eog resources

EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Fruit Loop 29 State
#501H
OH

Design: OH

EOG PVA

15 October, 2015

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #501H
Project:	Lea County, NM (NAD 27 NME)	**TVD Reference:**	KB = 25' @ 3751.0usft (H&P 415)
Site:	Fruit Loop 29 State	**MD Reference:**	KB = 25' @ 3751.0usft (H&P 415)
Well:	#501H	**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 NME)

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 Fruit Loop 29 State

Site Position:		**Northing:**	525,719.00 usft	**Latitude:**	32° 26' 35.478 N
From:	Map	**Easting:**	725,750.00 usft	**Longitude:**	103° 36' 5.623 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.39 °

Well #501H

Well Position	**+N/-S**	0.0 usft	**Northing:**	530,557.00 usft	**Latitude:**	32° 27' 23.241 N
	+E/-W	0.0 usft	**Easting:**	727,360.00 usft	**Longitude:**	103° 35' 46.447 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,726.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/10/2015	7.16	60.29	48,246

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	175.64

Survey Program **Date** 10/15/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.0	15,800.0	Drilltech MWD #1 (OH)	MWD	MWD - Standard

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MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
199.0	0.90	265.50	199.0	-0.1	-1.6	0.45	0.45	0.00	-1.6	0.0
321.0	0.40	293.10	321.0	0.0	-2.9	0.47	-0.41	22.62	-2.7	1.2
416.0	0.40	282.20	416.0	0.2	-3.5	0.08	0.00	-11.47	-3.5	0.6
601.0	1.40	285.00	601.0	0.9	-6.3	0.54	0.54	1.51	-6.4	0.8
786.0	2.30	263.40	785.9	1.0	-12.2	0.61	0.49	-11.68	-12.0	-2.4
880.0	2.10	251.10	879.8	0.3	-15.7	0.54	-0.21	-13.09	-14.8	-5.4
974.0	3.90	229.70	973.7	-2.4	-19.8	2.22	1.91	-22.77	-16.6	-11.0
1,059.0	4.00	226.80	1,058.5	-6.3	-24.2	0.26	0.12	-3.41	-21.9	-12.0
1,153.0	2.60	205.20	1,152.3	-10.4	-27.5	1.97	-1.49	-22.98	-21.1	-20.4
1,248.0	3.20	170.80	1,247.2	-15.0	-27.9	1.90	0.63	-36.21	-10.3	-30.0
1,342.0	2.30	155.80	1,341.1	-19.3	-26.8	1.22	-0.96	-15.96	-6.6	-32.3
1,437.0	1.80	145.80	1,436.0	-22.3	-25.1	0.65	-0.53	-10.53	-4.3	-33.3
1,531.0	2.50	138.10	1,530.0	-25.0	-22.9	0.80	0.74	-8.19	-3.3	-33.8
1,626.0	2.30	125.20	1,624.9	-27.7	-20.0	0.60	-0.21	-13.58	0.4	-34.1
1,644.0	2.50	131.40	1,642.9	-28.1	-19.4	1.82	1.11	34.44	-4.0	-33.9
1,720.0	2.10	127.70	1,718.8	-30.1	-17.1	0.56	-0.53	-4.87	-4.9	-34.2
1,815.0	1.90	56.90	1,813.7	-30.3	-14.4	2.44	-0.21	-74.53	28.6	-17.5
1,909.0	2.60	34.50	1,907.7	-27.7	-11.8	1.18	0.74	-23.83	29.5	-5.9
2,003.0	2.50	38.20	2,001.6	-24.3	-9.4	0.20	-0.11	3.94	24.9	-7.7
2,098.0	2.10	41.60	2,096.5	-21.4	-6.9	0.44	-0.42	3.58	20.6	-9.0
2,193.0	2.60	30.70	2,191.4	-18.2	-4.7	0.70	0.53	-11.47	18.1	-5.3
2,287.0	4.00	28.70	2,285.3	-13.5	-2.0	1.49	1.49	-2.13	12.8	-4.7
2,382.0	4.40	28.60	2,380.0	-7.4	1.3	0.42	0.42	-0.11	5.9	-4.7
2,477.0	4.20	30.00	2,474.7	-1.2	4.8	0.24	-0.21	1.47	-1.4	-4.8
2,571.0	3.70	31.00	2,568.5	4.4	8.1	0.54	-0.53	1.06	-7.9	-4.7
2,666.0	3.50	31.20	2,663.3	9.5	11.2	0.21	-0.21	0.21	-13.9	-4.6

