

MEWBOURNE
OIL COMPANY

COMPANY: Mewbourne Oil Company
WELL: Cast Away 6 B2BW St Corn Unit 1H
COUNTY: Lea County N. M. Nad (83)
DATUM: North American Datum 1983

STRYKER
DIRECTIONAL

OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.25°

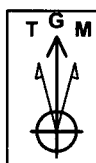
GEODETTIC ZONE: New Mexico Eastern Zone
3662 + 27 @ 3689.0usft (Patterson 242)
GROUND ELEVATION: 3662.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	554788.04	827012.69	32° 31' 18.324 N	103° 24' 23.383 W	

PLAN SECTIONS

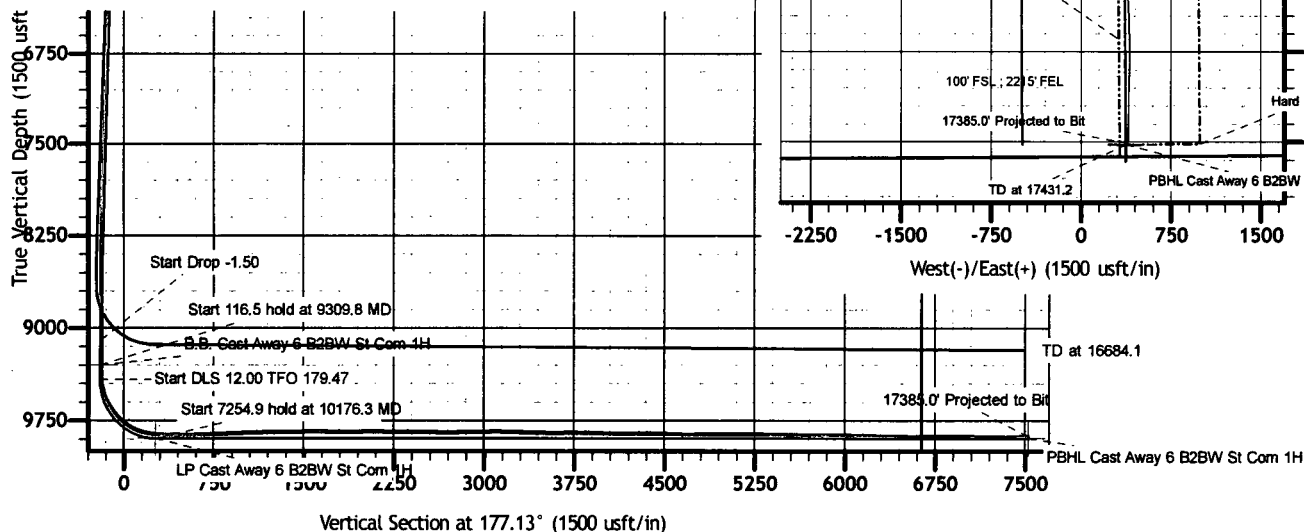
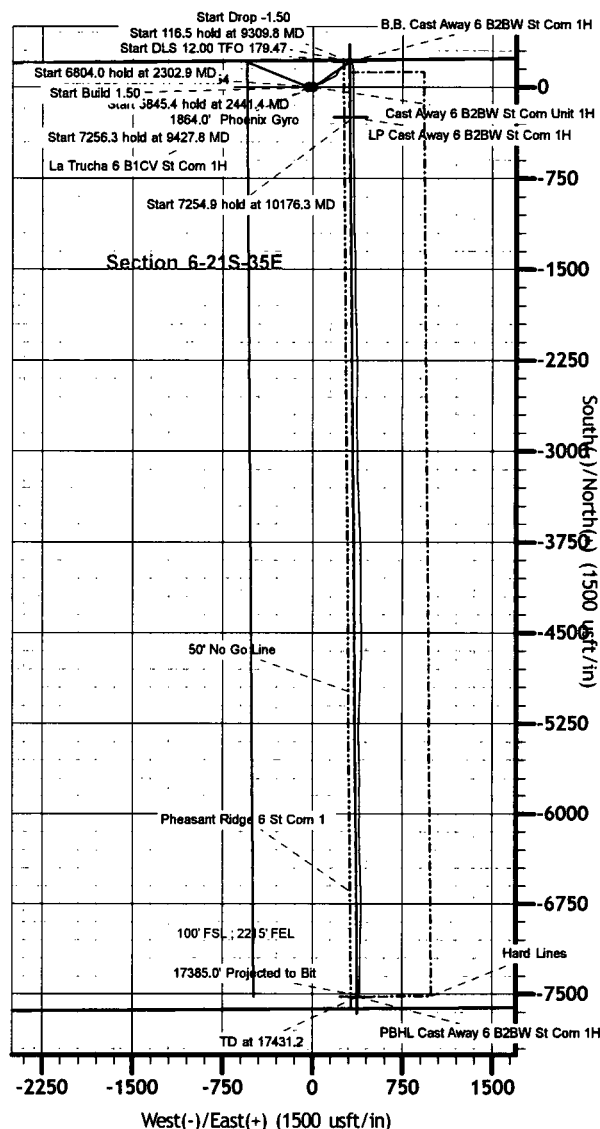
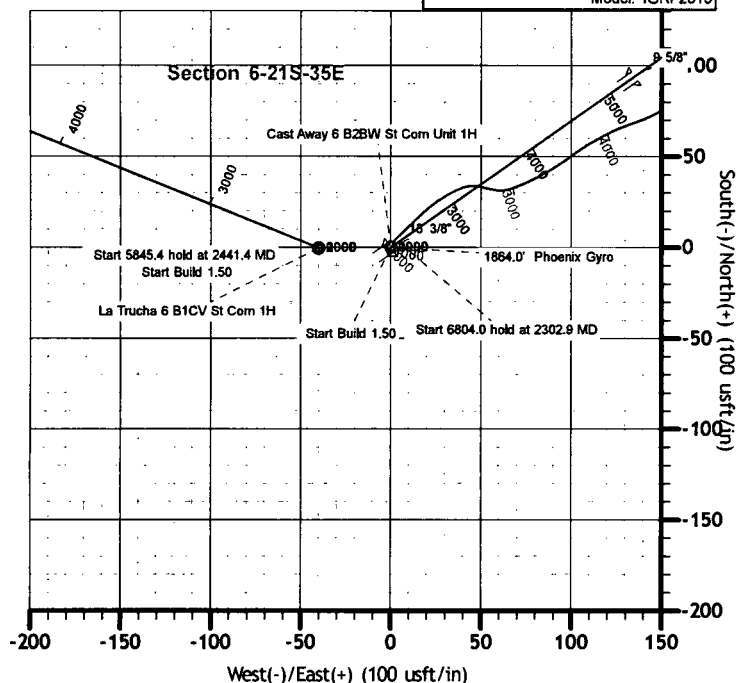
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2100.0	0.00	0.00	2100.0	0.0	0.0	0.00	0.00	0.0	
3	2302.9	3.04	55.12	2302.8	3.1	4.4	1.50	55.12	-2.9	
4	9105.9	3.04	55.12	9097.2	209.7	300.8	0.00	0.00	-194.3	
5	9309.8	0.00	0.00	9300.0	212.7	305.2	1.50	180.00	-197.2	B.B. Cast Away 6 B2BW St Corn 1H
6	9426.3	0.00	0.00	9416.5	212.7	305.2	0.00	0.00	-197.2	
7	10176.3	90.00	179.47	9894.0	-264.7	309.6	12.00	179.47	279.9	
8	17431.2	90.00	179.47	9894.0	-7519.3	376.8	0.00	0.00	7528.8	PBHL Cast Away 6 B2BW St Corn 1H

