



HOBBS OCD
JUL 19 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Antietam 9 Fed Com

#714H

OH

Design: OH

Midland PVA

18 March, 2019



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Antietam 9 Fed Com Well: #714H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well #714H KB = 25 @ 3442.0usft KB = 25 @ 3442.0usft Grid Minimum Curvature EDM 5000.14	
Project Lea County, NM (NAD 83 NME)					
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone		System Datum:		Mean Sea Level	
Site Antietam 9 Fed Com					
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 419,815.00 usft Easting: 774,698.00 usft Spot Radius: 13-3/16 "		Latitude: 32° 8' 6.852 N Longitude: 103° 34' 45.452 W Grid Convergence: 0.40 °	
Well #714H					
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 419,841.00 usft Easting: 777,305.00 usft Wellhead Elevation: usft		Latitude: 32° 8' 58.022 N Longitude: 103° 34' 15.201 W Ground Level: 3,417.0 usft	
Wellbore OH					
Magnetics					
Model Name IGRF2015		Sample Date 7/15/2018		Declination (°) 6.83	
Dip Angle (°) 59.98		Field Strength (nT) 47,783.31527565			
Design OH					
Audit Notes:					
Version: 1.0		Phase: ACTUAL		Tie On Depth: 0.0	
Vertical Section:					
Depth From (TVD) (usft) 0.0		+N-S (usft) 0.0		+E-W (usft) 0.0	
Direction (°) 181.38					
Survey Program					
Date 3/18/2019					
From (usft) 147.0		To (usft) 20,078.0		Survey (Wellbore) Newsco MWD (OH)	
Tool Name MWD		Description OWSG MWD - Standard			



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #714H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#714H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	ECM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/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
147.0	1.00	185.00	147.0	-1.3	-0.1	0.88	0.88	0.00	0.0	0.0	0.0
325.0	1.40	191.00	325.0	-5.0	-0.7	0.24	0.22	3.37	0.0	0.0	0.0
508.0	1.20	201.60	507.9	-8.9	-1.8	0.17	-0.11	5.79	0.0	0.0	0.0
695.0	1.30	204.60	694.9	-12.7	-3.4	0.06	0.05	1.60	0.0	0.0	0.0
881.0	1.40	218.00	880.8	-16.4	-5.7	0.18	0.05	7.20	0.0	0.0	0.0
1,069.0	1.40	217.60	1,068.8	-20.0	-8.5	0.01	0.00	-0.21	0.0	0.0	0.0
1,169.0	1.30	209.60	1,168.7	-22.0	-9.8	0.21	-0.10	-8.00	0.0	0.0	0.0
1,332.0	2.20	20.20	1,331.7	-20.6	-9.6	2.14	0.55	104.66	-2.2	-1.6	-1.6
1,518.0	9.40	359.70	1,516.6	-2.1	-8.5	3.97	3.87	-11.02	-9.2	-7.1	-7.1
1,706.0	11.80	353.50	1,701.4	32.4	-10.7	1.41	1.28	-3.30	-19.5	-12.0	-12.0
1,893.0	12.00	354.80	1,884.4	70.7	-14.7	0.18	0.11	0.70	-29.4	-14.0	-14.0
2,080.0	12.00	353.90	2,067.3	109.4	-18.5	0.10	0.00	-0.48	-39.0	-17.2	-17.2
2,268.0	12.10	356.30	2,251.2	148.5	-21.8	0.27	0.05	1.28	-49.9	-18.3	-18.3
2,455.0	12.10	357.50	2,434.0	187.7	-24.0	0.13	0.00	0.84	-60.7	-21.1	-21.1
2,644.0	13.80	350.40	2,618.2	229.7	-28.6	1.23	0.90	-3.76	-70.5	-31.5	-31.5
2,831.0	14.20	350.50	2,799.7	274.3	-36.1	0.21	0.21	0.05	-86.9	-32.0	-32.0
3,018.0	14.10	353.60	2,981.0	319.5	-42.4	0.41	-0.05	1.66	-105.3	-26.3	-26.3
3,205.0	14.40	341.60	3,162.3	364.3	-52.3	1.58	0.16	-6.42	-114.1	-50.3	-50.3
3,393.0	14.90	345.30	3,344.2	409.8	-65.8	0.56	0.27	1.97	-135.6	-39.4	-39.4
3,580.0	14.20	347.80	3,525.2	455.5	-76.7	0.50	-0.37	1.34	-155.3	-31.7	-31.7
3,767.0	12.30	348.50	3,707.2	497.4	-85.8	1.02	-1.02	0.37	-169.5	-29.1	-29.1
3,954.0	11.20	359.10	3,890.3	535.1	-89.8	1.29	-0.59	5.67	-181.1	0.8	0.8
4,142.0	9.10	357.60	4,075.3	568.2	-90.7	1.13	-1.12	-0.80	-185.1	-8.6	-8.6
4,330.0	7.50	358.90	4,261.4	595.4	-91.6	0.86	-0.85	0.69	-183.4	-9.1	-9.1
4,517.0	5.90	30.40	4,447.1	615.9	-87.0	2.11	-0.86	16.84	-159.5	74.2	74.2
4,611.0	5.30	32.60	4,540.7	623.7	-82.2	0.68	-0.64	2.34	-154.9	70.4	70.4



