

Legacy Reserves

Lea County, NM (NAD83)

Lea

Lea Unit #200H

Original Wellbore

HOBBS OCD
JUN 12 2019
RECEIVED

Design: Original Wellbore

Daily Survey Report

17 December, 2018



Company: Legacy Reserves
Project: Lea County, NM (NAD83)
Site: Lea
Well: Lea Unit #200H
Wellbore: Original Wellbore
Design: Original Wellbore

Local Co-ordinate Reference: Well Lea Unit #200H
TVD Reference: RKB @ 3692.0usft
MD Reference: RKB @ 3692.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lea		
Site Position:		Northing:	567,587.00 usft
From:	Map	Easting:	797,256.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 33' 27.391 N
		Longitude:	103° 30' 9.733 W
		Grid Convergence:	0.45 °

Well	Lea Unit #200H		
Well Position	+N/-S	0.0 usft	Northing: 580,949.00 usft
	+E/-W	0.0 usft	Easting: 789,367.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,692.0 usft
		Latitude:	32° 35' 40.201 N
		Longitude:	103° 31' 40.724 W
		Ground Level:	3,665.0 usft

Wellbore	Original Wellbore		
Magnetics	Model Name	Sample Date	Declination
	IGRF2000	2/27/2018	(°)
			6.73
			Dip Angle (°)
			60.60
			Field Strength (nT)
			48,250.50000000

Design	Original Wellbore		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:		Tie On Depth:	0.0
	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			183.06

Survey Program	Date 12/17/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
78.0	5,579.0	Gyro (Original Wellbore)	GYRO-MWD
5,640.0	19,182.0	As Drilled (Original Wellbore)	MWD
			Description
			Gyro MWD
			MWD - Standard

Survey								
MD	Inc	Azi (azimuth)	TVD	V. Sec	N/S	E/W	DLeg	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	
78.0	0.29	275.96	78.0	0.0	0.0	-0.2	0.37	
168.0	0.37	153.44	168.0	0.2	-0.2	-0.3	0.64	
258.0	0.48	163.68	258.0	0.8	-0.8	-0.1	0.15	
349.0	0.39	167.24	349.0	1.5	-1.5	0.1	0.10	
439.0	0.33	159.62	439.0	2.0	-2.0	0.3	0.09	
529.0	0.34	157.89	529.0	2.5	-2.5	0.5	0.02	
619.0	0.26	144.84	619.0	2.9	-3.0	0.7	0.12	
712.0	0.27	143.71	712.0	3.2	-3.3	0.9	0.01	
805.0	0.32	146.03	805.0	3.6	-3.7	1.2	0.06	
898.0	0.32	165.22	898.0	4.1	-4.2	1.4	0.11	

