



HOBBS OCD

JAN 16 2018

RECEIVED

July 19, 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 WOPA Federal Com #003H
Wolfcamp Y Sand (W0)
Lea County, New Mexico
API# 30-025-43577

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Greg Morris	Original Hole	1,173ft. to 17,237ft.	05-16-17 to 06-05-17	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 WOPA Federal Com #3H\M171034

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 May 16, 2017, through June 05, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,173 feet to a depth of 17,237 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 WOPA Federal Com #003H well, API # **30-025-43577** 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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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 15-10-26S-33E Salado Draw WOPA Fed
Well: Salado Draw 10 WOPA Fed Com #3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Salado Draw 10 WOPA Fed Com #3H
TVD Reference: 3325 + 27 @ 3352.0usft (Patterson 242)
MD Reference: 3325 + 27 @ 3352.0usft (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 WOPA Fed Com 3H			
Site Position:		Northing:	382,757.60 usft	Latitude: 32° 2' 59.691 N
From: Map		Easting:	741,753.90 usft	Longitude: 103° 33' 11.003 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 "

Well	Salado Draw 10 WOPA Fed Com #3H			
Well Position	+N/-S	0.0 usft	Northing:	382,757.60 usft
	+E/-W	0.0 usft	Easting:	741,753.90 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft
			Latitude:	32° 2' 59.691 N
			Longitude:	103° 33' 11.003 W
			Ground Level:	3,325.0 usft

Wellbore	Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	5/8/2017	6.94	59.91	47,848.48520602	

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	96.23	

Survey Program	Date 6/5/2017				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.0	17,290.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM	



Microsoft
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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	0.0	
200.0	1.10	188.50	200.0	-1.9	-0.3	1.9	188.50	
400.0	0.70	189.00	400.0	-5.0	-0.8	5.1	188.62	
600.0	1.30	90.00	599.9	-6.2	1.3	6.3	168.01	
800.0	0.90	94.00	799.9	-6.3	5.2	8.2	140.80	
1,000.0	0.90	94.00	999.9	-6.5	8.3	10.6	128.27	Tie-In
1,173.0	1.10	95.50	1,172.9	-6.8	11.3	13.2	121.02	
1,363.0	1.30	81.70	1,362.8	-6.7	15.2	16.6	113.59	
1,553.0	1.50	85.50	1,552.8	-6.2	19.9	20.8	107.21	
1,710.0	1.30	72.70	1,709.7	-5.5	23.6	24.2	103.02	
1,897.0	1.60	65.40	1,896.6	-3.7	28.0	28.3	97.61	
2,085.0	1.50	60.30	2,084.6	-1.4	32.5	32.6	92.52	
2,271.0	0.40	249.40	2,270.6	-0.5	34.0	34.0	90.76	
2,459.0	0.40	249.50	2,458.6	-0.9	32.8	32.8	91.80	
2,646.0	0.90	248.80	2,645.5	-1.7	30.8	30.9	93.11	
2,836.0	1.00	239.40	2,835.5	-3.1	28.0	28.2	96.23	
3,023.0	0.90	203.80	3,022.5	-5.2	26.0	26.5	101.37	
3,210.0	1.10	177.70	3,209.5	-8.4	25.5	26.8	108.18	
3,397.0	1.40	174.90	3,396.4	-12.4	25.8	28.6	115.77	
3,584.0	1.20	170.80	3,583.4	-16.6	26.3	31.1	122.35	
3,771.0	2.10	131.60	3,770.3	-20.9	29.2	35.8	125.57	
3,958.0	3.20	115.70	3,957.1	-25.4	36.4	44.4	124.88	
4,145.0	2.60	87.00	4,143.9	-27.4	45.4	53.0	121.16	
4,332.0	1.40	68.90	4,330.8	-26.4	51.7	58.1	117.03	
4,519.0	1.80	67.00	4,517.7	-24.4	56.6	61.6	113.35	
4,706.0	1.80	20.20	4,704.6	-20.5	60.3	63.7	108.79	
4,893.0	1.90	36.80	4,891.5	-15.3	63.2	65.0	103.60	



