





HOBBS OCD

NOV 28 2016

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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Antietam 9 Fed Com

#703H

OH

Plan: Plan #0.1

Standard Planning Report

09 August, 2016

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Antietam 9 Fed Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 Antietam 9 Fed Com

Site Position: Northing: 414,873.00 usft Latitude: 32° 8' 17.894 N
From: Map Easting: 736,116.00 usft Longitude: 103° 34' 13.866 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41 °

Well #703H

Well Position +N/-S 4,883.0 usft Northing: 419,756.00 usft Latitude: 32° 9' 6.396 N
+E/-W -2,604.0 usft Easting: 733,512.00 usft Longitude: 103° 34' 43.752 W
Position Uncertainty 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,440.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/8/2016	7.04	60.01	47,982

Design Plan #0.1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	182.31

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,777.0	2.77	288.23	4,776.9	2.1	-6.4	1.00	1.00	0.00	288.23	
11,954.2	2.77	288.23	11,945.7	110.6	-335.8	0.00	0.00	0.00	0.00	
12,711.5	90.00	179.60	12,430.0	-367.0	-354.6	12.00	11.52	-14.34	-108.62	
19,871.8	90.00	179.60	12,430.0	-7,527.0	-304.0	0.00	0.00	0.00	0.00	PBHL(Ant 9 Fed #703



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Survey Calculation Method: Minimum Curvature

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	288.23	4,600.0	0.3	-0.8	-0.2	1.00	1.00	0.00
4,700.0	2.00	288.23	4,700.0	1.1	-3.3	-1.0	1.00	1.00	0.00
4,777.0	2.77	288.23	4,776.9	2.1	-6.4	-1.8	1.00	1.00	0.00
4,800.0	2.77	288.23	4,799.9	2.4	-7.4	-2.1	0.00	0.00	0.00
4,900.0	2.77	288.23	4,899.7	4.0	-12.0	-3.5	0.00	0.00	0.00
5,000.0	2.77	288.23	4,999.6	5.5	-16.6	-4.8	0.00	0.00	0.00
5,100.0	2.77	288.23	5,099.5	7.0	-21.2	-6.1	0.00	0.00	0.00
5,200.0	2.77	288.23	5,199.4	8.5	-25.8	-7.4	0.00	0.00	0.00