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Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,759.0	3.20	31.90	2,756.2	14.1	14.0	0.33	-0.32	0.75	-19.4	-4.4
2,853.0	3.90	32.30	2,850.0	19.1	17.1	0.75	0.74	0.43	-25.2	-4.3
2,948.0	4.60	37.70	2,944.7	24.8	21.2	0.85	0.74	5.68	-32.6	-1.6
3,042.0	4.20	43.50	3,038.5	30.3	25.8	0.64	-0.43	6.17	-39.7	2.1
3,136.0	3.90	46.00	3,132.2	35.0	30.5	0.37	-0.32	2.66	-46.3	4.0
3,231.0	3.20	47.20	3,227.0	39.0	34.8	0.74	-0.74	1.26	-52.0	5.0
3,326.0	3.00	46.70	3,321.9	42.5	38.5	0.21	-0.21	-0.53	-57.2	4.6
3,420.0	3.70	42.60	3,415.7	46.5	42.4	0.79	0.74	-4.36	-62.9	0.3
3,514.0	4.00	42.60	3,509.5	51.1	46.6	0.32	0.32	0.00	-69.2	0.3
3,703.0	3.00	47.40	3,698.2	59.3	54.7	0.55	-0.53	2.54	-80.4	6.6
3,797.0	2.50	48.60	3,792.1	62.3	58.1	0.54	-0.53	1.28	-84.8	8.3
3,891.0	2.80	51.10	3,886.0	65.1	61.4	0.34	0.32	2.66	-88.7	12.1
3,986.0	3.30	52.60	3,980.8	68.3	65.4	0.53	0.53	1.58	-93.4	14.5
4,080.0	2.80	57.90	4,074.7	71.1	69.5	0.61	-0.53	5.64	-96.6	23.3
4,175.0	2.50	59.00	4,169.6	73.4	73.2	0.32	-0.32	1.16	-100.6	25.2
4,269.0	1.90	58.30	4,263.5	75.3	76.3	0.64	-0.64	-0.74	-104.5	24.0
4,364.0	1.60	54.60	4,358.5	76.9	78.7	0.34	-0.32	-3.89	-108.7	17.1
4,458.0	1.20	70.40	4,452.5	78.0	80.7	0.59	-0.43	16.81	-102.2	46.4
4,553.0	1.60	83.10	4,547.4	78.5	83.0	0.53	0.42	13.37	-91.8	67.9
4,647.0	1.20	87.60	4,641.4	78.7	85.3	0.44	-0.43	4.79	-88.5	75.0
4,742.0	1.10	89.60	4,736.4	78.7	87.2	0.11	-0.11	2.11	-87.7	78.1
4,836.0	0.70	97.30	4,830.4	78.6	88.6	0.44	-0.43	8.19	-77.9	89.3
4,931.0	0.50	106.40	4,925.4	78.5	89.6	0.23	-0.21	9.58	-63.8	100.6
5,026.0	0.50	87.50	5,020.4	78.4	90.4	0.17	0.00	-19.89	-93.8	74.3
5,120.0	0.50	110.00	5,114.4	78.2	91.2	0.21	0.00	23.94	-59.0	104.7
5,188.0	0.50	113.10	5,182.4	78.0	91.8	0.04	0.00	4.56	-53.8	107.8
5,307.0	0.40	81.50	5,301.3	77.9	92.7	0.22	-0.08	-26.55	-103.2	63.3

