



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Frazier 27 State Com

#703H

OH

Design: OH

PVA Report

07 August, 2017

HOBBS OCD
SEP 15 2017
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PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3542.0usft
Site:	Frazier 27 State Com	MD Reference:	KB = 25 @ 3542.0usft
Well:	#703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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	Frazier 27 State Com				
Site Position:		Northing:	435,232.00 usft	Latitude:	32° 11' 39.205 N
From:	Map	Easting:	738,287.00 usft	Longitude:	103° 33' 46.924 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	#703H					
Well Position	+N/-S	0.0 usft	Northing:	435,232.00 usft	Latitude:	32° 11' 39.205 N
	+E/-W	0.0 usft	Easting:	738,287.00 usft	Longitude:	103° 33' 46.924 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,517.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/24/2017	6.97	60.04	47,944.65518786

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	175.89	

Survey Program	Date	8/7/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
132.0	17,279.0	Intrepid MWD (OH)	MWD	MWD - Standard	

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Well:	#703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
132.0	1.00	174.96	132.0	-1.1	0.1	0.76	0.76	0.00	-1.2	0.0	
148.0	1.00	174.96	148.0	-1.4	0.1	0.00	0.00	0.00	-1.4	0.0	
159.0	1.90	155.96	159.0	-1.7	0.2	9.17	8.18	-172.73	-1.6	-0.5	
189.0	1.80	162.96	189.0	-2.6	0.5	0.82	-0.33	23.33	-2.6	-0.2	
218.0	1.60	149.96	218.0	-3.4	0.9	1.49	-0.69	-44.83	-3.4	-0.9	
246.0	1.20	162.96	246.0	-4.0	1.2	1.82	-1.43	46.43	-4.2	-0.1	
274.0	1.60	153.96	273.9	-4.6	1.4	1.63	1.43	-32.14	-4.8	-0.8	
355.0	1.10	162.96	354.9	-6.4	2.1	0.67	-0.62	11.11	-6.7	0.2	
366.0	1.30	146.96	365.9	-6.6	2.2	3.53	1.82	-145.45	-6.8	-1.7	
397.0	1.10	166.96	396.9	-7.2	2.5	1.49	-0.65	64.52	-7.6	0.8	
428.0	1.50	157.96	427.9	-7.8	2.7	1.44	1.29	-29.03	-8.3	-0.4	
460.0	0.80	152.96	459.9	-8.4	3.0	2.21	-2.19	-15.62	-8.9	-1.2	
491.0	1.40	152.96	490.9	-9.0	3.3	1.94	1.94	0.00	-9.5	-1.2	
553.0	0.80	134.96	552.9	-9.9	3.9	1.11	-0.97	-29.03	-9.8	-4.3	
584.0	1.10	159.96	583.9	-10.4	4.2	1.63	0.97	80.65	-11.2	0.4	
616.0	1.20	150.96	615.9	-11.0	4.4	0.64	0.31	-28.12	-11.7	-1.4	
679.0	0.80	167.96	678.9	-12.0	4.8	0.78	-0.63	26.98	-12.7	2.2	
771.0	0.40	96.96	770.9	-12.6	5.3	0.84	-0.43	-77.17	-6.8	-11.9	
834.0	0.20	35.96	833.9	-12.6	5.6	0.56	-0.32	-96.83	6.9	-11.9	
865.0	0.20	231.96	864.9	-12.6	5.6	1.28	0.00	-529.03	-3.4	13.3	
897.0	0.50	177.96	896.9	-12.7	5.5	1.30	0.94	-168.75	-12.9	5.1	
927.0	0.30	2.96	926.9	-12.8	5.5	2.66	-0.67	-583.33	12.5	-6.2	
958.0	0.40	36.96	957.9	-12.6	5.6	0.73	0.32	109.68	6.7	-12.1	
990.0	0.20	36.96	989.9	-12.5	5.7	0.62	-0.62	0.00	6.5	-12.1	
1,020.0	0.60	252.96	1,019.9	-12.5	5.6	2.57	1.33	-480.00	1.7	13.6	
1,052.0	0.60	291.96	1,051.8	-12.5	5.3	1.25	0.00	121.87	9.6	9.6	

