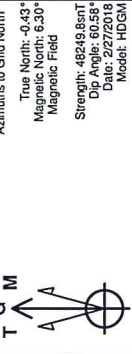


Co-ordinate (N/E) Reference: Well Lea Unit #102H, Grid North
 Vertical (TVD) Reference: RKB @ 3693.0usft
 Measured Depth Reference: RKB @ 3693.0usft
 Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD83)
 Site: Lea
 Well: Lea Unit #102H
 Wellbore: Original Wellbore
 Design: Plan 1

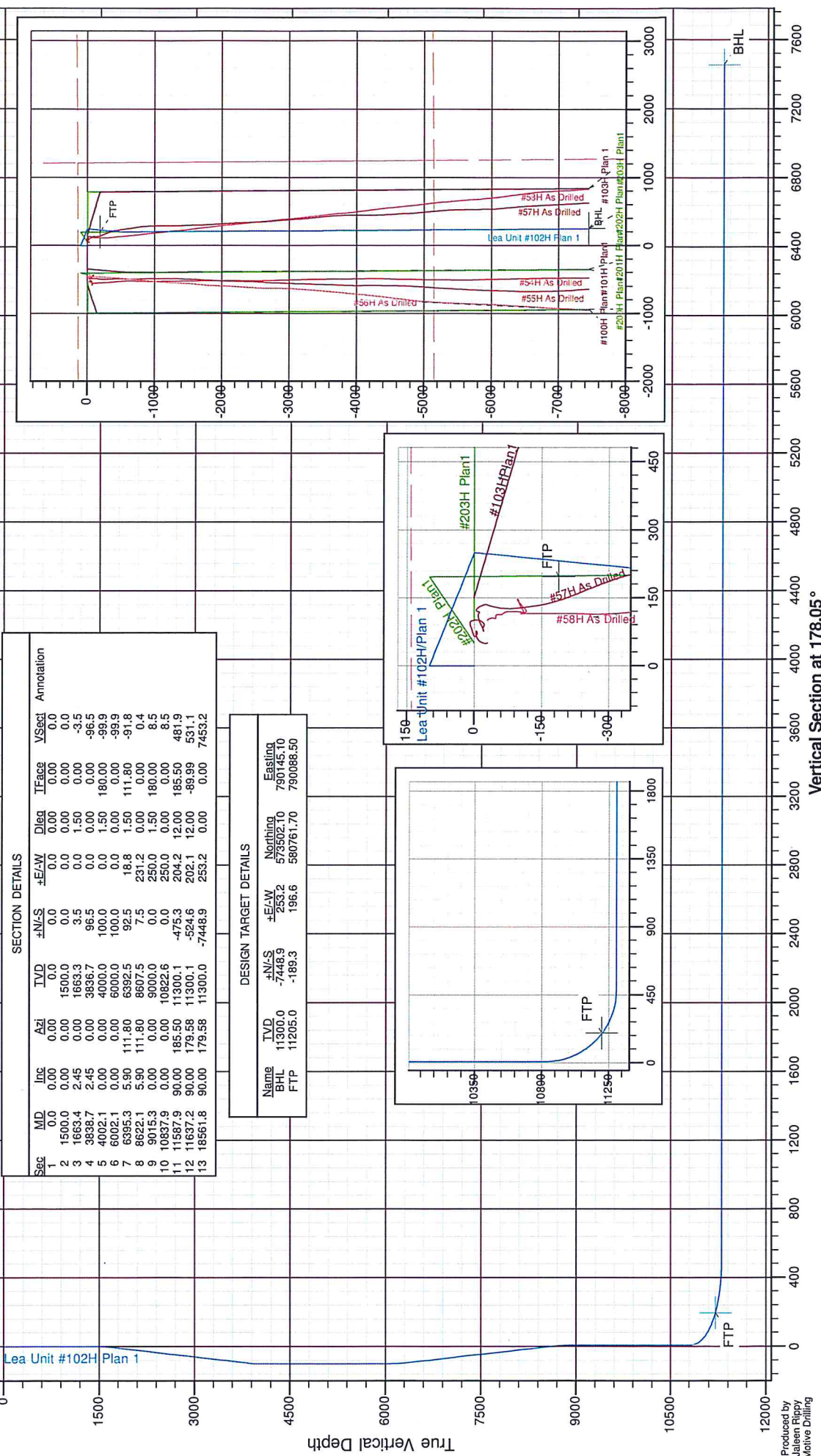


WELL DETAILS: Lea Unit #102H			
+N/-S	+E/-W	Northing	Ground Level:
0.0	0.0	580951.00	3666.0
		Easting	Latitude
		789891.90	32° 35' 40.182 N
			Longitude
			103° 31' 34.588 W