SHL: 220 FNL; 2541' FEL
Section 6-21S-35E
PBHL: 100' FSL; 2230' FEL
Section 6-21S-35E



Azimuths to Grid North
True North: -0.50°
Magnetic North: 6.25°

Magnetic Field
Strength: 47992.4snT
Dip Angle: 60.34°
Date: 10/17/2018
Model: IGRF2015





Mewbourne Oil Company

Lea County N. M. Nad (83)

Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H

Cast Away 6 B2BW St Com Unit 1H

Original Hole

Design: Original Hole

Standard Survey Report

11 December, 2018



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Cast Away 6 B2BW St Com Unit 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Site:	Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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 6-21S-35E Cast Away 6 B2BW St Com Unit 1H			
Site Position:		Northing:	554,788.04 usft	Latitude:	32° 31' 18.324 N
From:	Map	Easting:	827,012.69 usft	Longitude:	103° 24' 23.383 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	Cast Away 6 B2BW St Com Unit 1H					
Well Position	+N/-S	0.0 usft	Northing:	554,788.04 usft	Latitude:	32° 31' 18.324 N
	+E/-W	0.0 usft	Easting:	827,012.69 usft	Longitude:	103° 24' 23.383 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,662.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/17/18	6.75	60.34	47,992.43308380

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	280.26

Survey Program		Date	12/11/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,864.0	Phoenix Tech Gyro Survey #1 (Original H)	GyroFlex		
1,988.0	17,385.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

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
100.0	0.75	232.67	100.0	-0.4	-0.5	0.4	0.75	0.75	0.00
200.0	0.13	46.94	200.0	-0.7	-1.0	0.8	0.88	-0.62	174.27
300.0	0.36	281.05	300.0	-0.6	-1.2	1.1	0.45	0.23	-125.89
400.0	0.38	315.74	400.0	-0.3	-1.7	1.6	0.22	0.02	34.69
500.0	0.04	219.82	500.0	-0.1	-2.0	1.9	0.39	-0.34	-95.92
600.0	0.35	283.66	600.0	0.0	-2.3	2.3	0.33	0.31	63.84
700.0	0.52	63.96	700.0	0.2	-2.2	2.2	0.82	0.17	140.30
800.0	0.18	270.01	800.0	0.4	-1.9	2.0	0.69	-0.34	-153.95

