

STRYKER

DIRECTIONAL

June 11, 2019

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

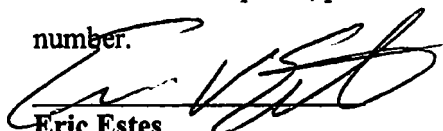
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Salado Draw 9 16 W0AP Federal Com #3H
Purple Sage; Wolfcamp
Lea County, New Mexico
API# 30-025-44648

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>
Glenn Thompson	Original Hole	1,127ft. to 21,034ft.	12-26-18 to 02-08-19	MWD Survey
Glenn Thompson	Side Track #1	14,516ft. to 20,109ft	02-25-19 to 03-14-19	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\Pavo Frio 29 30 B2FE Fed Com #1HM181158

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



June 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 December 26, 2018, through February 8, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,127feet to a depth of 21,034feet; and that I did on the day(s) of February 25, 2019, through March 14, 2019 conduct or supervise the taking of a SEDS Side Track #1 MWD Survey from a depth of 14,516feet to a depth of 20,109feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Salado Draw 9 16 W0AP Federal Com #003H, well API # 30-025-44648 in Lea 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



Microsoft
MWD Report



Company: Mawbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Corn 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Corn 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project Lea County N. M. Nad (83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Corn

Site Position:	Map	Northing:	387,936.57 usft	Latitude:	32° 3' 51.174 N
From:		Easting:	777,987.06 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 W0AP Fed Corn 3H

Well Position	+N-S	0.0 usft	Northing:	387,936.57 usft	Latitude:	32° 3' 51.174 N
	+E-W	0.0 usft	Easting:	777,987.06 usft	Longitude:	103° 34' 9.823 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,333.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/29/18	6.78	59.90	47,694.98378082

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	114.92	

Survey Program Date 06/10/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,127.0	21,034.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination



Microsoft
MWD Report



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Survey Calculation Method: Minimum Curvature
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 (°)
987.0	0.46	95.27	987.0	-7.0	4.4	8.3	147.75
1,127.0	0.80	84.10	1,127.0	-7.0	6.2	9.3	138.41
1,221.0	0.80	67.70	1,220.9	-6.6	7.4	10.0	131.78
1,315.0	0.70	69.00	1,314.9	-6.2	8.6	10.6	125.81
1,410.0	0.70	68.50	1,409.9	-5.8	9.7	11.3	120.85
1,505.0	0.60	51.60	1,504.9	-5.3	10.6	11.8	116.36
1,600.0	0.60	60.50	1,599.9	-4.7	11.4	12.3	112.36
1,793.0	0.50	57.90	1,792.9	-3.8	13.0	13.5	106.08
1,800.0	0.45	63.32	1,799.9	-3.7	13.1	13.6	105.91
Interp @ 1799.9 (Salado Draw 9/16 W0AP Fed Com 3H)							
1,888.0	0.60	161.90	1,887.9	-4.0	13.5	14.1	106.50
1,982.0	0.40	76.30	1,981.9	-4.4	14.0	14.7	107.44
2,076.0	0.30	79.20	2,075.9	-4.3	14.5	15.2	106.36
2,171.0	0.60	94.30	2,170.9	-4.3	15.3	15.9	105.57
2,266.0	1.40	273.00	2,265.9	-4.2	14.6	15.2	106.16
2,361.0	1.10	268.20	2,360.9	-4.2	12.6	13.2	108.52
2,456.0	0.80	258.50	2,455.9	-4.4	11.0	11.8	111.66
2,548.0	0.50	248.40	2,547.8	-4.6	10.0	11.0	114.92
2,643.0	0.20	189.40	2,642.8	-5.0	9.6	10.8	117.37
2,738.0	0.30	144.50	2,737.8	-5.3	9.7	11.1	118.77
2,833.0	0.70	104.90	2,832.8	-5.7	10.4	11.8	118.62
2,927.0	1.20	99.20	2,926.8	-6.0	11.9	13.3	116.63
3,022.0	1.00	157.60	3,021.8	-6.9	13.2	14.9	117.57
3,116.0	1.30	149.20	3,115.8	-8.6	14.1	16.5	121.35
3,211.0	0.40	186.30	3,210.8	-9.8	14.6	17.6	123.97
3,305.0	0.40	324.30	3,304.8	-9.9	14.4	17.5	124.55
3,400.0	1.00	29.80	3,399.8	-8.9	14.6	17.1	121.40



Microsoft MWD Report



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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 (°)
3,486.0	1.60	28.80	3,495.8	-7.0	15.7	17.2	114.11
3,590.0	1.10	20.40	3,589.7	-5.0	16.6	17.3	108.80
3,686.0	1.10	273.00	3,685.7	-4.1	16.0	16.5	104.37
3,781.0	1.70	289.30	3,780.7	-3.6	13.8	14.2	104.61
3,876.0	0.70	336.70	3,875.7	-2.8	12.2	12.5	101.97
3,969.0	0.10	68.10	3,968.7	-2.0	12.1	12.2	99.58
4,065.0	0.70	133.60	4,064.7	-2.4	12.6	12.8	100.84
4,160.0	1.30	238.70	4,159.7	-3.4	12.1	12.5	105.59
4,254.0	1.50	241.90	4,253.6	-4.5	10.1	11.0	114.09
4,348.0	1.70	236.60	4,347.6	-5.8	7.8	9.8	126.81
4,444.0	1.80	221.40	4,443.5	-7.8	5.6	9.6	144.07
4,539.0	1.60	182.80	4,538.5	-10.2	4.6	11.2	155.86
4,634.0	1.70	161.80	4,633.5	-12.9	4.9	13.8	158.97
4,729.0	1.60	216.40	4,728.4	-15.3	4.6	16.0	163.24
4,824.0	1.80	210.50	4,823.4	-17.6	3.1	17.9	170.16
4,918.0	2.80	262.20	4,917.3	-19.2	0.0	19.2	179.91
5,013.0	3.10	269.60	5,012.2	-19.5	-4.8	20.1	183.90
5,107.0	2.60	284.60	5,106.1	-19.0	-9.4	21.2	206.39
5,202.0	3.50	305.70	5,200.9	-16.8	-13.9	21.8	219.59
5,296.0	3.60	308.30	5,294.8	-13.3	-18.5	22.8	234.36
5,391.0	5.10	312.50	5,389.5	-8.6	-24.0	25.5	250.31
5,485.0	4.90	314.80	5,483.1	-2.9	-29.9	30.1	264.40
5,579.0	4.50	313.10	5,576.8	2.4	-35.5	35.5	273.90
5,674.0	4.50	313.80	5,671.5	7.5	-40.9	41.6	280.46
5,768.0	4.30	314.80	5,765.2	12.6	-46.0	47.7	285.29
5,863.0	3.90	315.00	5,860.0	17.4	-50.8	53.7	288.87
5,957.0	3.60	312.80	5,953.8	21.6	-55.3	59.3	291.39



