



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 9 16-26S-33E Salado Draw 9/16 W1AP Fed Com

Salado Draw 9/16 W1AP Fed Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

03 January, 2019

STRYKER
DIRECTIONAL



Microsoft Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9/16 W1AP Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Site:	Section 9 16-26S-33E Salado Draw 9/16 W1AP Fed Com	MD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Well:	Salado Draw 9/16 W1AP Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea 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 9 16-26S-33E Salado Draw 9/16 W1AP Fed Com				
Site Position:		Northing:	387,986.60 usft	Latitude:	32° 3' 51.669 N
From:	Map	Easting:	777,986.70 usft	Longitude:	103° 34' 9.823 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Salado Draw 9/16 W1AP Fed Com #2H					
Well Position	+N/-S	0.0 usft	Northing:	387,986.60 usft	Latitude:	32° 3' 51.669 N
	+E/-W	0.0 usft	Easting:	777,986.70 usft	Longitude:	103° 34' 9.823 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,332.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/28/18	6.78	59.90	47,695.35536257

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	183.69	

Survey Program	Date 01/03/19				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	14,656.0	Intrepid Survey (Original Hole)	MWD	MWD v3:standard declination	
14,762.0	22,825.0	Survey #2 (Original Hole)			

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.20	240.50	100.0	-0.1	-0.2	0.1	0.20	0.20	0.00	
200.0	0.20	218.00	200.0	-0.3	-0.4	0.3	0.08	0.00	-22.50	
300.0	0.30	220.60	300.0	-0.6	-0.7	0.7	0.10	0.10	2.60	
400.0	0.40	294.40	400.0	-0.7	-1.2	0.8	0.43	0.10	73.80	
500.0	0.40	332.90	500.0	-0.2	-1.7	0.4	0.26	0.00	38.50	
600.0	0.20	14.80	600.0	0.2	-1.8	-0.1	0.28	-0.20	41.90	
700.0	0.20	198.70	700.0	0.2	-1.8	-0.1	0.40	0.00	-176.10	
800.0	0.20	203.90	800.0	-0.1	-1.9	0.2	0.02	0.00	5.20	

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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)
900.0	0.10	219.40	900.0	-0.3	-2.0	0.4	0.11	-0.10	15.50
975.0	0.40	131.00	975.0	-0.5	-1.9	0.7	0.55	0.40	-117.87
1,134.0	0.90	139.50	1,134.0	-1.9	-0.6	1.9	0.32	0.31	5.35
1,228.0	0.90	145.30	1,228.0	-3.0	0.3	3.0	0.10	0.00	6.17