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992.0	0.41	177.19	992.0	4.7	-4.7	1.5	0.12
1,085.0	0.52	185.28	1,085.0	5.4	-5.5	1.5	0.14
1,178.0	0.77	182.72	1,178.0	6.5	-6.5	1.4	0.27
1,271.0	0.86	189.74	1,271.0	7.8	-7.9	1.3	0.14
1,364.0	1.18	235.41	1,364.0	9.1	-9.1	0.4	0.91
1,458.0	1.75	260.01	1,457.9	10.0	-9.9	-1.8	0.89
1,551.0	2.38	277.25	1,550.9	10.2	-9.9	-5.2	0.94
1,644.0	3.37	280.64	1,643.7	9.7	-9.1	-9.8	1.08
1,737.0	3.62	281.47	1,736.6	8.9	-8.1	-15.3	0.27
1,830.0	3.08	284.26	1,829.4	7.9	-6.9	-20.6	0.61
1,924.0	4.22	281.03	1,923.2	7.0	-5.6	-26.5	1.23
2,018.0	6.97	282.10	2,016.8	5.6	-3.7	-35.4	2.93
2,111.0	9.18	285.44	2,108.8	3.1	-0.6	-48.1	2.43
2,204.0	9.28	284.84	2,200.6	0.0	3.3	-62.5	0.15
2,298.0	9.07	283.15	2,293.4	-2.8	7.0	-77.1	0.36
2,391.0	8.71	281.74	2,385.3	-5.2	10.1	-91.1	0.45
2,484.0	8.67	281.76	2,477.2	-7.3	12.9	-104.8	0.04
2,578.0	8.58	279.41	2,570.2	-9.2	15.5	-118.7	0.39
2,671.0	8.25	281.48	2,662.2	-10.9	18.0	-132.1	0.48
2,766.0	7.74	283.02	2,756.3	-13.0	20.8	-145.0	0.58
2,860.0	7.14	282.93	2,849.5	-15.1	23.5	-156.9	0.64
2,955.0	7.00	281.75	2,943.7	-17.0	26.0	-168.3	0.21
3,048.0	7.99	276.20	3,035.9	-18.2	27.9	-180.2	1.32
3,142.0	7.85	275.03	3,129.1	-18.8	29.1	-193.1	0.23
3,235.0	7.75	277.04	3,221.2	-19.4	30.5	-205.7	0.31
3,329.0	8.44	269.69	3,314.3	-19.5	31.2	-218.9	1.32
3,422.0	8.03	268.56	3,406.3	-18.6	31.0	-232.2	0.47
3,516.0	7.71	263.91	3,499.4	-17.0	30.2	-245.0	0.76
3,609.0	7.51	261.40	3,591.6	-14.8	28.6	-257.2	0.42
3,702.0	7.32	259.80	3,683.8	-12.2	26.6	-269.1	0.30
3,796.0	7.16	258.29	3,777.1	-9.4	24.4	-280.7	0.26
3,890.0	7.84	268.38	3,870.3	-7.3	23.0	-292.9	1.57
3,983.0	7.58	268.22	3,962.4	-6.3	22.6	-305.3	0.28
4,077.0	7.42	269.16	4,055.6	-5.4	22.4	-317.6	0.21
4,170.0	7.08	270.23	4,147.9	-4.7	22.3	-329.3	0.39
4,263.0	7.05	270.14	4,240.2	-4.1	22.3	-340.8	0.03
4,357.0	6.84	270.16	4,333.5	-3.5	22.4	-352.1	0.22
4,450.0	6.72	269.99	4,425.8	-3.0	22.4	-363.1	0.13
4,544.0	6.47	267.91	4,519.2	-2.2	22.2	-373.9	0.37
4,638.0	6.19	268.70	4,612.6	-1.3	21.9	-384.3	0.31
4,732.0	5.99	266.66	4,706.1	-0.4	21.5	-394.2	0.31
4,826.0	5.64	270.30	4,799.6	0.4	21.2	-403.7	0.54
4,921.0	5.29	267.13	4,894.2	1.0	21.0	-412.8	0.49
5,014.0	5.03	266.12	4,986.8	2.0	20.5	-421.1	0.30

