



June 7, 2018

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

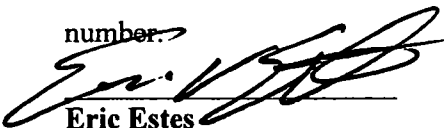
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Lindale 24 25 W1AH Fed #2H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44714

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>
Jimmy Walker	Original Hole	1,045ft. to 18,766ft.	04-08-18 to 05-08-18	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\Lindale 24 25 W1HA Federal #2HM181045

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



June 7, 2018

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 April 8, 2018, through May 8, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,045 feet to a depth of 18,766 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 Lindale 24 25 W1HA Federal #2H well, API # **30-015-44714** in Eddy 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.



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 Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 24_25-26S-30E Lindale 24_25 W1AH Fed 2H		
Site Position:		Northing:	376,775.70 usft
From: Map		Easting:	698,204.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 5.373 N
		Longitude:	103° 49' 37.571 W
		Grid Convergence:	0.27 °

Well	Lindale 24_25 W1AH Fed 2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 2' 5.373 N
		Longitude:	103° 49' 37.571 W
		Ground Level:	3,182.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	2/26/2018	6.98
			Dip Angle (°)
			59.84
			Field Strength (nT)
			47,728.90539896

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			142.51



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program Date 5/9/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
210.0	895.0	Rig Survey (Original Hole)	MWD	MWD v3:standard declination
1,045.0	18,820.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (")	Tie-In
895.0	1.40	61.10	894.9	9.6	4.3	10.6	24.31	
1,045.0	1.70	70.60	1,044.8	11.2	8.0	13.8	35.59	
1,109.0	1.10	100.80	1,108.8	11.4	9.5	14.9	39.83	
1,172.0	0.70	137.50	1,171.8	11.0	10.4	15.2	43.27	
1,235.0	0.70	135.60	1,234.8	10.5	10.9	15.1	46.18	
1,299.0	0.80	134.20	1,298.8	9.9	11.5	15.2	49.34	
1,362.0	1.00	135.80	1,361.8	9.2	12.2	15.3	53.03	
1,426.0	1.10	187.90	1,425.8	8.2	12.5	15.0	56.82	
1,489.0	1.60	222.20	1,488.8	6.9	11.9	13.7	59.65	
1,552.0	1.80	225.40	1,551.7	5.6	10.6	12.0	62.08	
1,616.0	1.10	233.50	1,615.7	4.5	9.4	10.4	64.18	
1,679.0	0.40	266.30	1,678.7	4.2	8.6	9.6	64.36	
1,743.0	0.50	253.00	1,742.7	4.1	8.2	9.1	63.57	
1,807.0	0.80	235.80	1,806.7	3.7	7.5	8.4	63.67	
1,904.0	1.00	220.80	1,903.7	2.7	6.4	7.0	67.14	
1,999.0	1.10	211.70	1,998.7	1.3	5.4	5.5	76.46	
2,094.0	0.90	205.20	2,093.7	-0.2	4.6	4.6	91.92	
2,189.0	0.70	194.40	2,188.7	-1.4	4.1	4.4	108.63	
2,285.0	0.20	58.00	2,284.7	-1.9	4.1	4.5	114.40	
2,360.0	0.40	330.90	2,379.7	-1.5	4.1	4.4	110.00	
2,475.0	0.10	17.50	2,474.7	-1.1	4.0	4.1	105.82	



