



Lea County, NM (NAD 27 NME)

Antietam 9 Fed Com #702H

Precision 612

Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #702H

Ground Level: 3438.0
KB = 25 @ 3463.0m (Precision 612)
Northing 419852.00 Easting 731887.00 Latitude 32° 9' 7.458 N Longitude 103° 35' 2.645 W

SECTION DETAILS

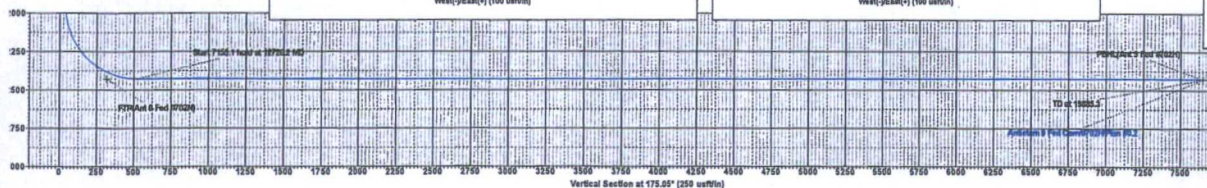
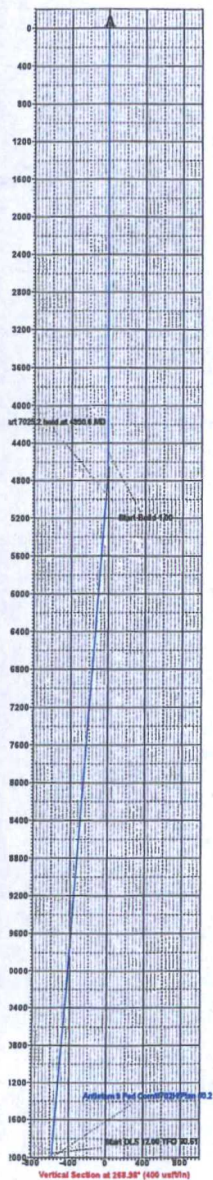
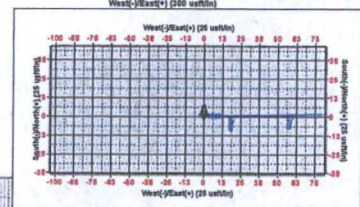
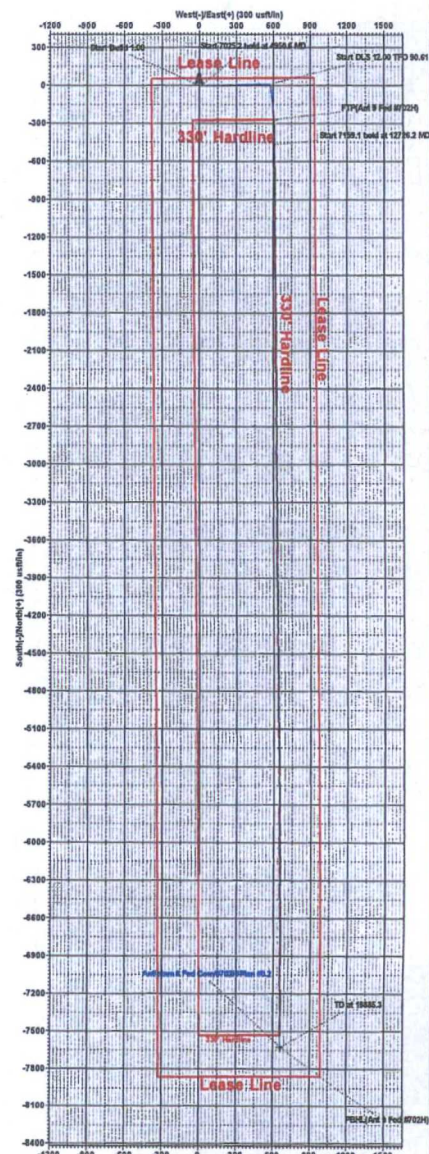
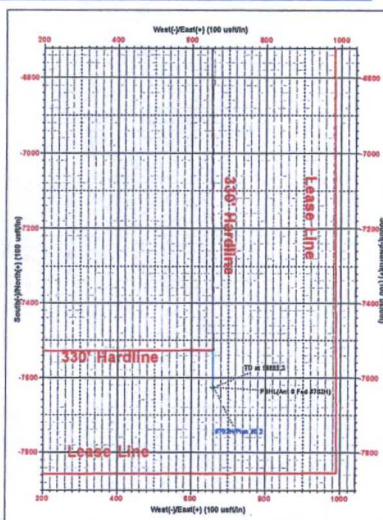
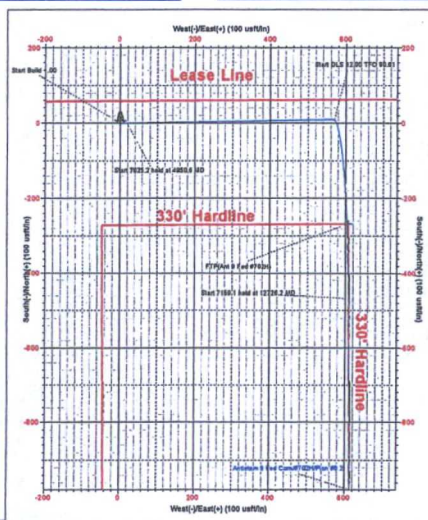
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4950.6	4.51	88.98	4950.1	0.3	17.7	1.00	88.98	1.2	
4	11975.8	4.51	88.98	11953.6	10.1	569.5	0.00	0.00	39.1	
5	12726.2	90.00	179.60	12430.0	-467.1	610.4	12.00	90.61	518.0	
6	19885.3	90.00	179.60	12430.0	-7626.0	661.0	0.00	0.00	7654.6	PBHL(Ant 9 Fed #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL(Ant 9 Fed #702H)	12430.0	-7626.0	661.0	412226.00	732548.00
FTP(Ant 9 Fed #702H)	12430.0	-267.0	609.0	419885.00	732496.00



