



Matador Resources Company

Lea County, NM (NAD27)

Brad Lummis Fed Com

Brad Lummis Fed Com 121H

OH

HOBBS OCD
MAR 06 2020
RECEIVED

Design: OH

Standard Survey Report

20 December, 2019





Total Directional Services Survey Report



Company: Matador Resources Company
Project: Lea County, NM (NAD27)
Site: Brad Lummis Fed Com
Well: Brad Lummis Fed Com 121H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Brad Lummis Fed Com 121H
TVD Reference: 3492' GE + 28.5' KB @ 3520.50usft
MD Reference: 3492' GE + 28.5' KB @ 3520.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Project	Lea County, NM (NAD27)		
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	Brad Lummis Fed Com				
Site Position:		Northing:	440,870.00 usft	Latitude:	32.208963
From:	Map	Easting:	774,093.00 usft	Longitude:	-103.447147
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	Brad Lummis Fed Com 121H					
Well Position	+N/-S	0.00 usft	Northing:	440,870.00 usft	Latitude:	32.208963
	+E/-W	0.00 usft	Easting:	774,093.00 usft	Longitude:	-103.447147
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,492.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/27/2019	6.63	60.04	47,689.97775879

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	177.67	

Survey Program	Date 12/20/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
234.00	16,180.00	Survey #1 (OH)	MWD+HRGM	OWSG MWD + HRGM
16,229.00	16,229.00	Survey #2 (OH)	BLIND	OWSG BLIND

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
SHL (BLFC 121H)									
234.00	0.90	348.30	233.99	1.80	-0.37	-1.81	0.38	0.38	0.00
293.00	0.90	0.90	292.98	2.72	-0.46	-2.73	0.33	0.00	21.36
412.00	0.90	28.80	411.97	4.47	0.01	-4.47	0.36	0.00	23.45
564.00	0.60	52.40	563.96	6.00	1.21	-5.95	0.28	-0.20	15.53
655.00	0.60	97.20	654.95	6.23	2.06	-6.14	0.50	0.00	49.23
745.00	0.40	123.50	744.95	6.00	2.79	-5.88	0.33	-0.22	29.22
836.00	0.60	153.50	835.94	5.40	3.27	-5.26	0.35	0.22	32.97
927.00	0.80	142.20	926.94	4.47	3.87	-4.31	0.27	0.22	-12.42