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Cast Away 6 B2BW St Com Unit 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Site:	Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	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)
900.0	0.18	103.65	900.0	0.4	-1.9	2.0	0.36	0.00	-166.36
1,000.0	0.12	7.91	1,000.0	0.5	-1.8	1.8	0.23	-0.06	-95.74
1,100.0	0.19	193.44	1,100.0	0.4	-1.8	1.8	0.31	0.07	-174.47
1,200.0	0.42	91.66	1,200.0	0.2	-1.5	1.5	0.50	0.23	-101.78
1,300.0	0.30	234.96	1,300.0	0.1	-1.3	1.3	0.68	-0.12	143.30
1,400.0	0.08	9.88	1,400.0	0.0	-1.5	1.5	0.36	-0.22	134.92
1,500.0	0.04	208.72	1,500.0	0.0	-1.5	1.5	0.12	-0.04	-161.16
1,600.0	0.13	28.05	1,600.0	0.1	-1.5	1.5	0.17	0.09	179.33
1,700.0	0.12	241.23	1,700.0	0.2	-1.5	1.5	0.24	-0.01	-146.82
1,800.0	0.18	50.61	1,800.0	0.2	-1.5	1.5	0.30	0.06	169.38
1,864.0	0.04	231.11	1,864.0	0.3	-1.4	1.5	0.34	-0.22	-280.47
1864.0' Phoenix Gyro									
1,988.0	1.90	43.30	1,988.0	1.7	-0.1	0.4	1.56	1.50	138.86
2,083.0	5.10	46.10	2,082.8	5.8	4.1	-3.0	3.37	3.37	2.95
2,272.0	5.90	46.60	2,270.9	18.3	17.2	-13.6	0.42	0.42	0.26
2,460.0	6.20	61.10	2,457.9	29.8	33.1	-27.2	0.83	0.16	7.71
2,649.0	3.30	99.60	2,646.2	33.9	47.4	-40.6	2.20	-1.53	20.37
2,838.0	3.00	104.80	2,835.0	31.7	57.5	-51.0	0.22	-0.16	2.75
3,027.0	4.90	67.70	3,023.5	33.5	69.8	-62.7	1.64	1.01	-19.63
3,213.0	4.10	62.00	3,209.0	39.6	83.0	-74.6	0.49	-0.43	-3.06
3,401.0	3.40	56.40	3,396.5	45.9	93.6	-83.9	0.42	-0.37	-2.98
3,589.0	2.90	53.30	3,584.3	51.8	102.0	-91.2	0.28	-0.27	-1.65
3,777.0	2.90	60.00	3,772.0	57.0	110.0	-98.1	0.18	0.00	3.56
3,966.0	2.80	62.20	3,960.8	61.6	118.2	-105.3	0.08	-0.05	1.16
4,154.0	2.80	67.50	4,148.6	65.5	126.5	-112.8	0.14	0.00	2.82
4,342.0	3.20	71.20	4,336.3	68.9	135.7	-121.3	0.24	0.21	1.97
4,530.0	2.90	63.90	4,524.0	72.7	145.0	-129.7	0.26	-0.16	-3.88
4,720.0	3.00	58.40	4,713.8	77.4	153.5	-137.3	0.16	0.05	-2.89
4,908.0	3.10	63.40	4,901.5	82.3	162.2	-145.0	0.15	0.05	2.66
5,095.0	3.00	67.30	5,088.3	86.4	171.3	-153.1	0.12	-0.05	2.09
5,270.0	3.30	64.10	5,263.0	90.4	180.0	-161.0	0.20	0.17	-1.83
5,377.0	3.90	57.30	5,369.8	93.7	185.9	-166.2	0.69	0.56	-6.36
5,566.0	2.60	28.10	5,558.5	101.0	193.3	-172.2	1.09	-0.69	-15.45
5,755.0	2.70	23.30	5,747.3	108.8	197.1	-174.5	0.13	0.05	-2.54
5,943.0	2.90	18.90	5,935.1	117.4	200.4	-176.2	0.16	0.11	-2.34
6,130.0	2.70	16.80	6,121.8	126.1	203.2	-177.5	0.12	-0.11	-1.12
6,318.0	4.00	43.10	6,309.5	135.1	208.9	-181.5	1.05	0.69	13.99
6,506.0	3.70	45.60	6,497.1	144.2	217.7	-188.6	0.18	-0.16	1.33
6,695.0	4.20	48.30	6,685.6	153.0	227.3	-196.4	0.28	0.26	1.43
6,883.0	2.80	53.30	6,873.3	160.3	236.1	-203.8	0.76	-0.74	2.66
7,071.0	2.50	66.30	7,061.1	164.7	243.5	-210.3	0.36	-0.16	6.91
7,259.0	2.70	42.10	7,248.9	169.7	250.2	-216.0	0.59	0.11	-12.87

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Cast Away 6 B2BW St Com Unit 1H
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Site:	Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	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)
7,446.0	3.50	41.20	7,435.6	177.2	257.0	-221.3	0.43	0.43	-0.48
7,633.0	2.90	51.10	7,622.3	184.5	264.4	-227.3	0.44	-0.32	5.29
7,820.0	2.60	49.60	7,809.1	190.2	271.3	-233.1	0.16	-0.16	-0.80
8,008.0	2.30	50.50	7,997.0	195.4	277.5	-238.2	0.16	-0.16	0.48
8,196.0	3.30	62.90	8,184.7	200.2	285.2	-245.0	0.62	0.53	6.60
8,384.0	3.00	80.50	8,372.4	203.5	294.9	-253.9	0.54	-0.16	9.36
8,573.0	2.90	81.00	8,561.2	205.1	304.5	-263.1	0.05	-0.05	0.26
8,761.0	1.90	95.50	8,749.0	205.5	312.3	-270.7	0.62	-0.53	7.71
8,902.0	0.70	111.60	8,890.0	205.0	315.4	-273.8	0.88	-0.85	11.42
9,090.0	0.90	125.70	9,078.0	203.7	317.7	-276.3	0.15	0.11	7.50
9,276.0	0.50	69.20	9,264.0	203.1	319.6	-278.3	0.40	-0.22	-30.38
9,311.9	0.50	72.52	9,299.9	203.2	319.9	-278.6	0.08	0.00	9.24
B.B. Cast Away 6 B2BW St Com 1H									
9,369.0	0.50	77.80	9,357.0	203.4	320.4	-279.0	0.08	0.00	9.25
9,400.0	1.60	133.50	9,388.0	203.1	320.8	-279.5	4.46	3.55	179.68
9,431.0	4.70	153.50	9,418.9	201.7	321.7	-280.6	10.46	10.00	64.52
9,463.0	8.50	160.80	9,450.7	198.3	323.1	-282.6	12.14	11.88	22.81
9,494.0	11.90	166.20	9,481.2	193.0	324.6	-285.0	11.38	10.97	17.42
9,525.0	15.80	167.90	9,511.3	185.8	326.2	-287.9	12.65	12.58	5.48
9,557.0	20.40	171.10	9,541.7	176.0	328.0	-291.4	14.70	14.38	10.00
9,588.0	24.80	173.60	9,570.3	164.2	329.6	-295.1	14.52	14.19	8.06
9,620.0	28.80	176.10	9,598.9	149.8	330.8	-298.9	12.98	12.50	7.81
9,651.0	32.00	178.30	9,625.6	134.1	331.6	-302.4	10.93	10.32	7.10
9,683.0	34.90	179.50	9,652.3	116.5	331.9	-305.9	9.29	9.06	3.75
9,714.0	37.10	179.60	9,677.4	98.3	332.1	-309.3	7.10	7.10	0.32
9,746.0	40.00	179.80	9,702.4	78.4	332.2	-312.9	9.07	9.06	0.63
9,777.0	44.20	179.50	9,725.4	57.6	332.3	-316.7	13.56	13.55	-0.97
9,809.0	48.90	178.50	9,747.4	34.4	332.7	-321.3	14.86	14.69	-3.13
9,840.0	52.50	178.50	9,767.0	10.4	333.3	-326.2	11.61	11.61	0.00
9,871.0	56.70	178.80	9,785.0	-14.9	333.9	-331.3	13.57	13.55	0.97
9,903.0	60.80	179.20	9,801.6	-42.2	334.4	-336.6	12.86	12.81	1.25
9,934.0	65.40	180.10	9,815.6	-69.9	334.6	-341.7	15.06	14.84	2.90
9,966.0	69.50	180.10	9,827.9	-99.4	334.5	-346.9	12.81	12.81	0.00
9,997.0	72.30	180.10	9,838.0	-128.7	334.5	-352.1	9.03	9.03	0.00
10,028.0	76.10	180.30	9,846.5	-158.5	334.4	-357.3	12.27	12.26	0.65
10,060.0	80.20	180.10	9,853.0	-189.8	334.3	-362.7	12.83	12.81	-0.63
10,098.0	82.40	179.80	9,858.8	-227.4	334.3	-369.5	5.84	5.79	-0.79
10,121.1	84.90	179.47	9,861.3	-250.3	334.4	-373.7	10.95	10.86	-1.43
LP Cast Away 6 B2BW St Com 1H									
10,133.0	86.20	179.30	9,862.2	-262.2	334.6	-375.9	10.95	10.86	-1.42
10,226.0	90.00	179.00	9,865.3	-355.1	336.0	-393.8	4.10	4.09	-0.32
10,320.0	90.10	179.00	9,865.2	-449.1	337.6	-412.2	0.11	0.11	0.00
10,414.0	90.00	179.30	9,865.2	-543.1	339.0	-430.3	0.34	-0.11	0.32

