

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Loco Hills 1/2 B2AB Fed Com #1H

Sec 36, T17S, R30E

SL: 300' FSL & 400' FEL, Sec 36

BHL: 660' FNL & 2538' FEL, Sec 2

Plan: Design #1

Standard Planning Report

16 August, 2018

ATTACHMENT

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Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Loco Hills 1/2 B2AB Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3625.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3625.0usft (Original Well Elev)
Site:	Loco Hills 1/2 B2AB Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T17S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL & 2538' FEL, Sec 2		
Design:	Design #1		

Project	Eddy County, New Mexico 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		Loco Hills 1/2 B2AB Fed Com #1H			
Site Position:		Northing:	649,387.00 usft	Latitude:	32.7845092
From:	Map	Easting:	668,931.00 usft	Longitude:	-103.9181531
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.22 °

Well	Sec 36, T17S, R30E					
Well Position	+N/-S	0.0 usft	Northing:	649,387.00 usft	Latitude:	32.7845092
	+E/-W	0.0 usft	Easting:	668,931.00 usft	Longitude:	-103.9181531
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,625.0 usft	Ground Level:	3,598.0 usft

Wellbore	BHL: 660' FNL & 2538' FEL, Sec 2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/16/2018	6.90	60.46	48,197

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	262.48

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,232.1	9.48	157.72	1,229.2	-48.3	19.8	1.50	1.50	0.00	157.72	
6,890.5	9.48	157.72	6,810.4	-910.7	373.2	0.00	0.00	0.00	0.00	
7,522.6	0.00	0.00	7,439.5	-959.0	393.0	1.50	-1.50	0.00	180.00	KOP: 660' FNL & 10' I
8,277.2	90.55	269.85	7,917.0	-960.2	-89.0	12.00	12.00	0.00	-90.15	
15,601.5	90.55	269.85	7,847.0	-979.0	-7,413.0	0.00	0.00	0.00	0.00	BHL: 660' FNL & 2538'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Loco Hills 1/2 B2AB Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3625.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3625.0usft (Original Well Elev)
Site:	Loco Hills 1/2 B2AB Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T17S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL & 2538' FEL, Sec 2		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 300' FSL & 400' FEL, Sec 36									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	157.72	700.0	-1.2	0.5	-0.3	1.50	1.50	0.00
800.0	3.00	157.72	799.9	-4.8	2.0	-1.3	1.50	1.50	0.00
900.0	4.50	157.72	899.7	-10.9	4.5	-3.0	1.50	1.50	0.00
1,000.0	6.00	157.72	999.3	-19.4	7.9	-5.3	1.50	1.50	0.00
1,100.0	7.50	157.72	1,098.6	-30.2	12.4	-8.3	1.50	1.50	0.00
1,200.0	9.00	157.72	1,197.5	-43.5	17.8	-12.0	1.50	1.50	0.00
1,232.1	9.48	157.72	1,229.2	-48.3	19.8	-13.3	1.50	1.50	0.00
1,300.0	9.48	157.72	1,296.2	-58.6	24.0	-16.1	0.00	0.00	0.00
1,400.0	9.48	157.72	1,394.8	-73.9	30.3	-20.3	0.00	0.00	0.00
1,500.0	9.48	157.72	1,493.5	-89.1	36.5	-24.5	0.00	0.00	0.00
1,600.0	9.48	157.72	1,592.1	-104.4	42.8	-28.7	0.00	0.00	0.00
1,700.0	9.48	157.72	1,690.7	-119.6	49.0	-32.9	0.00	0.00	0.00
1,800.0	9.48	157.72	1,789.4	-134.8	55.3	-37.1	0.00	0.00	0.00
1,900.0	9.48	157.72	1,888.0	-150.1	61.5	-41.3	0.00	0.00	0.00
2,000.0	9.48	157.72	1,986.6	-165.3	67.8	-45.5	0.00	0.00	0.00
2,100.0	9.48	157.72	2,085.3	-180.6	74.0	-49.7	0.00	0.00	0.00
2,200.0	9.48	157.72	2,183.9	-195.8	80.2	-53.9	0.00	0.00	0.00
2,300.0	9.48	157.72	2,282.5	-211.0	86.5	-58.1	0.00	0.00	0.00
2,400.0	9.48	157.72	2,381.2	-226.3	92.7	-62.3	0.00	0.00	0.00
2,500.0	9.48	157.72	2,479.8	-241.5	99.0	-66.5	0.00	0.00	0.00
2,600.0	9.48	157.72	2,578.4	-256.8	105.2	-70.7	0.00	0.00	0.00
2,700.0	9.48	157.72	2,677.1	-272.0	111.5	-74.9	0.00	0.00	0.00
2,800.0	9.48	157.72	2,775.7	-287.3	117.7	-79.1	0.00	0.00	0.00
2,900.0	9.48	157.72	2,874.3	-302.5	124.0	-83.3	0.00	0.00	0.00
3,000.0	9.48	157.72	2,973.0	-317.7	130.2	-87.5	0.00	0.00	0.00
3,100.0	9.48	157.72	3,071.6	-333.0	136.5	-91.7	0.00	0.00	0.00
3,200.0	9.48	157.72	3,170.2	-348.2	142.7	-95.9	0.00	0.00	0.00
3,300.0	9.48	157.72	3,268.9	-363.5	148.9	-100.1	0.00	0.00	0.00
3,400.0	9.48	157.72	3,367.5	-378.7	155.2	-104.3	0.00	0.00	0.00
3,500.0	9.48	157.72	3,466.1	-393.9	161.4	-108.5	0.00	0.00	0.00
3,600.0	9.48	157.72	3,564.8	-409.2	167.7	-112.7	0.00	0.00	0.00
3,700.0	9.48	157.72	3,663.4	-424.4	173.9	-116.9	0.00	0.00	0.00
3,800.0	9.48	157.72	3,762.0	-439.7	180.2	-121.1	0.00	0.00	0.00
3,900.0	9.48	157.72	3,860.7	-454.9	186.4	-125.3	0.00	0.00	0.00
4,000.0	9.48	157.72	3,959.3	-470.2	192.7	-129.5	0.00	0.00	0.00
4,100.0	9.48	157.72	4,057.9	-485.4	198.9	-133.7	0.00	0.00	0.00
4,200.0	9.48	157.72	4,156.6	-500.6	205.2	-137.8	0.00	0.00	0.00
4,300.0	9.48	157.72	4,255.2	-515.9	211.4	-142.0	0.00	0.00	0.00
4,400.0	9.48	157.72	4,353.8	-531.1	217.7	-146.2	0.00	0.00	0.00
4,500.0	9.48	157.72	4,452.5	-546.4	223.9	-150.4	0.00	0.00	0.00
4,600.0	9.48	157.72	4,551.1	-561.6	230.1	-154.6	0.00	0.00	0.00
4,700.0	9.48	157.72	4,649.7	-576.8	236.4	-158.8	0.00	0.00	0.00
4,800.0	9.48	157.72	4,748.4	-592.1	242.6	-163.0	0.00	0.00	0.00
4,900.0	9.48	157.72	4,847.0	-607.3	248.9	-167.2	0.00	0.00	0.00
5,000.0	9.48	157.72	4,945.7	-622.6	255.1	-171.4	0.00	0.00	0.00
5,100.0	9.48	157.72	5,044.3	-637.8	261.4	-175.6	0.00	0.00	0.00

Planning Report

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Site:	Loco Hills 1/2 B2AB Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T17S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL & 2538' FEL, Sec 2		
Design:	Design #1		

