



APR 18 2016
RECEIVED

Legacy Reserves

Lea County, NM (NAD-27 2015)

Lea Unit #62H

Lea Unit #62H

Lateral #1

Plan: Design #1

Standard Planning Report

01 December, 2015



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Lea Unit #62H
Company:	Legacy Reserves	TVD Reference:	KB @ 3706.00usft (McVay 4)
Project:	Lea County, NM (NAD-27 2015)	MD Reference:	KB @ 3706.00usft (McVay 4)
Site:	Lea Unit #62H	North Reference:	Grid
Well:	Lea Unit #62H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral #1		
Design:	Design #1		

Project	Lea County, NM (NAD-27 2015)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Lea Unit #62H				
Site Position:		Northing:	567,540.50 usft	Latitude:	32° 33' 26.964 N
From:	Map	Easting:	757,874.60 usft	Longitude:	103° 29' 46.949 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.45 °

Well	Lea Unit #62H					
Well Position	+N/-S	0.00 usft	Northing:	567,540.50 usft	Latitude:	32° 33' 26.964 N
	+E/-W	0.00 usft	Easting:	757,874.60 usft	Longitude:	103° 29' 46.949 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,688.00 usft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/1/2015	7.11	60.40	48,302

Design	Design #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	355.40	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,327.04	0.00	0.00	10,327.04	0.00	0.00	0.00	0.00	0.00	0.00	
11,227.04	90.00	337.84	10,900.00	530.64	-216.12	10.00	10.00	0.00	337.84	
11,885.59	90.00	357.60	10,900.00	1,170.93	-355.51	3.00	0.00	3.00	90.00	
18,674.23	90.00	357.60	10,900.00	7,953.60	-640.20	0.00	0.00	0.00	0.00	BHL (LU #62H/L1)

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Company: Legacy Reserves
Project: Lea County, NM (NAD-27 2015)
Site: Lea Unit #62H
Well: Lea Unit #62H
Wellbore: Lateral #1
Design: Design #1

Local Co-ordinate Reference: Site Lea Unit #62H
TVD Reference: KB @ 3706.00usft (McVay 4)
MD Reference: KB @ 3706.00usft (McVay 4)
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

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KB @ 3706.00usft (McVay 4)
KB @ 3706.00usft (McVay 4)
Grid
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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,327.04	0.00	0.00	10,327.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build 10.00									
10,350.00	2.30	337.84	10,349.99	0.43	-0.17	0.44	10.00	10.00	0.00

