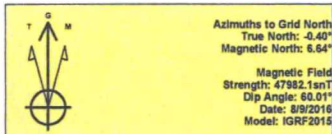




Lea County, NM (NAD 27 NME)

Antietam 9 Fed Com #704H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 6.64°
To convert a Magnetic Direction to a True Direction, Add 7.04° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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: #704H

Ground Level: 3440.0
KB = 25° @ 3465.0usft
Northing: 419757.00
Easting: 733542.00
Latitude: 32° 9' 6.404 N
Longitude: 103° 34' 43.403 W

SECTION DETAILS

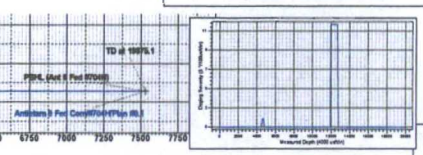
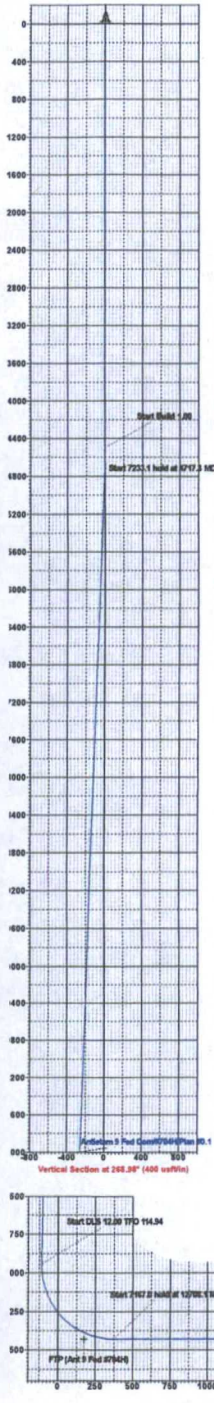
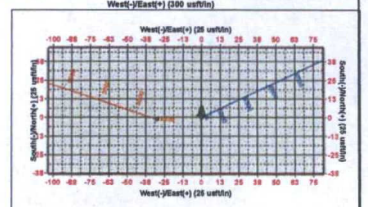
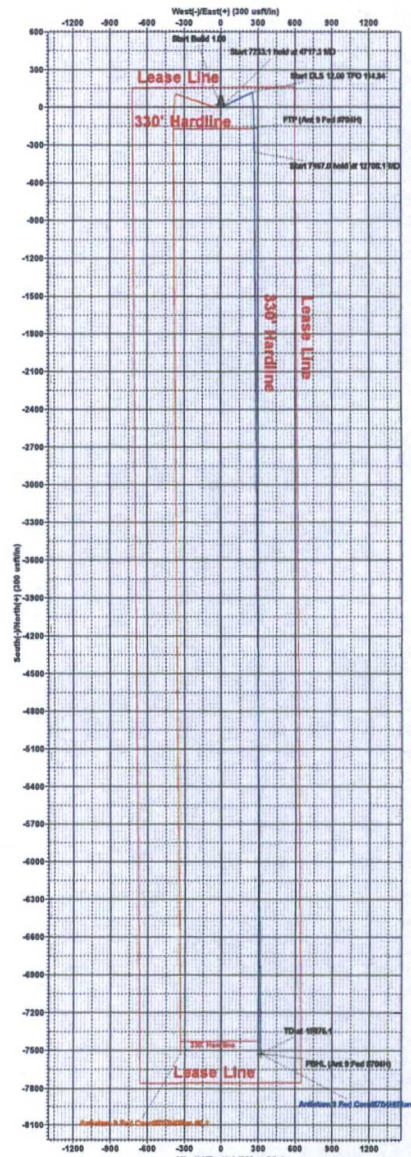
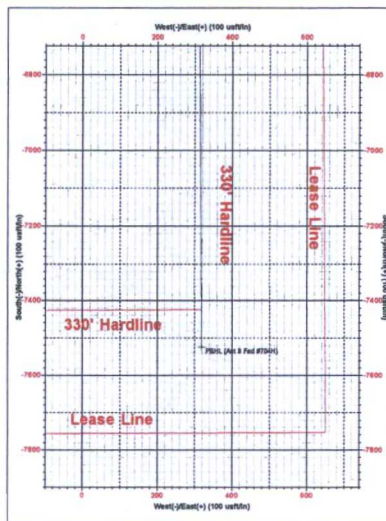
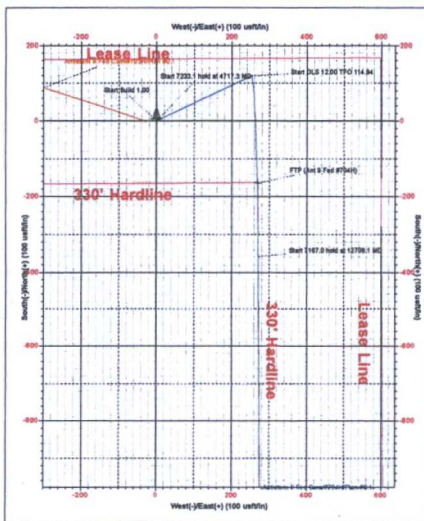
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4717.3	2.17	64.67	4717.3	1.8	3.7	1.00	64.67	-1.6	
4	11950.4	2.17	64.67	11945.2	119.1	251.6	0.00	0.00	-108.4	
5	12708.1	90.00	179.62	12430.0	-358.2	271.5	12.00	114.94	369.3	
6	19875.1	90.00	179.62	12430.0	-7525.0	319.0	0.00	0.00	7531.8	PBHL (Ant 9 Fed #704H)