Sec	MD	Intc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1663.4	2.45	0.00	1663.3	3.5	0.0	0.00	0.00	-3.5	
4	3838.7	2.45	0.00	3838.7	96.5	0.0	0.00	0.00	-96.5	
5	4002.1	0.00	0.00	4000.0	100.0	0.0	1.50	180.00	-99.9	
6	6002.1	0.00	0.00	6000.0	100.0	0.0	0.00	0.00	-99.9	
7	6395.3	5.90	111.80	6392.5	92.5	18.8	1.50	111.80	-91.8	
8	8622.1	5.90	111.80	8607.5	7.5	231.2	0.00	0.00	0.4	
9	9015.3	0.00	0.00	9000.0	0.0	250.0	1.50	180.00	8.5	
10	10837.9	0.00	0.00	10822.6	0.0	250.0	0.00	0.00	8.5	
11	11587.9	90.00	185.50	11300.1	-475.3	204.2	12.00	185.50	481.9	
12	11637.2	90.00	179.58	11300.1	-524.6	202.1	12.00	-89.99	531.1	
13	18561.8	90.00	179.58	11300.0	-7448.9	253.2	0.00	0.00	7453.2	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
BHL	11300.0	-7448.9	253.2	573502.10	790145.10
FTP	11205.0	-189.3	196.6	580761.70	790088.50





Legacy Reserves

Lea County, NM (NAD83)

Lea

Lea Unit #102H

Original Wellbore

Plan: Plan 1

Standard Planning Report

20 March, 2018



Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM (NAD83)
Site: Lea
Well: Lea Unit #102H
Wellbore: Original Wellbore
Design: Plan 1

Local Co-ordinate Reference: Well Lea Unit #102H
TVD Reference: RKB @ 3693.0usft
MD Reference: RKB @ 3693.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

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

Well	Lea Unit #102H					
Well Position	+N/-S	13,364.0 usft	Northing:	580,951.00 usft	Latitude:	32° 35' 40.182 N
	+E/-W	-7,364.2 usft	Easting:	789,891.90 usft	Longitude:	103° 31' 34.588 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,693.0 usft	Ground Level:	3,666.0 usft

Wellbore	Original Wellbore					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	2/27/2018	6.73	60.58	48,250	

Design	Plan 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	178.05	

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,663.4	2.45	0.00	1,663.3	3.5	0.0	1.50	1.50	0.00	0.00	
3,838.7	2.45	0.00	3,836.7	96.5	0.0	0.00	0.00	0.00	0.00	
4,002.1	0.00	0.00	4,000.0	100.0	0.0	1.50	-1.50	0.00	180.00	
6,002.1	0.00	0.00	6,000.0	100.0	0.0	0.00	0.00	0.00	0.00	
6,395.3	5.90	111.80	6,392.5	92.5	18.8	1.50	1.50	0.00	111.80	
8,622.1	5.90	111.80	8,607.5	7.5	231.2	0.00	0.00	0.00	0.00	
9,015.3	0.00	0.00	9,000.0	0.0	250.0	1.50	-1.50	0.00	180.00	
10,837.9	0.00	0.00	10,822.6	0.0	250.0	0.00	0.00	0.00	0.00	
11,587.9	90.00	185.50	11,300.1	-475.3	204.2	12.00	12.00	0.00	185.50	
11,637.2	90.00	179.58	11,300.1	-524.6	202.1	12.00	0.00	-12.00	-89.99	
18,561.8	90.00	179.58	11,300.0	-7,448.9	253.2	0.00	0.00	0.00	0.00	BHL-102H