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5,401.0	1.60	69.50	5,395.3	78.4	94.2	1.29	1.28	-12.77	-115.5	40.4
5,495.0	3.30	72.90	5,489.2	79.6	98.0	1.81	1.81	3.62	-115.4	47.0
5,590.0	4.00	70.80	5,584.0	81.5	103.8	0.75	0.74	-2.21	-120.0	42.2
5,684.0	4.00	67.90	5,677.8	83.8	109.9	0.22	0.00	-3.09	-123.8	35.4
5,778.0	3.90	68.30	5,771.6	86.3	115.9	0.11	-0.11	0.43	-124.0	35.7
5,873.0	3.90	65.80	5,866.4	88.8	121.9	0.18	0.00	-2.63	-125.4	29.8
5,967.0	4.20	64.80	5,960.1	91.6	127.9	0.33	0.32	-1.06	-126.2	27.3
6,061.0	4.20	64.40	6,053.9	94.5	134.1	0.03	0.00	-0.43	-127.0	26.2
6,155.0	4.40	64.40	6,147.6	97.6	140.5	0.21	0.21	0.00	-127.7	26.0
6,249.0	4.40	61.80	6,241.3	100.8	146.9	0.21	0.00	-2.77	-129.6	20.2
6,344.0	4.60	60.90	6,336.1	104.4	153.4	0.22	0.21	-0.95	-130.9	18.3
6,438.0	4.60	62.80	6,429.8	107.9	160.1	0.16	0.00	2.02	-131.4	22.7
6,533.0	4.40	61.40	6,524.5	111.4	166.7	0.24	-0.21	-1.47	-133.0	19.5
6,627.0	3.50	70.40	6,618.2	114.1	172.6	1.16	-0.96	9.57	-128.4	39.8
6,722.0	3.70	69.70	6,713.0	116.2	178.2	0.22	0.21	-0.74	-128.5	37.4
6,816.0	3.50	70.60	6,806.9	118.2	183.7	0.22	-0.21	0.96	-127.5	38.6
6,910.0	3.50	68.10	6,900.7	120.2	189.1	0.16	0.00	-2.66	-128.4	32.2
7,004.0	3.50	70.80	6,994.5	122.2	194.4	0.18	0.00	2.87	-126.2	37.5
7,098.0	3.20	75.70	7,088.4	123.8	199.7	0.44	-0.32	5.21	-121.9	46.9
7,192.0	3.00	74.40	7,182.2	125.1	204.6	0.23	-0.21	-1.38	-121.8	42.8
7,287.0	2.80	78.30	7,277.1	126.2	209.3	0.30	-0.21	4.11	-117.2	49.4
7,381.0	2.80	77.30	7,371.0	127.2	213.8	0.05	0.00	-1.06	-116.5	45.7
7,476.0	2.60	80.80	7,465.9	128.1	218.2	0.27	-0.21	3.68	-111.8	50.9
7,570.0	2.60	87.30	7,559.8	128.5	222.4	0.31	0.00	6.91	-103.8	60.8
7,664.0	2.50	95.40	7,653.7	128.4	226.6	0.40	-0.11	8.62	-93.1	71.6
7,759.0	2.60	95.70	7,748.6	128.0	230.8	0.11	0.11	0.32	-91.5	68.6
7,853.0	2.60	70.20	7,842.5	128.5	234.9	1.22	0.00	-27.13	-109.9	20.9