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 #704H)	12430.0	-7525.0	319.0	412232.00	733861.00
FTP (Ant 9 Fed #704H)	12430.0	-164.0	270.0	419593.00	733812.00



Lea County, NM (NAD 27 NME)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Page 61
8/10, August 20, 2016



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Antietam 9 Fed Com

#704H

OH

Plan: Plan #0.1

HOBBS OCD

NOV 28 2016

RECEIVED

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: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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 #704H

Well Position +N/-S 4,884.0 usft Northing: 419,757.00 usft Latitude: 32° 9' 6.404 N
+E/-W -2,574.0 usft Easting: 733,542.00 usft Longitude: 103° 34' 43.403 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	8/9/2016	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	177.57

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	
4,717.3	2.17	64.67	4,717.3	1.8	3.7	1.00	1.00	0.00	64.67	
11,950.4	2.17	64.67	11,945.2	119.1	251.6	0.00	0.00	0.00	0.00	
12,708.1	90.00	179.62	12,430.0	-358.2	271.5	12.00	11.59	15.17	114.94	
19,875.1	90.00	179.62	12,430.0	-7,525.0	319.0	0.00	0.00	0.00	0.00	PBHL (Ant 9 Fed #70-



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: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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)
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	64.67	4,600.0	0.4	0.8	-0.3	1.00	1.00	0.00
4,700.0	2.00	64.67	4,700.0	1.5	3.2	-1.4	1.00	1.00	0.00
4,717.3	2.17	64.67	4,717.3	1.8	3.7	-1.6	1.00	1.00	0.00
4,800.0	2.17	64.67	4,799.9	3.1	6.6	-2.8	0.00	0.00	0.00
4,900.0	2.17	64.67	4,899.8	4.7	10.0	-4.3	0.00	0.00	0.00
5,000.0	2.17	64.67	4,999.7	6.3	13.4	-5.8	0.00	0.00	0.00
5,100.0	2.17	64.67	5,099.7	8.0	16.8	-7.3	0.00	0.00	0.00
5,200.0	2.17	64.67	5,199.6	9.6	20.3	-8.7	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: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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)
5,300.0	2.17	64.67	5,299.5	11.2	23.7	-10.2	0.00	0.00	0.00
5,400.0	2.17	64.67	5,399.5	12.8	27.1	-11.7	0.00	0.00	0.00
5,500.0	2.17	64.67	5,499.4	14.5	30.5	-13.2	0.00	0.00	0.00
5,600.0	2.17	64.67	5,599.3	16.1	34.0	-14.6	0.00	0.00	0.00
5,700.0	2.17	64.67	5,699.2	17.7	37.4	-16.1	0.00	0.00	0.00
5,800.0	2.17	64.67	5,799.2	19.3	40.8	-17.6	0.00	0.00	0.00
5,900.0	2.17	64.67	5,899.1	21.0	44.3	-19.1	0.00	0.00	0.00
6,000.0	2.17	64.67	5,999.0	22.6	47.7	-20.5	0.00	0.00	0.00
6,100.0	2.17	64.67	6,099.0	24.2	51.1	-22.0	0.00	0.00	0.00
