



Legacy Reserves

Lea County, NM (NAD-27 2015)

Lea Unit #44H

Lea Unit #44H

OH

Design: OH

Standard Survey Report

19 November, 2015





TDS
Survey Report



Company:	Legacy Reserves	Local Co-ordinate Reference:	Well Lea Unit #44H
Project:	Lea County, NM (NAD-27 2015)	TVD Reference:	KB @ 3690.00usft (McVay 4)
Site:	Lea Unit #44H	MD Reference:	KB @ 3690.00usft (McVay 4)
Well:	Lea Unit #44H	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 #44H			
Site Position:		Northing:	581,667.80 usft	Latitude: 32° 35' 47.310 N
From:	Map	Easting:	750,581.40 usft	Longitude: 103° 31' 10.894 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: 0.44 °

Well	Lea Unit #44H			
Well Position	+N/-S	0.00 usft	Northing:	581,667.80 usft
	+E/-W	0.00 usft	Easting:	750,581.40 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,672.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/18/2015	7.16	60.44	48,361

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	181.93

Survey Program		Date	11/19/2015	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	10,255.00	RTX Gyro #1 (OH)	ISCWSA-GYRO-3	Biaxial Semi-Cont. Gyro
10,268.00	16,252.00	TDS MWD #2 (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
100.00	0.31	279.64	100.00	0.05	-0.27	-0.04	0.31	0.31	0.00
200.00	0.39	17.18	200.00	0.42	-0.43	-0.40	0.53	0.08	97.54
300.00	0.24	253.16	300.00	0.68	-0.53	-0.66	0.56	-0.15	-124.02
400.00	0.23	65.52	400.00	0.70	-0.55	-0.68	0.47	-0.01	172.36
500.00	0.20	63.90	500.00	0.86	-0.21	-0.86	0.03	-0.03	-1.62
600.00	0.07	66.81	600.00	0.96	0.00	-0.96	0.13	-0.13	2.91
700.00	0.07	307.97	700.00	1.03	0.01	-1.02	0.12	0.00	-118.84
800.00	0.19	50.53	800.00	1.17	0.09	-1.17	0.22	0.12	102.56
900.00	0.20	99.59	900.00	1.24	0.39	-1.26	0.16	0.01	49.06