1,322.0	1.10	140.60	1,322.0	-4.3	1.2	4.2	0.23	0.21	-5.00
1,418.0	1.30	144.70	1,417.9	-5.9	2.5	5.8	0.23	0.21	4.27
1,512.0	1.50	152.60	1,511.9	-7.9	3.6	7.6	0.30	0.21	8.40
1,607.0	1.60	164.00	1,606.9	-10.3	4.6	9.9	0.34	0.11	12.00
1,701.0	1.60	178.10	1,700.8	-12.8	5.0	12.5	0.42	0.00	15.00
1,795.0	2.10	183.00	1,794.8	-15.9	4.9	15.5	0.56	0.53	5.21
1,890.0	2.30	183.20	1,889.7	-19.5	4.7	19.2	0.21	0.21	0.21
1,985.0	2.50	185.10	1,984.6	-23.5	4.5	23.1	0.23	0.21	2.00
2,082.0	2.50	182.50	2,081.5	-27.7	4.2	27.4	0.12	0.00	-2.68
2,176.0	2.40	178.40	2,175.5	-31.7	4.1	31.4	0.21	-0.11	-4.36
2,271.0	2.70	167.60	2,270.4	-35.9	4.7	35.5	0.59	0.32	-11.37
2,367.0	2.80	164.20	2,366.2	-40.4	5.8	39.9	0.20	0.10	-3.54
2,461.0	3.10	156.70	2,460.1	-44.9	7.4	44.3	0.52	0.32	-7.98
2,556.0	3.50	145.20	2,555.0	-49.6	10.1	48.9	0.81	0.42	-12.11
2,650.0	2.70	123.20	2,648.8	-53.2	13.6	52.2	1.51	-0.85	-23.40
2,745.0	1.90	77.90	2,743.8	-54.1	17.0	52.9	2.02	-0.84	-47.68
2,839.0	2.90	49.50	2,837.7	-52.2	20.3	50.8	1.62	1.06	-30.21
2,934.0	2.70	33.60	2,932.6	-48.8	23.4	47.2	0.84	-0.21	-16.74
3,029.0	2.30	359.80	3,027.5	-45.0	24.6	43.4	1.58	-0.42	-35.58
3,123.0	3.00	335.30	3,121.4	-40.9	23.6	39.3	1.40	0.74	-26.06
3,217.0	3.10	339.40	3,215.3	-36.3	21.7	34.8	0.26	0.11	4.36
3,312.0	3.00	348.80	3,310.1	-31.5	20.3	30.1	0.54	-0.11	10.00
3,407.0	3.20	8.40	3,405.0	-26.4	20.2	25.0	1.12	0.21	20.53
3,501.0	3.20	4.60	3,498.8	-21.2	20.8	19.8	0.23	0.00	-4.04
3,597.0	4.60	351.90	3,594.6	-14.7	20.5	13.4	1.71	1.46	-13.23
3,691.0	4.10	340.50	3,688.3	-7.8	18.8	6.6	1.06	-0.53	-12.13
3,787.0	4.20	339.20	3,784.1	-1.3	16.4	0.2	0.14	0.10	-1.35
3,882.0	2.10	12.80	3,879.0	3.7	15.6	-4.7	2.85	-2.21	35.37
3,977.0	1.50	22.80	3,973.9	6.5	16.4	-7.6	0.71	-0.63	10.53
4,071.0	1.50	51.00	4,067.9	8.4	17.9	-9.6	0.78	0.00	30.00
4,166.0	2.10	62.90	4,162.8	10.0	20.4	-11.3	0.74	0.63	12.53
4,261.0	2.20	43.80	4,257.8	12.1	23.2	-13.6	0.76	0.11	-20.11
4,355.0	0.80	14.10	4,351.7	14.0	24.6	-15.6	1.66	-1.49	-31.60
4,450.0	0.70	327.60	4,446.7	15.2	24.5	-16.7	0.63	-0.11	-48.95
4,545.0	0.70	137.90	4,541.7	15.2	24.5	-16.8	1.47	0.00	179.26
4,641.0	1.40	126.00	4,637.7	14.1	25.9	-15.7	0.76	0.73	-12.40
4,736.0	2.60	129.70	4,732.6	12.1	28.5	-13.9	1.27	1.26	3.89
4,886.0	2.60	137.80	4,882.5	7.4	33.4	-9.5	0.24	0.00	5.40