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Site:	Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	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)
10,508.0	91.70	179.40	9,863.8	-637.1	340.1	-448.1	1.81	1.81	0.11
10,601.0	92.10	179.70	9,860.7	-730.0	340.8	-465.4	0.54	0.43	0.32
10,695.0	94.10	179.90	9,855.6	-823.9	341.1	-482.4	2.14	2.13	0.21
10,789.0	93.10	180.10	9,849.7	-917.7	341.1	-499.1	1.08	-1.06	0.21
10,883.0	90.80	179.70	9,846.5	-1,011.6	341.3	-516.0	2.48	-2.45	-0.43
10,977.0	91.10	179.40	9,844.9	-1,105.6	342.0	-533.5	0.45	0.32	-0.32
11,071.0	90.90	178.60	9,843.3	-1,199.6	343.7	-551.8	0.88	-0.21	-0.85
11,165.0	90.60	177.70	9,842.1	-1,293.5	346.7	-571.5	1.01	-0.32	-0.96
11,260.0	92.00	179.10	9,839.9	-1,388.5	349.3	-591.1	2.08	1.47	1.47
11,354.0	90.90	179.30	9,837.5	-1,482.4	350.7	-609.1	1.19	-1.17	0.21
11,448.0	89.30	179.50	9,837.4	-1,576.4	351.6	-626.8	1.72	-1.70	0.21
11,541.0	88.80	178.90	9,838.9	-1,669.4	352.9	-644.6	0.84	-0.54	-0.65
11,635.0	89.30	178.80	9,840.5	-1,763.4	354.8	-663.2	0.54	0.53	-0.11
11,729.0	90.90	178.30	9,840.3	-1,857.3	357.2	-682.3	1.78	1.70	-0.53
11,823.0	90.20	176.50	9,839.4	-1,951.2	361.5	-703.2	2.05	-0.74	-1.91
11,918.0	90.30	179.60	9,839.0	-2,046.2	364.7	-723.3	3.26	0.11	3.26
12,011.0	90.50	178.30	9,838.3	-2,139.1	366.4	-741.6	1.41	0.22	-1.40
12,105.0	90.00	179.40	9,837.9	-2,233.1	368.3	-760.2	1.29	-0.53	1.17
12,199.0	88.40	178.70	9,839.2	-2,327.1	369.8	-778.4	1.86	-1.70	-0.74
12,293.0	90.10	181.60	9,840.5	-2,421.1	369.6	-794.9	3.58	1.81	3.09
12,388.0	89.10	180.70	9,841.1	-2,516.1	367.7	-810.0	1.42	-1.05	-0.95
12,481.0	88.40	180.50	9,843.2	-2,609.0	366.7	-825.6	0.78	-0.75	-0.22
12,576.0	89.50	179.50	9,844.9	-2,704.0	366.7	-842.5	1.56	1.16	-1.05
12,669.0	91.20	178.80	9,844.3	-2,797.0	368.1	-860.4	1.98	1.83	-0.75
12,764.0	91.90	178.20	9,841.8	-2,891.9	370.6	-879.8	0.97	0.74	-0.63
12,859.0	92.60	179.50	9,838.0	-2,986.8	372.5	-898.5	1.55	0.74	1.37
12,952.0	89.50	179.50	9,836.3	-3,079.8	373.3	-915.9	3.33	-3.33	0.00
13,047.0	88.80	179.20	9,837.7	-3,174.8	374.4	-933.9	0.80	-0.74	-0.32
13,141.0	87.00	177.70	9,841.2	-3,268.7	376.9	-953.1	2.49	-1.91	-1.60
13,235.0	89.20	178.20	9,844.3	-3,362.6	380.3	-973.1	2.40	2.34	0.53
13,329.0	87.80	177.70	9,846.8	-3,456.5	383.6	-993.2	1.58	-1.49	-0.53
13,423.0	90.50	178.50	9,848.2	-3,550.4	386.8	-1,013.0	3.00	2.87	0.85
13,517.0	90.80	177.90	9,847.1	-3,644.3	389.7	-1,032.6	0.71	0.32	-0.64
13,611.0	90.90	178.10	9,845.7	-3,738.3	393.0	-1,052.6	0.24	0.11	0.21
13,705.0	88.80	179.00	9,846.0	-3,832.2	395.4	-1,071.6	2.43	-2.23	0.96
13,799.0	86.80	178.30	9,849.6	-3,926.1	397.6	-1,090.5	2.25	-2.13	-0.74
13,893.0	87.90	179.80	9,853.9	-4,020.0	399.1	-1,108.8	1.98	1.17	1.60
13,986.0	90.80	180.40	9,855.0	-4,113.0	399.0	-1,125.2	3.18	3.12	0.65
14,080.0	91.40	179.10	9,853.2	-4,207.0	399.4	-1,142.3	1.52	0.64	-1.38
14,174.0	89.90	179.70	9,852.1	-4,301.0	400.4	-1,160.0	1.72	-1.60	0.64
14,268.0	89.40	178.50	9,852.7	-4,394.9	401.8	-1,178.2	1.38	-0.53	-1.28
14,362.0	87.60	178.30	9,855.1	-4,488.9	404.5	-1,197.6	1.93	-1.91	-0.21
14,456.0	86.00	180.10	9,860.4	-4,582.7	405.8	-1,215.6	2.56	-1.70	1.91