Microsoft
MWD Report



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6,053.0	3.40	313.60	6,049.6	25.7	-59.5	64.8	293.32
6,148.0	4.40	313.60	6,144.4	30.1	-64.2	70.9	295.13
6,242.0	4.40	315.80	6,238.1	35.2	-69.3	77.7	296.91
6,338.0	4.20	313.00	6,333.9	40.2	-74.5	84.6	298.37
6,432.0	4.20	312.40	6,427.6	44.9	-79.5	91.3	299.44
6,527.0	4.00	313.40	6,522.4	49.5	-84.5	97.9	300.37
6,622.0	4.40	312.10	6,617.1	54.2	-89.6	104.7	301.18
6,717.0	4.60	310.20	6,711.8	59.1	-95.2	112.1	301.84
6,812.0	4.30	311.50	6,806.5	64.0	-100.8	119.4	302.39
6,906.0	4.00	309.00	6,900.3	68.4	-106.0	126.1	302.82
7,001.0	3.80	309.80	6,995.1	72.5	-111.0	132.5	303.14
7,096.0	4.20	307.60	7,089.8	76.6	-116.2	139.1	303.40
7,191.0	4.30	305.60	7,184.6	80.8	-121.8	146.2	303.55
7,285.0	4.80	308.20	7,278.3	85.3	-127.8	153.6	303.72
7,380.0	4.60	308.60	7,373.0	90.1	-133.9	161.4	303.94
7,475.0	4.10	306.70	7,467.7	94.5	-139.6	168.6	304.10
7,570.0	3.90	300.00	7,562.4	98.2	-145.1	175.2	304.08
7,665.0	3.60	298.60	7,657.2	101.2	-150.5	181.4	303.92
7,760.0	4.00	295.90	7,752.0	104.1	-156.1	187.6	303.69
7,855.0	4.90	299.90	7,846.7	107.5	-162.6	195.0	303.48
7,949.0	5.40	304.80	7,940.4	112.1	-169.7	203.4	303.44
8,044.0	5.10	303.90	8,035.0	117.0	-176.9	212.1	303.48
8,139.0	5.20	313.90	8,129.6	122.3	-183.5	220.5	303.69
8,234.0	5.10	312.20	8,224.2	128.1	-189.7	228.9	304.03
8,327.0	4.70	309.40	8,316.9	133.3	-195.7	236.8	304.26
8,421.0	4.70	312.20	8,410.5	138.4	-201.6	244.5	304.47
8,516.0	4.40	310.30	8,505.2	143.3	-207.2	252.0	304.67



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Salado Draw 9/16 W0AP Fed Com 3H
3333 + 27 @ 3360.0usft (Patterson 231)
3333 + 27 @ 3360.0usft (Patterson 231)
Grid
Minimum Curvature
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 (°)
8,610.0	4.10	309.30	8,599.0	147.8	-212.6	258.9	304.81
8,705.0	4.10	306.70	8,693.7	152.0	-217.9	265.7	304.89
8,800.0	4.20	307.40	8,788.5	156.1	-223.4	272.6	304.94
8,894.0	3.80	308.80	8,882.3	160.2	-228.6	279.1	305.02
8,989.0	3.50	312.60	8,977.1	164.1	-233.2	285.1	305.14
9,084.0	3.30	310.70	9,071.9	167.8	-237.4	290.7	305.26
9,178.0	3.20	321.20	9,165.8	171.7	-241.1	295.9	305.45
9,273.0	3.10	325.60	9,260.6	175.8	-244.2	300.9	305.76
9,368.0	3.20	322.70	9,355.5	180.1	-247.2	305.9	306.07
9,463.0	3.30	320.60	9,450.3	184.3	-250.6	311.1	306.33
9,558.0	2.90	321.00	9,545.2	188.3	-253.8	316.0	306.56
9,652.0	2.90	322.00	9,639.1	192.0	-256.8	320.6	306.78
9,746.0	2.40	316.90	9,733.0	195.3	-259.6	324.9	306.95
9,841.0	2.20	311.20	9,827.9	198.0	-262.3	328.6	307.04
9,936.0	1.60	311.20	9,922.8	200.0	-264.7	331.8	307.08
10,031.0	1.70	288.30	10,017.8	201.3	-267.0	334.4	307.02
10,126.0	3.40	301.30	10,112.7	203.3	-270.8	338.6	306.89
10,221.0	3.40	303.40	10,207.5	206.3	-275.5	344.2	306.82
10,315.0	3.00	307.70	10,301.4	209.3	-279.8	349.4	306.80
10,410.0	2.90	307.00	10,396.3	212.3	-283.7	354.3	306.80
10,504.0	3.90	313.40	10,490.1	215.9	-287.9	359.9	306.88
10,598.0	3.70	316.90	10,583.9	220.3	-292.3	366.0	307.00
10,692.0	3.60	317.60	10,677.7	224.7	-296.4	371.9	307.17
10,787.0	3.30	313.60	10,772.5	228.8	-300.4	377.6	307.30
10,880.0	3.00	306.50	10,865.4	232.1	-304.3	382.7	307.34
10,974.0	3.20	303.30	10,959.2	235.0	-308.4	387.8	307.30
11,069.0	2.90	307.60	11,054.1	237.9	-312.6	392.8	307.28



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11,163.0	2.80	304.50	11,148.0	240.7	-316.3	397.5	307.26
11,257.0	2.70	308.60	11,241.9	243.3	-320.0	402.0	307.26
11,352.0	2.60	321.30	11,336.8	246.4	-323.1	406.3	307.34
11,446.0	2.20	326.00	11,430.7	249.6	-325.4	410.1	307.49
11,462.0	2.20	325.00	11,446.7	250.1	-325.7	410.7	307.52
11,589.0	2.00	338.20	11,573.6	254.1	-328.0	414.9	307.77
11,620.3	2.03	341.36	11,604.9	255.2	-328.3	415.8	307.85
B.B. Salado Draw 9/16 W0AP Fed Com 3H							
11,683.0	2.10	347.40	11,667.5	257.3	-328.9	417.7	308.04
11,742.0	2.00	349.90	11,726.5	259.4	-329.4	419.3	308.22
11,776.0	2.00	346.10	11,760.5	260.6	-329.6	420.2	308.33
11,807.0	1.00	310.50	11,791.5	261.3	-329.9	420.9	308.37
11,839.0	1.70	205.00	11,823.5	261.0	-330.4	421.0	308.31
11,871.0	3.50	193.10	11,855.4	259.6	-330.8	420.5	308.13
11,902.0	4.10	189.80	11,886.4	257.6	-331.2	419.6	307.88
11,934.0	4.10	183.70	11,918.3	255.4	-331.5	418.4	307.61
11,965.0	6.50	178.60	11,949.1	252.5	-331.5	416.7	307.30
11,997.0	10.90	179.70	11,980.8	247.7	-331.4	413.7	306.77
12,028.0	16.40	181.20	12,010.9	240.4	-331.5	409.5	305.94
12,060.0	21.60	182.00	12,041.1	229.9	-331.8	403.7	304.72
12,091.0	27.40	185.30	12,069.3	217.1	-332.7	397.2	303.13
12,123.0	33.00	188.70	12,097.0	201.2	-334.7	390.5	301.01
12,155.0	37.40	191.00	12,123.1	183.0	-337.8	384.2	298.44
12,186.0	41.10	193.50	12,147.1	163.8	-342.0	379.2	295.60
12,218.0	48.00	195.50	12,169.9	142.1	-347.6	375.6	292.24
12,250.0	54.70	196.50	12,189.9	118.1	-354.5	373.7	288.43
12,281.0	59.70	197.70	12,206.7	93.2	-362.2	374.0	284.43



