



HOBBS OCD
JAN 16 2018
RECEIVED

July 28, 2017

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 10 WIPA Federal #002H
Wolfcamp A Shale (W1)
Lea County, New Mexico
API# 30-025-42837

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>
Bill Wallace	Original Hole	1,044ft. to 17,656ft.	06-11-17 to 07-10-17	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.


Todd 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\Salado Draw 10 WIPA Federal #2H\M171043

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



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Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of June 11, 2017, through July 10, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,044 feet to a depth of 17,656 feet; 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 10 W1PA Federal #002H well, API # **30-025-42837** 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.

Todd Estes

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**HOBBS OCD****JAN 16 2018****RECEIVED****Microsoft**
MWD Surveys

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 15-10-26S-33E Salado Draw 10 W1PA F
Well: Salado Draw 10 W1PA Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 10 W1PA Fed Com #2H
TVD Reference: 3328 + 27 @ 3355.0usft (Patterson 242)
MD Reference: 3328 + 27 @ 3355.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Lea County N.M.		
Map System:	US State Plane 1927 (Exact solution)		System Datum: Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com		
Site Position:		Northing: 382,758.00 usft	Latitude: 32° 2' 59.691 N
From: Map		Easting: 741,804.00 usft	Longitude: 103° 33' 10.421 W
Position Uncertainty: 0.0 usft		Slot Radius: 13-3/16 "	Grid Convergence: 0.41 °

Well	Salado Draw 10 W1PA Fed Com #2H		
Well Position	+N/-S 0.0 usft	Northing: 382,758.00 usft	Latitude: 32° 2' 59.691 N
	+E/-W 0.0 usft	Easting: 741,804.00 usft	Longitude: 103° 33' 10.421 W
Position Uncertainty 0.0 usft		Wellhead Elevation: 3,355.0 usft	Ground Level: 3,328.0 usft

Wellbore	Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	6/5/2017	6.94	59.91	47,840.60739909	

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	102.34	



Microsoft
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Survey Program Date 7/11/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
78.0	912.0	Rig MWD Teledrift Survey #1 (Original Hole)	MWD	MWD v3: standard declination
1,044.0	17,710.0	MWD Survey (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 (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
78.0	0.90	119.00	78.0	-0.3	0.5	0.6	119.00
197.0	0.80	129.00	197.0	-1.3	2.0	2.4	122.49
317.0	1.10	150.00	317.0	-2.8	3.2	4.3	130.93
438.0	0.70	137.00	438.0	-4.3	4.3	6.1	135.22
533.0	1.20	106.00	532.9	-5.0	5.7	7.6	131.69
722.0	1.40	106.00	721.9	-6.2	9.8	11.6	122.46
912.0	2.00	86.00	911.8	-6.6	15.3	16.7	113.41 Tie-In
912' MD Teledrift							
1,044.0	1.90	101.60	1,043.7	-6.9	19.8	20.9	109.28
1,234.0	2.10	98.30	1,233.6	-8.0	26.3	27.5	107.02
1,424.0	2.00	99.50	1,423.5	-9.1	33.0	34.2	105.41
1,615.0	1.80	106.00	1,614.4	-10.5	39.2	40.6	104.97
1,805.0	1.70	91.30	1,804.3	-11.4	44.9	46.3	104.21
1,992.0	1.30	74.90	1,991.2	-10.9	49.7	50.9	102.34
2,179.0	1.30	69.90	2,178.2	-9.6	53.7	54.6	100.12
2,366.0	1.00	59.00	2,365.2	-8.0	57.1	57.7	97.99
2,553.0	1.50	166.20	2,552.1	-9.6	59.1	59.9	99.19
2,740.0	1.90	173.30	2,739.0	-15.0	60.0	61.9	104.04
2,927.0	2.20	172.30	2,925.9	-21.6	60.9	64.6	109.57
3,114.0	1.30	184.30	3,112.8	-27.3	61.2	67.0	114.05



Microsoft
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
3,302.0	1.50	170.10	3,300.8	-31.9	61.5	69.2	117.40
3,489.0	1.70	144.40	3,487.7	-36.5	63.5	73.3	119.91
3,676.0	1.20	119.60	3,674.7	-39.8	66.8	77.8	120.75
3,863.0	2.30	101.60	3,861.6	-41.5	72.2	83.3	119.88
4,050.0	1.30	136.90	4,048.5	-43.8	77.3	88.9	119.52
4,237.0	0.70	184.90	4,235.4	-46.5	78.7	91.4	120.57
4,423.0	1.10	141.30	4,421.4	-49.0	79.7	93.6	121.58
4,610.0	1.10	130.00	4,608.4	-51.6	82.2	97.0	122.09
4,797.0	1.80	127.70	4,795.3	-54.5	85.9	101.7	122.40
4,922.0	1.00	111.00	4,920.3	-56.1	88.5	104.8	122.38
4,988.0	0.70	95.10	4,986.3	-56.3	89.4	105.7	122.22
5,176.0	0.20	34.40	5,174.3	-56.2	90.7	106.7	121.76
5,364.0	2.20	110.40	5,362.2	-57.2	94.3	110.3	121.22
5,551.0	1.20	119.50	5,549.1	-59.4	99.4	115.8	120.86
5,738.0	1.10	109.80	5,736.1	-60.9	102.8	119.5	120.67
5,925.0	1.10	135.90	5,923.1	-62.8	105.7	123.0	120.73
6,112.0	1.00	136.10	6,110.0	-65.3	108.1	126.3	121.14
6,299.0	0.60	143.10	6,297.0	-67.3	109.8	128.8	121.49
6,486.0	0.60	62.70	6,484.0	-67.6	111.3	130.2	121.28
6,672.0	2.20	88.90	6,670.0	-67.1	115.7	133.7	120.11
6,859.0	1.70	126.30	6,856.9	-68.7	121.5	139.6	119.46
7,046.0	1.60	116.90	7,043.8	-71.5	126.1	144.9	119.55
7,234.0	1.40	110.60	7,231.7	-73.5	130.6	149.8	119.37
7,421.0	1.30	111.10	7,418.7	-75.0	134.7	154.2	119.12
7,608.0	1.20	129.20	7,605.6	-77.0	138.2	158.2	119.14
7,795.0	0.90	138.20	7,792.6	-79.4	140.7	161.5	119.43
7,981.0	1.30	84.00	7,978.6	-80.2	143.8	164.6	119.17