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7,948.0	2.50	69.30	7,937.4	130.0	238.9	0.11	-0.11	-0.95	-108.0	18.4
8,042.0	2.30	72.20	8,031.3	131.3	242.6	0.25	-0.21	3.09	-104.6	22.9
8,137.0	2.10	75.50	8,126.3	132.3	246.1	0.25	-0.21	3.47	-100.5	27.5
8,231.0	1.90	81.70	8,220.2	133.0	249.3	0.31	-0.21	6.60	-94.2	36.3
8,325.0	1.90	86.00	8,314.1	133.3	252.4	0.15	0.00	4.57	-88.5	40.9
8,420.0	2.10	72.20	8,409.1	133.9	255.6	0.55	0.21	-14.53	-92.6	17.2
8,514.0	2.10	61.10	8,503.0	135.3	258.8	0.43	0.00	-11.81	-91.3	-1.1
8,609.0	2.10	71.50	8,598.0	136.7	261.9	0.40	0.00	10.95	-87.1	14.7
8,703.0	1.80	71.10	8,691.9	137.7	265.0	0.32	-0.32	-0.43	-84.1	13.2
8,798.0	1.80	88.70	8,786.9	138.2	267.9	0.58	0.00	18.53	-73.3	35.6
8,892.0	1.90	82.90	8,880.8	138.4	270.9	0.23	0.11	-6.17	-73.6	25.6
8,986.0	1.60	95.90	8,974.8	138.5	273.7	0.53	-0.32	13.83	-63.5	38.4
9,080.0	0.90	100.80	9,068.7	138.2	275.8	0.75	-0.74	5.21	-57.0	39.9
9,175.0	0.90	68.30	9,163.7	138.4	277.2	0.53	0.00	-34.21	-64.5	2.0
9,269.0	0.40	58.60	9,257.7	138.8	278.2	0.54	-0.53	-10.32	-58.6	-8.5
9,363.0	0.20	40.90	9,351.7	139.1	278.5	0.23	-0.21	-18.83	-47.8	-23.7
9,458.0	0.00	7.60	9,446.7	139.2	278.7	0.21	-0.21	0.00	-17.8	-43.6
9,552.0	0.40	348.50	9,540.7	139.6	278.6	0.43	0.43	0.00	-7.3	-40.2
9,646.0	0.70	288.90	9,634.7	140.1	278.0	0.64	0.32	-63.40	25.8	-22.4
9,741.0	0.90	255.30	9,729.7	140.1	276.7	0.53	0.21	-35.37	26.4	-3.3
9,835.0	0.70	223.90	9,823.7	139.5	275.6	0.50	-0.21	-33.40	17.0	8.5
9,929.0	0.70	235.50	9,917.7	138.7	274.7	0.15	0.00	12.34	10.9	4.3
10,024.0	0.70	206.60	10,012.7	137.9	274.0	0.37	0.00	-30.42	1.2	4.9
10,118.0	0.70	227.20	10,106.7	137.0	273.3	0.27	0.00	21.91	-4.3	2.7
10,212.0	1.10	236.50	10,200.7	136.1	272.1	0.45	0.43	9.89	-11.6	2.8
10,307.0	1.20	239.00	10,295.7	135.1	270.5	0.12	0.11	2.63	-19.8	2.9
10,401.0	0.70	240.00	10,389.6	134.3	269.2	0.53	-0.53	1.06	-27.7	3.0

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10,459.0	0.90	259.20	10,447.6	134.0	268.4	0.57	0.34	33.10	-29.6	12.5
10,507.0	0.90	275.00	10,495.6	134.0	267.7	0.52	0.00	32.92	-29.0	17.5
10,554.0	4.90	187.50	10,542.6	132.0	267.1	10.52	8.51	-186.17	-14.2	-32.4
10,601.0	12.00	180.30	10,589.0	125.1	266.8	15.24	15.11	-15.32	-6.1	-37.1
10,648.0	18.70	178.70	10,634.3	112.7	266.9	14.28	14.26	-3.40	-2.7	-39.9
10,696.0	22.90	178.70	10,679.2	95.7	267.3	8.75	8.75	0.00	-1.0	-42.3
10,743.0	26.90	175.70	10,721.8	75.9	268.3	8.92	8.51	-6.38	3.2	-43.8
10,791.0	31.80	175.50	10,763.6	52.5	270.1	10.21	10.21	-0.42	5.9	-44.5
10,838.0	38.70	175.50	10,802.0	25.4	272.2	14.68	14.68	0.00	7.3	-44.8
10,885.0	42.20	176.00	10,837.8	-5.0	274.5	7.48	7.45	1.06	8.0	-44.9
10,932.0	48.20	177.50	10,870.9	-38.3	276.4	12.96	12.77	3.19	8.1	-45.3
10,979.0	54.00	178.70	10,900.4	-74.8	277.6	12.50	12.34	2.55	7.4	-46.3
11,026.0	60.50	179.70	10,925.8	-114.3	278.1	13.94	13.83	2.13	5.7	-47.7
11,041.9	62.02	179.29	10,933.4	-128.2	278.2	9.84	9.58	-2.57	5.2	-48.1
HL Crossing, MD:11041.9', TVD:10933.4',N/S:-128.2', E/W:278.2', INC:62.02										
11,074.0	65.10	178.50	10,947.7	-157.0	278.8	9.84	9.59	-2.47	4.1	-48.7
11,121.0	67.70	177.50	10,966.5	-200.0	280.3	5.87	5.53	-2.13	3.3	-48.7
11,168.0	73.20	177.10	10,982.2	-244.2	282.4	11.73	11.70	-0.85	2.7	-47.9
11,215.0	77.60	177.10	10,994.1	-289.6	284.7	9.36	9.36	0.00	1.8	-46.8
11,262.0	80.80	178.00	11,002.9	-335.8	286.6	7.06	6.81	1.91	1.5	-45.7
11,309.0	83.20	179.40	11,009.4	-382.3	287.7	5.90	5.11	2.98	2.7	-45.3
11,382.0	89.60	178.50	11,014.0	-455.1	289.0	8.85	8.77	-1.23	5.7	-44.6
11,476.0	87.30	177.80	11,016.6	-549.0	292.1	2.56	-2.45	-0.74	7.4	-42.3
11,571.0	85.70	175.70	11,022.4	-643.7	297.4	2.78	-1.68	-2.21	12.4	-37.7
11,665.0	85.70	176.60	11,029.4	-737.2	303.7	0.95	0.00	0.96	18.5	-32.1
11,759.0	88.00	177.60	11,034.6	-830.9	308.5	2.67	2.45	1.06	22.7	-28.2
11,854.0	87.10	178.00	11,038.6	-925.8	312.1	1.04	-0.95	0.42	25.9	-25.3