Microsoft
MWD Report



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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
12,313.0	65.80	197.00	12,221.3	66.1	-370.7	376.5	280.11
12,344.0	72.80	196.70	12,232.3	38.4	-379.1	381.0	275.78
12,375.0	79.20	195.00	12,239.8	9.4	-387.3	387.4	271.39
12,407.0	84.30	194.30	12,244.4	-21.2	-395.3	395.9	266.93
12,438.0	84.60	194.60	12,247.4	-51.1	-403.0	406.2	262.78
12,470.0	85.00	194.50	12,250.3	-81.9	-411.0	419.1	258.73
12,502.0	89.00	194.40	12,251.9	-112.9	-419.0	433.9	254.92
12,565.0	91.00	194.60	12,251.9	-173.9	-434.7	468.2	248.20
12,659.0	88.90	195.90	12,252.0	-264.5	-459.5	530.2	240.07
12,753.0	88.30	196.00	12,254.3	-354.9	-485.3	601.2	233.82
12,848.0	90.40	196.90	12,255.4	-446.0	-512.2	679.1	228.95
12,943.0	92.80	198.30	12,252.7	-536.5	-540.9	761.8	225.23
13,038.0	90.40	196.80	12,250.1	-627.0	-569.5	847.1	222.25
13,132.0	89.60	195.10	12,250.1	-717.4	-595.4	932.3	219.69
13,227.0	89.50	193.90	12,250.8	-809.4	-619.1	1,019.0	217.41
13,321.0	92.80	195.10	12,248.9	-900.4	-642.7	1,106.2	215.52
13,415.0	87.00	190.80	12,249.1	-991.9	-663.7	1,193.5	213.79
13,510.0	88.00	189.90	12,253.3	-1,085.3	-680.8	1,281.1	212.10
13,605.0	91.50	189.40	12,253.7	-1,178.9	-696.7	1,369.4	210.58
13,700.0	91.70	188.70	12,251.0	-1,272.7	-711.6	1,458.1	209.21
13,795.0	90.00	183.40	12,249.6	-1,367.1	-721.6	1,545.9	207.83
13,891.0	88.80	182.80	12,250.8	-1,463.0	-726.8	1,633.6	206.42
13,986.0	90.80	183.90	12,250.9	-1,557.8	-732.4	1,721.4	205.18
14,081.0	89.60	185.10	12,250.6	-1,652.5	-739.8	1,810.6	204.12
14,175.0	88.80	184.00	12,251.9	-1,748.2	-747.3	1,899.4	203.17
14,269.0	88.80	182.50	12,253.9	-1,840.0	-752.6	1,988.0	202.25
14,364.0	88.20	179.20	12,256.4	-1,935.0	-754.0	2,076.7	201.29



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
14,459.0	90.20	178.70	12,257.7	-2,029.9	-752.3	2,164.8	200.33
14,570.0	88.70	177.90	12,258.8	-2,140.9	-749.0	2,268.1	199.28
14,577.0	88.71	177.87	12,258.9	-2,147.9	-748.7	2,274.6	199.22
14577.0' MD Top of Fish - Interp @ 12258.9 (Salado Draw 9/16 W0AP Fed Com 3H)							
14,664.0	88.80	177.50	12,260.8	-2,234.8	-745.2	2,355.7	198.44
14,758.0	90.80	178.90	12,261.1	-2,328.7	-742.3	2,444.2	197.68
14,854.0	89.30	179.30	12,261.1	-2,424.7	-740.8	2,535.3	196.99
14,948.0	89.70	180.50	12,261.9	-2,518.7	-740.6	2,625.3	196.39
15,043.0	91.60	181.20	12,260.8	-2,613.7	-742.0	2,717.0	195.85
15,138.0	90.00	180.20	12,259.5	-2,708.7	-743.2	2,808.8	195.34
15,233.0	87.60	178.90	12,261.5	-2,803.6	-742.4	2,900.3	194.83
15,327.0	89.70	180.50	12,263.7	-2,897.6	-741.9	2,991.1	194.36
15,422.0	88.40	179.30	12,265.3	-2,992.6	-741.8	3,083.1	193.92
15,518.0	91.30	181.50	12,265.5	-3,088.5	-742.4	3,176.5	193.52
15,612.0	86.60	178.20	12,267.2	-3,182.5	-742.2	3,267.9	193.13
15,706.0	85.20	177.60	12,274.0	-3,276.2	-738.8	3,358.4	192.71
15,802.0	89.10	179.90	12,278.7	-3,372.0	-736.7	3,451.5	192.32
15,896.0	90.90	181.90	12,278.7	-3,466.0	-738.2	3,543.7	192.02
15,989.0	90.50	180.10	12,277.6	-3,559.0	-739.8	3,635.0	191.74
16,084.0	90.30	180.60	12,276.9	-3,654.0	-740.4	3,728.2	191.45
16,178.0	90.70	180.40	12,276.1	-3,748.0	-741.2	3,820.5	191.19
16,273.0	91.70	180.20	12,274.1	-3,842.9	-741.7	3,913.9	190.92
16,368.0	90.20	177.80	12,272.5	-3,937.9	-740.0	4,006.8	190.64
16,464.0	90.40	177.70	12,272.0	-4,033.8	-736.2	4,100.5	190.34
16,559.0	91.50	179.00	12,270.5	-4,128.8	-733.5	4,193.4	190.07
16,654.0	90.40	179.80	12,268.9	-4,223.7	-732.5	4,286.8	189.84
16,749.0	91.50	181.20	12,267.3	-4,318.7	-733.3	4,380.5	189.64



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
16,781.0	90.40	180.90	12,266.8	-4,350.7	-733.9	4,412.2	189.58
16,812.0	88.80	180.60	12,267.0	-4,381.7	-734.3	4,442.8	189.51
16,844.0	85.90	179.00	12,268.5	-4,413.7	-734.2	4,474.3	189.44
16,877.0	86.20	179.90	12,270.8	-4,446.6	-733.9	4,506.8	189.37
16,908.0	85.90	180.00	12,272.9	-4,477.5	-733.9	4,537.3	189.31
16,940.0	85.40	180.00	12,275.3	-4,509.4	-733.9	4,568.8	189.24
17,034.0	83.90	180.00	12,284.1	-4,603.0	-733.9	4,661.2	189.06
17,128.0	84.70	179.60	12,293.4	-4,696.5	-733.6	4,753.5	188.88
17,159.0	85.50	179.60	12,296.1	-4,727.4	-733.3	4,784.0	188.82
17,191.0	86.60	180.50	12,298.3	-4,759.4	-733.4	4,815.5	188.76
17,223.0	88.20	181.10	12,299.7	-4,791.3	-733.8	4,847.2	188.71
17,254.0	88.30	181.70	12,300.7	-4,822.3	-734.6	4,877.9	188.66
17,286.0	89.20	183.00	12,301.4	-4,854.3	-735.9	4,909.7	188.62
17,317.0	91.30	182.70	12,301.2	-4,885.2	-737.4	4,940.6	188.58
17,349.0	92.40	182.70	12,300.2	-4,917.2	-738.9	4,972.4	188.55
17,380.0	91.60	182.20	12,299.1	-4,948.1	-740.3	5,003.2	188.51
17,411.0	90.00	182.30	12,298.7	-4,979.1	-741.5	5,034.0	188.47
17,442.0	89.60	181.80	12,298.8	-5,010.1	-742.6	5,064.8	188.43
17,474.0	89.80	181.50	12,299.0	-5,042.1	-743.5	5,096.6	188.39
17,505.0	90.30	179.00	12,298.9	-5,073.1	-743.6	5,127.3	188.34
17,540.0	90.00	176.90	12,298.8	-5,108.0	-742.4	5,161.7	188.27
17,571.0	89.80	176.80	12,298.9	-5,139.0	-740.7	5,192.1	188.20
17,603.0	89.80	177.60	12,299.0	-5,170.9	-739.1	5,223.5	188.13
17,635.0	90.00	178.20	12,299.1	-5,202.9	-737.9	5,255.0	188.07
17,668.0	89.10	178.10	12,299.3	-5,233.9	-736.9	5,285.5	188.01
17,698.0	89.50	178.50	12,299.7	-5,265.9	-738.0	5,317.1	187.96
17,730.0	91.40	176.80	12,299.4	-5,297.9	-734.7	5,348.6	187.90