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8,168.0	1.30	53.50	8,165.5	-78.8	147.6	167.3	118.09
8,356.0	1.10	58.30	8,353.5	-76.5	150.8	169.1	116.91
8,543.0	0.80	55.30	8,540.4	-74.9	153.4	170.7	116.01
8,730.0	1.60	73.30	8,727.4	-73.4	157.0	173.3	115.05
8,917.0	1.10	87.50	8,914.4	-72.5	161.3	176.9	114.21
9,103.0	0.60	103.00	9,100.3	-72.7	164.0	179.4	113.90
9,291.0	0.90	52.40	9,288.3	-72.0	166.2	181.1	113.43
9,478.0	0.80	41.40	9,475.3	-70.1	168.2	182.2	112.63
9,665.0	2.00	109.90	9,662.2	-70.3	172.1	185.9	112.20
9,852.0	1.40	115.20	9,849.2	-72.3	177.2	191.4	112.20
10,003.2	1.44	142.66	10,000.4	-74.6	180.1	194.9	112.51
BB							
10,039.0	1.50	148.50	10,036.1	-75.4	180.6	195.7	112.66
10,226.0	1.00	195.80	10,223.1	-79.1	181.4	197.9	113.54
10,413.0	0.60	238.00	10,410.0	-81.1	180.2	197.6	114.25
10,600.0	1.60	331.60	10,597.0	-79.4	178.1	195.0	114.02
10,787.0	1.50	13.00	10,784.0	-74.7	177.4	192.5	112.83
10,975.0	1.50	12.70	10,971.9	-69.9	178.5	191.7	111.38
11,161.0	1.70	21.80	11,157.8	-64.9	180.0	191.4	109.84
11,349.0	0.70	132.70	11,345.8	-63.1	181.9	192.6	109.14
11,536.0	2.00	234.20	11,532.8	-65.8	180.1	191.8	110.07
11,723.0	0.90	203.50	11,719.7	-69.1	176.9	189.9	111.33
11,865.0	2.90	158.10	11,861.6	-73.4	177.8	192.3	112.44
12,052.0	0.20	234.50	12,048.5	-78.0	179.3	195.5	113.52
12,084.0	0.40	315.10	12,080.5	-78.0	179.2	195.4	113.52
12,115.0	2.80	352.30	12,111.5	-77.1	179.0	194.9	113.32
12,146.0	6.60	357.60	12,142.4	-74.6	178.8	193.7	112.65



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12,177.0	10.10	0.20	12,173.1	-70.1	178.7	192.0	111.42
12,208.0	12.60	2.00	12,203.5	-64.0	178.9	190.0	109.69
12,240.0	16.00	2.80	12,234.5	-56.1	179.2	187.8	107.39
12,271.0	19.30	5.50	12,264.0	-46.7	179.9	185.9	104.57
12,302.0	21.90	3.50	12,293.0	-35.9	180.7	184.3	101.23
12,333.0	24.70	1.00	12,321.5	-23.6	181.2	182.7	97.43
12,364.0	27.60	0.70	12,349.3	-10.0	181.4	181.7	93.14
12,396.0	30.90	0.80	12,377.2	5.7	181.6	181.7	88.21
12,427.0	34.10	0.30	12,403.4	22.3	181.8	183.1	83.00
12,458.0	36.90	359.80	12,428.6	40.3	181.8	186.2	77.49
12,489.0	38.60	358.00	12,453.1	59.3	181.4	190.9	71.90
12,520.0	40.80	357.30	12,477.0	79.1	180.6	197.2	66.35
12,552.0	43.90	358.40	12,500.6	100.6	179.8	206.0	60.77
12,583.0	46.30	0.50	12,522.5	122.6	179.6	217.4	55.69
12,614.0	48.70	1.50	12,543.4	145.4	180.0	231.4	51.07
12,645.0	52.10	0.80	12,563.2	169.3	180.5	247.5	46.83
12,676.0	56.00	359.50	12,581.4	194.4	180.5	265.3	42.88
12,707.0	60.00	359.50	12,597.8	220.7	180.3	285.0	39.25
12,739.0	63.00	359.80	12,613.1	248.8	180.1	307.2	35.91
12,770.0	66.90	359.80	12,626.2	276.9	180.0	330.3	33.03
12,795.0	70.30	359.00	12,635.3	300.1	179.8	349.9	30.92
12,858.0	77.90	356.10	12,652.6	360.6	177.2	401.8	26.17
12,889.0	79.20	355.40	12,658.7	390.9	174.9	428.3	24.11
12,977.0	81.94	355.02	12,673.1	477.4	167.7	506.0	19.35
LP Salado Draw 10 W1PA Fed Com 2H							
12,982.0	82.10	355.00	12,673.8	482.3	167.2	510.5	19.12
13,076.0	83.50	354.80	12,685.6	575.2	159.0	596.8	15.45