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4,927.0	2.10	38.70	4,925.5	-14.3	63.9	65.5	102.65
4,988.0	1.80	44.00	4,986.4	-12.8	65.2	66.5	101.08
5,176.0	2.60	288.60	5,174.4	-9.3	63.3	63.9	98.36
5,364.0	2.80	279.40	5,362.2	-7.2	54.7	55.2	97.48
5,551.0	1.20	291.10	5,549.0	-5.7	48.3	48.7	96.76
5,738.0	1.30	291.80	5,736.0	-4.2	44.6	44.8	95.43
5,925.0	1.20	294.60	5,923.0	-2.6	40.8	40.9	93.70
6,112.0	1.50	296.40	6,109.9	-0.7	36.8	36.8	91.14
6,299.0	1.70	290.00	6,296.8	1.3	32.0	32.1	87.67
6,486.0	1.50	285.30	6,483.8	2.9	27.1	27.2	83.89
6,672.0	1.70	289.80	6,669.7	4.5	22.1	22.6	78.56
6,860.0	1.70	288.70	6,857.6	6.3	16.9	18.0	69.46
7,047.0	1.80	287.30	7,044.5	8.1	11.4	14.0	54.73
7,234.0	1.90	296.70	7,231.4	10.3	5.8	11.9	29.48
7,421.0	0.70	99.40	7,418.4	11.6	4.2	12.3	20.00
7,608.0	0.90	108.00	7,605.4	10.9	6.7	12.8	31.66
7,795.0	0.70	111.10	7,792.4	10.0	9.2	13.6	42.46
7,981.0	0.50	171.10	7,978.3	8.8	10.4	13.6	49.59
8,169.0	0.70	183.30	8,166.3	6.9	10.4	12.5	56.62
8,356.0	0.50	204.10	8,353.3	5.0	10.0	11.2	63.56
8,543.0	0.90	209.90	8,540.3	3.0	9.0	9.5	71.66
8,730.0	1.00	217.40	8,727.3	0.4	7.3	7.3	86.81
8,917.0	1.10	227.00	8,914.3	-2.1	4.9	5.4	113.16
9,104.0	1.20	238.60	9,101.2	-4.4	2.0	4.8	155.77
9,291.0	1.40	129.30	9,288.2	-6.8	2.1	7.1	163.22
9,478.0	0.30	338.30	9,475.2	-7.8	3.6	8.6	155.01
9,665.0	1.40	330.60	9,662.1	-5.4	2.3	5.9	156.45



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9,852.0	0.40	56.10	9,849.1	-3.0	1.8	3.5	149.72
10,039.0	1.30	275.30	10,036.1	-2.5	0.2	2.5	175.52
10,226.0	0.80	127.60	10,223.1	-2.9	-1.1	3.1	201.79
10,414.0	0.80	126.20	10,411.1	-4.2	0.7	4.3	170.68
10,600.0	0.40	244.40	10,597.1	-5.3	1.2	5.4	167.65
10,788.0	0.70	126.70	10,785.1	-6.3	1.5	6.4	166.63
10,975.0	0.90	63.30	10,972.1	-6.3	3.7	7.3	149.39
11,162.0	2.70	0.50	11,159.0	-1.2	5.1	5.2	103.47
11,349.0	2.40	291.20	11,345.8	4.6	1.5	4.8	17.49
11,466.0	4.30	272.00	11,462.6	5.6	-5.2	7.7	317.28
11,522.0	5.80	271.90	11,518.4	5.8	-10.1	11.7	299.83
11,554.0	8.80	271.70	11,550.1	5.9	-14.2	15.4	292.69
11,585.0	9.80	277.50	11,580.7	6.4	-19.2	20.2	288.32
11,616.0	12.10	272.60	11,611.2	6.8	-25.1	26.0	285.29
11,647.0	15.50	271.90	11,641.3	7.1	-32.4	33.2	282.40
11,678.0	19.10	270.50	11,670.9	7.3	-41.7	42.3	279.96
11,709.0	21.40	273.50	11,699.9	7.7	-52.4	52.9	278.37
11,741.0	23.30	275.70	11,729.5	8.7	-64.5	65.1	277.67
11,772.0	25.80	279.40	11,757.7	10.4	-77.3	78.0	277.67
11,803.0	28.10	281.40	11,785.4	12.9	-91.1	92.0	278.09
11,834.0	31.90	280.90	11,812.2	15.9	-106.3	107.5	278.53
11,865.0	35.70	280.40	11,838.0	19.1	-123.2	124.7	278.82
11,896.0	39.60	283.90	11,862.5	23.1	-141.7	143.6	279.27
11,927.0	42.50	290.20	11,885.9	29.1	-161.2	163.8	280.24
11,959.0	45.10	296.10	11,909.0	37.8	-181.5	185.4	281.78
11,990.0	48.90	303.30	11,930.2	49.1	-201.1	207.0	283.72
12,021.0	48.90	310.30	11,950.5	63.1	-219.8	228.7	286.01