Lea County, NM (NAD 27 NME)
Precision 612
Plan #0.2
Antietam 9 Fed Com #702H



HOBBS OCD

NOV 28 2016

RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Antietam 9 Fed Com

#702H

OH

Plan: Plan #0.2

Standard Planning Report

08 August, 2016

**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: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3463.0usft (Precision 612)
MD Reference: KB = 25 @ 3463.0usft (Precision 612)
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 #702H
Well Position +N/-S 4,979.0 usft Northing: 419,852.00 usft Latitude: 32° 9' 7.458 N
+E/-W -4,229.0 usft Easting: 731,887.00 usft Longitude: 103° 35' 2.645 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 0.0 usft **Ground Level:** 3,438.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/14/2016	7.07	60.01	48,006

Design Plan #0.2

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	175.05

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	
4,950.6	4.51	88.98	4,950.1	0.3	17.7	1.00	1.00	0.00	88.98	
11,975.8	4.51	88.98	11,953.6	10.1	569.5	0.00	0.00	0.00	0.00	
12,726.2	90.00	179.60	12,430.0	-467.1	610.4	12.00	11.39	12.08	90.61	
19,885.3	90.00	179.60	12,430.0	-7,626.0	661.0	0.00	0.00	0.00	0.00	PBHL(Ant 9 Fed #702



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: #702H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3463.0usft (Precision 612)
 MD Reference: KB = 25 @ 3463.0usft (Precision 612)
 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)
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	88.98	4,600.0	0.0	0.9	0.1	1.00	1.00	0.00
4,700.0	2.00	88.98	4,700.0	0.1	3.5	0.2	1.00	1.00	0.00
4,800.0	3.00	88.98	4,799.9	0.1	7.9	0.5	1.00	1.00	0.00
4,900.0	4.00	88.98	4,899.7	0.2	14.0	1.0	1.00	1.00	0.00
4,950.6	4.51	88.98	4,950.1	0.3	17.7	1.2	1.00	1.00	0.00
5,000.0	4.51	88.98	4,999.4	0.4	21.6	1.5	0.00	0.00	0.00
5,100.0	4.51	88.98	5,099.1	0.5	29.4	2.0	0.00	0.00	0.00
5,200.0	4.51	88.98	5,198.8	0.7	37.3	2.6	0.00	0.00	0.00