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MD Reference: KB @ 3706.00usft (McVay 4)
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)
10,400.00	7.30	337.84	10,399.80	4.30	-1.75	4.42	10.00	10.00	0.00
10,450.00	12.30	337.84	10,449.06	12.17	-4.96	12.53	10.00	10.00	0.00
10,500.00	17.30	337.84	10,497.39	23.99	-9.77	24.70	10.00	10.00	0.00
10,550.00	22.30	337.84	10,544.42	39.67	-16.16	40.84	10.00	10.00	0.00
10,600.00	27.30	337.84	10,589.79	59.09	-24.06	60.83	10.00	10.00	0.00
10,650.00	32.30	337.84	10,633.17	82.09	-33.43	84.51	10.00	10.00	0.00
10,700.00	37.30	337.84	10,674.21	108.51	-44.19	111.70	10.00	10.00	0.00
10,750.00	42.30	337.84	10,712.62	138.14	-56.26	142.20	10.00	10.00	0.00
10,800.00	47.30	337.84	10,748.09	170.75	-69.54	175.78	10.00	10.00	0.00
10,850.00	52.30	337.84	10,780.35	206.11	-83.94	212.18	10.00	10.00	0.00
10,900.00	57.30	337.84	10,809.17	243.93	-99.35	251.12	10.00	10.00	0.00
10,950.00	62.30	337.84	10,834.31	283.94	-115.64	292.30	10.00	10.00	0.00
11,000.00	67.30	337.84	10,855.60	325.83	-132.70	335.42	10.00	10.00	0.00
11,050.00	72.30	337.84	10,872.86	369.27	-150.40	380.15	10.00	10.00	0.00
11,100.00	77.30	337.84	10,885.97	413.94	-168.59	426.13	10.00	10.00	0.00
11,150.00	82.30	337.84	10,894.83	459.50	-187.14	473.03	10.00	10.00	0.00
11,200.00	87.30	337.84	10,899.36	505.60	-205.92	520.49	10.00	10.00	0.00
11,227.04	90.00	337.84	10,900.00	530.64	-216.12	546.26	10.00	10.00	0.00
EOC/TURN - Start DLS 3.00 TFO 90.00									
11,300.00	90.00	340.03	10,900.00	598.72	-242.34	616.23	3.00	0.00	3.00
11,400.00	90.00	343.03	10,900.00	693.55	-274.02	713.30	3.00	0.00	3.00
11,500.00	90.00	346.03	10,900.00	789.92	-300.69	811.50	3.00	0.00	3.00
11,600.00	90.00	349.03	10,900.00	887.55	-322.28	910.54	3.00	0.00	3.00
11,700.00	90.00	352.03	10,900.00	986.17	-338.74	1,010.17	3.00	0.00	3.00
11,800.00	90.00	355.03	10,900.00	1,085.53	-350.01	1,110.11	3.00	0.00	3.00
11,885.59	90.00	357.60	10,900.00	1,170.93	-355.51	1,195.68	3.00	0.00	3.00
END TURN - Start 6788.64 hold at 11885.59 MD									
11,900.00	90.00	357.60	10,900.00	1,185.33	-356.11	1,210.08	0.00	0.00	0.00
12,000.00	90.00	357.60	10,900.00	1,285.24	-360.31	1,310.01	0.00	0.00	0.00
12,100.00	90.00	357.60	10,900.00	1,385.15	-364.50	1,409.93	0.00	0.00	0.00
12,200.00	90.00	357.60	10,900.00	1,485.06	-368.69	1,509.86	0.00	0.00	0.00
12,300.00	90.00	357.60	10,900.00	1,584.98	-372.89	1,609.78	0.00	0.00	0.00
12,400.00	90.00	357.60	10,900.00	1,684.89	-377.08	1,709.71	0.00	0.00	0.00
12,500.00	90.00	357.60	10,900.00	1,784.80	-381.28	1,809.64	0.00	0.00	0.00
12,600.00	90.00	357.60	10,900.00	1,884.71	-385.47	1,909.56	0.00	0.00	0.00
12,700.00	90.00	357.60	10,900.00	1,984.62	-389.66	2,009.49	0.00	0.00	0.00
12,800.00	90.00	357.60	10,900.00	2,084.54	-393.86	2,109.42	0.00	0.00	0.00
12,900.00	90.00	357.60	10,900.00	2,184.45	-398.05	2,209.34	0.00	0.00	0.00
13,000.00	90.00	357.60	10,900.00	2,284.36	-402.24	2,309.27	0.00	0.00	0.00
13,100.00	90.00	357.60	10,900.00	2,384.27	-406.44	2,409.20	0.00	0.00	0.00
13,200.00	90.00	357.60	10,900.00	2,484.18	-410.63	2,509.12	0.00	0.00	0.00
13,300.00	90.00	357.60	10,900.00	2,584.10	-414.82	2,609.05	0.00	0.00	0.00
13,400.00	90.00	357.60	10,900.00	2,684.01	-419.02	2,708.97	0.00	0.00	0.00
13,500.00	90.00	357.60	10,900.00	2,783.92	-423.21	2,808.90	0.00	0.00	0.00
13,600.00	90.00	357.60	10,900.00	2,883.83	-427.41	2,908.83	0.00	0.00	0.00
13,700.00	90.00	357.60	10,900.00	2,983.74	-431.60	3,008.75	0.00	0.00	0.00
13,800.00	90.00	357.60	10,900.00	3,083.66	-435.79	3,108.68	0.00	0.00	0.00
13,900.00	90.00	357.60	10,900.00	3,183.57	-439.99	3,208.61	0.00	0.00	0.00
14,000.00	90.00	357.60	10,900.00	3,283.48	-444.18	3,308.53	0.00	0.00	0.00
14,100.00	90.00	357.60	10,900.00	3,383.39	-448.37	3,408.46	0.00	0.00	0.00
14,200.00	90.00	357.60	10,900.00	3,483.30	-452.57	3,508.39	0.00	0.00	0.00
14,300.00	90.00	357.60	10,900.00	3,583.22	-456.76	3,608.31	0.00	0.00	0.00
14,400.00	90.00	357.60	10,900.00	3,683.13	-460.95	3,708.24	0.00	0.00	0.00
14,500.00	90.00	357.60	10,900.00	3,783.04	-465.15	3,808.16	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM (NAD-27 2015)
Site: Lea Unit #62H
Well: Lea Unit #62H
Wellbore: Lateral #1
Design: Design #1