Planned 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)	
5,200.0	9.48	157.72	5,142.9	-653.1	267.6	-179.8	0.00	0.00	0.00	
5,300.0	9.48	157.72	5,241.6	-668.3	273.9	-184.0	0.00	0.00	0.00	
5,400.0	9.48	157.72	5,340.2	-683.5	280.1	-188.2	0.00	0.00	0.00	
5,500.0	9.48	157.72	5,438.8	-698.8	286.4	-192.4	0.00	0.00	0.00	
5,600.0	9.48	157.72	5,537.5	-714.0	292.6	-196.6	0.00	0.00	0.00	
5,700.0	9.48	157.72	5,636.1	-729.3	298.9	-200.8	0.00	0.00	0.00	
5,800.0	9.48	157.72	5,734.7	-744.5	305.1	-205.0	0.00	0.00	0.00	
5,900.0	9.48	157.72	5,833.4	-759.7	311.3	-209.2	0.00	0.00	0.00	
6,000.0	9.48	157.72	5,932.0	-775.0	317.6	-213.4	0.00	0.00	0.00	
6,100.0	9.48	157.72	6,030.6	-790.2	323.8	-217.6	0.00	0.00	0.00	
6,200.0	9.48	157.72	6,129.3	-805.5	330.1	-221.8	0.00	0.00	0.00	
6,300.0	9.48	157.72	6,227.9	-820.7	336.3	-226.0	0.00	0.00	0.00	
6,400.0	9.48	157.72	6,326.5	-836.0	342.6	-230.2	0.00	0.00	0.00	
6,500.0	9.48	157.72	6,425.2	-851.2	348.8	-234.4	0.00	0.00	0.00	
6,600.0	9.48	157.72	6,523.8	-866.4	355.1	-238.6	0.00	0.00	0.00	
6,700.0	9.48	157.72	6,622.4	-881.7	361.3	-242.8	0.00	0.00	0.00	
6,800.0	9.48	157.72	6,721.1	-896.9	367.6	-247.0	0.00	0.00	0.00	
6,890.5	9.48	157.72	6,810.4	-910.7	373.2	-250.8	0.00	0.00	0.00	
6,900.0	9.34	157.72	6,819.7	-912.2	373.8	-251.2	1.50	-1.50	0.00	
7,000.0	7.84	157.72	6,918.6	-926.0	379.5	-255.0	1.50	-1.50	0.00	
7,100.0	6.34	157.72	7,017.8	-937.4	384.1	-258.1	1.50	-1.50	0.00	
7,200.0	4.84	157.72	7,117.3	-946.4	387.8	-260.6	1.50	-1.50	0.00	
7,300.0	3.34	157.72	7,217.1	-953.0	390.5	-262.4	1.50	-1.50	0.00	
7,400.0	1.84	157.72	7,317.0	-957.2	392.3	-263.6	1.50	-1.50	0.00	
7,500.0	0.34	157.72	7,416.9	-958.9	393.0	-264.0	1.50	-1.50	0.00	
7,522.6	0.00	0.00	7,439.5	-959.0	393.0	-264.1	1.50	-1.50	0.00	
KOP: 660' FNL & 10' FEL, Sec 1										
7,600.0	9.29	269.85	7,516.6	-959.0	386.7	-257.8	12.00	12.00	0.00	
7,700.0	21.29	269.85	7,612.9	-959.1	360.4	-231.7	12.00	12.00	0.00	
7,800.0	33.29	269.85	7,701.6	-959.2	314.7	-186.4	12.00	12.00	0.00	
7,825.6	36.36	269.85	7,722.6	-959.2	300.0	-171.8	12.00	12.00	0.00	
FTP: 660' FNL & 100' FEL, Sec 1										
7,900.0	45.29	269.85	7,778.9	-959.4	251.5	-123.7	12.00	12.00	0.00	
8,000.0	57.29	269.85	7,841.3	-959.6	173.6	-46.4	12.00	12.00	0.00	
8,100.0	69.29	269.85	7,886.2	-959.8	84.4	42.0	12.00	12.00	0.00	
8,200.0	81.29	269.85	7,911.5	-960.0	-12.1	137.7	12.00	12.00	0.00	
8,277.1	90.54	269.85	7,917.0	-960.2	-89.0	214.0	12.00	12.00	0.00	
LP: 660' FNL & 489' FEL, Sec 1										
8,300.0	90.55	269.85	7,916.8	-960.3	-111.9	236.6	0.02	0.02	0.00	
8,400.0	90.55	269.85	7,915.8	-960.5	-211.9	335.8	0.00	0.00	0.00	
8,500.0	90.55	269.85	7,914.9	-960.8	-311.9	435.0	0.00	0.00	0.00	
8,600.0	90.55	269.85	7,913.9	-961.1	-411.8	534.1	0.00	0.00	0.00	
8,700.0	90.55	269.85	7,913.0	-961.3	-511.8	633.3	0.00	0.00	0.00	
8,800.0	90.55	269.85	7,912.0	-961.6	-611.8	732.5	0.00	0.00	0.00	
8,900.0	90.55	269.85	7,911.0	-961.8	-711.8	831.6	0.00	0.00	0.00	
9,000.0	90.55	269.85	7,910.1	-962.1	-811.8	930.8	0.00	0.00	0.00	
9,100.0	90.55	269.85	7,909.1	-962.3	-911.8	1,030.0	0.00	0.00	0.00	
9,200.0	90.55	269.85	7,908.2	-962.6	-1,011.8	1,129.1	0.00	0.00	0.00	
9,300.0	90.55	269.85	7,907.2	-962.9	-1,111.8	1,228.3	0.00	0.00	0.00	
9,400.0	90.55	269.85	7,906.3	-963.1	-1,211.8	1,327.5	0.00	0.00	0.00	
9,500.0	90.55	269.85	7,905.3	-963.4	-1,311.8	1,426.6	0.00	0.00	0.00	
9,600.0	90.55	269.85	7,904.4	-963.6	-1,411.8	1,525.8	0.00	0.00	0.00	
9,700.0	90.55	269.85	7,903.4	-963.9	-1,511.8	1,625.0	0.00	0.00	0.00	

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Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3625.0usft (Original Well Elev)
Site:	Loco Hills 1/2 B2AB Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T17S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL & 2538' FEL, Sec 2		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,800.0	90.55	269.85	7,902.4	-964.1	-1,611.8	1,724.1	0.00	0.00	0.00	
9,900.0	90.55	269.85	7,901.5	-964.4	-1,711.8	1,823.3	0.00	0.00	0.00	
10,000.0	90.55	269.85	7,900.5	-964.6	-1,811.8	1,922.5	0.00	0.00	0.00	
10,100.0	90.55	269.85	7,899.6	-964.9	-1,911.8	2,021.6	0.00	0.00	0.00	
10,200.0	90.55	269.85	7,898.6	-965.2	-2,011.8	2,120.8	0.00	0.00	0.00	
10,300.0	90.55	269.85	7,897.7	-965.4	-2,111.8	2,220.0	0.00	0.00	0.00	
10,400.0	90.55	269.85	7,896.7	-965.7	-2,211.8	2,319.2	0.00	0.00	0.00	
10,500.0	90.55	269.85	7,895.8	-965.9	-2,311.8	2,418.3	0.00	0.00	0.00	
10,600.0	90.55	269.85	7,894.8	-966.2	-2,411.7	2,517.5	0.00	0.00	0.00	
10,700.0	90.55	269.85	7,893.8	-966.4	-2,511.7	2,616.7	0.00	0.00	0.00	
10,800.0	90.55	269.85	7,892.9	-966.7	-2,611.7	2,715.8	0.00	0.00	0.00	
10,900.0	90.55	269.85	7,891.9	-967.0	-2,711.7	2,815.0	0.00	0.00	0.00	
11,000.0	90.55	269.85	7,891.0	-967.2	-2,811.7	2,914.2	0.00	0.00	0.00	
11,100.0	90.55	269.85	7,890.0	-967.5	-2,911.7	3,013.3	0.00	0.00	0.00	
11,200.0	90.55	269.85	7,889.1	-967.7	-3,011.7	3,112.5	0.00	0.00	0.00	
11,300.0	90.55	269.85	7,888.1	-968.0	-3,111.7	3,211.7	0.00	0.00	0.00	
11,400.0	90.55	269.85	7,887.2	-968.2	-3,211.7	3,310.8	0.00	0.00	0.00	
11,500.0	90.55	269.85	7,886.2	-968.5	-3,311.7	3,410.0	0.00	0.00	0.00	
11,600.0	90.55	269.85	7,885.2	-968.7	-3,411.7	3,509.2	0.00	0.00	0.00	
11,700.0	90.55	269.85	7,884.3	-969.0	-3,511.7	3,608.3	0.00	0.00	0.00	
11,800.0	90.55	269.85	7,883.3	-969.3	-3,611.7	3,707.5	0.00	0.00	0.00	
11,900.0	90.55	269.85	7,882.4	-969.5	-3,711.7	3,806.7	0.00	0.00	0.00	
12,000.0	90.55	269.85	7,881.4	-969.8	-3,811.7	3,905.8	0.00	0.00	0.00	
12,100.0	90.55	269.85	7,880.5	-970.0	-3,911.7	4,005.0	0.00	0.00	0.00	
12,200.0	90.55	269.85	7,879.5	-970.3	-4,011.7	4,104.2	0.00	0.00	0.00	
12,300.0	90.55	269.85	7,878.6	-970.5	-4,111.7	4,203.3	0.00	0.00	0.00	
12,400.0	90.55	269.85	7,877.6	-970.8	-4,211.7	4,302.5	0.00	0.00	0.00	
12,500.0	90.55	269.85	7,876.6	-971.1	-4,311.7	4,401.7	0.00	0.00	0.00	
12,600.0	90.55	269.85	7,875.7	-971.3	-4,411.7	4,500.8	0.00	0.00	0.00	
12,700.0	90.55	269.85	7,874.7	-971.6	-4,511.6	4,600.0	0.00	0.00	0.00	
12,800.0	90.55	269.85	7,873.8	-971.8	-4,611.6	4,699.2	0.00	0.00	0.00	
12,900.0	90.55	269.85	7,872.8	-972.1	-4,711.6	4,798.3	0.00	0.00	0.00	
13,000.0	90.55	269.85	7,871.9	-972.3	-4,811.6	4,897.5	0.00	0.00	0.00	
13,063.4	90.55	269.85	7,871.3	-972.5	-4,875.0	4,960.4	0.00	0.00	0.00	
PPP2: 660' FNL & 0' FEL, Sec 2										
13,100.0	90.55	269.85	7,870.9	-972.6	-4,911.6	4,996.7	0.00	0.00	0.00	
13,200.0	90.55	269.85	7,870.0	-972.8	-5,011.6	5,095.9	0.00	0.00	0.00	
13,300.0	90.55	269.85	7,869.0	-973.1	-5,111.6	5,195.0	0.00	0.00	0.00	
13,400.0	90.55	269.85	7,868.0	-973.4	-5,211.6	5,294.2	0.00	0.00	0.00	
13,500.0	90.55	269.85	7,867.1	-973.6	-5,311.6	5,393.4	0.00	0.00	0.00	
13,600.0	90.55	269.85	7,866.1	-973.9	-5,411.6	5,492.5	0.00	0.00	0.00	
13,700.0	90.55	269.85	7,865.2	-974.1	-5,511.6	5,591.7	0.00	0.00	0.00	
13,800.0	90.55	269.85	7,864.2	-974.4	-5,611.6	5,690.9	0.00	0.00	0.00	
13,900.0	90.55	269.85	7,863.3	-974.6	-5,711.6	5,790.0	0.00	0.00	0.00	
14,000.0	90.55	269.85	7,862.3	-974.9	-5,811.6	5,889.2	0.00	0.00	0.00	
14,100.0	90.55	269.85	7,861.4	-975.2	-5,911.6	5,988.4	0.00	0.00	0.00	
14,200.0	90.55	269.85	7,860.4	-975.4	-6,011.6	6,087.5	0.00	0.00	0.00	
14,300.0	90.55	269.85	7,859.4	-975.7	-6,111.6	6,186.7	0.00	0.00	0.00	
14,400.0	90.55	269.85	7,858.5	-975.9	-6,211.6	6,285.9	0.00	0.00	0.00	
14,500.0	90.55	269.85	7,857.5	-976.2	-6,311.6	6,385.0	0.00	0.00	0.00	
14,600.0	90.55	269.85	7,856.6	-976.4	-6,411.6	6,484.2	0.00	0.00	0.00	
14,700.0	90.55	269.85	7,855.6	-976.7	-6,511.5	6,583.4	0.00	0.00	0.00	
14,800.0	90.55	269.85	7,854.7	-976.9	-6,611.5	6,682.5	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Loco Hills 1/2 B2AB Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3625.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3625.0usft (Original Well Elev)
Site:	Loco Hills 1/2 B2AB Fed Com #1H	North Reference:	Grid
Well:	Sec 36, T17S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 660' FNL & 2538' FEL, Sec 2		
Design:	Design #1		