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #501H
Project:	Lea County, NM (NAD 27 NME)	**TVD Reference:**	KB = 25' @ 3751.0usft (H&P 415)
Site:	Fruit Loop 29 State	**MD Reference:**	KB = 25' @ 3751.0usft (H&P 415)
Well:	#501H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,948.0	87.30	178.20	11,043.2	-1,019.6	315.2	0.30	0.21	0.21	29.6	-22.9
12,042.0	88.20	177.80	11,046.9	-1,113.5	318.5	1.05	0.96	-0.43	32.4	-20.4
12,136.0	88.50	177.50	11,049.6	-1,207.4	322.4	0.45	0.32	-0.32	34.2	-17.3
12,231.0	88.20	178.70	11,052.4	-1,302.3	325.5	1.30	-0.32	1.26	36.0	-14.9
12,325.0	87.10	179.00	11,056.2	-1,396.2	327.4	1.21	-1.17	0.32	39.0	-13.8
12,420.0	88.70	178.70	11,059.7	-1,491.1	329.3	1.71	1.68	-0.32	41.6	-12.7
12,514.0	89.90	177.30	11,060.8	-1,585.0	332.6	1.96	1.28	-1.49	41.6	-10.1
12,608.0	91.10	177.60	11,060.0	-1,678.9	336.8	1.32	1.28	0.32	39.8	-6.7
12,702.0	91.50	178.30	11,057.9	-1,772.8	340.1	0.86	0.43	0.74	36.6	-4.1
12,796.0	91.70	178.90	11,055.3	-1,866.8	342.4	0.67	0.21	0.64	32.9	-2.6
12,891.0	91.70	179.20	11,052.4	-1,961.7	344.0	0.32	0.00	0.32	29.0	-1.8
12,984.0	89.00	179.00	11,051.9	-2,054.7	345.5	2.91	-2.90	-0.22	27.4	-1.1
13,079.0	89.70	179.20	11,053.0	-2,149.7	347.0	0.77	0.74	0.21	27.4	-0.3
13,173.0	89.90	179.60	11,053.3	-2,243.7	347.9	0.48	0.21	0.43	26.6	-0.1
13,267.0	90.30	179.70	11,053.1	-2,337.7	348.5	0.44	0.43	0.11	25.4	-0.3
13,362.0	90.40	179.70	11,052.5	-2,432.6	349.0	0.11	0.11	0.00	23.8	-0.6
13,456.0	90.60	178.50	11,051.7	-2,526.6	350.5	1.29	0.21	-1.28	21.9	0.2
13,551.0	92.90	177.80	11,048.8	-2,621.5	353.6	2.53	2.42	-0.74	17.9	2.5
13,645.0	91.10	178.00	11,045.5	-2,715.4	357.0	1.93	-1.91	0.21	13.5	5.2
13,739.0	92.20	177.80	11,042.8	-2,809.3	360.4	1.19	1.17	-0.21	9.8	7.8
13,834.0	91.70	178.70	11,039.6	-2,904.2	363.3	1.08	-0.53	0.95	5.5	10.0
13,928.0	90.60	178.90	11,037.7	-2,998.2	365.3	1.19	-1.17	0.21	2.5	11.2
14,022.0	89.40	180.10	11,037.7	-3,092.2	366.1	1.81	-1.28	1.28	1.5	11.2
14,117.0	89.90	179.60	11,038.3	-3,187.2	366.4	0.74	0.53	-0.53	1.0	10.7
14,211.0	91.30	179.40	11,037.3	-3,281.1	367.2	1.50	1.49	-0.21	-1.1	10.8
14,305.0	89.00	179.90	11,037.1	-3,375.1	367.8	2.50	-2.45	0.53	-2.4	10.6
14,399.0	88.00	180.80	11,039.5	-3,469.1	367.2	1.43	-1.06	0.96	-1.0	9.3

