

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.20°

DEC 19 2019
RECEIVED

GEODETTIC ZONE: New Mexico Eastern Zone
3697 + 27 @ 3724.0usft (Patterson 562)

GROUND ELEVATION: 3697.0

GROUND ELEVATION: 5057.0

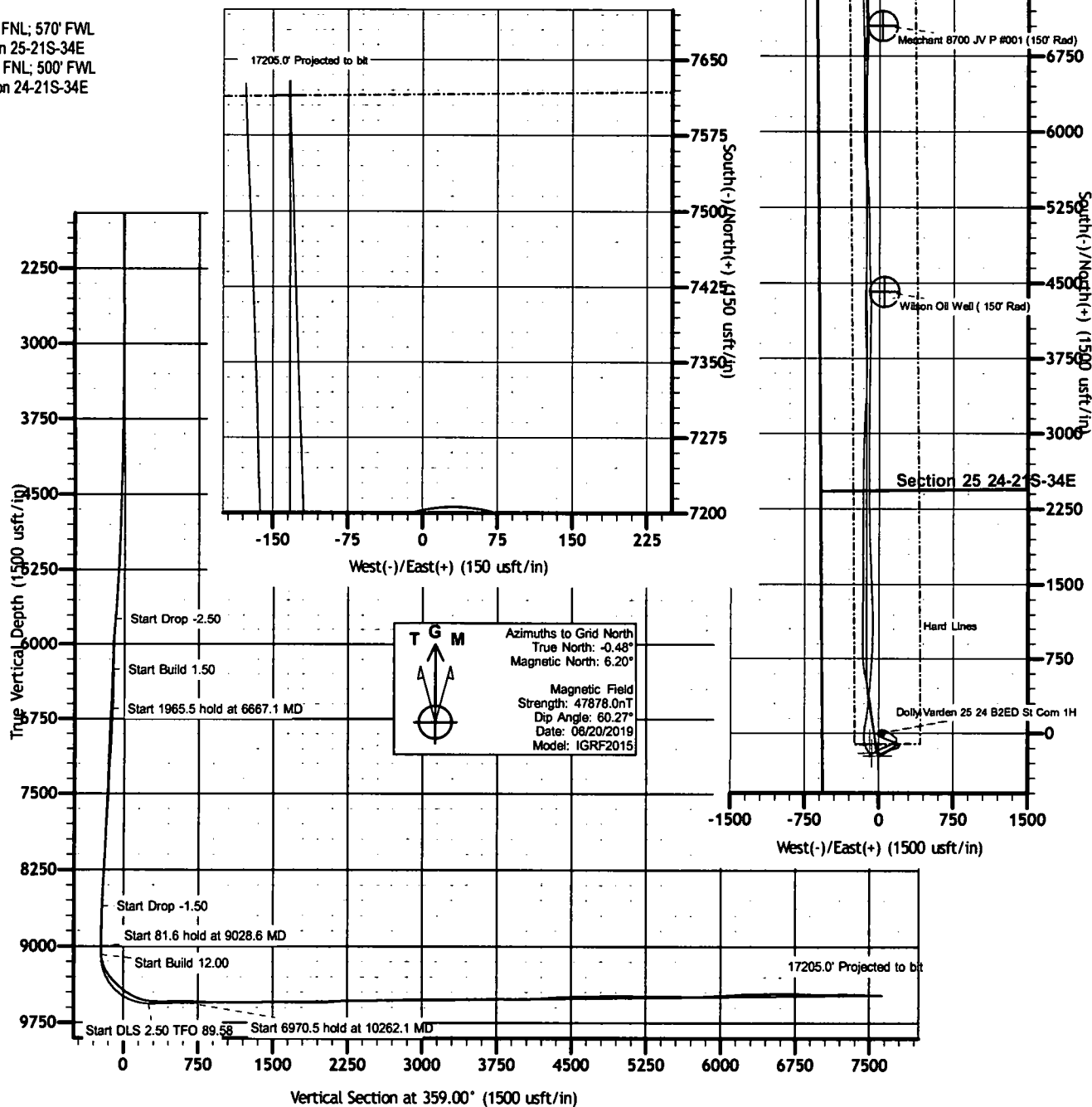
thing	Easting	Latitude	Height
1	1000000	1000000	1000000
2	1000000	1000000	1000000
3	1000000	1000000	1000000
4	1000000	1000000	1000000
5	1000000	1000000	1000000
6	1000000	1000000	1000000
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70	1000000	1000000	1000000
71	1000000	1000000	1000000
72	1000000	1000000	1000000
73	1000000	1000000	1000000
74	1000000	1000000	1000000
75	1000000	1000000	

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	528823.10	819913.50	32° 27' 2.019 N	103° 25' 48.858 W

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target
1	5755.0	12.90	110.20	5742.7	-87.2	154.9	0.00	0.00	-89.9	
2	6271.0	0.00	0.00	6254.4	-107.2	209.2	2.50	180.00	-110.8	
3	6667.1	5.94	241.19	6649.7	-117.1	191.2	1.50	241.19	-120.4	
4	8632.6	5.94	241.19	8604.6	-215.1	13.0	0.00	0.00	-215.3	
5	9028.6	0.00	0.00	9000.0	-225.0	-5.0	1.50	180.00	-224.9	BB Dolly Varden B1ED
6	9110.2	0.00	0.00	9081.8	-225.0	-5.0	0.00	0.00	-224.9	
7	9865.7	90.66	350.00	9559.0	250.6	-88.9	12.00	350.00	252.1	
8	10262.6	90.66	359.92	9554.4	645.4	-123.1	2.50	89.94	647.5	
9	17232.6	90.66	359.92	9474.0	7615.0	-133.1	0.00	0.00	7616.2	PBHL Dolly Varden 25 24 B1ED St Com 2H

SHL: 2435' FNL; 570' FWL
Section 25-21S-34E
PBHL: 100' FNL; 500' FWL
Section 24-21S-34E





Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 25 24-21S-34E Dolly Varden 25 24

Dolly Varden 25 24 B1ED St Com 2H

Original Hole

Design: Original Hole

Standard Survey Report

23 October, 2019





Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Dolly Varden 25 24 B1ED St Com 2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3697 + 27 @ 3724.0usft (Patterso 562)
Site:	Section 25 24-21S-34E Dolly Varden 25 24	MD Reference:	3697 + 27 @ 3724.0usft (Patterso 562)
Well:	Dolly Varden 25 24 B1ED St Com 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.15 Single User Db

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

Site		Section 25 24-21S-34E Dolly Varden 25 24			
Site Position:		Northing:	528,823.40 usft	Latitude:	32° 27' 2.019 N
From:	Map	Easting:	819,943.50 usft	Longitude:	103° 25' 48.508 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.48 °

Well	Dolly Varden 25 24 B1ED St Com 2H					
Well Position	+N/-S	0.0 usft	Northing:	528,823.10 usft	Latitude:	32° 27' 2.019 N
	+E/-W	0.0 usft	Easting:	819,913.50 usft	Longitude:	103° 25' 48.858 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,697.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	06/20/19	6.68	60.27	47,878.00187089