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
17,761.0	92.00	177.40	12,298.5	-5,328.8	-733.1	5,379.0	187.83
17,793.0	90.90	178.50	12,297.7	-5,360.8	-732.0	5,410.5	187.78
17,825.0	90.00	180.80	12,297.5	-5,392.8	-731.8	5,442.2	187.73
17,856.0	90.50	181.30	12,297.3	-5,423.8	-732.3	5,473.0	187.69
17,888.0	91.60	181.60	12,296.7	-5,455.7	-733.2	5,504.8	187.65
17,919.0	93.50	181.10	12,295.4	-5,488.7	-733.9	5,535.6	187.62
17,951.0	91.60	179.80	12,293.9	-5,518.7	-734.1	5,567.3	187.58
17,983.0	91.90	180.80	12,293.0	-5,550.7	-734.3	5,599.0	187.54
18,000.0	92.28	179.48	12,292.3	-5,567.7	-734.3	5,615.9	187.51
Interp @ 12245.8 (Salado Draw 9/16 W0AP Fed Com 3H)							
18,014.0	92.60	178.40	12,291.7	-5,581.6	-734.1	5,629.7	187.49
18,046.0	93.30	179.30	12,290.1	-5,613.6	-733.4	5,661.3	187.44
18,077.0	92.60	178.60	12,288.5	-5,644.5	-732.9	5,691.9	187.40
18,109.0	92.60	179.30	12,287.1	-5,676.5	-732.3	5,723.5	187.35
18,140.0	91.00	175.60	12,286.1	-5,707.4	-730.9	5,754.1	187.30
18,172.0	89.60	172.40	12,285.9	-5,739.3	-727.6	5,785.2	187.22
18,204.0	89.80	173.10	12,286.1	-5,771.0	-723.5	5,816.2	187.15
18,235.0	90.00	177.40	12,286.1	-5,801.9	-721.0	5,846.5	187.08
18,267.0	89.50	179.10	12,286.3	-5,833.9	-720.0	5,878.1	187.04
18,298.0	88.70	181.90	12,286.5	-5,864.9	-720.3	5,908.9	187.00
18,330.0	90.60	183.70	12,286.4	-5,896.8	-721.8	5,940.8	186.98
18,362.0	91.60	183.60	12,285.8	-5,928.8	-723.9	5,972.8	186.96
18,393.0	92.10	183.00	12,284.8	-5,959.7	-725.6	6,003.7	186.94
18,425.0	93.80	183.00	12,283.1	-5,991.6	-727.3	6,035.6	186.92
18,456.0	95.20	182.50	12,280.7	-6,022.5	-728.8	6,066.4	186.90
18,488.0	96.10	182.80	12,277.6	-6,054.3	-730.3	6,098.2	186.88
18,519.0	95.60	182.50	12,274.4	-6,085.1	-731.7	6,128.9	186.86



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
18,551.0	93.00	180.80	12,272.0	-6,117.0	-732.6	6,160.7	186.83
18,583.0	92.70	180.90	12,270.4	-6,148.9	-733.1	6,192.5	186.80
18,615.0	90.90	180.20	12,269.4	-6,180.9	-733.4	6,224.3	186.77
18,646.0	89.70	178.10	12,269.2	-6,211.9	-732.9	6,255.0	186.73
18,678.0	89.90	176.40	12,269.4	-6,243.9	-731.4	6,286.6	186.68
18,709.0	90.20	175.90	12,269.3	-6,274.8	-729.3	6,317.0	186.63
18,741.0	89.80	175.10	12,269.3	-6,306.7	-726.8	6,348.4	186.57
18,772.0	90.70	174.00	12,269.2	-6,337.6	-723.9	6,378.8	186.52
18,804.0	90.90	172.10	12,268.7	-6,369.3	-720.0	6,409.9	186.45
18,836.0	90.40	170.60	12,268.4	-6,401.0	-715.2	6,440.8	186.38
18,867.0	90.30	169.90	12,268.2	-6,431.5	-709.9	6,470.6	186.30
18,899.0	89.70	169.60	12,268.2	-6,463.0	-704.2	6,501.3	186.22
18,931.0	89.40	169.80	12,268.4	-6,494.5	-698.5	6,531.9	186.14
18,963.0	90.00	169.30	12,268.6	-6,526.0	-692.7	6,562.6	186.06
18,994.0	89.50	167.20	12,268.7	-6,556.3	-686.4	6,592.1	185.98
19,026.0	88.50	165.00	12,269.3	-6,587.4	-678.7	6,622.2	185.88
19,058.0	88.40	165.00	12,270.2	-6,618.3	-670.4	6,652.1	185.78
19,089.0	87.90	160.90	12,271.2	-6,647.9	-661.4	6,680.7	185.68
19,108.0	88.60	158.90	12,271.8	-6,665.7	-654.8	6,697.8	185.61
19,140.0	88.70	158.00	12,272.5	-6,695.6	-643.1	6,726.3	185.49
19,171.0	89.40	158.00	12,273.0	-6,724.2	-631.5	6,753.8	185.36
19,203.0	91.70	155.70	12,272.7	-6,753.6	-618.9	6,781.9	185.24
19,235.0	92.70	156.50	12,271.5	-6,782.8	-605.9	6,809.9	185.10
19,266.0	93.20	157.40	12,269.9	-6,811.3	-593.8	6,837.2	184.98
19,330.0	93.60	160.70	12,266.1	-6,871.0	-571.0	6,894.7	184.75
19,361.0	92.20	161.20	12,264.5	-6,900.3	-560.9	6,923.0	184.65
19,393.0	93.00	161.00	12,263.1	-6,930.5	-550.5	6,952.3	184.54



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
19,425.0	92.40	160.50	12,261.6	-6,980.7	-540.0	6,981.6	184.44
19,457.0	92.30	160.40	12,260.3	-6,990.8	-529.3	7,010.8	184.33
19,488.0	92.70	161.00	12,258.9	-7,020.0	-519.0	7,039.2	184.23
19,520.0	93.10	161.00	12,257.3	-7,050.3	-508.6	7,068.6	184.13
19,551.0	92.30	161.60	12,255.8	-7,079.6	-498.7	7,097.1	184.03
19,583.0	91.90	161.60	12,254.6	-7,109.9	-488.6	7,126.7	183.93
19,615.0	91.10	162.10	12,253.8	-7,140.3	-478.6	7,156.3	183.84
19,646.0	89.80	162.40	12,253.6	-7,169.8	-469.2	7,185.2	183.74
19,678.0	89.90	162.60	12,253.7	-7,200.4	-459.6	7,215.0	183.65
19,709.0	89.00	161.80	12,253.9	-7,229.9	-450.1	7,243.9	183.56
19,741.0	87.90	161.20	12,254.8	-7,260.2	-439.9	7,273.5	183.47
19,773.0	87.70	161.10	12,256.0	-7,290.5	-429.6	7,303.1	183.37
19,805.0	88.50	161.70	12,257.1	-7,320.8	-419.4	7,332.8	183.28
19,836.0	89.10	162.50	12,257.8	-7,350.3	-409.9	7,361.7	183.19
19,867.0	89.30	162.60	12,258.2	-7,379.8	-400.6	7,390.7	183.11
19,899.0	90.60	163.50	12,258.2	-7,410.5	-391.3	7,420.8	183.02
19,931.0	90.70	164.20	12,257.9	-7,441.2	-382.4	7,451.0	182.94
19,962.0	90.70	164.30	12,257.5	-7,471.0	-374.0	7,480.4	182.87
19,994.0	90.10	164.10	12,257.2	-7,501.8	-365.2	7,510.7	182.79
20,026.0	88.40	163.40	12,257.7	-7,532.5	-356.3	7,541.0	182.71
20,089.0	87.30	163.40	12,260.0	-7,592.9	-338.3	7,600.4	182.55
20,121.0	89.70	165.20	12,260.9	-7,623.7	-329.6	7,630.8	182.48
20,152.0	90.20	166.20	12,260.9	-7,653.7	-322.0	7,660.5	182.41
20,184.0	91.10	167.40	12,260.5	-7,684.8	-314.7	7,691.3	182.34
20,215.0	91.20	167.60	12,259.9	-7,715.1	-308.0	7,721.3	182.29
20,247.0	90.00	169.30	12,259.6	-7,746.5	-301.6	7,752.3	182.23
20,278.0	90.90	170.40	12,259.3	-7,777.0	-296.1	7,782.6	182.18