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5,110.0	5.02	265.28	5,082.4	3.1	19.9	-429.5	0.08
5,204.0	4.95	264.70	5,176.1	4.2	19.2	-437.7	0.09
5,298.0	4.84	267.34	5,269.7	5.2	18.6	-445.7	0.27
5,393.0	4.86	267.94	5,364.4	5.9	18.3	-453.7	0.06
5,487.0	4.75	265.78	5,458.1	6.8	17.9	-461.5	0.23
5,579.0	4.58	267.05	5,549.8	7.7	17.4	-469.0	0.22
5,640.0	4.40	265.80	5,610.6	8.2	17.1	-473.8	0.34
5,735.0	1.80	273.70	5,705.4	8.7	16.9	-478.9	2.77
5,829.0	0.90	306.50	5,799.4	8.2	17.5	-481.0	1.23
5,924.0	1.00	320.80	5,894.4	7.2	18.6	-482.1	0.27
6,019.0	0.10	71.90	5,989.4	6.6	19.2	-482.5	1.09
6,113.0	0.30	251.20	6,083.4	6.6	19.2	-482.7	0.43
6,207.0	0.40	80.00	6,177.4	6.6	19.1	-482.6	0.74
6,301.0	0.90	80.00	6,271.4	6.4	19.3	-481.6	0.53
6,396.0	0.40	93.30	6,366.4	6.2	19.4	-480.5	0.55
6,490.0	0.40	111.80	6,460.4	6.3	19.3	-479.9	0.14
6,585.0	0.60	86.50	6,555.4	6.4	19.2	-479.0	0.31
6,679.0	0.40	106.30	6,649.4	6.4	19.1	-478.2	0.28
6,774.0	0.40	102.30	6,744.4	6.5	19.0	-477.6	0.03
6,868.0	0.90	170.50	6,838.4	7.3	18.2	-477.2	0.89
6,962.0	1.10	170.00	6,932.3	8.9	16.6	-476.9	0.21
7,056.0	0.90	162.40	7,026.3	10.5	15.0	-476.5	0.25
7,151.0	1.10	159.40	7,121.3	12.0	13.4	-476.0	0.22
7,245.0	1.10	154.80	7,215.3	13.6	11.7	-475.3	0.09
7,340.0	1.10	155.40	7,310.3	15.2	10.1	-474.5	0.01
7,434.0	1.20	149.40	7,404.3	16.9	8.4	-473.6	0.17
7,528.0	1.20	152.00	7,498.2	18.5	6.7	-472.6	0.06
7,623.0	0.40	125.30	7,593.2	19.6	5.6	-471.9	0.91
7,717.0	0.50	141.80	7,687.2	20.0	5.1	-471.4	0.17
7,812.0	0.50	153.60	7,782.2	20.7	4.4	-470.9	0.11
7,906.0	0.50	159.80	7,876.2	21.4	3.7	-470.6	0.06
8,000.0	0.50	166.40	7,970.2	22.2	2.9	-470.4	0.06
8,095.0	0.60	185.10	8,065.2	23.1	2.0	-470.3	0.21
8,189.0	0.50	179.60	8,159.2	24.0	1.1	-470.4	0.12
8,284.0	0.40	169.10	8,254.2	24.7	0.4	-470.3	0.14
8,378.0	0.30	132.50	8,348.2	25.2	-0.1	-470.1	0.25
8,472.0	0.50	111.10	8,442.2	25.5	-0.4	-469.5	0.26
8,567.0	0.40	119.00	8,537.2	25.8	-0.8	-468.8	0.12
8,661.0	0.40	106.50	8,631.2	26.0	-1.0	-468.2	0.09
8,756.0	0.70	128.10	8,726.2	26.4	-1.5	-467.4	0.38
8,851.0	0.60	177.30	8,821.2	27.2	-2.3	-467.0	0.58
8,945.0	0.80	270.00	8,915.2	27.8	-2.8	-467.6	1.09
9,039.0	0.60	206.34	9,009.2	28.3	-3.2	-468.5	0.81
9,133.0	1.20	185.60	9,103.2	29.7	-4.7	-468.8	0.72
9,228.0	1.10	185.40	9,198.1	31.6	-6.6	-469.0	0.11