Microsoft
Survey Report



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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)
5,020.0	2.30	129.70	5,016.4	3.4	37.5	-5.8	0.34	-0.22	-6.04
5,115.0	3.50	317.00	5,111.3	4.3	37.0	-6.7	6.09	1.26	-181.79
5,209.0	5.50	322.40	5,205.0	10.0	32.3	-12.0	2.17	2.13	5.74
5,303.0	6.00	320.80	5,298.6	17.3	26.4	-19.0	0.56	0.53	-1.70
5,398.0	5.90	316.40	5,393.0	24.7	19.9	-26.0	0.49	-0.11	-4.63
5,492.0	7.00	322.70	5,486.4	32.8	13.1	-33.6	1.39	1.17	6.70
5,587.0	6.80	322.50	5,580.8	41.8	6.2	-42.2	0.21	-0.21	-0.21
5,681.0	6.60	321.00	5,674.1	50.5	-0.6	-50.3	0.28	-0.21	-1.60
5,776.0	6.40	320.90	5,768.5	58.8	-7.4	-58.2	0.21	-0.21	-0.11
5,870.0	5.80	323.20	5,862.0	66.7	-13.5	-65.7	0.69	-0.64	2.45
5,965.0	5.30	322.70	5,956.5	74.0	-19.1	-72.6	0.53	-0.53	-0.53
6,059.0	5.60	335.10	6,050.1	81.6	-23.6	-79.9	1.29	0.32	13.19
6,155.0	6.00	335.50	6,145.6	90.4	-27.7	-88.5	0.42	0.42	0.42
6,250.0	5.70	337.70	6,240.1	99.3	-31.5	-97.1	0.39	-0.32	2.32
6,344.0	5.50	335.80	6,333.7	107.8	-35.2	-105.3	0.29	-0.21	-2.02
6,440.0	5.70	336.90	6,429.2	116.3	-38.9	-113.6	0.24	0.21	1.15
6,534.0	5.50	335.00	6,522.8	124.7	-42.6	-121.7	0.29	-0.21	-2.02
6,629.0	5.10	333.60	6,617.4	132.6	-46.4	-129.4	0.44	-0.42	-1.47
6,724.0	5.80	341.60	6,711.9	141.0	-49.8	-137.5	1.09	0.74	8.42
6,819.0	6.10	343.60	6,806.4	150.4	-52.8	-146.6	0.38	0.32	2.11
6,914.0	5.70	342.50	6,900.9	159.7	-55.6	-155.8	0.44	-0.42	-1.16
7,008.0	5.10	340.10	6,994.5	168.1	-58.4	-164.0	0.68	-0.64	-2.55
7,103.0	5.00	339.90	7,089.1	175.9	-61.3	-171.6	0.11	-0.11	-0.21
7,197.0	4.70	338.10	7,182.8	183.4	-64.2	-178.8	0.36	-0.32	-1.91
7,292.0	3.90	333.50	7,277.5	189.9	-67.0	-185.2	0.92	-0.84	-4.84
7,387.0	5.00	332.70	7,372.2	196.4	-70.4	-191.5	1.16	1.16	-0.84
7,482.0	6.30	333.40	7,466.8	204.8	-74.6	-199.5	1.37	1.37	0.74
7,577.0	6.30	336.30	7,561.2	214.2	-79.0	-208.7	0.33	0.00	3.05
7,672.0	5.60	335.60	7,655.7	223.2	-83.1	-217.4	0.74	-0.74	-0.74
7,767.0	5.20	332.40	7,750.3	231.2	-87.0	-225.2	0.53	-0.42	-3.37
7,862.0	4.80	335.30	7,844.9	238.7	-90.6	-232.3	0.50	-0.42	3.05
7,957.0	4.70	332.80	7,939.6	245.7	-94.1	-239.2	0.24	-0.11	-2.63
8,051.0	5.80	339.90	8,033.2	253.6	-97.5	-246.8	1.36	1.17	7.55
8,146.0	5.80	344.00	8,127.7	262.7	-100.4	-255.7	0.44	0.00	4.32
8,241.0	5.60	342.50	8,222.2	271.8	-103.1	-264.6	0.26	-0.21	-1.58
8,336.0	5.40	340.60	8,316.8	280.4	-106.0	-273.0	0.28	-0.21	-2.00
8,435.0	4.80	341.20	8,415.4	288.7	-108.9	-281.1	0.61	-0.61	0.61
8,529.0	4.30	345.70	8,509.1	295.9	-111.0	-288.1	0.65	-0.53	4.79
8,623.0	4.10	351.30	8,602.8	302.6	-112.4	-294.7	0.49	-0.21	5.96
8,690.5	2.68	352.14	8,670.2	306.5	-113.0	-298.6	2.11	-2.11	1.24
B.B. Salado Draw 9 16 W1AP Fed Com #2H									
8,718.0	2.10	352.80	8,697.7	307.7	-113.2	-299.8	2.11	-2.10	2.42
8,813.0	0.90	318.00	8,792.7	310.0	-113.9	-302.0	1.53	-1.26	-36.63