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Site: Antietam 9 Fed Com
Well: #702H
Wellbore: OH
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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)
5,300.0	4.51	88.98	5,298.5	0.8	45.2	3.1	0.00	0.00	0.00
5,400.0	4.51	88.98	5,398.1	0.9	53.0	3.6	0.00	0.00	0.00
5,500.0	4.51	88.98	5,497.8	1.1	60.9	4.2	0.00	0.00	0.00
5,600.0	4.51	88.98	5,597.5	1.2	68.7	4.7	0.00	0.00	0.00
5,700.0	4.51	88.98	5,697.2	1.4	76.6	5.3	0.00	0.00	0.00
5,800.0	4.51	88.98	5,796.9	1.5	84.4	5.8	0.00	0.00	0.00
5,900.0	4.51	88.98	5,896.6	1.6	92.3	6.3	0.00	0.00	0.00
6,000.0	4.51	88.98	5,996.3	1.8	100.1	6.9	0.00	0.00	0.00
6,100.0	4.51	88.98	6,096.0	1.9	108.0	7.4	0.00	0.00	0.00
6,200.0	4.51	88.98	6,195.7	2.1	115.8	8.0	0.00	0.00	0.00
6,300.0	4.51	88.98	6,295.4	2.2	123.7	8.5	0.00	0.00	0.00
6,400.0	4.51	88.98	6,395.1	2.3	131.6	9.0	0.00	0.00	0.00
6,500.0	4.51	88.98	6,494.7	2.5	139.4	9.6	0.00	0.00	0.00
6,600.0	4.51	88.98	6,594.4	2.6	147.3	10.1	0.00	0.00	0.00
6,700.0	4.51	88.98	6,694.1	2.8	155.1	10.7	0.00	0.00	0.00
6,800.0	4.51	88.98	6,793.8	2.9	163.0	11.2	0.00	0.00	0.00
6,900.0	4.51	88.98	6,893.5	3.0	170.8	11.7	0.00	0.00	0.00
7,000.0	4.51	88.98	6,993.2	3.2	178.7	12.3	0.00	0.00	0.00
7,100.0	4.51	88.98	7,092.9	3.3	186.5	12.8	0.00	0.00	0.00
7,200.0	4.51	88.98	7,192.6	3.4	194.4	13.3	0.00	0.00	0.00
7,300.0	4.51	88.98	7,292.3	3.6	202.2	13.9	0.00	0.00	0.00
7,400.0	4.51	88.98	7,392.0	3.7	210.1	14.4	0.00	0.00	0.00
7,500.0	4.51	88.98	7,491.7	3.9	218.0	15.0	0.00	0.00	0.00
7,600.0	4.51	88.98	7,591.3	4.0	225.8	15.5	0.00	0.00	0.00
7,700.0	4.51	88.98	7,691.0	4.1	233.7	16.0	0.00	0.00	0.00
7,800.0	4.51	88.98	7,790.7	4.3	241.5	16.6	0.00	0.00	0.00
7,900.0	4.51	88.98	7,890.4	4.4	249.4	17.1	0.00	0.00	0.00
8,000.0	4.51	88.98	7,990.1	4.6	257.2	17.7	0.00	0.00	0.00
8,100.0	4.51	88.98	8,089.8	4.7	265.1	18.2	0.00	0.00	0.00
8,200.0	4.51	88.98	8,189.5	4.8	272.9	18.7	0.00	0.00	0.00
8,300.0	4.51	88.98	8,289.2	5.0	280.8	19.3	0.00	0.00	0.00
8,400.0	4.51	88.98	8,388.9	5.1	288.6	19.8	0.00	0.00	0.00
8,500.0	4.51	88.98	8,488.6	5.3	296.5	20.4	0.00	0.00	0.00
8,600.0	4.51	88.98	8,588.3	5.4	304.4	20.9	0.00	0.00	0.00
8,700.0	4.51	88.98	8,687.9	5.5	312.2	21.4	0.00	0.00	0.00
8,800.0	4.51	88.98	8,787.6	5.7	320.1	22.0	0.00	0.00	0.00
8,900.0	4.51	88.98	8,887.3	5.8	327.9	22.5	0.00	0.00	0.00
9,000.0	4.51	88.98	8,987.0	6.0	335.8	23.1	0.00	0.00	0.00
9,100.0	4.51	88.98	9,086.7	6.1	343.6	23.6	0.00	0.00	0.00
9,200.0	4.51	88.98	9,186.4	6.2	351.5	24.1	0.00	0.00	0.00
9,300.0	4.51	88.98	9,286.1	6.4	359.3	24.7	0.00	0.00	0.00
9,400.0	4.51	88.98	9,385.8	6.5	367.2	25.2	0.00	0.00	0.00
9,500.0	4.51	88.98	9,485.5	6.7	375.0	25.8	0.00	0.00	0.00
9,600.0	4.51	88.98	9,585.2	6.8	382.9	26.3	0.00	0.00	0.00
9,700.0	4.51	88.98	9,684.9	6.9	390.8	26.8	0.00	0.00	0.00
9,800.0	4.51	88.98	9,784.5	7.1	398.6	27.4	0.00	0.00	0.00
9,900.0	4.51	88.98	9,884.2	7.2	406.5	27.9	0.00	0.00	0.00
10,000.0	4.51	88.98	9,983.9	7.4	414.3	28.5	0.00	0.00	0.00
10,100.0	4.51	88.98	10,083.6	7.5	422.2	29.0	0.00	0.00	0.00
10,200.0	4.51	88.98	10,183.3	7.6	430.0	29.5	0.00	0.00	0.00
10,300.0	4.51	88.98	10,283.0	7.8	437.9	30.1	0.00	0.00	0.00
10,400.0	4.51	88.98	10,382.7	7.9	445.7	30.6	0.00	0.00	0.00
10,500.0	4.51	88.98	10,482.4	8.0	453.6	31.1	0.00	0.00	0.00
10,600.0	4.51	88.98	10,582.1	8.2	461.4	31.7	0.00	0.00	0.00