Database: EDM 5000.1 Single User Db
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MD Reference: RKB @ 3693.0usft
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
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	1.50	0.00	1,600.0	1.3	0.0	-1.3	1.50	1.50	0.00
1,663.4	2.45	0.00	1,663.3	3.5	0.0	-3.5	1.50	1.50	0.00
1,700.0	2.45	0.00	1,699.9	5.1	0.0	-5.1	0.00	0.00	0.00
1,800.0	2.45	0.00	1,799.8	9.3	0.0	-9.3	0.00	0.00	0.00
1,900.0	2.45	0.00	1,899.7	13.6	0.0	-13.6	0.00	0.00	0.00
2,000.0	2.45	0.00	1,999.6	17.9	0.0	-17.9	0.00	0.00	0.00
2,100.0	2.45	0.00	2,099.6	22.2	0.0	-22.1	0.00	0.00	0.00
2,200.0	2.45	0.00	2,199.5	26.4	0.0	-26.4	0.00	0.00	0.00
2,300.0	2.45	0.00	2,299.4	30.7	0.0	-30.7	0.00	0.00	0.00
2,400.0	2.45	0.00	2,399.3	35.0	0.0	-35.0	0.00	0.00	0.00
2,500.0	2.45	0.00	2,499.2	39.3	0.0	-39.2	0.00	0.00	0.00
2,600.0	2.45	0.00	2,599.1	43.5	0.0	-43.5	0.00	0.00	0.00
2,700.0	2.45	0.00	2,699.0	47.8	0.0	-47.8	0.00	0.00	0.00
2,800.0	2.45	0.00	2,798.9	52.1	0.0	-52.1	0.00	0.00	0.00
2,900.0	2.45	0.00	2,898.8	56.4	0.0	-56.3	0.00	0.00	0.00
3,000.0	2.45	0.00	2,998.7	60.6	0.0	-60.6	0.00	0.00	0.00
3,100.0	2.45	0.00	3,098.6	64.9	0.0	-64.9	0.00	0.00	0.00
3,200.0	2.45	0.00	3,198.5	69.2	0.0	-69.2	0.00	0.00	0.00
3,300.0	2.45	0.00	3,298.5	73.5	0.0	-73.4	0.00	0.00	0.00
3,400.0	2.45	0.00	3,398.4	77.7	0.0	-77.7	0.00	0.00	0.00
3,500.0	2.45	0.00	3,498.3	82.0	0.0	-82.0	0.00	0.00	0.00
3,600.0	2.45	0.00	3,598.2	86.3	0.0	-86.2	0.00	0.00	0.00
3,700.0	2.45	0.00	3,698.1	90.6	0.0	-90.5	0.00	0.00	0.00
3,800.0	2.45	0.00	3,798.0	94.9	0.0	-94.8	0.00	0.00	0.00
3,838.7	2.45	0.00	3,836.7	96.5	0.0	-96.5	0.00	0.00	0.00
3,900.0	1.53	0.00	3,897.9	98.6	0.0	-98.6	1.50	-1.50	0.00
4,002.1	0.00	0.00	4,000.0	100.0	0.0	-99.9	1.50	-1.50	0.00
4,100.0	0.00	0.00	4,097.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,200.0	0.00	0.00	4,197.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,300.0	0.00	0.00	4,297.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,400.0	0.00	0.00	4,397.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,500.0	0.00	0.00	4,497.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,597.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,700.0	0.00	0.00	4,697.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,797.9	100.0	0.0	-99.9	0.00	0.00	0.00
4,900.0	0.00	0.00	4,897.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,997.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,100.0	0.00	0.00	5,097.9	100.0	0.0	-99.9	0.00	0.00	0.00