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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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)
8,907.0	0.90	313.30	8,886.7	311.0	-114.9	-303.0	0.08	0.00	-5.00
9,002.0	1.10	321.20	8,981.6	312.2	-116.0	-304.1	0.26	0.21	8.32
9,097.0	1.20	330.90	9,076.6	313.8	-117.1	-305.6	0.23	0.11	10.21
9,191.0	1.50	327.60	9,170.6	315.7	-118.2	-307.5	0.33	0.32	-3.51
9,286.0	1.70	323.80	9,265.6	317.9	-119.7	-309.6	0.24	0.21	-4.00
9,380.0	0.60	23.50	9,359.5	319.5	-120.3	-311.1	1.59	-1.17	63.51
9,475.0	1.40	144.50	9,454.5	319.0	-119.5	-310.7	1.88	0.84	127.37
9,570.0	1.70	153.90	9,549.5	316.8	-118.2	-308.5	0.41	0.32	9.89
9,665.0	1.10	148.30	9,644.5	314.7	-117.1	-306.6	0.65	-0.63	-5.89
9,760.0	0.60	163.60	9,739.5	313.5	-116.5	-305.4	0.57	-0.53	16.11
9,854.0	0.50	196.10	9,833.5	312.6	-116.4	-304.5	0.34	-0.11	34.57
9,948.0	0.40	182.60	9,927.5	311.9	-116.6	-303.8	0.15	-0.11	-14.36
10,044.0	0.30	156.70	10,023.5	311.3	-116.5	-303.2	0.19	-0.10	-26.98
10,139.0	0.20	149.60	10,118.5	311.0	-116.3	-302.8	0.11	-0.11	-7.47
10,233.0	0.10	299.70	10,212.5	310.9	-116.3	-302.7	0.31	-0.11	159.68
10,328.0	0.50	266.60	10,307.5	310.9	-116.8	-302.7	0.44	0.42	-34.84
10,423.0	0.60	258.40	10,402.4	310.8	-117.7	-302.5	0.13	0.11	-8.63
10,517.0	0.10	299.80	10,496.4	310.7	-118.2	-302.5	0.56	-0.53	44.04
10,611.0	0.10	15.00	10,590.4	310.8	-118.3	-302.6	0.13	0.00	80.00
10,705.0	0.10	227.40	10,684.4	310.8	-118.3	-302.6	0.20	0.00	-157.02
10,800.0	0.50	236.80	10,779.4	310.6	-118.7	-302.3	0.42	0.42	9.89
10,894.0	0.80	245.00	10,873.4	310.1	-119.7	-301.7	0.33	0.32	8.72
10,987.0	1.20	269.70	10,966.4	309.8	-121.2	-301.3	0.62	0.43	26.56
11,082.0	1.10	264.70	11,061.4	309.7	-123.1	-301.1	0.15	-0.11	-5.26
11,176.0	1.30	254.20	11,155.4	309.3	-125.0	-300.6	0.32	0.21	-11.17
11,271.0	1.50	241.90	11,250.4	308.4	-127.2	-299.6	0.38	0.21	-12.95
11,365.0	1.60	238.50	11,344.3	307.2	-129.4	-298.2	0.14	0.11	-3.62
11,414.0	1.80	250.00	11,393.3	306.6	-130.7	-297.5	0.81	0.41	23.47
11,498.0	1.90	260.10	11,477.3	305.9	-133.3	-296.7	0.41	0.12	12.02
11,593.0	1.80	261.50	11,572.2	305.4	-136.3	-296.0	0.12	-0.11	1.47
11,687.0	2.20	265.20	11,666.1	305.0	-139.6	-295.4	0.45	0.43	3.94
11,782.0	1.80	213.60	11,761.1	303.6	-142.2	-293.8	1.87	-0.42	-54.32
11,877.0	2.00	210.60	11,856.0	300.9	-143.9	-291.1	0.24	0.21	-3.16
11,970.0	2.10	203.20	11,949.0	298.0	-145.4	-288.0	0.30	0.11	-7.96
<u>12,002.0</u>	2.80	184.70	11,981.0	<u>296.7</u>	<u>-145.7</u>	<u>-286.7</u>	3.27	2.19	-57.81
12,033.0	5.10	183.90	12,011.9	294.5	-145.8	-284.5	7.42	7.42	-2.58
12,065.0	6.70	188.20	12,043.7	291.3	-146.2	-281.3	5.18	5.00	13.44
12,096.0	11.20	187.00	12,074.3	286.5	-146.8	-276.4	14.53	14.52	-3.87
12,128.0	16.20	187.60	12,105.4	279.0	-147.8	-268.9	15.63	15.63	1.88
12,160.0	17.20	196.50	12,136.1	270.0	-149.7	-259.8	8.57	3.13	27.81
12,192.0	18.40	199.80	12,166.5	260.7	-152.8	-250.3	4.90	3.75	10.31
12,224.0	20.50	202.00	12,196.7	250.8	-156.6	-240.2	6.95	6.56	6.88