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
2,570.0	0.50	132.00	2,569.7	-1.3	4.3	4.5	107.10
2,668.0	1.10	145.20	2,665.6	-2.4	5.1	5.7	114.67
2,761.0	1.20	214.00	2,760.6	-3.9	5.1	6.4	127.64
2,856.0	0.60	311.70	2,855.6	-4.4	4.2	6.1	136.69
2,951.0	0.10	35.30	2,950.6	-4.0	3.8	5.6	136.30
3,045.0	0.60	149.90	3,044.6	-4.4	4.1	6.0	136.64
3,141.0	0.60	134.00	3,140.6	-5.2	4.8	7.0	137.39
3,237.0	0.60	26.30	3,236.6	-5.1	5.3	7.4	133.51
3,331.0	0.40	43.90	3,330.6	-4.4	5.8	7.3	127.20
3,426.0	0.40	120.40	3,425.6	-4.3	6.3	7.6	124.43
3,521.0	1.00	249.60	3,520.6	-4.8	5.8	7.5	129.42
3,616.0	1.10	230.20	3,615.6	-5.7	4.3	7.1	142.51
3,711.0	0.90	229.10	3,710.6	-6.7	3.1	7.4	155.46
3,735.0	1.00	230.10	3,734.6	-7.0	2.8	7.5	158.38
3,840.0	1.10	242.00	3,839.5	-8.0	1.2	8.1	171.70
3,935.0	0.80	294.60	3,934.5	-8.2	-0.2	8.2	181.64
4,029.0	1.90	329.00	4,028.5	-6.6	-1.6	6.8	193.94
4,125.0	1.80	333.00	4,124.5	-3.9	-3.1	5.0	218.99
4,220.0	2.40	333.00	4,219.4	-0.8	-4.7	4.8	260.67
4,315.0	2.10	335.80	4,314.3	2.6	-6.3	6.8	292.20
4,412.0	2.20	333.30	4,411.3	5.9	-7.9	9.8	306.61
4,506.0	2.00	335.40	4,505.2	9.0	-9.4	13.0	313.69
4,602.0	2.00	331.70	4,601.1	12.0	-10.9	16.2	317.72
4,697.0	1.80	329.40	4,696.1	14.7	-12.4	19.3	319.81
4,792.0	1.90	346.30	4,791.0	17.5	-13.6	22.2	322.27
4,887.0	2.10	344.50	4,886.0	20.7	-14.4	25.2	325.22
4,982.0	2.00	341.50	4,980.9	24.0	-15.4	28.5	327.31



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,077.0	2.20	6.80	5,075.8	27.4	-15.7	31.6	330.16
5,173.0	2.30	3.60	5,171.8	31.1	-15.4	34.7	333.73
5,267.0	2.50	3.10	5,265.7	35.1	-15.1	38.2	336.65
5,362.0	2.40	359.90	5,360.6	39.1	-15.0	41.9	338.98
5,457.0	2.20	358.30	5,455.5	42.9	-15.1	45.5	340.64
5,552.0	2.00	353.70	5,550.5	46.4	-15.3	48.9	341.73
5,648.0	1.90	351.90	5,646.4	49.6	-15.7	52.1	342.42
5,743.0	1.80	353.40	5,741.4	52.7	-16.1	55.1	342.98
5,838.0	1.80	349.00	5,836.3	55.6	-16.6	58.0	343.40
5,933.0	1.60	354.00	5,931.3	58.4	-17.0	60.8	343.77
6,028.0	1.50	358.90	6,026.2	61.0	-17.2	63.3	344.28
6,124.0	1.60	6.60	6,122.2	63.6	-17.0	65.8	345.00
6,219.0	1.80	14.40	6,217.2	66.3	-16.5	68.3	346.02
6,314.0	1.70	339.40	6,312.1	69.1	-16.8	71.1	346.46
6,410.0	1.70	337.60	6,408.1	71.7	-17.7	73.9	346.16
6,505.0	1.80	344.90	6,503.0	74.5	-18.6	76.8	345.97
6,599.0	1.90	333.40	6,597.0	77.3	-19.7	79.8	345.71
6,695.0	1.80	352.90	6,692.9	80.2	-20.6	82.8	345.61
6,790.0	1.50	0.90	6,787.9	82.9	-20.7	85.5	345.95
6,885.0	1.40	3.30	6,882.9	85.3	-20.7	87.8	346.39
6,980.0	1.20	352.10	6,977.8	87.5	-20.7	89.9	346.67
7,074.0	1.40	354.20	7,071.8	89.6	-21.0	92.0	346.82
7,168.0	1.30	11.70	7,165.8	91.8	-20.9	94.1	347.18
7,263.0	1.30	12.00	7,260.8	93.9	-20.4	96.1	347.72
7,358.0	0.90	351.60	7,355.7	95.7	-20.3	97.8	348.01
7,453.0	1.10	334.50	7,450.7	97.2	-20.8	99.5	347.91
7,548.0	1.00	336.80	7,545.7	98.8	-21.5	101.2	347.70