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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	0.00	0.00	5,197.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,297.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,397.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,497.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,597.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,697.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,797.9	100.0	0.0	-99.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,897.9	100.0	0.0	-99.9	0.00	0.00	0.00
6,002.1	0.00	0.00	6,000.0	100.0	0.0	-99.9	0.00	0.00	0.00
6,100.0	1.47	111.80	6,097.9	99.5	1.2	-99.4	1.50	1.50	0.00
6,200.0	2.97	111.80	6,197.8	98.1	4.8	-97.9	1.50	1.50	0.00
6,300.0	4.47	111.80	6,297.6	95.7	10.8	-95.3	1.50	1.50	0.00
6,395.3	5.90	111.80	6,392.5	92.5	18.8	-91.8	1.50	1.50	0.00
6,400.0	5.90	111.80	6,397.2	92.3	19.2	-91.6	0.00	0.00	0.00
6,500.0	5.90	111.80	6,496.7	88.5	28.8	-87.5	0.00	0.00	0.00
6,600.0	5.90	111.80	6,596.1	84.7	38.3	-83.3	0.00	0.00	0.00
6,700.0	5.90	111.80	6,695.6	80.9	47.8	-79.2	0.00	0.00	0.00
6,800.0	5.90	111.80	6,795.1	77.0	57.4	-75.1	0.00	0.00	0.00
6,900.0	5.90	111.80	6,894.5	73.2	66.9	-70.9	0.00	0.00	0.00
7,000.0	5.90	111.80	6,994.0	69.4	76.5	-66.8	0.00	0.00	0.00
7,100.0	5.90	111.80	7,093.5	65.6	86.0	-62.6	0.00	0.00	0.00
7,200.0	5.90	111.80	7,193.0	61.8	95.5	-58.5	0.00	0.00	0.00
7,300.0	5.90	111.80	7,292.4	58.0	105.1	-54.4	0.00	0.00	0.00
7,400.0	5.90	111.80	7,391.9	54.1	114.6	-50.2	0.00	0.00	0.00
7,500.0	5.90	111.80	7,491.4	50.3	124.2	-46.1	0.00	0.00	0.00
7,600.0	5.90	111.80	7,590.8	46.5	133.7	-41.9	0.00	0.00	0.00
7,700.0	5.90	111.80	7,690.3	42.7	143.3	-37.8	0.00	0.00	0.00
7,800.0	5.90	111.80	7,789.8	38.9	152.8	-33.7	0.00	0.00	0.00
7,900.0	5.90	111.80	7,889.3	35.1	162.3	-29.5	0.00	0.00	0.00
8,000.0	5.90	111.80	7,988.7	31.2	171.9	-25.4	0.00	0.00	0.00
8,100.0	5.90	111.80	8,088.2	27.4	181.4	-21.3	0.00	0.00	0.00
8,200.0	5.90	111.80	8,187.7	23.6	191.0	-17.1	0.00	0.00	0.00
8,300.0	5.90	111.80	8,287.1	19.8	200.5	-13.0	0.00	0.00	0.00
8,400.0	5.90	111.80	8,386.6	16.0	210.0	-8.8	0.00	0.00	0.00
8,500.0	5.90	111.80	8,486.1	12.2	219.6	-4.7	0.00	0.00	0.00
8,600.0	5.90	111.80	8,585.5	8.4	229.1	-0.6	0.00	0.00	0.00
8,622.1	5.90	111.80	8,607.5	7.5	231.2	0.4	0.00	0.00	0.00
8,700.0	4.73	111.80	8,685.1	4.8	237.9	3.3	1.50	-1.50	0.00
8,800.0	3.23	111.80	8,784.8	2.3	244.4	6.1	1.50	-1.50	0.00
8,900.0	1.73	111.80	8,884.8	0.6	248.4	7.8	1.50	-1.50	0.00
9,000.0	0.23	111.80	8,984.7	0.0	250.0	8.5	1.50	-1.50	0.00
9,015.3	0.00	0.00	9,000.0	0.0	250.0	8.5	1.50	-1.50	0.00
9,100.0	0.00	0.00	9,084.7	0.0	250.0	8.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,184.7	0.0	250.0	8.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,284.7	0.0	250.0	8.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,384.7	0.0	250.0	8.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,484.7	0.0	250.0	8.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,584.7	0.0	250.0	8.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,684.7	0.0	250.0	8.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,784.7	0.0	250.0	8.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,884.7	0.0	250.0	8.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,984.7	0.0	250.0	8.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,084.7	0.0	250.0	8.5	0.00	0.00	0.00