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Cast Away 6 B2BW St Com Unit 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Site:	Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	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)
14,550.0	89.00	181.20	9,864.5	-4,676.6	404.7	-1,231.2	3.40	3.19	1.17
14,644.0	92.80	181.90	9,863.0	-4,770.5	402.2	-1,245.5	4.11	4.04	0.74
14,738.0	91.20	181.40	9,859.7	-4,864.4	399.5	-1,259.5	1.78	-1.70	-0.53
14,833.0	90.20	182.10	9,858.6	-4,959.4	396.6	-1,273.6	1.28	-1.05	0.74
14,926.0	90.00	182.00	9,858.4	-5,052.3	393.2	-1,286.9	0.24	-0.22	-0.11
15,021.0	89.10	182.70	9,859.1	-5,147.2	389.3	-1,299.9	1.20	-0.95	0.74
15,115.0	88.10	182.60	9,861.4	-5,241.1	385.0	-1,312.4	1.07	-1.06	-0.11
15,209.0	89.20	179.40	9,863.6	-5,335.1	383.4	-1,327.5	3.60	1.17	-3.40
15,303.0	88.50	177.50	9,865.5	-5,429.0	385.9	-1,346.7	2.15	-0.74	-2.02
15,397.0	91.70	177.80	9,865.4	-5,522.9	389.8	-1,367.3	3.42	3.40	0.32
15,491.0	89.80	179.70	9,864.1	-5,616.9	391.8	-1,386.0	2.86	-2.02	2.02
15,586.0	88.80	180.10	9,865.3	-5,711.9	392.0	-1,403.1	1.13	-1.05	0.42
15,679.0	89.90	181.30	9,866.4	-5,804.8	390.8	-1,418.5	1.75	1.18	1.29
15,774.0	90.50	181.90	9,866.0	-5,899.8	388.2	-1,432.8	0.89	0.63	0.63
15,868.0	89.00	180.80	9,866.4	-5,993.8	386.0	-1,447.4	1.98	-1.60	-1.17
15,961.0	87.70	179.90	9,869.1	-6,086.7	385.4	-1,463.4	1.70	-1.40	-0.97
16,056.0	88.40	179.40	9,872.3	-6,181.7	386.0	-1,480.9	0.91	0.74	-0.53
16,150.0	87.50	178.80	9,875.7	-6,275.6	387.5	-1,499.1	1.15	-0.96	-0.64
16,244.0	89.10	177.10	9,878.5	-6,369.5	390.8	-1,519.1	2.48	1.70	-1.81
16,338.0	88.70	177.00	9,880.3	-6,463.4	395.7	-1,540.6	0.44	-0.43	-0.11
16,421.0	89.80	178.00	9,881.4	-6,546.3	399.3	-1,558.9	1.79	1.33	1.20
16,526.0	90.70	178.60	9,880.9	-6,651.2	402.4	-1,580.7	1.03	0.86	0.57
16,620.0	91.20	179.40	9,879.4	-6,745.2	404.0	-1,599.0	1.00	0.53	0.85
16,714.0	90.50	181.50	9,878.0	-6,839.2	403.3	-1,615.0	2.35	-0.74	2.23
16,809.0	89.10	181.10	9,878.3	-6,934.1	401.1	-1,629.8	1.53	-1.47	-0.42
16,903.0	88.70	181.20	9,880.1	-7,028.1	399.2	-1,644.7	0.44	-0.43	0.11
16,998.0	89.30	181.50	9,881.8	-7,123.1	397.0	-1,659.4	0.71	0.63	0.32
17,091.0	88.50	181.40	9,883.6	-7,216.0	394.7	-1,673.7	0.87	-0.86	-0.11
17,184.0	90.70	180.20	9,884.2	-7,309.0	393.4	-1,688.9	2.69	2.37	-1.29
17,278.0	92.40	180.40	9,881.7	-7,403.0	392.9	-1,705.2	1.82	1.81	0.21
17,333.0	92.40	180.60	9,879.4	-7,457.9	392.4	-1,714.5	0.36	0.00	0.36
17,385.0	92.40	180.60	9,877.2	-7,509.9	391.8	-1,723.2	0.00	0.00	0.00

17385.0' Projected to Bit - PBHL Cast Away 6 B2BW St Com 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1,864.0	1,864.0	0.3	-1.4	1864.0' Phoenix Gyro
17,385.0	9,877.2	-7,509.9	391.8	17385.0' Projected to Bit



Microsoft
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Cast Away 6 B2BW St Com Unit 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Site:	Section 6-21S-35E Cast Away 6 B2BW St Com Unit 1H	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

STRYKER

DIRECTIONAL

January 22, 2019

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

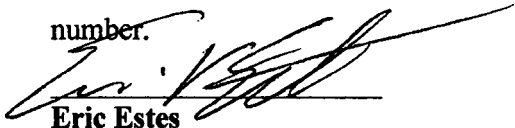
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Cast Away 6 B2BW State Com Unit #001H
2nd Bone Spring Sand (B2)
Lea County, New Mexico
API# 30-025-45059

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>
Keith Broussard	Original Hole	1,988ft. to 17,333ft.	11-01-18 to 12-08-18	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\Cast Away 6 B2BW State Com Unit #1H\M181142

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



January 22, 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 November 1, 2018, through December 8, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,988feet to a depth of 17,333feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Cast Away 6 B2BW State Com Unit #001H, well API # **30-025-45059** in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