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1,077.00	0.80	103.90	1,076.92	3.39	5.53	-3.16	0.35	0.00	-25.53
1,198.00	0.60	92.00	1,197.92	3.17	6.98	-2.88	0.20	-0.17	-9.83
1,288.00	0.70	96.10	1,287.91	3.09	8.00	-2.76	0.12	0.11	4.56
1,379.00	0.50	92.30	1,378.90	3.02	8.95	-2.65	0.22	-0.22	-4.18
1,472.00	0.20	64.40	1,471.90	3.07	9.50	-2.68	0.36	-0.32	-30.00
1,565.00	0.20	99.40	1,564.90	3.11	9.81	-2.71	0.13	0.00	37.63
1,658.00	0.20	340.20	1,657.90	3.24	9.91	-2.83	0.37	0.00	-128.17
1,752.00	0.30	30.40	1,751.90	3.61	9.98	-3.20	0.25	0.11	53.40
1,843.00	0.20	86.00	1,842.90	3.82	10.26	-3.40	0.27	-0.11	61.10
1,936.00	0.30	53.70	1,935.90	3.98	10.62	-3.54	0.18	0.11	-34.73
2,029.00	0.30	22.80	2,028.90	4.35	10.91	-3.90	0.17	0.00	-33.23
2,123.00	0.20	341.20	2,122.90	4.73	10.95	-4.28	0.21	-0.11	-44.26
2,216.00	0.50	308.00	2,215.90	5.13	10.58	-4.70	0.38	0.32	-35.70
2,309.00	0.80	311.10	2,308.89	5.81	9.77	-5.41	0.32	0.32	3.33
2,403.00	0.60	316.30	2,402.88	6.60	8.94	-6.23	0.22	-0.21	5.53
2,496.00	0.80	317.20	2,495.88	7.43	8.16	-7.09	0.22	0.22	0.97
2,590.00	0.60	307.50	2,589.87	8.21	7.32	-7.90	0.25	-0.21	-10.32
2,683.00	0.60	315.40	2,682.86	8.85	6.59	-8.57	0.09	0.00	8.49
2,777.00	0.70	316.40	2,776.86	9.62	5.85	-9.37	0.11	0.11	1.06
2,870.00	0.70	309.10	2,869.85	10.39	5.02	-10.17	0.10	0.00	-7.85
2,964.00	0.80	312.10	2,963.84	11.19	4.09	-11.01	0.11	0.11	3.19
3,057.00	0.70	302.40	3,056.83	11.93	3.13	-11.79	0.17	-0.11	-10.43
3,151.00	0.50	304.60	3,150.83	12.47	2.30	-12.36	0.21	-0.21	2.34
3,244.00	0.20	304.60	3,243.83	12.79	1.84	-12.70	0.32	-0.32	0.00
3,338.00	0.20	32.50	3,337.83	13.02	1.79	-12.94	0.30	0.00	93.51
3,431.00	0.30	49.60	3,430.83	13.32	2.06	-13.22	0.13	0.11	18.39
3,525.00	0.30	46.00	3,524.83	13.65	2.43	-13.54	0.02	0.00	-3.83
3,618.00	2.30	46.50	3,617.80	15.10	3.95	-14.93	2.15	2.15	0.54
3,712.00	5.40	43.30	3,711.57	19.62	8.36	-19.26	3.30	3.30	-3.40
3,805.00	6.70	45.70	3,804.05	26.59	15.24	-25.95	1.42	1.40	2.58
3,899.00	7.50	46.60	3,897.33	34.64	23.62	-33.65	0.86	0.85	0.96
3,992.00	6.70	45.00	3,989.62	42.64	31.87	-41.31	0.89	-0.86	-1.72
4,086.00	6.10	41.70	4,083.03	50.25	39.07	-48.62	0.75	-0.64	-3.51
4,179.00	6.00	39.00	4,175.51	57.72	45.42	-55.82	0.32	-0.11	-2.90
4,273.00	5.40	40.30	4,269.05	64.91	51.37	-62.76	0.65	-0.64	1.38
4,366.00	4.90	39.50	4,361.67	71.31	56.73	-68.94	0.54	-0.54	-0.86
4,460.00	4.70	38.30	4,455.34	77.43	61.67	-74.86	0.24	-0.21	-1.28
4,553.00	4.80	38.20	4,548.02	83.48	66.43	-80.71	0.11	0.11	-0.11
4,647.00	4.40	52.50	4,641.72	88.77	71.73	-85.77	1.29	-0.43	15.21
4,740.00	5.10	52.10	4,734.40	93.48	77.82	-90.23	0.75	0.75	-0.43
4,834.00	5.30	44.40	4,828.02	99.15	84.15	-95.64	0.77	0.21	-8.19
4,927.00	5.10	46.50	4,920.64	105.06	90.16	-101.30	0.30	-0.22	2.26
5,021.00	5.20	57.20	5,014.26	110.24	96.77	-106.21	1.03	0.11	11.38