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	358.67

Survey Program	Date	10/23/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
96.1	17,205.0	Stryker Survey (Original Hole)	MWD	MWD v3:standard declination

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buidl 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	
96.1	0.70	39.86	96.1	0.5	0.4	0.4	0.73	0.73	0.00	
278.0	0.60	79.72	278.0	1.5	2.0	1.4	0.25	-0.05	21.91	
460.6	0.60	113.72	460.6	1.3	3.8	1.2	0.19	0.00	18.62	
644.7	0.90	125.72	644.7	0.0	5.9	-0.1	0.18	0.16	6.52	
835.0	0.40	111.72	834.9	-1.1	7.7	-1.3	0.27	-0.26	-7.36	
1,024.0	0.40	118.72	1,023.9	-1.7	8.9	-1.9	0.03	0.00	3.70	
1,214.0	0.20	158.72	1,213.9	-2.3	9.6	-2.5	0.15	-0.11	21.05	
1,404.0	0.20	118.72	1,403.9	-2.7	10.0	-3.0	0.07	0.00	-21.05	
1,594.0	0.50	63.72	1,593.9	-2.5	11.1	-2.8	0.22	0.16	-28.95	



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.15 Single User Db

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)
1,777.0	0.50	76.72	1,776.9	-2.0	12.6	-2.3	0.06	0.00	7.10
First Stryker Surveys									
1,840.0	0.10	63.20	1,839.9	-1.9	12.9	-2.2	0.64	-0.63	-21.46
1,934.0	1.20	266.50	1,933.9	-1.9	12.0	-2.2	1.37	1.17	-166.70
2,029.0	1.30	273.70	2,028.9	-1.9	9.9	-2.2	0.20	0.11	7.58
2,124.0	2.20	276.90	2,123.9	-1.6	7.0	-1.8	0.95	0.95	3.37
2,219.0	2.50	279.40	2,218.8	-1.1	3.2	-1.2	0.33	0.32	2.63
2,409.0	3.40	279.00	2,408.5	0.5	-6.5	0.6	0.47	0.47	-0.21
2,598.0	2.70	272.00	2,597.3	1.5	-16.5	1.9	0.42	-0.37	-3.70
2,789.0	0.90	235.10	2,788.2	0.8	-22.2	1.3	1.07	-0.94	-19.32
2,979.0	0.70	212.70	2,978.1	-1.0	-24.1	-0.5	0.19	-0.11	-11.79
3,170.0	1.70	108.40	3,169.1	-2.9	-22.0	-2.4	1.04	0.52	-54.61
3,360.0	1.50	118.40	3,359.0	-5.0	-17.1	-4.6	0.18	-0.11	5.26
3,550.0	1.80	116.00	3,549.0	-7.5	-12.3	-7.2	0.16	0.16	-1.26
3,739.0	1.70	124.40	3,737.9	-10.3	-7.3	-10.2	0.15	-0.05	4.44
3,929.0	2.20	123.80	3,927.8	-14.0	-1.9	-13.9	0.26	0.26	-0.32
4,119.0	2.20	127.90	4,117.6	-18.2	4.0	-18.3	0.08	0.00	2.16
4,309.0	2.80	123.60	4,307.4	-23.0	10.7	-23.3	0.33	0.32	-2.26
4,500.0	3.20	123.20	4,498.2	-28.5	19.1	-29.0	0.21	0.21	-0.21
4,689.0	3.70	122.90	4,686.8	-34.7	28.6	-35.4	0.26	0.26	-0.16
4,879.0	4.20	118.90	4,876.4	-41.4	39.8	-42.4	0.30	0.26	-2.11
5,070.0	5.50	111.00	5,066.7	-48.1	54.5	-49.4	0.76	0.68	-4.14
5,260.0	7.60	109.00	5,255.4	-55.5	74.9	-57.2	1.11	1.11	-1.05
5,451.0	9.20	112.00	5,444.4	-65.3	101.0	-67.6	0.87	0.84	1.57
5,641.0	11.50	113.00	5,631.3	-78.4	132.5	-81.4	1.21	1.21	0.53
5,755.0	12.90	110.20	5,742.7	-87.2	154.9	-90.8	1.33	1.23	-2.46
5,827.0	11.10	115.50	5,813.1	-93.0	168.7	-96.9	2.93	-2.50	7.36
5,923.0	7.90	118.80	5,907.8	-100.1	182.8	-104.4	3.38	-3.33	3.44
6,018.0	4.90	125.80	6,002.2	-105.7	191.9	-110.1	3.26	-3.16	7.37
6,114.0	2.80	117.70	6,098.0	-109.1	197.3	-113.7	2.25	-2.19	-8.44
6,208.0	2.80	108.90	6,191.9	-111.0	201.5	-115.6	0.46	0.00	-9.36
6,304.0	2.90	109.90	6,287.8	-112.5	206.0	-117.3	0.12	0.10	1.04
6,399.0	2.50	145.90	6,382.7	-115.1	209.4	-119.9	1.80	-0.42	37.89
6,493.0	2.20	173.60	6,476.6	-118.6	210.7	-123.4	1.24	-0.32	29.47
6,589.0	2.10	176.80	6,572.5	-122.2	211.0	-127.0	0.16	-0.10	3.33
6,684.0	4.60	220.00	6,667.4	-126.8	208.7	-131.6	3.57	2.63	45.47
6,778.0	6.50	231.00	6,760.9	-133.0	202.1	-137.7	2.31	2.02	11.70
6,873.0	6.20	232.20	6,855.3	-139.6	193.9	-144.1	0.35	-0.32	1.26
7,063.0	6.60	259.90	7,044.2	-147.8	175.0	-151.8	1.62	0.21	14.58
7,252.0	5.90	257.00	7,232.1	-151.9	154.9	-155.4	0.41	-0.37	-1.53
7,442.0	6.20	243.60	7,421.0	-158.6	136.2	-161.8	0.76	0.16	-7.05
7,632.0	5.70	247.60	7,610.0	-166.8	118.3	-169.5	0.34	-0.26	2.11
7,822.0	5.50	243.50	7,799.1	-174.4	101.4	-176.8	0.24	-0.11	-2.16
8,012.0	5.00	246.50	7,988.3	-181.8	85.6	-183.8	0.30	-0.26	1.58