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Antietam 8 Fed Com
 Well: #714H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #714H
 TVD Reference: KB = 25 @ 3442.0usft
 MD Reference: KB = 25 @ 3442.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,788.0	5.10	7.40	4,728.9	639.2	-76.5	1.22	-0.11	-13.48	-158.4	-14.4	
4,988.0	5.50	357.50	4,914.1	656.5	-75.8	0.53	0.21	-5.27	-141.6	-46.8	
5,173.0	5.50	351.80	5,100.3	674.3	-77.4	0.29	0.00	-3.05	-118.7	-63.2	
5,359.0	7.80	347.20	5,285.1	695.1	-81.4	1.16	1.13	-2.47	-96.9	-71.6	
5,547.0	8.20	349.70	5,471.3	720.4	-86.6	0.37	0.32	1.33	-87.5	-67.2	
5,734.0	8.60	338.90	5,656.3	746.6	-94.0	0.87	0.21	-5.78	-63.4	-77.9	
5,922.0	9.50	331.90	5,841.9	773.4	-106.4	0.76	0.48	-3.72	-46.7	-75.3	
6,110.0	9.00	332.20	6,027.5	800.1	-120.5	0.27	-0.27	0.16	-40.8	-63.9	
6,296.0	8.50	330.90	6,211.3	825.0	-134.0	0.29	-0.27	-0.70	-31.8	-53.3	
6,483.0	8.90	331.20	6,396.2	849.7	-147.7	0.22	0.21	0.16	-24.2	-41.4	
6,670.0	8.80	331.70	6,581.0	875.0	-161.5	0.07	-0.05	0.27	-17.1	-29.7	
6,857.0	8.10	344.30	6,765.9	900.3	-171.8	1.06	-0.37	6.74	-12.4	-19.0	
7,045.0	7.40	351.70	6,952.2	925.0	-177.1	0.65	-0.37	3.94	-1.8	-17.2	
7,232.0	7.10	354.20	7,137.7	948.4	-180.0	0.23	-0.16	1.34	10.5	-19.8	
7,420.0	5.80	354.10	7,324.5	969.4	-182.2	0.69	-0.69	-0.05	16.1	-22.1	
7,607.0	5.30	351.70	7,510.7	987.4	-184.4	0.29	-0.27	-1.28	13.3	-22.4	
7,795.0	4.20	346.20	7,698.0	1,002.7	-187.3	0.63	-0.59	-2.83	2.6	-21.7	
7,982.0	2.20	350.20	7,884.7	1,012.9	-189.5	1.06	-1.07	2.14	-9.3	-21.4	
8,169.0	1.80	349.50	8,071.6	1,019.0	-190.6	0.32	-0.32	-0.37	-15.3	-21.5	
8,356.0	1.20	325.80	8,258.6	1,023.1	-192.2	0.37	-0.21	-12.67	-9.7	-26.9	
8,449.0	1.10	309.80	8,351.5	1,024.5	-193.4	0.36	-0.11	-17.20	-3.7	-28.8	
8,636.0	0.90	286.00	8,538.5	1,026.1	-196.2	0.24	-0.11	-12.73	5.1	-28.6	
8,823.0	1.00	265.50	8,725.5	1,026.4	-199.3	0.19	0.05	-10.96	11.8	-25.5	
9,009.0	1.20	252.70	8,911.4	1,025.6	-202.7	0.17	0.11	-6.88	13.6	-22.6	
9,196.0	1.40	246.70	9,098.4	1,024.2	-206.7	0.13	0.11	-3.21	11.7	-21.3	
9,384.0	1.40	257.20	9,286.3	1,022.7	-211.1	0.14	0.00	5.59	3.0	-22.6	
9,571.0	2.00	281.90	9,473.3	1,022.9	-216.5	0.50	0.32	13.21	-12.0	-20.9	