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Wellbore: OH
Design: OH

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MD Reference: KB = 25 @ 3542.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)	
1,084.0	0.20	23.96	1,083.8	-12.4	5.1	2.00	-1.25	287.50	9.2	-9.7	
1,116.0	0.60	291.96	1,115.8	-12.2	5.0	2.00	1.25	-287.50	9.2	9.5	
1,147.0	0.20	48.96	1,146.8	-12.1	4.9	2.30	-1.29	377.42	4.3	-12.4	
1,179.0	0.60	357.96	1,178.8	-11.9	4.9	1.56	1.25	-159.37	12.1	-4.5	
1,243.0	0.10	199.96	1,242.8	-11.7	4.9	1.08	-0.78	-246.87	-9.3	8.6	
1,359.0	0.80	358.10	1,358.8	-10.9	4.8	0.77	0.60	136.33	11.1	-4.5	
1,544.0	1.80	0.60	1,543.8	-6.8	4.8	0.54	0.54	1.35	6.7	-4.9	
1,732.0	1.50	349.90	1,731.7	-1.4	4.4	0.23	-0.16	-5.69	2.1	-4.1	
1,919.0	1.60	342.50	1,918.6	3.5	3.2	0.12	0.05	-3.96	-2.4	-4.1	
2,107.0	0.40	80.10	2,106.6	6.1	3.1	0.90	-0.64	51.91	-4.1	5.5	
2,294.0	0.70	82.00	2,293.6	6.4	4.8	0.16	0.16	1.02	-5.7	5.7	
2,482.0	0.80	28.80	2,481.6	7.7	6.6	0.36	0.05	-28.30	-10.0	-2.1	
2,670.0	1.40	27.60	2,669.6	10.9	8.3	0.32	0.32	-0.64	-13.5	-2.3	
3,045.0	2.30	27.90	3,044.4	21.6	14.0	0.24	0.24	0.08	-25.6	-2.2	
3,233.0	3.30	19.70	3,232.1	30.0	17.5	0.57	0.53	-4.36	-28.4	-5.3	
3,422.0	4.70	22.10	3,420.7	42.3	22.3	0.75	0.74	1.27	-23.6	-1.4	
3,609.0	5.30	22.30	3,607.0	57.4	28.4	0.32	0.32	0.11	-15.6	2.0	
3,796.0	5.40	40.10	3,793.2	72.2	37.4	0.89	0.05	9.52	-7.2	5.0	
3,984.0	8.90	34.50	3,979.7	90.9	51.3	1.90	1.86	-2.98	-6.6	1.5	
4,171.0	7.60	29.70	4,164.7	113.6	65.7	0.79	-0.70	-2.57	-9.1	-0.1	
4,359.0	7.60	27.30	4,351.1	135.4	77.5	0.17	0.00	-1.28	-9.4	0.1	
4,546.0	7.30	41.40	4,536.5	155.3	91.0	0.99	-0.16	7.54	-9.0	0.6	
4,733.0	5.30	49.10	4,722.4	169.9	105.4	1.16	-1.07	4.12	-6.2	-4.6	
4,919.0	8.10	61.70	4,907.1	181.7	123.5	1.69	1.51	6.77	-7.8	-14.0	
5,107.0	8.90	30.10	5,093.1	200.6	142.4	2.49	0.43	-16.81	-0.7	-23.0	
5,296.0	7.40	23.60	5,280.2	224.4	154.6	0.93	-0.79	-3.44	-0.3	-21.9	
5,483.0	8.70	27.80	5,465.4	248.0	166.1	0.76	0.70	2.25	-3.7	-20.0	