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12,052.0	50.30	316.40	11,970.7	79.3	-237.0	249.9	288.50
12,083.0	50.30	320.40	11,990.5	97.1	-252.8	270.8	291.01
12,115.0	51.30	323.50	12,010.7	116.6	-268.1	292.3	293.51
12,146.0	52.20	327.00	12,029.9	136.6	-281.9	313.3	295.86
12,177.0	54.20	331.60	12,048.5	158.0	-294.6	334.3	298.20
12,208.0	56.10	335.00	12,066.2	180.7	-306.0	355.4	300.56
12,239.0	57.90	338.20	12,083.1	204.6	-316.3	376.7	302.89
12,271.0	59.40	341.10	12,099.7	230.2	-325.8	398.9	305.24
12,302.0	61.00	342.90	12,115.1	255.8	-334.1	420.8	307.43
12,333.0	62.20	344.90	12,129.9	282.0	-341.7	443.0	309.53
12,364.0	63.50	347.80	12,144.0	308.8	-348.2	465.4	311.56
12,395.0	65.00	349.10	12,157.5	336.1	-353.8	488.0	313.53
12,426.0	66.20	350.70	12,170.3	363.9	-358.7	511.0	315.41
12,458.0	67.40	352.50	12,182.9	393.0	-363.0	535.0	317.27
12,489.0	69.10	354.50	12,194.4	421.6	-366.3	558.5	319.02
12,520.0	70.40	356.00	12,205.1	450.6	-368.7	582.2	320.71
12,551.0	71.80	356.90	12,215.1	479.9	-370.5	606.2	322.33
12,585.0	73.50	357.80	12,225.3	512.3	-372.0	633.1	324.01
12,603.0	74.60	358.40	12,230.2	529.6	-372.6	647.5	324.87
12,678.8	75.96	358.63	12,249.5	602.8	-374.5	709.7	328.15
LP Salado Draw 10 WOPA Fed Com 3H							
12,703.0	76.40	358.70	12,255.3	626.4	-375.0	730.0	329.09
12,797.0	76.00	359.90	12,277.7	717.6	-376.1	810.2	332.34
12,890.0	75.00	0.50	12,301.0	807.7	-375.8	890.8	335.05
12,984.0	73.00	0.60	12,326.9	898.0	-375.0	973.2	337.34
13,077.0	76.70	357.70	12,351.2	987.7	-376.3	1,057.0	339.14
13,170.0	85.50	356.40	12,365.6	1,079.4	-381.0	1,144.7	340.56



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13,254.0	87.30	356.40	12,371.5	1,173.0	-386.9	1,235.2	341.74
13,357.0	91.00	357.10	12,372.9	1,265.9	-392.2	1,325.2	342.79
13,451.0	89.20	356.40	12,372.7	1,359.7	-397.5	1,416.6	343.70
13,638.0	89.00	357.00	12,375.6	1,546.4	-408.3	1,599.4	345.21
13,732.0	91.80	359.70	12,375.0	1,640.3	-411.0	1,691.0	345.93
13,826.0	91.10	359.60	12,372.6	1,734.3	-411.6	1,782.4	346.65
14,012.0	90.90	1.60	12,369.3	1,920.2	-409.6	1,963.4	347.96
14,105.0	91.60	3.60	12,367.3	2,013.1	-405.4	2,053.5	348.61
14,292.0	87.80	5.40	12,368.3	2,199.5	-390.7	2,233.9	349.93
14,386.0	88.20	5.60	12,371.6	2,293.0	-381.7	2,324.6	350.55
14,573.0	89.60	6.20	12,375.2	2,479.0	-362.5	2,505.3	351.68
14,666.0	91.20	4.20	12,374.5	2,571.6	-354.1	2,595.8	352.16
14,759.0	89.40	5.80	12,374.0	2,664.2	-346.0	2,686.6	352.60
14,946.0	89.10	6.80	12,376.5	2,850.1	-325.5	2,868.6	353.49
15,040.0	95.00	4.70	12,373.1	2,943.5	-316.1	2,960.4	353.87
15,133.0	95.90	4.20	12,364.3	3,035.8	-308.9	3,051.5	354.19
15,227.0	92.60	3.20	12,367.3	3,129.3	-302.8	3,143.9	354.47
15,320.0	91.60	2.30	12,363.9	3,222.1	-298.4	3,235.9	354.71
15,414.0	89.60	358.80	12,352.9	3,316.1	-297.5	3,329.4	354.87
15,501.0	91.40	358.60	12,351.3	3,503.1	-301.7	3,516.0	355.08
15,694.0	90.90	358.90	12,349.4	3,596.0	-303.7	3,608.8	355.17
15,788.0	90.60	359.70	12,348.2	3,690.0	-304.9	3,702.6	355.28
15,881.0	89.80	0.00	12,347.9	3,783.0	-305.1	3,795.3	355.39
15,975.0	91.50	358.10	12,346.8	3,877.0	-306.7	3,889.1	355.48
16,068.0	91.80	359.70	12,344.1	3,969.9	-308.5	3,981.9	355.56
16,161.0	91.30	359.50	12,341.6	4,062.9	-309.1	4,074.6	355.65
16,255.0	90.30	358.80	12,340.3	4,156.9	-310.5	4,168.4	355.73



