



Legacy Reserves

Lea County, NM (NAD-27 2015)

Lea Unit #48H

Lea Unit #48H

OH

Design: OH

Standard Survey Report

31 October, 2016





TDS
Survey Report



Company:	Legacy Reserves	Local Co-ordinate Reference:	Well Lea Unit #48H
Project:	Lea County, NM (NAD-27 2015)	TVD Reference:	KB @ 3694.00usft (McVay 4)
Site:	Lea Unit #48H	MD Reference:	KB @ 3694.00usft (McVay 4)
Well:	Lea Unit #48H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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 #48H				
Site Position:		Northing:	581,680.30 usft	Latitude:	32° 35' 47.319 N
From:	Map	Easting:	752,101.40 usft	Longitude:	103° 30' 53.127 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.44 °

Well	Lea Unit #48H					
Well Position	+N/-S	0.00 usft	Northing:	581,680.30 usft	Latitude:	32° 35' 47.319 N
	+E/-W	0.00 usft	Easting:	752,101.40 usft	Longitude:	103° 30' 53.127 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,676.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/18/2015	7.16	60.44	48,362

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.27	

Survey Program		Date	10/31/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	15,065.00	TDS MWD #1 (OH)	MWD	MWD - Standard	

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
200.00	0.90	65.10	199.99	0.66	1.42	-0.64	0.45	0.45	0.00
First TDS MWD Survey									
383.00	1.20	62.40	382.96	2.15	4.43	-2.10	0.17	0.16	-1.48
565.00	1.50	65.80	564.91	4.01	8.29	-3.91	0.17	0.16	1.87
655.00	2.30	64.60	654.86	5.27	10.99	-5.13	0.89	0.89	-1.33
745.00	2.10	68.80	744.79	6.64	14.16	-6.46	0.29	-0.22	4.67
837.00	2.20	59.60	836.73	8.15	17.26	-7.92	0.39	0.11	-10.00
928.00	2.70	55.90	927.65	10.23	20.54	-9.97	0.58	0.55	-4.07
1,020.00	3.20	58.60	1,019.52	12.78	24.52	-12.47	0.56	0.54	2.93
1,111.00	3.00	55.10	1,110.39	15.47	28.65	-15.10	0.30	-0.22	-3.85