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5,671.0	8.70	25.50	5,651.2	273.4	178.8	0.19	0.00	-1.22	-6.9	-18.8	
5,859.0	8.70	27.10	5,837.1	298.9	191.4	0.13	0.00	0.85	-11.4	-16.9	
6,047.0	8.00	27.20	6,023.1	323.1	203.9	0.37	-0.37	0.05	-14.2	-15.7	
6,235.0	6.90	26.90	6,209.5	344.9	215.0	0.59	-0.59	-0.16	-14.0	-14.5	
6,423.0	6.70	26.40	6,396.2	364.7	224.9	0.11	-0.11	-0.27	-11.6	-13.2	
6,611.0	9.10	31.80	6,582.4	387.2	237.7	1.33	1.28	2.87	-14.1	-11.8	
6,798.0	8.40	29.00	6,767.2	411.7	252.1	0.44	-0.37	-1.50	-17.6	-12.7	
6,987.0	7.30	27.40	6,954.4	434.5	264.3	0.59	-0.58	-0.85	-18.4	-12.5	
7,174.0	7.60	25.10	7,139.8	456.2	275.0	0.23	0.16	-1.23	-17.8	-11.6	
7,361.0	7.10	23.70	7,325.3	478.0	284.9	0.28	-0.27	-0.75	-17.2	-9.7	
7,549.0	6.40	15.70	7,512.0	498.7	292.4	0.62	-0.37	-4.26	-16.1	-8.1	
7,737.0	3.80	2.90	7,699.2	515.0	295.5	1.50	-1.38	-6.81	-20.6	-8.8	
7,924.0	1.10	298.80	7,886.1	522.1	294.3	1.85	-1.44	-34.28	-5.6	-26.9	
8,112.0	1.00	257.90	8,074.0	522.6	291.1	0.39	-0.05	-21.76	10.4	-25.2	
8,299.0	0.70	260.10	8,261.0	522.1	288.4	0.16	-0.16	1.18	6.6	-25.5	
8,487.0	0.70	280.60	8,449.0	522.1	286.1	0.13	0.00	10.90	-5.0	-25.8	
8,676.0	1.30	235.70	8,638.0	521.1	283.2	0.50	0.32	-23.76	11.8	-22.6	
8,862.0	0.80	250.50	8,823.9	519.5	280.2	0.30	-0.27	7.96	2.3	-24.3	
9,050.0	1.10	265.90	9,011.9	518.9	277.2	0.21	0.16	8.19	-7.3	-23.7	
9,226.0	0.90	270.60	9,187.9	518.8	274.1	0.12	-0.11	2.67	-12.3	-22.9	
9,413.0	1.50	261.90	9,374.9	518.5	270.3	0.33	0.32	-4.65	-12.6	-24.7	
9,601.0	0.80	139.80	9,562.8	517.1	268.7	1.09	-0.37	-64.95	27.6	0.3	
9,789.0	0.80	119.60	9,750.8	515.5	270.7	0.15	0.00	-10.74	23.3	9.4	
9,977.0	1.10	232.90	9,938.8	513.7	270.4	0.85	0.16	60.27	-1.8	-23.9	
10,164.0	1.20	219.60	10,125.8	511.1	267.7	0.15	0.05	-7.11	0.0	-24.1	
10,351.0	0.20	15.10	10,312.7	509.9	266.5	0.74	-0.53	83.16	-8.5	22.7	
10,538.0	0.70	71.40	10,499.7	510.6	267.7	0.33	0.27	30.11	12.9	20.0	

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10,726.0	0.90	141.30	10,687.7	509.8	269.7	0.50	0.11	37.18	21.3	-4.1	
10,914.0	3.00	253.80	10,875.6	507.3	265.9	1.83	1.12	59.84	-16.3	-16.8	
11,102.0	1.20	226.10	11,063.5	504.6	259.7	1.07	-0.96	-14.73	-13.0	-24.7	
11,290.0	1.20	199.50	11,251.5	501.3	257.7	0.29	0.00	-14.15	-4.3	-28.8	
11,476.0	1.10	223.70	11,437.4	498.2	255.8	0.26	-0.05	13.01	-19.3	-23.7	
11,663.0	0.80	320.00	11,624.4	497.9	253.7	0.76	-0.16	51.50	-22.6	23.5	
11,804.0	1.20	282.30	11,765.4	499.0	251.6	0.53	0.28	-26.74	-34.5	4.2	
11,953.0	0.90	261.50	11,914.4	499.2	248.9	0.32	-0.20	-13.96	-36.4	-8.8	
12,047.0	5.80	183.50	12,008.2	494.3	247.9	6.04	5.21	-82.98	-3.8	-38.2	
12,094.0	14.90	175.20	12,054.4	485.9	248.3	19.57	19.36	-17.66	-5.2	-38.5	
12,141.0	22.90	170.10	12,098.8	470.8	250.4	17.36	17.02	-10.85	-11.3	-38.4	
12,188.0	26.60	170.00	12,141.5	451.5	253.8	7.87	7.87	-0.21	-21.1	-36.7	
12,235.0	31.20	173.10	12,182.6	429.0	257.1	10.29	9.79	6.60	-31.3	-33.2	
12,282.0	37.00	175.30	12,221.5	402.8	259.7	12.61	12.34	4.68	-40.1	-30.1	
12,329.0	40.70	175.30	12,258.1	373.4	262.1	7.87	7.87	0.00	-46.7	-28.0	
12,376.0	41.30	174.00	12,293.6	342.7	265.0	2.22	1.28	-2.77	-49.6	-26.1	
12,422.0	44.30	174.00	12,327.4	311.6	268.2	6.52	6.52	0.00	-49.4	-22.7	
12,469.0	49.40	176.90	12,359.5	277.5	270.9	11.75	10.85	6.17	-47.9	-18.3	
12,515.0	51.70	177.10	12,388.7	242.0	272.8	5.01	5.00	0.43	-43.7	-16.4	
12,541.2	54.99	177.45	12,404.4	221.0	273.8	12.60	12.55	1.32	-40.5	-15.3	
HL Crossing, MD:12541.2', TVD:12404.4', N/S:221.0', E/W:273.8', INC:54.99											
12,562.0	57.60	177.70	12,415.9	203.7	274.5	12.60	12.55	1.22	-37.8	-14.5	
12,626.0	62.80	178.00	12,447.7	148.2	276.6	8.14	8.12	0.47	-28.0	-12.6	
12,673.0	65.80	179.20	12,468.1	105.9	277.6	6.78	6.38	2.55	-18.4	-11.7	
12,720.0	70.20	179.90	12,485.7	62.3	278.0	9.46	9.36	1.49	-7.2	-11.5	
12,767.0	75.30	179.90	12,499.6	17.5	278.0	10.85	10.85	0.00	4.4	-11.7	
12,814.0	80.00	179.40	12,509.7	-28.4	278.3	10.05	10.00	-1.06	14.9	-11.8	