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
20,310.0	88.70	170.30	12,259.4	-7,808.5	-290.7	7,813.9	182.13
20,342.0	87.60	170.80	12,260.5	-7,840.1	-285.5	7,845.3	182.09
20,373.0	89.00	171.40	12,261.4	-7,870.7	-280.7	7,875.7	182.04
20,405.0	87.70	172.50	12,262.3	-7,902.3	-276.2	7,907.2	182.00
20,434.0	89.10	173.30	12,263.1	-7,931.1	-272.6	7,935.8	181.97
20,465.0	88.20	174.10	12,263.9	-7,961.9	-269.2	7,966.5	181.94
20,496.0	87.50	175.10	12,265.0	-7,992.8	-266.3	7,997.2	181.91
20,528.0	88.00	176.90	12,266.3	-8,024.7	-264.1	8,029.0	181.88
20,559.0	88.30	177.40	12,267.3	-8,055.6	-262.5	8,059.9	181.87
20,591.0	88.20	180.00	12,268.3	-8,087.6	-261.8	8,091.8	181.85
20,623.0	88.20	182.40	12,269.3	-8,119.5	-262.5	8,123.8	181.85
20,654.0	88.40	183.20	12,270.2	-8,150.5	-264.0	8,154.8	181.86
20,718.0	87.50	183.80	12,272.5	-8,214.3	-267.9	8,218.7	181.87
20,749.0	87.30	183.70	12,273.9	-8,245.2	-269.9	8,249.7	181.88
20,781.0	87.10	183.50	12,275.4	-8,277.1	-271.9	8,281.6	181.88
20,844.0	87.10	184.10	12,278.6	-8,339.9	-276.1	8,344.5	181.90
20,939.0	87.30	186.40	12,283.3	-8,434.4	-284.8	8,439.2	181.93
21,034.0	87.30	187.00	12,287.7	-8,528.6	-295.9	8,533.8	181.99

21034' MD Survey Depth - New SHL Salado Draw 9/16 W0AP Fed Com 3H - PBHL Salado Draw 9/16 W0AP Fed Com 3H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,577.0	12,258.9	-2,147.9	-748.7	14577.0' MD Top of Fish
21,034.0	12,287.7	-8,528.6	-295.9	21034' MD Survey Depth



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program Date 06/11/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,127.0	14,516.0	MWD Survey (Original Hole)	MWD	MWD v3: standard declination
14,516.0	20,109.0	Stk#2 Whipstock (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
967.0	0.46	95.27	967.0	-7.0	4.4	8.3	147.75
1,127.0	0.80	84.10	1,127.0	-7.0	6.2	9.3	138.41
1,221.0	0.80	67.70	1,220.9	-6.6	7.4	10.0	131.78
1,315.0	0.70	69.00	1,314.9	-6.2	8.6	10.6	125.81
1,410.0	0.70	68.50	1,409.9	-5.8	9.7	11.3	120.85
1,505.0	0.60	51.60	1,504.9	-5.3	10.6	11.8	116.36
1,600.0	0.60	60.50	1,599.9	-4.7	11.4	12.3	112.36
1,793.0	0.50	57.90	1,792.9	-3.8	13.0	13.5	106.08
1,800.0	0.45	63.32	1,799.9	-3.7	13.1	13.6	105.91
Interp @ 1799.9 (Salado Draw 9/16 W0AP Fed Com 3H)							
1,888.0	0.60	161.90	1,887.9	-4.0	13.5	14.1	106.50
1,982.0	0.40	76.30	1,981.9	-4.4	14.0	14.7	107.44
2,076.0	0.30	79.20	2,075.9	-4.3	14.5	15.2	106.36
2,171.0	0.60	94.30	2,170.9	-4.3	15.3	15.9	105.57
2,266.0	1.40	273.00	2,265.9	-4.2	14.6	15.2	106.16
2,361.0	1.10	268.20	2,360.9	-4.2	12.6	13.2	108.52
2,456.0	0.80	258.50	2,455.9	-4.4	11.0	11.8	111.66
2,548.0	0.50	248.40	2,547.8	-4.8	10.0	11.0	114.92
2,643.0	0.20	189.40	2,642.8	-5.0	9.6	10.8	117.37
2,738.0	0.30	144.50	2,737.8	-5.3	9.7	11.1	118.77
2,833.0	0.70	104.90	2,832.8	-5.7	10.4	11.8	118.62



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
2,927.0	1.20	99.20	2,926.8	-6.0	11.9	13.3	116.63
3,022.0	1.00	157.60	3,021.8	-6.9	13.2	14.9	117.57
3,116.0	1.30	149.20	3,115.8	-8.6	14.1	16.5	121.35
3,211.0	0.40	186.30	3,210.8	-9.8	14.6	17.6	123.97
3,305.0	0.40	324.30	3,304.8	-9.9	14.4	17.5	124.55
3,400.0	1.00	29.80	3,399.8	-8.9	14.6	17.1	121.40
3,496.0	1.60	28.90	3,495.8	-7.0	15.7	17.2	114.11
3,590.0	1.10	20.40	3,589.7	-5.0	16.6	17.3	106.80
3,686.0	1.10	273.00	3,685.7	-4.1	16.0	16.5	104.37
3,781.0	1.70	289.30	3,780.7	-3.6	13.8	14.2	104.61
3,876.0	0.70	336.70	3,875.7	-2.6	12.2	12.5	101.97
3,969.0	0.10	66.10	3,968.7	-2.0	12.1	12.2	99.58
4,065.0	0.70	133.60	4,064.7	-2.4	12.6	12.8	100.84
4,160.0	1.30	238.70	4,159.7	-3.4	12.1	12.5	105.59
4,254.0	1.50	241.90	4,253.6	-4.5	10.1	11.0	114.09
4,348.0	1.70	236.60	4,347.6	-5.8	7.8	9.8	126.81
4,444.0	1.80	221.40	4,443.5	-7.8	5.6	9.6	144.07
4,539.0	1.60	182.80	4,538.5	-10.2	4.6	11.2	155.86
4,634.0	1.70	161.80	4,633.5	-12.9	4.9	13.8	158.97
4,729.0	1.60	216.40	4,728.4	-15.3	4.6	16.0	163.24
4,824.0	1.80	210.50	4,823.4	-17.6	3.1	17.9	170.16
4,918.0	2.80	262.20	4,917.3	-19.2	0.0	19.2	179.91
5,013.0	3.10	269.60	5,012.2	-19.5	-4.8	20.1	193.90
5,107.0	2.60	284.60	5,106.1	-19.0	-9.4	21.2	206.39
5,202.0	3.50	305.70	5,200.9	-16.8	-13.9	21.8	219.59
5,296.0	3.60	308.30	5,294.8	-13.3	-18.5	22.8	234.36
5,391.0	5.10	312.50	5,389.5	-8.6	-24.0	25.5	250.31