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Site: Antietam 9 Fed Com
Well: #702H
Wellbore: OH
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Local Co-ordinate Reference: Well #702H
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MD Reference: KB = 25 @ 3463.0usft (Precision 612)
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)
10,700.0	4.51	88.98	10,681.8	8.3	469.3	32.2	0.00	0.00	0.00
10,800.0	4.51	88.98	10,781.5	8.5	477.2	32.8	0.00	0.00	0.00
10,900.0	4.51	88.98	10,881.1	8.6	485.0	33.3	0.00	0.00	0.00
11,000.0	4.51	88.98	10,980.8	8.7	492.9	33.8	0.00	0.00	0.00
11,100.0	4.51	88.98	11,080.5	8.9	500.7	34.4	0.00	0.00	0.00
11,200.0	4.51	88.98	11,180.2	9.0	508.6	34.9	0.00	0.00	0.00
11,300.0	4.51	88.98	11,279.9	9.2	516.4	35.5	0.00	0.00	0.00
11,400.0	4.51	88.98	11,379.6	9.3	524.3	36.0	0.00	0.00	0.00
11,500.0	4.51	88.98	11,479.3	9.4	532.1	36.5	0.00	0.00	0.00
11,600.0	4.51	88.98	11,579.0	9.6	540.0	37.1	0.00	0.00	0.00
11,700.0	4.51	88.98	11,678.7	9.7	547.8	37.6	0.00	0.00	0.00
11,800.0	4.51	88.98	11,778.4	9.9	555.7	38.2	0.00	0.00	0.00
11,900.0	4.51	88.98	11,878.1	10.0	563.6	38.7	0.00	0.00	0.00
11,975.8	4.51	88.98	11,953.6	10.1	569.5	39.1	0.00	0.00	0.00
12,000.0	5.33	122.03	11,977.7	9.5	571.4	39.9	12.00	3.42	136.47
12,025.0	7.39	142.15	12,002.6	7.6	573.4	41.9	12.00	8.21	80.50
12,050.0	9.93	152.84	12,027.3	4.5	575.3	45.2	12.00	10.18	42.76
12,075.0	12.67	159.08	12,051.8	0.0	577.3	49.9	12.00	10.98	24.96
12,100.0	15.51	163.10	12,076.1	-5.8	579.3	55.8	12.00	11.35	16.07
12,125.0	18.40	165.89	12,100.0	-12.8	581.2	63.0	12.00	11.55	11.17
12,150.0	21.32	167.95	12,123.5	-21.1	583.1	71.4	12.00	11.67	8.21
12,175.0	24.25	169.52	12,146.5	-30.6	585.0	81.0	12.00	11.75	6.31
12,200.0	27.21	170.78	12,169.0	-41.3	586.8	91.8	12.00	11.80	5.02
12,225.0	30.16	171.80	12,191.0	-53.1	588.7	103.8	12.00	11.84	4.10
12,250.0	33.13	172.66	12,212.3	-66.1	590.4	116.9	12.00	11.86	3.43
12,275.0	36.10	173.39	12,232.8	-80.2	592.1	131.1	12.00	11.88	2.93
12,300.0	39.08	174.03	12,252.6	-95.4	593.8	146.3	12.00	11.90	2.54
12,325.0	42.05	174.58	12,271.6	-111.6	595.4	162.6	12.00	11.91	2.23
12,350.0	45.04	175.08	12,289.7	-128.7	597.0	179.8	12.00	11.92	1.99
12,375.0	48.02	175.53	12,306.9	-146.8	598.5	197.9	12.00	11.93	1.79
12,400.0	51.00	175.94	12,323.2	-165.7	599.9	216.9	12.00	11.94	1.63