Stryker Energy Directional Services

Survey Report



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.15 Single User Db

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)
8,203.0	5.60	234.70	8,178.5	-190.5	70.4	-192.1	0.65	0.31	-6.18
8,394.0	6.10	235.90	8,368.5	-201.6	54.4	-202.8	0.27	0.26	0.63
8,583.0	5.30	240.50	8,556.5	-211.5	38.5	-212.4	0.49	-0.42	2.43
8,774.0	3.30	235.90	8,747.0	-218.9	26.3	-219.5	1.06	-1.05	-2.41
8,964.0	3.40	229.30	8,936.7	-225.7	17.5	-226.0	0.21	0.05	-3.47
9,083.0	5.50	287.00	9,055.4	-226.3	9.3	-226.5	3.92	1.76	48.49
9,130.0	12.00	317.90	9,101.8	-222.0	3.9	-222.1	16.60	13.83	65.74
9,225.0	23.50	332.20	9,192.2	-197.9	-11.6	-197.5	12.86	12.11	15.05
9,274.0	30.80	341.80	9,235.8	-177.3	-20.1	-176.7	17.33	14.90	19.59
9,321.0	36.10	348.90	9,275.0	-152.2	-26.6	-151.6	14.00	11.28	15.11
9,369.0	41.50	351.80	9,312.4	-122.6	-31.5	-121.8	11.87	11.25	6.04
9,416.0	45.10	353.10	9,346.6	-90.6	-35.8	-89.8	7.89	7.66	2.77
9,463.0	48.30	354.60	9,378.8	-56.6	-39.4	-55.7	7.19	6.81	3.19
9,511.0	50.90	354.60	9,409.9	-20.2	-42.9	-19.2	5.42	5.42	0.00
9,559.0	55.10	353.90	9,438.8	17.9	-46.7	19.0	8.83	8.75	-1.46
9,606.0	59.10	352.50	9,464.3	57.1	-51.4	58.3	8.87	8.51	-2.98
9,653.0	63.00	351.30	9,487.1	97.8	-57.2	99.1	8.59	8.30	-2.55
9,700.0	67.00	351.60	9,506.9	139.9	-63.5	141.3	8.53	8.51	0.64
9,748.0	74.70	352.10	9,522.7	184.8	-69.9	186.3	16.07	16.04	1.04
9,795.0	80.20	351.80	9,532.9	230.2	-76.4	231.9	11.72	11.70	-0.64
9,840.0	84.60	351.30	9,538.8	274.3	-82.9	276.1	9.84	9.78	-1.11
9,968.0	93.40	350.70	9,541.1	400.5	-102.9	402.8	6.89	6.88	-0.47
10,062.0	89.70	349.60	9,538.5	493.1	-119.0	495.7	4.11	-3.94	-1.17
10,094.0	90.00	349.40	9,538.6	524.6	-124.8	527.3	1.13	0.94	-0.63
10,125.0	91.30	350.00	9,538.2	555.1	-130.4	558.0	4.62	4.19	1.94
10,157.0	91.10	349.50	9,537.6	586.6	-136.1	589.6	1.68	-0.63	-1.56
10,188.0	88.20	349.50	9,537.8	617.0	-141.7	620.2	9.35	-9.35	0.00
10,220.0	87.60	349.70	9,538.9	648.5	-147.5	651.7	1.98	-1.88	0.63
10,252.0	87.40	351.90	9,540.3	680.0	-152.6	683.4	6.90	-0.63	6.88
10,347.0	87.20	356.90	9,544.8	774.5	-161.8	778.0	5.26	-0.21	5.26
10,441.0	90.50	0.00	9,546.7	868.4	-164.4	872.0	4.82	3.51	3.30
10,536.0	89.10	0.80	9,547.0	963.4	-163.7	966.9	1.70	-1.47	0.84
10,631.0	88.30	0.60	9,549.2	1,058.3	-162.6	1,061.8	0.87	-0.84	-0.21
10,726.0	90.70	0.30	9,550.0	1,153.3	-161.8	1,156.8	2.55	2.53	-0.32
10,820.0	90.70	0.00	9,548.9	1,247.3	-161.6	1,250.7	0.32	0.00	-0.32
10,915.0	91.70	1.50	9,546.9	1,342.3	-160.3	1,345.7	1.90	1.05	1.58
11,011.0	90.60	0.40	9,544.9	1,438.2	-158.7	1,441.6	1.62	-1.15	-1.15
11,106.0	90.50	359.70	9,544.0	1,533.2	-158.7	1,536.5	0.74	-0.11	-0.74
11,200.0	91.00	0.20	9,542.8	1,627.2	-158.7	1,630.5	0.75	0.53	0.53
11,295.0	88.30	357.90	9,543.4	1,722.2	-160.3	1,725.5	3.73	-2.84	-2.42
11,390.0	88.40	0.00	9,546.1	1,817.1	-162.0	1,820.4	2.21	0.11	2.21
11,485.0	89.80	359.70	9,547.6	1,912.1	-162.3	1,915.4	1.51	1.47	-0.32
11,580.0	93.20	0.70	9,545.1	2,007.1	-162.0	2,010.3	3.73	3.58	1.05



