



Lea County, NM (NAD 27 NME)

Gem 36 State Com #703H

H&P 415

Plan #0.1

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: #703H

Ground Level: 3425.0
KB = 25 @ 3455.50 ft (H&P 415)
Northing: 297963.00 Easting: 719641.00 Latitude: 32° 5' 21.851 N Longitude: 103° 37' 53.272 W



Altimeter to Grid North
True North: -4.38°
Magnetic North: 8.89°

Magnetic Field
Strength: 47945.4nT
Dip Angle: 59.94°
Date: 7/24/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction: Add 8.89°
To convert a Magnetic Direction to a True Direction: Add 3.51° East
To convert a True Direction to a Grid Direction: Subtract 3.51°

SECTION DETAILS

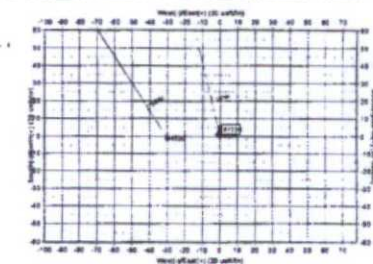
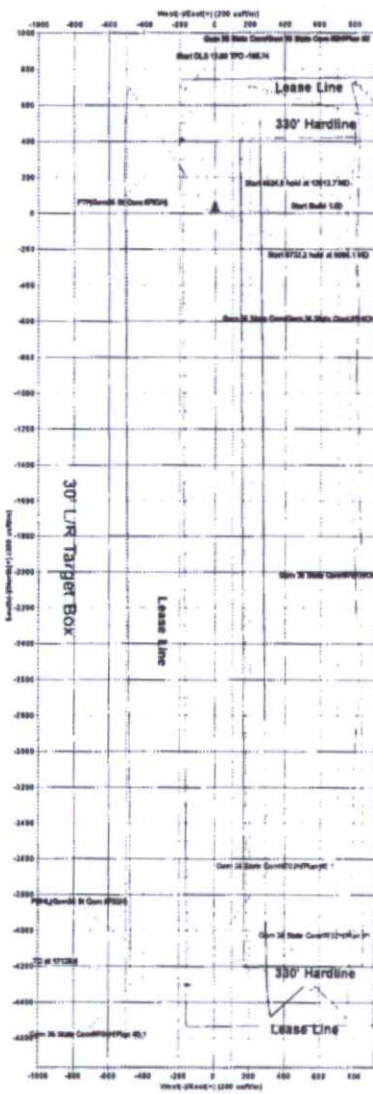
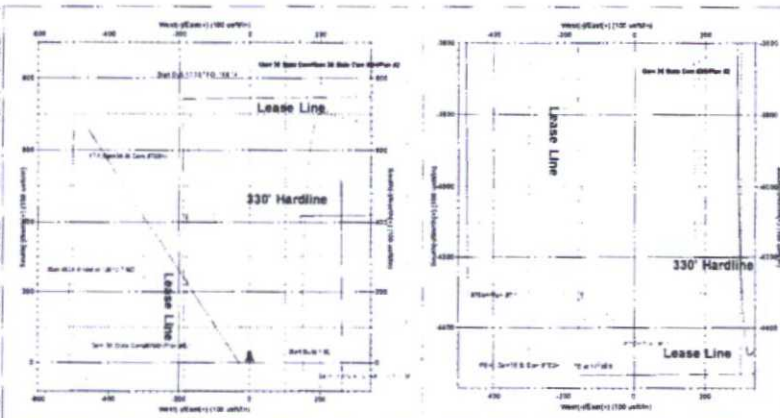
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	5084.1	5.84	346.45	5083.1	28.9	-7.0	1.00	346.45	-28.7	
4	11816.3	5.84	346.45	11780.4	695.0	-167.5	0.00	0.00	-688.8	
5	12813.7	90.00	179.65	12305.0	219.8	-176.8	12.00	-166.74	-213.6	
6	17138.6	90.00	179.65	12305.0	-4305.0	-149.0	0.00	0.00	4307.6	PBHL(Gem36 St Com #703H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTPD(Gem36 St Com #703H)	12305.0	412.0	-176.8	298075.00	719763.00
PBHL(Gem36 St Com #703H)	12305.0	-4305.0	-149.0	298066.00	719792.00