12,425.0	53.99	176.31	12,338.4	-185.5	601.2	236.8	12.00	11.94	1.50
12,450.0	56.97	176.66	12,352.6	-206.1	602.5	257.3	12.00	11.95	1.39
12,475.0	59.96	176.98	12,365.6	-227.4	603.6	278.6	12.00	11.95	1.30
12,500.0	62.95	177.29	12,377.6	-249.3	604.7	300.6	12.00	11.95	1.22
12,525.0	65.94	177.58	12,388.4	-271.8	605.8	323.1	12.00	11.95	1.16
12,536.6	67.33	177.71	12,393.0	-282.5	606.2	333.8	12.00	11.96	1.12
FTP(Ant 9 Fed #702H)									
12,550.0	68.93	177.86	12,398.0	-294.9	606.7	346.2	12.00	11.96	1.09
12,575.0	71.92	178.12	12,406.3	-318.4	607.5	369.7	12.00	11.96	1.06
12,600.0	74.91	178.38	12,413.5	-342.4	608.2	393.6	12.00	11.96	1.03
12,625.0	77.90	178.63	12,419.4	-366.7	608.9	417.9	12.00	11.96	1.00
12,650.0	80.89	178.87	12,424.0	-391.2	609.4	442.4	12.00	11.96	0.98
12,675.0	83.88	179.11	12,427.3	-416.0	609.8	467.1	12.00	11.96	0.96
12,700.0	86.87	179.35	12,429.3	-440.9	610.2	492.0	12.00	11.96	0.95
12,726.2	90.00	179.60	12,430.0	-467.1	610.4	518.0	12.00	11.96	0.94
12,800.0	90.00	179.60	12,430.0	-540.9	610.9	591.6	0.00	0.00	0.00
12,900.0	90.00	179.60	12,430.0	-640.9	611.6	691.3	0.00	0.00	0.00
13,000.0	90.00	179.60	12,430.0	-740.9	612.3	791.0	0.00	0.00	0.00
13,100.0	90.00	179.60	12,430.0	-840.9	613.1	890.7	0.00	0.00	0.00
13,200.0	90.00	179.60	12,430.0	-940.9	613.8	990.4	0.00	0.00	0.00
13,300.0	90.00	179.60	12,430.0	-1,040.9	614.5	1,090.1	0.00	0.00	0.00
13,400.0	90.00	179.60	12,430.0	-1,140.9	615.2	1,189.7	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: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3463.0usft (Precision 612)
MD Reference: KB = 25 @ 3463.0usft (Precision 612)
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)
13,500.0	90.00	179.60	12,430.0	-1,240.9	615.9	1,289.4	0.00	0.00	0.00
13,600.0	90.00	179.60	12,430.0	-1,340.9	616.6	1,389.1	0.00	0.00	0.00
13,700.0	90.00	179.60	12,430.0	-1,440.9	617.3	1,488.8	0.00	0.00	0.00
13,800.0	90.00	179.60	12,430.0	-1,540.9	618.0	1,588.5	0.00	0.00	0.00
13,900.0	90.00	179.60	12,430.0	-1,640.9	618.7	1,688.2	0.00	0.00	0.00
14,000.0	90.00	179.60	12,430.0	-1,740.9	619.4	1,787.8	0.00	0.00	0.00
14,100.0	90.00	179.60	12,430.0	-1,840.9	620.1	1,887.5	0.00	0.00	0.00
14,200.0	90.00	179.60	12,430.0	-1,940.9	620.8	1,987.2	0.00	0.00	0.00
14,300.0	90.00	179.60	12,430.0	-2,040.9	621.5	2,086.9	0.00	0.00	0.00