6,200.0	2.17	64.67	6,198.9	25.8	54.5	-23.5	0.00	0.00	0.00
6,300.0	2.17	64.67	6,298.8	27.4	58.0	-25.0	0.00	0.00	0.00
6,400.0	2.17	64.67	6,398.7	29.1	61.4	-26.4	0.00	0.00	0.00
6,500.0	2.17	64.67	6,498.7	30.7	64.8	-27.9	0.00	0.00	0.00
6,600.0	2.17	64.67	6,598.6	32.3	68.2	-29.4	0.00	0.00	0.00
6,700.0	2.17	64.67	6,698.5	33.9	71.7	-30.9	0.00	0.00	0.00
6,800.0	2.17	64.67	6,798.4	35.6	75.1	-32.3	0.00	0.00	0.00
6,900.0	2.17	64.67	6,898.4	37.2	78.5	-33.8	0.00	0.00	0.00
7,000.0	2.17	64.67	6,998.3	38.8	82.0	-35.3	0.00	0.00	0.00
7,100.0	2.17	64.67	7,098.2	40.4	85.4	-36.8	0.00	0.00	0.00
7,200.0	2.17	64.67	7,198.2	42.0	88.8	-38.2	0.00	0.00	0.00
7,300.0	2.17	64.67	7,298.1	43.7	92.2	-39.7	0.00	0.00	0.00
7,400.0	2.17	64.67	7,398.0	45.3	95.7	-41.2	0.00	0.00	0.00
7,500.0	2.17	64.67	7,497.9	46.9	99.1	-42.7	0.00	0.00	0.00
7,600.0	2.17	64.67	7,597.9	48.5	102.5	-44.2	0.00	0.00	0.00
7,700.0	2.17	64.67	7,697.8	50.2	105.9	-45.6	0.00	0.00	0.00
7,800.0	2.17	64.67	7,797.7	51.8	109.4	-47.1	0.00	0.00	0.00
7,900.0	2.17	64.67	7,897.7	53.4	112.8	-48.6	0.00	0.00	0.00
8,000.0	2.17	64.67	7,997.6	55.0	116.2	-50.1	0.00	0.00	0.00
8,100.0	2.17	64.67	8,097.5	56.6	119.7	-51.5	0.00	0.00	0.00
8,200.0	2.17	64.67	8,197.4	58.3	123.1	-53.0	0.00	0.00	0.00
8,300.0	2.17	64.67	8,297.4	59.9	126.5	-54.5	0.00	0.00	0.00
8,400.0	2.17	64.67	8,397.3	61.5	129.9	-56.0	0.00	0.00	0.00
8,500.0	2.17	64.67	8,497.2	63.1	133.4	-57.4	0.00	0.00	0.00
8,600.0	2.17	64.67	8,597.2	64.8	136.8	-58.9	0.00	0.00	0.00
8,700.0	2.17	64.67	8,697.1	66.4	140.2	-60.4	0.00	0.00	0.00
8,800.0	2.17	64.67	8,797.0	68.0	143.6	-61.9	0.00	0.00	0.00
8,900.0	2.17	64.67	8,896.9	69.6	147.1	-63.3	0.00	0.00	0.00
9,000.0	2.17	64.67	8,996.9	71.3	150.5	-64.8	0.00	0.00	0.00
9,100.0	2.17	64.67	9,096.8	72.9	153.9	-66.3	0.00	0.00	0.00
9,200.0	2.17	64.67	9,196.7	74.5	157.4	-67.8	0.00	0.00	0.00
9,300.0	2.17	64.67	9,296.7	76.1	160.8	-69.2	0.00	0.00	0.00
9,400.0	2.17	64.67	9,396.6	77.7	164.2	-70.7	0.00	0.00	0.00
9,500.0	2.17	64.67	9,496.5	79.4	167.6	-72.2	0.00	0.00	0.00
9,600.0	2.17	64.67	9,596.4	81.0	171.1	-73.7	0.00	0.00	0.00
9,700.0	2.17	64.67	9,696.4	82.6	174.5	-75.1	0.00	0.00	0.00
9,800.0	2.17	64.67	9,796.3	84.2	177.9	-76.6	0.00	0.00	0.00
9,900.0	2.17	64.67	9,896.2	85.9	181.3	-78.1	0.00	0.00	0.00
10,000.0	2.17	64.67	9,996.1	87.5	184.8	-79.6	0.00	0.00	0.00
10,100.0	2.17	64.67	10,096.1	89.1	188.2	-81.0	0.00	0.00	0.00
10,200.0	2.17	64.67	10,196.0	90.7	191.6	-82.5	0.00	0.00	0.00
10,300.0	2.17	64.67	10,295.9	92.3	195.1	-84.0	0.00	0.00	0.00
10,400.0	2.17	64.67	10,395.9	94.0	198.5	-85.5	0.00	0.00	0.00