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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)
10,200.0	0.00	0.00	10,184.7	0.0	250.0	8.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,284.7	0.0	250.0	8.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,384.7	0.0	250.0	8.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,484.7	0.0	250.0	8.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,584.7	0.0	250.0	8.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,684.7	0.0	250.0	8.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,784.7	0.0	250.0	8.5	0.00	0.00	0.00
10,837.9	0.00	0.00	10,822.6	0.0	250.0	8.5	0.00	0.00	0.00
10,850.0	1.46	185.50	10,834.7	-0.2	250.0	8.6	12.00	12.00	0.00
10,875.0	4.46	185.50	10,859.7	-1.4	249.9	9.9	12.00	12.00	0.00
10,900.0	7.46	185.50	10,884.6	-4.0	249.6	12.5	12.00	12.00	0.00
10,925.0	10.46	185.50	10,909.3	-7.9	249.2	16.4	12.00	12.00	0.00
10,950.0	13.46	185.50	10,933.7	-13.0	248.7	21.5	12.00	12.00	0.00
10,975.0	16.46	185.50	10,957.9	-19.5	248.1	27.9	12.00	12.00	0.00
11,000.0	19.46	185.50	10,981.6	-27.1	247.4	35.5	12.00	12.00	0.00
11,025.0	22.46	185.50	11,005.0	-36.0	246.5	44.4	12.00	12.00	0.00
11,050.0	25.46	185.50	11,027.8	-46.1	245.6	54.5	12.00	12.00	0.00
11,075.0	28.46	185.50	11,050.1	-57.4	244.5	65.7	12.00	12.00	0.00
11,100.0	31.46	185.50	11,071.8	-69.8	243.3	78.1	12.00	12.00	0.00
11,125.0	34.46	185.50	11,092.7	-83.4	242.0	91.6	12.00	12.00	0.00
11,150.0	37.46	185.50	11,113.0	-98.0	240.6	106.1	12.00	12.00	0.00
11,175.0	40.46	185.50	11,132.4	-113.6	239.1	121.7	12.00	12.00	0.00
11,200.0	43.46	185.50	11,151.0	-130.3	237.5	138.3	12.00	12.00	0.00
11,225.0	46.46	185.50	11,168.7	-147.9	235.8	155.8	12.00	12.00	0.00
11,250.0	49.46	185.50	11,185.4	-166.3	234.0	174.2	12.00	12.00	0.00
11,275.0	52.46	185.50	11,201.2	-185.7	232.1	193.4	12.00	12.00	0.00
11,300.0	55.46	185.50	11,215.9	-205.8	230.2	213.5	12.00	12.00	0.00
11,325.0	58.46	185.50	11,229.5	-226.6	228.2	234.3	12.00	12.00	0.00
11,350.0	61.46	185.50	11,242.0	-248.2	226.1	255.7	12.00	12.00	0.00
11,375.0	64.46	185.50	11,253.4	-270.3	224.0	277.8	12.00	12.00	0.00
11,400.0	67.46	185.50	11,263.6	-293.1	221.8	300.4	12.00	12.00	0.00
11,425.0	70.46	185.50	11,272.6	-316.3	219.5	323.6	12.00	12.00	0.00
11,450.0	73.46	185.50	11,280.3	-339.9	217.3	347.1	12.00	12.00	0.00
11,475.0	76.46	185.50	11,286.8	-364.0	215.0	371.1	12.00	12.00	0.00
11,500.0	79.46	185.50	11,292.0	-388.3	212.6	395.3	12.00	12.00	0.00
11,525.0	82.46	185.50	11,295.9	-412.9	210.2	419.8	12.00	12.00	0.00
11,550.0	85.46	185.50	11,298.6	-437.6	207.9	444.4	12.00	12.00	0.00
11,575.0	88.46	185.50	11,299.9	-462.5	205.5	469.2	12.00	12.00	0.00
11,587.9	90.00	185.50	11,300.1	-475.3	204.2	481.9	12.00	12.00	0.00
11,600.0	90.00	184.04	11,300.1	-487.4	203.2	494.0	12.00	0.00	-12.00
11,625.0	90.00	181.04	11,300.1	-512.3	202.1	518.9	12.00	0.00	-12.00
11,637.2	90.00	179.58	11,300.1	-524.6	202.1	531.1	12.00	0.00	-12.00
11,700.0	90.00	179.58	11,300.1	-587.3	202.5	593.9	0.00	0.00	0.00
11,800.0	90.00	179.58	11,300.1	-687.3	203.3	693.8	0.00	0.00	0.00
11,900.0	90.00	179.58	11,300.1	-787.3	204.0	793.8	0.00	0.00	0.00
12,000.0	90.00	179.58	11,300.1	-887.3	204.7	893.8	0.00	0.00	0.00
12,100.0	90.00	179.58	11,300.1	-987.3	205.5	993.7	0.00	0.00	0.00
12,200.0	90.00	179.58	11,300.1	-1,087.3	206.2	1,093.7	0.00	0.00	0.00
12,300.0	90.00	179.58	11,300.1	-1,187.3	206.9	1,193.7	0.00	0.00	0.00
12,400.0	90.00	179.58	11,300.1	-1,287.3	207.7	1,293.6	0.00	0.00	0.00
12,500.0	90.00	179.58	11,300.1	-1,387.3	208.4	1,393.6	0.00	0.00	0.00
12,600.0	90.00	179.58	11,300.1	-1,487.3	209.2	1,493.6	0.00	0.00	0.00
12,700.0	90.00	179.58	11,300.1	-1,587.3	209.9	1,593.5	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM (NAD83)
Site: Lea
Well: Lea Unit #102H
Wellbore: Original Wellbore
Design: Plan 1