14,400.0	90.00	179.60	12,430.0	-2,140.9	622.2	2,186.6	0.00	0.00	0.00
14,500.0	90.00	179.60	12,430.0	-2,240.8	622.9	2,286.3	0.00	0.00	0.00
14,600.0	90.00	179.60	12,430.0	-2,340.8	623.7	2,386.0	0.00	0.00	0.00
14,700.0	90.00	179.60	12,430.0	-2,440.8	624.4	2,485.6	0.00	0.00	0.00
14,800.0	90.00	179.60	12,430.0	-2,540.8	625.1	2,585.3	0.00	0.00	0.00
14,900.0	90.00	179.60	12,430.0	-2,640.8	625.8	2,685.0	0.00	0.00	0.00
15,000.0	90.00	179.60	12,430.0	-2,740.8	626.5	2,784.7	0.00	0.00	0.00
15,100.0	90.00	179.60	12,430.0	-2,840.8	627.2	2,884.4	0.00	0.00	0.00
15,200.0	90.00	179.60	12,430.0	-2,940.8	627.9	2,984.1	0.00	0.00	0.00
15,300.0	90.00	179.60	12,430.0	-3,040.8	628.6	3,083.8	0.00	0.00	0.00
15,400.0	90.00	179.60	12,430.0	-3,140.8	629.3	3,183.4	0.00	0.00	0.00
15,500.0	90.00	179.60	12,430.0	-3,240.8	630.0	3,283.1	0.00	0.00	0.00
15,600.0	90.00	179.60	12,430.0	-3,340.8	630.7	3,382.8	0.00	0.00	0.00
15,700.0	90.00	179.60	12,430.0	-3,440.8	631.4	3,482.5	0.00	0.00	0.00
15,800.0	90.00	179.60	12,430.0	-3,540.8	632.1	3,582.2	0.00	0.00	0.00
15,900.0	90.00	179.60	12,430.0	-3,640.8	632.8	3,681.9	0.00	0.00	0.00
16,000.0	90.00	179.60	12,430.0	-3,740.8	633.5	3,781.5	0.00	0.00	0.00
16,100.0	90.00	179.60	12,430.0	-3,840.8	634.3	3,881.2	0.00	0.00	0.00
16,200.0	90.00	179.60	12,430.0	-3,940.8	635.0	3,980.9	0.00	0.00	0.00
16,300.0	90.00	179.60	12,430.0	-4,040.8	635.7	4,080.6	0.00	0.00	0.00
16,400.0	90.00	179.60	12,430.0	-4,140.8	636.4	4,180.3	0.00	0.00	0.00
16,500.0	90.00	179.60	12,430.0	-4,240.8	637.1	4,280.0	0.00	0.00	0.00
16,600.0	90.00	179.60	12,430.0	-4,340.8	637.8	4,379.7	0.00	0.00	0.00
16,700.0	90.00	179.60	12,430.0	-4,440.8	638.5	4,479.3	0.00	0.00	0.00
16,800.0	90.00	179.60	12,430.0	-4,540.8	639.2	4,579.0	0.00	0.00	0.00
16,900.0	90.00	179.60	12,430.0	-4,640.8	639.9	4,678.7	0.00	0.00	0.00
17,000.0	90.00	179.60	12,430.0	-4,740.8	640.6	4,778.4	0.00	0.00	0.00
17,100.0	90.00	179.60	12,430.0	-4,840.8	641.3	4,878.1	0.00	0.00	0.00
17,200.0	90.00	179.60	12,430.0	-4,940.8	642.0	4,977.8	0.00	0.00	0.00
17,300.0	90.00	179.60	12,430.0	-5,040.8	642.7	5,077.5	0.00	0.00	0.00
17,400.0	90.00	179.60	12,430.0	-5,140.8	643.4	5,177.1	0.00	0.00	0.00
17,500.0	90.00	179.60	12,430.0	-5,240.8	644.1	5,276.8	0.00	0.00	0.00
17,600.0	90.00	179.60	12,430.0	-5,340.8	644.9	5,376.5	0.00	0.00	0.00