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,203.00	2.70	58.40	1,202.28	17.98	32.47	-17.57	0.37	-0.33	3.59
1,295.00	2.80	45.30	1,294.17	20.70	35.91	-20.24	0.69	0.11	-14.24
1,477.00	3.00	32.60	1,475.94	27.84	41.63	-27.30	0.37	0.11	-6.98
1,571.00	2.10	3.40	1,569.85	31.63	43.06	-31.08	1.65	-0.96	-31.06
1,760.00	2.70	332.00	1,758.69	39.02	41.18	-38.49	0.75	0.32	-16.61
1,854.00	2.20	332.30	1,852.61	42.57	39.30	-42.06	0.53	-0.53	0.32
1,948.00	1.90	334.50	1,946.54	45.57	37.79	-45.09	0.33	-0.32	2.34
2,137.00	1.60	344.80	2,135.46	50.95	35.75	-50.49	0.23	-0.16	5.45
2,231.00	1.50	345.00	2,229.42	53.40	35.09	-52.95	0.11	-0.11	0.21
2,325.00	1.30	338.50	2,323.39	55.58	34.38	-55.14	0.27	-0.21	-6.91
2,514.00	0.90	357.40	2,512.36	59.06	33.52	-58.63	0.28	-0.21	10.00
2,608.00	0.90	355.20	2,606.35	60.53	33.43	-60.10	0.04	0.00	-2.34
2,702.00	0.80	13.90	2,700.34	61.91	33.52	-61.47	0.31	-0.11	19.89
2,797.00	0.70	24.20	2,795.33	63.08	33.92	-62.64	0.18	-0.11	10.84
2,891.00	0.80	40.20	2,889.32	64.10	34.58	-63.66	0.25	0.11	17.02
2,985.00	0.90	43.00	2,983.31	65.15	35.51	-64.69	0.12	0.11	2.98
3,079.00	0.90	52.40	3,077.30	66.14	36.60	-65.66	0.16	0.00	10.00
3,174.00	0.80	52.00	3,172.29	67.00	37.71	-66.51	0.11	-0.11	-0.42
3,268.00	0.70	51.50	3,266.28	67.76	38.68	-67.26	0.11	-0.11	-0.53
3,362.00	0.70	49.30	3,360.27	68.49	39.56	-67.98	0.03	0.00	-2.34
3,456.00	0.50	46.60	3,454.27	69.15	40.29	-68.63	0.21	-0.21	-2.87
3,550.00	0.10	2.80	3,548.27	69.51	40.60	-68.99	0.46	-0.43	-46.60
3,644.00	0.10	203.60	3,642.27	69.52	40.57	-69.00	0.21	0.00	-169.36
3,739.00	0.40	206.30	3,737.27	69.15	40.39	-68.63	0.32	0.32	2.84
3,833.00	0.60	197.40	3,831.26	68.38	40.10	-67.87	0.23	0.21	-9.47
3,927.00	0.90	199.20	3,925.26	67.22	39.71	-66.70	0.32	0.32	1.91
4,021.00	1.10	206.40	4,019.24	65.71	39.06	-65.21	0.25	0.21	7.66
4,115.00	1.30	200.90	4,113.22	63.91	38.28	-63.41	0.25	0.21	-5.85
4,209.00	1.40	203.00	4,207.19	61.85	37.45	-61.37	0.12	0.11	2.23
4,304.00	1.40	208.30	4,302.17	59.76	36.45	-59.29	0.14	0.00	5.58
4,398.00	1.30	209.70	4,396.14	57.82	35.37	-57.37	0.11	-0.11	1.49
4,492.00	1.30	206.10	4,490.12	55.94	34.38	-55.50	0.09	0.00	-3.83
4,586.00	1.30	203.80	4,584.09	54.01	33.48	-53.58	0.06	0.00	-2.45
4,680.00	1.30	202.60	4,678.07	52.05	32.64	-51.63	0.03	0.00	-1.28
4,775.00	0.90	206.00	4,773.05	50.38	31.90	-49.97	0.43	-0.42	3.58
4,869.00	1.10	198.20	4,867.04	48.86	31.29	-48.46	0.26	0.21	-8.30
5,057.00	0.90	209.00	5,055.01	45.86	30.01	-45.47	0.15	-0.11	5.74
5,152.00	0.60	217.50	5,150.00	44.81	29.35	-44.43	0.34	-0.32	8.95
5,246.00	0.60	211.10	5,243.99	44.00	28.79	-43.63	0.07	0.00	-6.81
5,340.00	0.70	216.90	5,337.99	43.12	28.19	-42.75	0.13	0.11	6.17
5,434.00	0.70	230.80	5,431.98	42.29	27.40	-41.94	0.18	0.00	14.79
5,529.00	0.50	233.00	5,526.98	41.68	26.62	-41.34	0.21	-0.21	2.32
5,649.00	0.80	214.80	5,646.97	40.67	25.73	-40.34	0.30	0.25	-15.17