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12,860.0	85.80	179.50	12,515.4	-74.1	278.8	12.61	12.61	0.22	21.1	-11.6	
12,907.0	92.20	178.00	12,516.2	-121.0	279.8	13.99	13.62	-3.19	22.4	-10.9	
13,000.0	92.60	177.60	12,512.3	-213.9	283.4	0.61	0.43	-0.43	19.3	-8.0	
13,094.0	92.80	177.00	12,507.8	-307.6	287.8	0.67	0.21	-0.64	15.8	-4.3	
13,187.0	91.60	176.40	12,504.3	-400.4	293.1	1.44	-1.29	-0.65	13.1	0.4	
13,281.0	91.30	179.90	12,501.9	-494.3	296.2	3.74	-0.32	3.72	11.6	2.7	
13,374.0	91.60	181.00	12,499.5	-587.3	295.4	1.23	0.32	1.18	10.1	1.3	
13,468.0	92.10	180.70	12,496.5	-681.2	294.0	0.62	0.53	-0.32	7.9	-0.8	
13,561.0	94.00	177.70	12,491.6	-774.1	295.3	3.81	2.04	-3.23	3.8	-0.1	
13,655.0	93.40	177.20	12,485.5	-867.8	299.5	0.83	-0.64	-0.53	-1.3	3.4	
13,749.0	93.80	178.30	12,479.6	-961.5	303.2	1.24	0.43	1.17	-6.4	6.4	
13,843.0	90.80	177.90	12,475.8	-1,055.4	306.3	3.22	-3.19	-0.43	-9.3	8.8	
13,937.0	89.10	176.20	12,475.9	-1,149.3	311.1	2.56	-1.81	-1.81	-8.3	12.9	
14,031.0	92.60	176.20	12,474.5	-1,243.0	317.4	3.72	3.72	0.00	-8.8	18.5	
14,124.0	92.90	178.40	12,470.0	-1,335.8	321.7	2.38	0.32	2.37	-12.4	22.2	
14,218.0	91.90	179.60	12,466.1	-1,429.7	323.4	1.66	-1.06	1.28	-15.5	23.2	
14,312.0	90.10	179.10	12,464.5	-1,523.7	324.4	1.99	-1.91	-0.53	-16.3	23.5	
14,406.0	90.90	179.50	12,463.6	-1,617.7	325.6	0.95	0.85	0.43	-16.2	24.0	
14,500.0	84.50	179.90	12,467.4	-1,711.6	326.1	6.82	-6.81	0.43	-11.5	23.8	
14,594.0	85.90	180.20	12,475.3	-1,805.2	326.0	1.52	1.49	0.32	-2.8	23.0	
14,687.0	87.00	180.70	12,481.0	-1,898.0	325.3	1.30	1.18	0.54	3.8	21.6	
14,781.0	93.00	178.40	12,481.0	-1,992.0	326.0	6.84	6.38	-2.45	4.7	21.7	
14,874.0	91.50	177.10	12,477.4	-2,084.8	329.7	2.13	-1.61	-1.40	1.9	24.6	
14,968.0	91.30	177.40	12,475.1	-2,178.7	334.2	0.38	-0.21	0.32	0.5	28.4	
15,061.0	91.60	178.60	12,472.7	-2,271.6	337.4	1.33	0.32	1.29	-1.0	31.0	
15,155.0	90.50	182.30	12,471.0	-2,365.6	336.7	4.11	-1.17	3.94	-1.9	29.5	
15,248.0	91.60	181.70	12,469.3	-2,458.5	333.4	1.35	1.18	-0.65	-2.7	25.6	