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

Site Lea Unit #62H
KB @ 3706.00usft (McVay 4)
KB @ 3706.00usft (McVay 4)
Grid
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)
14,600.00	90.00	357.60	10,900.00	3,882.95	-469.34	3,908.09	0.00	0.00	0.00
14,700.00	90.00	357.60	10,900.00	3,982.86	-473.54	4,008.02	0.00	0.00	0.00
14,800.00	90.00	357.60	10,900.00	4,082.78	-477.73	4,107.94	0.00	0.00	0.00
14,900.00	90.00	357.60	10,900.00	4,182.69	-481.92	4,207.87	0.00	0.00	0.00
15,000.00	90.00	357.60	10,900.00	4,282.60	-486.12	4,307.80	0.00	0.00	0.00
15,100.00	90.00	357.60	10,900.00	4,382.51	-490.31	4,407.72	0.00	0.00	0.00
15,200.00	90.00	357.60	10,900.00	4,482.43	-494.50	4,507.65	0.00	0.00	0.00
15,300.00	90.00	357.60	10,900.00	4,582.34	-498.70	4,607.58	0.00	0.00	0.00
15,400.00	90.00	357.60	10,900.00	4,682.25	-502.89	4,707.50	0.00	0.00	0.00
15,500.00	90.00	357.60	10,900.00	4,782.16	-507.08	4,807.43	0.00	0.00	0.00
15,600.00	90.00	357.60	10,900.00	4,882.07	-511.28	4,907.36	0.00	0.00	0.00
15,700.00	90.00	357.60	10,900.00	4,981.99	-515.47	5,007.28	0.00	0.00	0.00
15,800.00	90.00	357.60	10,900.00	5,081.90	-519.67	5,107.21	0.00	0.00	0.00
15,900.00	90.00	357.60	10,900.00	5,181.81	-523.86	5,207.13	0.00	0.00	0.00
16,000.00	90.00	357.60	10,900.00	5,281.72	-528.05	5,307.06	0.00	0.00	0.00
16,100.00	90.00	357.60	10,900.00	5,381.63	-532.25	5,406.99	0.00	0.00	0.00
16,200.00	90.00	357.60	10,900.00	5,481.55	-536.44	5,506.91	0.00	0.00	0.00
16,300.00	90.00	357.60	10,900.00	5,581.46	-540.63	5,606.84	0.00	0.00	0.00
16,400.00	90.00	357.60	10,900.00	5,681.37	-544.83	5,706.77	0.00	0.00	0.00
16,500.00	90.00	357.60	10,900.00	5,781.28	-549.02	5,806.69	0.00	0.00	0.00
16,600.00	90.00	357.60	10,900.00	5,881.19	-553.21	5,906.62	0.00	0.00	0.00
16,700.00	90.00	357.60	10,900.00	5,981.11	-557.41	6,006.55	0.00	0.00	0.00
16,800.00	90.00	357.60	10,900.00	6,081.02	-561.60	6,106.47	0.00	0.00	0.00
16,900.00	90.00	357.60	10,900.00	6,180.93	-565.80	6,206.40	0.00	0.00	0.00
17,000.00	90.00	357.60	10,900.00	6,280.84	-569.99	6,306.32	0.00	0.00	0.00
17,100.00	90.00	357.60	10,900.00	6,380.75	-574.18	6,406.25	0.00	0.00	0.00
17,200.00	90.00	357.60	10,900.00	6,480.67	-578.38	6,506.18	0.00	0.00	0.00
17,300.00	90.00	357.60	10,900.00	6,580.58	-582.57	6,606.10	0.00	0.00	0.00
17,400.00	90.00	357.60	10,900.00	6,680.49	-586.76	6,706.03	0.00	0.00	0.00
17,500.00	90.00	357.60	10,900.00	6,780.40	-590.96	6,805.96	0.00	0.00	0.00
17,600.00	90.00	357.60	10,900.00	6,880.31	-595.15	6,905.88	0.00	0.00	0.00
17,700.00	90.00	357.60	10,900.00	6,980.23	-599.34	7,005.81	0.00	0.00	0.00
17,800.00	90.00	357.60	10,900.00	7,080.14	-603.54	7,105.74	0.00	0.00	0.00
17,900.00	90.00	357.60	10,900.00	7,180.05	-607.73	7,205.66	0.00	0.00	0.00
18,000.00	90.00	357.60	10,900.00	7,279.96	-611.93	7,305.59	0.00	0.00	0.00
18,100.00	90.00	357.60	10,900.00	7,379.87	-616.12	7,405.52	0.00	0.00	0.00
18,200.00	90.00	357.60	10,900.00	7,479.79	-620.31	7,505.44	0.00	0.00	0.00
18,300.00	90.00	357.60	10,900.00	7,579.70	-624.51	7,605.37	0.00	0.00	0.00
18,400.00	90.00	357.60	10,900.00	7,679.61	-628.70	7,705.29	0.00	0.00	0.00
18,500.00	90.00	357.60	10,900.00	7,779.52	-632.89	7,805.22	0.00	0.00	0.00
18,600.00	90.00	357.60	10,900.00	7,879.43	-637.09	7,905.15	0.00	0.00	0.00
18,674.23	90.00	357.60	10,900.00	7,953.60	-640.20	7,979.32	0.00	0.00	0.00
TD at 18674.23									

Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM (NAD-27 2015)
Site: Lea Unit #62H
Well: Lea Unit #62H
Wellbore: Lateral #1
Design: Design #1

Local Co-ordinate Reference: Site Lea Unit #62H
TVD Reference: KB @ 3706.00usft (McVay 4)
MD Reference: KB @ 3706.00usft (McVay 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
EOC (LU #62H/L1 Desig - plan hits target center - Point	0.00	0.00	10,900.00	530.60	-216.10	568,071.10	757,658.50	32° 33' 32.231 N	103° 29' 49.425 W
BHL (LU #62H/L1) - plan hits target center - Rectangle (sides W80.00 H6,783.64 D30.00)	0.00	357.60	10,900.00	7,953.60	-640.20	575,494.10	757,234.40	32° 34' 45.713 N	103° 29' 53.699 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,327.04	10,327.04	0.00	0.00	KOP - Start Build 10.00
11,227.04	10,900.00	530.64	-216.12	EOC/TURN - Start DLS 3.00 TFO 90.00
11,885.59	10,900.00	1,170.93	-355.51	END TURN - Start 6788.64 hold at 11885.59 MD
18,674.23	10,900.00	7,953.60	-640.20	TD at 18674.23



HOBBS OCD

APR 18 2016

RECEIVED

February 10, 2016

RE: Legacy Reserves – Lea Unit ⁶² H

Surface Agreement with S&S Inc. and Pearl Valley Limited Partnership

To whom it may concern:

This letter is to inform you that as of July 15th, 2015 Legacy Reserves Operating LP has secured a Ranch Wide Surface Use Agreement with Pat Sims, on behalf of S&S Inc. and Pearl Valley Limited Partnership for the purposes of building well pad locations and other necessary oil and gas operations on land owned by S&S and Pearl Valley.

The agreement will cover all of Section 24-20S-34E, and all of Section 19-20S-35E, among other lands held by Mr. Sims' two entities. If there are any questions for Pat Sims, he can be reached by phone or mail by using the following information:

- Phone – (575) 390-2642
- Address – PO Box 1046
Eunice, NM 88231

If you have any questions in regards to the Surface Use Agreement with S&S Inc. and Pearl Valley Limited Partnership please call Clay Roberts, Landman, at Legacy Reserves. He can be reached at 432-689-5206

Sincerely,

Clay Roberts
Landman

Design Plan, Operating & Maintenance Plan & Closure Plan for the OCD Form C-144

DESIGN PLAN:

Fluid & cuttings coming from drilling operations will pass over the Shale Shaker with the cuttings going to the CRI haul off bin and the cleaned fluid returning to the working steel pits.

Equipment includes:

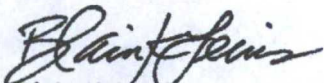
2-500 bbl steel tanks (fresh water for drilling)
2-700 bbl steel working pits (1400 bbls total)
2-20 cu yards steel haul off bins
2-pumps (CE FB1300)
2-shale shakers
1-mud cleaner (if needed)
1-centrifuge (if needed)

OPERATING AND MAINTENANCE PLAN:

Inspection to occur every tour for proper operation of system and individual components. If any problems are found they will be repaired and/or corrected immediately.