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Site:	Antietam 9 Fed Corn	MD Reference:	KB = 25 @ 3442.0usft
Well:	#714H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
9,759.0	2.60	284.70	9,661.1	1,024.7	-223.8	0.32	0.32	1.49	-20.6	-20.1	
9,946.0	2.50	252.00	9,847.9	1,024.5	-231.8	0.77	-0.05	-17.49	-14.1	-30.3	
10,133.0	2.20	229.40	10,034.8	1,020.9	-238.4	0.52	-0.16	-12.09	-8.7	-35.0	
10,320.0	3.20	216.20	10,221.6	1,014.3	-244.2	0.63	0.53	-7.06	-9.2	-36.9	
10,507.0	2.70	218.30	10,408.3	1,006.7	-250.0	0.27	-0.27	1.12	-20.2	-36.3	
10,694.0	1.70	233.20	10,595.2	1,001.6	-255.0	0.61	-0.53	7.97	-35.9	-28.8	
10,880.0	0.80	255.40	10,781.1	999.6	-258.4	0.54	-0.48	11.94	-48.0	-12.1	
11,068.0	1.20	254.70	10,969.1	998.7	-261.6	0.21	0.21	-0.37	-51.1	-12.7	
11,255.0	1.00	201.80	11,156.1	996.7	-264.1	0.53	-0.11	-28.29	-23.5	-48.9	
11,442.0	1.60	108.40	11,343.0	994.4	-262.2	1.04	0.32	-49.95	48.7	-22.2	
11,629.0	0.80	314.20	11,530.0	994.4	-260.7	1.25	-0.43	-82.46	-33.2	40.0	
11,744.0	1.60	246.90	11,645.0	994.4	-262.7	1.29	0.70	-56.52	-51.6	-15.9	
11,840.0	1.60	218.60	11,741.0	992.8	-264.8	0.81	0.00	-29.46	-40.4	-39.1	
11,934.0	3.00	287.40	11,834.9	992.5	-268.0	3.03	1.49	73.19	-54.0	24.8	
12,028.0	3.50	198.30	11,928.8	990.5	-271.2	4.86	0.53	-94.79	-20.2	-58.9	
12,121.0	16.00	181.90	12,020.3	974.9	-272.6	13.63	13.44	-17.63	5.3	-64.0	
12,215.0	23.70	179.30	12,108.6	943.1	-272.8	8.24	6.19	-2.77	14.6	-64.0	
12,309.0	25.30	180.10	12,194.2	904.1	-272.6	1.74	1.70	0.85	27.1	-64.6	
12,355.0	26.90	177.90	12,235.1	883.1	-272.2	8.12	7.83	-4.76	39.0	-63.3	
12,401.0	34.90	174.10	12,274.2	858.9	-270.4	13.75	13.04	-8.26	51.6	-59.0	
12,448.0	42.40	170.90	12,310.8	829.8	-266.5	16.51	15.96	-6.61	61.1	-52.5	
12,495.0	60.20	169.40	12,343.3	796.4	-260.7	16.75	16.60	-3.19	66.0	-45.9	
12,542.0	68.00	171.70	12,370.8	758.9	-254.5	17.06	16.60	4.89	66.0	-42.1	
12,588.0	63.40	171.60	12,393.3	719.2	-248.6	11.74	11.74	-0.22	65.3	-37.1	
12,635.0	72.30	172.30	12,411.0	676.1	-242.6	18.99	18.94	1.49	61.9	-32.6	
12,682.0	82.10	172.60	12,421.4	630.8	-236.5	20.86	20.85	0.64	54.5	-28.2	
12,775.0	91.40	179.00	12,426.7	538.3	-229.8	12.13	10.00	6.88	34.8	-24.0	