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Well:	Lea Unit #44H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
1,000.00	0.36	278.63	1,000.00	1.26	0.25	-1.27	0.56	0.16	179.04
1,100.00	0.28	258.73	1,099.99	1.26	-0.30	-1.25	0.14	-0.08	-19.90
1,200.00	0.33	131.22	1,199.99	1.02	-0.32	-1.01	0.55	0.05	-127.51
1,300.00	0.27	301.16	1,299.99	0.96	-0.31	-0.95	0.60	-0.06	169.94
1,400.00	0.29	1.82	1,399.99	1.33	-0.50	-1.31	0.28	0.02	60.66
1,500.00	0.66	254.95	1,499.99	1.43	-1.05	-1.40	0.79	0.37	-106.87
1,600.00	0.59	8.24	1,599.99	1.79	-1.53	-1.74	1.04	-0.07	113.29
1,700.00	0.68	305.37	1,699.98	2.65	-1.94	-2.58	0.67	0.09	-62.87
1,800.00	0.41	296.96	1,799.98	3.15	-2.74	-3.06	0.28	-0.27	-8.41
1,900.00	0.20	345.54	1,899.97	3.48	-3.11	-3.38	0.32	-0.21	48.58
2,000.00	0.14	159.65	1,999.97	3.54	-3.11	-3.43	0.34	-0.06	174.11
2,100.00	0.12	14.28	2,099.97	3.53	-3.04	-3.42	0.25	-0.02	-145.37
2,200.00	0.13	151.35	2,199.97	3.53	-2.96	-3.43	0.23	0.01	137.07
2,300.00	0.18	45.76	2,299.97	3.54	-2.79	-3.44	0.25	0.05	-105.59
2,400.00	0.27	164.17	2,399.97	3.42	-2.62	-3.33	0.39	0.09	118.41
2,500.00	0.31	86.18	2,499.97	3.21	-2.28	-3.13	0.37	0.04	-77.99
2,600.00	0.42	151.90	2,599.97	2.91	-1.84	-2.84	0.41	0.11	65.72
2,700.00	0.78	146.38	2,699.97	2.02	-1.29	-1.97	0.36	0.36	-5.52
2,800.00	1.79	61.32	2,799.95	2.20	0.46	-2.21	1.89	1.01	-85.06
2,900.00	2.14	66.73	2,899.89	3.69	3.54	-3.80	0.40	0.35	5.41
3,000.00	2.08	67.88	2,999.82	5.11	6.94	-5.34	0.07	-0.06	1.15
3,100.00	1.95	75.61	3,099.76	6.21	10.27	-6.56	0.30	-0.13	7.73
3,200.00	1.93	71.27	3,199.70	7.18	13.51	-7.63	0.15	-0.02	-4.34
3,300.00	1.98	52.42	3,299.64	8.77	16.48	-9.32	0.64	0.05	-18.85
3,400.00	1.46	39.97	3,399.60	10.80	18.66	-11.42	0.64	-0.52	-12.45
3,500.00	0.95	67.31	3,499.58	12.10	20.25	-12.77	0.75	-0.51	27.34
3,600.00	0.63	57.85	3,599.57	12.71	21.48	-13.43	0.34	-0.32	-9.46
3,700.00	0.61	173.23	3,699.56	12.47	22.00	-13.21	1.05	-0.02	115.38
3,800.00	0.59	330.74	3,799.56	12.39	21.82	-13.12	1.18	-0.02	157.51
3,900.00	0.55	297.90	3,899.56	13.07	21.14	-13.77	0.32	-0.04	-32.84
4,000.00	0.56	154.78	3,999.56	12.85	20.92	-13.55	1.05	0.01	-143.12
4,100.00	0.48	159.36	4,099.55	12.02	21.28	-12.73	0.09	-0.08	4.58
4,200.00	0.14	284.23	4,199.55	11.65	21.31	-12.37	0.57	-0.34	124.87
4,300.00	0.08	319.52	4,299.55	11.74	21.15	-12.44	0.09	-0.06	35.29
4,400.00	0.12	44.82	4,399.55	11.87	21.17	-12.57	0.14	0.04	85.30
4,500.00	0.15	229.35	4,499.55	11.85	21.15	-12.56	0.27	0.03	-175.47
4,600.00	0.39	192.15	4,599.55	11.44	20.98	-12.14	0.29	0.24	-37.20
4,700.00	0.58	26.34	4,699.55	11.56	21.13	-12.26	0.96	0.19	-165.81
4,800.00	0.50	154.34	4,799.54	11.62	21.54	-12.34	0.97	-0.08	128.00
4,900.00	0.62	1.62	4,899.54	11.77	21.75	-12.49	1.09	0.12	-152.72
5,000.00	0.71	208.33	4,999.54	11.76	21.47	-12.48	1.29	0.09	-153.29
5,100.00	0.63	151.04	5,099.53	10.73	21.44	-11.45	0.65	-0.08	-57.29
5,200.00	0.59	237.39	5,199.53	9.98	21.27	-10.69	0.84	-0.04	86.35



