

Legacy Reserves

Lea County, NM (NAD83)

Lea

Lea Unit #63H

Original Wellbore

HOBBS OCD
DEC 14 2018
★
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Design: Original Wellbore

Daily Survey Report

04 July, 2018



Company:	Legacy Reserves	Local Co-ordinate Reference:	Well Lea Unit #63H
Project:	Lea County, NM (NAD83)	TVD Reference:	RKB @ 3707.0usft
Site:	Lea	MD Reference:	RKB @ 3707.0usft
Well:	Lea Unit #63H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	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	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 #63H

Well Position	+N/-S	0.0 usft	Northing:	567,603.40 usft	Latitude:	32° 33' 27.410 N
	+E/-W	0.0 usft	Easting:	799,106.10 usft	Longitude:	103° 29' 48.118 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,707.0 usft	Ground Level:	3,689.0 usft

Wellbore Original Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/3/2018	6.72	60.52	48,217

Design Original Wellbore

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	276.70

Survey Program Date 7/4/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
79.0	5,554.0	Gyro (Original Wellbore)	GYRO-MWD	Gyro MWD
5,554.0	18,480.0	As Drilled (Original Wellbore)	MWD+HDGM	OWSG MWD + HDGM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
79.0	0.26	77.46	79.0	-0.2	0.0	0.2	0.33
170.0	0.28	74.27	170.0	-0.6	0.1	0.6	0.03
261.0	0.31	71.42	261.0	-1.0	0.3	1.0	0.04
352.0	0.28	61.00	352.0	-1.4	0.5	1.5	0.07
442.0	0.26	33.47	442.0	-1.7	0.7	1.8	0.14
533.0	0.21	0.94	533.0	-1.7	1.1	1.9	0.15
623.0	0.27	330.11	623.0	-1.6	1.4	1.8	0.16
714.0	0.35	285.23	714.0	-1.2	1.7	1.4	0.27
803.0	0.51	270.62	803.0	-0.5	1.8	0.8	0.22
894.0	0.49	276.89	894.0	0.3	1.8	0.0	0.06

Company: Legacy Reserves
Project: Lea County, NM (NAD83)
Site: Lea
Well: Lea Unit #63H
Wellbore: Original Wellbore
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Local Co-ordinate Reference: Well Lea Unit #63H
TVD Reference: RKB @ 3707.0usft
MD Reference: RKB @ 3707.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 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)
983.0	0.63	272.11	983.0	1.1	1.9	-0.9	0.17
1,078.0	0.80	276.01	1,078.0	2.3	2.0	-2.1	0.19
1,172.0	0.92	272.02	1,172.0	3.7	2.1	-3.5	0.14
1,270.0	0.97	272.10	1,270.0	5.3	2.1	-5.1	0.05
1,364.0	1.19	272.93	1,363.9	7.1	2.2	-6.9	0.23
1,458.0	1.36	268.94	1,457.9	9.2	2.2	-9.0	0.20
1,553.0	1.35	269.82	1,552.9	11.4	2.2	-11.2	0.02
1,647.0	1.14	270.93	1,646.9	13.4	2.2	-13.3	0.22
1,741.0	0.91	271.02	1,740.8	15.1	2.2	-14.9	0.24
1,836.0	0.77	262.97	1,835.8	16.5	2.2	-16.3	0.19
1,930.0	1.34	9.49	1,929.8	17.0	3.2	-16.8	1.83
2,024.0	3.63	14.24	2,023.7	16.6	7.2	-15.9	2.44
2,119.0	4.80	7.32	2,118.5	16.1	14.0	-14.6	1.34
2,213.0	5.47	4.90	2,212.1	16.2	22.4	-13.7	0.75
2,308.0	5.49	5.33	2,306.7	16.5	31.4	-12.9	0.05
2,402.0	5.36	5.66	2,400.2	16.7	40.3	-12.1	0.14
2,496.0	5.84	5.20	2,493.8	16.9	49.4	-11.2	0.51
2,591.0	6.19	4.38	2,588.3	17.2	59.3	-10.4	0.38
2,686.0	6.06	3.98	2,682.7	17.7	69.4	-9.6	0.14
2,780.0	5.87	3.04	2,776.2	18.2	79.2	-9.0	0.23
2,874.0	5.73	2.92	2,869.7	18.8	88.7	-8.5	0.15
2,967.0	5.76	3.65	2,962.3	19.4	98.0	-8.0	0.08
3,061.0	4.89	3.87	3,055.9	19.8	106.7	-7.4	0.93
3,154.0	2.71	357.01	3,148.7	20.4	112.8	-7.3	2.39
3,248.0	1.78	357.73	3,242.6	21.0	116.5	-7.5	0.99
3,341.0	1.59	359.42	3,335.5	21.4	119.2	-7.5	0.21
3,435.0	0.30	0.82	3,429.5	21.6	120.8	-7.5	1.37
3,529.0	0.19	165.24	3,523.5	21.5	120.9	-7.5	0.52
3,623.0	0.09	132.14	3,617.5	21.4	120.7	-7.4	0.13
3,716.0	0.16	28.96	3,710.5	21.3	120.7	-7.3	0.22
3,811.0	0.26	40.76	3,805.5	21.1	121.0	-7.1	0.11
3,904.0	0.32	54.27	3,898.5	20.8	121.3	-6.7	0.10
3,998.0	0.33	45.31	3,992.5	20.5	121.7	-6.3	0.06
4,092.0	0.53	30.99	4,086.5	20.1	122.2	-5.9	0.24
4,186.0	0.27	28.02	4,180.5	19.9	122.8	-5.6	0.28
4,279.0	0.45	202.35	4,273.5	19.9	122.7	-5.6	0.77
4,375.0	0.51	190.45	4,369.5	20.0	121.9	-5.8	0.12
4,467.0	0.53	230.42	4,461.5	20.3	121.2	-6.2	0.39
4,560.0	0.41	264.19	4,554.5	21.0	120.9	-6.9	0.32
4,654.0	0.75	260.39	4,648.5	21.9	120.8	-7.8	0.36
4,748.0	0.28	212.44	4,742.5	22.6	120.5	-8.6	0.64
4,841.0	0.40	247.15	4,835.5	22.9	120.2	-9.0	0.25
4,935.0	0.61	264.87	4,929.5	23.7	120.0	-9.8	0.28
5,029.0	0.58	249.74	5,023.5	24.6	119.8	-10.7	0.17