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9/16 W1AP Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Site:	Section 9 16-26S-33E Salado Draw 9/16 W1AP Fed Com	MD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Well:	Salado Draw 9/16 W1AP Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
12,255.0	23.40	204.60	12,225.5	240.1	-161.2	-229.3	9.86	9.35	8.39
12,286.0	27.20	206.80	12,253.5	228.2	-167.0	-217.0	12.63	12.26	7.10
12,318.0	28.70	205.50	12,281.7	214.7	-173.6	-203.1	5.06	4.69	-4.06
12,350.0	29.10	205.90	12,309.8	200.8	-180.3	-188.8	1.39	1.25	1.25
12,378.0	30.70	206.70	12,334.0	188.3	-186.5	-175.9	5.89	5.71	2.86
12,410.0	32.40	207.50	12,361.3	173.4	-194.1	-160.6	5.47	5.31	2.50
12,441.0	34.60	202.90	12,387.1	157.9	-201.3	-144.6	10.83	7.10	-14.84
12,473.0	37.20	196.50	12,413.1	140.3	-207.6	-126.6	14.26	8.13	-20.00
12,505.0	39.90	193.00	12,438.1	121.0	-212.7	-107.0	10.84	8.44	-10.94
12,536.0	40.60	192.30	12,461.8	101.4	-217.1	-87.3	2.69	2.26	-2.26
12,568.0	40.40	190.00	12,486.1	81.0	-221.1	-66.7	4.71	-0.63	-7.19
12,599.0	43.50	188.70	12,509.2	60.6	-224.5	-46.0	10.39	10.00	-4.19
12,630.0	49.50	187.00	12,530.5	38.3	-227.5	-23.6	19.76	19.35	-5.48
12,661.0	59.10	184.60	12,548.6	13.3	-230.0	1.5	31.60	30.97	-7.74
12,693.0	68.70	183.90	12,562.6	-15.3	-232.1	30.2	30.06	30.00	-2.19
12,713.0	74.20	183.10	12,569.0	-34.2	-233.3	49.2	27.76	27.50	-4.00
12,730.0	78.70	181.70	12,572.8	-50.8	-234.0	65.7	33.33	32.35	-8.24
12,761.0	87.70	179.30	12,576.2	-81.5	-234.2	96.4	26.93	25.81	-7.74
12,793.0	90.70	176.60	12,576.7	-113.5	-233.1	128.3	12.61	9.38	-8.44
12,856.0	93.00	175.60	12,574.6	-176.3	-228.8	190.7	3.98	3.65	-1.59
12,951.0	93.00	172.40	12,569.7	-270.7	-218.9	284.2	3.36	0.00	-3.37
12,982.0	91.30	171.60	12,568.5	-301.3	-214.6	314.5	6.06	-5.48	-2.58
13,014.0	90.70	171.70	12,567.9	-333.0	-209.9	345.8	1.90	-1.88	0.31
13,045.0	85.70	170.10	12,568.9	-363.6	-205.0	376.0	16.93	-16.13	-5.16
13,140.0	83.30	169.50	12,578.0	-456.6	-188.3	467.8	2.60	-2.53	-0.63
13,235.0	85.50	172.30	12,587.3	-550.0	-173.4	560.0	3.74	2.32	2.95
13,329.0	87.70	173.30	12,592.8	-643.1	-161.6	652.1	2.57	2.34	1.06
13,423.0	90.90	174.10	12,594.0	-736.5	-151.3	744.7	3.51	3.40	0.85
13,518.0	91.30	174.60	12,592.2	-831.0	-141.9	838.4	0.67	0.42	0.53
13,613.0	93.00	176.20	12,588.6	-925.6	-134.3	932.4	2.46	1.79	1.68
13,708.0	91.50	177.20	12,584.9	-1,020.4	-128.9	1,026.6	1.90	-1.58	1.05
13,803.0	91.80	177.50	12,582.1	-1,115.3	-124.5	1,121.0	0.45	0.32	0.32
13,899.0	91.30	178.10	12,579.6	-1,211.2	-120.8	1,216.4	0.81	-0.52	0.63
13,993.0	91.80	178.80	12,576.9	-1,305.1	-118.2	1,310.0	0.98	0.64	0.74
14,089.0	89.20	179.90	12,576.0	-1,401.1	-117.2	1,405.7	3.04	-2.81	1.15
14,184.0	90.60	181.50	12,576.2	-1,496.0	-118.3	1,500.6	2.24	1.47	1.68
14,278.0	91.60	179.80	12,574.4	-1,590.0	-119.4	1,594.4	2.10	1.06	-1.81
14,373.0	92.00	182.00	12,571.4	-1,685.0	-120.9	1,689.2	2.35	0.42	2.32
14,468.0	92.40	182.50	12,567.7	-1,779.8	-124.6	1,784.1	0.67	0.42	0.53
14,562.0	91.60	181.80	12,564.5	-1,873.7	-128.1	1,878.0	1.13	-0.85	-0.74
14,656.0	91.60	181.00	12,561.8	-1,967.6	-130.4	1,971.9	0.85	0.00	-0.85
14,762.0	89.50	178.90	12,560.8	-2,073.6	-130.3	2,077.7	2.80	-1.98	-1.98
14,857.0	87.60	179.00	12,563.2	-2,168.6	-128.6	2,172.3	2.00	-2.00	0.11