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Frazier 27 State Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3542.0usft
 MD Reference: KB = 25 @ 3542.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
15,342.0	88.80	183.10	12,469.0	-2,552.4	329.5	3.33	-2.98	1.49	-2.1	21.0
15,435.0	89.50	183.10	12,470.4	-2,645.3	324.5	0.75	0.75	0.00	0.2	15.2
15,528.0	87.80	181.50	12,472.6	-2,738.2	320.7	2.51	-1.83	-1.72	3.2	10.8
15,622.0	89.50	180.60	12,474.8	-2,832.1	319.0	2.05	1.81	-0.96	6.3	8.4
15,715.0	87.30	179.90	12,477.4	-2,925.1	318.6	2.48	-2.37	-0.75	9.8	7.3
15,809.0	91.00	177.80	12,478.8	-3,019.0	320.5	4.53	3.94	-2.23	11.9	8.5
15,903.0	92.00	177.80	12,476.3	-3,112.9	324.1	1.06	1.06	0.00	8.8	11.4
15,997.0	91.90	181.40	12,473.1	-3,206.8	324.8	3.83	-0.11	3.83	5.0	11.3
16,090.0	91.60	180.70	12,470.3	-3,299.8	323.1	0.82	-0.32	-0.75	1.5	8.9
16,184.0	91.90	181.30	12,467.4	-3,393.7	321.4	0.71	0.32	0.64	-2.0	6.6
16,279.0	92.40	179.30	12,463.8	-3,488.6	320.9	2.17	0.53	-2.11	-6.2	5.4
16,372.0	89.50	180.00	12,462.3	-3,581.6	321.5	3.21	-3.12	0.75	-8.4	5.3
16,466.0	89.30	180.10	12,463.3	-3,675.6	321.4	0.24	-0.21	0.11	-8.1	4.5
16,560.0	89.40	181.10	12,464.3	-3,769.6	320.4	1.07	0.11	1.06	-7.7	2.8
16,653.0	89.30	181.70	12,465.4	-3,862.6	318.1	0.65	-0.11	0.65	-7.2	-0.1
16,747.0	88.50	181.60	12,467.2	-3,956.5	315.4	0.86	-0.85	-0.11	-6.1	-3.5
16,840.0	88.40	181.40	12,469.7	-4,049.4	313.0	0.24	-0.11	-0.22	-4.2	-6.7
16,934.0	88.10	181.10	12,472.6	-4,143.4	311.0	0.45	-0.32	-0.32	-2.0	-9.4
17,028.0	90.40	180.50	12,473.8	-4,237.4	309.6	2.53	2.45	-0.64	-1.4	-11.4
17,121.0	91.30	180.30	12,472.4	-4,330.3	309.0	0.99	0.97	-0.22	-3.4	-12.8
17,187.7	90.81	180.30	12,471.2	-4,397.0	308.6	0.73	-0.73	0.00	-5.1	-13.6
HL Crossing, MD:17187.7', TVD:12471.2',N/S:-4397.0', E/W:308.6', INC:90.81										
17,217.0	90.60	180.30	12,470.8	-4,426.3	308.5	0.73	-0.73	0.00	-5.7	-14.0
Final MWD Survey (MD=17217.0')										
17,279.0	90.60	180.30	12,470.2	-4,488.3	308.2	0.00	0.00	0.00	-6.7	-14.8
Final Projection to Bit (MD=17279.0')										

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Frazier 27 State Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3542.0usft
MD Reference: KB = 25 @ 3542.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,541.2	12,404.4	221.0	273.8	HL Crossing, MD:12541.2', TVD:12404.4', N/S:221.0', E/W:273.8', INC:54.99
17,187.7	12,471.2	-4,397.0	308.6	HL Crossing, MD:17187.7', TVD:12471.2', N/S:-4397.0', E/W:308.6', INC:90.81
17,217.0	12,470.8	-4,426.3	308.5	Final MWD Survey (MD=17217.0')
17,279.0	12,470.2	-4,488.3	308.2	Final Projection to Bit (MD=17279.0')

Checked By: _____ Approved By: _____ Date: _____