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Planned 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)
5,300.0	2.77	288.23	5,299.3	10.0	-30.4	-8.8	0.00	0.00	0.00
5,400.0	2.77	288.23	5,399.2	11.5	-35.0	-10.1	0.00	0.00	0.00
5,500.0	2.77	288.23	5,499.0	13.0	-39.5	-11.4	0.00	0.00	0.00
5,600.0	2.77	288.23	5,598.9	14.5	-44.1	-12.7	0.00	0.00	0.00
5,700.0	2.77	288.23	5,698.8	16.0	-48.7	-14.1	0.00	0.00	0.00
5,800.0	2.77	288.23	5,798.7	17.6	-53.3	-15.4	0.00	0.00	0.00
5,900.0	2.77	288.23	5,898.6	19.1	-57.9	-16.7	0.00	0.00	0.00
6,000.0	2.77	288.23	5,998.5	20.6	-62.5	-18.0	0.00	0.00	0.00
6,100.0	2.77	288.23	6,098.3	22.1	-67.1	-19.4	0.00	0.00	0.00
6,200.0	2.77	288.23	6,198.2	23.6	-71.7	-20.7	0.00	0.00	0.00
6,300.0	2.77	288.23	6,298.1	25.1	-76.3	-22.0	0.00	0.00	0.00
6,400.0	2.77	288.23	6,398.0	26.6	-80.8	-23.3	0.00	0.00	0.00
6,500.0	2.77	288.23	6,497.9	28.1	-85.4	-24.7	0.00	0.00	0.00
6,600.0	2.77	288.23	6,597.8	29.7	-90.0	-26.0	0.00	0.00	0.00
6,700.0	2.77	288.23	6,697.6	31.2	-94.6	-27.3	0.00	0.00	0.00
6,800.0	2.77	288.23	6,797.5	32.7	-99.2	-28.6	0.00	0.00	0.00
6,900.0	2.77	288.23	6,897.4	34.2	-103.8	-30.0	0.00	0.00	0.00
7,000.0	2.77	288.23	6,997.3	35.7	-108.4	-31.3	0.00	0.00	0.00
7,100.0	2.77	288.23	7,097.2	37.2	-113.0	-32.6	0.00	0.00	0.00
7,200.0	2.77	288.23	7,197.1	38.7	-117.6	-34.0	0.00	0.00	0.00
7,300.0	2.77	288.23	7,296.9	40.2	-122.2	-35.3	0.00	0.00	0.00
7,400.0	2.77	288.23	7,396.8	41.7	-126.7	-36.6	0.00	0.00	0.00
7,500.0	2.77	288.23	7,496.7	43.3	-131.3	-37.9	0.00	0.00	0.00
7,600.0	2.77	288.23	7,596.6	44.8	-135.9	-39.3	0.00	0.00	0.00
7,700.0	2.77	288.23	7,696.5	46.3	-140.5	-40.6	0.00	0.00	0.00
7,800.0	2.77	288.23	7,796.4	47.8	-145.1	-41.9	0.00	0.00	0.00
7,900.0	2.77	288.23	7,896.2	49.3	-149.7	-43.2	0.00	0.00	0.00
8,000.0	2.77	288.23	7,996.1	50.8	-154.3	-44.6	0.00	0.00	0.00
8,100.0	2.77	288.23	8,096.0	52.3	-158.9	-45.9	0.00	0.00	0.00
8,200.0	2.77	288.23	8,195.9	53.8	-163.5	-47.2	0.00	0.00	0.00
8,300.0	2.77	288.23	8,295.8	55.4	-168.0	-48.5	0.00	0.00	0.00
8,400.0	2.77	288.23	8,395.7	56.9	-172.6	-49.9	0.00	0.00	0.00
8,500.0	2.77	288.23	8,495.5	58.4	-177.2	-51.2	0.00	0.00	0.00
8,600.0	2.77	288.23	8,595.4	59.9	-181.8	-52.5	0.00	0.00	0.00
8,700.0	2.77	288.23	8,695.3	61.4	-186.4	-53.8	0.00	0.00	0.00
8,800.0	2.77	288.23	8,795.2	62.9	-191.0	-55.2	0.00	0.00	0.00
8,900.0	2.77	288.23	8,895.1	64.4	-195.6	-56.5	0.00	0.00	0.00
9,000.0	2.77	288.23	8,995.0	65.9	-200.2	-57.8	0.00	0.00	0.00
9,100.0	2.77	288.23	9,094.8	67.5	-204.8	-59.1	0.00	0.00	0.00
9,200.0	2.77	288.23	9,194.7	69.0	-209.4	-60.5	0.00	0.00	0.00
9,300.0	2.77	288.23	9,294.6	70.5	-213.9	-61.8	0.00	0.00	0.00
9,400.0	2.77	288.23	9,394.5	72.0	-218.5	-63.1	0.00	0.00	0.00
9,500.0	2.77	288.23	9,494.4	73.5	-223.1	-64.4	0.00	0.00	0.00
9,600.0	2.77	288.23	9,594.3	75.0	-227.7	-65.8	0.00	0.00	0.00
9,700.0	2.77	288.23	9,694.1	76.5	-232.3	-67.1	0.00	0.00	0.00
9,800.0	2.77	288.23	9,794.0	78.0	-236.9	-68.4	0.00	0.00	0.00
9,900.0	2.77	288.23	9,893.9	79.5	-241.5	-69.7	0.00	0.00	0.00
10,000.0	2.77	288.23	9,993.8	81.1	-246.1	-71.1	0.00	0.00	0.00
10,100.0	2.77	288.23	10,093.7	82.6	-250.7	-72.4	0.00	0.00	0.00
10,200.0	2.77	288.23	10,193.6	84.1	-255.3	-73.7	0.00	0.00	0.00
10,300.0	2.77	288.23	10,293.4	85.6	-259.8	-75.0	0.00	0.00	0.00
10,400.0	2.77	288.23	10,393.3	87.1	-264.4	-76.4	0.00	0.00	0.00
10,500.0	2.77	288.23	10,493.2	88.6	-269.0	-77.7	0.00	0.00	0.00
10,600.0	2.77	288.23	10,593.1	90.1	-273.6	-79.0	0.00	0.00	0.00