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5,114.00	5.40	65.00	5,106.86	114.38	104.28	-110.03	0.80	0.22	8.39
5,208.00	5.80	74.40	5,200.42	117.52	112.86	-112.83	1.06	0.43	10.00
5,301.00	5.10	59.30	5,293.00	120.90	120.94	-115.87	1.71	-0.75	-16.24
5,395.00	4.90	43.10	5,386.65	125.96	127.28	-120.67	1.51	-0.21	-17.23
5,518.00	4.10	49.10	5,509.27	132.68	134.19	-127.10	0.75	-0.65	4.88
5,612.00	4.50	47.30	5,603.00	137.38	139.44	-131.58	0.45	0.43	-1.91
5,706.00	6.20	47.50	5,696.59	143.31	145.89	-137.25	1.81	1.81	0.21
5,799.00	6.70	43.30	5,789.00	150.65	153.32	-144.28	0.74	0.54	-4.52
5,893.00	6.90	41.80	5,882.34	158.85	160.84	-152.17	0.28	0.21	-1.60
5,986.00	6.50	39.20	5,974.70	167.09	167.89	-160.12	0.54	-0.43	-2.80
6,080.00	6.20	36.00	6,068.13	175.32	174.24	-168.08	0.49	-0.32	-3.40
6,173.00	6.30	35.70	6,160.57	183.53	180.17	-176.04	0.11	0.11	-0.32
6,266.00	6.30	32.20	6,253.01	191.99	185.86	-184.26	0.41	0.00	-3.76
6,360.00	5.60	29.50	6,346.51	200.35	190.87	-192.41	0.80	-0.74	-2.87
6,453.00	5.10	25.10	6,439.10	208.04	194.86	-199.93	0.70	-0.54	-4.73
6,547.00	6.60	31.80	6,532.61	216.41	199.48	-208.11	1.75	1.60	7.13
6,640.00	7.60	35.30	6,624.90	225.98	205.85	-217.41	1.17	1.08	3.76
6,734.00	7.50	32.40	6,718.08	236.23	212.73	-227.37	0.42	-0.11	-3.09
6,827.00	7.30	31.70	6,810.31	246.38	219.08	-237.26	0.24	-0.22	-0.75
6,921.00	7.00	29.90	6,903.58	256.43	225.08	-247.05	0.40	-0.32	-1.91
7,015.00	6.80	29.60	6,996.90	266.23	230.68	-256.62	0.22	-0.21	-0.32
7,108.00	6.40	26.50	7,089.28	275.66	235.71	-265.83	0.58	-0.43	-3.33
7,202.00	6.10	23.20	7,182.72	284.94	240.02	-274.93	0.50	-0.32	-3.51
7,295.00	6.10	40.50	7,275.20	293.24	245.18	-283.01	1.97	0.00	18.60
7,389.00	6.40	44.80	7,368.64	300.75	252.11	-290.24	0.59	0.32	4.57
7,482.00	5.80	41.80	7,461.12	307.93	258.89	-297.14	0.73	-0.65	-3.23
7,576.00	5.50	42.20	7,554.66	314.81	265.09	-303.76	0.32	-0.32	0.43
7,669.00	5.40	41.80	7,647.24	321.37	271.00	-310.07	0.12	-0.11	-0.43
7,763.00	5.20	41.80	7,740.84	327.85	276.78	-316.31	0.21	-0.21	0.00
7,856.00	5.00	39.40	7,833.47	334.12	282.17	-322.35	0.31	-0.22	-2.58
7,950.00	3.90	35.30	7,927.19	339.90	286.61	-327.94	1.22	-1.17	-4.36
8,043.00	5.20	40.20	8,019.89	345.70	291.16	-333.55	1.46	1.40	5.27
8,136.00	5.30	40.30	8,112.50	352.19	296.66	-339.82	0.11	0.11	0.11
8,230.00	4.30	42.80	8,206.17	358.09	301.86	-345.50	1.09	-1.06	2.66
8,324.00	4.10	44.50	8,299.92	363.07	306.61	-350.28	0.25	-0.21	1.81
8,417.00	3.30	41.30	8,392.72	367.45	310.71	-354.50	0.89	-0.86	-3.44
8,511.00	2.80	42.90	8,486.59	371.17	314.06	-358.07	0.54	-0.53	1.70
8,604.00	2.10	39.10	8,579.50	374.15	316.68	-360.95	0.77	-0.75	-4.09
8,698.00	1.50	20.10	8,673.46	376.65	318.19	-363.38	0.89	-0.64	-20.21
8,791.00	1.20	351.80	8,766.43	378.75	318.47	-365.47	0.78	-0.32	-30.43
8,885.00	1.10	342.40	8,860.41	380.59	318.05	-367.32	0.23	-0.11	-10.00
8,978.00	1.10	324.50	8,953.40	382.16	317.27	-368.93	0.37	0.00	-19.25
9,072.00	1.10	313.90	9,047.38	383.52	316.09	-370.34	0.22	0.00	-11.28