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
5,300.00	0.61	314.69	5,299.53	10.07	20.46	-10.76	0.75	0.02	77.30
5,400.00	0.57	118.87	5,399.52	10.21	20.52	-10.89	1.17	-0.04	164.18
5,500.00	0.50	34.07	5,499.52	10.33	21.20	-11.04	0.72	-0.07	-84.80
5,600.00	0.52	279.34	5,599.52	10.76	21.00	-11.46	0.86	0.02	-114.73
5,700.00	0.53	225.58	5,699.52	10.51	20.22	-11.19	0.47	0.01	-53.76
5,800.00	0.59	209.66	5,799.51	9.74	19.63	-10.40	0.17	0.06	-15.92
5,900.00	0.59	242.00	5,899.51	9.05	18.92	-9.69	0.33	0.00	32.34
6,000.00	0.64	38.36	5,999.50	9.25	18.82	-9.88	1.20	0.05	156.36
6,100.00	0.66	67.69	6,099.50	9.91	19.69	-10.56	0.33	0.02	29.33
6,200.00	0.46	119.43	6,199.49	9.93	20.58	-10.61	0.52	-0.20	51.74
6,300.00	0.61	158.48	6,299.49	9.23	21.12	-9.94	0.38	0.15	39.05
6,400.00	0.64	252.98	6,399.49	8.58	20.78	-9.27	0.92	0.03	94.50
6,500.00	0.87	149.17	6,499.48	7.76	20.64	-8.45	1.20	0.23	-103.81
6,600.00	0.57	139.31	6,599.47	6.73	21.35	-7.45	0.32	-0.30	-9.86
6,700.00	0.65	237.64	6,699.47	6.05	21.20	-6.76	0.92	0.08	98.33
6,800.00	0.65	199.55	6,799.46	5.21	20.53	-5.90	0.42	0.00	-38.09
6,900.00	0.65	210.57	6,899.46	4.19	20.05	-4.86	0.12	0.00	11.02
7,000.00	0.58	183.69	6,999.45	3.20	19.73	-3.86	0.29	-0.07	-26.88
7,100.00	0.60	105.76	7,099.45	2.55	20.20	-3.23	0.74	0.02	-77.93
7,200.00	0.57	231.94	7,199.45	2.10	20.31	-2.78	1.04	-0.03	126.18
7,300.00	0.53	77.13	7,299.44	1.90	20.37	-2.58	1.07	-0.04	-154.81
7,400.00	0.43	341.30	7,399.44	2.35	20.70	-3.05	0.72	-0.10	-95.83
7,500.00	0.64	88.15	7,499.44	2.73	21.14	-3.44	0.87	0.21	106.85
7,600.00	0.69	198.13	7,599.43	2.17	21.51	-2.90	1.09	0.05	109.98
7,700.00	0.73	41.77	7,699.43	2.08	21.75	-2.81	1.39	0.04	-156.36
7,800.00	0.74	173.08	7,799.43	1.91	22.25	-2.66	1.34	0.01	131.31
7,900.00	0.73	198.48	7,899.42	0.67	22.13	-1.41	0.32	-0.01	25.40
8,000.00	0.62	225.72	7,999.41	-0.32	21.54	-0.41	0.34	-0.11	27.24
8,100.00	0.65	231.38	8,099.41	-1.05	20.71	0.35	0.07	0.03	5.66
8,200.00	0.68	343.96	8,199.40	-0.83	20.10	0.15	1.11	0.03	112.58
8,300.00	0.58	275.52	8,299.40	-0.21	19.43	-0.44	0.71	-0.10	-68.44
8,400.00	0.68	271.71	8,399.39	-0.15	18.33	-0.47	0.11	0.10	-3.81
8,500.00	0.59	91.70	8,499.39	-0.14	18.26	-0.47	1.27	-0.09	179.99
8,600.00	0.48	345.35	8,599.39	0.25	18.66	-0.87	0.86	-0.11	-106.35
8,700.00	0.68	4.87	8,699.38	1.24	18.61	-1.87	0.28	0.20	19.52
8,800.00	2.07	349.73	8,799.35	3.61	18.34	-4.23	1.42	1.39	-15.14
8,900.00	1.99	16.60	8,899.29	7.05	18.51	-7.67	0.95	-0.08	26.87
9,000.00	1.10	76.83	8,999.26	8.93	19.94	-9.60	1.73	-0.89	60.23
9,100.00	0.24	206.59	9,099.25	8.97	20.78	-9.66	1.27	-0.86	129.76
9,200.00	0.36	234.06	9,199.25	8.59	20.43	-9.28	0.18	0.12	27.47
9,300.00	0.57	234.10	9,299.25	8.12	19.78	-8.78	0.21	0.21	0.04
9,400.00	0.56	284.50	9,399.25	7.95	18.90	-8.58	0.48	-0.01	50.40
9,500.00	0.65	157.49	9,499.24	7.55	18.65	-8.17	1.08	0.09	-127.01