Local Co-ordinate Reference: Well Lea Unit #102H
TVD Reference: RKB @ 3693.0usft
MD Reference: RKB @ 3693.0usft
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)
12,800.0	90.00	179.58	11,300.0	-1,687.3	210.6	1,693.5	0.00	0.00	0.00
12,900.0	90.00	179.58	11,300.0	-1,787.3	211.4	1,793.4	0.00	0.00	0.00
13,000.0	90.00	179.58	11,300.0	-1,887.3	212.1	1,893.4	0.00	0.00	0.00
13,100.0	90.00	179.58	11,300.0	-1,987.3	212.9	1,993.4	0.00	0.00	0.00
13,200.0	90.00	179.58	11,300.0	-2,087.3	213.6	2,093.3	0.00	0.00	0.00
13,300.0	90.00	179.58	11,300.0	-2,187.3	214.3	2,193.3	0.00	0.00	0.00
13,400.0	90.00	179.58	11,300.0	-2,287.3	215.1	2,293.3	0.00	0.00	0.00
13,500.0	90.00	179.58	11,300.0	-2,387.3	215.8	2,393.2	0.00	0.00	0.00
13,600.0	90.00	179.58	11,300.0	-2,487.3	216.5	2,493.2	0.00	0.00	0.00
13,700.0	90.00	179.58	11,300.0	-2,587.3	217.3	2,593.2	0.00	0.00	0.00
13,800.0	90.00	179.58	11,300.0	-2,687.3	218.0	2,693.1	0.00	0.00	0.00
13,900.0	90.00	179.58	11,300.0	-2,787.3	218.8	2,793.1	0.00	0.00	0.00
14,000.0	90.00	179.58	11,300.0	-2,887.3	219.5	2,893.1	0.00	0.00	0.00
14,100.0	90.00	179.58	11,300.0	-2,987.3	220.2	2,993.0	0.00	0.00	0.00
14,200.0	90.00	179.58	11,300.0	-3,087.3	221.0	3,093.0	0.00	0.00	0.00
14,300.0	90.00	179.58	11,300.0	-3,187.3	221.7	3,193.0	0.00	0.00	0.00
14,400.0	90.00	179.58	11,300.0	-3,287.3	222.5	3,292.9	0.00	0.00	0.00
14,500.0	90.00	179.58	11,300.0	-3,387.3	223.2	3,392.9	0.00	0.00	0.00
14,600.0	90.00	179.58	11,300.0	-3,487.3	223.9	3,492.8	0.00	0.00	0.00
14,700.0	90.00	179.58	11,300.0	-3,587.2	224.7	3,592.8	0.00	0.00	0.00
14,800.0	90.00	179.58	11,300.0	-3,687.2	225.4	3,692.8	0.00	0.00	0.00
14,900.0	90.00	179.58	11,300.0	-3,787.2	226.2	3,792.7	0.00	0.00	0.00
15,000.0	90.00	179.58	11,300.0	-3,887.2	226.9	3,892.7	0.00	0.00	0.00
15,100.0	90.00	179.58	11,300.0	-3,987.2	227.6	3,992.7	0.00	0.00	0.00
15,200.0	90.00	179.58	11,300.0	-4,087.2	228.4	4,092.6	0.00	0.00	0.00
15,300.0	90.00	179.58	11,300.0	-4,187.2	229.1	4,192.6	0.00	0.00	0.00
15,400.0	90.00	179.58	11,300.0	-4,287.2	229.8	4,292.6	0.00	0.00	0.00
15,500.0	90.00	179.58	11,300.0	-4,387.2	230.6	4,392.5	0.00	0.00	0.00
15,600.0	90.00	179.58	11,300.0	-4,487.2	231.3	4,492.5	0.00	0.00	0.00
15,700.0	90.00	179.58	11,300.0	-4,587.2	232.1	4,592.5	0.00	0.00	0.00
15,800.0	90.00	179.58	11,300.0	-4,687.2	232.8	4,692.4	0.00	0.00	0.00
15,900.0	90.00	179.58	11,300.0	-4,787.2	233.5	4,792.4	0.00	0.00	0.00
16,000.0	90.00	179.58	11,300.0	-4,887.2	234.3	4,892.4	0.00	0.00	0.00
16,100.0	90.00	179.58	11,300.0	-4,987.2	235.0	4,992.3	0.00	0.00	0.00
16,200.0	90.00	179.58	11,300.0	-5,087.2	235.8	5,092.3	0.00	0.00	0.00
16,300.0	90.00	179.58	11,300.0	-5,187.2	236.5	5,192.2	0.00	0.00	0.00
16,400.0	90.00	179.58	11,300.0	-5,287.2	237.2	5,292.2	0.00	0.00	0.00
16,500.0	90.00	179.58	11,300.0	-5,387.2	238.0	5,392.2	0.00	0.00	0.00
16,600.0	90.00	179.58	11,300.0	-5,487.2	238.7	5,492.1	0.00	0.00	0.00
16,700.0	90.00	179.58	11,300.0	-5,587.2	239.4	5,592.1	0.00	0.00	0.00
16,800.0	90.00	179.58	11,300.0	-5,687.2	240.2	5,692.1	0.00	0.00	0.00
16,900.0	90.00	179.58	11,300.0	-5,787.2	240.9	5,792.0	0.00	0.00	0.00
17,000.0	90.00	179.58	11,300.0	-5,887.2	241.7	5,892.0	0.00	0.00	0.00
17,100.0	90.00	179.58	11,300.0	-5,987.2	242.4	5,992.0	0.00	0.00	0.00
17,200.0	90.00	179.58	11,300.0	-6,087.2	243.1	6,091.9	0.00	0.00	0.00
17,300.0	90.00	179.58	11,300.0	-6,187.2	243.9	6,191.9	0.00	0.00	0.00
17,400.0	90.00	179.58	11,300.0	-6,287.2	244.6	6,291.9	0.00	0.00	0.00
17,500.0	90.00	179.58	11,300.0	-6,387.2	245.4	6,391.8	0.00	0.00	0.00
17,600.0	90.00	179.58	11,300.0	-6,487.2	246.1	6,491.8	0.00	0.00	0.00
17,700.0	90.00	179.58	11,300.0	-6,587.2	246.8	6,591.7	0.00	0.00	0.00
17,800.0	90.00	179.58	11,300.0	-6,687.2	247.6	6,691.7	0.00	0.00	0.00
17,900.0	90.00	179.58	11,300.0	-6,787.2	248.3	6,791.7	0.00	0.00	0.00
18,000.0	90.00	179.58	11,300.0	-6,887.2	249.1	6,891.6	0.00	0.00	0.00
18,100.0	90.00	179.58	11,300.0	-6,987.2	249.8	6,991.6	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM (NAD83)
Site: Lea
Well: Lea Unit #102H
Wellbore: Original Wellbore
Design: Plan 1