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #501H
Project:	Lea County, NM (NAD 27 NME)	**TVD Reference:**	KB = 25' @ 3751.0usft (H&P 415)
Site:	Fruit Loop 29 State	**MD Reference:**	KB = 25' @ 3751.0usft (H&P 415)
Well:	#501H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,494.0	87.40	180.60	11,043.3	-3,564.0	366.0	0.67	-0.63	-0.21	1.8	7.4
14,588.0	86.90	180.10	11,048.0	-3,657.9	365.5	0.75	-0.53	-0.53	5.4	6.0
14,682.0	87.60	179.60	11,052.5	-3,751.8	365.7	0.91	0.74	-0.53	8.8	5.5
14,777.0	89.70	178.70	11,054.8	-3,846.7	367.1	2.40	2.21	-0.95	10.0	6.2
14,871.0	90.60	178.20	11,054.5	-3,940.7	369.7	1.10	0.96	-0.53	8.7	7.9
14,965.0	91.10	177.80	11,053.1	-4,034.6	372.9	0.68	0.53	-0.43	6.3	10.5
15,060.0	89.20	178.20	11,052.9	-4,129.6	376.3	2.04	-2.00	0.42	4.9	13.0
15,154.0	86.60	179.20	11,056.3	-4,223.5	378.4	2.96	-2.77	1.06	7.3	14.4
15,249.0	87.10	180.30	11,061.5	-4,318.3	378.8	1.27	0.53	1.16	11.5	14.0
15,343.0	87.80	180.80	11,065.7	-4,412.2	377.9	0.91	0.74	0.53	14.6	12.4
15,438.0	91.30	180.30	11,066.5	-4,507.2	377.0	3.72	3.68	-0.53	14.3	10.7
15,532.0	91.00	180.40	11,064.6	-4,601.2	376.4	0.34	-0.32	0.11	11.3	9.4
15,627.0	89.90	181.30	11,063.8	-4,696.2	375.0	1.50	-1.16	0.95	9.5	7.2
15,675.5	89.44	182.02	11,064.1	-4,744.7	373.6	1.77	-0.96	1.49	9.2	5.4
HL Crossing, MD:15675.5', TVD:11064.1',N/S:-4744.7', E/W:373.6', INC:89.44										
15,721.0	89.00	182.70	11,064.7	-4,790.1	371.7	1.77	-0.96	1.49	9.4	3.2
Last MWD Survey										
15,800.0	89.00	182.70	11,066.1	-4,869.0	368.0	0.00	0.00	0.00	26.1	0.4
Projection To Bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
11,041.9	10,933.4	-128.2	278.2	HL Crossing, MD:11041.9', TVD:10933.4',N/S:-128.2', E/W:278.2', INC:62.02
15,675.5	11,064.1	-4,744.7	373.6	HL Crossing, MD:15675.5', TVD:11064.1',N/S:-4744.7', E/W:373.6', INC:89.44
15,721.0	11,064.7	-4,790.1	371.7	Last MWD Survey
15,800.0	11,066.1	-4,869.0	368.0	Projection To Bit