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North Reference: Grid
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Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
16,348.0	89.80	358.40	12,340.2	4,249.8	-312.8	4,261.3	355.79
16,441.0	91.30	357.30	12,339.3	4,342.7	-316.3	4,354.3	355.83
16,534.0	89.70	357.00	12,338.5	4,435.6	-320.9	4,447.2	355.86
16,721.0	92.70	355.70	12,334.6	4,622.2	-332.8	4,634.1	355.88
16,815.0	92.20	355.90	12,330.6	4,715.8	-339.7	4,728.1	355.88
16,909.0	91.90	355.70	12,327.2	4,809.5	-346.6	4,822.0	355.88
17,002.0	90.80	355.00	12,325.0	4,902.2	-354.1	4,915.0	355.87
17,096.0	90.10	354.80	12,324.3	4,995.8	-362.5	5,009.0	355.85
17,189.0	89.20	354.10	12,324.9	5,088.4	-371.4	5,101.9	355.82
17,237.0	88.90	354.50	12,325.6	5,136.1	-376.2	5,149.9	355.81
17,290.0	88.90	354.50	12,326.7	5,188.9	-381.3	5,202.9	355.80

17290' MD Projected to Bit - PBHL Salado Draw 10 WOPA Fed Com 3H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,290.0	12,326.7	5,188.9	-381.3	17290' MD Projected to Bit

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MEWBOURNE
OIL COMPANY

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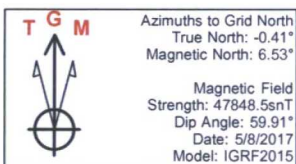
COMPANY: Mewbourne Oil Company
WELL: Salado Draw 10 WOPA Fed Com #3H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 242



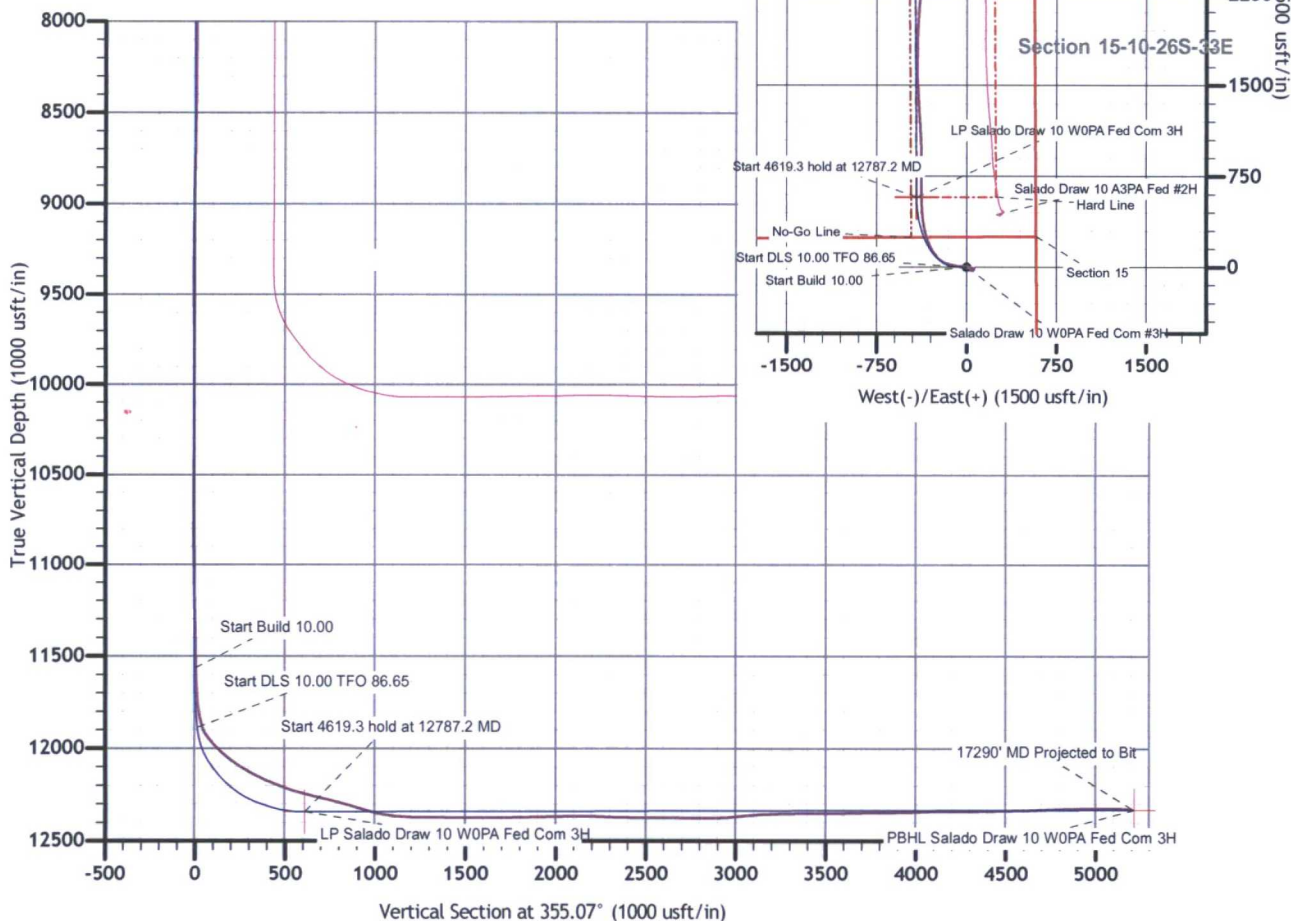
OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.53°