Total Directional Services

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9,165.00	1.10	317.20	9,140.36	384.80	314.84	-371.66	0.07	0.00	3.55
9,259.00	1.40	295.30	9,234.34	385.95	313.19	-372.88	0.59	0.32	-23.30
9,352.00	0.40	276.50	9,327.33	386.47	311.84	-373.45	1.11	-1.08	-20.22
9,446.00	0.30	236.40	9,421.33	386.37	311.31	-373.38	0.27	-0.11	-42.66
9,539.00	0.60	324.00	9,514.32	386.63	310.82	-373.66	0.71	0.32	94.19
9,633.00	1.50	334.30	9,608.31	388.14	310.00	-375.20	0.97	0.96	10.96
9,726.00	2.80	321.90	9,701.24	391.02	308.07	-378.16	1.48	1.40	-13.33
9,820.00	0.10	38.90	9,795.20	392.90	306.70	-380.08	2.96	-2.87	81.91
9,913.00	0.70	155.80	9,888.20	392.44	306.99	-379.61	0.81	0.65	125.70
10,007.00	0.50	166.20	9,982.20	391.52	307.32	-378.68	0.24	-0.21	11.06
10,100.00	0.60	195.90	10,075.19	390.66	307.28	-377.82	0.32	0.11	31.94
10,194.00	0.60	227.60	10,169.19	389.85	306.78	-377.04	0.35	0.00	33.72
10,287.00	0.90	263.10	10,262.18	389.43	305.70	-376.66	0.58	0.32	38.17
10,381.00	0.60	283.40	10,356.17	389.46	304.49	-376.74	0.42	-0.32	21.60
10,474.00	0.80	269.90	10,449.16	389.57	303.37	-376.90	0.28	0.22	-14.52
10,568.00	0.70	277.10	10,543.16	389.64	302.14	-377.02	0.15	-0.11	7.66
10,671.00	1.10	278.00	10,646.14	389.86	300.54	-377.30	0.39	0.39	0.87
KOP									
10,718.00	3.90	189.70	10,693.10	388.34	299.82	-375.81	8.55	5.96	-187.87
10,765.00	9.70	183.90	10,739.75	382.81	299.28	-370.31	12.41	12.34	-12.34
10,812.00	15.70	183.40	10,785.58	372.51	298.63	-360.04	12.77	12.77	-1.06
10,858.00	20.80	187.60	10,829.26	358.19	297.18	-345.79	11.44	11.09	9.13
10,905.00	25.10	189.10	10,872.53	340.06	294.50	-327.79	9.23	9.15	3.19
10,907.08	25.25	189.12	10,874.41	339.19	294.36	-326.92	7.04	7.02	1.19
100' FNL HL Crossing									
10,952.00	28.40	189.60	10,914.49	319.19	291.06	-307.08	7.04	7.02	1.06
10,999.00	31.40	186.60	10,955.23	296.00	287.79	-284.04	7.13	6.38	-6.38
11,046.00	35.20	185.10	10,994.51	270.34	285.18	-258.50	8.27	8.09	-3.19
11,093.00	41.00	187.40	11,031.48	241.53	281.98	-229.85	12.70	12.34	4.89
11,139.00	46.00	189.10	11,064.84	210.21	277.42	-198.74	11.16	10.87	3.70
11,186.00	50.40	189.60	11,096.16	175.65	271.72	-164.44	9.40	9.36	1.06
11,232.00	53.90	189.90	11,124.38	139.86	265.57	-128.93	7.63	7.61	0.65
11,279.00	58.40	187.60	11,150.56	101.29	259.66	-90.63	10.40	9.57	-4.89
11,326.00	62.80	184.70	11,173.63	60.59	255.29	-50.14	10.79	9.36	-6.17
11,373.00	68.10	184.80	11,193.15	18.00	251.75	-7.74	11.28	11.28	0.21
11,420.00	73.90	186.60	11,208.44	-26.20	247.33	36.25	12.86	12.34	3.83
11,467.00	78.60	186.70	11,219.61	-71.53	242.04	81.33	10.00	10.00	0.21
11,513.00	82.80	186.40	11,227.04	-116.62	236.87	126.17	9.15	9.13	-0.65
11,560.00	86.90	185.90	11,231.26	-163.15	231.85	172.45	8.79	8.72	-1.06
11,574.10	87.20	185.93	11,231.99	-177.16	230.40	186.39	2.14	2.13	0.21
LP (BLFC 121H)									
11,607.00	87.90	186.00	11,233.39	-209.85	226.99	218.92	2.14	2.13	0.21
11,700.00	89.30	185.70	11,235.67	-302.33	217.51	310.94	1.54	1.51	-0.32
11,794.00	91.10	185.80	11,235.34	-395.86	208.09	404.00	1.92	1.91	0.11