CLOSURE PLAN:

All haul bins containing cuttings will be removed from location and hauled to Controlled Recovery, Inc. (NM-01-0006) disposal site located near mile marker 66 on Highway 62/180.



Blain K. Lewis

Senior Operations Engineer

Plat for Closed Loop System

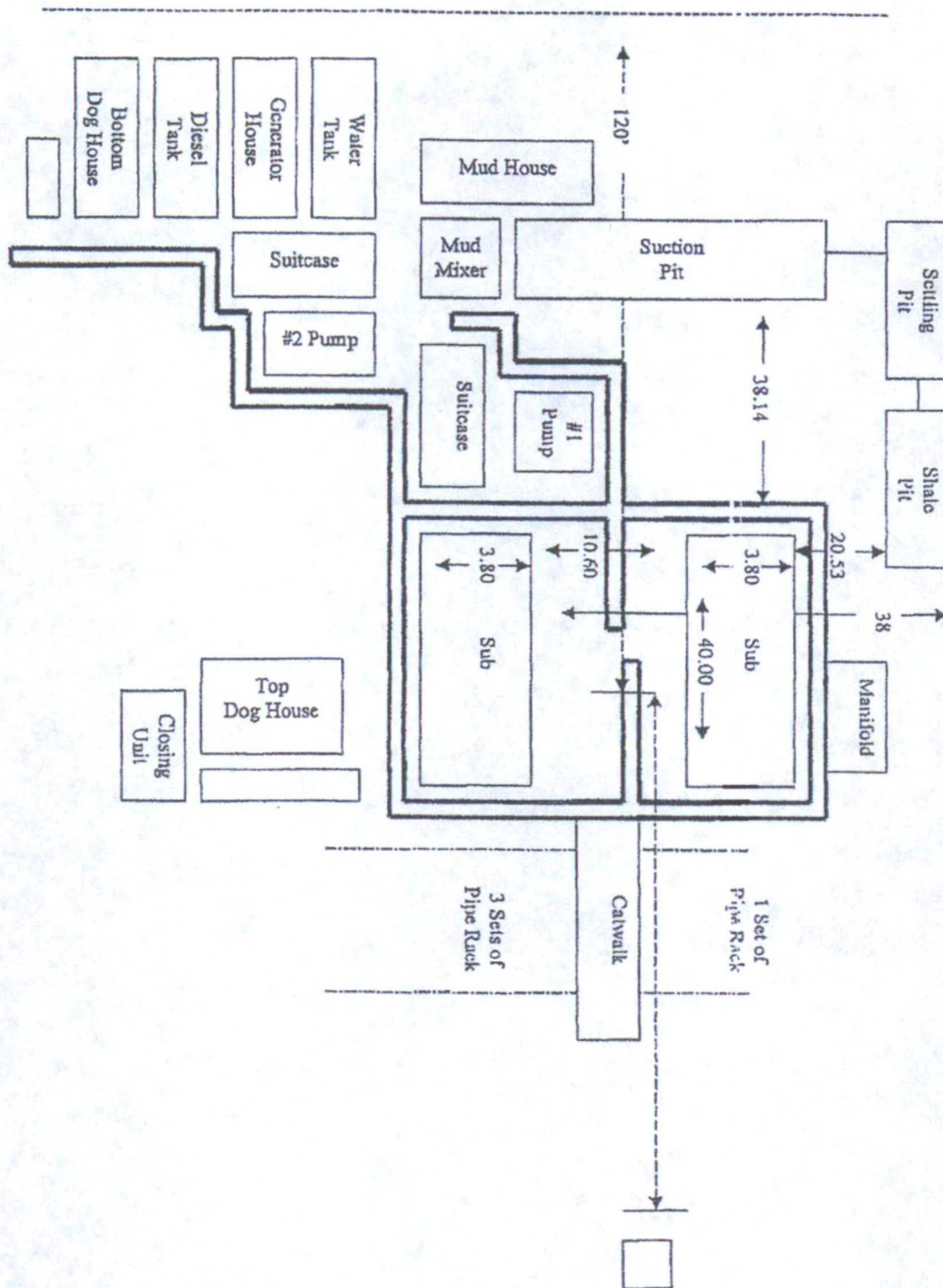


EXHIBIT D

**Rig Plat Only
LEA UNIT 62H
V-DOOR EAST**