GEODETIC ZONE: New Mexico East 3001 3325 + 27 @ 3352.0usft (Patterson 242) GROUND ELEVATION: 3325.0										Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	382757.60	741753.90	32° 2' 59.691 N	103° 33' 11.003 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	11565.0	0.00	0.00	11565.0	0.0	0.0	0.00	0.00	0.0	
3	11908.3	34.32	273.55	11888.1	6.2	-99.6	10.00	273.55	14.7	
4	12787.2	90.12	359.58	12343.0	577.6	-414.3	10.00	86.65	611.1	LP Salado Draw 10 WOPA Fed Com 3H
5	17406.5	90.12	359.58	12333.0	5196.8	-448.1	0.00	0.00	5216.1	PBHL Salado Draw 10 WOPA Fed Com 3H



SHL: 250' FNL; 580' FEL
Section 15-26S-33E
PBHL: 330' FNL; 990' FEL
Section 10-26S-33E





HOBBS OCD

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Mewbourne Oil Company

Lea County N.M.

Section 15-10-26S-33E Salado Draw W0PA Fed Com 3H

Salado Draw 10 W0PA Fed Com #3H

Original Hole

Design: Original Hole

Standard Survey Report

05 June, 2017



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W0PA Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw W0PA Fed Com 3H	MD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Well:	Salado Draw 10 W0PA Fed Com #3H	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 W0PA Fed Com 3H		
Site Position:		Northing:	382,757.60 usft
From:	Map	Easting:	741,753.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 59.691 N
		Longitude:	103° 33' 11.003 W
		Grid Convergence:	0.41 °

Well	Salado Draw 10 W0PA Fed Com #3H		
Well Position	+N/-S	0.0 usft	Northing: 382,757.60 usft
	+E/-W	0.0 usft	Easting: 741,753.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 2' 59.691 N
		Longitude:	103° 33' 11.003 W
		Ground Level:	3,325.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/8/2017	6.94	59.91	47,848.48520602

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	96.23

Survey Program		Date 6/5/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	17,290.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

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
200.0	1.10	188.50	200.0	-1.9	-0.3	-0.1	0.55	0.55	0.00
400.0	0.70	189.00	400.0	-5.0	-0.8	-0.2	0.20	-0.20	0.25
600.0	1.30	90.00	599.9	-6.2	1.3	2.0	0.78	0.30	-49.50
800.0	0.90	94.00	799.9	-6.3	5.2	5.8	0.20	-0.20	2.00
1,000.0	0.90	94.00	999.9	-6.5	8.3	8.9	0.00	0.00	0.00
1,173.0	1.10	95.50	1,172.9	-6.8	11.3	12.0	0.12	0.12	0.87
1,363.0	1.30	81.70	1,362.8	-6.7	15.2	15.9	0.18	0.11	-7.26
1,553.0	1.50	85.50	1,552.8	-6.2	19.9	20.4	0.12	0.11	2.00
1,710.0	1.30	72.70	1,709.7	-5.5	23.6	24.1	0.24	-0.13	-8.15

