.54	-2.71
17,246.0	91.50	181.50	9,596.8	-7,696.2	9.9	7,696.2	1.35	0.43	1.28
17,294.0	87.50	179.60	9,597.2	-7,744.2	9.5	7,744.2	9.23	-8.33	-3.96
17,388.0	87.80	179.30	9,601.1	-7,838.1	10.4	7,838.1	0.45	0.32	-0.32
17,483.0	85.90	177.90	9,606.3	-7,933.0	12.7	7,933.0	2.48	-2.00	-1.47
17,577.0	92.60	179.50	9,607.5	-8,026.9	14.8	8,026.9	7.33	7.13	1.70
17,672.0	90.60	179.80	9,604.9	-8,121.8	15.4	8,121.8	2.13	-2.11	0.32
17,766.0	90.20	180.40	9,604.2	-8,215.8	15.2	8,215.8	0.77	-0.43	0.64
17,861.0	90.30	180.90	9,603.8	-8,310.8	14.2	8,310.8	0.54	0.11	0.53
17,956.0	89.10	180.80	9,604.3	-8,405.8	12.7	8,405.8	1.27	-1.26	-0.11
18,050.0	88.30	180.70	9,606.4	-8,499.8	11.5	8,499.8	0.86	-0.85	-0.11
18,145.0	90.80	179.60	9,607.2	-8,594.8	11.3	8,594.8	2.88	2.63	-1.16
18,239.0	91.70	179.50	9,605.1	-8,688.7	12.0	8,688.7	0.96	0.96	-0.11
18,333.0	89.80	179.30	9,603.9	-8,782.7	13.0	8,782.7	2.03	-2.02	-0.21
18,428.0	90.50	182.10	9,603.6	-8,877.7	11.8	8,877.7	3.04	0.74	2.95
18,522.0	87.70	178.20	9,605.1	-8,971.7	11.6	8,971.7	5.11	-2.98	-4.15
18,617.0	89.60	179.30	9,607.4	-9,066.6	13.7	9,066.6	2.31	2.00	1.16
18,712.0	92.20	179.10	9,605.9	-9,161.6	15.0	9,161.6	2.74	2.74	-0.21
18,806.0	90.60	178.90	9,603.6	-9,255.5	16.6	9,255.5	1.72	-1.70	-0.21
18,900.0	90.00	180.20	9,603.1	-9,349.5	17.4	9,349.5	1.52	-0.64	1.38
18,994.0	92.70	180.10	9,600.9	-9,443.5	17.1	9,443.5	2.87	2.87	-0.11
19,088.0	92.30	179.90	9,596.8	-9,537.4	17.1	9,537.4	0.48	-0.43	-0.21
19,182.0	93.60	181.00	9,591.9	-9,631.3	16.4	9,631.3	1.81	1.38	1.17
19,329.0	93.10	180.80	9,583.3	-9,778.0	14.1	9,778.0	0.37	-0.34	-0.14
19,370.0	93.30	180.80	9,581.0	-9,818.9	13.5	9,818.9	0.49	0.49	0.00
19,464.0	94.40	182.40	9,574.7	-9,912.7	10.9	9,912.7	2.06	1.17	1.70
19,547.0	93.40	181.90	9,569.1	-9,995.4	7.8	9,995.4	1.35	-1.20	-0.60



Microsoft
Survey Report



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Site:	Section 11 14-26S-28E Delaware Ranch 11 14 W1AP Fe	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

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,600.0	93.40	181.90	9,565.9	-10,048.3	6.0	10,048.3	0.00	0.00	0.00
19600' Projected to Bit - PBHL Delaware Ranch 11/14 W1AP Fed Com 2H									

Design 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