Local Co-ordinate Reference: Well Lea Unit #102H
TVD Reference: RKB @ 3693.0usft
MD Reference: RKB @ 3693.0usft
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)
18,200.0	90.00	179.58	11,300.0	-7,087.2	250.5	7,091.6	0.00	0.00	0.00
18,300.0	90.00	179.58	11,300.0	-7,187.1	251.3	7,191.5	0.00	0.00	0.00
18,400.0	90.00	179.58	11,300.0	-7,287.1	252.0	7,291.5	0.00	0.00	0.00
18,500.0	90.00	179.58	11,300.0	-7,387.1	252.7	7,391.5	0.00	0.00	0.00
18,561.8	90.00	179.58	11,300.0	-7,448.9	253.2	7,453.2	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP-102H	0.00	0.00	11,205.0	-189.3	196.6	580,761.70	790,088.50	32° 35' 38.294 N	103° 31' 32.307 W
- hit/miss target									
- Shape									
- plan misses target center by 35.0usft at 11282.9usft MD (11206.0 TVD, -192.0 N, 231.5 E)									
- Point									
BHL-102H	0.00	0.00	11,300.0	-7,448.9	253.2	573,502.10	790,145.10	32° 34' 26.459 N	103° 31' 32.290 W
- plan hits target center									
- Point									