TDS
Survey Report



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Site:	Lea Unit #44H	MD Reference:	KB @ 3690.00usft (McVay 4)
Well:	Lea Unit #44H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
9,600.00	0.71	283.57	9,599.24	7.17	18.26	-7.78	1.21	0.06	126.08
9,700.00	0.81	207.13	9,699.23	6.69	17.34	-7.27	0.94	0.10	-76.44
9,800.00	0.77	58.66	9,799.23	6.41	17.59	-6.99	1.52	-0.04	-148.47
9,900.00	0.67	52.64	9,899.22	7.11	18.63	-7.73	0.13	-0.10	-6.02
10,000.00	0.64	248.06	9,999.22	7.26	18.57	-7.88	1.30	-0.03	-164.58
10,100.00	0.28	193.16	10,099.22	6.81	18.00	-7.41	0.53	-0.36	-54.90
10,255.00	0.44	203.70	10,254.21	5.90	17.67	-6.49	0.11	0.10	6.80
TIE-IN to RTX Gyro									
10,268.00	1.80	205.50	10,267.21	5.67	17.57	-6.25	10.46	10.46	13.85
10,299.00	3.60	202.60	10,298.17	4.33	16.98	-4.90	5.82	5.81	-9.35
10,331.00	5.80	192.80	10,330.07	1.82	16.24	-2.37	7.29	6.88	-30.63
10,362.00	7.50	188.00	10,360.86	-1.71	15.61	1.18	5.76	5.48	-15.48
10,393.00	9.90	184.60	10,391.50	-6.37	15.11	5.86	7.91	7.74	-10.97
10,425.00	11.90	187.40	10,422.92	-12.38	14.47	11.89	6.46	6.25	8.75
10,456.00	14.80	190.60	10,453.08	-19.45	13.33	18.99	9.65	9.35	10.32
10,488.00	18.10	195.30	10,483.77	-28.26	11.26	27.87	11.11	10.31	14.69
10,519.00	20.90	197.30	10,512.98	-38.19	8.35	37.88	9.28	9.03	6.45
10,550.00	23.50	198.50	10,541.68	-49.33	4.74	49.14	8.51	8.39	3.87
10,597.00	28.60	199.70	10,583.90	-68.82	-2.03	68.85	10.91	10.85	2.55
10,645.00	33.50	198.00	10,625.01	-92.25	-10.00	92.53	10.37	10.21	-3.54
10,692.00	39.00	195.10	10,662.90	-118.89	-17.87	119.42	12.25	11.70	-6.17
10,739.00	44.20	193.80	10,698.03	-149.10	-25.63	149.87	11.21	11.06	-2.77
10,786.00	49.10	191.80	10,730.29	-182.42	-33.18	183.43	10.87	10.43	-4.26
10,833.00	52.50	192.80	10,759.99	-217.99	-40.94	219.25	7.42	7.23	2.13
10,864.00	55.30	194.30	10,778.25	-242.34	-46.82	243.78	9.84	9.03	4.84
10,896.00	57.30	195.60	10,796.01	-268.06	-53.69	269.71	7.11	6.25	4.06
10,926.00	59.70	196.00	10,811.68	-292.67	-60.65	294.55	8.08	8.00	1.33
10,958.00	62.40	196.50	10,827.17	-319.55	-68.49	321.67	8.55	8.44	1.56
10,990.00	65.70	196.10	10,841.17	-347.16	-76.56	349.54	10.37	10.31	-1.25
11,021.00	68.70	196.80	10,853.18	-374.57	-84.66	377.20	9.90	9.68	2.26
11,053.00	72.30	196.80	10,863.86	-403.44	-93.37	406.35	11.25	11.25	0.00
11,087.00	75.70	197.20	10,873.23	-434.69	-102.93	437.91	10.06	10.00	1.18
11,118.00	78.20	197.30	10,880.23	-463.53	-111.88	467.03	8.07	8.06	0.32
11,149.00	79.60	196.80	10,886.20	-492.61	-120.80	496.40	4.79	4.52	-1.61
11,196.00	79.90	196.80	10,894.56	-536.88	-134.17	541.10	0.64	0.64	0.00
11,244.00	81.70	195.20	10,902.24	-582.43	-147.23	587.06	4.99	3.75	-3.33
11,291.00	82.10	194.70	10,908.86	-627.38	-159.23	632.39	1.35	0.85	-1.06
11,338.00	84.40	193.80	10,914.39	-672.62	-170.72	677.99	5.25	4.89	-1.91
11,385.00	85.00	194.10	10,918.73	-718.04	-182.00	723.76	1.43	1.28	0.64
11,432.00	86.70	191.40	10,922.13	-763.75	-192.34	769.80	6.78	3.62	-5.74
11,526.00	88.70	188.50	10,925.90	-856.25	-208.57	862.79	3.75	2.13	-3.09
11,620.00	88.70	185.90	10,928.03	-949.48	-220.35	956.36	2.77	0.00	-2.77
11,714.00	88.40	182.80	10,930.41	-1,043.16	-227.47	1,050.23	3.31	-0.32	-3.30
11,808.00	90.00	180.20	10,931.73	-1,137.11	-229.93	1,144.21	3.25	1.70	-2.77