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Well:	Lea Unit #63H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	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)
5,121.0	0.64	259.89	5,115.5	25.5	119.5	-11.7	0.13
5,214.0	0.34	266.09	5,208.5	26.3	119.4	-12.5	0.33
5,307.0	0.56	278.74	5,301.5	27.0	119.5	-13.2	0.26
5,401.0	0.51	265.73	5,395.5	27.9	119.5	-14.1	0.14
5,495.0	0.30	273.95	5,489.5	28.6	119.5	-14.7	0.23
5,554.0	0.26	273.47	5,548.5	28.9	119.5	-15.0	0.07
5,647.0	0.31	259.15	5,641.5	29.3	119.5	-15.5	0.09
5,741.0	0.41	239.30	5,735.5	29.8	119.2	-16.0	0.17
5,834.0	0.45	236.35	5,828.5	30.4	118.9	-16.6	0.05
5,929.0	0.49	247.83	5,923.5	31.0	118.5	-17.3	0.11
6,022.0	0.56	253.09	6,016.5	31.8	118.2	-18.1	0.09
6,116.0	0.62	257.75	6,110.5	32.7	118.0	-19.0	0.08
6,209.0	0.58	260.14	6,203.4	33.6	117.8	-20.0	0.05
6,303.0	0.63	258.60	6,297.4	34.5	117.6	-21.0	0.06
6,397.0	0.68	262.60	6,391.4	35.6	117.4	-22.0	0.07
6,491.0	0.71	273.66	6,485.4	36.7	117.4	-23.2	0.15
6,585.0	0.65	265.34	6,579.4	37.8	117.4	-24.3	0.12
6,678.0	0.53	260.08	6,672.4	38.7	117.3	-25.2	0.14
6,772.0	0.38	228.70	6,766.4	39.3	117.0	-25.9	0.30
6,866.0	0.51	226.88	6,860.4	39.8	116.5	-26.4	0.14
6,960.0	0.58	228.39	6,954.4	40.4	115.9	-27.1	0.08
7,053.0	0.55	237.54	7,047.4	41.1	115.4	-27.8	0.10
7,147.0	0.69	237.32	7,141.4	41.9	114.8	-28.7	0.15
7,241.0	0.81	231.03	7,235.4	42.8	114.1	-29.7	0.15
7,335.0	0.92	229.13	7,329.4	43.7	113.2	-30.7	0.12
7,429.0	0.48	9.54	7,423.4	44.2	113.1	-31.3	1.41
7,523.0	0.85	19.15	7,517.4	44.1	114.1	-31.0	0.41
7,617.0	0.75	7.46	7,611.4	43.9	115.4	-30.6	0.20
7,710.0	0.59	355.47	7,704.4	44.0	116.5	-30.6	0.23
7,804.0	0.60	341.99	7,798.3	44.3	117.4	-30.8	0.15
7,898.0	0.64	341.27	7,892.3	44.7	118.4	-31.1	0.04
7,991.0	0.67	334.88	7,985.3	45.2	119.4	-31.5	0.08
8,084.0	0.75	330.03	8,078.3	45.9	120.4	-32.1	0.11
8,179.0	0.81	329.71	8,173.3	46.6	121.5	-32.7	0.06
8,272.0	0.92	328.04	8,266.3	47.5	122.7	-33.4	0.12
8,365.0	0.40	337.31	8,359.3	48.1	123.6	-33.9	0.57
8,459.0	0.73	29.26	8,453.3	48.1	124.5	-33.8	0.61
8,553.0	0.88	20.48	8,547.3	47.7	125.7	-33.2	0.21
8,647.0	0.84	352.02	8,641.3	47.7	127.0	-33.1	0.45
8,741.0	0.92	295.43	8,735.3	48.6	128.0	-33.9	0.89
8,834.0	1.33	137.28	8,828.3	48.4	127.6	-33.8	2.38
8,928.0	1.73	137.98	8,922.2	46.6	125.7	-32.1	0.43
9,023.0	1.15	144.56	9,017.2	44.8	123.9	-30.6	0.63
9,116.0	0.57	161.21	9,110.2	44.0	122.7	-29.9	0.67
9,210.0	0.24	174.20	9,204.2	43.8	122.0	-29.7	0.36