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 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)
11,887.00	90.50	184.30	11,234.04	-488.48	199.91	496.22	1.74	-0.65	-1.61
11,981.00	90.20	181.80	11,233.46	-582.34	194.91	589.79	2.68	-0.32	-2.66
12,075.00	91.30	181.40	11,232.23	-676.29	192.28	683.56	1.25	1.17	-0.43
12,168.00	89.80	180.60	11,231.34	-769.27	190.66	776.40	1.83	-1.61	-0.86
12,262.00	91.10	180.40	11,230.60	-863.26	189.84	870.28	1.40	1.38	-0.21
12,355.00	89.20	179.10	11,230.36	-956.26	190.25	963.21	2.48	-2.04	-1.40
12,449.00	90.40	178.70	11,230.69	-1,050.24	192.05	1,057.19	1.35	1.28	-0.43
12,542.00	92.10	178.90	11,228.66	-1,143.19	194.00	1,150.14	1.84	1.83	0.22
12,636.00	89.60	179.70	11,227.26	-1,237.16	195.15	1,244.08	2.79	-2.66	0.85
12,729.00	86.60	179.70	11,230.35	-1,330.10	195.63	1,336.96	3.23	-3.23	0.00
12,823.00	88.60	180.00	11,234.28	-1,424.01	195.88	1,430.81	2.15	2.13	0.32
12,917.00	90.10	180.10	11,235.35	-1,518.00	195.80	1,524.72	1.60	1.60	0.11
13,010.00	91.30	179.70	11,234.21	-1,611.00	195.96	1,617.64	1.36	1.29	-0.43
13,104.00	93.00	179.40	11,230.69	-1,704.92	196.70	1,711.52	1.84	1.81	-0.32
13,197.00	90.90	178.90	11,227.52	-1,797.85	198.08	1,804.43	2.32	-2.26	-0.54
13,291.00	87.80	180.00	11,228.59	-1,891.83	198.98	1,898.36	3.50	-3.30	1.17
13,385.00	88.80	180.20	11,231.38	-1,985.79	198.81	1,992.24	1.08	1.06	0.21
13,479.00	90.60	180.90	11,231.87	-2,079.78	197.91	2,086.11	2.05	1.91	0.74
13,572.00	92.40	181.30	11,229.44	-2,172.72	196.13	2,178.91	1.98	1.94	0.43
13,666.00	89.70	181.40	11,227.71	-2,266.67	193.91	2,272.69	2.87	-2.87	0.11
13,759.00	90.10	181.10	11,227.88	-2,359.65	191.88	2,365.51	0.54	0.43	-0.32
13,853.00	91.80	181.20	11,226.32	-2,453.62	190.00	2,459.32	1.81	1.81	0.11
13,946.00	89.10	182.20	11,225.59	-2,546.56	187.24	2,552.07	3.10	-2.90	1.08
14,040.00	86.90	181.90	11,228.87	-2,640.44	183.88	2,645.74	2.36	-2.34	-0.32
14,133.00	87.90	182.10	11,233.09	-2,733.29	180.64	2,738.37	1.10	1.08	0.22
14,227.00	85.30	181.40	11,238.66	-2,827.07	177.77	2,831.96	2.86	-2.77	-0.74
14,320.00	86.00	181.60	11,245.71	-2,919.77	175.34	2,924.49	0.78	0.75	0.22
14,414.00	87.30	181.80	11,251.21	-3,013.56	172.56	3,018.09	1.40	1.38	0.21
14,507.00	89.20	181.80	11,254.05	-3,106.47	169.64	3,110.80	2.04	2.04	0.00
14,600.00	88.40	180.70	11,255.99	-3,199.43	167.61	3,203.60	1.46	-0.86	-1.18
14,693.00	86.90	179.00	11,259.81	-3,292.34	167.85	3,296.45	2.44	-1.61	-1.83
14,787.00	87.40	178.80	11,264.48	-3,386.21	169.66	3,390.31	0.57	0.53	-0.21
14,879.00	88.40	178.30	11,267.85	-3,478.11	171.98	3,482.23	1.22	1.09	-0.54
14,973.00	85.40	178.70	11,272.94	-3,571.93	174.44	3,576.07	3.22	-3.19	0.43
15,066.00	87.10	178.90	11,279.02	-3,664.71	176.38	3,668.85	1.84	1.83	0.22
15,160.00	89.20	179.00	11,282.05	-3,758.64	178.10	3,762.78	2.24	2.23	0.11
15,253.00	86.00	179.20	11,285.95	-3,851.54	179.56	3,855.65	3.45	-3.44	0.22
15,346.00	86.90	179.30	11,291.71	-3,944.35	180.78	3,948.44	0.97	0.97	0.11
15,440.00	87.80	179.10	11,296.05	-4,038.24	182.09	4,042.30	0.98	0.96	-0.21
15,533.00	86.60	179.70	11,300.59	-4,131.12	183.06	4,135.15	1.44	-1.29	0.65
15,627.00	88.10	179.60	11,304.94	-4,225.01	183.64	4,228.99	1.60	1.60	-0.11
15,720.00	85.60	179.10	11,310.05	-4,317.86	184.69	4,321.80	2.74	-2.69	-0.54
15,814.00	86.50	179.10	11,316.53	-4,411.62	186.16	4,415.55	0.96	0.96	0.00
15,907.00	87.60	178.90	11,321.31	-4,504.49	187.78	4,508.40	1.20	1.18	-0.22