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
7,642.0	0.90	354.40	7,639.7	100.3	-21.9	102.7	347.66
7,738.0	0.90	306.50	7,735.7	101.5	-22.6	104.0	347.44
7,833.0	1.70	280.00	7,830.7	102.2	-24.6	105.1	346.46
7,927.0	2.50	278.50	7,924.6	102.8	-28.0	106.5	344.75
8,023.0	2.30	294.70	8,020.5	103.9	-31.8	108.6	342.96
8,118.0	1.80	319.00	8,115.5	105.8	-34.5	111.3	341.92
8,213.0	1.50	336.00	8,210.4	108.1	-36.0	113.9	341.56
8,308.0	2.50	334.10	8,305.4	111.1	-37.4	117.2	341.37
8,403.0	1.40	357.90	8,400.3	114.1	-38.4	120.4	341.40
8,498.0	1.10	308.40	8,495.3	115.8	-39.1	122.2	341.32
8,594.0	2.00	28.20	8,591.3	117.8	-39.1	124.2	341.66
8,689.0	2.00	51.30	8,686.2	120.3	-37.0	125.9	342.91
8,784.0	1.60	67.40	8,781.2	121.9	-34.5	126.7	344.21
8,878.0	0.90	61.80	8,875.1	122.7	-32.6	127.0	345.12
8,972.0	0.70	328.20	8,969.1	123.6	-32.3	127.7	345.37
9,068.0	1.10	236.20	9,065.1	123.6	-33.3	128.0	344.90
9,163.0	1.10	247.70	9,160.1	122.7	-34.9	127.6	344.11
9,258.0	1.50	348.00	9,255.1	123.6	-36.0	128.7	343.74
9,353.0	1.80	18.90	9,350.1	126.2	-35.8	131.2	344.16
9,449.0	2.30	12.10	9,446.0	129.5	-34.9	134.2	344.91
9,544.0	1.90	4.60	9,540.9	133.0	-34.4	137.3	345.49
9,640.0	1.80	11.30	9,636.9	136.0	-34.0	140.2	345.97
9,734.0	1.20	14.40	9,730.8	138.4	-33.4	142.4	346.42
9,829.0	0.60	64.70	9,825.8	139.6	-32.7	143.4	346.80
9,924.0	1.70	49.40	9,920.8	140.7	-31.2	144.2	347.49
10,019.0	1.60	53.30	10,015.8	142.4	-29.1	145.4	348.46
10,114.0	2.10	20.30	10,110.7	144.9	-27.4	147.4	349.28