Company: Legacy Reserves
Project: Lea County, NM (NAD83)
Site: Lea
Well: Lea Unit #63H
Wellbore: Original Wellbore
Design: Original Wellbore

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

Well Lea Unit #63H
 RKB @ 3707.0usft
 RKB @ 3707.0usft
 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)
9,304.0	0.57	143.89	9,298.2	43.4	121.5	-29.4	0.41
9,398.0	1.03	134.11	9,392.2	42.4	120.5	-28.6	0.51
9,492.0	0.60	133.47	9,486.2	41.3	119.6	-27.6	0.46
9,586.0	0.50	171.64	9,580.2	40.8	118.8	-27.2	0.40
9,681.0	0.90	176.30	9,675.2	40.6	117.7	-27.1	0.42
9,775.0	1.21	198.50	9,769.1	40.7	116.0	-27.3	0.54
9,869.0	1.24	200.71	9,863.1	41.1	114.1	-28.0	0.06
9,964.0	1.57	202.78	9,958.1	41.7	111.9	-28.9	0.35
10,058.0	1.36	211.81	10,052.1	42.6	109.8	-30.0	0.33
10,153.0	1.72	211.03	10,147.0	43.6	107.6	-31.3	0.38
10,247.0	1.62	221.10	10,241.0	45.0	105.4	-32.9	0.33
10,268.0	1.43	216.58	10,262.0	45.3	105.0	-33.2	1.07
10,343.0	3.04	351.53	10,336.9	46.2	106.2	-34.1	5.57
10,375.0	9.06	4.26	10,368.8	46.6	109.5	-34.0	19.16
10,406.0	15.06	5.63	10,399.1	46.8	116.0	-33.5	19.38
10,437.0	20.11	4.45	10,428.6	47.0	125.3	-32.6	16.33
10,486.0	25.57	2.96	10,473.7	48.1	144.3	-31.4	11.20
10,532.0	32.40	1.90	10,514.0	49.7	166.5	-30.5	14.89
10,599.0	38.51	354.88	10,568.5	55.5	205.3	-31.8	10.95
10,626.0	41.55	354.13	10,589.2	59.2	222.6	-33.5	11.40
10,657.0	44.73	352.12	10,611.8	64.2	243.6	-36.0	11.17
10,689.0	45.54	353.29	10,634.4	69.7	266.1	-38.9	3.62
10,719.0	47.53	352.52	10,655.0	74.9	287.7	-41.6	6.89
10,767.0	51.78	352.44	10,686.1	83.8	324.0	-46.4	8.86
10,815.0	54.85	353.64	10,714.8	92.9	362.2	-51.0	6.70
10,862.0	60.06	351.77	10,740.0	102.5	401.5	-56.1	11.58
10,909.0	65.72	350.64	10,761.5	113.7	442.8	-62.5	12.23
10,956.0	71.09	348.46	10,778.7	126.6	485.8	-70.4	12.21
11,004.0	76.41	346.11	10,792.2	141.9	530.7	-80.6	12.04
11,035.0	80.99	345.98	10,798.2	152.6	560.2	-87.9	14.78
11,098.0	85.77	349.57	10,805.5	172.9	621.3	-101.1	9.47
11,124.0	87.01	350.76	10,807.1	180.3	646.9	-105.6	6.60
11,156.0	88.32	351.90	10,808.5	188.8	678.5	-110.4	5.42
11,172.0	88.32	352.12	10,808.9	192.8	694.3	-112.6	1.35
FTP-Lea 63H							
11,218.0	88.32	352.74	10,810.3	204.1	739.9	-118.7	1.35
11,250.0	89.66	353.24	10,810.8	211.7	771.7	-122.6	4.47
11,313.0	91.11	353.51	10,810.4	226.2	834.2	-129.8	2.34
11,407.0	92.82	353.56	10,807.2	247.6	927.6	-140.4	1.82
11,501.0	94.03	353.87	10,801.6	268.7	1,020.9	-150.7	1.33
11,596.0	93.83	355.51	10,795.1	288.4	1,115.2	-159.5	1.74
11,690.0	94.24	355.23	10,788.4	306.9	1,208.7	-167.0	0.53
11,785.0	93.06	354.72	10,782.4	326.1	1,303.1	-175.3	1.35
11,879.0	93.19	355.14	10,777.3	345.3	1,396.6	-183.6	0.47