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9,322.0	1.10	174.00	9,292.1	33.4	-8.4	-469.0	0.23
9,416.0	1.50	165.20	9,386.1	35.4	-10.4	-468.5	0.47
9,511.0	0.40	253.60	9,481.1	36.7	-11.7	-468.5	1.62
9,605.0	0.30	268.90	9,575.1	36.9	-11.8	-469.1	0.14
9,699.0	0.10	187.00	9,669.1	37.0	-11.9	-469.4	0.32
9,794.0	0.50	212.00	9,764.1	37.4	-12.4	-469.6	0.43
9,888.0	0.90	175.80	9,858.1	38.5	-13.4	-469.8	0.61
9,983.0	1.50	144.50	9,953.1	40.2	-15.2	-469.0	0.91
10,077.0	0.70	27.40	10,047.1	40.7	-15.7	-468.0	2.05
10,171.0	2.20	11.20	10,141.0	38.3	-13.4	-467.4	1.84
10,265.0	2.00	14.00	10,235.0	34.9	-10.1	-466.6	0.24
10,359.0	1.60	12.10	10,328.9	32.0	-7.2	-466.0	0.43
10,454.0	1.10	17.70	10,423.9	29.9	-5.0	-465.4	0.54
10,548.0	0.70	28.30	10,517.9	28.5	-3.6	-464.9	0.46
10,642.0	0.40	125.50	10,611.9	28.1	-3.3	-464.3	0.90
10,736.0	1.10	143.20	10,705.9	29.0	-4.2	-463.5	0.78
10,831.0	1.40	150.10	10,800.8	30.7	-6.0	-462.4	0.35
10,925.0	1.40	153.60	10,894.8	32.6	-8.0	-461.3	0.09
11,019.0	1.40	155.50	10,988.8	34.6	-10.1	-460.3	0.05
11,113.0	1.70	154.00	11,082.7	36.9	-12.4	-459.2	0.32
11,175.0	3.20	167.70	11,144.7	39.3	-14.9	-458.5	2.58
11,207.0	4.40	169.80	11,176.6	41.4	-17.0	-458.1	3.77
11,301.0	12.00	172.40	11,269.6	54.5	-30.2	-456.1	8.09
11,348.0	14.20	174.70	11,315.4	65.0	-40.8	-454.9	4.81
11,391.0	15.10	178.40	11,357.0	75.8	-51.7	-454.3	3.02
11,438.0	22.10	179.80	11,401.5	90.8	-66.6	-454.1	14.92
11,467.0	26.70	180.50	11,427.9	102.8	-78.6	-454.1	15.89
11,530.0	35.80	179.40	11,481.7	135.3	-111.3	-454.1	14.47
11,577.0	40.60	179.30	11,518.6	164.3	-140.3	-453.7	10.21
11,624.0	43.20	181.70	11,553.6	195.7	-171.7	-454.0	6.50
11,671.0	48.80	183.00	11,586.2	229.5	-205.5	-455.4	12.08
11,675.4	49.31	182.89	11,589.1	232.8	-208.8	-455.6	11.84
FTP-200H							
11,718.0	54.30	181.90	11,615.5	266.3	-242.2	-457.0	11.84
11,766.0	59.30	180.90	11,641.7	306.4	-282.4	-458.0	10.56
11,813.0	63.90	180.90	11,664.1	347.7	-323.7	-458.6	9.79
11,860.0	67.30	182.60	11,683.5	390.5	-366.5	-459.9	7.95
11,907.0	69.40	184.40	11,700.8	434.2	-410.1	-462.6	5.71
11,954.0	74.60	184.90	11,715.3	478.8	-454.6	-466.2	11.11
12,001.0	81.10	185.40	11,725.2	524.7	-500.3	-470.3	13.87
12,048.0	87.40	185.20	11,729.9	571.4	-546.9	-474.7	13.41
12,111.0	89.00	184.90	11,731.9	634.4	-609.6	-480.2	2.58
12,142.0	91.00	183.70	11,731.9	665.4	-640.5	-482.5	7.52
12,189.0	92.80	182.40	11,730.4	712.3	-687.4	-485.0	4.72