17,700.0	90.00	179.60	12,430.0	-5,440.8	645.6	5,476.2	0.00	0.00	0.00
17,800.0	90.00	179.60	12,430.0	-5,540.8	646.3	5,575.9	0.00	0.00	0.00
17,900.0	90.00	179.60	12,430.0	-5,640.8	647.0	5,675.6	0.00	0.00	0.00
18,000.0	90.00	179.60	12,430.0	-5,740.8	647.7	5,775.2	0.00	0.00	0.00
18,100.0	90.00	179.60	12,430.0	-5,840.8	648.4	5,874.9	0.00	0.00	0.00
18,200.0	90.00	179.60	12,430.0	-5,940.8	649.1	5,974.6	0.00	0.00	0.00
18,300.0	90.00	179.60	12,430.0	-6,040.8	649.8	6,074.3	0.00	0.00	0.00
18,400.0	90.00	179.60	12,430.0	-6,140.8	650.5	6,174.0	0.00	0.00	0.00
18,500.0	90.00	179.60	12,430.0	-6,240.7	651.2	6,273.7	0.00	0.00	0.00
18,600.0	90.00	179.60	12,430.0	-6,340.7	651.9	6,373.4	0.00	0.00	0.00
18,700.0	90.00	179.60	12,430.0	-6,440.7	652.6	6,473.0	0.00	0.00	0.00
18,800.0	90.00	179.60	12,430.0	-6,540.7	653.3	6,572.7	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: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
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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)
18,900.0	90.00	179.60	12,430.0	-6,640.7	654.0	6,672.4	0.00	0.00	0.00
19,000.0	90.00	179.60	12,430.0	-6,740.7	654.7	6,772.1	0.00	0.00	0.00
19,100.0	90.00	179.60	12,430.0	-6,840.7	655.5	6,871.8	0.00	0.00	0.00
19,200.0	90.00	179.60	12,430.0	-6,940.7	656.2	6,971.5	0.00	0.00	0.00
19,300.0	90.00	179.60	12,430.0	-7,040.7	656.9	7,071.2	0.00	0.00	0.00
19,400.0	90.00	179.60	12,430.0	-7,140.7	657.6	7,170.8	0.00	0.00	0.00
19,500.0	90.00	179.60	12,430.0	-7,240.7	658.3	7,270.5	0.00	0.00	0.00
19,600.0	90.00	179.60	12,430.0	-7,340.7	659.0	7,370.2	0.00	0.00	0.00
19,700.0	90.00	179.60	12,430.0	-7,440.7	659.7	7,469.9	0.00	0.00	0.00
19,800.0	90.00	179.60	12,430.0	-7,540.7	660.4	7,569.6	0.00	0.00	0.00
19,885.3	90.00	179.60	12,430.0	-7,626.0	661.0	7,654.6	0.00	0.00	0.00
PBHL(Ant 9 Fed #702H)									

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 #702H)	0.00	0.00	12,430.0	-267.0	609.0	419,585.00	732,496.00	32° 9' 4.774 N	103° 34' 55.583 W
- hit/miss target									
- Shape									
- plan misses target center by 40.2usft at 12536.6usft MD (12393.0 TVD, -282.5 N, 606.2 E)									
- Point									
PBHL(Ant 9 Fed #702H)	0.00	0.00	12,430.0	-7,626.0	661.0	412,226.00	732,548.00	32° 7' 51.948 N	103° 34' 55.575 W
- plan hits target center									
- Point									