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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)
5,743.00	0.80	214.80	5,740.96	39.60	24.98	-39.28	0.00	0.00	0.00
5,837.00	1.10	217.70	5,834.95	38.34	24.05	-38.03	0.32	0.32	3.09
5,931.00	1.10	219.50	5,928.93	36.93	22.93	-36.64	0.04	0.00	1.91
6,026.00	1.00	233.90	6,023.91	35.74	21.68	-35.46	0.30	-0.11	15.16
6,120.00	1.10	249.60	6,117.90	34.94	20.17	-34.68	0.32	0.11	16.70
6,214.00	1.30	262.60	6,211.88	34.49	18.26	-34.26	0.36	0.21	13.83
6,308.00	1.60	266.30	6,305.85	34.27	15.90	-34.07	0.33	0.32	3.94
6,403.00	1.70	266.80	6,400.81	34.11	13.17	-33.94	0.11	0.11	0.53
6,497.00	1.70	266.60	6,494.77	33.95	10.38	-33.81	0.01	0.00	-0.21
6,591.00	1.50	262.80	6,588.73	33.71	7.77	-33.61	0.24	-0.21	-4.04
6,779.00	1.40	253.30	6,776.67	32.74	3.13	-32.70	0.14	-0.05	-5.05
6,874.00	1.40	251.60	6,871.64	32.04	0.92	-32.03	0.04	0.00	-1.79
6,968.00	1.40	248.00	6,965.61	31.25	-1.24	-31.26	0.09	0.00	-3.83
7,062.00	1.40	245.80	7,059.58	30.35	-3.35	-30.39	0.06	0.00	-2.34
7,156.00	1.50	242.30	7,153.55	29.30	-5.49	-29.37	0.14	0.11	-3.72
7,250.00	1.50	245.30	7,247.52	28.22	-7.69	-28.31	0.08	0.00	3.19
7,344.00	1.40	240.30	7,341.49	27.14	-9.81	-27.26	0.17	-0.11	-5.32
7,533.00	0.90	121.30	7,530.47	25.22	-10.55	-25.35	1.06	-0.26	-62.96
7,627.00	0.70	134.90	7,624.46	24.43	-9.51	-24.55	0.29	-0.21	14.47
7,721.00	0.80	137.00	7,718.45	23.55	-8.65	-23.65	0.11	0.11	2.23
7,815.00	0.70	138.40	7,812.45	22.64	-7.83	-22.73	0.11	-0.11	1.49
7,909.00	0.70	135.20	7,906.44	21.80	-7.04	-21.89	0.04	0.00	-3.40
8,004.00	0.70	150.20	8,001.43	20.88	-6.34	-20.96	0.19	0.00	15.79
8,098.00	0.60	148.60	8,095.43	19.97	-5.80	-20.04	0.11	-0.11	-1.70
8,192.00	0.70	141.40	8,189.42	19.10	-5.19	-19.16	0.14	0.11	-7.66
8,286.00	0.70	171.70	8,283.41	18.08	-4.74	-18.14	0.39	0.00	32.23
8,381.00	0.70	203.20	8,378.41	16.97	-4.89	-17.03	0.40	0.00	33.16
8,475.00	0.80	216.20	8,472.40	15.92	-5.50	-15.98	0.21	0.11	13.83
8,569.00	0.90	224.10	8,566.39	14.86	-6.40	-14.94	0.16	0.11	8.40
8,663.00	1.00	219.20	8,660.37	13.69	-7.44	-13.78	0.14	0.11	-5.21
8,758.00	1.80	214.00	8,755.35	11.81	-8.79	-11.92	0.85	0.84	-5.47
8,852.00	2.00	222.70	8,849.29	9.38	-10.73	-9.52	0.37	0.21	9.26
8,946.00	2.00	210.30	8,943.24	6.76	-12.67	-6.92	0.46	0.00	-13.19
9,040.00	2.20	202.50	9,037.17	3.68	-14.19	-3.86	0.37	0.21	-8.30
9,123.00	2.00	198.90	9,120.12	0.83	-15.27	-1.03	0.29	-0.24	-4.34
9,184.00	2.70	203.50	9,181.07	-1.49	-16.19	1.28	1.19	1.15	7.54
9,232.00	7.30	193.40	9,228.87	-5.50	-17.35	5.27	9.72	9.58	-21.04
9,279.00	13.50	191.40	9,275.08	-13.79	-19.12	13.54	13.21	13.19	-4.26
9,326.00	17.90	190.50	9,320.31	-26.27	-21.53	26.00	9.38	9.36	-1.91
9,373.00	24.10	188.50	9,364.17	-42.88	-24.26	42.57	13.28	13.19	-4.26
9,420.00	30.20	182.90	9,405.98	-64.20	-26.28	63.86	14.06	12.98	-11.91
9,467.00	33.90	178.00	9,445.82	-89.12	-26.42	88.77	9.62	7.87	-10.43
9,515.00	37.80	178.00	9,484.71	-117.21	-25.44	116.87	8.13	8.13	0.00