10,500.0	2.17	64.67	10,495.8	95.6	201.9	-87.0	0.00	0.00	0.00
10,600.0	2.17	64.67	10,595.7	97.2	205.3	-88.4	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Antietam 9 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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)
10,700.0	2.17	64.67	10,695.6	98.8	208.8	-89.9	0.00	0.00	0.00
10,800.0	2.17	64.67	10,795.6	100.5	212.2	-91.4	0.00	0.00	0.00
10,900.0	2.17	64.67	10,895.5	102.1	215.6	-92.9	0.00	0.00	0.00
11,000.0	2.17	64.67	10,995.4	103.7	219.0	-94.3	0.00	0.00	0.00
11,100.0	2.17	64.67	11,095.4	105.3	222.5	-95.8	0.00	0.00	0.00
11,200.0	2.17	64.67	11,195.3	106.9	225.9	-97.3	0.00	0.00	0.00
11,300.0	2.17	64.67	11,295.2	108.6	229.3	-98.8	0.00	0.00	0.00
11,400.0	2.17	64.67	11,395.1	110.2	232.8	-100.2	0.00	0.00	0.00
11,500.0	2.17	64.67	11,495.1	111.8	236.2	-101.7	0.00	0.00	0.00
11,600.0	2.17	64.67	11,595.0	113.4	239.6	-103.2	0.00	0.00	0.00
11,700.0	2.17	64.67	11,694.9	115.1	243.0	-104.7	0.00	0.00	0.00
11,800.0	2.17	64.67	11,794.9	116.7	246.5	-106.1	0.00	0.00	0.00
11,900.0	2.17	64.67	11,894.8	118.3	249.9	-107.6	0.00	0.00	0.00
11,950.4	2.17	64.67	11,945.2	119.1	251.6	-108.4	0.00	0.00	0.00
11,975.0	2.83	135.50	11,969.7	118.9	252.5	-108.1	12.00	2.67	288.40
12,000.0	5.40	158.28	11,994.7	117.4	253.3	-106.5	12.00	10.29	91.13
12,025.0	8.27	165.92	12,019.5	114.5	254.2	-103.7	12.00	11.46	30.56
12,050.0	11.20	169.62	12,044.1	110.4	255.1	-99.5	12.00	11.74	14.77
12,075.0	14.17	171.79	12,068.5	105.0	256.0	-94.0	12.00	11.85	8.68
12,100.0	17.14	173.22	12,092.6	98.3	256.8	-87.3	12.00	11.90	5.72
12,125.0	20.12	174.23	12,116.3	90.3	257.7	-79.3	12.00	11.93	4.07
12,150.0	23.11	175.00	12,139.5	81.2	258.6	-70.2	12.00	11.95	3.05
12,175.0	26.10	175.59	12,162.2	70.8	259.4	-59.8	12.00	11.96	2.39
12,200.0	29.09	176.07	12,184.4	59.3	260.2	-48.2	12.00	11.97	1.93
12,225.0	32.08	176.47	12,205.9	46.6	261.1	-35.5	12.00	11.97	1.60
12,250.0	35.08	176.81	12,226.7	32.8	261.9	-21.6	12.00	11.98	1.35
12,275.0	38.07	177.10	12,246.8	17.9	262.7	-6.7	12.00	11.98	1.16
12,300.0	41.07	177.36	12,266.1	2.0	263.4	9.2	12.00	11.98	1.02
12,325.0	44.07	177.58	12,284.5	-14.9	264.2	26.1	12.00	11.98	0.90
12,350.0	47.06	177.79	12,302.0	-32.8	264.9	43.9	12.00	11.99	0.81
12,375.0	50.06	177.97	12,318.5	-51.5	265.6	62.7	12.00	11.99	0.73
12,400.0	53.06	178.14	12,334.1	-71.0	266.3	82.3	12.00	11.99	0.67
12,425.0	56.05	178.29	12,348.6	-91.4	266.9	102.6	12.00	11.99	0.62
12,450.0	59.05	178.44	12,362.0	-112.5	267.5	123.7	12.00	11.99	0.58
12,475.0	62.05	178.57	12,374.3	-134.2	268.1	145.5	12.00	11.99	0.54