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9/16 W1AP Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Site:	Section 9 16-26S-33E Salado Draw 9/16 W1AP Fed Com	MD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Well:	Salado Draw 9/16 W1AP Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
14,952.0	87.10	179.50	12,567.6	-2,263.4	-127.3	2,266.9	0.74	-0.53	0.53
15,047.0	86.70	181.80	12,572.7	-2,358.3	-128.4	2,361.7	2.45	-0.42	2.42
15,142.0	87.60	181.30	12,577.5	-2,453.1	-131.0	2,456.5	1.08	0.95	-0.53
15,236.0	87.30	179.20	12,581.7	-2,547.0	-131.4	2,550.2	2.25	-0.32	-2.23
15,331.0	87.70	178.90	12,585.8	-2,641.9	-129.8	2,644.8	0.53	0.42	-0.32
15,426.0	90.60	179.40	12,587.2	-2,736.9	-128.4	2,739.5	3.10	3.05	0.53
15,521.0	91.70	180.20	12,585.3	-2,831.9	-128.1	2,834.3	1.43	1.16	0.84
15,615.0	91.50	181.40	12,582.7	-2,925.8	-129.4	2,928.1	1.29	-0.21	1.28
15,710.0	89.70	180.70	12,581.7	-3,020.8	-131.1	3,023.0	2.03	-1.89	-0.74
15,805.0	90.90	179.60	12,581.2	-3,115.8	-131.4	3,117.8	1.71	1.26	-1.16
15,900.0	89.00	179.10	12,581.3	-3,210.8	-130.3	3,212.5	2.07	-2.00	-0.53
15,993.0	88.10	178.60	12,583.6	-3,303.7	-128.4	3,305.2	1.11	-0.97	-0.54
16,087.0	88.30	179.50	12,586.6	-3,397.7	-126.9	3,398.8	0.98	0.21	0.96
16,182.0	87.60	179.80	12,590.0	-3,492.6	-126.3	3,493.5	0.80	-0.74	0.32
16,277.0	89.10	177.70	12,592.7	-3,587.5	-124.2	3,588.1	2.72	1.58	-2.21
16,372.0	89.10	177.10	12,594.2	-3,682.4	-119.9	3,682.5	0.63	0.00	-0.63
16,467.0	89.00	177.00	12,595.8	-3,777.3	-115.0	3,776.9	0.15	-0.11	-0.11
16,563.0	91.70	177.10	12,595.2	-3,873.2	-110.1	3,872.2	2.81	2.81	0.10
16,657.0	91.10	177.00	12,592.9	-3,967.0	-105.3	3,965.6	0.65	-0.64	-0.11
16,752.0	90.00	176.40	12,592.0	-4,061.8	-99.8	4,059.9	1.32	-1.16	-0.63
16,848.0	90.50	176.80	12,591.6	-4,157.7	-94.1	4,155.1	0.67	0.52	0.42
16,943.0	90.70	178.80	12,590.6	-4,252.6	-90.4	4,249.6	2.12	0.21	2.11
17,038.0	90.10	180.00	12,589.9	-4,347.6	-89.5	4,344.3	1.41	-0.63	1.26
17,132.0	90.50	179.20	12,589.4	-4,441.6	-88.8	4,438.1	0.95	0.43	-0.85
17,227.0	89.30	177.40	12,589.6	-4,536.5	-86.0	4,532.7	2.28	-1.26	-1.89
17,322.0	90.80	177.50	12,589.5	-4,631.4	-81.8	4,627.1	1.58	1.58	0.11
17,416.0	88.70	178.60	12,589.9	-4,725.4	-78.6	4,720.6	2.52	-2.23	1.17
17,510.0	94.50	182.00	12,587.3	-4,819.3	-79.0	4,814.4	7.15	6.17	3.62
17,575.0	94.50	182.40	12,582.2	-4,884.0	-81.5	4,879.2	0.61	0.00	0.62
17,607.0	91.70	184.00	12,580.4	-4,915.9	-83.3	4,911.1	10.07	-8.75	5.00
17,702.0	86.00	183.20	12,582.4	-5,010.7	-89.3	5,006.1	6.06	-6.00	-0.84
17,734.0	88.40	184.00	12,583.9	-5,042.6	-91.3	5,038.0	7.90	7.50	2.50
17,759.0	88.50	183.90	12,584.6	-5,067.5	-93.0	5,063.0	0.57	0.40	-0.40
17,796.0	90.70	183.80	12,584.9	-5,104.4	-95.5	5,100.0	5.95	5.95	-0.27
17,828.0	89.80	183.00	12,584.7	-5,136.4	-97.4	5,132.0	3.76	-2.81	-2.50
17,860.0	89.10	182.60	12,585.0	-5,168.3	-98.9	5,164.0	2.52	-2.19	-1.25
17,891.0	88.30	182.80	12,585.7	-5,199.3	-100.4	5,195.0	2.66	-2.58	0.65
17,923.0	88.00	183.10	12,586.8	-5,231.2	-102.1	5,227.0	1.33	-0.94	0.94
17,954.0	87.80	183.90	12,587.9	-5,262.1	-103.9	5,257.9	2.66	-0.65	2.58
17,986.0	87.10	183.90	12,589.3	-5,294.0	-106.1	5,289.9	2.19	-2.19	0.00
18,081.0	88.40	183.10	12,593.0	-5,388.8	-111.9	5,384.8	1.61	1.37	-0.84
18,175.0	88.50	181.60	12,595.6	-5,482.7	-115.8	5,478.8	1.60	0.11	-1.60