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Planned 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)
10,700.0	2.77	288.23	10,693.0	91.6	-278.2	-80.3	0.00	0.00	0.00
10,800.0	2.77	288.23	10,792.9	93.2	-282.8	-81.7	0.00	0.00	0.00
10,900.0	2.77	288.23	10,892.7	94.7	-287.4	-83.0	0.00	0.00	0.00
11,000.0	2.77	288.23	10,992.6	96.2	-292.0	-84.3	0.00	0.00	0.00
11,100.0	2.77	288.23	11,092.5	97.7	-296.6	-85.6	0.00	0.00	0.00
11,200.0	2.77	288.23	11,192.4	99.2	-301.1	-87.0	0.00	0.00	0.00
11,300.0	2.77	288.23	11,292.3	100.7	-305.7	-88.3	0.00	0.00	0.00
11,400.0	2.77	288.23	11,392.2	102.2	-310.3	-89.6	0.00	0.00	0.00
11,500.0	2.77	288.23	11,492.0	103.7	-314.9	-90.9	0.00	0.00	0.00
11,600.0	2.77	288.23	11,591.9	105.2	-319.5	-92.3	0.00	0.00	0.00
11,700.0	2.77	288.23	11,691.8	106.8	-324.1	-93.6	0.00	0.00	0.00
11,800.0	2.77	288.23	11,791.7	108.3	-328.7	-94.9	0.00	0.00	0.00
11,900.0	2.77	288.23	11,891.6	109.8	-333.3	-96.2	0.00	0.00	0.00
11,954.2	2.77	288.23	11,945.7	110.6	-335.8	-97.0	0.00	0.00	0.00
11,975.0	3.08	237.96	11,966.5	110.5	-336.7	-96.8	12.00	1.50	-241.24
12,000.0	5.31	209.16	11,991.4	109.1	-337.8	-95.4	12.00	8.91	-115.23
12,025.0	8.05	198.50	12,016.2	106.4	-339.0	-92.7	12.00	10.98	-42.63
12,050.0	10.93	193.32	12,040.9	102.5	-340.1	-88.6	12.00	11.52	-20.70
12,075.0	13.86	190.30	12,065.3	97.2	-341.1	-83.4	12.00	11.72	-12.10
12,100.0	16.82	188.32	12,089.4	90.7	-342.2	-76.8	12.00	11.82	-7.93
12,125.0	19.78	186.92	12,113.2	82.9	-343.2	-69.0	12.00	11.87	-5.61
12,150.0	22.76	185.87	12,136.5	73.9	-344.2	-59.9	12.00	11.90	-4.19
12,175.0	25.74	185.05	12,159.2	63.7	-345.2	-49.7	12.00	11.92	-3.27
12,200.0	28.73	184.39	12,181.5	52.3	-346.2	-38.2	12.00	11.94	-2.63
12,225.0	31.71	183.85	12,203.1	39.7	-347.1	-25.7	12.00	11.95	-2.17
12,250.0	34.70	183.39	12,224.0	26.0	-347.9	-12.0	12.00	11.96	-1.84
12,275.0	37.69	183.00	12,244.2	11.3	-348.7	2.8	12.00	11.96	-1.58
12,300.0	40.69	182.65	12,263.5	-4.5	-349.5	18.6	12.00	11.97	-1.38
12,325.0	43.68	182.35	12,282.1	-21.2	-350.2	35.4	12.00	11.97	-1.22
12,350.0	46.67	182.07	12,299.7	-39.0	-350.9	53.1	12.00	11.97	-1.09
12,375.0	49.67	181.83	12,316.3	-57.6	-351.6	71.7	12.00	11.98	-0.99
12,400.0	52.66	181.60	12,332.0	-77.0	-352.1	91.2	12.00	11.98	-0.91
12,425.0	55.66	181.39	12,346.7	-97.3	-352.7	111.4	12.00	11.98	-0.84