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,208.0	2.40	354.50	10,204.7	148.4	-27.0	150.9	349.68
10,304.0	1.80	346.50	10,300.6	151.9	-27.6	154.4	349.72
10,398.0	1.90	327.40	10,394.5	154.7	-28.7	157.3	349.47
10,493.0	1.70	320.00	10,489.5	157.1	-30.5	160.0	349.01
10,587.0	1.80	316.30	10,583.5	159.2	-32.4	162.5	348.49
10,682.0	1.10	323.20	10,678.4	161.0	-34.0	164.6	348.08
10,753.7	0.92	299.91	10,750.2	161.8	-34.9	165.6	347.83
B.B. Lindale 24_25 W1AH Fed 2H							
10,777.0	0.90	290.90	10,773.4	162.0	-35.2	165.8	347.73
10,809.0	0.80	300.50	10,805.4	162.2	-35.7	166.1	347.60
10,840.0	0.60	287.90	10,836.4	162.4	-36.0	166.3	347.50
10,872.0	1.80	151.50	10,868.4	162.0	-35.9	165.9	347.49
10,904.0	4.30	145.20	10,900.4	160.5	-35.0	164.3	347.70
10,936.0	8.20	156.90	10,932.2	157.5	-33.4	161.0	348.02
10,968.0	11.90	166.80	10,963.7	152.1	-31.8	155.4	348.20
10,999.0	15.10	171.90	10,993.8	145.0	-30.5	148.2	348.13
11,031.0	18.30	179.30	11,024.5	135.9	-29.8	139.1	347.82
11,063.0	21.30	184.00	11,054.6	125.1	-30.2	128.6	346.44
11,095.0	23.60	184.70	11,084.1	112.9	-31.1	117.1	344.60
11,126.0	26.90	184.60	11,112.2	99.7	-32.2	104.8	342.12
11,158.0	29.60	187.70	11,140.4	84.6	-33.8	91.1	338.23
11,190.0	34.00	186.60	11,167.5	67.9	-35.9	76.8	332.14
11,222.0	38.80	183.50	11,193.3	49.0	-37.5	61.7	322.55
11,253.0	42.00	182.20	11,216.9	28.9	-38.5	48.2	306.92
11,285.0	43.80	182.50	11,240.3	7.2	-39.4	40.1	280.33
11,317.0	46.50	184.80	11,262.9	-15.5	-40.9	43.7	249.29
11,348.0	50.70	186.10	11,283.4	-38.6	-43.1	57.9	228.15



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,380.0	55.60	184.80	11,302.6	-64.1	-45.5	78.6	215.39
11,411.0	59.90	182.60	11,319.1	-90.2	-47.2	101.8	207.61
11,442.0	61.90	181.40	11,334.2	-117.3	-48.1	126.8	202.31
11,474.0	64.40	180.50	11,348.7	-145.8	-48.6	153.7	198.43
11,506.0	67.50	180.50	11,361.7	-175.1	-48.9	181.8	195.60
11,537.0	70.30	180.70	11,372.9	-204.0	-49.2	209.8	193.55
11,555.0	71.50	180.60	11,378.7	-221.0	-49.4	226.4	192.59
11,584.0	73.70	179.80	11,387.4	-248.7	-49.5	253.5	191.25
11,616.0	76.90	180.20	11,395.5	-279.6	-49.5	283.9	190.03
11,648.0	78.50	180.40	11,402.4	-310.9	-49.6	314.8	189.07
11,679.0	79.90	180.60	11,408.2	-341.3	-49.9	344.9	188.32
11,711.0	81.20	179.90	11,413.4	-372.9	-50.0	376.2	187.64
11,743.0	82.90	179.50	11,417.8	-404.6	-49.9	407.6	187.03
11,775.0	84.40	179.50	11,421.4	-436.4	-49.6	439.2	186.48
11,806.0	85.30	179.20	11,424.2	-467.2	-49.2	469.8	186.01
11,838.0	86.80	178.90	11,426.4	-499.2	-48.7	501.5	185.57
11,870.0	88.60	177.90	11,427.7	-531.1	-47.8	533.3	185.14
11,909.6	88.89	177.86	11,428.5	-570.7	-46.3	572.6	184.64
LP Lindale 24_25 W1AH Fed 2H							
11,965.0	89.30	177.80	11,429.4	-626.0	-44.2	627.6	184.04
12,060.0	90.20	179.40	11,429.8	-721.0	-41.9	722.2	183.33
12,156.0	90.60	178.90	11,429.1	-817.0	-40.5	818.0	182.84
12,251.0	89.20	178.10	11,429.3	-912.0	-38.0	912.8	182.39
12,346.0	91.10	180.50	11,429.1	-1,006.9	-36.9	1,007.6	182.10
12,441.0	92.30	181.30	11,426.2	-1,101.9	-38.3	1,102.6	181.99
12,537.0	91.50	182.30	11,423.1	-1,197.8	-41.4	1,198.5	181.98
12,632.0	91.20	181.30	11,420.8	-1,292.7	-44.3	1,293.5	181.96