TDS
Survey Report



Company:	Legacy Reserves	Local Co-ordinate Reference:	Well Lea Unit #44H
Project:	Lea County, NM (NAD-27 2015)	TVD Reference:	KB @ 3690.00usft (McVay 4)
Site:	Lea Unit #44H	MD Reference:	KB @ 3690.00usft (McVay 4)
Well:	Lea Unit #44H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
11,903.00	90.80	180.50	10,931.06	-1,232.11	-230.51	1,239.17	0.90	0.84	0.32
11,997.00	91.80	181.50	10,928.93	-1,326.07	-232.15	1,333.13	1.50	1.06	1.06
12,091.00	91.30	181.50	10,926.39	-1,420.00	-234.61	1,427.10	0.53	-0.53	0.00
12,185.00	91.50	180.20	10,924.09	-1,513.96	-236.01	1,521.05	1.40	0.21	-1.38
12,279.00	92.00	178.20	10,921.22	-1,607.90	-234.69	1,614.89	2.19	0.53	-2.13
12,374.00	91.00	177.90	10,918.73	-1,702.81	-231.46	1,709.64	1.10	-1.05	-0.32
12,468.00	92.40	178.60	10,915.94	-1,796.72	-228.59	1,803.40	1.67	1.49	0.74
12,562.00	90.50	178.60	10,913.57	-1,890.66	-226.30	1,897.21	2.02	-2.02	0.00
12,656.00	91.60	179.40	10,911.84	-1,984.63	-224.66	1,991.07	1.45	1.17	0.85
12,750.00	88.60	178.50	10,911.68	-2,078.60	-222.93	2,084.93	3.33	-3.19	-0.96
12,844.00	89.00	178.10	10,913.65	-2,172.54	-220.15	2,178.72	0.60	0.43	-0.43
12,938.00	90.30	177.90	10,914.22	-2,266.48	-216.87	2,272.50	1.40	1.38	-0.21
13,033.00	90.80	178.10	10,913.31	-2,361.42	-213.55	2,367.27	0.57	0.53	0.21
13,127.00	91.50	178.40	10,911.42	-2,455.35	-210.68	2,461.05	0.81	0.74	0.32
13,221.00	89.10	178.20	10,910.93	-2,549.30	-207.89	2,554.86	2.56	-2.55	-0.21
13,315.00	89.50	178.60	10,912.08	-2,643.26	-205.27	2,648.67	0.60	0.43	0.43
13,409.00	90.10	178.90	10,912.41	-2,737.24	-203.22	2,742.53	0.71	0.64	0.32
13,503.00	90.30	179.20	10,912.08	-2,831.22	-201.66	2,836.41	0.38	0.21	0.32
13,598.00	90.20	179.00	10,911.67	-2,926.21	-200.17	2,931.29	0.24	-0.11	-0.21
13,692.00	90.10	178.60	10,911.42	-3,020.19	-198.20	3,025.15	0.44	-0.11	-0.43
13,786.00	89.90	178.00	10,911.42	-3,114.15	-195.41	3,118.96	0.67	-0.21	-0.64
13,880.00	89.90	180.10	10,911.58	-3,208.13	-193.85	3,212.84	2.23	0.00	2.23
13,974.00	90.60	180.40	10,911.17	-3,302.13	-194.26	3,306.79	0.81	0.74	0.32
14,069.00	91.20	180.50	10,909.68	-3,397.11	-195.01	3,401.75	0.64	0.63	0.11
14,163.00	90.00	180.80	10,908.70	-3,491.10	-196.07	3,495.72	1.32	-1.28	0.32
14,257.00	90.70	180.70	10,908.12	-3,585.09	-197.30	3,589.70	0.75	0.74	-0.11
14,351.00	88.60	180.70	10,908.70	-3,679.07	-198.45	3,683.67	2.23	-2.23	0.00
14,445.00	90.10	181.20	10,909.76	-3,773.05	-200.01	3,777.65	1.68	1.60	0.53
14,539.00	89.00	180.40	10,910.50	-3,867.04	-201.32	3,871.62	1.45	-1.17	-0.85
14,634.00	89.90	180.50	10,911.41	-3,962.03	-202.07	3,966.59	0.95	0.95	0.11
14,728.00	88.50	180.30	10,912.73	-4,056.01	-202.73	4,060.54	1.50	-1.49	-0.21
14,822.00	89.20	180.50	10,914.61	-4,149.99	-203.38	4,154.49	0.77	0.74	0.21
14,916.00	90.40	180.90	10,914.94	-4,243.98	-204.53	4,248.46	1.35	1.28	0.43
15,010.00	88.90	179.70	10,915.51	-4,337.98	-205.02	4,342.42	2.04	-1.60	-1.28
15,105.00	89.30	179.70	10,917.01	-4,432.96	-204.53	4,437.34	0.42	0.42	0.00
15,199.00	90.00	180.10	10,917.58	-4,526.96	-204.36	4,531.27	0.86	0.74	0.43
15,293.00	90.80	180.30	10,916.92	-4,620.96	-204.69	4,625.23	0.88	0.85	0.21
15,387.00	90.20	178.70	10,916.10	-4,714.95	-203.87	4,719.14	1.82	-0.64	-1.70
15,482.00	90.90	178.80	10,915.19	-4,809.92	-201.80	4,813.99	0.74	0.74	0.11
15,576.00	92.00	179.30	10,912.81	-4,903.87	-200.24	4,907.83	1.29	1.17	0.53
15,670.00	89.80	178.80	10,911.34	-4,997.84	-198.68	5,001.70	2.40	-2.34	-0.53
15,764.00	87.60	179.30	10,913.47	-5,091.80	-197.12	5,095.55	2.40	-2.34	0.53
15,859.00	88.20	179.60	10,916.95	-5,186.73	-196.21	5,190.40	0.71	0.63	0.32