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Salado Draw 9/16 W0AP Fed Com 3H
3333 + 27 @ 3360.0usft (Patterson 231)
3333 + 27 @ 3360.0usft (Patterson 231)
Grid
Minimum Curvature
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 (°)
5,485.0	4.90	314.80	5,483.1	-2.9	-29.9	30.1	264.40
5,579.0	4.50	313.10	5,576.8	2.4	-35.5	35.5	273.90
5,674.0	4.50	313.80	5,671.5	7.5	-40.9	41.6	280.46
5,768.0	4.30	314.80	5,765.2	12.6	-46.0	47.7	285.29
5,863.0	3.90	315.00	5,860.0	17.4	-50.8	53.7	288.87
5,957.0	3.80	312.90	5,953.8	21.6	-55.3	59.3	291.39
6,053.0	3.40	313.60	6,049.6	25.7	-59.5	64.8	293.32
6,148.0	4.40	313.60	6,144.4	30.1	-64.2	70.9	295.13
6,242.0	4.40	315.80	6,238.1	35.2	-69.3	77.7	296.91
6,338.0	4.20	313.00	6,333.9	40.2	-74.5	84.6	298.37
6,432.0	4.20	312.40	6,427.6	44.9	-79.5	91.3	299.44
6,527.0	4.00	313.40	6,522.4	49.5	-84.5	97.9	300.37
6,622.0	4.40	312.10	6,617.1	54.2	-89.6	104.7	301.18
6,717.0	4.60	310.20	6,711.8	59.1	-95.2	112.1	301.84
6,812.0	4.30	311.50	6,806.5	64.0	-100.8	119.4	302.39
6,906.0	4.00	309.00	6,900.3	68.4	-106.0	126.1	302.82
7,001.0	3.80	309.80	6,895.1	72.5	-111.0	132.5	303.14
7,096.0	4.20	307.60	7,089.8	76.6	-116.2	139.1	303.40
7,191.0	4.30	305.60	7,184.6	80.8	-121.8	146.2	303.55
7,285.0	4.80	308.20	7,278.3	85.3	-127.8	153.6	303.72
7,380.0	4.60	308.60	7,373.0	90.1	-133.9	161.4	303.94
7,475.0	4.10	306.70	7,467.7	94.5	-139.6	168.6	304.10
7,570.0	3.90	300.00	7,562.4	98.2	-145.1	175.2	304.08
7,665.0	3.60	298.60	7,657.2	101.2	-150.5	181.4	303.92
7,760.0	4.00	295.90	7,752.0	104.1	-156.1	187.6	303.69
7,855.0	4.90	299.90	7,846.7	107.5	-162.6	195.0	303.48
7,949.0	5.40	304.80	7,940.4	112.1	-169.7	203.4	303.44



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
8,044.0	5.10	303.90	8,035.0	117.0	-176.9	212.1	303.48
8,139.0	5.20	313.90	8,129.6	122.3	-183.5	220.5	303.69
8,234.0	5.10	312.20	8,224.2	128.1	-189.7	228.9	304.03
8,327.0	4.70	309.40	8,316.9	133.3	-195.7	236.8	304.26
8,421.0	4.70	312.20	8,410.5	138.4	-201.6	244.5	304.47
8,516.0	4.40	310.30	8,505.2	143.3	-207.2	252.0	304.67
8,610.0	4.10	309.30	8,599.0	147.8	-212.6	258.9	304.81
8,705.0	4.10	306.70	8,693.7	152.0	-217.9	265.7	304.89
8,800.0	4.20	307.40	8,788.5	156.1	-223.4	272.6	304.94
8,894.0	3.80	308.80	8,882.3	160.2	-228.6	279.1	305.02
8,989.0	3.50	312.60	8,977.1	164.1	-233.2	285.1	305.14
9,084.0	3.30	310.70	9,071.9	167.8	-237.4	290.7	305.26
9,178.0	3.20	321.20	9,165.8	171.7	-241.1	295.9	305.45
9,273.0	3.10	325.60	9,260.6	175.8	-244.2	300.9	305.76
9,368.0	3.20	322.70	9,355.5	180.1	-247.2	305.9	306.07
9,463.0	3.30	320.60	9,450.3	184.3	-250.6	311.1	306.33
9,558.0	2.90	321.00	9,545.2	188.3	-253.8	316.0	306.56
9,652.0	2.90	322.00	9,639.1	192.0	-256.8	320.6	306.78
9,746.0	2.40	316.90	9,733.0	195.3	-259.6	324.9	306.95
9,841.0	2.20	311.20	9,827.9	198.0	-262.3	328.6	307.04
9,936.0	1.60	311.20	9,922.8	200.0	-264.7	331.8	307.08
10,031.0	1.70	288.30	10,017.8	201.3	-267.0	334.4	307.02
10,126.0	3.40	301.30	10,112.7	203.3	-270.8	338.6	306.89
10,221.0	3.40	303.40	10,207.5	206.3	-275.5	344.2	306.82
10,315.0	3.00	307.70	10,301.4	209.3	-279.8	349.4	306.80
10,410.0	2.90	307.00	10,396.3	212.3	-283.7	354.3	306.80
10,504.0	3.90	313.40	10,490.1	215.9	-287.9	359.9	306.86



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
10,598.0	3.70	316.90	10,583.9	220.3	-292.3	366.0	307.00
10,692.0	3.60	317.60	10,677.7	224.7	-296.4	371.9	307.17
10,787.0	3.30	313.60	10,772.5	228.8	-300.4	377.6	307.30
10,880.0	3.00	306.50	10,865.4	232.1	-304.3	382.7	307.34
10,974.0	3.20	303.30	10,959.2	235.0	-308.4	387.8	307.30
11,069.0	2.90	307.60	11,054.1	237.9	-312.6	392.8	307.28
11,163.0	2.80	304.50	11,148.0	240.7	-316.3	397.5	307.26
11,257.0	2.70	308.60	11,241.9	243.3	-320.0	402.0	307.26
11,352.0	2.60	321.30	11,336.8	246.4	-323.1	406.3	307.34
11,446.0	2.20	326.00	11,430.7	249.6	-325.4	410.1	307.49
11,462.0	2.20	325.00	11,446.7	250.1	-325.7	410.7	307.52
11,589.0	2.00	338.20	11,573.6	254.1	-328.0	414.9	307.77
11,620.3	2.03	341.36	11,604.9	255.2	-328.3	415.8	307.85
B.B. Salado Draw 9/16 W0AP Fed Com 3H							
11,683.0	2.10	347.40	11,667.5	257.3	-328.9	417.7	308.04
11,742.0	2.00	349.90	11,726.5	259.4	-329.4	419.3	308.22
11,776.0	2.00	346.10	11,760.5	260.8	-329.6	420.2	308.33
11,807.0	1.00	310.50	11,791.5	261.3	-329.9	420.9	308.37
11,839.0	1.70	205.00	11,823.5	261.0	-330.4	421.0	308.31
11,871.0	3.50	193.10	11,855.4	259.8	-330.8	420.5	308.13
11,902.0	4.10	189.80	11,886.4	257.6	-331.2	419.6	307.88
11,934.0	4.10	183.70	11,918.3	255.4	-331.5	418.4	307.61
11,965.0	6.50	178.60	11,949.1	252.5	-331.5	416.7	307.30
11,997.0	10.90	179.70	11,980.8	247.7	-331.4	413.7	306.77
12,028.0	16.40	181.20	12,010.9	240.4	-331.5	409.5	305.94
12,060.0	21.60	182.00	12,041.1	229.9	-331.8	403.7	304.72
12,091.0	27.40	185.30	12,069.3	217.1	-332.7	397.2	303.13