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13,169.0	87.70	354.60	12,692.8	667.5	150.4	684.3	12.70
13,262.0	91.00	354.70	12,693.8	760.1	141.7	773.2	10.56
13,356.0	90.60	353.70	12,692.5	853.6	132.2	863.8	8.80
13,448.0	91.50	354.70	12,690.8	945.1	122.9	953.1	7.41
13,542.0	92.10	354.70	12,687.9	1,038.7	114.2	1,045.0	6.28
13,636.0	90.10	354.80	12,686.1	1,132.3	105.6	1,137.2	5.33
13,729.0	89.60	354.00	12,686.3	1,224.8	96.6	1,228.6	4.51
13,823.0	89.90	353.20	12,686.7	1,318.2	86.1	1,321.1	3.74
13,917.0	90.30	353.30	12,686.5	1,411.6	75.0	1,413.6	3.04
14,010.0	91.30	354.00	12,685.2	1,504.0	64.8	1,505.4	2.47
14,105.0	90.10	352.20	12,684.1	1,598.3	53.3	1,599.2	1.91
14,199.0	91.60	358.10	12,682.7	1,691.9	45.4	1,692.5	1.54
14,292.0	90.50	1.30	12,681.0	1,784.9	44.9	1,785.5	1.44
14,386.0	90.30	1.70	12,680.3	1,878.9	47.4	1,879.5	1.44
14,479.0	90.20	1.90	12,679.9	1,971.8	50.3	1,972.4	1.46
14,573.0	89.30	1.00	12,680.3	2,065.8	52.7	2,066.4	1.46
14,666.0	87.40	1.10	12,683.0	2,158.7	54.4	2,159.4	1.44
14,760.0	86.80	1.10	12,687.8	2,252.6	56.2	2,253.3	1.43
14,853.0	90.60	4.10	12,689.9	2,345.4	60.4	2,346.2	1.48
14,946.0	91.30	5.60	12,688.3	2,438.1	68.3	2,439.0	1.60
15,040.0	90.70	5.60	12,686.7	2,531.6	77.4	2,532.8	1.75
15,133.0	89.40	5.60	12,686.6	2,624.2	86.5	2,625.6	1.89
15,227.0	87.10	3.60	12,689.5	2,717.8	94.0	2,719.4	1.98
15,321.0	85.50	3.30	12,695.6	2,811.4	99.7	2,813.2	2.03
15,414.0	87.90	0.30	12,700.9	2,904.2	102.6	2,906.0	2.02
15,508.0	92.40	0.00	12,700.7	2,998.2	102.9	3,000.0	1.96
15,601.0	91.10	358.90	12,697.8	3,091.2	102.0	3,092.8	1.89



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15,695.0	92.60	358.30	12,694.8	3,185.1	99.7	3,186.6	1.79
15,788.0	91.00	357.60	12,691.9	3,278.0	96.3	3,279.4	1.68
15,882.0	92.40	359.00	12,689.1	3,371.9	93.5	3,373.2	1.59
15,975.0	93.00	359.10	12,684.7	3,464.8	92.0	3,466.0	1.52
16,069.0	88.40	359.10	12,683.5	3,558.7	90.5	3,559.9	1.46
16,162.0	90.90	0.20	12,684.1	3,651.7	90.0	3,652.8	1.41
16,255.0	95.10	3.30	12,679.2	3,744.5	92.8	3,745.6	1.42
16,349.0	93.50	4.10	12,672.2	3,838.0	98.8	3,839.3	1.48
16,442.0	92.60	5.20	12,667.2	3,930.6	106.4	3,932.0	1.55
16,535.0	90.30	4.10	12,664.9	4,023.3	113.9	4,024.9	1.62
16,628.0	89.70	4.10	12,664.9	4,116.0	120.6	4,117.8	1.68
16,722.0	89.20	3.30	12,665.8	4,209.8	126.6	4,211.7	1.72
16,816.0	90.20	3.50	12,666.3	4,303.6	132.2	4,305.7	1.76
16,909.0	90.90	3.30	12,665.4	4,396.5	137.7	4,398.6	1.79
17,003.0	90.50	3.20	12,664.2	4,490.3	143.0	4,492.6	1.82
17,096.0	91.30	2.80	12,662.8	4,583.2	147.9	4,585.6	1.85
17,190.0	88.40	3.00	12,663.0	4,677.0	152.7	4,679.5	1.87
17,283.0	88.10	3.30	12,665.9	4,769.9	157.8	4,772.5	1.89
17,377.0	88.70	1.60	12,668.5	4,863.7	161.8	4,866.4	1.91
17,470.0	89.50	359.80	12,670.0	4,956.7	162.9	4,959.4	1.88
17,564.0	92.80	359.20	12,668.1	5,050.7	162.1	5,053.3	1.84
17,656.0	96.00	359.00	12,661.0	5,142.4	160.7	5,144.9	1.79
17,710.0	96.00	359.00	12,655.4	5,196.1	159.7	5,198.5	1.76