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12,237.0	92.70	182.30	11,728.1	760.3	-735.3	-487.0	0.29
12,331.0	93.60	183.70	11,722.9	854.1	-829.0	-491.9	1.77
12,370.0	93.82	184.23	11,720.4	893.0	-867.9	-494.6	1.47
12,464.0	91.51	183.34	11,716.0	986.9	-961.6	-500.8	2.63
12,559.0	90.38	182.05	11,714.4	1,081.9	-1,056.4	-505.3	1.81
12,653.0	91.17	181.54	11,713.2	1,175.9	-1,150.4	-508.2	1.00
12,748.0	89.86	180.41	11,712.3	1,270.8	-1,245.4	-509.8	1.82
12,842.0	90.24	181.28	11,712.2	1,364.7	-1,339.3	-511.2	1.01
13,031.0	89.83	178.76	11,712.1	1,553.4	-1,528.3	-511.3	1.35
13,125.0	90.93	179.78	11,711.5	1,647.2	-1,622.3	-510.1	1.60
13,220.0	89.48	179.00	11,711.1	1,742.0	-1,717.3	-509.1	1.73
13,314.0	89.21	178.47	11,712.2	1,835.8	-1,811.3	-507.0	0.63
13,408.0	90.00	178.38	11,712.9	1,929.5	-1,905.2	-504.4	0.85
13,502.0	88.35	178.83	11,714.2	2,023.2	-1,999.2	-502.1	1.82
13,596.0	88.49	178.23	11,716.8	2,116.8	-2,093.1	-499.7	0.66
13,691.0	88.56	178.17	11,719.3	2,211.5	-2,188.1	-496.7	0.10
13,785.0	88.66	178.14	11,721.5	2,305.1	-2,282.0	-493.7	0.11
13,879.0	88.69	180.24	11,723.7	2,398.8	-2,375.9	-492.4	2.23
13,974.0	89.45	180.60	11,725.3	2,493.7	-2,470.9	-493.1	0.89
14,068.0	89.83	181.31	11,725.8	2,587.7	-2,564.9	-494.6	0.86
14,170.0	90.38	181.98	11,725.7	2,689.6	-2,666.9	-497.6	0.85
14,264.0	89.52	180.94	11,725.7	2,783.6	-2,760.8	-500.0	1.44
14,358.0	88.08	179.64	11,727.7	2,877.5	-2,854.8	-500.4	2.06
14,453.0	88.69	178.87	11,730.4	2,972.2	-2,949.8	-499.2	1.03
14,548.0	88.59	179.15	11,732.6	3,066.9	-3,044.7	-497.6	0.31
14,642.0	88.76	178.32	11,734.8	3,160.6	-3,138.7	-495.5	0.90
14,736.0	88.63	178.10	11,737.0	3,254.3	-3,232.6	-492.6	0.27
14,830.0	88.87	178.20	11,739.0	3,347.9	-3,326.5	-489.5	0.28
14,925.0	89.24	178.47	11,740.6	3,442.6	-3,421.5	-486.8	0.48
15,019.0	90.07	180.16	11,741.1	3,536.4	-3,515.5	-485.6	2.00
15,113.0	90.03	181.24	11,741.1	3,630.3	-3,609.5	-486.8	1.15
15,208.0	89.93	181.45	11,741.1	3,725.3	-3,704.4	-489.0	0.24
15,302.0	89.18	181.71	11,741.8	3,819.2	-3,798.4	-491.6	0.84
15,396.0	90.21	180.62	11,742.3	3,913.2	-3,892.4	-493.5	1.60
15,491.0	90.07	181.02	11,742.1	4,008.1	-3,987.4	-494.9	0.45
15,586.0	90.38	179.33	11,741.7	4,103.0	-4,082.4	-495.2	1.81
15,680.0	90.03	177.73	11,741.4	4,196.7	-4,176.3	-492.8	1.74
15,774.0	89.45	177.52	11,741.8	4,290.2	-4,270.2	-488.9	0.66
15,869.0	89.52	179.43	11,742.7	4,384.9	-4,365.2	-486.3	2.01
15,963.0	89.52	178.14	11,743.4	4,478.7	-4,459.2	-484.3	1.37
16,058.0	89.79	177.51	11,744.0	4,573.3	-4,554.1	-480.7	0.72
16,152.0	90.14	178.33	11,744.1	4,666.9	-4,648.0	-477.3	0.95
16,246.0	90.00	180.62	11,744.0	4,760.7	-4,742.0	-476.5	2.44
16,340.0	89.97	180.68	11,744.0	4,854.6	-4,836.0	-477.5	0.07