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9/16 W1AP Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Site:	Section 9 16-26S-33E Salado Draw 9/16 W1AP Fed Com	MD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Well:	Salado Draw 9/16 W1AP Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
18,270.0	89.80	180.50	12,597.0	-5,577.6	-117.5	5,573.7	1.79	1.37	-1.16
18,365.0	88.90	182.60	12,598.1	-5,672.6	-120.1	5,668.6	2.40	-0.95	2.21
18,460.0	92.00	180.90	12,597.3	-5,767.5	-123.0	5,763.5	3.72	3.26	-1.79
18,555.0	86.60	177.30	12,598.5	-5,862.5	-121.5	5,858.1	6.83	-5.68	-3.79
18,650.0	88.80	177.60	12,602.3	-5,957.3	-117.3	5,952.5	2.34	2.32	0.32
18,744.0	88.30	177.20	12,604.7	-6,051.2	-113.0	6,045.9	0.68	-0.53	-0.43
18,839.0	87.80	176.30	12,607.9	-6,146.0	-107.6	6,140.1	1.08	-0.53	-0.95
18,934.0	88.50	178.10	12,611.0	-6,240.8	-103.0	6,234.5	2.03	0.74	1.89
19,030.0	89.80	177.00	12,612.4	-6,336.7	-98.9	6,329.9	1.77	1.35	-1.15
19,124.0	88.00	176.30	12,614.2	-6,430.5	-93.4	6,423.2	2.05	-1.91	-0.74
19,219.0	89.90	177.50	12,615.9	-6,525.3	-88.3	6,517.5	2.37	2.00	1.26
19,331.0	90.50	179.40	12,615.6	-6,637.3	-85.2	6,629.0	1.78	0.54	1.70
19,426.0	90.30	179.70	12,614.9	-6,732.3	-84.5	6,723.8	0.38	-0.21	0.32
19,521.0	89.70	179.80	12,614.9	-6,827.3	-84.1	6,818.6	0.64	-0.63	0.11
19,616.0	89.40	180.90	12,615.6	-6,922.3	-84.6	6,913.4	1.20	-0.32	1.16
19,711.0	90.10	181.60	12,616.1	-7,017.3	-86.7	7,008.3	1.04	0.74	0.74
19,806.0	91.00	182.00	12,615.1	-7,112.2	-89.7	7,103.2	1.04	0.95	0.42
19,900.0	90.40	183.40	12,614.0	-7,206.1	-94.1	7,197.2	1.62	-0.64	1.49
19,995.0	87.90	183.90	12,615.4	-7,300.9	-100.2	7,292.2	2.68	-2.63	0.53
20,090.0	87.80	182.40	12,619.0	-7,395.7	-105.4	7,387.1	1.58	-0.11	-1.58
20,185.0	87.70	181.00	12,622.7	-7,490.5	-108.2	7,482.0	1.48	-0.11	-1.47
20,280.0	88.40	180.20	12,625.9	-7,585.5	-109.2	7,576.8	1.12	0.74	-0.84
20,374.0	89.40	179.00	12,627.7	-7,679.5	-108.5	7,670.5	1.66	1.06	-1.28
20,469.0	90.60	179.10	12,627.7	-7,774.4	-107.0	7,765.2	1.27	1.26	0.11
20,564.0	90.90	179.20	12,626.5	-7,869.4	-105.6	7,859.9	0.33	0.32	0.11
20,658.0	91.70	179.10	12,624.4	-7,963.4	-104.2	7,953.6	0.86	0.85	-0.11
20,753.0	92.50	178.80	12,620.9	-8,058.3	-102.4	8,048.2	0.90	0.84	-0.32
20,848.0	90.70	178.30	12,618.2	-8,153.2	-100.0	8,142.8	1.97	-1.89	-0.53
20,944.0	90.50	179.30	12,617.2	-8,249.2	-98.0	8,238.4	1.06	-0.21	1.04
21,039.0	90.80	180.20	12,616.1	-8,344.2	-97.6	8,333.2	1.00	0.32	0.95
21,134.0	87.60	177.50	12,617.5	-8,439.2	-95.7	8,427.8	4.41	-3.37	-2.84
21,229.0	87.40	178.80	12,621.6	-8,534.0	-92.6	8,522.3	1.38	-0.21	1.37
21,324.0	86.40	178.20	12,626.8	-8,628.8	-90.1	8,616.8	1.23	-1.05	-0.63
21,418.0	87.30	179.50	12,631.9	-8,722.7	-88.3	8,710.3	1.68	0.96	1.38
21,513.0	89.00	181.50	12,635.0	-8,817.6	-89.1	8,805.1	2.76	1.79	2.11
21,608.0	89.00	182.90	12,636.6	-8,912.5	-92.7	8,900.0	1.47	0.00	1.47
21,703.0	89.50	182.20	12,637.9	-9,007.4	-97.0	8,995.0	0.91	0.53	-0.74
21,798.0	92.40	188.10	12,636.3	-9,102.0	-105.5	9,089.9	6.92	3.05	6.21
21,893.0	91.90	185.90	12,632.7	-9,196.2	-117.1	9,184.7	2.37	-0.53	-2.32
21,988.0	90.10	184.90	12,631.1	-9,290.8	-126.0	9,279.6	2.17	-1.89	-1.05
22,083.0	88.50	182.20	12,632.2	-9,385.6	-131.9	9,374.6	3.30	-1.68	-2.84
22,178.0	90.50	181.00	12,633.1	-9,480.5	-134.5	9,469.5	2.46	2.11	-1.26
22,273.0	91.20	181.00	12,631.7	-9,575.5	-136.2	9,564.4	0.74	0.74	0.00