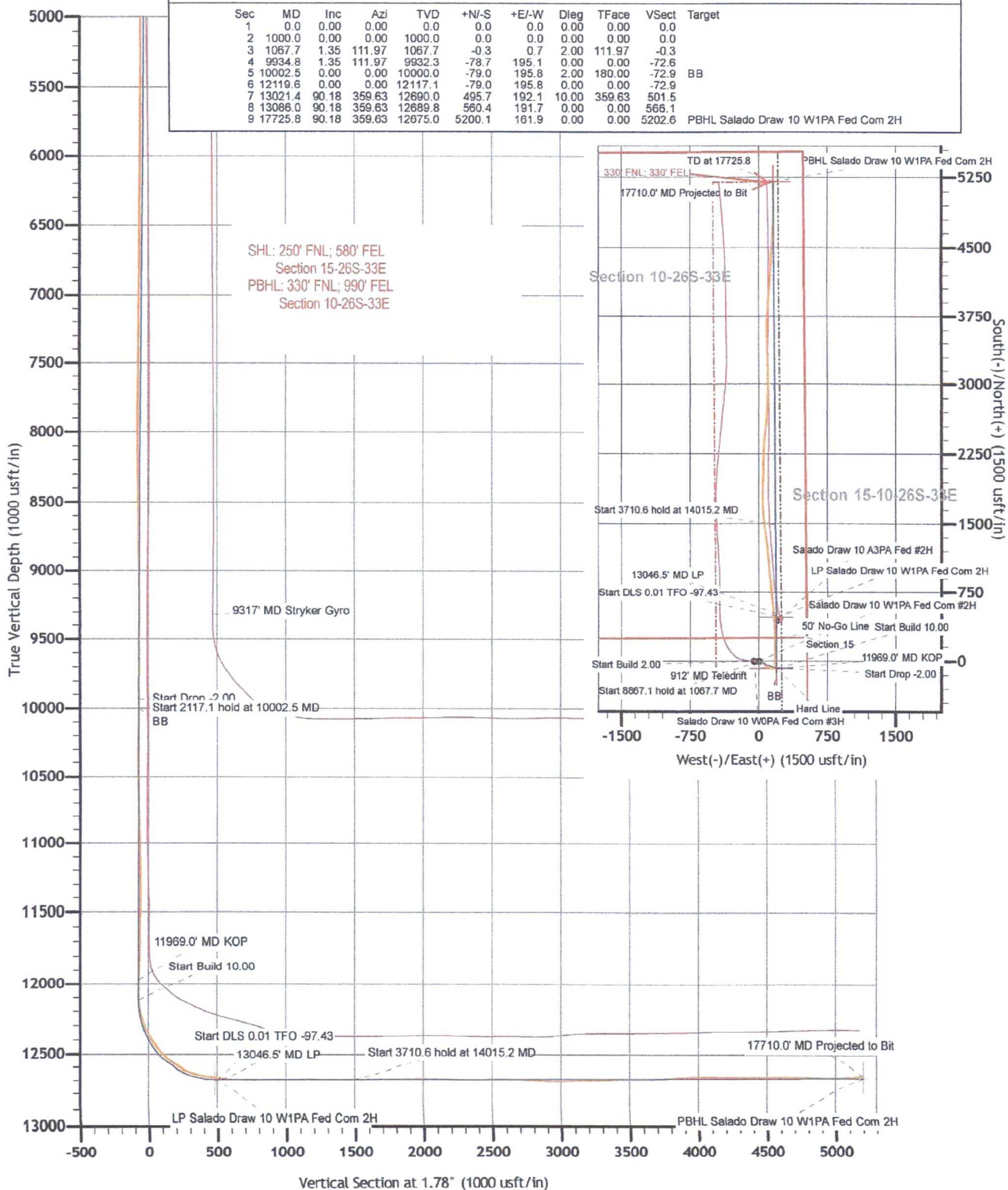
17710.0' MD Projected to Bit - PBHL Salado Draw 10 W1PA Fed Com 2H

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.52°

GEODETTIC ZONE: New Mexico East 3001						
3328 + 27 @ 3355.0usft (Patterson 242)						
GROUND ELEVATION: 3328.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	382758.00	741804.00	32° 2' 59.691 N	103° 33' 10.421 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	IVD	+N/S	+E/-W	Dleg	IFace	VSEct	Target
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	1000.0	0.0	0.0	1000.0	0.0	0.0	0.0	0.0	0.0	
3	1067.7	1.35	111.97	1067.7	-0.3	0.7	2.00	111.97	-0.3	
4	9934.8	1.35	111.97	9932.3	-78.7	195.1	0.0	0.0	-72.6	
5	10002.5	0.0	0.0	10000.0	-79.0	195.8	2.0	180.0	-72.9	BB
6	12119.6	0.0	0.0	12117.1	-79.0	195.8	0.0	0.0	-72.9	
7	13021.4	90.18	359.63	12690.0	495.7	192.1	10.0	359.63	501.5	
8	13068.0	90.18	359.63	12689.8	560.4	191.7	0.0	0.0	566.1	
9	17725.8	90.18	359.63	12675.0	5200.1	161.9	0.0	5202.6		PBHL Salado Draw 10 W1PA Fed Com 2H



JAN 16 2010



COMPANY: Mewbourne Oil Company
 WELL: Salado Draw 10 W1PA Fed Com #2H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 242