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
12,123.0	33.00	188.70	12,097.0	201.2	-334.7	390.5	301.01
12,155.0	37.40	191.00	12,123.1	183.0	-337.8	384.2	298.44
12,186.0	41.10	193.50	12,147.1	163.8	-342.0	379.2	295.60
12,218.0	48.00	195.50	12,169.9	142.1	-347.6	375.6	292.24
12,250.0	54.70	196.50	12,189.9	118.1	-354.5	373.7	288.43
12,281.0	59.70	197.70	12,206.7	93.2	-362.2	374.0	284.43
12,313.0	65.80	197.00	12,221.3	66.1	-370.7	376.5	280.11
12,344.0	72.80	196.70	12,232.3	38.4	-379.1	381.0	275.78
12,375.0	79.20	195.00	12,239.8	9.4	-387.3	387.4	271.39
12,407.0	84.30	194.30	12,244.4	-21.2	-395.3	395.9	266.93
12,438.0	84.60	194.60	12,247.4	-51.1	-403.0	406.2	262.78
12,470.0	85.00	194.50	12,250.3	-81.9	-411.0	419.1	258.73
12,502.0	89.00	194.40	12,251.9	-112.9	-419.0	433.9	254.92
12,565.0	91.00	194.60	12,251.9	-173.9	-434.7	468.2	248.20
12,659.0	88.90	195.90	12,252.0	-264.5	-459.5	530.2	240.07
12,753.0	88.30	196.00	12,254.3	-354.9	-485.3	601.2	233.82
12,848.0	90.40	196.90	12,255.4	-446.0	-512.2	679.1	228.95
12,943.0	92.80	198.30	12,252.7	-536.5	-540.9	761.8	225.23
13,038.0	90.40	196.80	12,250.1	-627.0	-569.5	847.1	222.25
13,132.0	89.60	195.10	12,250.1	-717.4	-595.4	932.3	219.69
13,227.0	89.50	193.90	12,250.8	-809.4	-619.1	1,019.0	217.41
13,321.0	92.80	195.10	12,248.9	-900.4	-642.7	1,106.2	215.52
13,415.0	87.00	190.80	12,249.1	-991.9	-663.7	1,193.5	213.79
13,510.0	88.00	189.90	12,253.3	-1,085.3	-680.8	1,281.1	212.10
13,605.0	91.50	189.40	12,253.7	-1,178.9	-696.7	1,369.4	210.58
13,700.0	91.70	188.70	12,251.0	-1,272.7	-711.6	1,458.1	209.21
13,795.0	90.00	183.40	12,249.6	-1,367.1	-721.6	1,545.9	207.83



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
13,891.0	88.80	182.80	12,250.6	-1,463.0	-726.8	1,633.6	206.42
13,986.0	90.80	183.90	12,250.9	-1,557.8	-732.4	1,721.4	205.18
14,081.0	89.60	185.10	12,250.6	-1,652.5	-739.8	1,810.6	204.12
14,175.0	88.80	184.00	12,251.9	-1,746.2	-747.3	1,899.4	203.17
14,269.0	88.80	182.50	12,253.9	-1,840.0	-752.6	1,988.0	202.25
14,364.0	88.20	179.20	12,256.4	-1,935.0	-754.0	2,076.7	201.29
14,459.0	90.20	178.70	12,257.7	-2,029.9	-752.3	2,164.8	200.33
14,516.0	96.10	182.30	12,254.6	-2,086.8	-752.8	2,218.4	199.84
14,547.0	96.40	182.20	12,251.2	-2,117.6	-754.0	2,247.8	199.60
14,576.0	97.76	180.21	12,247.6	-2,146.3	-754.6	2,275.1	199.37
Interp @ 12258.9 (Salado Draw 9/16 W0AP Fed Com 3H)							
14,579.0	97.90	180.00	12,247.2	-2,149.3	-754.6	2,278.0	199.35
14,610.0	100.00	178.80	12,242.4	-2,180.0	-754.3	2,306.8	199.09
14,642.0	99.80	176.50	12,236.9	-2,211.4	-753.0	2,336.1	198.80
14,674.0	97.60	172.20	12,232.0	-2,242.9	-749.9	2,364.9	198.49
14,705.0	94.00	169.90	12,228.9	-2,273.4	-745.1	2,392.4	198.15
14,737.0	91.40	168.10	12,227.4	-2,304.7	-739.0	2,420.3	197.78
14,768.0	90.60	168.00	12,226.9	-2,335.1	-732.6	2,447.3	197.42
14,800.0	89.50	168.20	12,226.8	-2,366.4	-726.0	2,475.2	197.05
14,831.0	88.40	168.80	12,227.4	-2,396.8	-719.8	2,502.5	196.72
14,863.0	88.50	172.10	12,228.3	-2,428.3	-714.5	2,531.2	196.40
14,895.0	90.00	176.20	12,228.7	-2,460.1	-711.2	2,560.9	196.12
14,926.0	89.90	178.60	12,228.7	-2,491.1	-709.8	2,590.2	195.90
14,958.0	90.40	178.60	12,228.6	-2,523.1	-709.0	2,620.8	195.70
14,989.0	90.40	178.20	12,228.4	-2,554.1	-708.2	2,650.4	195.50
15,021.0	88.70	178.40	12,228.7	-2,586.0	-707.2	2,681.0	195.29
15,052.0	88.00	178.10	12,229.6	-2,617.0	-706.3	2,710.6	195.10



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
15,084.0	88.00	178.10	12,230.7	-2,849.0	-705.2	2,741.2	194.91
15,115.0	88.10	178.40	12,231.7	-2,879.9	-704.3	2,770.9	194.72
15,147.0	88.60	180.00	12,232.7	-2,711.9	-703.8	2,801.8	194.55
15,179.0	88.60	180.10	12,233.4	-2,743.9	-703.8	2,832.8	194.39
15,210.0	88.60	180.10	12,234.2	-2,774.9	-703.9	2,862.8	194.23
15,242.0	88.80	180.60	12,234.9	-2,806.9	-704.1	2,893.9	194.08
15,273.0	89.00	180.70	12,235.5	-2,837.9	-704.4	2,924.0	193.94
15,336.0	89.00	180.30	12,236.8	-2,900.9	-705.0	2,985.3	193.66
15,388.0	88.10	180.10	12,237.4	-2,932.9	-705.1	3,016.4	193.52
15,399.0	87.70	179.80	12,238.6	-2,963.9	-705.1	3,046.6	193.38
15,431.0	88.00	178.20	12,239.8	-2,995.8	-704.5	3,077.5	193.23
15,462.0	87.30	177.00	12,241.0	-3,026.8	-703.2	3,107.4	193.08
15,494.0	86.80	176.80	12,242.7	-3,058.7	-701.5	3,138.1	192.92
15,525.0	88.20	178.30	12,244.0	-3,089.6	-700.2	3,168.0	192.77
15,557.0	88.80	179.30	12,244.9	-3,121.8	-699.5	3,199.0	192.63
15,588.0	88.80	179.80	12,245.5	-3,152.6	-699.3	3,229.2	192.51
15,620.0	89.50	179.60	12,246.0	-3,184.6	-699.1	3,260.4	192.38
15,683.0	90.00	180.10	12,246.3	-3,247.6	-698.9	3,321.9	192.15
15,777.0	90.20	178.40	12,246.1	-3,341.6	-697.7	3,413.6	191.79
15,872.0	89.20	178.70	12,248.6	-3,436.5	-695.3	3,506.2	191.44
15,966.0	90.20	178.40	12,247.1	-3,530.5	-692.9	3,597.9	191.10
16,061.0	90.50	177.90	12,246.5	-3,625.5	-689.8	3,690.5	190.77
16,155.0	90.90	178.70	12,245.4	-3,719.4	-687.1	3,782.3	190.47
16,250.0	91.50	181.20	12,243.4	-3,814.4	-687.0	3,875.7	190.21
16,344.0	89.40	178.50	12,242.6	-3,908.4	-686.7	3,968.2	189.97
16,438.0	90.20	178.60	12,243.0	-4,002.3	-684.3	4,060.4	189.70
16,533.0	90.60	179.20	12,242.3	-4,097.3	-682.5	4,153.8	189.46