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9,562.00	40.50	178.50	9,521.16	-146.86	-24.54	146.54	5.78	5.74	1.06
9,609.00	42.30	178.00	9,556.41	-177.93	-23.59	177.62	3.89	3.83	-1.06
9,656.00	47.20	177.00	9,589.78	-210.98	-22.13	210.68	10.53	10.43	-2.13
9,703.00	52.40	178.10	9,620.11	-246.83	-20.61	246.55	11.21	11.06	2.34
9,750.00	55.90	178.70	9,647.63	-284.90	-19.55	284.63	7.52	7.45	1.28
9,798.00	60.80	179.40	9,672.81	-325.75	-18.88	325.48	10.28	10.21	1.46
9,845.00	64.70	178.90	9,694.33	-367.52	-18.26	367.25	8.35	8.30	-1.06
9,892.00	69.90	178.40	9,712.46	-410.85	-17.23	410.60	11.11	11.06	-1.06
9,939.00	72.70	177.80	9,727.53	-455.34	-15.76	455.10	6.08	5.96	-1.28
9,986.00	76.20	177.20	9,740.12	-500.57	-13.78	500.35	7.55	7.45	-1.28
10,014.00	77.40	176.60	9,746.52	-527.79	-12.30	527.59	4.77	4.29	-2.14
10,061.00	79.60	177.10	9,755.89	-573.77	-9.77	573.60	4.80	4.68	1.06
10,108.00	80.40	178.50	9,764.05	-620.02	-8.00	619.87	3.39	1.70	2.98
10,155.00	81.90	180.70	9,771.28	-666.46	-7.68	666.31	5.62	3.19	4.68
10,202.00	83.80	180.70	9,777.13	-713.09	-8.25	712.92	4.04	4.04	0.00
10,249.00	86.80	179.20	9,780.98	-759.92	-8.20	759.76	7.13	6.38	-3.19
10,297.00	89.30	178.10	9,782.61	-807.88	-7.07	807.72	5.69	5.21	-2.29
10,391.00	88.90	178.10	9,784.09	-901.81	-3.96	901.69	0.43	-0.43	0.00
10,450.00	89.28	178.48	9,785.03	-960.78	-2.20	960.67	0.90	0.64	0.64
As-Drilled FTP									
10,485.00	89.50	178.70	9,785.40	-995.77	-1.33	995.67	0.90	0.64	0.64
10,579.00	89.70	179.50	9,786.06	-1,089.75	0.14	1,089.66	0.88	0.21	0.85
10,674.00	89.70	179.40	9,786.56	-1,184.75	1.06	1,184.66	0.11	0.00	-0.11
10,768.00	90.20	179.80	9,786.64	-1,278.74	1.71	1,278.66	0.68	0.53	0.43
10,862.00	92.20	180.40	9,784.67	-1,372.72	1.55	1,372.62	2.22	2.13	0.64
10,956.00	91.60	180.20	9,781.55	-1,466.66	1.06	1,466.56	0.67	-0.64	-0.21
11,051.00	91.80	180.00	9,778.74	-1,561.62	0.89	1,561.51	0.30	0.21	-0.21
11,145.00	91.10	178.10	9,776.36	-1,655.57	2.45	1,655.47	2.15	-0.74	-2.02
11,239.00	92.00	178.50	9,773.81	-1,749.50	5.24	1,749.42	1.05	0.96	0.43
11,333.00	91.10	180.40	9,771.27	-1,843.45	6.14	1,843.38	2.24	-0.96	2.02
11,427.00	93.00	180.80	9,767.91	-1,937.38	5.15	1,937.29	2.07	2.02	0.43
11,521.00	91.30	181.00	9,764.38	-2,031.30	3.68	2,031.18	1.82	-1.81	0.21
11,616.00	89.50	180.40	9,763.72	-2,126.29	2.52	2,126.15	2.00	-1.89	-0.63
11,710.00	88.40	180.50	9,765.44	-2,220.27	1.78	2,220.11	1.18	-1.17	0.11
11,804.00	87.70	179.70	9,768.64	-2,314.21	1.62	2,314.04	1.13	-0.74	-0.85
11,898.00	89.30	179.10	9,771.10	-2,408.17	2.60	2,408.01	1.82	1.70	-0.64
11,992.00	89.70	178.90	9,771.92	-2,502.15	4.24	2,502.00	0.48	0.43	-0.21
12,087.00	90.20	179.00	9,772.00	-2,597.14	5.98	2,597.00	0.54	0.53	0.11
12,181.00	90.00	179.90	9,771.84	-2,691.13	6.88	2,691.00	0.98	-0.21	0.96
12,275.00	88.60	180.30	9,772.99	-2,785.12	6.72	2,784.98	1.55	-1.49	0.43
12,369.00	89.90	180.00	9,774.22	-2,879.11	6.47	2,878.96	1.42	1.38	-0.32
12,463.00	92.40	179.60	9,772.33	-2,973.08	6.80	2,972.93	2.69	2.66	-0.43
12,557.00	91.50	179.10	9,769.13	-3,067.02	7.87	3,066.87	1.10	-0.96	-0.53
12,652.00	88.10	178.00	9,769.47	-3,161.98	10.27	3,161.85	3.76	-3.58	-1.16