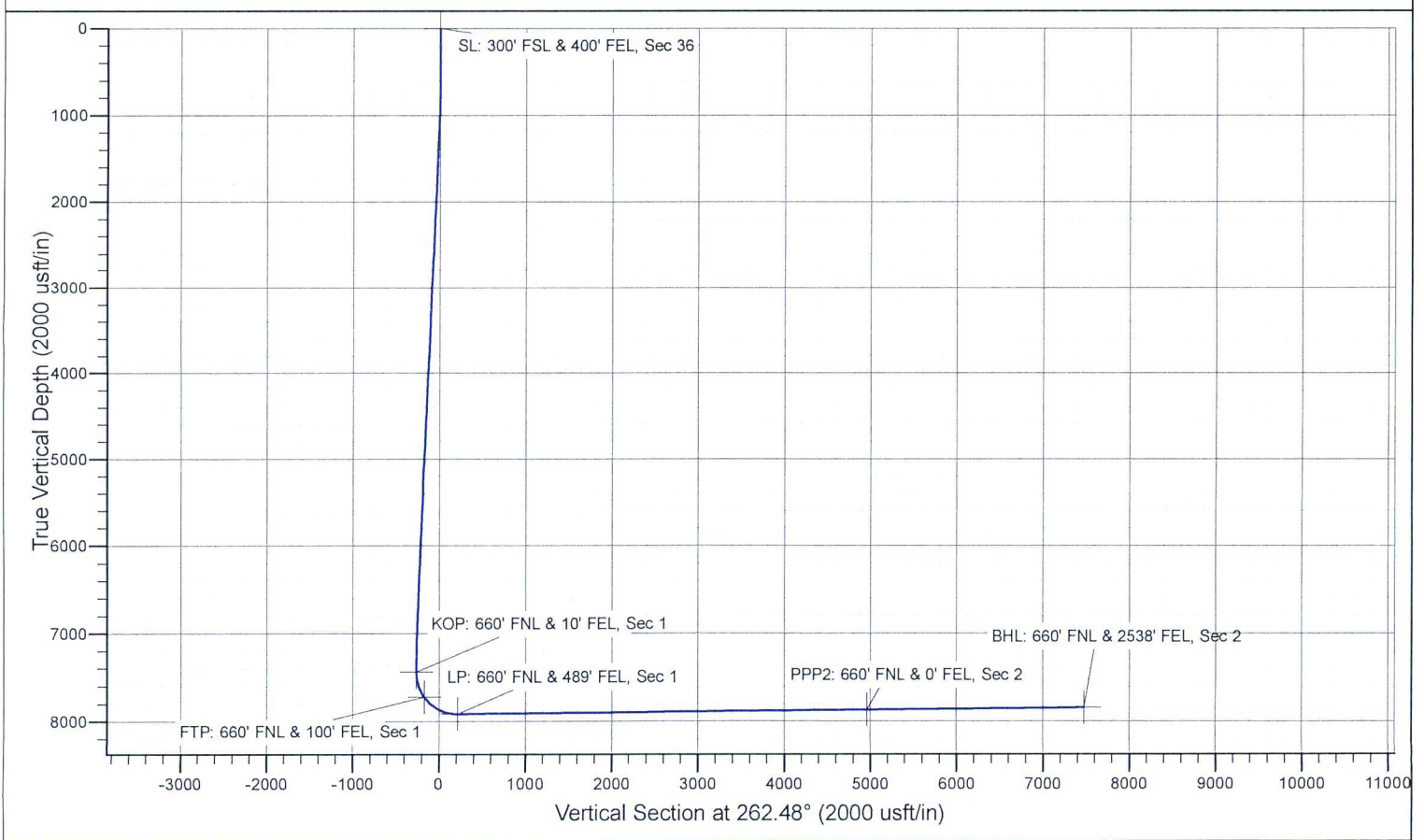
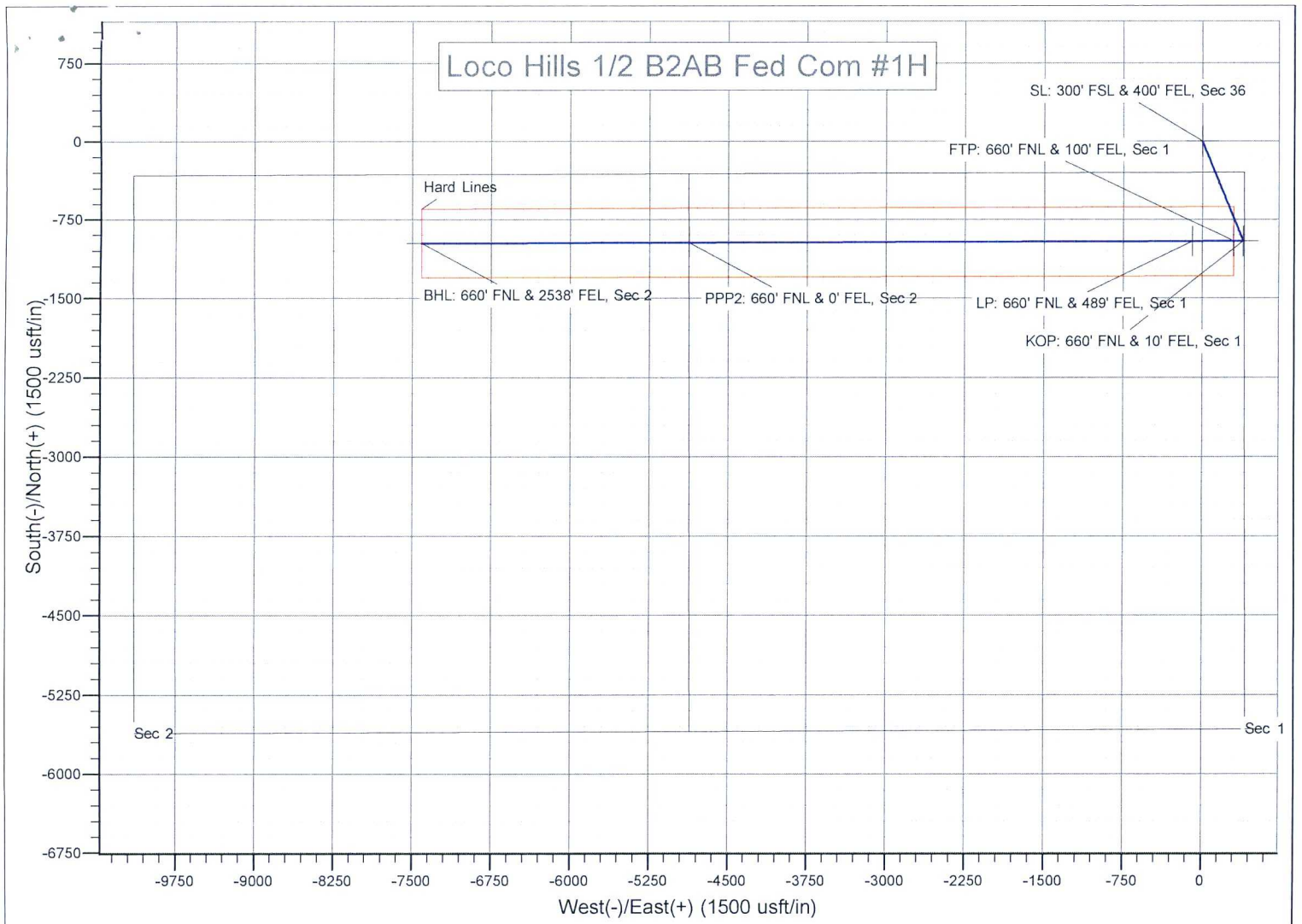
Planned Survey