RECEIVED



OFFICE: 936.582.7296

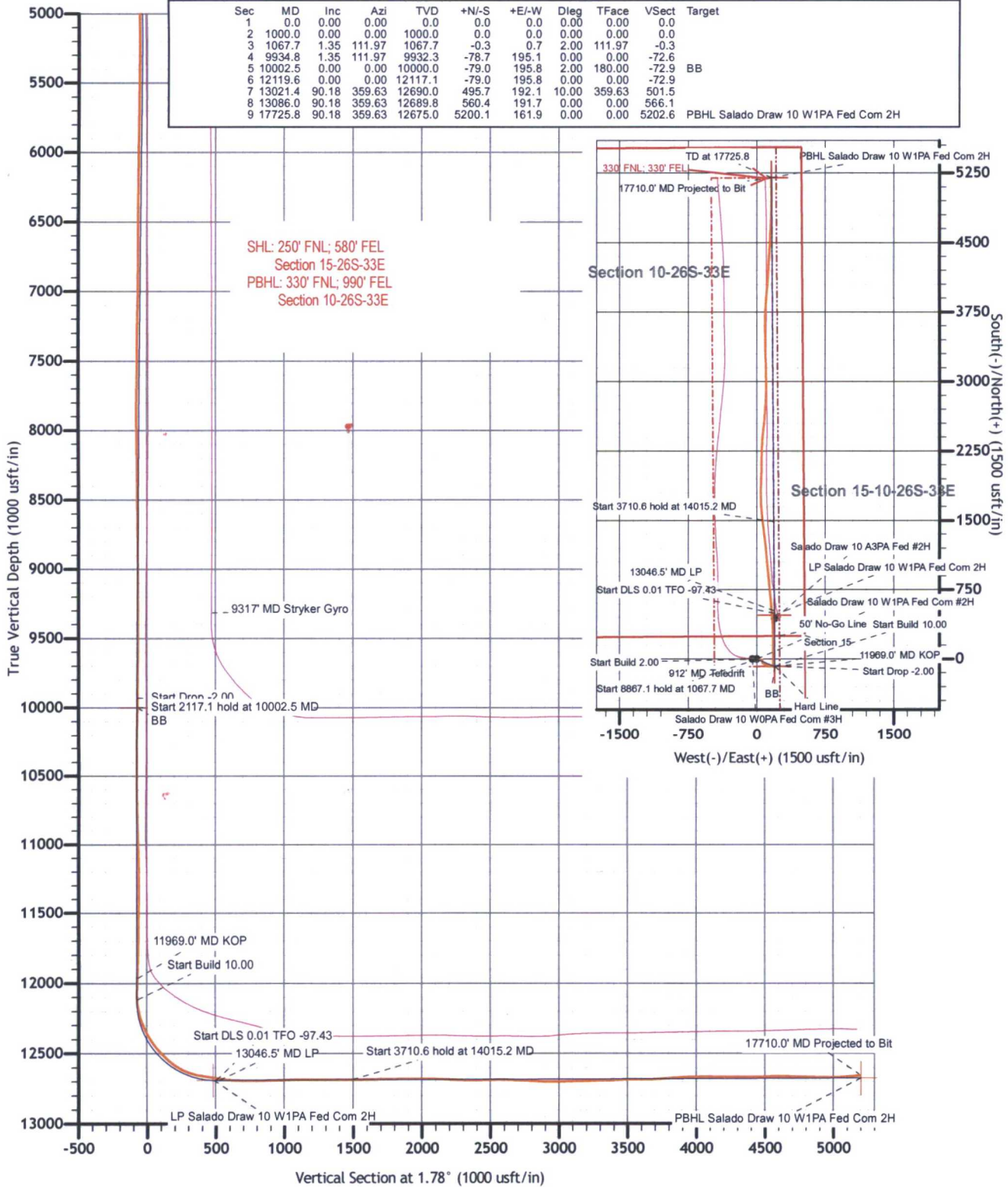
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.52°

GEODETTIC ZONE: New Mexico East 3001
 3328 + 27 @ 3355.0usft (Patterson 242)
 GROUND ELEVATION: 3328.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	382758.00	741804.00	32° 2' 59.691 N	103° 33' 10.421 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1067.7	1.35	111.97	1067.7	-0.3	0.7	2.00	111.97	-0.3	
4	9934.8	1.35	111.97	9932.3	-78.7	195.1	0.00	0.00	-72.6	
5	10002.5	0.00	0.00	10000.0	-79.0	195.8	2.00	180.00	-72.9	BB
6	12119.6	0.00	0.00	12117.1	-79.0	195.8	0.00	0.00	-72.9	
7	13021.4	90.18	359.63	12690.0	495.7	192.1	10.00	359.63	501.5	
8	13086.0	90.18	359.63	12689.8	560.4	191.7	0.00	0.00	566.1	
9	17725.8	90.18	359.63	12675.0	5200.1	161.9	0.00	0.00	5202.6	PBHL Salado Draw 10 W1PA Fed Com 2H





HOBBS OCD

JAN 16 2018

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Mewbourne Oil Company

Lea County N.M.

Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com

Salado Draw 10 W1PA Fed Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

11 July, 2017



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W1PA Fed Com #2H
Project:	Lea County N.M.	TVD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com	MD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Well:	Salado Draw 10 W1PA 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.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com		
Site Position:		Northing:	382,758.00 usft
From:	Map	Easting:	741,804.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 59.691 N
		Longitude:	103° 33' 10.421 W
		Grid Convergence:	0.41 °

Well	Salado Draw 10 W1PA Fed Com #2H		
Well Position	+N/-S	0.0 usft	Northing: 382,758.00 usft
	+E/-W	0.0 usft	Easting: 741,804.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,355.0 usft
		Latitude:	32° 2' 59.691 N
		Longitude:	103° 33' 10.421 W
		Ground Level:	3,328.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/5/2017	6.94	59.91	47,840.60739909

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	102.34

Survey Program		Date	7/11/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
78.0	912.0	Rig MWD Teledrift Survey #1 (Original Hol	MWD	MWD v3:standard declination	
1,044.0	17,710.0	MWD Survey (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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
78.0	0.90	119.00	78.0	-0.3	0.5	0.6	1.15	1.15	0.00
197.0	0.80	129.00	197.0	-1.3	2.0	2.2	0.15	-0.08	8.40
317.0	1.10	150.00	317.0	-2.8	3.2	3.7	0.38	0.25	17.50
438.0	0.70	137.00	438.0	-4.3	4.3	5.1	0.37	-0.33	-10.74
533.0	1.20	106.00	532.9	-5.0	5.7	6.6	0.74	0.53	-32.63
722.0	1.40	106.00	721.9	-6.2	9.8	10.9	0.11	0.11	0.00
912.0	2.00	86.00	911.8	-6.6	15.3	16.4	0.44	0.32	-10.53
912' MD Teledrift									