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Well:	#714H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azd (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,888.0	92.00	179.40	12,423.9	445.4	-228.5	0.78	0.65	0.43	22.3	-23.0	
12,962.0	89.90	180.50	12,422.4	351.4	-228.4	2.52	-2.23	1.17	20.4	-23.5	
13,055.0	90.90	180.80	12,421.7	258.4	-229.5	1.12	1.08	0.32	19.8	-25.1	
13,149.0	92.00	180.70	12,419.4	164.4	-230.7	1.18	1.17	-0.11	17.4	-27.0	
13,242.0	90.40	178.90	12,417.4	71.5	-230.4	2.59	-1.72	-1.84	15.4	-27.2	
13,338.0	89.10	178.20	12,417.8	-22.5	-228.0	1.57	-1.38	-0.74	15.7	-25.4	
13,429.0	89.80	177.70	12,418.7	-115.4	-224.7	0.92	0.75	-0.54	15.2	-22.7	
13,522.0	90.00	178.20	12,418.9	-208.4	-221.3	0.58	0.22	0.54	13.8	-20.0	
13,617.0	90.30	178.40	12,418.6	-303.3	-218.5	0.38	0.32	0.21	12.1	-17.7	
13,710.0	90.10	177.80	12,418.3	-398.3	-215.4	0.88	-0.22	-0.65	10.3	-15.2	
13,804.0	90.70	179.50	12,417.7	-490.3	-213.2	1.82	0.64	1.81	8.1	-13.8	
13,898.0	88.90	179.80	12,418.0	-584.3	-212.6	1.94	-1.91	0.32	7.0	-13.8	
13,992.0	88.20	179.90	12,420.4	-678.2	-212.4	0.75	-0.74	0.11	8.0	-14.0	
14,085.0	88.60	180.00	12,423.0	-771.2	-212.3	0.44	0.43	0.11	9.6	-14.5	
14,179.0	88.60	180.20	12,425.3	-865.2	-212.5	0.21	0.00	0.21	11.0	-15.3	
14,272.0	89.20	181.10	12,427.0	-959.1	-213.6	1.16	0.85	0.97	11.8	-16.9	
14,366.0	90.20	181.40	12,427.5	-1,052.1	-215.6	1.11	1.06	0.32	11.3	-19.5	
14,460.0	89.60	180.70	12,427.7	-1,146.1	-217.3	0.98	-0.64	-0.74	10.5	-21.9	
14,553.0	88.60	179.70	12,429.2	-1,239.1	-217.6	1.52	-1.08	-1.08	11.0	-22.8	
14,647.0	89.70	181.40	12,430.5	-1,333.1	-218.5	2.15	1.17	1.81	11.5	-24.3	
14,740.0	88.40	180.40	12,433.7	-1,428.0	-220.0	3.71	-3.55	-1.08	13.7	-26.3	
14,834.0	88.60	178.50	12,439.5	-1,519.8	-219.1	2.03	0.21	-2.02	18.5	-26.0	
14,928.0	88.40	177.10	12,443.6	-1,613.6	-215.5	2.42	1.91	-1.49	21.6	-23.0	
15,021.0	89.30	177.20	12,445.4	-1,706.5	-210.9	0.97	0.97	0.11	22.5	-18.9	
15,115.0	89.10	177.80	12,446.7	-1,800.4	-206.8	0.67	-0.21	0.84	22.9	-15.4	
15,208.0	90.60	177.70	12,447.0	-1,893.3	-203.1	1.62	1.61	-0.11	22.2	-12.4	
15,301.0	91.70	177.70	12,445.1	-1,986.2	-199.4	1.18	1.18	0.00	19.3	-9.2	