TDS
Survey Report



Company: Legacy Reserves
Project: Lea County, NM (NAD-27 2015)
Site: Lea Unit #44H
Well: Lea Unit #44H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Lea Unit #44H
TVD Reference: KB @ 3690.00usft (McVay 4)
MD Reference: KB @ 3690.00usft (McVay 4)
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)
15,953.00	89.60	180.20	10,918.76	-5,280.71	-196.05	5,284.32	1.62	1.49	0.64
16,047.00	88.60	180.30	10,920.23	-5,374.70	-196.46	5,378.26	1.07	-1.06	0.11
16,141.00	89.70	180.60	10,921.63	-5,468.68	-197.20	5,472.22	1.21	1.17	0.32
16,194.00	90.30	180.80	10,921.63	-5,521.68	-197.84	5,525.21	1.19	1.13	0.38
Final MWD Survey									
16,252.00	90.30	180.80	10,921.32	-5,579.67	-198.65	5,583.20	0.00	0.00	0.00
Projection to Bit/TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,255.00	10,254.21	5.90	17.67	TIE-IN to RTX Gyro
16,194.00	10,921.63	-5,521.68	-197.84	Final MWD Survey
16,252.00	10,921.32	-5,579.67	-198.65	Projection to Bit/TD

Checked By: _____ Approved By: _____ Date: _____