Tie-In to Rig

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W0PA Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw W0PA Fed Com 3H	MD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Well:	Salado Draw 10 W0PA Fed Com #3H	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)
1,897.0	1.60	65.40	1,896.6	-3.7	28.0	28.2	0.19	0.16	-3.90
2,085.0	1.50	60.30	2,084.6	-1.4	32.5	32.5	0.09	-0.05	-2.71
2,271.0	0.40	249.40	2,270.6	-0.5	34.0	33.9	1.02	-0.59	-91.88
2,459.0	0.40	249.50	2,458.6	-0.9	32.8	32.7	0.00	0.00	0.05
2,646.0	0.90	248.80	2,645.5	-1.7	30.8	30.8	0.27	0.27	-0.37
2,836.0	1.00	239.40	2,835.5	-3.1	28.0	28.2	0.10	0.05	-4.95
3,023.0	0.90	203.80	3,022.5	-5.2	26.0	26.4	0.31	-0.05	-19.04
3,210.0	1.10	177.70	3,209.5	-8.4	25.5	26.2	0.26	0.11	-13.96
3,397.0	1.40	174.90	3,396.4	-12.4	25.8	27.0	0.16	0.16	-1.50
3,584.0	1.20	170.80	3,583.4	-16.6	26.3	27.9	0.12	-0.11	-2.19
3,771.0	2.10	131.60	3,770.3	-20.9	29.2	31.2	0.75	0.48	-20.96
3,958.0	3.20	115.70	3,957.1	-25.4	36.4	39.0	0.70	0.59	-8.50
4,145.0	2.60	87.00	4,143.9	-27.4	45.4	48.1	0.83	-0.32	-15.35
4,332.0	1.40	68.90	4,330.8	-26.4	51.7	54.3	0.72	-0.64	-9.68
4,519.0	1.80	67.00	4,517.7	-24.4	56.6	58.9	0.22	0.21	-1.02
4,706.0	1.80	20.20	4,704.6	-20.5	60.3	62.2	0.76	0.00	-25.03
4,893.0	1.90	36.80	4,891.5	-15.3	63.2	64.4	0.29	0.05	8.88
4,927.0	2.10	38.70	4,925.5	-14.3	63.9	65.1	0.62	0.59	5.59
4,988.0	1.80	44.00	4,986.4	-12.8	65.2	66.2	0.57	-0.49	8.69
5,176.0	2.60	288.60	5,174.4	-9.3	63.3	63.9	1.99	0.43	-61.38
5,364.0	2.80	279.40	5,362.2	-7.2	54.7	55.1	0.25	0.11	-4.89
5,551.0	1.20	291.10	5,549.0	-5.7	48.3	48.7	0.88	-0.86	6.26
5,738.0	1.30	291.80	5,736.0	-4.2	44.6	44.7	0.05	0.05	0.37
5,925.0	1.20	294.60	5,923.0	-2.6	40.8	40.8	0.06	-0.05	1.50
6,112.0	1.50	296.40	6,109.9	-0.7	36.8	36.7	0.16	0.16	0.96
6,299.0	1.70	290.00	6,296.8	1.3	32.0	31.7	0.14	0.11	-3.42
6,486.0	1.50	285.30	6,483.8	2.9	27.1	26.6	0.13	-0.11	-2.51
6,672.0	1.70	289.80	6,669.7	4.5	22.1	21.5	0.13	0.11	2.42
6,860.0	1.70	288.70	6,857.6	6.3	16.9	16.1	0.02	0.00	-0.59
7,047.0	1.80	287.30	7,044.5	8.1	11.4	10.5	0.06	0.05	-0.75
7,234.0	1.90	296.70	7,231.4	10.3	5.8	4.7	0.17	0.05	5.03
7,421.0	0.70	99.40	7,418.4	11.6	4.2	2.9	1.38	-0.64	87.01
7,608.0	0.90	108.00	7,605.4	10.9	6.7	5.5	0.12	0.11	4.60
7,795.0	0.70	111.10	7,792.4	10.0	9.2	8.0	0.11	-0.11	1.66
7,981.0	0.50	171.10	7,978.3	8.8	10.4	9.4	0.34	-0.11	32.26
8,169.0	0.70	183.30	8,166.3	6.9	10.4	9.6	0.13	0.11	6.49
8,356.0	0.50	204.10	8,353.3	5.0	10.0	9.4	0.16	-0.11	11.12
8,543.0	0.90	209.90	8,540.3	3.0	9.0	8.6	0.22	0.21	3.10
8,730.0	1.00	217.40	8,727.3	0.4	7.3	7.2	0.09	0.05	4.01
8,917.0	1.10	227.00	8,914.3	-2.1	4.9	5.1	0.11	0.05	5.13
9,104.0	1.20	238.60	9,101.2	-4.4	2.0	2.4	0.14	0.05	6.20
9,291.0	1.40	129.30	9,288.2	-6.8	2.1	2.8	1.14	0.11	-58.45