Midland PVA

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 Site: Antietam 9 Fed Com
 Well: #714H
 Wellbore: OH
 Design: OH

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15,395.0	89.10	179.20	12,444.5	-2,080.2	-196.8	3.19	-2.77	1.60	17.7	-7.3	
15,488.0	88.70	178.50	12,448.2	-2,173.1	-195.0	0.87	-0.43	-0.75	18.6	-6.0	
15,582.0	91.00	179.00	12,446.5	-2,267.1	-192.9	2.50	2.45	0.53	17.8	-4.5	
15,675.0	90.70	178.80	12,445.1	-2,360.1	-191.1	0.39	-0.32	-0.22	15.5	-3.3	
15,768.0	91.50	178.10	12,443.3	-2,453.0	-188.6	1.14	0.88	-0.75	12.8	-1.4	
15,861.0	87.70	178.40	12,444.0	-2,546.0	-185.8	4.10	-4.09	0.32	12.5	0.8	
15,954.0	87.80	178.10	12,447.6	-2,638.9	-182.9	0.34	0.11	-0.32	15.0	3.1	
16,047.0	87.40	177.70	12,451.5	-2,731.7	-179.5	0.61	-0.43	-0.43	17.6	5.9	
16,141.0	87.90	177.80	12,455.4	-2,825.6	-175.9	0.54	0.53	0.11	20.2	9.0	
16,234.0	88.10	176.80	12,458.6	-2,918.4	-171.5	1.10	0.22	-1.08	22.1	12.8	
16,328.0	90.30	180.30	12,459.9	-3,012.3	-169.1	4.40	2.34	3.72	22.2	14.6	
16,421.0	91.20	180.60	12,458.7	-3,105.3	-169.8	1.02	0.97	0.32	19.6	13.3	
16,515.0	88.90	180.70	12,458.6	-3,199.3	-170.9	2.45	-2.45	0.11	18.3	11.6	
16,608.0	88.90	180.60	12,460.4	-3,292.3	-171.9	0.11	0.00	-0.11	18.8	9.9	
16,702.0	88.30	179.90	12,462.7	-3,386.3	-172.4	0.98	-0.64	-0.74	19.7	8.9	
16,796.0	88.40	179.30	12,465.4	-3,480.2	-171.7	0.65	0.11	-0.64	21.1	9.0	
16,890.0	88.20	181.00	12,468.2	-3,574.2	-171.9	1.82	-0.21	1.81	22.6	8.2	
16,983.0	89.20	180.80	12,470.3	-3,667.1	-173.4	1.10	1.08	-0.22	23.5	6.1	
17,077.0	88.60	180.00	12,472.1	-3,761.1	-174.1	1.06	-0.64	-0.85	23.9	4.9	
17,171.0	90.30	180.80	12,473.0	-3,855.1	-174.7	2.00	1.81	0.85	23.5	3.6	
17,264.0	89.80	181.00	12,472.9	-3,948.1	-176.2	0.58	-0.54	0.22	22.2	1.6	
17,358.0	89.90	180.50	12,473.2	-4,042.1	-177.4	0.54	0.11	-0.53	21.1	-0.3	
17,452.0	89.90	182.00	12,473.3	-4,136.1	-179.5	1.60	0.00	1.60	20.3	-2.9	
17,545.0	90.20	182.50	12,473.3	-4,229.0	-183.1	0.63	0.32	0.54	19.3	-7.1	
17,639.0	89.10	180.10	12,473.8	-4,323.0	-185.2	2.81	-1.17	-2.55	18.9	-9.9	
17,733.0	89.20	180.20	12,475.2	-4,416.9	-185.5	0.15	0.11	0.11	19.3	-10.7	