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11,674.0	93.50	359.40	9,539.6	2,100.9	-161.9	2,104.1	1.42	0.32	-1.38
11,769.0	93.00	1.50	9,534.2	2,195.8	-161.1	2,198.9	2.27	-0.53	2.21
11,863.0	90.90	0.00	9,531.1	2,289.7	-159.9	2,292.8	2.74	-2.23	-1.60
11,958.0	89.70	0.80	9,530.6	2,384.7	-159.2	2,387.7	1.52	-1.26	0.84
12,053.0	89.80	0.80	9,531.0	2,479.7	-157.9	2,482.7	0.11	0.11	0.00
12,148.0	92.00	0.70	9,529.5	2,574.6	-156.7	2,577.6	2.32	2.32	-0.11
12,243.0	91.90	0.10	9,526.2	2,669.6	-156.0	2,672.5	0.64	-0.11	-0.63
12,337.0	91.30	359.70	9,523.6	2,763.5	-156.2	2,766.4	0.77	-0.64	-0.43
12,431.0	92.30	2.20	9,520.7	2,857.5	-154.6	2,860.3	2.86	1.06	2.66
12,526.0	91.20	3.70	9,517.8	2,952.3	-149.7	2,955.0	1.96	-1.16	1.58
12,621.0	88.20	3.30	9,518.3	3,047.1	-143.9	3,049.6	3.19	-3.16	-0.42
12,717.0	89.90	2.80	9,519.9	3,143.0	-138.7	3,145.3	1.82	1.77	-0.42
12,811.0	90.70	2.60	9,519.4	3,236.8	-134.2	3,239.1	0.91	0.85	-0.32
12,905.0	92.00	2.20	9,517.1	3,330.7	-130.3	3,332.9	1.45	1.38	-0.43
13,001.0	90.20	1.80	9,515.3	3,426.7	-127.0	3,428.7	1.92	-1.88	-0.42
13,096.0	90.30	1.20	9,514.9	3,521.6	-124.5	3,523.6	0.64	0.11	-0.63
13,192.0	91.10	359.90	9,513.7	3,617.6	-123.5	3,619.5	1.59	0.83	-1.35
13,286.0	90.50	357.90	9,512.4	3,711.6	-125.3	3,713.5	2.22	-0.64	-2.13
13,381.0	89.00	358.20	9,512.8	3,806.5	-128.6	3,808.5	1.61	-1.58	0.32
13,477.0	88.10	357.80	9,515.2	3,902.4	-131.8	3,904.4	0.99	-0.94	-0.31
13,572.0	90.50	358.90	9,516.4	3,997.4	-134.5	3,999.4	2.74	2.53	1.05
13,666.0	92.70	359.10	9,513.8	4,091.3	-136.1	4,093.4	2.35	2.34	0.21
13,761.0	94.70	359.10	9,507.7	4,186.1	-137.6	4,188.2	2.11	2.11	0.00
13,856.0	94.10	0.80	9,500.4	4,280.8	-137.7	4,282.9	1.89	-0.63	1.79
13,951.0	91.30	2.10	9,495.9	4,375.7	-135.3	4,377.6	3.25	-2.95	1.37
14,046.0	91.60	1.80	9,493.5	4,470.6	-132.1	4,472.5	0.45	0.32	-0.32
14,142.0	91.30	1.20	9,491.1	4,566.5	-129.6	4,568.3	0.70	-0.31	-0.63
14,236.0	91.70	0.50	9,488.6	4,660.5	-128.2	4,662.2	0.86	0.43	-0.74
14,331.0	90.40	0.20	9,486.9	4,755.5	-127.6	4,757.1	1.40	-1.37	-0.32
14,426.0	92.00	0.00	9,484.9	4,850.4	-127.4	4,852.1	1.70	1.68	-0.21
14,521.0	90.10	1.00	9,483.1	4,945.4	-126.6	4,947.0	2.26	-2.00	1.05
14,614.0	89.50	0.00	9,483.4	5,038.4	-125.8	5,040.0	1.25	-0.65	-1.08
14,710.0	87.60	0.00	9,485.9	5,134.4	-125.8	5,135.9	1.98	-1.98	0.00
14,804.0	89.10	359.50	9,488.6	5,228.3	-126.2	5,229.9	1.68	1.60	-0.53
14,899.0	91.30	359.80	9,488.3	5,323.3	-126.8	5,324.8	2.34	2.32	0.32
14,993.0	91.80	359.90	9,485.7	5,417.3	-127.0	5,418.8	0.54	0.53	0.11
15,087.0	87.40	358.70	9,486.4	5,511.3	-128.2	5,512.7	4.85	-4.68	-1.28
15,182.0	88.00	356.60	9,490.2	5,606.1	-132.1	5,607.6	2.30	0.63	-2.21
15,278.0	88.60	356.60	9,493.0	5,701.9	-137.7	5,703.5	0.63	0.63	0.00
15,341.0	90.50	357.00	9,493.5	5,764.8	-141.3	5,766.5	3.08	3.02	0.63
15,373.0	93.50	356.80	9,492.4	5,796.7	-143.0	5,798.5	9.40	9.38	-0.63
15,404.0	94.40	357.30	9,490.3	5,827.6	-144.6	5,829.4	3.32	2.90	1.61
15,436.0	94.20	357.20	9,487.9	5,859.5	-146.1	5,861.3	0.70	-0.63	-0.31
15,467.0	93.60	357.20	9,485.8	5,890.4	-147.6	5,892.2	1.94	-1.94	0.00



Stryker Energy Directional Services
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Dolly Varden 25 24 B1ED St Com 2H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3697 + 27 @ 3724.0usft (Patterson 562)
Site:	Section 25 24-21S-34E Dolly Varden 25 24	MD Reference:	3697 + 27 @ 3724.0usft (Patterson 562)
Well:	Dolly Varden 25 24 B1ED St Com 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.15 Single User Db

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)
15,500.0	93.90	357.10	9,483.6	5,923.2	-149.3	5,925.1	0.96	0.91	-0.30
15,532.0	93.50	357.20	9,481.5	5,955.1	-150.9	5,957.0	1.29	-1.25	0.31
15,563.0	93.50	357.30	9,479.6	5,986.0	-152.3	5,988.0	0.32	0.00	0.32
15,600.0	93.50	358.90	9,477.4	6,023.0	-153.6	6,024.9	4.32	0.00	4.32
15,658.0	93.00	0.00	9,474.1	6,080.9	-154.1	6,082.8	2.08	-0.86	1.90
15,753.0	92.30	0.80	9,469.7	6,175.8	-153.5	6,177.6	1.12	-0.74	0.84
15,849.0	91.30	0.80	9,466.7	6,271.7	-152.1	6,273.5	1.04	-1.04	0.00
15,944.0	89.70	0.20	9,465.9	6,366.7	-151.3	6,368.5	1.80	-1.68	-0.63
16,039.0	90.60	359.80	9,465.6	6,461.7	-151.3	6,463.5	1.04	0.95	-0.42
16,133.0	92.00	359.90	9,463.5	6,555.7	-151.5	6,557.4	1.49	1.49	0.11
16,228.0	88.40	359.30	9,463.1	6,650.6	-152.2	6,652.4	3.84	-3.79	-0.63
16,323.0	89.50	0.10	9,464.9	6,745.6	-152.7	6,747.3	1.43	1.16	0.84
16,418.0	89.80	359.80	9,465.5	6,840.6	-152.8	6,842.3	0.45	0.32	-0.32
16,513.0	85.70	358.50	9,469.2	6,935.5	-154.2	6,937.2	4.53	-4.32	-1.37
16,608.0	91.80	358.10	9,471.3	7,030.4	-157.0	7,032.1	6.43	6.42	-0.42
16,703.0	91.60	358.30	9,468.5	7,125.3	-160.0	7,127.1	0.30	-0.21	0.21
16,798.0	90.40	358.10	9,466.8	7,220.2	-163.0	7,222.1	1.28	-1.26	-0.21
16,892.0	89.10	358.40	9,467.2	7,314.2	-165.8	7,316.1	1.42	-1.38	0.32
16,987.0	87.80	358.00	9,469.8	7,409.1	-168.8	7,411.0	1.43	-1.37	-0.42
17,082.0	87.60	357.30	9,473.6	7,504.0	-172.7	7,505.9	0.77	-0.21	-0.74
17,150.0	89.90	357.90	9,475.1	7,571.9	-175.6	7,573.9	3.50	3.38	0.88
17,205.0	89.90	357.90	9,475.2	7,626.8	-177.6	7,628.9	0.00	0.00	0.00
17205.0' Projected to bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,777.0	1,776.9	-2.0	12.6	First Stryker Surveys
17,205.0	9,475.2	7,626.8	-177.6	17205.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____

STRYKER

DIRECTIONAL

November 19, 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
Dolly Varden 25 24 B1ED State Com #2H
Grama Ridge; Bone Spring
Lea County, New Mexico
API# 30-025-45403

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>
Cody Hash	Original Hole	1,777ft. to 17,150ft.	09-05-19 to 09-24-19	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\Dolly Varden 25 24 B1ED State Com #2HM191148