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 9/16 W1AP Fed Com #2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Site:	Section 9 16-26S-33E Salado Draw 9/16 W1AP Fed Com	MD Reference:	3332 + 27 @ 3359.0usft (Patterson 231)
Well:	Salado Draw 9/16 W1AP Fed Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
22,367.0	90.40	180.40	12,630.4	-9,669.5	-137.3	9,658.3	1.06	-0.85	-0.64
22,462.0	89.60	181.40	12,630.4	-9,764.4	-138.8	9,753.2	1.35	-0.84	1.05
22,557.0	90.70	182.50	12,630.1	-9,859.4	-142.1	9,848.1	1.64	1.16	1.16
22,652.0	90.80	183.50	12,628.9	-9,954.3	-147.0	9,943.1	1.06	0.11	1.05
22,746.0	90.90	183.50	12,627.5	-10,048.1	-152.8	10,037.1	0.11	0.11	0.00
22,769.0	91.20	183.70	12,627.0	-10,071.0	-154.2	10,060.1	1.57	1.30	0.87
22,823.6	91.20	183.70	12,625.9	-10,125.5	-157.7	10,114.7	0.00	0.00	0.00
PBHL Salado Draw 9 16 W1AP Fed Com #2H									
22,825.0	91.20	183.70	12,625.9	-10,126.9	-157.8	10,116.1	0.00	0.00	0.00
22825.0' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
22,825.0	12,625.9	-10,126.9	-157.8	22825.0' MD Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Salado Draw 9/16 W1AP Fed Com #2H
COUNTY: Lea County N. M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 231

STRYKER
DIRECTIONAL

OFFICE: 936.582.7296

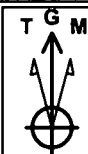
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.38°

GEODETIC ZONE: New Mexico Eastern Zone
3332 + 27 @ 3359.0usft (Patterson 231)
GROUND ELEVATION: 3332.0

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	387986.60	777986.70	32° 3' 51.669 N	103° 34' 9.823 W

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3400.0	0.00	0.00	3400.0	0.0	0.0	0.00	0.00	0.0	
3	3450.0	1.00	0.00	3450.0	0.4	0.0	2.00	0.00	-0.4	
4	4950.0	1.00	0.00	4949.8	26.6	0.0	0.00	0.00	-26.6	
5	5155.0	5.00	336.67	5154.5	36.6	-3.5	2.00	331.14	-36.6	
6	8433.3	5.00	336.67	8420.3	289.0	-116.7	0.00	0.00	-298.4	
7	8883.3	0.00	0.00	8670.0	309.0	-121.0	2.00	180.00	-308.4	
8	12004.4	0.00	0.00	11991.1	309.0	-121.0	0.00	0.00	-308.4	
9	12900.6	89.62	179.60	12564.0	-260.2	-117.0	10.00	179.60	260.7	
10	22773.6	89.62	179.60	12629.0	-10132.7	-47.8	0.00	10132.8		PBHL Salado Draw 9 16 W1AP Fed Com #2H



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.38°

Magnetic Field
Strength: 47695.4nT
Dip Angle: 59.90°
Date: 11/28/2018
Model: IGRF2015

SHL: 310° FNL; 2310° FEL
Section 9-26S-33E
PBHL: 100° FSL; 330° FEL
Section 16-26S-33E

RECEIVED
JUL 12 2019
HOBBS OGD