12,450.0	58.65	181.20	12,360.2	-118.3	-353.1	132.4	12.00	11.98	-0.78
12,475.0	61.65	181.01	12,372.7	-140.0	-353.6	154.1	12.00	11.98	-0.73
12,500.0	64.64	180.84	12,384.0	-162.3	-353.9	176.4	12.00	11.98	-0.69
12,523.0	67.40	180.69	12,393.3	-183.3	-354.2	197.4	12.00	11.98	-0.66
FTP(Ant 9 Fed #703H)									
12,525.0	67.64	180.68	12,394.1	-185.1	-354.2	199.3	12.00	11.99	-0.64
12,550.0	70.64	180.52	12,403.0	-208.5	-354.5	222.6	12.00	11.99	-0.63
12,575.0	73.63	180.37	12,410.6	-232.3	-354.7	246.4	12.00	11.99	-0.61
12,600.0	76.63	180.22	12,417.0	-256.4	-354.8	270.5	12.00	11.99	-0.59
12,625.0	79.63	180.08	12,422.2	-280.9	-354.8	295.0	12.00	11.99	-0.57
12,650.0	82.62	179.94	12,426.0	-305.6	-354.8	319.7	12.00	11.99	-0.56
12,675.0	85.62	179.80	12,428.6	-330.5	-354.8	344.5	12.00	11.99	-0.56
12,700.0	88.62	179.66	12,429.9	-355.4	-354.7	369.4	12.00	11.99	-0.55
12,711.5	90.00	179.60	12,430.0	-367.0	-354.6	381.0	12.00	11.99	-0.55
12,800.0	90.00	179.60	12,430.0	-455.4	-354.0	469.3	0.00	0.00	0.00
12,900.0	90.00	179.60	12,430.0	-555.4	-353.3	569.2	0.00	0.00	0.00
13,000.0	90.00	179.60	12,430.0	-655.4	-352.5	669.1	0.00	0.00	0.00
13,100.0	90.00	179.60	12,430.0	-755.4	-351.8	769.0	0.00	0.00	0.00
13,200.0	90.00	179.60	12,430.0	-855.4	-351.1	868.9	0.00	0.00	0.00
13,300.0	90.00	179.60	12,430.0	-955.4	-350.4	968.8	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Antietam 9 Fed Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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)
13,400.0	90.00	179.60	12,430.0	-1,055.4	-349.7	1,068.7	0.00	0.00	0.00
13,500.0	90.00	179.60	12,430.0	-1,155.4	-349.0	1,168.5	0.00	0.00	0.00
13,600.0	90.00	179.60	12,430.0	-1,255.4	-348.3	1,268.4	0.00	0.00	0.00
13,700.0	90.00	179.60	12,430.0	-1,355.4	-347.6	1,368.3	0.00	0.00	0.00
13,800.0	90.00	179.60	12,430.0	-1,455.4	-346.9	1,468.2	0.00	0.00	0.00
13,900.0	90.00	179.60	12,430.0	-1,555.4	-346.2	1,568.1	0.00	0.00	0.00
14,000.0	90.00	179.60	12,430.0	-1,655.4	-345.5	1,668.0	0.00	0.00	0.00
14,100.0	90.00	179.60	12,430.0	-1,755.4	-344.8	1,767.9	0.00	0.00	0.00
14,200.0	90.00	179.60	12,430.0	-1,855.4	-344.1	1,867.8	0.00	0.00	0.00
14,300.0	90.00	179.60	12,430.0	-1,955.4	-343.4	1,967.6	0.00	0.00	0.00
14,400.0	90.00	179.60	12,430.0	-2,055.4	-342.7	2,067.5	0.00	0.00	0.00
14,500.0	90.00	179.60	12,430.0	-2,155.4	-342.0	2,167.4	0.00	0.00	0.00