Microsoft MWD Surveys



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Cast Away 6 B2BW St Com Unit 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Site:	Section 6-21S-35E Cast Away 6 B2BW St Com L	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey Program		Date	12/11/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	1,864.0	Phoenix Tech Gyro Survey #1 (Original H	GyroFlex		
1,988.0	17,385.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,864.0	0.04	231.11	1,864.0	1,825.0	0.3	-1.4	1.5	280.26	Tie-In
1,988.0	1.90	43.30	1,988.0	1,701.0	1.7	-0.1	1.7	358.04	
2,083.0	5.10	46.10	2,082.8	1,606.2	5.8	4.1	7.1	35.00	
2,272.0	5.90	46.60	2,270.9	1,418.1	18.3	17.2	25.1	43.18	
2,460.0	6.20	61.10	2,457.9	1,231.1	29.8	33.1	44.6	47.94	
2,649.0	3.30	99.60	2,646.2	1,042.8	33.9	47.4	58.3	54.44	
2,838.0	3.00	104.80	2,835.0	854.0	31.7	57.5	65.7	61.14	
3,027.0	4.90	67.70	3,023.5	665.5	33.5	69.8	77.4	64.35	
3,213.0	4.10	62.00	3,209.0	480.0	39.6	83.0	92.0	64.47	
3,401.0	3.40	56.40	3,396.5	292.5	45.9	93.6	104.2	63.88	
3,589.0	2.90	53.30	3,584.3	104.7	51.8	102.0	114.4	63.08	
3,777.0	2.90	60.00	3,772.0	-83.0	57.0	110.0	123.9	62.59	
3,966.0	2.80	62.20	3,960.8	-271.8	61.6	118.2	133.3	62.48	
4,154.0	2.80	67.50	4,148.6	-459.6	65.5	126.5	142.4	62.64	
4,342.0	3.20	71.20	4,336.3	-647.3	68.9	135.7	152.2	63.08	
4,530.0	2.90	63.90	4,524.0	-835.0	72.7	145.0	162.2	63.36	
4,720.0	3.00	58.40	4,713.8	-1,024.8	77.4	153.5	171.9	63.23	
4,908.0	3.10	63.40	4,901.5	-1,212.5	82.3	162.2	181.9	63.11	
5,095.0	3.00	67.30	5,088.3	-1,399.3	86.4	171.3	191.8	63.22	
5,270.0	3.30	64.10	5,263.0	-1,574.0	90.4	180.0	201.4	63.34	
5,377.0	3.90	57.30	5,369.8	-1,680.8	93.7	185.9	208.1	63.24	



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 6-21S-35E Cast Away 6 B2BW St Com L
Well: Cast Away 6 B2BW St Com Unit 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Cast Away 6 B2BW St Com Unit 1H
TVD Reference: 3662 + 27 @ 3689.0usft (Patterson 242)
MD Reference: 3662 + 27 @ 3689.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
5,566.0	2.60	28.10	5,558.5	-1,869.5	101.0	193.3	218.1	62.42
5,755.0	2.70	23.30	5,747.3	-2,058.3	108.8	197.1	225.1	61.09
5,943.0	2.90	18.90	5,935.1	-2,246.1	117.4	200.4	232.2	59.63
6,130.0	2.70	16.80	6,121.8	-2,432.8	126.1	203.2	239.1	58.18
6,318.0	4.00	43.10	6,309.5	-2,620.5	135.1	208.9	248.8	57.11
6,506.0	3.70	45.60	6,497.1	-2,808.1	144.2	217.7	261.1	56.49
6,695.0	4.20	48.30	6,685.6	-2,996.6	153.0	227.3	274.0	56.05
6,883.0	2.80	53.30	6,873.3	-3,184.3	160.3	236.1	285.4	55.82
7,071.0	2.50	66.30	7,061.1	-3,372.1	164.7	243.5	294.0	55.92
7,259.0	2.70	42.10	7,248.9	-3,559.9	169.7	250.2	302.3	55.86
7,446.0	3.50	41.20	7,435.6	-3,746.6	177.2	257.0	312.2	55.40
7,633.0	2.90	51.10	7,622.3	-3,933.3	184.5	264.4	322.4	55.09
7,820.0	2.60	49.60	7,809.1	-4,120.1	190.2	271.3	331.4	54.97
8,008.0	2.30	50.50	7,997.0	-4,308.0	195.4	277.5	339.4	54.85
8,196.0	3.30	62.90	8,184.7	-4,495.7	200.2	285.2	348.5	54.93
8,384.0	3.00	80.50	8,372.4	-4,683.4	203.5	294.9	358.3	55.39
8,573.0	2.90	81.00	8,561.2	-4,872.2	205.1	304.5	367.1	56.04
8,761.0	1.90	95.50	8,749.0	-5,060.0	205.5	312.3	373.8	56.65
8,902.0	0.70	111.60	8,890.0	-5,201.0	205.0	315.4	376.2	56.98
9,090.0	0.90	125.70	9,078.0	-5,389.0	203.7	317.7	377.4	57.33
9,276.0	0.50	69.20	9,264.0	-5,575.0	203.1	319.6	378.7	57.56
9,311.9	0.50	72.52	9,299.9	-5,610.9	203.2	319.9	379.0	57.57
B.B. Cast Away 6 B2BW St Com 1H								
9,369.0	0.50	77.80	9,357.0	-5,668.0	203.4	320.4	379.5	57.59
9,400.0	1.60	133.50	9,388.0	-5,699.0	203.1	320.8	379.7	57.66
9,431.0	4.70	153.50	9,418.9	-5,729.9	201.7	321.7	379.7	57.92
9,463.0	8.50	160.80	9,450.7	-5,761.7	198.3	323.1	379.1	58.46