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,727.0	88.30	180.50	11,421.2	-1,387.7	-45.8	1,388.4	181.89
12,822.0	88.50	180.30	11,425.5	-1,482.6	-46.5	1,483.3	181.80
12,917.0	87.40	181.70	11,430.6	-1,577.4	-48.2	1,578.2	181.75
13,013.0	89.40	182.60	11,433.3	-1,673.3	-51.8	1,674.1	181.77
13,108.0	88.60	182.80	11,434.9	-1,768.2	-56.2	1,769.1	181.82
13,203.0	90.40	181.30	11,435.8	-1,863.1	-59.6	1,864.1	181.83
13,298.0	90.00	180.80	11,435.4	-1,958.1	-61.4	1,959.1	181.80
13,393.0	88.10	180.60	11,437.0	-2,053.1	-62.5	2,054.0	181.74
13,489.0	91.40	180.10	11,437.4	-2,149.1	-63.1	2,150.0	181.68
13,584.0	91.30	181.20	11,435.2	-2,244.0	-64.2	2,245.0	181.64
13,679.0	91.30	181.80	11,433.0	-2,339.0	-66.7	2,339.9	181.63
13,774.0	90.90	181.30	11,431.2	-2,433.9	-69.2	2,434.9	181.63
13,870.0	90.60	180.30	11,429.9	-2,529.9	-70.6	2,530.9	181.60
13,972.0	87.30	177.30	11,431.8	-2,631.8	-68.5	2,632.7	181.49
14,067.0	88.70	177.30	11,435.1	-2,726.7	-64.0	2,727.4	181.34
14,162.0	90.40	178.30	11,435.9	-2,821.6	-60.3	2,822.2	181.22
14,258.0	89.30	178.20	11,436.1	-2,917.6	-57.4	2,918.1	181.13
14,352.0	89.40	178.20	11,437.2	-3,011.5	-54.4	3,012.0	181.04
14,447.0	90.10	178.00	11,437.6	-3,106.4	-51.3	3,106.9	180.95
14,542.0	92.10	178.80	11,435.8	-3,201.4	-48.6	3,201.8	180.87
14,638.0	91.70	178.80	11,432.6	-3,297.3	-46.6	3,297.6	180.81
14,733.0	91.70	178.40	11,429.8	-3,392.2	-44.3	3,392.5	180.75
14,828.0	90.50	178.20	11,428.0	-3,487.2	-41.5	3,487.4	180.68
14,923.0	92.80	179.00	11,425.2	-3,582.1	-39.2	3,582.3	180.63
15,019.0	89.90	178.00	11,423.0	-3,678.0	-36.7	3,678.2	180.57
15,114.0	91.30	179.30	11,422.0	-3,773.0	-34.4	3,773.2	180.52
15,209.0	91.20	179.20	11,419.9	-3,868.0	-33.2	3,868.1	180.49