17,826.0	87.20	179.20	12,478.2	-4,509.9	-185.0	2.40	-2.15	-1.08	21.3	-10.8	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Antietam 9 Fed Com
 Well: #714H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #714H
 TVD Reference: KB = 25 @ 3442.0usft
 MD Reference: KB = 25 @ 3442.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	OLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,919.0	89.70	179.40	12,480.7	-4,602.8	-183.9	2.70	2.69	0.22	22.9	-10.2	
18,012.0	91.10	179.40	12,480.0	-4,695.8	-182.9	1.51	1.51	0.00	21.3	-9.9	
18,106.0	91.40	179.20	12,478.0	-4,788.8	-181.7	0.38	0.32	-0.21	18.2	-9.3	
18,200.0	91.70	178.90	12,475.4	-4,883.8	-180.2	0.45	0.32	-0.32	14.7	-8.3	
18,293.0	91.90	179.40	12,472.5	-4,976.7	-178.8	0.58	0.22	0.54	10.9	-7.6	
18,387.0	88.50	178.50	12,473.8	-5,070.6	-177.1	5.82	-5.74	-0.96	11.5	-6.4	
18,480.0	86.50	178.50	12,479.5	-5,163.4	-174.7	0.00	0.00	0.00	16.8	-4.6	
18,574.0	87.90	179.00	12,484.1	-5,257.3	-172.6	1.58	1.49	0.53	21.1	-3.1	
18,668.0	92.40	183.30	12,483.8	-5,351.2	-174.5	6.62	4.79	4.57	20.5	-5.6	
18,761.0	92.00	180.80	12,480.3	-5,444.1	-177.8	2.72	-0.43	-2.69	16.5	-9.5	
18,856.0	91.80	179.70	12,477.1	-5,539.0	-178.2	1.18	-0.21	-1.16	13.0	-10.5	
18,950.0	92.40	179.80	12,473.7	-5,633.0	-177.8	0.65	0.64	0.11	9.2	-10.7	
19,043.0	91.30	178.60	12,470.7	-5,725.9	-176.5	1.75	-1.18	-1.29	5.8	-10.0	
19,137.0	90.80	178.70	12,469.0	-5,819.9	-174.3	0.54	-0.53	0.11	3.7	-8.4	
19,231.0	91.40	178.80	12,467.2	-5,913.8	-173.1	1.33	0.64	1.17	1.5	-7.7	
19,324.0	89.80	178.50	12,466.2	-6,006.8	-171.7	2.22	-1.72	-1.40	0.2	-6.9	
19,417.0	89.10	179.20	12,467.1	-6,099.8	-169.8	1.06	-0.75	0.75	1.4	-5.7	
19,511.0	89.50	179.40	12,468.2	-6,193.8	-168.7	0.48	0.43	0.21	3.1	-5.1	
19,605.0	87.20	179.90	12,470.9	-6,287.7	-168.1	2.50	-2.45	0.53	6.3	-5.1	
19,698.0	86.80	179.70	12,475.8	-6,380.6	-167.6	0.48	-0.43	-0.22	11.7	-5.4	
19,791.0	90.50	178.20	12,478.0	-6,473.6	-166.1	4.29	3.98	-1.61	14.4	-4.3	
19,884.0	91.10	177.80	12,476.7	-6,566.5	-162.7	0.91	0.65	-0.65	13.6	-1.5	
19,978.0	90.90	176.90	12,475.0	-6,660.4	-158.2	0.77	-0.21	-0.74	12.5	2.5	
20,020.0	91.40	176.50	12,474.2	-6,702.3	-155.8	1.52	1.19	-0.95	11.9	4.6	
20,078.0	91.40	176.50	12,472.8	-6,760.2	-152.2	0.00	0.00	0.00	10.8	7.8	