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Cast Away 6 B2BW St Com Unit 1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Site:	Section 6-21S-35E Cast Away 6 B2BW St Com L	MD Reference:	3662 + 27 @ 3689.0usft (Patterson 242)
Well:	Cast Away 6 B2BW St Com Unit 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,494.0	11.90	166.20	9,481.2	-5,792.2	193.0	324.6	377.6	59.27	
9,525.0	15.80	167.90	9,511.3	-5,822.3	185.8	326.2	375.4	60.34	
9,557.0	20.40	171.10	9,541.7	-5,852.7	176.0	328.0	372.2	61.79	
9,588.0	24.80	173.60	9,570.3	-5,881.3	164.2	329.6	368.2	63.52	
9,620.0	28.80	176.10	9,598.9	-5,909.9	149.8	330.8	363.2	65.64	
9,651.0	32.00	178.30	9,625.6	-5,936.6	134.1	331.6	357.7	67.97	
9,683.0	34.90	179.50	9,652.3	-5,963.3	116.5	331.9	351.8	70.66	
9,714.0	37.10	179.60	9,677.4	-5,988.4	98.3	332.1	346.3	73.51	
9,746.0	40.00	179.80	9,702.4	-6,013.4	78.4	332.2	341.3	76.73	
9,777.0	44.20	179.50	9,725.4	-6,036.4	57.6	332.3	337.3	80.17	
9,809.0	48.90	178.50	9,747.4	-6,058.4	34.4	332.7	334.5	84.10	
9,840.0	52.50	178.50	9,767.0	-6,078.0	10.4	333.3	333.5	88.22	
9,871.0	56.70	178.80	9,785.0	-6,096.0	-14.9	333.9	334.3	92.55	
9,903.0	60.80	179.20	9,801.6	-6,112.6	-42.2	334.4	337.1	97.20	
9,934.0	65.40	180.10	9,815.6	-6,126.6	-69.9	334.6	341.8	101.79	
9,966.0	69.50	180.10	9,827.9	-6,138.9	-99.4	334.5	349.0	106.55	
9,997.0	72.30	180.10	9,838.0	-6,149.0	-128.7	334.5	358.4	111.05	
10,028.0	76.10	180.30	9,846.5	-6,157.5	-158.5	334.4	370.0	115.36	
10,060.0	80.20	180.10	9,853.0	-6,164.0	-189.8	334.3	384.4	119.59	
10,098.0	82.40	179.80	9,858.8	-6,169.8	-227.4	334.3	404.3	124.22	
10,121.1	84.90	179.47	9,861.3	-6,172.3	-250.3	334.4	417.7	126.81	
LP Cast Away 6 B2BW St Com 1H									
10,133.0	86.20	179.30	9,862.2	-6,173.2	-262.2	334.6	425.1	128.09	
10,226.0	90.00	179.00	9,865.3	-6,176.3	-355.1	336.0	488.9	136.59	
10,320.0	90.10	179.00	9,865.2	-6,176.2	-449.1	337.6	561.9	143.07	
10,414.0	90.00	179.30	9,865.2	-6,176.2	-543.1	339.0	640.2	148.03	
10,508.0	91.70	179.40	9,863.8	-6,174.8	-637.1	340.1	722.2	151.91	

Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 6-21S-35E Cast Away 6 B2BW St Com L
Well: Cast Away 6 B2BW St Com Unit 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Cast Away 6 B2BW St Com Unit 1H
TVD Reference: 3662 + 27 @ 3689.0usft (Patterson 242)
MD Reference: 3662 + 27 @ 3689.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,601.0	92.10	179.70	9,860.7	-6,171.7	-730.0	340.8	805.7	154.98
10,695.0	94.10	179.90	9,855.6	-6,166.6	-823.9	341.1	891.7	157.51
10,789.0	93.10	180.10	9,849.7	-6,160.7	-917.7	341.1	979.0	159.61
10,883.0	90.80	179.70	9,846.5	-6,157.5	-1,011.6	341.3	1,067.7	161.36
10,977.0	91.10	179.40	9,844.9	-6,155.9	-1,105.6	342.0	1,157.3	162.81
11,071.0	90.90	178.60	9,843.3	-6,154.3	-1,199.6	343.7	1,247.9	164.01
11,165.0	90.80	177.70	9,842.1	-6,153.1	-1,293.5	346.7	1,339.2	165.00
11,260.0	92.00	179.10	9,839.9	-6,150.9	-1,388.5	349.3	1,431.7	165.88
11,354.0	90.90	179.30	9,837.5	-6,148.5	-1,482.4	350.7	1,523.3	166.69
11,448.0	89.30	179.50	9,837.4	-6,148.4	-1,576.4	351.6	1,615.2	167.43
11,541.0	88.80	178.90	9,838.9	-6,149.9	-1,669.4	352.9	1,706.3	168.06
11,635.0	89.30	178.80	9,840.5	-6,151.5	-1,763.4	354.8	1,798.7	168.62
11,729.0	90.90	178.30	9,840.3	-6,151.3	-1,857.3	357.2	1,891.4	169.11
11,823.0	90.20	176.50	9,839.4	-6,150.4	-1,951.2	361.5	1,984.4	169.50
11,918.0	90.30	179.60	9,839.0	-6,150.0	-2,046.2	364.7	2,078.4	169.89
12,011.0	90.50	178.30	9,838.3	-6,149.3	-2,139.1	366.4	2,170.3	170.28
12,105.0	90.00	179.40	9,837.9	-6,148.9	-2,233.1	368.3	2,263.3	170.64
12,199.0	88.40	178.70	9,839.2	-6,150.2	-2,327.1	369.8	2,356.3	170.97
12,293.0	90.10	181.60	9,840.5	-6,151.5	-2,421.1	369.6	2,449.1	171.32
12,388.0	89.10	180.70	9,841.1	-6,152.1	-2,516.1	367.7	2,542.8	171.69
12,481.0	88.40	180.50	9,843.2	-6,154.2	-2,609.0	366.7	2,634.7	172.00
12,576.0	89.50	179.50	9,844.9	-6,155.9	-2,704.0	366.7	2,728.8	172.28
12,669.0	91.20	178.80	9,844.3	-6,155.3	-2,797.0	368.1	2,821.1	172.50
12,764.0	91.90	178.20	9,841.8	-6,152.8	-2,891.9	370.6	2,915.6	172.70
12,859.0	92.60	179.50	9,838.0	-6,149.0	-2,986.8	372.5	3,010.0	172.89
12,952.0	89.50	179.50	9,836.3	-6,147.3	-3,079.8	373.3	3,102.3	173.09
13,047.0	88.80	179.20	9,837.7	-6,148.7	-3,174.8	374.4	3,196.8	173.27