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,304.0	90.60	179.20	11,418.4	-3,962.9	-31.9	3,983.1	180.46
15,400.0	90.50	179.40	11,417.5	-4,058.9	-30.7	4,059.0	180.43
15,495.0	89.40	179.90	11,417.6	-4,153.9	-30.1	4,154.0	180.42
15,590.0	88.10	179.40	11,419.6	-4,248.9	-29.5	4,249.0	180.40
15,685.0	89.60	179.60	11,421.5	-4,343.9	-28.7	4,344.0	180.38
15,780.0	91.70	180.60	11,420.5	-4,438.9	-28.9	4,439.0	180.37
15,876.0	91.30	181.10	11,418.0	-4,534.8	-30.3	4,534.9	180.38
15,971.0	88.30	179.40	11,418.3	-4,629.8	-30.7	4,629.9	180.38
16,066.0	90.80	181.00	11,419.0	-4,724.8	-31.0	4,724.9	180.38
16,161.0	92.20	182.20	11,416.5	-4,819.7	-33.7	4,819.8	180.40
16,256.0	92.60	183.80	11,412.6	-4,914.5	-38.7	4,914.7	180.45
16,351.0	90.90	185.00	11,409.7	-5,009.2	-45.9	5,009.4	180.53
16,446.0	90.60	182.80	11,408.4	-5,103.9	-52.4	5,104.2	180.59
16,541.0	87.50	181.40	11,410.0	-5,198.8	-55.9	5,199.1	180.62
16,636.0	92.60	183.40	11,409.9	-5,293.7	-59.9	5,294.1	180.65
16,734.0	90.30	182.70	11,407.4	-5,391.5	-65.1	5,391.9	180.69
16,828.0	91.00	184.70	11,406.4	-5,485.3	-71.1	5,485.8	180.74
16,923.0	88.50	182.10	11,406.8	-5,580.2	-76.8	5,580.7	180.79
17,018.0	88.00	181.30	11,409.7	-5,675.1	-79.6	5,675.6	180.80
17,113.0	87.20	182.20	11,413.7	-5,769.9	-82.5	5,770.5	180.82
17,208.0	86.20	180.90	11,419.1	-5,864.7	-85.0	5,865.4	180.83
17,303.0	87.30	179.10	11,424.5	-5,959.6	-85.0	5,960.2	180.82
17,398.0	87.30	178.20	11,429.0	-6,054.5	-82.8	6,055.0	180.78
17,493.0	89.10	177.20	11,432.0	-6,149.3	-79.0	6,149.8	180.74
17,588.0	89.20	175.60	11,433.4	-6,244.1	-73.0	6,244.6	180.67
17,683.0	89.30	174.60	11,434.6	-6,338.8	-64.9	6,339.1	180.59
17,779.0	94.90	174.90	11,431.1	-6,434.3	-56.1	6,434.5	180.50



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fe
Well: Lindale 24_25 W1AH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 2H
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,874.0	95.00	175.50	11,422.9	-6,528.6	-48.2	6,528.8	180.42
17,969.0	96.00	178.30	11,413.8	-6,623.0	-43.1	6,623.1	180.37
18,064.0	93.30	179.30	11,406.1	-6,717.6	-41.1	6,717.8	180.35
18,159.0	93.20	181.00	11,400.7	-6,812.5	-41.4	6,812.6	180.35
18,254.0	90.10	179.70	11,398.0	-6,907.4	-42.0	6,907.6	180.35
18,349.0	90.10	180.00	11,397.8	-7,002.4	-41.7	7,002.6	180.34
18,444.0	88.90	180.20	11,398.7	-7,097.4	-41.9	7,097.6	180.34
18,539.0	88.90	180.60	11,400.5	-7,192.4	-42.5	7,192.5	180.34
18,634.0	85.60	179.50	11,405.0	-7,287.3	-42.6	7,287.4	180.34
18,729.0	83.50	179.30	11,414.1	-7,381.8	-41.6	7,382.0	180.32
18,766.0	83.60	179.50	11,418.2	-7,418.6	-41.2	7,418.7	180.32
18,820.0	83.60	179.50	11,424.2	-7,472.3	-40.8	7,472.4	180.31

18820.0' MD Projected to Bit - PBHL Lindale 24_25 W1AH Fed 2H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,820.0	11,424.2	-7,472.3	-40.8	18820.0' MD Projected to Bit