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11,974.0	92.99	355.65	10,772.2	363.9	1,491.2	-191.2	0.58
12,068.0	91.68	355.64	10,768.3	381.9	1,584.8	-198.4	1.39
12,163.0	91.48	355.39	10,765.7	400.3	1,679.5	-205.8	0.34
12,257.0	91.61	355.67	10,763.2	418.5	1,773.2	-213.1	0.33
12,351.0	91.58	356.58	10,760.6	435.7	1,866.9	-219.5	0.97
12,446.0	90.57	356.12	10,758.8	452.8	1,961.7	-225.5	1.17
12,540.0	90.91	355.81	10,757.6	470.3	2,055.5	-232.1	0.49
12,635.0	92.45	356.14	10,754.8	488.0	2,150.2	-238.8	1.66
12,729.0	92.72	353.97	10,750.5	506.9	2,243.7	-246.9	2.32
12,823.0	91.21	352.52	10,747.3	528.8	2,337.0	-257.9	2.23
12,918.0	92.38	352.00	10,744.3	552.4	2,431.1	-270.7	1.35
13,012.0	93.33	351.60	10,739.6	576.6	2,524.0	-284.1	1.10
13,106.0	92.42	352.54	10,734.9	600.3	2,617.0	-297.1	1.39
13,201.0	90.64	352.26	10,732.4	623.7	2,711.1	-309.6	1.90
13,295.0	90.94	351.95	10,731.1	647.4	2,804.2	-322.5	0.46
13,390.0	91.64	351.74	10,729.0	671.8	2,898.3	-336.0	0.77
13,484.0	90.81	351.75	10,727.0	696.0	2,991.3	-349.5	0.88
13,579.0	91.18	351.60	10,725.3	720.6	3,085.2	-363.3	0.42
13,673.0	91.41	351.20	10,723.2	745.4	3,178.2	-377.3	0.49
13,767.0	91.68	350.75	10,720.6	770.9	3,271.0	-392.0	0.56
13,862.0	93.33	352.41	10,716.5	795.6	3,364.8	-405.9	2.46
13,956.0	92.08	353.35	10,712.1	818.1	3,458.0	-417.6	1.66
14,050.0	92.55	354.90	10,708.3	838.5	3,551.4	-427.2	1.72
14,144.0	91.38	354.56	10,705.0	858.0	3,645.0	-435.8	1.30
14,239.0	89.33	353.07	10,704.4	879.2	3,739.4	-446.1	2.67
14,333.0	90.07	353.29	10,704.9	901.1	3,832.8	-457.2	0.82
14,427.0	93.80	353.53	10,701.8	922.7	3,926.1	-468.0	3.98
14,522.0	90.10	353.93	10,698.5	944.0	4,020.4	-478.4	3.92
14,616.0	90.71	353.47	10,697.9	965.2	4,113.9	-488.7	0.81
14,710.0	91.88	353.40	10,695.7	986.7	4,207.2	-499.4	1.25
14,804.0	92.25	353.03	10,692.4	1,008.6	4,300.5	-510.5	0.56
14,898.0	93.09	353.61	10,688.0	1,030.4	4,393.8	-521.4	1.09
14,992.0	92.79	353.49	10,683.2	1,051.7	4,487.0	-532.0	0.34
15,086.0	91.31	353.13	10,679.8	1,073.5	4,580.3	-542.9	1.62
15,180.0	90.24	353.26	10,678.5	1,095.4	4,673.7	-554.1	1.15
15,275.0	89.97	353.14	10,678.4	1,117.6	4,768.0	-565.3	0.31
15,369.0	91.17	352.47	10,677.4	1,140.2	4,861.2	-577.1	1.46
15,463.0	92.35	354.30	10,674.5	1,161.8	4,954.6	-587.9	2.32
15,557.0	91.51	354.31	10,671.4	1,181.9	5,048.1	-597.2	0.89
15,651.0	92.02	353.85	10,668.5	1,202.5	5,141.5	-606.9	0.73
15,745.0	93.16	354.01	10,664.2	1,223.2	5,234.9	-616.9	1.22
15,839.0	91.75	354.06	10,660.2	1,243.8	5,328.3	-626.6	1.50
15,933.0	91.61	353.94	10,657.4	1,264.5	5,421.7	-636.4	0.20
16,027.0	92.99	354.51	10,653.7	1,284.8	5,515.2	-645.9	1.59