Company: Legacy Reserves
Project: Lea County, NM (NAD-27 2015)
Site: Lea Unit #48H
Well: Lea Unit #48H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB @ 3694.00usft (McVay 4)
MD Reference: KB @ 3694.00usft (McVay 4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
12,746.00	87.20	178.50	9,773.32	-3,255.85	13.14	3,255.75	1.10	-0.96	0.53
12,840.00	88.30	177.80	9,777.01	-3,349.73	16.17	3,349.66	1.39	1.17	-0.74
12,934.00	87.90	177.50	9,780.13	-3,443.60	20.02	3,443.57	0.53	-0.43	-0.32
13,028.00	88.10	177.20	9,783.41	-3,537.44	24.37	3,537.46	0.38	0.21	-0.32
13,123.00	88.90	177.60	9,785.89	-3,632.31	28.68	3,632.38	0.94	0.84	0.42
13,217.00	89.80	176.90	9,786.96	-3,726.19	33.18	3,726.31	1.21	0.96	-0.74
13,311.00	92.00	176.60	9,785.48	-3,820.02	38.51	3,820.20	2.36	2.34	-0.32
13,405.00	93.60	176.60	9,780.89	-3,913.74	44.08	3,913.99	1.70	1.70	0.00
13,499.00	94.00	176.90	9,774.66	-4,007.38	49.40	4,007.69	0.53	0.43	0.32
13,593.00	94.10	176.40	9,768.02	-4,100.99	54.88	4,101.36	0.54	0.11	-0.53
13,687.00	92.70	175.30	9,762.45	-4,194.57	61.67	4,195.02	1.89	-1.49	-1.17
13,781.00	91.80	177.10	9,758.76	-4,288.29	67.89	4,288.81	2.14	-0.96	1.91
13,876.00	90.60	179.00	9,756.77	-4,383.21	71.12	4,383.76	2.37	-1.26	2.00
13,970.00	90.20	179.60	9,756.11	-4,477.20	72.27	4,477.76	0.77	-0.43	0.64
14,064.00	90.70	180.40	9,755.37	-4,571.19	72.27	4,571.74	1.00	0.53	0.85
14,158.00	90.30	180.60	9,754.55	-4,665.19	71.45	4,665.72	0.48	-0.43	0.21
14,252.00	90.80	181.50	9,753.65	-4,759.17	69.73	4,759.67	1.10	0.53	0.96
14,347.00	90.30	181.30	9,752.74	-4,854.13	67.41	4,854.60	0.57	-0.53	-0.21
14,441.00	90.80	182.20	9,751.84	-4,948.08	64.54	4,948.50	1.10	0.53	0.96
14,535.00	89.70	181.50	9,751.43	-5,042.03	61.50	5,042.41	1.39	-1.17	-0.74
14,629.00	90.20	181.70	9,751.51	-5,135.99	58.88	5,136.33	0.57	0.53	0.21
14,723.00	90.50	181.40	9,750.93	-5,229.96	56.34	5,230.25	0.45	0.32	-0.32
14,817.00	91.10	181.60	9,749.62	-5,323.92	53.88	5,324.17	0.67	0.64	0.21
14,912.00	92.00	181.20	9,747.05	-5,418.85	51.56	5,419.07	1.04	0.95	-0.42
15,006.00	91.10	180.50	9,744.51	-5,512.81	50.16	5,513.00	1.21	-0.96	-0.74
Last TDS MWD Survey									
15,065.00	91.10	180.50	9,743.38	-5,571.79	49.65	5,571.97	0.00	0.00	0.00
Projection to Bit/LTP/TD									

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
200.00	199.99	0.66	1.42	First TDS MWD Survey
10,450.00	9,785.03	-960.78	-2.20	As-Drilled FTP
15,006.00	9,744.51	-5,512.81	50.16	Last TDS MWD Survey
15,065.00	9,743.38	-5,571.79	49.65	Projection to Bit/LTP/TD

Checked By: _____ Approved By: _____ Date: _____