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
16,628.0	89.80	178.60	12,242.0	-4,192.3	-680.7	4,247.2	189.22
16,722.0	90.10	180.50	12,242.1	-4,286.3	-680.0	4,339.9	189.01
16,816.0	90.50	180.80	12,241.6	-4,380.3	-681.0	4,432.9	188.84
16,911.0	90.80	180.60	12,240.5	-4,475.3	-682.2	4,527.0	188.67
17,006.0	89.40	180.70	12,240.3	-4,570.3	-683.3	4,621.0	188.50
17,100.0	89.50	180.20	12,241.2	-4,664.2	-684.0	4,714.1	188.34
17,195.0	90.40	181.00	12,241.3	-4,759.2	-685.0	4,808.3	188.19
17,289.0	90.20	180.30	12,240.8	-4,853.2	-686.1	4,901.5	188.05
17,384.0	89.90	180.00	12,240.7	-4,948.2	-686.3	4,995.6	187.90
17,478.0	89.80	180.40	12,241.0	-5,042.2	-686.6	5,088.8	187.75
17,574.0	87.70	179.90	12,243.1	-5,138.2	-686.9	5,183.9	187.61
17,672.0	90.30	179.70	12,244.8	-5,236.2	-686.6	5,281.0	187.47
17,767.0	89.40	180.20	12,245.0	-5,331.2	-686.5	5,375.2	187.34
17,861.0	90.10	181.00	12,245.4	-5,425.2	-687.5	5,468.6	187.22
17,956.0	90.00	181.50	12,245.4	-5,520.1	-689.5	5,563.0	187.12
18,002.1	89.70	180.77	12,245.5	-5,566.3	-690.4	5,608.9	187.07
Interp @ 12245.6 (Salado Draw 9/16 W0AP Fed Com 3H)							
18,063.0	89.30	179.80	12,246.0	-5,627.1	-690.7	5,669.4	187.00
18,158.0	89.30	180.50	12,247.2	-5,722.1	-691.0	5,763.7	186.89
18,252.0	88.40	176.40	12,249.1	-5,816.1	-688.4	5,856.7	186.75
18,347.0	91.60	181.50	12,249.1	-5,911.0	-686.7	5,950.7	186.63
18,379.0	90.60	180.90	12,248.4	-5,943.0	-687.4	5,982.6	186.60
18,410.0	90.20	180.90	12,248.2	-5,974.0	-687.9	6,013.4	186.57
18,442.0	90.60	181.10	12,248.0	-6,006.0	-688.4	6,045.3	186.54
18,474.0	91.30	183.60	12,247.5	-6,037.9	-689.7	6,077.2	186.52
18,505.0	90.50	184.90	12,247.0	-6,068.8	-692.0	6,108.2	186.51
18,537.0	89.10	184.80	12,247.1	-6,100.7	-694.7	6,140.2	186.50



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
18,568.0	89.80	186.20	12,247.4	-8,131.6	-697.7	6,171.2	186.49
18,600.0	88.90	187.10	12,247.8	-8,163.4	-701.4	6,203.1	186.49
18,632.0	89.30	187.90	12,248.3	-8,195.1	-705.6	6,235.1	186.50
18,663.0	89.90	188.90	12,248.5	-8,225.8	-710.1	6,266.1	186.51
18,695.0	89.80	187.50	12,248.6	-8,257.4	-714.7	6,298.1	186.52
18,726.0	89.90	188.40	12,248.6	-8,288.1	-719.0	6,329.1	186.52
18,758.0	91.10	189.60	12,248.4	-8,319.7	-724.0	6,361.1	186.54
18,790.0	92.30	189.30	12,247.4	-8,351.3	-729.2	6,393.0	186.55
18,821.0	90.10	188.00	12,246.8	-8,381.9	-733.9	6,424.0	186.56
18,853.0	90.30	189.20	12,246.7	-8,413.6	-738.7	6,456.0	186.57
18,885.0	90.50	186.40	12,246.4	-8,445.3	-743.0	6,487.9	186.58
18,916.0	88.80	187.80	12,246.6	-8,476.0	-746.8	6,518.9	186.58
18,948.0	87.10	188.50	12,247.8	-8,507.7	-751.4	6,550.9	186.59
18,979.0	84.60	185.60	12,250.0	-8,538.4	-755.2	6,581.8	186.59
19,011.0	83.50	181.70	12,253.3	-8,570.1	-757.2	6,613.6	186.57
19,043.0	84.40	177.90	12,256.7	-8,601.9	-757.1	6,645.2	186.54
19,075.0	86.00	176.90	12,259.4	-8,633.8	-755.6	6,676.7	186.50
19,106.0	90.20	177.80	12,260.4	-8,664.7	-754.2	6,707.3	186.46
19,138.0	91.30	178.10	12,260.0	-8,696.7	-753.1	6,738.9	186.42
19,169.0	91.90	178.50	12,259.1	-8,727.7	-752.1	6,769.6	186.38
19,201.0	90.80	177.70	12,258.4	-8,759.6	-751.1	6,801.2	186.34
19,232.0	88.00	177.00	12,258.7	-8,790.6	-749.7	6,831.9	186.30
19,264.0	88.10	177.90	12,259.8	-8,822.6	-748.2	6,863.5	186.26
19,296.0	88.80	179.10	12,260.6	-8,854.5	-747.4	6,895.2	186.22
19,327.0	87.00	178.50	12,261.8	-8,885.5	-748.7	6,925.9	186.19
19,359.0	87.40	178.90	12,263.3	-8,917.5	-746.0	6,957.6	186.16
19,391.0	90.70	180.10	12,263.9	-8,949.4	-745.7	6,989.3	186.12



Microsoft
MWD Report



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 9/16-26S-33E Salado Draw 9/16 W0AP F
Well: Salado Draw 9/16 W0AP Fed Com 3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 9/16 W0AP Fed Com 3H
TVD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
MD Reference: 3333 + 27 @ 3360.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 (°)
19,423.0	90.90	180.40	12,263.4	-6,981.4	-745.9	7,021.2	186.10
19,454.0	88.20	179.60	12,263.7	-7,012.4	-745.9	7,052.0	186.07
19,486.0	88.40	179.60	12,264.6	-7,044.4	-745.7	7,083.8	186.04
19,518.0	89.30	180.40	12,265.3	-7,076.4	-745.7	7,115.6	186.02
19,549.0	89.40	180.60	12,265.6	-7,107.4	-745.9	7,146.4	185.99
19,581.0	89.20	180.50	12,266.0	-7,139.4	-746.2	7,178.3	185.97
19,613.0	91.10	181.30	12,265.9	-7,171.4	-746.7	7,210.2	185.94
19,644.0	90.50	181.30	12,265.5	-7,202.4	-747.4	7,241.1	185.92
19,676.0	87.30	179.60	12,266.1	-7,234.4	-747.7	7,272.9	185.90
19,707.0	86.50	179.10	12,267.8	-7,265.3	-747.3	7,303.7	185.87
19,739.0	89.20	179.50	12,269.0	-7,297.3	-746.9	7,335.4	185.84
19,771.0	90.20	180.40	12,269.1	-7,329.3	-746.9	7,367.3	185.82
19,802.0	90.20	180.40	12,269.0	-7,360.3	-747.1	7,398.1	185.80
19,834.0	90.50	179.90	12,268.8	-7,392.3	-747.2	7,430.0	185.77
19,866.0	88.60	179.80	12,269.1	-7,424.3	-747.1	7,461.8	185.75
19,897.0	88.40	180.10	12,269.9	-7,455.3	-747.1	7,492.6	185.72
19,929.0	87.90	179.60	12,270.9	-7,487.3	-747.0	7,524.4	185.70
19,960.0	88.70	178.60	12,271.9	-7,518.3	-746.5	7,555.2	185.67
20,005.0	88.50	177.60	12,273.0	-7,563.2	-745.0	7,599.8	185.63
20,109.0	88.50	177.60	12,275.7	-7,667.1	-740.7	7,702.8	185.52

20109.0' MD Projected to Bit - New SHL Salado Draw 9/16 W0AP Fed Com 3H - PBHL Salado Draw 9/16 W0AP Fed Com 3H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
20,109.0	12,275.7	-7,667.1	-740.7	20109.0' MD Projected to Bit