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W1PA Fed Com #2H
Project:	Lea County N.M.	TVD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com	MD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Well:	Salado Draw 10 W1PA 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)
1,044.0	1.90	101.60	1,043.7	-6.9	19.8	20.8	0.41	-0.08	11.82
1,234.0	2.10	98.30	1,233.6	-8.0	26.3	27.4	0.12	0.11	-1.74
1,424.0	2.00	99.50	1,423.5	-9.1	33.0	34.2	0.06	-0.05	0.63
1,615.0	1.80	106.00	1,614.4	-10.5	39.2	40.5	0.15	-0.10	3.40
1,805.0	1.70	91.30	1,804.3	-11.4	44.9	46.3	0.24	-0.05	-7.74
1,992.0	1.30	74.90	1,991.2	-10.9	49.7	50.9	0.31	-0.21	-8.77
2,179.0	1.30	69.90	2,178.2	-9.6	53.7	54.5	0.06	0.00	-2.67
2,366.0	1.00	59.00	2,365.2	-8.0	57.1	57.5	0.20	-0.16	-5.83
2,553.0	1.50	166.20	2,552.1	-9.6	59.1	59.8	1.09	0.27	57.33
2,740.0	1.90	173.30	2,739.0	-15.0	60.0	61.9	0.24	0.21	3.80
2,927.0	2.20	172.30	2,925.9	-21.6	60.9	64.1	0.16	0.16	-0.53
3,114.0	1.30	184.30	3,112.8	-27.3	61.2	65.6	0.52	-0.48	6.42
3,302.0	1.50	170.10	3,300.8	-31.9	61.5	66.9	0.21	0.11	-7.55
3,489.0	1.70	144.40	3,487.7	-36.5	63.5	69.9	0.39	0.11	-13.74
3,676.0	1.20	119.60	3,674.7	-39.8	66.8	73.8	0.42	-0.27	-13.26
3,863.0	2.30	101.60	3,861.6	-41.5	72.2	79.4	0.65	0.59	-9.63
4,050.0	1.30	136.90	4,048.5	-43.8	77.3	84.9	0.77	-0.53	18.88
4,237.0	0.70	184.90	4,235.4	-46.5	78.7	86.8	0.52	-0.32	25.67
4,423.0	1.10	141.30	4,421.4	-49.0	79.7	88.3	0.41	0.22	-23.44
4,610.0	1.10	130.00	4,608.4	-51.6	82.2	91.3	0.12	0.00	-6.04
4,797.0	1.80	127.70	4,795.3	-54.5	85.9	95.6	0.38	0.37	-1.23
4,922.0	1.00	111.00	4,920.3	-56.1	88.5	98.4	0.71	-0.64	-13.36
4,988.0	0.70	95.10	4,986.3	-56.3	89.4	99.4	0.57	-0.45	-24.09
5,176.0	0.20	34.40	5,174.3	-56.2	90.7	100.6	0.33	-0.27	-32.29
5,364.0	2.20	110.40	5,362.2	-57.2	94.3	104.3	1.15	1.06	40.43
5,551.0	1.20	119.50	5,549.1	-59.4	99.4	109.8	0.55	-0.53	4.87
5,738.0	1.10	109.80	5,736.1	-60.9	102.8	113.4	0.12	-0.05	-5.19
5,925.0	1.10	135.90	5,923.1	-62.8	105.7	116.7	0.27	0.00	13.96
6,112.0	1.00	136.10	6,110.0	-65.3	108.1	119.5	0.05	-0.05	0.11
6,299.0	0.60	143.10	6,297.0	-67.3	109.8	121.6	0.22	-0.21	3.74
6,486.0	0.60	62.70	6,484.0	-67.6	111.3	123.1	0.41	0.00	-42.99
6,672.0	2.20	88.90	6,670.0	-67.1	115.7	127.4	0.90	0.86	14.09
6,859.0	1.70	126.30	6,856.9	-68.7	121.5	133.4	0.71	-0.27	20.00
7,046.0	1.60	116.90	7,043.8	-71.5	126.1	138.5	0.15	-0.05	-5.03
7,234.0	1.40	110.60	7,231.7	-73.5	130.6	143.3	0.14	-0.11	-3.35
7,421.0	1.30	111.10	7,418.7	-75.0	134.7	147.6	0.05	-0.05	0.27
7,608.0	1.20	129.20	7,605.6	-77.0	138.2	151.5	0.22	-0.05	9.68
7,795.0	0.90	138.20	7,792.6	-79.4	140.7	154.4	0.18	-0.16	4.81
7,981.0	1.30	84.00	7,978.6	-80.2	143.8	157.6	0.57	0.22	-29.14
8,168.0	1.30	53.50	8,165.5	-78.8	147.6	161.0	0.37	0.00	-16.31
8,356.0	1.10	58.30	8,353.5	-76.5	150.8	163.7	0.12	-0.11	2.55
8,543.0	0.80	55.30	8,540.4	-74.9	153.4	165.9	0.16	-0.16	-1.60