12,500.0	65.05	178.70	12,385.4	-156.6	268.6	167.9	12.00	11.99	0.51
12,524.6	67.99	178.82	12,395.2	-179.1	269.1	190.4	12.00	11.99	0.49
FTP (Ant 9 Fed #704H)									
12,525.0	68.04	178.83	12,395.3	-179.5	269.1	190.8	12.00	11.99	0.48
12,550.0	71.04	178.94	12,404.1	-203.0	269.5	214.2	12.00	11.99	0.47
12,575.0	74.04	179.06	12,411.6	-226.8	270.0	238.0	12.00	11.99	0.45
12,600.0	77.04	179.17	12,417.8	-251.0	270.3	262.2	12.00	11.99	0.44
12,625.0	80.04	179.27	12,422.8	-275.5	270.7	286.7	12.00	11.99	0.43
12,650.0	83.03	179.38	12,426.5	-300.2	271.0	311.4	12.00	11.99	0.42
12,675.0	86.03	179.48	12,428.9	-325.1	271.2	336.3	12.00	11.99	0.42
12,700.0	89.03	179.59	12,429.9	-350.1	271.4	361.3	12.00	11.99	0.41
12,708.1	90.00	179.62	12,430.0	-358.2	271.5	369.3	12.00	11.99	0.41
12,800.0	90.00	179.62	12,430.0	-450.1	272.1	461.2	0.00	0.00	0.00
12,900.0	90.00	179.62	12,430.0	-550.1	272.7	561.1	0.00	0.00	0.00
13,000.0	90.00	179.62	12,430.0	-650.1	273.4	661.1	0.00	0.00	0.00
13,100.0	90.00	179.62	12,430.0	-750.1	274.1	761.0	0.00	0.00	0.00
13,200.0	90.00	179.62	12,430.0	-850.1	274.7	860.9	0.00	0.00	0.00
13,300.0	90.00	179.62	12,430.0	-950.1	275.4	960.9	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: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
 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	179.62	12,430.0	-1,050.1	276.1	1,060.8	0.00	0.00	0.00
13,500.0	90.00	179.62	12,430.0	-1,150.1	276.7	1,160.8	0.00	0.00	0.00
13,600.0	90.00	179.62	12,430.0	-1,250.1	277.4	1,260.7	0.00	0.00	0.00
13,700.0	90.00	179.62	12,430.0	-1,350.1	278.0	1,360.6	0.00	0.00	0.00
13,800.0	90.00	179.62	12,430.0	-1,450.1	278.7	1,460.6	0.00	0.00	0.00
13,900.0	90.00	179.62	12,430.0	-1,550.1	279.4	1,560.5	0.00	0.00	0.00
14,000.0	90.00	179.62	12,430.0	-1,650.1	280.0	1,660.4	0.00	0.00	0.00
14,100.0	90.00	179.62	12,430.0	-1,750.1	280.7	1,760.4	0.00	0.00	0.00
14,200.0	90.00	179.62	12,430.0	-1,850.0	281.4	1,860.3	0.00	0.00	0.00
14,300.0	90.00	179.62	12,430.0	-1,950.0	282.0	1,960.2	0.00	0.00	0.00
14,400.0	90.00	179.62	12,430.0	-2,050.0	282.7	2,060.2	0.00	0.00	0.00
14,500.0	90.00	179.62	12,430.0	-2,150.0	283.4	2,160.1	0.00	0.00	0.00
14,600.0	90.00	179.62	12,430.0	-2,250.0	284.0	2,260.0	0.00	0.00	0.00
14,700.0	90.00	179.62	12,430.0	-2,350.0	284.7	2,360.0	0.00	0.00	0.00
14,800.0	90.00	179.62	12,430.0	-2,450.0	285.3	2,459.9	0.00	0.00	0.00
14,900.0	90.00	179.62	12,430.0	-2,550.0	286.0	2,559.9	0.00	0.00	0.00
15,000.0	90.00	179.62	12,430.0	-2,650.0	286.7	2,659.8	0.00	0.00	0.00
15,100.0	90.00	179.62	12,430.0	-2,750.0	287.3	2,759.7	0.00	0.00	0.00