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)
14,900.0	90.55	269.85	7,853.7	-977.2	-6,711.5	6,781.7	0.00	0.00	0.00
15,000.0	90.55	269.85	7,852.7	-977.5	-6,811.5	6,880.9	0.00	0.00	0.00
15,100.0	90.55	269.85	7,851.8	-977.7	-6,911.5	6,980.0	0.00	0.00	0.00
15,200.0	90.55	269.85	7,850.8	-978.0	-7,011.5	7,079.2	0.00	0.00	0.00
15,300.0	90.55	269.85	7,849.9	-978.2	-7,111.5	7,178.4	0.00	0.00	0.00
15,400.0	90.55	269.85	7,848.9	-978.5	-7,211.5	7,277.5	0.00	0.00	0.00
15,500.0	90.55	269.85	7,848.0	-978.7	-7,311.5	7,376.7	0.00	0.00	0.00
15,600.0	90.55	269.85	7,847.0	-979.0	-7,411.5	7,475.9	0.00	0.00	0.00
15,601.5	90.55	269.85	7,847.0	-979.0	-7,413.0	7,477.4	0.00	0.00	0.00

BHL: 660' FNL & 2538' FEL, Sec 2

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 300' FSL & 400' FEL - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	649,387.00	668,931.00	32.7845092	-103.9181531
KOP: 660' FNL & 10' FE - plan hits target center - Point	0.00	0.00	7,439.5	-959.0	393.0	648,428.00	669,324.00	32.7818691	-103.9168866
FTP: 660' FNL & 100' FE - plan hits target center - Point	0.00	0.00	7,722.7	-959.2	300.0	648,427.77	669,231.00	32.7818694	-103.9171892
BHL: 660' FNL & 2538' F - plan hits target center - Point	0.00	0.00	7,847.0	-979.0	-7,413.0	648,408.00	661,518.00	32.7818960	-103.9422857
PPP2: 660' FNL & 0' FEI - plan hits target center - Point	0.00	0.00	7,871.3	-972.5	-4,875.0	648,414.51	664,056.00	32.7818878	-103.9340276
LP: 660' FNL & 489' FEL - plan hits target center - Point	0.00	0.00	7,917.0	-960.2	-89.0	648,426.80	668,842.00	32.7818710	-103.9184549





16450

Mewbourne Oil Company

Lea County, New Mexico (Nad 83)

Sec 6, T21S, R35E

Cast Away 6 B2BW State Com Unit #1H

Wellbore #1

Plan: Design #1

QES Well Planning Report

17 August, 2018

Attachment E
10/18/18



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Cast Away 6 B2BW State Com Unit #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Patterson #230)
Project:	Lea County, New Mexico (Nad 83)	MD Reference:	WELL @ 3685.0usft (Patterson #230)
Site:	Sec 6, T21S, R35E	North Reference:	Grid
Well:	Cast Away 6 B2BW State Com Unit #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, New Mexico (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		Sec 6, T21S, R35E			
Site Position:		Northing:	554,788.10 usft	Latitude:	32° 31' 18.324 N
From:	Map	Easting:	827,013.70 usft	Longitude:	103° 24' 23.371 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	Cast Away 6 B2BW State Com Unit #1H					
Well Position	+N/-S	0.0 usft	Northing:	554,788.10 usft	Latitude:	32° 31' 18.324 N
	+E/-W	0.0 usft	Easting:	827,013.70 usft	Longitude:	103° 24' 23.371 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,658.0 usft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/17/2018	6.77	60.35	48,009.76447856

Design	Design #1				
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Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	177.17	

Plan Sections											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
5,375.0	0.00	0.00	5,375.0	0.0	0.0	0.00	0.00	0.00	0.00		
5,659.3	5.69	55.30	5,658.8	8.0	11.6	2.00	2.00	0.00	55.30		
9,146.3	5.69	55.30	9,128.7	204.7	295.6	0.00	0.00	0.00	0.00		
9,430.6	0.00	0.00	9,412.5	212.7	307.2	2.00	-2.00	0.00	180.00	VP Cast Away 6 B2	
10,180.6	90.00	179.52	9,890.0	-264.8	311.2	12.00	12.00	23.94	179.52		
17,435.5	90.00	179.52	9,890.0	-7,519.4	371.8	0.00	0.00	0.00	0.00	PBHL Cast Away 6	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Cast Away 6 B2BW State Com Unit #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Patterson #230)
Project:	Lea County, New Mexico (Nad 83)	MD Reference:	WELL @ 3685.0usft (Patterson #230)
Site:	Sec 6, T21S, R35E	North Reference:	Grid
Well:	Cast Away 6 B2BW State Com Unit #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

9 5/8"