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W1PA Fed Com #2H
Project:	Lea County N.M.	TVD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com	MD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Well:	Salado Draw 10 W1PA 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)
8,730.0	1.60	73.30	8,727.4	-73.4	157.0	169.1	0.47	0.43	9.63
8,917.0	1.10	87.50	8,914.4	-72.5	161.3	173.1	0.32	-0.27	7.59
9,103.0	0.60	103.00	9,100.3	-72.7	164.0	175.8	0.29	-0.27	8.33
9,291.0	0.90	52.40	9,288.3	-72.0	166.2	177.7	0.37	0.16	-26.91
9,478.0	0.80	41.40	9,475.3	-70.1	168.2	179.3	0.10	-0.05	-5.88
9,665.0	2.00	109.90	9,662.2	-70.3	172.1	183.2	1.00	0.64	36.63
9,852.0	1.40	115.20	9,849.2	-72.3	177.2	188.6	0.33	-0.32	2.83
10,003.2	1.44	142.66	10,000.4	-74.6	180.1	191.9	0.45	0.03	18.16
BB									
10,039.0	1.50	148.50	10,036.1	-75.4	180.6	192.5	0.45	0.16	16.33
10,226.0	1.00	195.80	10,223.1	-79.1	181.4	194.1	0.59	-0.27	25.29
10,413.0	0.60	238.00	10,410.0	-81.1	180.2	193.3	0.37	-0.21	22.57
10,600.0	1.60	331.60	10,597.0	-79.4	178.1	190.9	0.93	0.53	50.05
10,787.0	1.50	13.00	10,784.0	-74.7	177.4	189.3	0.59	-0.05	22.14
10,975.0	1.50	12.70	10,971.9	-69.9	178.5	189.3	0.00	0.00	-0.16
11,161.0	1.70	21.80	11,157.8	-64.9	180.0	189.8	0.17	0.11	4.89
11,349.0	0.70	132.70	11,345.8	-63.1	181.9	191.2	1.09	-0.53	58.99
11,536.0	2.00	234.20	11,532.8	-65.8	180.1	190.0	1.20	0.70	54.28
11,723.0	0.90	203.50	11,719.7	-69.1	176.9	187.6	0.70	-0.59	-16.42
11,865.0	2.90	158.10	11,861.6	-73.4	177.8	189.4	1.66	1.41	-31.97
12,052.0	0.20	234.50	12,048.5	-78.0	179.3	191.8	1.53	-1.44	40.86
12,084.0	0.40	315.10	12,080.5	-78.0	179.2	191.7	1.30	0.63	251.88
12,115.0	2.80	352.30	12,111.5	-77.1	179.0	191.3	8.04	7.74	120.00
12,146.0	6.60	357.60	12,142.4	-74.6	178.8	190.6	12.32	12.26	17.10
12,177.0	10.10	0.20	12,173.1	-70.1	178.7	189.6	11.35	11.29	8.39
12,208.0	12.60	2.00	12,203.5	-64.0	178.9	188.4	8.14	8.06	5.81
12,240.0	16.00	2.80	12,234.5	-56.1	179.2	187.1	10.64	10.63	2.50
12,271.0	19.30	5.50	12,264.0	-46.7	179.9	185.7	10.97	10.65	8.71
12,302.0	21.90	3.50	12,293.0	-35.9	180.7	184.2	8.69	8.39	-6.45
12,333.0	24.70	1.00	12,321.5	-23.6	181.2	182.1	9.58	9.03	-8.06
12,364.0	27.60	0.70	12,349.3	-10.0	181.4	179.3	9.36	9.35	-0.97
12,396.0	30.90	0.80	12,377.2	5.7	181.6	176.2	10.31	10.31	0.31
12,427.0	34.10	0.30	12,403.4	22.3	181.8	172.8	10.36	10.32	-1.61
12,458.0	36.90	359.80	12,428.6	40.3	181.8	169.0	9.08	9.03	-1.61
12,489.0	38.60	358.00	12,453.1	59.3	181.4	164.5	6.53	5.48	-5.81
12,520.0	40.80	357.30	12,477.0	79.1	180.6	159.5	7.24	7.10	-2.26
12,552.0	43.90	358.40	12,500.6	100.6	179.8	154.1	9.96	9.69	3.44
12,583.0	46.30	0.50	12,522.5	122.6	179.6	149.2	9.11	7.74	6.77
12,614.0	48.70	1.50	12,543.4	145.4	180.0	144.8	8.10	7.74	3.23
12,645.0	52.10	0.80	12,563.2	169.3	180.5	140.1	11.10	10.97	-2.26
12,676.0	56.00	359.50	12,581.4	194.4	180.5	134.8	13.03	12.58	-4.19
12,707.0	60.00	359.50	12,597.8	220.7	180.3	129.0	12.90	12.90	0.00
12,739.0	63.00	359.80	12,613.1	248.8	180.1	122.8	9.41	9.38	0.94