15,200.0	90.00	179.62	12,430.0	-2,850.0	288.0	2,859.7	0.00	0.00	0.00
15,300.0	90.00	179.62	12,430.0	-2,950.0	288.7	2,959.6	0.00	0.00	0.00
15,400.0	90.00	179.62	12,430.0	-3,050.0	289.3	3,059.5	0.00	0.00	0.00
15,500.0	90.00	179.62	12,430.0	-3,150.0	290.0	3,159.5	0.00	0.00	0.00
15,600.0	90.00	179.62	12,430.0	-3,250.0	290.6	3,259.4	0.00	0.00	0.00
15,700.0	90.00	179.62	12,430.0	-3,350.0	291.3	3,359.3	0.00	0.00	0.00
15,800.0	90.00	179.62	12,430.0	-3,450.0	292.0	3,459.3	0.00	0.00	0.00
15,900.0	90.00	179.62	12,430.0	-3,550.0	292.6	3,559.2	0.00	0.00	0.00
16,000.0	90.00	179.62	12,430.0	-3,650.0	293.3	3,659.2	0.00	0.00	0.00
16,100.0	90.00	179.62	12,430.0	-3,750.0	294.0	3,759.1	0.00	0.00	0.00
16,200.0	90.00	179.62	12,430.0	-3,850.0	294.6	3,859.0	0.00	0.00	0.00
16,300.0	90.00	179.62	12,430.0	-3,950.0	295.3	3,959.0	0.00	0.00	0.00
16,400.0	90.00	179.62	12,430.0	-4,050.0	296.0	4,058.9	0.00	0.00	0.00
16,500.0	90.00	179.62	12,430.0	-4,150.0	296.6	4,158.8	0.00	0.00	0.00
16,600.0	90.00	179.62	12,430.0	-4,250.0	297.3	4,258.8	0.00	0.00	0.00
16,700.0	90.00	179.62	12,430.0	-4,350.0	297.9	4,358.7	0.00	0.00	0.00
16,800.0	90.00	179.62	12,430.0	-4,450.0	298.6	4,458.6	0.00	0.00	0.00
16,900.0	90.00	179.62	12,430.0	-4,550.0	299.3	4,558.6	0.00	0.00	0.00
17,000.0	90.00	179.62	12,430.0	-4,650.0	299.9	4,658.5	0.00	0.00	0.00
17,100.0	90.00	179.62	12,430.0	-4,750.0	300.6	4,758.5	0.00	0.00	0.00
17,200.0	90.00	179.62	12,430.0	-4,850.0	301.3	4,858.4	0.00	0.00	0.00
17,300.0	90.00	179.62	12,430.0	-4,950.0	301.9	4,958.3	0.00	0.00	0.00
17,400.0	90.00	179.62	12,430.0	-5,050.0	302.6	5,058.3	0.00	0.00	0.00
17,500.0	90.00	179.62	12,430.0	-5,150.0	303.2	5,158.2	0.00	0.00	0.00
17,600.0	90.00	179.62	12,430.0	-5,250.0	303.9	5,258.1	0.00	0.00	0.00
17,700.0	90.00	179.62	12,430.0	-5,350.0	304.6	5,358.1	0.00	0.00	0.00
17,800.0	90.00	179.62	12,430.0	-5,450.0	305.2	5,458.0	0.00	0.00	0.00
17,900.0	90.00	179.62	12,430.0	-5,550.0	305.9	5,557.9	0.00	0.00	0.00
18,000.0	90.00	179.62	12,430.0	-5,650.0	306.6	5,657.9	0.00	0.00	0.00
18,100.0	90.00	179.62	12,430.0	-5,750.0	307.2	5,757.8	0.00	0.00	0.00
18,200.0	90.00	179.62	12,430.0	-5,850.0	307.9	5,857.8	0.00	0.00	0.00
18,300.0	90.00	179.62	12,430.0	-5,950.0	308.6	5,957.7	0.00	0.00	0.00
18,400.0	90.00	179.62	12,430.0	-6,050.0	309.2	6,057.6	0.00	0.00	0.00
18,500.0	90.00	179.62	12,430.0	-6,150.0	309.9	6,157.6	0.00	0.00	0.00
18,600.0	90.00	179.62	12,430.0	-6,250.0	310.5	6,257.5	0.00	0.00	0.00
18,700.0	90.00	179.62	12,430.0	-6,349.9	311.2	6,357.4	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