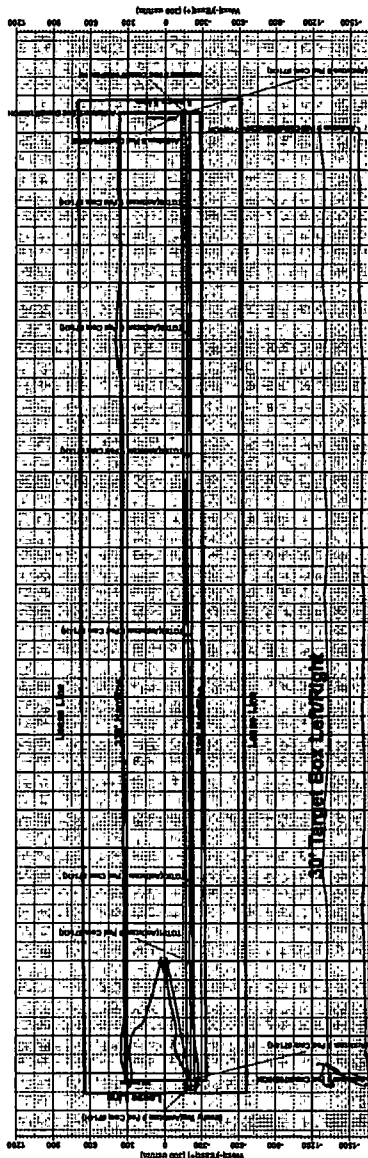
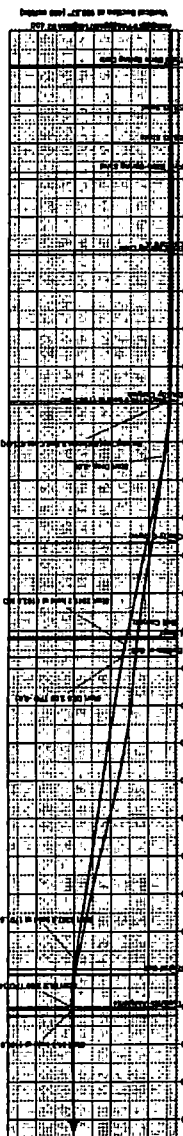
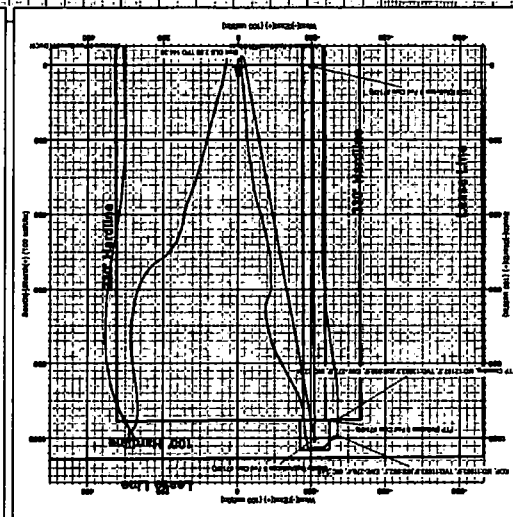
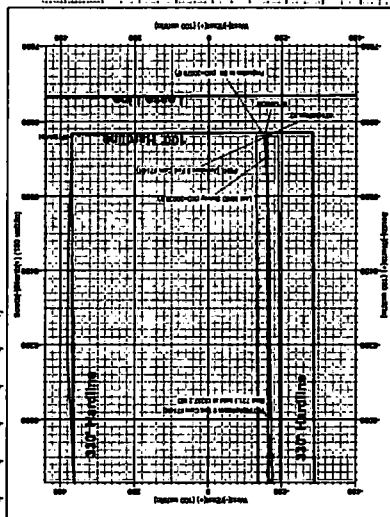
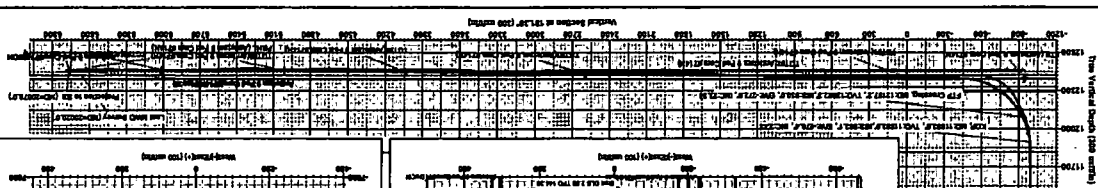


Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #714H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3442.0usft
Site:	Antietam 9 Fed Com	MD Reference:	KB = 25 @ 3442.0usft
Well:	#714H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
11,993.0	11,893.9	992.1	-270.4	KOP, MD:11993.0', TVD:11893.9', N/S:992.1', E/W:-270.4', INC:2.48
12,197.2	12,092.3	950.0	-272.8	FTP Crossing, MD:12197.2', TVD:12092.3', N/S:950.0', E/W:-272.8', INC:22.24
20,020.0	12,474.2	-6,702.3	-155.8	Last MWD Survey (MD=20020.0')
20,078.0	12,472.8	-6,760.2	-152.2	Projection to BII (MD=20078.0')

Checked By: _____	Approved By: _____	Date: _____
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[illegible]

CASING DETAILS	No casing data is available

600	MD	MD	AL	TPD	+N/-	+E/W	TRF	VB	Target
1	1,000.0	1,100.0	200.0	1,100.0	22.0	-0.0	0.00	22.2	
2	4,000.0	4,000.0	200.0	200.0	22.0	-0.0	0.00	22.8	
3	170.0	170.0	0.00	0.00	11.0	164.0	0.00	22.8	
4	4,000.0	4,000.0	200.0	200.0	11.0	11.0	0.00	410.3	
5	610.0	610.0	300.0	300.0	63.0	-120.0	2.00	433.0	
6	7,410.0	7,410.0	300.0	300.0	641.0	-197.0	0.00	437.0	
7	11,000.0	11,000.0	300.0	300.0	1,000.0	-200.0	0.00	948.0	
8	11,910.0	11,910.0	0.00	0.00	11,920.0	-10.00	0.00	948.0	Brushy Top (Antibion 8 Fed Com 8714H)
9	8,000.0	8,000.0	170.0	170.0	437.1	-200.4	10.00	422.1	
10	13,000.0	13,000.0	80.00	80.00	13,020.0	-20.00	0.00	0.0	
11	13,000.0	13,000.0	80.00	80.00	13,010.0	-10.00	0.00	660.0	
12	13,000.0	13,000.0	80.00	80.00	13,010.0	-10.00	0.00	660.0	
13	13,000.0	13,000.0	80.00	80.00	13,010.0	-10.00	0.00	660.0	
14	16,000.0	16,000.0	80.00	80.00	16,010.0	-10.00	0.00	2800.0	
15	16,000.0	16,000.0	80.00	80.00	16,010.0	-10.00	0.00	2800.0	
16	16,000.0	16,000.0	80.00	80.00	16,010.0	-10.00	0.00	2800.0	
17	17,000.0	17,000.0	80.00	80.00	17,010.0	-10.00	0.00	4050.0	
18	17,000.0	17,000.0	80.00	80.00	17,010.0	-10.00	0.00	4050.0	
19	17,000.0	17,000.0	80.00	80.00	17,010.0	-10.00	0.00	4050.0	
20	17,000.0	17,000.0	80.00	80.00	17,010.0	-10.00	0.00	4050.0	
21	17,000.0	17,000.0	80.00	80.00	17,010.0	-10.00	0.00	4050.0	
22	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
23	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
24	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
25	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
26	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
27	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
28	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
29	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
30	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
31	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
32	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
33	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
34	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
35	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
36	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
37	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
38	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
39	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
40	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
41	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
42	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
43	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
44	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
45	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
46	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
47	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
48	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
49	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	
50	20,000.0	20,000.0	90.00	90.00	20,010.0	-10.00	0.00	8702.0	

Well Details: 8714H	KB = 25 @ 3442.025ft Eastings 777305.00 Northings 418941.00	12° 5' 58.022 N Longitudes 103° 34' 18.201 W
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PROJECT DETAILS: Las County NM (NAD 83 NME)	Geodetic System US State Plane 1983 Datum North American Datum 1983 Ellipsoid GRS 1980 Zone New Mexico Eastern Zone System Datum Mean Sea Level
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Lea County, NM (NAD 83 NME)
Antietam 9 Fed Com #714H
Plan #2

To convert a Marginal Division to a Third Division, Subtract 0.43"
To convert a Third Division to a First Division, Add 0.43"