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Cast Away 6 B2BW State Com Unit #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Patterson #230)
Project:	Lea County, New Mexico (Nad 83)	MD Reference:	WELL @ 3685.0usft (Patterson #230)
Site:	Sec 6, T21S, R35E	North Reference:	Grid
Well:	Cast Away 6 B2BW State Com Unit #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned 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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 2°/100'									
5,375.0	0.00	0.00	5,375.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.50	55.30	5,400.0	0.1	0.1	-0.1	2.00	2.00	0.00
5,500.0	2.50	55.30	5,500.0	1.6	2.2	-1.4	2.00	2.00	0.00
5,600.0	4.50	55.30	5,599.8	5.0	7.3	-4.7	2.00	2.00	0.00
EOB @ 5.69° Inc / 55.3° Azm									
5,659.3	5.69	55.30	5,658.8	8.0	11.6	-7.4	2.00	2.00	0.00
5,700.0	5.69	55.30	5,699.3	10.3	14.9	-9.6	0.00	0.00	0.00
5,800.0	5.69	55.30	5,798.8	16.0	23.0	-14.8	0.00	0.00	0.00
5,900.0	5.69	55.30	5,898.3	21.6	31.2	-20.0	0.00	0.00	0.00
6,000.0	5.69	55.30	5,997.9	27.2	39.3	-25.3	0.00	0.00	0.00
6,100.0	5.69	55.30	6,097.4	32.9	47.5	-30.5	0.00	0.00	0.00
6,200.0	5.69	55.30	6,196.9	38.5	55.6	-35.7	0.00	0.00	0.00
6,300.0	5.69	55.30	6,296.4	44.2	63.8	-41.0	0.00	0.00	0.00
6,400.0	5.69	55.30	6,395.9	49.8	71.9	-46.2	0.00	0.00	0.00
6,500.0	5.69	55.30	6,495.4	55.4	80.1	-51.4	0.00	0.00	0.00
6,600.0	5.69	55.30	6,594.9	61.1	88.2	-56.6	0.00	0.00	0.00
6,700.0	5.69	55.30	6,694.4	66.7	96.3	-61.9	0.00	0.00	0.00
6,800.0	5.69	55.30	6,793.9	72.4	104.5	-67.1	0.00	0.00	0.00
6,900.0	5.69	55.30	6,893.4	78.0	112.6	-72.3	0.00	0.00	0.00
7,000.0	5.69	55.30	6,992.9	83.6	120.8	-77.6	0.00	0.00	0.00
7,100.0	5.69	55.30	7,092.4	89.3	128.9	-82.8	0.00	0.00	0.00
7,200.0	5.69	55.30	7,192.0	94.9	137.1	-88.0	0.00	0.00	0.00
7,300.0	5.69	55.30	7,291.5	100.6	145.2	-93.3	0.00	0.00	0.00
7,400.0	5.69	55.30	7,391.0	106.2	153.4	-98.5	0.00	0.00	0.00
7,500.0	5.69	55.30	7,490.5	111.8	161.5	-103.7	0.00	0.00	0.00
7,600.0	5.69	55.30	7,590.0	117.5	169.6	-108.9	0.00	0.00	0.00
7,700.0	5.69	55.30	7,689.5	123.1	177.8	-114.2	0.00	0.00	0.00
7,800.0	5.69	55.30	7,789.0	128.7	185.9	-119.4	0.00	0.00	0.00
7,900.0	5.69	55.30	7,888.5	134.4	194.1	-124.6	0.00	0.00	0.00
8,000.0	5.69	55.30	7,988.0	140.0	202.2	-129.9	0.00	0.00	0.00
8,100.0	5.69	55.30	8,087.5	145.7	210.4	-135.1	0.00	0.00	0.00
8,200.0	5.69	55.30	8,187.0	151.3	218.5	-140.3	0.00	0.00	0.00
8,300.0	5.69	55.30	8,286.5	156.9	226.7	-145.6	0.00	0.00	0.00
8,400.0	5.69	55.30	8,386.1	162.6	234.8	-150.8	0.00	0.00	0.00
8,500.0	5.69	55.30	8,485.6	168.2	242.9	-156.0	0.00	0.00	0.00
8,600.0	5.69	55.30	8,585.1	173.9	251.1	-161.2	0.00	0.00	0.00
8,700.0	5.69	55.30	8,684.6	179.5	259.2	-166.5	0.00	0.00	0.00
8,800.0	5.69	55.30	8,784.1	185.1	267.4	-171.7	0.00	0.00	0.00
8,900.0	5.69	55.30	8,883.6	190.8	275.5	-176.9	0.00	0.00	0.00
9,000.0	5.69	55.30	8,983.1	196.4	283.7	-182.2	0.00	0.00	0.00
9,100.0	5.69	55.30	9,082.6	202.1	291.8	-187.4	0.00	0.00	0.00
Drop 2°/100'									
9,146.3	5.69	55.30	9,128.7	204.7	295.6	-189.8	0.00	0.00	0.00
9,200.0	4.61	55.30	9,182.2	207.4	299.5	-192.4	2.00	-2.00	0.00
9,300.0	2.61	55.30	9,282.0	211.0	304.7	-195.7	2.00	-2.00	0.00
9,400.0	0.61	55.30	9,381.9	212.6	307.0	-197.2	2.00	-2.00	0.00
EOD @ Vert / Build 12°/100'									
9,430.6	0.00	0.00	9,412.5	212.7	307.2	-197.3	2.00	-2.00	0.00
9,450.0	2.33	179.52	9,431.9	212.3	307.2	-196.9	12.00	12.00	0.00
9,475.0	5.33	179.52	9,456.9	210.6	307.2	-195.2	12.00	12.00	0.00
9,500.0	8.33	179.52	9,481.7	207.7	307.2	-192.2	12.00	12.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Cast Away 6 B2BW State Com Unit #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Patterson #230)
Project:	Lea County, New Mexico (Nad 83)	MD Reference:	WELL @ 3685.0usft (Patterson #230)
Site:	Sec 6, T21S, R35E	North Reference:	Grid
Well:	Cast Away 6 B2BW State Com Unit #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,525.0	11.33	179.52	9,506.3	203.4	307.3	-188.0	12.00	12.00	0.00
9,550.0	14.33	179.52	9,530.7	197.8	307.3	-182.4	12.00	12.00	0.00
9,575.0	17.33	179.52	9,554.7	191.0	307.4	-175.6	12.00	12.00	0.00
9,600.0	20.33	179.52	9,578.4	183.0	307.4	-167.5	12.00	12.00	0.00
9,625.0	23.33	179.52	9,601.6	173.7	307.5	-158.3	12.00	12.00	0.00
9,650.0	26.33	179.52	9,624.3	163.2	307.6	-147.8	12.00	12.00	0.00
9,675.0	29.33	179.52	9,646.4	151.5	307.7	-136.1	12.00	12.00	0.00
9,700.0	32.33	179.52	9,667.8	138.7	307.8	-123.3	12.00	12.00	0.00
9,725.0	35.33	179.52	9,688.6	124.8	307.9	-109.4	12.00	12.00	0.00
9,750.0	38.33	179.52	9,708.6	109.8	308.0	-94.4	12.00	12.00	0.00
9,775.0	41.33	179.52	9,727.8	93.8	308.2	-78.4	12.00	12.00	0.00
9,800.0	44.33	179.52	9,746.1	76.8	308.3	-61.5	12.00	12.00	0.00
9,825.0	47.33	179.52	9,763.6	58.8	308.5	-43.5	12.00	12.00	0.00
9,850.0	50.33	179.52	9,780.0	40.0	308.6	-24.7	12.00	12.00	0.00
9,875.0	53.33	179.52	9,795.5	20.4	308.8	-5.1	12.00	12.00	0.00
9,900.0	56.33	179.52	9,809.9	-0.1	309.0	15.3	12.00	12.00	0.00
9,925.0	59.33	179.52	9,823.2	-21.2	309.1	36.5	12.00	12.00	0.00
9,950.0	62.33	179.52	9,835.4	-43.0	309.3	58.3	12.00	12.00	0.00
9,975.0	65.33	179.52	9,846.4	-65.5	309.5	80.7	12.00	12.00	0.00
10,000.0	68.33	179.52	9,856.2	-88.4	309.7	103.6	12.00	12.00	0.00
10,025.0	71.33	179.52	9,864.8	-111.9	309.9	127.1	12.00	12.00	0.00
10,050.0	74.33	179.52	9,872.2	-135.8	310.1	150.9	12.00	12.00	0.00
10,075.0	77.33	179.52	9,878.3	-160.0	310.3	175.2	12.00	12.00	0.00
10,100.0	80.33	179.52	9,883.2	-184.6	310.5	199.7	12.00	12.00	0.00
10,125.0	83.33	179.52	9,886.7	-209.3	310.7	224.4	12.00	12.00	0.00
10,150.0	86.33	179.52	9,889.0	-234.2	310.9	249.3	12.00	12.00	0.00
10,175.0	89.33	179.52	9,889.9	-259.2	311.1	274.2	12.00	12.00	0.00
EOB @ 90° Inc / 179.52° Azm / 9890' TVD									
10,180.6	90.00	179.52	9,890.0	-264.8	311.2	279.8	12.00	12.00	0.00
10,200.0	90.00	179.52	9,890.0	-284.2	311.3	299.2	0.00	0.00	0.00
10,300.0	90.00	179.52	9,890.0	-384.2	312.2	399.1	0.00	0.00	0.00
10,400.0	90.00	179.52	9,890.0	-484.2	313.0	499.0	0.00	0.00	0.00
10,500.0	90.00	179.52	9,890.0	-584.2	313.8	598.9	0.00	0.00	0.00
10,600.0	90.00	179.52	9,890.0	-684.2	314.7	698.9	0.00	0.00	0.00
10,700.0	90.00	179.52	9,890.0	-784.2	315.5	798.8	0.00	0.00	0.00
10,800.0	90.00	179.52	9,890.0	-884.1	316.3	898.7	0.00	0.00	0.00
10,900.0	90.00	179.52	9,890.0	-984.1	317.2	998.6	0.00	0.00	0.00
11,000.0	90.00	179.52	9,890.0	-1,084.1	318.0	1,098.5	0.00	0.00	0.00
11,100.0	90.00	179.52	9,890.0	-1,184.1	318.9	1,198.4	0.00	0.00	0.00
11,200.0	90.00	179.52	9,890.0	-1,284.1	319.7	1,298.4	0.00	0.00	0.00
11,300.0	90.00	179.52	9,890.0	-1,384.1	320.5	1,398.3	0.00	0.00	0.00
11,400.0	90.00	179.52	9,890.0	-1,484.1	321.4	1,498.2	0.00	0.00	0.00
11,500.0	90.00	179.52	9,890.0	-1,584.1	322.2	1,598.1	0.00	0.00	0.00
11,600.0	90.00	179.52	9,890.0	-1,684.1	323.0	1,698.0	0.00	0.00	0.00
11,700.0	90.00	179.52	9,890.0	-1,784.1	323.9	1,797.9	0.00	0.00	0.00
11,800.0	90.00	179.52	9,890.0	-1,884.1	324.7	1,897.9	0.00	0.00	0.00
11,900.0	90.00	179.52	9,890.0	-1,984.1	325.5	1,997.8	0.00	0.00	0.00
12,000.0	90.00	179.52	9,890.0	-2,084.1	326.4	2,097.7	0.00	0.00	0.00
12,100.0	90.00	179.52	9,890.0	-2,184.1	327.2	2,197.6	0.00	0.00	0.00
12,200.0	90.00	179.52	9,890.0	-2,284.1	328.1	2,297.5	0.00	0.00	0.00
12,300.0	90.00	179.52	9,890.0	-2,384.1	328.9	2,397.4	0.00	0.00	0.00
12,400.0	90.00	179.52	9,890.0	-2,484.1	329.7	2,497.3	0.00	0.00	0.00
12,500.0	90.00	179.52	9,890.0	-2,584.1	330.6	2,597.3	0.00	0.00	0.00
12,600.0	90.00	179.52	9,890.0	-2,684.1	331.4	2,697.2	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Cast Away 6 B2BW State Com Unit #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Patterson #230)
Project:	Lea County, New Mexico (Nad 83)	MD Reference:	WELL @ 3685.0usft (Patterson #230)
Site:	Sec 6, T21S, R35E	North Reference:	Grid
Well:	Cast Away 6 B2BW State Com Unit #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,700.0	90.00	179.52	9,890.0	-2,784.1	332.2	2,797.1	0.00	0.00	0.00
12,800.0	90.00	179.52	9,890.0	-2,884.1	333.1	2,897.0	0.00	0.00	0.00
12,900.0	90.00	179.52	9,890.0	-2,984.1	333.9	2,996.9	0.00	0.00	0.00
13,000.0	90.00	179.52	9,890.0	-3,084.1	334.7	3,096.8	0.00	0.00	0.00
13,100.0	90.00	179.52	9,890.0	-3,184.1	335.6	3,196.8	0.00	0.00	0.00
13,200.0	90.00	179.52	9,890.0	-3,284.1	336.4	3,296.7	0.00	0.00	0.00
13,300.0	90.00	179.52	9,890.0	-3,384.1	337.3	3,396.6	0.00	0.00	0.00
13,400.0	90.00	179.52	9,890.0	-3,484.1	338.1	3,496.5	0.00	0.00	0.00
13,500.0	90.00	179.52	9,890.0	-3,584.1	338.9	3,596.4	0.00	0.00	0.00
13,600.0	90.00	179.52	9,890.0	-3,684.0	339.8	3,696.3	0.00	0.00	0.00
13,700.0	90.00	179.52	9,890.0	-3,784.0	340.6	3,796.2	0.00	0.00	0.00
13,800.0	90.00	179.52	9,890.0	-3,884.0	341.4	3,896.2	0.00	0.00	0.00
13,900.0	90.00	179.52	9,890.0	-3,984.0	342.3	3,996.1	0.00	0.00	0.00
14,000.0	90.00	179.52	9,890.0	-4,084.0	343.1	4,096.0	0.00	0.00	0.00
14,100.0	90.00	179.52	9,890.0	-4,184.0	343.9	4,195.9	0.00	0.00	0.00
14,200.0	90.00	179.52	9,890.0	-4,284.0	344.8	4,295.8	0.00	0.00	0.00
14,300.0	90.00	179.52	9,890.0	-4,384.0	345.6	4,395.7	0.00	0.00	0.00
14,400.0	90.00	179.52	9,890.0	-4,484.0	346.5	4,495.7	0.00	0.00	0.00
14,500.0	90.00	179.52	9,890.0	-4,584.0	347.3	4,595.6	0.00	0.00	0.00
14,600.0	90.00	179.52	9,890.0	-4,684.0	348.1	4,695.5	0.00	0.00	0.00
14,700.0	90.00	179.52	9,890.0	-4,784.0	349.0	4,795.4	0.00	0.00	0.00
14,800.0	90.00	179.52	9,890.0	-4,884.0	349.8	4,895.3	0.00	0.00	0.00
14,900.0	90.00	179.52	9,890.0	-4,984.0	350.6	4,995.2	0.00	0.00	0.00
15,000.0	90.00	179.52	9,890.0	-5,084.0	351.5	5,095.2	0.00	0.00	0.00
15,100.0	90.00	179.52	9,890.0	-5,184.0	352.3	5,195.1	0.00	0.00	0.00
15,200.0	90.00	179.52	9,890.0	-5,284.0	353.1	5,295.0	0.00	0.00	0.00
15,300.0	90.00	179.52	9,890.0	-5,384.0	354.0	5,394.9	0.00	0.00	0.00
15,400.0	90.00	179.52	9,890.0	-5,484.0	354.8	5,494.8	0.00	0.00	0.00
15,500.0	90.00	179.52	9,890.0	-5,584.0	355.7	5,594.7	0.00	0.00	0.00
15,600.0	90.00	179.52	9,890.0	-5,684.0	356.5	5,694.6	0.00	0.00	0.00
15,700.0	90.00	179.52	9,890.0	-5,784.0	357.3	5,794.6	0.00	0.00	0.00
15,800.0	90.00	179.52	9,890.0	-5,884.0	358.2	5,894.5	0.00	0.00	0.00
15,900.0	90.00	179.52	9,890.0	-5,984.0	359.0	5,994.4	0.00	0.00	0.00
16,000.0	90.00	179.52	9,890.0	-6,084.0	359.8	6,094.3	0.00	0.00	0.00
16,100.0	90.00	179.52	9,890.0	-6,184.0	360.7	6,194.2	0.00	0.00	0.00
16,200.0	90.00	179.52	9,890.0	-6,284.0	361.5	6,294.1	0.00	0.00	0.00
16,300.0	90.00	179.52	9,890.0	-6,384.0	362.3	6,394.1	0.00	0.00	0.00
16,400.0	90.00	179.52	9,890.0	-6,484.0	363.2	6,494.0	0.00	0.00	0.00
16,500.0	90.00	179.52	9,890.0	-6,583.9	364.0	6,593.9	0.00	0.00	0.00
16,600.0	90.00	179.52	9,890.0	-6,683.9	364.9	6,693.8	0.00	0.00	0.00
16,700.0	90.00	179.52	9,890.0	-6,783.9	365.7	6,793.7	0.00	0.00	0.00
16,800.0	90.00	179.52	9,890.0	-6,883.9	366.5	6,893.6	0.00	0.00	0.00
16,900.0	90.00	179.52	9,890.0	-6,983.9	367.4	6,993.6	0.00	0.00	0.00
17,000.0	90.00	179.52	9,890.0	-7,083.9	368.2	7,093.5	0.00	0.00	0.00
17,100.0	90.00	179.52	9,890.0	-7,183.9	369.0	7,193.4	0.00	0.00	0.00
17,200.0	90.00	179.52	9,890.0	-7,283.9	369.9	7,293.3	0.00	0.00	0.00
17,300.0	90.00	179.52	9,890.0	-7,383.9	370.7	7,393.2	0.00	0.00	0.00
17,400.0	90.00	179.52	9,890.0	-7,483.9	371.5	7,493.1	0.00	0.00	0.00
TD @ 17436' MD / 9890' TVD									
17,435.5	90.00	179.52	9,890.0	-7,519.4	371.8	7,528.6	0.00	0.00	0.00



Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Cast Away 6 B2BW State Com Unit #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Patterson #230)
Project:	Lea County, New Mexico (Nad 83)	MD Reference:	WELL @ 3685.0usft (Patterson #230)
Site:	Sec 6, T21S, R35E	North Reference:	Grid
Well:	Cast Away 6 B2BW State Com Unit #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
VP Cast Away 6 B2Bv	0.00	0.00	9,412.5	212.7	307.2	555,000.80	827,320.87	32° 31' 20.402 N	103° 24' 19.762 W
- plan hits target center									
- Point									
PBHL Cast Away 6 B2	0.00	0.00	9,890.0	-7,519.4	371.8	547,268.66	827,385.54	32° 30' 3.893 N	103° 24' 19.793 W
- plan hits target center									
- Point									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
5,300.0	5,300.0	9 5/8"	9-5/8	12-1/4

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
5,375.0	5,375.0	0.0	0.0	Build 2°/100'
5,659.3	5,658.8	8.0	11.6	EOB @ 5.69° Inc / 55.3° Azm
9,146.3	9,128.7	204.7	295.6	Drop 2°/100'
9,430.6	9,412.5	212.7	307.2	EOD @ Vert / Build 12°/100'
10,180.6	9,890.0	-264.8	311.2	EOB @ 90° Inc / 179.52° Azm / 9890' TVD
17,435.5	9,890.0	-7,519.4	371.8	TD @ 17436' MD / 9890' TVD

16491

Mewbourne Oil Company

Lea County, New Mexico NAD 83

La Trucha 6 B1CV St Com #1H

SL: 220' FNL & 2540' FWL

SEC. 6, T21S, R35E

BHL: 100' FSL & 2030' FWL

Plan: Design #1

Standard Planning Report

07 August, 2018

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site La Trucha 6 B1CV St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3685.0usft (Original Well Elev)
Site:	La Trucha 6 B1CV St Com #1H	North Reference:	Grid
Well:	SL: 220' FNL & 2540' FWL	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2030' FWL		
Design:	Design #1		

Project	Lea County, New Mexico 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	La Trucha 6 B1CV St Com #1H			
Site Position:		Northing:	554,787.70 usft	Latitude: 32.5217566
From:	Map	Easting:	826,971.60 usft	Longitude: -103.4066284
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.50 °