Company:	Legacy Reserves	Local Co-ordinate Reference:	Well Lea Unit #63H
Project:	Lea County, NM (NAD83)	TVD Reference:	RKB @ 3707.0usft
Site:	Lea	MD Reference:	RKB @ 3707.0usft
Well:	Lea Unit #63H	North Reference:	Grid
Wellbore:	Original Wellbore	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellbore	Database:	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)
16,122.0	93.56	354.86	10,648.2	1,304.5	5,609.6	-654.7	0.70
16,216.0	92.35	354.47	10,643.4	1,324.1	5,703.1	-663.4	1.35
16,310.0	92.18	353.80	10,639.7	1,344.5	5,796.5	-673.0	0.73
16,404.0	92.55	353.88	10,635.8	1,365.4	5,889.9	-683.1	0.40
16,498.0	91.14	353.51	10,632.8	1,386.5	5,983.3	-693.4	1.55
16,592.0	89.60	352.83	10,632.2	1,408.5	6,076.6	-704.6	1.79
16,686.0	90.23	352.14	10,632.3	1,431.6	6,169.8	-716.9	0.99
16,780.0	90.70	352.20	10,631.5	1,455.2	6,262.9	-729.7	0.50
16,875.0	91.95	352.19	10,629.3	1,479.0	6,357.0	-742.6	1.32
16,969.0	92.08	352.49	10,626.0	1,502.3	6,450.1	-755.1	0.35
17,063.0	92.22	352.30	10,622.5	1,525.5	6,543.2	-767.5	0.25
17,156.0	92.85	351.69	10,618.4	1,549.0	6,635.2	-780.5	0.94
17,250.0	92.28	351.92	10,614.2	1,573.2	6,728.2	-793.9	0.65
17,344.0	92.75	352.00	10,610.1	1,597.1	6,821.2	-807.0	0.51
17,438.0	92.99	352.14	10,605.4	1,620.8	6,914.1	-819.9	0.30
17,532.0	93.56	351.99	10,600.0	1,644.5	7,007.1	-832.9	0.63
17,626.0	93.09	351.60	10,594.5	1,668.6	7,100.0	-846.3	0.65
17,721.0	93.56	351.27	10,589.0	1,693.6	7,193.7	-860.4	0.60
17,815.0	93.09	351.15	10,583.6	1,718.6	7,286.5	-874.8	0.52
17,909.0	91.91	350.90	10,579.5	1,744.0	7,379.2	-889.4	1.28
18,005.0	91.54	350.76	10,576.6	1,770.3	7,474.0	-904.7	0.41
18,098.0	91.18	351.17	10,574.4	1,795.5	7,565.8	-919.3	0.59
18,191.0	91.21	350.92	10,572.4	1,820.5	7,657.6	-933.8	0.27
18,284.0	91.95	351.36	10,569.9	1,845.5	7,749.5	-948.1	0.93
18,378.0	91.48	350.73	10,567.1	1,870.8	7,842.3	-962.7	0.84
18,420.0	91.01	350.87	10,566.2	1,882.3	7,883.8	-969.4	1.17
18,477.9	91.01	350.87	10,565.1	1,898.1	7,940.9	-978.6	0.00
BHL-Lea 63H							
18,480.0	91.01	350.87	10,565.1	1,898.7	7,943.0	-978.9	0.00

Checked By: _____	Approved By: _____	Date: _____
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