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



November 19, 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 September 5, 2019, through September 24, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,777feet to a depth of 17,150feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Dolly Varden 25 24 B1ED State Com #2H well, API # 30-025-45403 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 V. 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



OCD Permitting

[Home](#) > [Wells](#) > [Well Details](#)

30-025-45403 DOLLY VARDEN 25 24 B1ED STATE COM #002H [322995]

General Well Information

Operator: [14744] MEWBOURNE OIL CO
Status: New **Direction:** Horizontal
Well Type: Oil **Multi-Lateral:** No
Work Type: New **Mineral Owner:** State
Surface Owner: State
Surface Location: E-25-21S-34E 2435 FNL 570 FWL
Lat/Long: 32.4505808,-103.4302382 NAD83
GL Elevation: 3697
KB Elevation: **Sing/Mult Compl:** Single
DF Elevation: **Potash Waiver:** False

Proposed Formation and/or Notes

1ST BONE SPRING SAND

Depths

Proposed: 17201 **True Vertical Depth:** 0
Measured Vertical Depth: 0 **Plugback Measured:** 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 12/13/2018
Most Recent APD Approval: 12/13/2018 **Current APD Expiration:** 12/13/2020
APD Cancellation:
APD Extension Approval:
Spud: **Gas Capture Plan Received:** 12/13/2018
Approved Temporary Abandonment: **TA Expiration:**
Shut In: **PNR Expiration:**
Plug and Abandoned Intent Received: **Last MIT/BHT:**
Well Plugged:
Site Release:
Last Inspection:

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
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Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 25 24-21S-34E Dolly Varden 25 24
Well: Dolly Varden 25 24 B1ED St Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Dolly Varden 25 24 B1ED St Com 2H
TVD Reference: 3697 + 27 @ 3724.0usft (Patterson 582)
MD Reference: 3697 + 27 @ 3724.0usft (Patterson 582)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	528,823.10	819,913.50	
96.1	0.70	39.86	96.1	0.5	0.4	0.6	39.86	0.73	528,823.65	819,913.88	
278.0	0.60	79.72	278.0	1.5	2.0	2.5	53.97	0.25	528,824.57	819,915.53	
460.6	0.60	113.72	460.6	1.3	3.8	4.0	71.85	0.19	528,824.36	819,917.34	
644.7	0.90	125.72	644.7	0.0	5.9	5.9	89.73	0.18	528,823.13	819,919.40	
835.0	0.40	111.72	834.9	-1.1	7.7	7.8	98.03	0.27	528,822.01	819,921.23	
1,024.0	0.40	118.72	1,023.9	-1.7	8.9	9.1	100.49	0.03	528,821.45	819,922.42	
1,214.0	0.20	158.72	1,213.9	-2.3	9.6	9.9	103.33	0.15	528,820.82	819,923.12	
1,404.0	0.20	118.72	1,403.9	-2.7	10.0	10.4	105.32	0.07	528,820.35	819,923.53	
1,594.0	0.50	63.72	1,593.9	-2.5	11.1	11.4	102.93	0.22	528,820.56	819,924.57	
1,777.0	0.50	76.72	1,776.9	-2.0	12.6	12.7	99.06	0.06	528,821.10	819,926.06	
First Stryker Surveys											
1,840.0	0.10	63.20	1,839.9	-1.9	12.9	13.0	98.46	0.64	528,821.18	819,926.38	
1,934.0	1.20	266.50	1,933.9	-1.9	12.0	12.1	99.20	1.37	528,821.16	819,925.47	
2,029.0	1.30	273.70	2,028.9	-1.9	9.9	10.1	101.03	0.20	528,821.17	819,923.40	
2,124.0	2.20	276.90	2,123.9	-1.6	7.0	7.2	103.17	0.95	528,821.46	819,920.51	
2,219.0	2.50	279.40	2,218.8	-1.1	3.2	3.3	108.93	0.33	528,822.02	819,916.66	
2,409.0	3.40	279.00	2,408.5	0.5	-8.5	6.5	274.18	0.47	528,823.57	819,907.01	
2,598.0	2.70	272.00	2,597.3	1.5	-16.5	16.5	275.22	0.42	528,824.61	819,897.02	
2,789.0	0.90	235.10	2,788.2	0.8	-22.2	22.2	272.08	1.07	528,823.91	819,891.29	
2,979.0	0.70	212.70	2,978.1	-1.0	-24.1	24.1	267.56	0.19	528,822.07	819,889.44	
3,170.0	1.70	108.40	3,169.1	-2.9	-22.0	22.2	262.49	1.04	528,820.20	819,891.50	
3,360.0	1.50	118.40	3,359.0	-5.0	-17.1	17.8	253.81	0.18	528,818.13	819,896.36	
3,550.0	1.80	116.00	3,549.0	-7.5	-12.3	14.4	238.68	0.16	528,815.64	819,901.23	
3,739.0	1.70	124.40	3,737.9	-10.3	-7.3	12.7	215.14	0.15	528,812.75	819,906.21	
3,929.0	2.20	123.80	3,927.8	-14.0	-1.9	14.1	187.86	0.26	528,809.13	819,911.57	
4,119.0	2.20	127.90	4,117.6	-18.2	4.0	18.7	167.69	0.08	528,804.86	819,917.48	