Well	SL: 220' FNL & 2540' FWL			
Well Position	+N/-S	0.0 usft	Northing:	554,787.70 usft
	+E/-W	0.0 usft	Easting:	826,971.60 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	3,685.0 usft
			Ground Level:	3,658.0 usft

Wellbore	BHL: 100' FSL & 2030' FWL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/7/2018	6.64	60.30	48,094

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	183.43

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,375.0	0.00	0.00	5,375.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,207.1	12.48	291.87	6,200.5	33.6	-83.8	1.50	1.50	0.00	291.87	
7,922.6	12.48	291.87	7,875.5	171.8	-427.8	0.00	0.00	0.00	0.00	
8,754.7	0.00	0.00	8,701.0	205.4	-511.6	1.50	-1.50	0.00	180.00	KOP @ 8701
9,505.5	90.00	179.55	9,179.0	-272.6	-507.8	11.99	11.99	0.00	179.55	
16,758.2	90.00	179.55	9,179.0	-7,525.0	-450.5	0.00	0.00	0.00	0.00	BHL: 100' FSL & 2030'

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Lea County, New Mexico NAD 83
Site: La Trucha 6 B1CV St Com #1H
Well: SL: 220' FNL & 2540' FWL
Wellbore: BHL: 100' FSL & 2030' FWL
Design: Design #1

Local Co-ordinate Reference: Site La Trucha 6 B1CV St Com #1H
TVD Reference: WELL @ 3685.0usft (Original Well Elev)
MD Reference: WELL @ 3685.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 220' FNL & 2540' FWL									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site La Trucha 6 B1CV St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3685.0usft (Original Well Elev)
Site:	La Trucha 6 B1CV St Com #1H	North Reference:	Grid
Well:	SL: 220' FNL & 2540' FWL	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2030' FWL		
Design:	Design #1		

Planned 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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,375.0	0.00	0.00	5,375.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.38	291.87	5,400.0	0.0	-0.1	0.0	1.50	1.50	0.00
5,500.0	1.88	291.87	5,500.0	0.8	-1.9	-0.6	1.50	1.50	0.00
5,600.0	3.38	291.87	5,599.9	2.5	-6.1	-2.1	1.50	1.50	0.00
5,700.0	4.88	291.87	5,699.6	5.1	-12.8	-4.4	1.50	1.50	0.00
5,800.0	6.38	291.87	5,799.1	8.8	-21.9	-7.5	1.50	1.50	0.00
5,900.0	7.88	291.87	5,898.3	13.4	-33.4	-11.4	1.50	1.50	0.00
6,000.0	9.38	291.87	5,997.2	19.0	-47.3	-16.1	1.50	1.50	0.00
6,100.0	10.88	291.87	6,095.7	25.6	-63.7	-21.7	1.50	1.50	0.00
6,200.0	12.38	291.87	6,193.6	33.1	-82.4	-28.1	1.50	1.50	0.00
6,207.1	12.48	291.87	6,200.5	33.6	-83.8	-28.6	1.50	1.50	0.00
6,300.0	12.48	291.87	6,291.2	41.1	-102.4	-34.9	0.00	0.00	0.00
6,400.0	12.48	291.87	6,388.9	49.2	-122.5	-41.8	0.00	0.00	0.00
6,500.0	12.48	291.87	6,486.5	57.2	-142.5	-48.6	0.00	0.00	0.00
6,600.0	12.48	291.87	6,584.1	65.3	-162.6	-55.4	0.00	0.00	0.00
6,700.0	12.48	291.87	6,681.8	73.3	-182.6	-62.3	0.00	0.00	0.00
6,800.0	12.48	291.87	6,779.4	81.4	-202.7	-69.1	0.00	0.00	0.00
6,900.0	12.48	291.87	6,877.1	89.4	-222.7	-76.0	0.00	0.00	0.00
7,000.0	12.48	291.87	6,974.7	97.5	-242.8	-82.8	0.00	0.00	0.00
7,100.0	12.48	291.87	7,072.3	105.5	-262.9	-89.6	0.00	0.00	0.00
7,200.0	12.48	291.87	7,170.0	113.6	-282.9	-96.5	0.00	0.00	0.00
7,300.0	12.48	291.87	7,267.6	121.6	-303.0	-103.3	0.00	0.00	0.00
7,400.0	12.48	291.87	7,365.2	129.7	-323.0	-110.2	0.00	0.00	0.00
7,500.0	12.48	291.87	7,462.9	137.7	-343.1	-117.0	0.00	0.00	0.00
7,600.0	12.48	291.87	7,560.5	145.8	-363.1	-123.8	0.00	0.00	0.00
7,700.0	12.48	291.87	7,658.2	153.8	-383.2	-130.7	0.00	0.00	0.00
7,800.0	12.48	291.87	7,755.8	161.9	-403.2	-137.5	0.00	0.00	0.00
7,900.0	12.48	291.87	7,853.4	169.9	-423.3	-144.3	0.00	0.00	0.00
7,922.6	12.48	291.87	7,875.5	171.8	-427.8	-145.9	0.00	0.00	0.00
8,000.0	11.32	291.87	7,951.2	177.7	-442.6	-150.9	1.50	-1.50	0.00
8,100.0	9.82	291.87	8,049.5	184.5	-459.7	-156.7	1.50	-1.50	0.00
8,200.0	8.32	291.87	8,148.3	190.4	-474.3	-161.7	1.50	-1.50	0.00
8,300.0	6.82	291.87	8,247.4	195.3	-486.5	-165.9	1.50	-1.50	0.00
8,400.0	5.32	291.87	8,346.8	199.3	-496.3	-169.3	1.50	-1.50	0.00
8,500.0	3.82	291.87	8,446.5	202.2	-503.7	-171.8	1.50	-1.50	0.00
8,600.0	2.32	291.87	8,546.4	204.2	-508.7	-173.5	1.50	-1.50	0.00
8,700.0	0.82	291.87	8,646.3	205.3	-511.2	-174.3	1.50	-1.50	0.00
8,754.7	0.00	0.00	8,701.0	205.4	-511.6	-174.5	1.50	-1.50	0.00
KOP @ 8701									
8,800.0	5.43	179.55	8,746.3	203.3	-511.6	-172.3	11.99	11.99	0.00
8,900.0	17.42	179.55	8,844.1	183.5	-511.4	-152.6	11.99	11.99	0.00
9,000.0	29.41	179.55	8,935.7	143.8	-511.1	-113.0	11.99	11.99	0.00
9,044.8	34.78	179.55	8,973.7	120.0	-510.9	-89.3	11.99	11.99	0.00
FTP: 100' FNL & 2030' FWL									
9,100.0	41.39	179.55	9,017.1	86.0	-510.7	-55.3	11.99	11.99	0.00
9,200.0	53.38	179.55	9,084.6	12.5	-510.1	18.0	11.99	11.99	0.00
9,300.0	65.37	179.55	9,135.5	-73.4	-509.4	103.7	11.99	11.99	0.00
9,400.0	77.35	179.55	9,167.4	-167.9	-508.6	198.0	11.99	11.99	0.00
9,500.0	89.34	179.55	9,179.0	-267.1	-507.9	296.9	11.99	11.99	0.00
9,505.5	90.00	179.55	9,179.0	-272.6	-507.8	302.4	11.99	11.99	0.00
LP @ 9179'									
9,600.0	90.00	179.55	9,179.0	-367.1	-507.1	396.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site La Trucha 6 B1CV St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3685.0usft (Original Well Elev)
Site:	La Trucha 6 B1CV St Com #1H	North Reference:	Grid
Well:	SL: 220' FNL & 2540' FWL	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2030' FWL		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,700.0	90.00	179.55	9,179.0	-467.1	-506.3	496.5	0.00	0.00	0.00	
9,800.0	90.00	179.55	9,179.0	-567.1	-505.5	596.3	0.00	0.00	0.00	
9,900.0	90.00	179.55	9,179.0	-667.1	-504.7	696.0	0.00	0.00	0.00	
10,000.0	90.00	179.55	9,179.0	-767.1	-503.9	795.8	0.00	0.00	0.00	
10,100.0	90.00	179.55	9,179.0	-867.1	-503.1	895.6	0.00	0.00	0.00	
10,200.0	90.00	179.55	9,179.0	-967.1	-502.3	995.3	0.00	0.00	0.00	
10,300.0	90.00	179.55	9,179.0	-1,067.0	-501.5	1,095.1	0.00	0.00	0.00	
10,400.0	90.00	179.55	9,179.0	-1,167.0	-500.8	1,194.9	0.00	0.00	0.00	
10,500.0	90.00	179.55	9,179.0	-1,267.0	-500.0	1,294.7	0.00	0.00	0.00	
10,600.0	90.00	179.55	9,179.0	-1,367.0	-499.2	1,394.4	0.00	0.00	0.00	
10,700.0	90.00	179.55	9,179.0	-1,467.0	-498.4	1,494.2	0.00	0.00	0.00	
10,800.0	90.00	179.55	9,179.0	-1,567.0	-497.6	1,594.0	0.00	0.00	0.00	
10,900.0	90.00	179.55	9,179.0	-1,667.0	-496.8	1,693.7	0.00	0.00	0.00	
11,000.0	90.00	179.55	9,179.0	-1,767.0	-496.0	1,793.5	0.00	0.00	0.00	
11,100.0	90.00	179.55	9,179.0	-1,867.0	-495.2	1,893.3	0.00	0.00	0.00	
11,200.0	90.00	179.55	9,179.0	-1,967.0	-494.4	1,993.1	0.00	0.00	0.00	
11,300.0	90.00	179.55	9,179.0	-2,067.0	-493.6	2,092.8	0.00	0.00	0.00	
11,400.0	90.00	179.55	9,179.0	-2,167.0	-492.8	2,192.6	0.00	0.00	0.00	
11,500.0	90.00	179.55	9,179.0	-2,267.0	-492.1	2,292.4	0.00	0.00	0.00	
11,600.0	90.00	179.55	9,179.0	-2,367.0	-491.3	2,392.1	0.00	0.00	0.00	
11,700.0	90.00	179.55	9,179.0	-2,467.0	-490.5	2,491.9	0.00	0.00	0.00	
11,800.0	90.00	179.55	9,179.0	-2,567.0	-489.7	2,591.7	0.00	0.00	0.00	
11,900.0	90.00	179.55	9,179.0	-2,667.0	-488.9	2,691.4	0.00	0.00	0.00	
12,000.0	90.00	179.55	9,179.0	-2,767.0	-488.1	2,791.2	0.00	0.00	0.00	
12,100.0	90.00	179.55	9,179.0	-2,867.0	-487.3	2,891.0	0.00	0.00	0.00	
12,200.0	90.00	179.55	9,179.0	-2,967.0	-486.5	2,990.8	0.00	0.00	0.00	
12,300.0	90.00	179.55	9,179.0	-3,067.0	-485.7	3,090.5	0.00	0.00	0.00	
12,400.0	90.00	179.55	9,179.0	-3,167.0	-484.9	3,190.3	0.00	0.00	0.00	
12,500.0	90.00	179.55	9,179.0	-3,267.0	-484.2	3,290.1	0.00	0.00	0.00	
12,600.0	90.00	179.55	9,179.0	-3,367.0	-483.4	3,389.8	0.00	0.00	0.00	
12,700.0	90.00	179.55	9,179.0	-3,467.0	-482.6	3,489.6	0.00	0.00	0.00	
12,800.0	90.00	179.55	9,179.0	-3,567.0	-481.8	3,589.4	0.00	0.00	0.00	
12,900.0	90.00	179.55	9,179.0	-3,667.0	-481.0	3,689.2	0.00	0.00	0.00	
13,000.0	90.00	179.55	9,179.0	-3,767.0	-480.2	3,788.9	0.00	0.00	0.00	
13,100.0	90.00	179.55	9,179.0	-3,867.0	-479.4	3,888.7	0.00	0.00	0.00	
13,200.0	90.00	179.55	9,179.0	-3,967.0	-478.6	3,988.5	0.00	0.00	0.00	
13,300.0	90.00	179.55	9,179.0	-4,067.0	-477.8	4,088.2	0.00	0.00	0.00	
13,400.0	90.00	179.55	9,179.0	-4,167.0	-477.0	4,188.0	0.00	0.00	0.00	
13,500.0	90.00	179.55	9,179.0	-4,266.9	-476.3	4,287.8	0.00	0.00	0.00	
13,600.0	90.00	179.55	9,179.0	-4,366.9	-475.5	4,387.6	0.00	0.00	0.00	
13,700.0	90.00	179.55	9,179.0	-4,466.9	-474.7	4,487.3	0.00	0.00	0.00	
13,800.0	90.00	179.55	9,179.0	-4,566.9	-473.9	4,587.1	0.00	0.00	0.00	
13,900.0	90.00	179.55	9,179.0	-4,666.9	-473.1	4,686.9	0.00	0.00	0.00	
14,000.0	90.00	179.55	9,179.0	-4,766.9	-472.3	4,786.6	0.00	0.00	0.00	
14,100.0	90.00	179.55	9,179.0	-4,866.9	-471.5	4,886.4	0.00	0.00	0.00	
14,200.0	90.00	179.55	9,179.0	-4,966.9	-470.7	4,986.2	0.00	0.00	0.00	
14,300.0	90.00	179.55	9,179.0	-5,066.9	-469.9	5,085.9	0.00	0.00	0.00	
14,400.0	90.00	179.55	9,179.0	-5,166.9	-469.1	5,185.7	0.00	0.00	0.00	
14,500.0	90.00	179.55	9,179.0	-5,266.9	-468.3	5,285.5	0.00	0.00	0.00	
14,600.0	90.00	179.55	9,179.0	-5,366.9	-467.6	5,385.3	0.00	0.00	0.00	
14,700.0	90.00	179.55	9,179.0	-5,466.9	-466.8	5,485.0	0.00	0.00	0.00	
14,800.0	90.00	179.55	9,179.0	-5,566.9	-466.0	5,584.8	0.00	0.00	0.00	
14,900.0	90.00	179.55	9,179.0	-5,666.9	-465.2	5,684.6	0.00	0.00	0.00	
15,000.0	90.00	179.55	9,179.0	-5,766.9	-464.4	5,784.3	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site La Trucha 6 B1CV St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3685.0usft (Original Well Elev)
Project:	Lea County, New Mexico NAD 83	MD Reference:	WELL @ 3685.0usft (Original Well Elev)
Site:	La Trucha 6 B1CV St Com #1H	North Reference:	Grid
Well:	SL: 220' FNL & 2540' FWL	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 100' FSL & 2030' FWL		
Design:	Design #1		