14,600.0	90.00	179.60	12,430.0	-2,255.4	-341.2	2,267.3	0.00	0.00	0.00
14,700.0	90.00	179.60	12,430.0	-2,355.4	-340.5	2,367.2	0.00	0.00	0.00
14,800.0	90.00	179.60	12,430.0	-2,455.4	-339.8	2,467.1	0.00	0.00	0.00
14,900.0	90.00	179.60	12,430.0	-2,555.4	-339.1	2,567.0	0.00	0.00	0.00
15,000.0	90.00	179.60	12,430.0	-2,655.4	-338.4	2,666.9	0.00	0.00	0.00
15,100.0	90.00	179.60	12,430.0	-2,755.4	-337.7	2,766.7	0.00	0.00	0.00
15,200.0	90.00	179.60	12,430.0	-2,855.4	-337.0	2,866.6	0.00	0.00	0.00
15,300.0	90.00	179.60	12,430.0	-2,955.4	-336.3	2,966.5	0.00	0.00	0.00
15,400.0	90.00	179.60	12,430.0	-3,055.3	-335.6	3,066.4	0.00	0.00	0.00
15,500.0	90.00	179.60	12,430.0	-3,155.3	-334.9	3,166.3	0.00	0.00	0.00
15,600.0	90.00	179.60	12,430.0	-3,255.3	-334.2	3,266.2	0.00	0.00	0.00
15,700.0	90.00	179.60	12,430.0	-3,355.3	-333.5	3,366.1	0.00	0.00	0.00
15,800.0	90.00	179.60	12,430.0	-3,455.3	-332.8	3,466.0	0.00	0.00	0.00
15,900.0	90.00	179.60	12,430.0	-3,555.3	-332.1	3,565.8	0.00	0.00	0.00
16,000.0	90.00	179.60	12,430.0	-3,655.3	-331.4	3,665.7	0.00	0.00	0.00
16,100.0	90.00	179.60	12,430.0	-3,755.3	-330.6	3,765.6	0.00	0.00	0.00
16,200.0	90.00	179.60	12,430.0	-3,855.3	-329.9	3,865.5	0.00	0.00	0.00
16,300.0	90.00	179.60	12,430.0	-3,955.3	-329.2	3,965.4	0.00	0.00	0.00
16,400.0	90.00	179.60	12,430.0	-4,055.3	-328.5	4,065.3	0.00	0.00	0.00
16,500.0	90.00	179.60	12,430.0	-4,155.3	-327.8	4,165.2	0.00	0.00	0.00
16,600.0	90.00	179.60	12,430.0	-4,255.3	-327.1	4,265.1	0.00	0.00	0.00
16,700.0	90.00	179.60	12,430.0	-4,355.3	-326.4	4,364.9	0.00	0.00	0.00
16,800.0	90.00	179.60	12,430.0	-4,455.3	-325.7	4,464.8	0.00	0.00	0.00
16,900.0	90.00	179.60	12,430.0	-4,555.3	-325.0	4,564.7	0.00	0.00	0.00
17,000.0	90.00	179.60	12,430.0	-4,655.3	-324.3	4,664.6	0.00	0.00	0.00
17,100.0	90.00	179.60	12,430.0	-4,755.3	-323.6	4,764.5	0.00	0.00	0.00
17,200.0	90.00	179.60	12,430.0	-4,855.3	-322.9	4,864.4	0.00	0.00	0.00
17,300.0	90.00	179.60	12,430.0	-4,955.3	-322.2	4,964.3	0.00	0.00	0.00
17,400.0	90.00	179.60	12,430.0	-5,055.3	-321.5	5,064.2	0.00	0.00	0.00
17,500.0	90.00	179.60	12,430.0	-5,155.3	-320.8	5,164.0	0.00	0.00	0.00
17,600.0	90.00	179.60	12,430.0	-5,255.3	-320.1	5,263.9	0.00	0.00	0.00
17,700.0	90.00	179.60	12,430.0	-5,355.3	-319.3	5,363.8	0.00	0.00	0.00
17,800.0	90.00	179.60	12,430.0	-5,455.3	-318.6	5,463.7	0.00	0.00	0.00