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Design: Original Hole

Local Co-ordinate Reference: Well Cast Away 6 B2BW St Com Unit 1H
TVD Reference: 3662 + 27 @ 3689.0usft (Patterson 242)
MD Reference: 3662 + 27 @ 3689.0usft (Patterson 242)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,141.0	87.00	177.70	9,841.2	-6,152.2	-3,268.7	376.9	3,290.3	173.42
13,235.0	89.20	178.20	9,844.3	-6,155.3	-3,362.6	380.3	3,384.0	173.55
13,329.0	87.80	177.70	9,846.8	-6,157.8	-3,456.5	383.6	3,477.7	173.67
13,423.0	90.50	178.50	9,848.2	-6,159.2	-3,550.4	386.8	3,571.4	173.78
13,517.0	90.80	177.90	9,847.1	-6,158.1	-3,644.3	389.7	3,665.1	173.90
13,611.0	90.90	178.10	9,845.7	-6,156.7	-3,738.3	393.0	3,758.9	174.00
13,705.0	88.80	179.00	9,846.0	-6,157.0	-3,832.2	395.4	3,852.6	174.11
13,799.0	86.80	178.30	9,849.6	-6,160.6	-3,926.1	397.6	3,946.2	174.22
13,893.0	87.90	179.80	9,853.9	-6,164.9	-4,020.0	399.1	4,039.8	174.33
13,986.0	90.80	180.40	9,855.0	-6,166.0	-4,113.0	399.0	4,132.3	174.46
14,080.0	91.40	179.10	9,853.2	-6,164.2	-4,207.0	399.4	4,225.9	174.58
14,174.0	89.90	179.70	9,852.1	-6,163.1	-4,301.0	400.4	4,319.6	174.68
14,268.0	89.40	178.50	9,852.7	-6,163.7	-4,394.9	401.8	4,413.3	174.78
14,362.0	87.60	178.30	9,855.1	-6,166.1	-4,488.9	404.5	4,507.1	174.85
14,456.0	86.00	180.10	9,860.4	-6,171.4	-4,582.7	405.8	4,600.6	174.94
14,550.0	89.00	181.20	9,864.5	-6,175.5	-4,676.6	404.7	4,694.1	175.05
14,644.0	92.80	181.90	9,863.0	-6,174.0	-4,770.5	402.2	4,787.5	175.18
14,738.0	91.20	181.40	9,859.7	-6,170.7	-4,864.4	399.5	4,880.8	175.31
14,833.0	90.20	182.10	9,858.6	-6,169.6	-4,959.4	396.6	4,975.2	175.43
14,926.0	90.00	182.00	9,858.4	-6,169.4	-5,052.3	393.2	5,067.6	175.55
15,021.0	89.10	182.70	9,859.1	-6,170.1	-5,147.2	389.3	5,161.9	175.67
15,115.0	88.10	182.60	9,861.4	-6,172.4	-5,241.1	385.0	5,255.2	175.80
15,209.0	89.20	179.40	9,863.6	-6,174.6	-5,335.1	383.4	5,348.8	175.89
15,303.0	88.50	177.50	9,865.5	-6,176.5	-5,429.0	385.9	5,442.7	175.93
15,397.0	91.70	177.80	9,865.4	-6,176.4	-5,522.9	389.8	5,536.6	175.96
15,491.0	89.80	179.70	9,864.1	-6,175.1	-5,616.9	391.8	5,630.5	176.01
15,586.0	88.80	180.10	9,865.3	-6,176.3	-5,711.9	392.0	5,725.3	176.07



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N. M. Nad (83)
Site: Section 6-21S-35E Cast Away 6 B2BW St Com L
Well: Cast Away 6 B2BW St Com Unit 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Cast Away 6 B2BW St Com Unit 1H
TVD Reference: 3662 + 27 @ 3689.0usft (Patterson 242)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,679.0	89.90	181.30	9,866.4	-6,177.4	-5,804.8	390.8	5,818.0	176.15
15,774.0	90.50	181.90	9,866.0	-6,177.0	-5,899.8	388.2	5,912.6	176.24
15,868.0	89.00	180.80	9,866.4	-6,177.4	-5,993.8	386.0	6,006.2	176.32
15,961.0	87.70	179.90	9,869.1	-6,180.1	-6,086.7	385.4	6,098.9	176.38
16,056.0	88.40	179.40	9,872.3	-6,183.3	-6,181.7	386.0	6,193.7	176.43
16,150.0	87.50	178.80	9,875.7	-6,186.7	-6,275.6	387.5	6,287.6	176.47
16,244.0	89.10	177.10	9,878.5	-6,189.5	-6,369.5	390.8	6,381.5	176.49
16,338.0	88.70	177.00	9,880.3	-6,191.3	-6,463.4	395.7	6,475.5	176.50
16,421.0	89.80	178.00	9,881.4	-6,192.4	-6,546.3	399.3	6,558.4	176.51
16,526.0	90.70	178.60	9,880.9	-6,191.9	-6,651.2	402.4	6,663.4	176.54
16,620.0	91.20	179.40	9,879.4	-6,190.4	-6,745.2	404.0	6,757.3	176.57
16,714.0	90.50	181.50	9,878.0	-6,189.0	-6,839.2	403.3	6,851.0	176.63
16,809.0	89.10	181.10	9,878.3	-6,189.3	-6,934.1	401.1	6,945.7	176.69
16,903.0	88.70	181.20	9,880.1	-6,191.1	-7,028.1	399.2	7,039.4	176.75
16,998.0	89.30	181.50	9,881.8	-6,192.8	-7,123.1	397.0	7,134.1	176.81
17,091.0	88.50	181.40	9,883.6	-6,194.6	-7,216.0	394.7	7,226.8	176.87
17,184.0	90.70	180.20	9,884.2	-6,195.2	-7,309.0	393.4	7,319.6	176.92
17,278.0	92.40	180.40	9,881.7	-6,192.7	-7,403.0	392.9	7,413.4	176.96
17,333.0	92.40	180.60	9,879.4	-6,190.4	-7,457.9	392.4	7,468.2	176.99
17,385.0	92.40	180.60	9,877.2	-6,188.2	-7,509.9	391.8	7,520.1	177.01

17385.0' Projected to Bit - PBHL Cast Away 6 B2BW St Com 1H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
17,385.0	9,877.2	-7,509.9	391.8	17385.0' Projected to Bit