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 25 24-21S-34E Dolly Varden 25 24
Well: Dolly Varden 25 24 B1ED St Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Dolly Varden 25 24 B1ED St Com 2H
TVD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
MD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
4,309.0	2.80	123.60	4,307.4	-23.0	10.7	25.4	155.05	0.33	528,800.05	819,924.22	
4,500.0	3.20	123.20	4,498.2	-28.5	19.1	34.3	146.28	0.21	528,794.55	819,932.57	
4,689.0	3.70	122.90	4,688.8	-34.7	28.6	45.0	140.54	0.28	528,788.35	819,942.10	
4,879.0	4.20	118.90	4,876.4	-41.4	39.8	57.5	136.13	0.30	528,781.68	819,953.34	
5,070.0	5.50	111.00	5,066.7	-48.1	54.5	72.7	131.43	0.76	528,775.00	819,988.01	
5,260.0	7.60	109.00	5,255.4	-55.5	74.9	93.2	126.52	1.11	528,767.64	819,988.39	
5,451.0	9.20	112.00	5,444.4	-65.3	101.0	120.3	122.88	0.87	528,757.81	820,014.49	
5,641.0	11.50	113.00	5,631.3	-78.4	132.5	154.0	120.60	1.21	528,744.72	820,048.02	
5,755.0	12.90	110.20	5,742.7	-87.2	154.9	177.8	119.38	1.33	528,735.88	820,088.42	
5,827.0	11.10	115.50	5,813.1	-93.0	168.7	192.6	118.86	2.93	528,730.12	820,082.22	
5,923.0	7.90	118.80	5,907.8	-100.1	182.8	208.5	118.71	3.38	528,722.97	820,096.35	
6,018.0	4.90	125.80	6,002.2	-105.7	191.9	219.0	118.84	3.26	528,717.45	820,105.36	
6,114.0	2.80	117.70	6,098.0	-109.1	197.3	225.4	118.96	2.25	528,713.96	820,110.76	
6,208.0	2.80	108.90	6,191.9	-111.0	201.5	230.0	118.84	0.46	528,712.15	820,114.97	
6,304.0	2.90	109.90	6,287.8	-112.5	206.0	234.7	118.65	0.12	528,710.56	820,119.47	
6,399.0	2.50	145.90	6,382.7	-115.1	209.4	238.9	118.79	1.80	528,708.03	820,122.89	
6,493.0	2.20	173.60	6,476.6	-118.6	210.7	241.8	119.36	1.24	528,704.53	820,124.24	
6,589.0	2.10	176.80	6,572.5	-122.2	211.0	243.8	120.06	0.16	528,700.95	820,124.54	
6,684.0	4.60	220.00	6,667.4	-126.8	208.7	244.2	121.28	3.57	528,696.29	820,122.19	
6,778.0	6.50	231.00	6,760.9	-133.0	202.1	242.0	123.35	2.31	528,690.05	820,115.63	
6,873.0	6.20	232.20	6,855.3	-139.6	193.9	238.9	125.75	0.35	528,683.53	820,107.40	
7,063.0	6.60	259.90	7,044.2	-147.8	175.0	229.1	130.17	1.62	528,675.32	820,088.54	
7,252.0	5.90	257.00	7,232.1	-151.9	154.9	216.9	134.44	0.41	528,671.23	820,088.38	
7,442.0	6.20	243.80	7,421.0	-158.6	136.2	209.1	139.36	0.76	528,664.47	820,049.68	
7,632.0	5.70	247.60	7,610.0	-166.8	118.3	204.5	144.66	0.34	528,656.31	820,031.76	
7,822.0	5.50	243.50	7,799.1	-174.4	101.4	201.8	149.83	0.24	528,648.66	820,014.89	
8,012.0	5.00	246.50	7,986.3	-181.8	85.6	201.0	154.78	0.30	528,641.29	819,999.15	



Stryker Energy Directional Services
Survey Report Landscape



Company: Mawbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 25 24-21S-34E Dolly Varden 25 24
Well: Dolly Varden 25 24 B1ED St Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Dolly Varden 25 24 B1ED St Com 2H
TVD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
MD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,203.0	5.60	234.70	8,178.5	-190.5	70.4	203.1	159.72	0.65	528,632.59	819,983.91
8,394.0	6.10	235.90	8,368.5	-201.6	54.4	208.8	164.80	0.27	528,621.51	819,987.90
8,583.0	5.30	240.50	8,556.5	-211.5	38.5	215.0	169.69	0.49	528,611.58	819,951.99
8,774.0	3.30	235.90	8,747.0	-218.9	26.3	220.5	173.16	1.06	528,604.16	819,939.76
8,964.0	3.40	229.30	8,936.7	-225.7	17.5	226.4	175.58	0.21	528,597.42	819,930.96
9,083.0	5.50	287.00	9,055.4	-226.3	9.3	228.5	177.64	3.92	528,596.78	819,922.82
9,130.0	12.00	317.90	9,101.8	-222.0	3.9	222.1	179.00	16.60	528,601.07	819,917.38
9,225.0	23.50	332.20	9,192.2	-197.9	-11.6	198.2	183.38	12.86	528,625.25	819,901.87
9,274.0	30.80	341.80	9,235.8	-177.3	-20.1	178.4	186.48	17.33	528,645.84	819,893.36
9,321.0	36.10	348.90	9,275.0	-152.2	-26.6	154.5	189.89	14.00	528,670.89	819,886.95
9,369.0	41.50	351.80	9,312.4	-122.6	-31.5	128.6	194.43	11.87	528,700.53	819,881.95
9,416.0	45.10	353.10	9,348.6	-90.6	-35.8	97.4	201.54	7.89	528,732.48	819,877.73
9,483.0	48.30	354.60	9,378.8	-56.6	-39.4	69.0	214.85	7.19	528,766.48	819,874.08
9,511.0	50.90	354.60	9,409.9	-20.2	-42.9	47.4	244.73	5.42	528,802.87	819,870.64
9,559.0	55.10	353.90	9,438.8	17.9	-46.7	50.0	290.97	8.83	528,841.00	819,866.79
9,606.0	59.10	352.50	9,464.3	57.1	-51.4	76.8	318.00	8.87	528,880.18	819,862.11
9,653.0	63.00	351.30	9,487.1	97.8	-57.2	113.3	329.68	8.59	528,920.88	819,856.31
9,700.0	67.00	351.60	9,506.9	139.9	-63.5	153.6	335.58	8.53	528,963.00	819,849.98
9,748.0	74.70	352.10	9,522.7	184.8	-69.9	197.5	339.27	16.07	529,007.85	819,843.56
9,795.0	80.20	351.80	9,532.9	230.2	-76.4	242.5	341.65	11.72	529,053.26	819,837.14
9,840.0	84.60	351.30	9,538.8	274.3	-82.9	286.5	343.18	9.84	529,097.37	819,830.68
9,868.0	93.40	350.70	9,541.1	400.5	-102.9	413.6	345.59	6.89	529,223.65	819,810.58
10,062.0	89.70	349.60	9,538.5	493.1	-119.0	507.3	346.43	4.11	529,316.21	819,794.51
10,094.0	90.00	349.40	9,536.6	524.6	-124.8	539.2	346.62	1.13	529,347.67	819,786.68
10,125.0	91.30	350.00	9,538.2	555.1	-130.4	570.2	346.78	4.62	529,378.17	819,783.14
10,157.0	91.10	349.50	9,537.6	586.6	-136.1	602.1	346.94	1.68	529,409.65	819,777.44
10,188.0	88.20	349.50	9,537.8	617.0	-141.7	633.1	347.07	9.35	529,440.13	819,771.80