17,900.0	90.00	179.60	12,430.0	-5,555.3	-317.9	5,563.6	0.00	0.00	0.00
18,000.0	90.00	179.60	12,430.0	-5,655.3	-317.2	5,663.5	0.00	0.00	0.00
18,100.0	90.00	179.60	12,430.0	-5,755.3	-316.5	5,763.4	0.00	0.00	0.00
18,200.0	90.00	179.60	12,430.0	-5,855.3	-315.8	5,863.3	0.00	0.00	0.00
18,300.0	90.00	179.60	12,430.0	-5,955.3	-315.1	5,963.1	0.00	0.00	0.00
18,400.0	90.00	179.60	12,430.0	-6,055.3	-314.4	6,063.0	0.00	0.00	0.00
18,500.0	90.00	179.60	12,430.0	-6,155.3	-313.7	6,162.9	0.00	0.00	0.00
18,600.0	90.00	179.60	12,430.0	-6,255.3	-313.0	6,262.8	0.00	0.00	0.00
18,700.0	90.00	179.60	12,430.0	-6,355.3	-312.3	6,362.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #703H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3465.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3465.0usft
Site:	Antietam 9 Fed Com	North Reference:	Grid
Well:	#703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned 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)
18,800.0	90.00	179.60	12,430.0	-6,455.3	-311.6	6,462.6	0.00	0.00	0.00
18,900.0	90.00	179.60	12,430.0	-6,555.3	-310.9	6,562.5	0.00	0.00	0.00
19,000.0	90.00	179.60	12,430.0	-6,655.3	-310.2	6,662.4	0.00	0.00	0.00
19,100.0	90.00	179.60	12,430.0	-6,755.3	-309.5	6,762.2	0.00	0.00	0.00
19,200.0	90.00	179.60	12,430.0	-6,855.3	-308.7	6,862.1	0.00	0.00	0.00
19,300.0	90.00	179.60	12,430.0	-6,955.3	-308.0	6,962.0	0.00	0.00	0.00
19,400.0	90.00	179.60	12,430.0	-7,055.2	-307.3	7,061.9	0.00	0.00	0.00
19,500.0	90.00	179.60	12,430.0	-7,155.2	-306.6	7,161.8	0.00	0.00	0.00
19,600.0	90.00	179.60	12,430.0	-7,255.2	-305.9	7,261.7	0.00	0.00	0.00
19,700.0	90.00	179.60	12,430.0	-7,355.2	-305.2	7,361.6	0.00	0.00	0.00
19,800.0	90.00	179.60	12,430.0	-7,455.2	-304.5	7,461.5	0.00	0.00	0.00
19,871.8	90.00	179.60	12,430.0	-7,527.0	-304.0	7,533.1	0.00	0.00	0.00
PBHL(Ant 9 Fed #703H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(Ant 9 Fed #703H)	0.00	0.00	12,430.0	-167.0	-356.0	419,589.00	733,156.00	32° 9' 4.768 N	103° 34' 47.906 W
- hit/miss target									
- Shape									
- plan misses target center by 40.2usft at 12523.0usft MD (12393.3 TVD, -183.3 N, -354.2 E)									
- Point									
PBHL(Ant 9 Fed #703H)	0.00	0.00	12,430.0	-7,527.0	-304.0	412,229.00	733,208.00	32° 7' 51.932 N	103° 34' 47.900 W
- plan hits target center									
- Point									