Planned 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)
15,100.0	90.00	179.55	9,179.0	-5,866.9	-463.6	5,884.1	0.00	0.00	0.00
15,200.0	90.00	179.55	9,179.0	-5,966.9	-462.8	5,983.9	0.00	0.00	0.00
15,300.0	90.00	179.55	9,179.0	-6,066.9	-462.0	6,083.7	0.00	0.00	0.00
15,400.0	90.00	179.55	9,179.0	-6,166.9	-461.2	6,183.4	0.00	0.00	0.00
15,500.0	90.00	179.55	9,179.0	-6,266.9	-460.4	6,283.2	0.00	0.00	0.00
15,600.0	90.00	179.55	9,179.0	-6,366.9	-459.7	6,383.0	0.00	0.00	0.00
15,700.0	90.00	179.55	9,179.0	-6,466.9	-458.9	6,482.7	0.00	0.00	0.00
15,800.0	90.00	179.55	9,179.0	-6,566.9	-458.1	6,582.5	0.00	0.00	0.00
15,900.0	90.00	179.55	9,179.0	-6,666.9	-457.3	6,682.3	0.00	0.00	0.00
16,000.0	90.00	179.55	9,179.0	-6,766.9	-456.5	6,782.1	0.00	0.00	0.00
16,100.0	90.00	179.55	9,179.0	-6,866.9	-455.7	6,881.8	0.00	0.00	0.00
16,200.0	90.00	179.55	9,179.0	-6,966.9	-454.9	6,981.6	0.00	0.00	0.00
16,300.0	90.00	179.55	9,179.0	-7,066.9	-454.1	7,081.4	0.00	0.00	0.00
16,400.0	90.00	179.55	9,179.0	-7,166.9	-453.3	7,181.1	0.00	0.00	0.00
16,500.0	90.00	179.55	9,179.0	-7,266.9	-452.5	7,280.9	0.00	0.00	0.00
16,600.0	90.00	179.55	9,179.0	-7,366.9	-451.7	7,380.7	0.00	0.00	0.00
16,700.0	90.00	179.55	9,179.0	-7,466.8	-451.0	7,480.5	0.00	0.00	0.00
16,758.2	90.00	179.55	9,179.0	-7,525.0	-450.5	7,538.5	0.00	0.00	0.00
BHL: 100' FSL & 2030' FWL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 220' FNL & 2540' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	554,787.70	826,971.60	32.5217566	-103.4066284
KOP @ 8701 - plan hits target center - Point	0.00	0.00	8,701.0	205.4	-511.6	554,993.10	826,460.00	32.5223334	-103.4082823
FTP: 100' FNL & 2030' F - plan hits target center - Point	0.00	0.00	8,973.7	120.0	-510.9	554,907.70	826,460.67	32.5220987	-103.4082825
LP @ 9179' - plan hits target center - Point	0.00	0.00	9,179.0	-272.6	-507.8	554,515.12	826,463.78	32.5210196	-103.4082835
BHL: 100' FSL & 2030' F - plan hits target center - Point	0.00	0.00	9,179.0	-7,525.0	-450.5	547,262.70	826,521.10	32.5010855	-103.4083017