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W1PA Fed Com #2H
Project:	Lea County N.M.	TVD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com	MD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Well:	Salado Draw 10 W1PA 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)
12,770.0	66.90	359.80	12,626.2	276.9	180.0	116.7	12.58	12.58	0.00
12,795.0	70.30	359.00	12,635.3	300.1	179.8	111.5	13.92	13.60	-3.20
12,858.0	77.90	356.10	12,652.6	360.6	177.2	96.0	12.85	12.06	-4.60
12,889.0	79.20	355.40	12,658.7	390.9	174.9	87.3	4.74	4.19	-2.26
12,977.0	81.94	355.02	12,673.1	477.4	167.7	61.8	3.15	3.12	-0.43
LP Salado Draw 10 W1PA Fed Com 2H									
12,982.0	82.10	355.00	12,673.8	482.3	167.2	60.3	3.15	3.12	-0.43
13,076.0	83.50	354.80	12,685.6	575.2	159.0	32.3	1.50	1.49	-0.21
13,169.0	87.70	354.60	12,692.8	667.5	150.4	4.2	4.52	4.52	-0.22
13,262.0	91.00	354.70	12,693.8	760.1	141.7	-24.0	3.55	3.55	0.11
13,356.0	90.60	353.70	12,692.5	853.6	132.2	-53.3	1.15	-0.43	-1.06
13,448.0	91.50	354.70	12,690.8	945.1	122.9	-81.9	1.46	0.98	1.09
13,542.0	92.10	354.70	12,687.9	1,038.7	114.2	-110.4	0.64	0.64	0.00
13,636.0	90.10	354.80	12,686.1	1,132.3	105.6	-138.8	2.13	-2.13	0.11
13,729.0	89.60	354.00	12,686.3	1,224.8	96.6	-167.5	1.01	-0.54	-0.86
13,823.0	89.90	353.20	12,686.7	1,318.2	86.1	-197.7	0.91	0.32	-0.85
13,917.0	90.30	353.30	12,686.5	1,411.6	75.0	-228.4	0.44	0.43	0.11
14,010.0	91.30	354.00	12,685.2	1,504.0	64.8	-258.2	1.31	1.08	0.75
14,105.0	90.10	352.20	12,684.1	1,598.3	53.3	-289.5	2.28	-1.26	-1.89
14,199.0	91.60	358.10	12,682.7	1,691.9	45.4	-317.3	6.48	1.60	6.28
14,292.0	90.50	1.30	12,681.0	1,784.9	44.9	-337.6	3.64	-1.18	3.44
14,386.0	90.30	1.70	12,680.3	1,878.9	47.4	-355.3	0.48	-0.21	0.43
14,479.0	90.20	1.90	12,679.9	1,971.8	50.3	-372.3	0.24	-0.11	0.22
14,573.0	89.30	1.00	12,680.3	2,065.8	52.7	-390.1	1.35	-0.96	-0.96
14,666.0	87.40	1.10	12,683.0	2,158.7	54.4	-408.3	2.05	-2.04	0.11
14,760.0	86.80	1.10	12,687.8	2,252.6	56.2	-426.6	0.64	-0.64	0.00
14,853.0	90.60	4.10	12,689.9	2,345.4	60.4	-442.3	5.21	4.09	3.23
14,946.0	91.30	5.60	12,688.3	2,438.1	68.3	-454.4	1.78	0.75	1.61
15,040.0	90.70	5.60	12,686.7	2,531.6	77.4	-465.5	0.64	-0.64	0.00
15,133.0	89.40	5.60	12,686.6	2,624.2	86.5	-476.4	1.40	-1.40	0.00
15,227.0	87.10	3.60	12,689.5	2,717.8	94.0	-489.1	3.24	-2.45	-2.13
15,321.0	85.50	3.30	12,695.5	2,811.4	99.7	-503.6	1.73	-1.70	-0.32
15,414.0	87.90	0.30	12,700.9	2,904.2	102.6	-520.5	4.13	2.58	-3.23
15,508.0	92.40	0.00	12,700.7	2,998.2	102.9	-540.4	4.80	4.79	-0.32
15,601.0	91.10	358.90	12,697.8	3,091.2	102.0	-561.1	1.83	-1.40	-1.18
15,695.0	92.60	358.30	12,694.8	3,185.1	99.7	-583.4	1.72	1.60	-0.64
15,788.0	91.00	357.60	12,691.9	3,278.0	96.3	-606.5	1.88	-1.72	-0.75
15,882.0	92.40	359.00	12,689.1	3,371.9	93.5	-629.3	2.11	1.49	1.49
15,975.0	93.00	359.10	12,684.7	3,464.8	92.0	-650.7	0.65	0.65	0.11
16,069.0	88.40	359.10	12,683.5	3,558.7	90.5	-672.2	4.89	-4.89	0.00
16,162.0	90.90	0.20	12,684.1	3,651.7	90.0	-692.7	2.94	2.69	1.18
16,255.0	95.10	3.30	12,679.2	3,744.5	92.8	-709.7	5.61	4.52	3.33
16,349.0	93.50	4.10	12,672.2	3,838.0	98.8	-723.8	1.90	-1.70	0.85

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W1PA Fed Com #2H
Project:	Lea County N.M.	TVD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw 10 W1PA Fed Com	MD Reference:	3328 + 27 @ 3355.0usft (Patterson 242)
Well:	Salado Draw 10 W1PA 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)
16,442.0	92.60	5.20	12,667.2	3,930.6	106.4	-736.2	1.53	-0.97	1.18
16,535.0	90.30	4.10	12,664.9	4,023.3	113.9	-748.7	2.74	-2.47	-1.18
16,628.0	89.70	4.10	12,664.9	4,116.0	120.6	-762.0	0.65	-0.65	0.00
16,722.0	89.20	3.30	12,665.8	4,209.8	126.6	-776.1	1.00	-0.53	-0.85
16,816.0	90.20	3.50	12,666.3	4,303.6	132.2	-790.7	1.08	1.06	0.21
16,909.0	90.90	3.30	12,665.4	4,396.5	137.7	-805.2	0.78	0.75	-0.22
17,003.0	90.50	3.20	12,664.2	4,490.3	143.0	-820.1	0.44	-0.43	-0.11
17,096.0	91.30	2.80	12,662.8	4,583.2	147.9	-835.1	0.96	0.86	-0.43
17,190.0	88.40	3.00	12,663.0	4,677.0	152.7	-850.6	3.09	-3.09	0.21
17,283.0	88.10	3.30	12,665.9	4,769.9	157.8	-865.4	0.46	-0.32	0.32
17,377.0	88.70	1.60	12,668.5	4,863.7	161.8	-881.6	1.92	0.64	-1.81
17,470.0	89.50	359.80	12,670.0	4,956.7	162.9	-900.3	2.12	0.86	-1.94
17,564.0	92.80	359.20	12,668.1	5,050.7	162.1	-921.2	3.57	3.51	-0.64
17,656.0	96.00	359.00	12,661.0	5,142.4	160.7	-942.2	3.49	3.48	-0.22
17,710.0	96.00	359.00	12,655.4	5,196.1	159.7	-954.6	0.00	0.00	0.00

17710.0' MD Projected to Bit - PBHL Salado Draw 10 W1PA Fed Com 2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
912.0	911.8	-6.6	15.3	912' MD Teledrift
17,710.0	12,655.4	5,196.1	159.7	17710.0' MD Projected to Bit