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W0PA Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw W0PA Fed Com 3H	MD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Well:	Salado Draw 10 W0PA Fed Com #3H	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)
9,478.0	0.30	338.30	9,475.2	-7.8	3.6	4.5	0.89	-0.59	-80.75
9,665.0	1.40	330.60	9,662.1	-5.4	2.3	2.9	0.59	0.59	-4.12
9,852.0	0.40	56.10	9,849.1	-3.0	1.8	2.1	0.76	-0.53	45.72
10,039.0	1.30	275.30	10,036.1	-2.5	0.2	0.5	0.87	0.48	-75.29
10,226.0	0.60	127.60	10,223.1	-2.9	-1.1	-0.8	0.98	-0.37	-78.98
10,414.0	0.80	126.20	10,411.1	-4.2	0.7	1.2	0.11	0.11	-0.74
10,600.0	0.40	244.40	10,597.1	-5.3	1.2	1.7	0.56	-0.22	63.55
10,788.0	0.70	126.70	10,785.1	-6.3	1.5	2.2	0.51	0.16	-62.61
10,975.0	0.90	63.30	10,972.1	-6.3	3.7	4.4	0.46	0.11	-33.90
11,162.0	2.70	0.50	11,159.0	-1.2	5.1	5.2	1.30	0.96	-33.58
11,349.0	2.40	291.20	11,345.8	4.6	1.5	0.9	1.56	-0.16	-37.06
11,466.0	4.30	272.00	11,462.6	5.6	-5.2	-5.8	1.86	1.62	-16.41
11,522.0	5.80	271.90	11,518.4	5.8	-10.1	-10.7	2.68	2.68	-0.18
11,554.0	8.80	271.70	11,550.1	5.9	-14.2	-14.8	9.38	9.38	-0.63
11,585.0	9.80	277.50	11,580.7	6.4	-19.2	-19.8	4.42	3.23	18.71
11,616.0	12.10	272.60	11,611.2	6.8	-25.1	-25.6	8.00	7.42	-15.81
11,647.0	15.50	271.90	11,641.3	7.1	-32.4	-33.0	10.98	10.97	-2.26
11,678.0	19.10	270.50	11,670.9	7.3	-41.7	-42.2	11.69	11.61	-4.52
11,709.0	21.40	273.50	11,699.9	7.7	-52.4	-52.9	8.14	7.42	9.68
11,741.0	23.30	275.70	11,729.5	8.7	-64.5	-65.1	6.49	5.94	6.88
11,772.0	25.80	279.40	11,757.7	10.4	-77.3	-77.9	9.46	8.06	11.94
11,803.0	28.10	281.40	11,785.4	12.9	-91.1	-91.9	7.97	7.42	6.45
11,834.0	31.90	280.90	11,812.2	15.9	-106.3	-107.4	12.28	12.26	-1.61
11,865.0	35.70	280.40	11,838.0	19.1	-123.2	-124.6	12.29	12.26	-1.61
11,896.0	39.60	283.90	11,862.5	23.1	-141.7	-143.4	14.34	12.58	11.29
11,927.0	42.50	290.20	11,885.9	29.1	-161.2	-163.4	16.29	9.35	20.32
11,959.0	45.10	296.10	11,909.0	37.8	-181.5	-184.5	15.12	8.13	18.44
11,990.0	48.90	303.30	11,930.2	49.1	-201.1	-205.3	20.93	12.26	23.23
12,021.0	48.90	310.30	11,950.5	63.1	-219.8	-225.4	17.01	0.00	22.58
12,052.0	50.30	316.40	11,970.7	79.3	-237.0	-244.2	15.65	4.52	19.68
12,083.0	50.30	320.40	11,990.5	97.1	-252.8	-261.8	9.93	0.00	12.90
12,115.0	51.30	323.50	12,010.7	116.6	-268.1	-279.1	8.13	3.13	9.69
12,146.0	52.20	327.00	12,029.9	136.6	-281.9	-295.1	9.33	2.90	11.29
12,177.0	54.20	331.60	12,048.5	158.0	-294.6	-310.0	13.52	6.45	14.84
12,208.0	56.10	335.00	12,066.2	180.7	-306.0	-323.8	10.89	6.13	10.97
12,239.0	57.90	338.20	12,083.1	204.6	-316.3	-336.6	10.42	5.81	10.32
12,271.0	59.40	341.10	12,099.7	230.2	-325.8	-348.9	9.05	4.69	9.06
12,302.0	61.00	342.90	12,115.1	255.8	-334.1	-359.9	7.21	5.16	5.81
12,333.0	62.20	344.90	12,129.9	282.0	-341.7	-370.3	6.87	3.87	6.45
12,364.0	63.50	347.80	12,144.0	308.8	-348.2	-379.6	9.32	4.19	9.35
12,395.0	65.00	349.10	12,157.5	336.1	-353.8	-388.2	6.14	4.84	4.19
12,426.0	66.20	350.70	12,170.3	363.9	-358.7	-396.1	6.09	3.87	5.16
12,458.0	67.40	352.50	12,182.9	393.0	-363.0	-403.5	6.39	3.75	5.63