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Site: Antietam 9 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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)
18,800.0	90.00	179.62	12,430.0	-6,449.9	311.9	6,457.4	0.00	0.00	0.00
18,900.0	90.00	179.62	12,430.0	-6,549.9	312.5	6,557.3	0.00	0.00	0.00
19,000.0	90.00	179.62	12,430.0	-6,649.9	313.2	6,657.2	0.00	0.00	0.00
19,100.0	90.00	179.62	12,430.0	-6,749.9	313.9	6,757.2	0.00	0.00	0.00
19,200.0	90.00	179.62	12,430.0	-6,849.9	314.5	6,857.1	0.00	0.00	0.00
19,300.0	90.00	179.62	12,430.0	-6,949.9	315.2	6,957.0	0.00	0.00	0.00
19,400.0	90.00	179.62	12,430.0	-7,049.9	315.8	7,057.0	0.00	0.00	0.00
19,500.0	90.00	179.62	12,430.0	-7,149.9	316.5	7,156.9	0.00	0.00	0.00
19,600.0	90.00	179.62	12,430.0	-7,249.9	317.2	7,256.9	0.00	0.00	0.00
19,700.0	90.00	179.62	12,430.0	-7,349.9	317.8	7,356.8	0.00	0.00	0.00
19,800.0	90.00	179.62	12,430.0	-7,449.9	318.5	7,456.7	0.00	0.00	0.00
19,875.1	90.00	179.62	12,430.0	-7,525.0	319.0	7,531.8	0.00	0.00	0.00
PBHL (Ant 9 Fed #704H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Ant 9 Fed #704H)	0.00	0.00	12,430.0	-7,525.0	319.0	412,232.00	733,861.00	32° 7' 51.917 N	103° 34' 40.306 W
- plan hits target center									
- Point									
FTP (Ant 9 Fed #704H)	0.00	0.00	12,430.0	-164.0	270.0	419,593.00	733,812.00	32° 9' 4.762 N	103° 34' 40.276 W
- plan misses target center by 38.0usft at 12524.6usft MD (12395.2 TVD, -179.1 N, 269.1 E)									
- Point									