Stryker Energy Directional Services

Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 25 24-21S-34E Dolly Varden 25 24
Well: Dolly Varden 25 24 B1ED St Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Dolly Varden 25 24 B1ED St Com 2H
TVD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
MD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,220.0	87.80	349.70	9,538.9	648.5	-147.5	665.0	347.19	1.88	529,471.58	819,768.02
10,252.0	87.40	351.90	9,540.3	680.0	-152.6	698.9	347.35	6.90	529,503.14	819,760.91
10,347.0	87.20	356.90	9,544.8	774.5	-161.8	791.2	348.20	5.28	529,597.55	819,751.85
10,441.0	90.50	0.00	9,546.7	868.4	-164.4	883.8	349.28	4.82	529,691.47	819,749.11
10,536.0	89.10	0.80	9,547.0	963.4	-163.7	977.2	350.35	1.70	529,786.47	819,749.78
10,631.0	88.30	0.80	9,549.2	1,058.3	-162.6	1,070.7	351.27	0.87	529,881.44	819,750.94
10,726.0	90.70	0.30	9,550.0	1,153.3	-161.8	1,164.6	352.01	2.55	529,976.42	819,751.68
10,820.0	90.70	0.00	9,548.8	1,247.3	-161.6	1,257.7	352.62	0.32	530,070.41	819,751.93
10,915.0	91.70	1.50	9,546.9	1,342.3	-160.3	1,351.8	353.19	1.90	530,165.38	819,753.17
11,011.0	90.60	0.40	9,544.9	1,438.2	-158.7	1,447.0	353.70	1.62	530,261.35	819,754.76
11,108.0	90.50	359.70	9,544.0	1,533.2	-158.7	1,541.4	354.09	0.74	530,356.34	819,764.85
11,200.0	91.00	0.20	9,542.8	1,627.2	-158.7	1,635.0	354.43	0.75	530,450.33	819,754.76
11,295.0	88.30	357.80	9,543.4	1,722.2	-160.3	1,729.6	354.68	3.73	530,545.30	819,753.19
11,390.0	88.40	0.00	9,546.1	1,817.1	-162.0	1,824.4	354.90	2.21	530,640.24	819,751.45
11,485.0	89.80	359.70	9,547.6	1,912.1	-162.3	1,919.0	355.16	1.51	530,735.23	819,751.20
11,580.0	93.20	0.70	9,545.1	2,007.1	-162.0	2,013.6	355.39	3.73	530,830.18	819,761.53
11,674.0	93.50	359.40	9,539.6	2,100.9	-161.9	2,107.1	355.59	1.42	530,924.02	819,761.81
11,769.0	93.00	1.50	9,534.2	2,195.8	-161.1	2,201.7	355.80	2.27	531,018.86	819,762.36
11,863.0	90.90	0.00	9,531.1	2,289.7	-159.9	2,295.3	356.00	2.74	531,112.78	819,763.59
11,958.0	89.70	0.80	9,530.6	2,384.7	-159.2	2,390.0	356.18	1.52	531,207.78	819,764.25
12,053.0	89.80	0.80	9,531.0	2,479.7	-157.9	2,484.7	356.36	0.11	531,302.77	819,765.58
12,148.0	92.00	0.70	9,529.5	2,574.6	-156.7	2,579.4	356.52	2.32	531,397.74	819,766.82
12,243.0	91.90	0.10	9,528.2	2,669.6	-156.0	2,674.1	356.66	0.64	531,492.68	819,767.48
12,337.0	91.30	359.70	9,523.6	2,763.5	-156.2	2,768.0	356.77	0.77	531,586.65	819,767.32
12,431.0	92.30	2.20	9,520.7	2,857.5	-154.6	2,861.7	356.90	2.86	531,680.58	819,768.88
12,526.0	91.20	3.70	9,517.8	2,952.3	-149.7	2,956.1	357.10	1.96	531,775.41	819,763.76
12,621.0	88.20	3.30	9,518.3	3,047.1	-143.9	3,050.5	357.30	3.19	531,870.22	819,769.56



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 25 24-21S-34E Dolly Varden 25 24
Well: Dolly Varden 25 24 B1ED St Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Dolly Varden 25 24 B1ED St Com 2H
TVD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
MD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
12,717.0	89.90	2.90	9,519.9	3,143.0	-138.7	3,146.0	357.47	1.82	531,966.06	819,774.75	
12,811.0	90.70	2.60	9,519.4	3,236.8	-134.2	3,239.6	357.63	0.91	532,059.95	819,779.28	
12,905.0	92.00	2.20	9,517.1	3,330.7	-130.3	3,333.3	357.76	1.45	532,163.84	819,783.20	
13,001.0	90.20	1.80	9,515.3	3,426.7	-127.0	3,429.0	357.88	1.82	532,249.76	819,786.55	
13,096.0	90.30	1.20	9,514.9	3,521.6	-124.5	3,523.8	357.98	0.64	532,344.72	819,789.03	
13,192.0	91.10	359.90	9,513.7	3,617.6	-123.5	3,619.7	358.04	1.59	532,440.71	819,789.96	
13,286.0	90.50	357.90	9,512.4	3,711.6	-125.3	3,713.7	358.07	2.22	532,534.68	819,788.15	
13,381.0	89.00	358.20	9,512.8	3,808.5	-128.6	3,808.7	358.07	1.61	532,629.62	819,784.92	
13,477.0	88.10	357.90	9,515.2	3,902.4	-131.8	3,904.7	358.06	0.99	532,725.53	819,781.65	
13,572.0	90.50	358.90	9,516.4	3,997.4	-134.5	3,999.6	358.07	2.74	532,820.48	819,779.00	
13,666.0	92.70	359.10	9,513.8	4,091.3	-136.1	4,093.6	358.09	2.35	532,914.42	819,777.38	
13,761.0	94.70	359.10	9,507.7	4,186.1	-137.6	4,188.4	358.12	2.11	533,009.21	819,775.87	
13,856.0	94.10	0.80	9,500.4	4,280.8	-137.7	4,283.0	358.16	1.89	533,103.92	819,775.79	
13,951.0	91.30	2.10	9,495.9	4,375.7	-135.3	4,377.8	358.23	3.25	533,198.78	819,778.19	
14,046.0	91.60	1.80	9,493.5	4,470.6	-132.1	4,472.5	358.31	0.46	533,293.69	819,781.43	
14,142.0	91.30	1.20	9,491.1	4,566.5	-129.6	4,568.4	358.37	0.70	533,389.63	819,783.94	
14,236.0	91.70	0.50	9,488.6	4,660.5	-128.2	4,662.2	358.42	0.86	533,483.58	819,785.33	
14,331.0	90.40	0.20	9,486.9	4,755.5	-127.6	4,757.2	358.46	1.40	533,578.56	819,785.91	
14,426.0	92.00	0.00	9,484.9	4,850.4	-127.4	4,852.1	358.50	1.70	533,673.54	819,786.08	
14,521.0	90.10	1.00	9,483.1	4,945.4	-126.8	4,947.0	358.53	2.26	533,768.51	819,786.91	
14,614.0	89.50	0.00	9,483.4	5,038.4	-125.8	5,040.0	358.57	1.25	533,861.51	819,787.72	
14,710.0	87.60	0.00	9,485.9	5,134.4	-125.8	5,135.9	358.60	1.98	533,957.47	819,787.72	
14,804.0	89.10	359.50	9,488.6	5,228.3	-126.2	5,229.9	358.62	1.68	534,051.43	819,787.31	
14,899.0	91.30	359.80	9,488.3	5,323.3	-126.8	5,324.6	358.64	2.34	534,146.42	819,786.73	
14,993.0	91.80	359.90	9,485.7	5,417.3	-127.0	5,418.8	358.66	0.54	534,240.39	819,786.48	
15,087.0	87.40	358.70	9,486.4	5,511.3	-128.2	5,512.7	358.67	4.85	534,334.35	819,785.33	
15,182.0	88.00	356.60	9,490.2	5,606.1	-132.1	5,607.6	358.66	2.30	534,429.19	819,781.44	