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W0PA Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw W0PA Fed Com 3H	MD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Well:	Salado Draw 10 W0PA Fed Com #3H	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)
12,489.0	69.10	354.50	12,194.4	421.6	-366.3	-409.9	8.12	5.48	6.45
12,520.0	70.40	356.00	12,205.1	450.6	-368.7	-415.4	6.18	4.19	4.84
12,551.0	71.80	356.90	12,215.1	479.9	-370.5	-420.4	5.29	4.52	2.90
12,585.0	73.50	357.80	12,225.3	512.3	-372.0	-425.4	5.60	5.00	2.65
12,603.0	74.60	358.40	12,230.2	529.6	-372.6	-427.8	6.90	6.11	3.33
12,678.8	75.96	358.63	12,249.5	602.8	-374.5	-437.7	1.82	1.80	0.30
LP Salado Draw 10 W0PA Fed Com 3H									
12,703.0	76.40	358.70	12,255.3	626.4	-375.0	-440.8	1.82	1.80	0.30
12,797.0	76.00	359.90	12,277.7	717.6	-376.1	-451.8	1.31	-0.43	1.28
12,890.0	75.00	0.50	12,301.0	807.7	-375.8	-461.2	1.24	-1.08	0.65
12,984.0	73.00	0.60	12,326.9	898.0	-375.0	-470.2	2.13	-2.13	0.11
13,077.0	76.70	357.70	12,351.2	987.7	-376.3	-481.3	4.99	3.98	-3.12
13,170.0	85.50	356.40	12,365.6	1,079.4	-381.0	-495.9	9.56	9.46	-1.40
13,264.0	87.30	356.40	12,371.5	1,173.0	-386.9	-511.9	1.91	1.91	0.00
13,357.0	91.00	357.10	12,372.9	1,265.9	-392.2	-527.2	4.05	3.98	0.75
13,451.0	89.20	356.40	12,372.7	1,359.7	-397.5	-542.7	2.05	-1.91	-0.74
13,638.0	89.00	357.00	12,375.6	1,546.4	-408.3	-573.7	0.34	-0.11	0.32
13,732.0	91.80	359.70	12,375.0	1,640.3	-411.0	-586.6	4.14	2.98	2.87
13,826.0	91.10	359.60	12,372.6	1,734.3	-411.6	-597.3	0.75	-0.74	-0.11
14,012.0	90.90	1.60	12,369.3	1,920.2	-409.6	-615.6	1.08	-0.11	1.08
14,105.0	91.60	3.60	12,367.3	2,013.1	-405.4	-621.4	2.28	0.75	2.15
14,292.0	87.80	5.40	12,368.3	2,199.5	-390.7	-627.1	2.25	-2.03	0.96
14,386.0	88.20	5.60	12,371.6	2,293.0	-381.7	-628.3	0.48	0.43	0.21
14,573.0	89.60	6.20	12,375.2	2,479.0	-362.5	-629.4	0.81	0.75	0.32
14,666.0	91.20	4.20	12,374.5	2,571.6	-354.1	-631.0	2.75	1.72	-2.15
14,759.0	89.40	5.80	12,374.0	2,664.2	-346.0	-633.0	2.59	-1.94	1.72
14,946.0	89.10	6.80	12,376.5	2,850.1	-325.5	-632.8	0.56	-0.16	0.53
15,040.0	95.00	4.70	12,373.1	2,943.5	-316.1	-633.6	6.66	6.28	-2.23
15,133.0	95.90	4.20	12,364.3	3,035.8	-308.9	-636.4	1.11	0.97	-0.54
15,227.0	92.60	3.20	12,357.3	3,129.3	-302.8	-640.6	3.67	-3.51	-1.06
15,320.0	91.60	2.30	12,353.9	3,222.1	-298.4	-646.2	1.45	-1.08	-0.97
15,414.0	89.60	358.80	12,352.9	3,316.1	-297.5	-655.5	4.29	-2.13	-3.72
15,601.0	91.40	358.60	12,351.3	3,503.1	-301.7	-680.0	0.97	0.96	-0.11
15,694.0	90.90	358.90	12,349.4	3,596.0	-303.7	-692.1	0.63	-0.54	0.32
15,788.0	90.60	359.70	12,348.2	3,690.0	-304.9	-703.5	0.91	-0.32	0.85
15,881.0	89.80	0.00	12,347.9	3,783.0	-305.1	-713.8	0.92	-0.86	0.32
15,975.0	91.50	358.10	12,346.8	3,877.0	-306.7	-725.5	2.71	1.81	-2.02
16,068.0	91.80	359.70	12,344.1	3,969.9	-308.5	-737.4	1.75	0.32	1.72
16,161.0	91.30	359.50	12,341.6	4,062.9	-309.1	-748.1	0.58	-0.54	-0.22
16,255.0	90.30	358.80	12,340.3	4,156.9	-310.5	-759.7	1.30	-1.06	-0.74
16,348.0	89.80	358.40	12,340.2	4,249.8	-312.8	-772.0	0.69	-0.54	-0.43
16,441.0	91.30	357.30	12,339.3	4,342.7	-316.3	-785.6	2.00	1.61	-1.18

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Salado Draw 10 W0PA Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Site:	Section 15-10-26S-33E Salado Draw W0PA Fed Com 3H	MD Reference:	3325 + 27 @ 3352.0usft (Patterson 242)
Well:	Salado Draw 10 W0PA Fed Com #3H	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)
16,534.0	89.70	357.00	12,338.5	4,435.6	-320.9	-800.3	1.75	-1.72	-0.32
16,721.0	92.70	355.70	12,334.6	4,622.2	-332.8	-832.3	1.75	1.60	-0.70
16,815.0	92.20	355.90	12,330.6	4,715.8	-339.7	-849.3	0.57	-0.53	0.21
16,909.0	91.90	355.70	12,327.2	4,809.5	-346.6	-866.3	0.38	-0.32	-0.21
17,002.0	90.80	355.00	12,325.0	4,902.2	-354.1	-883.9	1.40	-1.18	-0.75
17,096.0	90.10	354.80	12,324.3	4,995.8	-362.5	-902.4	0.77	-0.74	-0.21
17,189.0	89.20	354.10	12,324.9	5,088.4	-371.4	-921.3	1.23	-0.97	-0.75
17,237.0	88.90	354.50	12,325.6	5,136.1	-376.2	-931.3	1.04	-0.63	0.83
17,290.0	88.90	354.50	12,326.7	5,188.9	-381.3	-942.0	0.00	0.00	0.00

17290' MD Projected to Bit - PBHL Salado Draw 10 W0PA Fed Com 3H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,290.0	12,326.7	5,188.9	-381.3	17290' MD Projected to Bit