Total Directional Services

Survey Report



Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Brad Lummis Fed Com 121H
Project:	Lea County, NM (NAD27)	TVD Reference:	3492' GE + 28.5' KB @ 3520.50usft
Site:	Brad Lummis Fed Com	MD Reference:	3492' GE + 28.5' KB @ 3520.50usft
Well:	Brad Lummis Fed Com 121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 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)
16,000.00	88.30	178.50	11,324.64	-4,597.40	189.89	4,601.32	0.87	0.75	-0.43
16,001.74	88.33	178.50	11,324.69	-4,599.14	189.94	4,603.06	1.71	1.70	-0.11
Platted BHL (BLFC 121H)									
16,094.00	89.90	178.40	11,326.11	-4,691.35	192.43	4,695.30	1.71	1.70	-0.11
16,143.09	90.53	178.23	11,325.93	-4,740.42	193.88	4,744.38	1.33	1.28	-0.35
100' FSL HL Crossing									
16,180.00	91.00	178.10	11,325.44	-4,777.31	195.06	4,781.29	1.33	1.28	-0.35
16,227.96	91.00	178.10	11,324.60	-4,825.23	196.65	4,829.24	0.00	0.00	0.00
PBHL (BLFC 121H)									
16,229.00	91.00	178.10	11,324.58	-4,826.27	196.68	4,830.28	0.00	0.00	0.00
BHL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,671.00	10,646.14	389.86	300.54	KOP
10,907.08	10,874.41	339.19	294.36	100' FNL HL Crossing
16,143.09	11,325.93	-4,740.42	193.88	100' FSL HL Crossing
16,229.00	11,324.58	-4,826.27	196.68	BHL

Checked By: _____	Approved By: _____	Date: _____
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