Company: Legacy Reserves
 Project: Lea County, NM (NAD83)
 Site: Lea
 Well: Lea Unit #200H
 Wellbore: Original Wellbore
 Design: Original Wellbore

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

Well Lea Unit #200H
 RKB @ 3692.0usft
 RKB @ 3692.0usft
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
16,435.0	89.69	179.60	11,744.3	4,949.5	-4,931.0	-477.8	1.17
16,529.0	90.62	181.39	11,744.0	5,043.4	-5,025.0	-478.6	2.15
16,624.0	90.17	181.23	11,743.4	5,138.3	-5,120.0	-480.7	0.50
16,719.0	90.52	180.56	11,742.8	5,233.3	-5,215.0	-482.2	0.80
16,813.0	90.48	180.45	11,742.0	5,327.2	-5,309.0	-483.1	0.12
16,907.0	90.65	180.08	11,741.0	5,421.1	-5,402.9	-483.5	0.43
17,002.0	90.79	179.84	11,739.8	5,515.9	-5,497.9	-483.4	0.29
17,190.0	90.41	179.76	11,737.9	5,703.6	-5,685.9	-482.8	0.21
17,284.0	90.58	178.21	11,737.1	5,797.3	-5,779.9	-481.1	1.66
17,379.0	89.24	176.61	11,737.2	5,891.9	-5,874.8	-476.8	2.20
17,467.0	88.87	175.68	11,738.7	5,979.2	-5,962.6	-470.9	1.14
17,561.0	90.62	176.49	11,739.1	6,072.5	-6,056.4	-464.5	2.05
17,655.0	90.89	180.44	11,737.8	6,166.2	-6,150.3	-462.0	4.21
17,750.0	91.17	181.76	11,736.1	6,261.1	-6,245.3	-463.8	1.42
17,844.0	90.14	184.08	11,735.1	6,355.1	-6,339.1	-468.6	2.70
17,939.0	90.96	185.11	11,734.2	6,450.1	-6,433.8	-476.2	1.39
18,033.0	90.89	182.43	11,732.6	6,544.0	-6,527.6	-482.4	2.85
18,127.0	90.55	178.60	11,731.5	6,637.9	-6,621.6	-483.2	4.09
18,222.0	90.86	177.07	11,730.3	6,732.5	-6,716.5	-479.6	1.64
18,316.0	90.41	177.66	11,729.2	6,826.1	-6,810.4	-475.3	0.79
18,410.0	90.38	179.53	11,728.6	6,919.8	-6,904.4	-473.0	1.99
18,505.0	90.48	179.71	11,727.9	7,014.6	-6,999.4	-472.4	0.22
18,599.0	90.21	180.53	11,727.3	7,108.5	-7,093.3	-472.6	0.92
18,693.0	90.79	179.81	11,726.5	7,202.3	-7,187.3	-472.8	0.98
18,787.0	90.93	179.41	11,725.1	7,296.2	-7,281.3	-472.2	0.45
18,882.0	90.79	178.77	11,723.7	7,390.9	-7,376.3	-470.7	0.69
18,975.0	89.79	177.34	11,723.2	7,483.6	-7,469.2	-467.5	1.88
19,070.0	90.65	177.09	11,722.8	7,578.1	-7,564.1	-462.9	0.94
19,140.0	90.14	176.33	11,722.3	7,647.6	-7,634.0	-458.9	1.31
19,182.0	90.14	176.33	11,722.2	7,689.3	-7,675.9	-456.2	0.00

BHL-200H

Checked By: _____ Approved By: _____ Date: _____