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 25 24-21S-34E Dolly Varden 25 24
Well: Dolly Varden 25 24 B1ED St Com 2H
Wellbore: Original Hole
Design: Original Hole

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

Well Dolly Varden 25 24 B1ED St Com 2H
3697 + 27 @ 3724.0usft (Patterson 582)
3697 + 27 @ 3724.0usft (Patterson 582)
Grid
Minimum Curvature
EDM 5000.15 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
15,278.0	88.60	358.60	9,493.0	5,701.9	-137.7	5,703.5	358.62	0.62	534,524.98	819,775.75
15,341.0	90.50	357.00	9,493.5	5,764.8	-141.3	5,766.5	358.60	3.08	534,587.88	819,772.23
15,373.0	93.50	356.80	9,492.4	5,798.7	-143.0	5,798.5	358.59	9.40	534,619.81	819,770.50
15,404.0	94.40	357.30	9,490.3	5,827.6	-144.6	5,829.4	358.58	3.32	534,650.69	819,768.91
15,436.0	94.20	357.20	9,487.9	5,859.5	-146.1	5,861.3	358.57	0.70	534,682.56	819,767.38
15,467.0	93.60	357.20	9,485.8	5,890.4	-147.6	5,892.2	358.56	1.94	534,713.45	819,765.87
15,500.0	93.90	357.10	9,483.6	5,923.2	-149.3	5,925.1	358.56	0.96	534,746.34	819,764.23
15,532.0	93.50	357.20	9,481.5	5,955.1	-150.9	5,957.0	358.55	1.29	534,778.24	819,762.65
15,563.0	93.50	357.30	9,479.6	5,986.0	-152.3	5,988.0	358.54	0.32	534,809.14	819,761.16
15,600.0	93.50	358.90	9,477.4	6,023.0	-153.8	6,024.9	358.54	4.32	534,846.05	819,759.94
15,658.0	93.00	0.00	9,474.1	6,080.9	-154.1	6,082.8	358.55	2.08	534,803.86	819,759.38
15,753.0	92.30	0.80	9,469.7	6,175.8	-153.5	6,177.7	358.56	1.12	534,998.85	819,760.04
15,849.0	91.30	0.80	9,466.7	6,271.7	-152.1	6,273.5	358.61	1.04	535,094.79	819,761.38
15,944.0	89.70	0.20	9,465.9	6,366.7	-151.3	6,368.5	358.64	1.80	535,189.78	819,762.21
16,039.0	90.60	359.80	9,465.6	6,461.7	-151.3	6,463.5	358.66	1.04	535,284.78	819,762.21
16,133.0	92.00	359.90	9,463.5	6,555.7	-151.5	6,557.4	358.68	1.49	535,378.75	819,761.97
16,228.0	88.40	359.30	9,463.2	6,650.6	-152.2	6,652.4	358.69	3.84	535,473.73	819,761.30
16,323.0	89.50	0.10	9,464.9	6,745.6	-152.7	6,747.3	358.70	1.43	535,568.72	819,760.81
16,418.0	89.80	359.80	9,465.5	6,840.6	-152.8	6,842.3	358.72	0.45	535,663.71	819,760.72
16,513.0	85.70	358.50	9,469.2	6,935.5	-154.2	6,937.2	358.73	4.53	535,758.61	819,759.32
16,608.0	91.80	358.10	9,471.3	7,030.4	-157.0	7,032.2	358.72	6.43	535,853.50	819,756.50
16,703.0	91.80	358.30	9,468.5	7,125.3	-160.0	7,127.1	358.71	0.30	535,948.41	819,753.52
16,798.0	90.40	358.10	9,466.8	7,220.2	-163.0	7,222.1	358.71	1.28	536,043.35	819,750.53
16,892.0	89.10	358.40	9,467.2	7,314.2	-165.8	7,316.1	358.70	1.42	536,137.30	819,747.66
16,987.0	87.80	358.00	9,469.8	7,409.1	-168.8	7,411.0	358.69	1.43	536,232.22	819,744.66
17,082.0	87.60	357.30	9,473.6	7,504.0	-172.7	7,505.9	358.68	0.77	536,327.06	819,740.79
17,150.0	89.90	357.90	9,475.1	7,571.9	-175.6	7,573.9	358.67	3.50	536,394.98	819,737.94



Stryker Energy Directional Services
Survey Report Landscape



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 25 24-21S-34E Dolly Varden 25 24
Well: Dolly Varden 25 24 B1ED St Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Dolly Varden 25 24 B1ED St Com 2H
TVD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
MD Reference: 3697 + 27 @ 3724.0usft (Patterson 562)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
17,205.0	89.90	357.90	9,475.2	7,628.8	-177.6	7,628.8	358.67	0.00	536,449.94	819,735.93
17205.0' Projected to bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,777.0	1,776.9	-2.0	12.6	First Stryker Surveys
17,205.0	9,475.2	7,628.8	-177.6	17205.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____



COMPANY: Mewbourne Oil Company
 WELL: Dolly Varden 25 24 B1ED SI Com 2H
 COUNTY: Lea County N. M. Nad (83)
 DATUM: North American Datum 1983
 RIG: Patterson 562

STRYKER
 DIRECTIONAL
 OFFICE: 934.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.20°

GEODETIC ZONE: New Mexico Eastern Zone
 3697 + 27 @ 3724.0usft (Patterson 562)
 GROUND ELEVATION: 3897.0

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	528823.10	819913.50	32° 27' 2.019 N	103° 25' 48.858 W

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSecl	Target
1	5755.0	12.90	110.20	5742.7	-87.2	154.9	0.00	0.00	-89.8	
2	6271.0	0.00	0.00	6254.4	-107.2	209.2	2.50	180.00	-110.8	
3	6687.1	5.94	241.19	6649.7	-117.1	191.2	1.50	241.19	-120.4	
4	6832.6	5.94	241.19	6804.6	-215.1	13.0	0.00	0.00	-215.3	
5	9028.6	0.00	0.00	9000.0	-225.0	-5.0	1.50	180.00	-224.9	BB Dolly Varden B1ED
6	9110.2	0.00	0.00	9081.6	-225.0	-5.0	0.00	0.00	-224.9	
7	9865.7	90.66	350.00	9559.0	250.6	-88.9	12.00	350.00	252.1	
8	10262.6	90.66	359.92	9554.4	645.4	-123.7	2.50	89.94	647.5	
9	17232.6	90.66	359.92	9474.0	7615.0	-133.1	0.00	0.00	7616.2	PBHL Dolly Varden 25 24 B1ED SI Com 2H

SHL: 2435' FNL: 670' FWL
 Section 25-21S-34E
 PBHL: 100' FNL: 500' FWL
 Section 24-21S-34E