DEC 04 2015



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Gem 36 State Com

#703H

OH

Plan: Plan #0.1

Standard Planning Report

26 October, 2015



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Gem 36 State Cor
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3450.0usft (H&P 415)
MD Reference: KB = 25 @ 3450.0usft (H&P 415)
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	Gem 36 State Cor				
Site Position:		Northing:	393,654.00 usft	Latitude:	32° 4' 48.974 N
From: Map		Easting:	720,486.00 usft	Longitude:	103° 37' 17.267 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 "

Well	#703H					
Well Position	+N/-S	4,309.0 usft	Northing:	397,963.00 usft	Latitude:	32° 5' 31.651 N
	+E/-W	-545.0 usft	Easting:	719,941.00 usft	Longitude:	103° 37' 23.272 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,425.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/24/2016	7.07	59.94	47,946

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	181.98

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	
5,084.1	5.84	346.45	5,083.1	28.9	-7.0	1.00	1.00	0.00	346.45	
11,816.3	5.84	346.45	11,780.4	695.0	-167.5	0.00	0.00	0.00	0.00	
12,613.7	90.00	179.65	12,305.0	219.8	-176.8	12.00	10.55	-20.92	-166.74	
17,138.6	90.00	179.65	12,305.0	-4,305.0	-149.0	0.00	0.00	0.00	0.00	PBHL(Gem36 St Cor)



EOG Resources, Inc.

Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Gem 36 State Com
 Well: #703H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3450.0usft (H&P 415)
 MD Reference: KB = 25 @ 3450.0usft (H&P 415)
 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	346.45	4,600.0	0.8	-0.2	-0.8	1.00	1.00	0.00
4,700.0	2.00	346.45	4,700.0	3.4	-0.8	-3.4	1.00	1.00	0.00
4,800.0	3.00	346.45	4,799.9	7.6	-1.8	-7.6	1.00	1.00	0.00
4,900.0	4.00	346.45	4,899.7	13.6	-3.3	-13.4	1.00	1.00	0.00
5,000.0	5.00	346.45	4,999.4	21.2	-5.1	-21.0	1.00	1.00	0.00
5,084.1	5.84	346.45	5,083.1	28.9	-7.0	-28.7	1.00	1.00	0.00
5,100.0	5.84	346.45	5,098.9	30.5	-7.3	-30.2	0.00	0.00	0.00
5,200.0	5.84	346.45	5,198.4	40.4	-9.7	-40.0	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: Gem 36 State Corn
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3450.0usft (H&P 415)
MD Reference: KB = 25 @ 3450.0usft (H&P 415)
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	5.84	346.45	5,297.9	50.3	-12.1	-49.8	0.00	0.00	0.00
5,400.0	5.84	346.45	5,397.3	60.2	-14.5	-59.6	0.00	0.00	0.00
5,500.0	5.84	346.45	5,496.8	70.1	-16.9	-69.4	0.00	0.00	0.00
5,600.0	5.84	346.45	5,596.3	80.0	-19.3	-79.2	0.00	0.00	0.00
5,700.0	5.84	346.45	5,695.8	89.9	-21.7	-89.1	0.00	0.00	0.00
5,800.0	5.84	346.45	5,795.3	99.7	-24.0	-98.9	0.00	0.00	0.00
5,900.0	5.84	346.45	5,894.8	109.6	-26.4	-108.7	0.00	0.00	0.00
6,000.0	5.84	346.45	5,994.2	119.5	-28.8	-118.5	0.00	0.00	0.00
6,100.0	5.84	346.45	6,093.7	129.4	-31.2	-128.3	0.00	0.00	0.00
6,200.0	5.84	346.45	6,193.2	139.3	-33.6	-138.1	0.00	0.00	0.00
6,300.0	5.84	346.45	6,292.7	149.2	-36.0	-147.9	0.00	0.00	0.00
6,400.0	5.84	346.45	6,392.2	159.1	-38.3	-157.7	0.00	0.00	0.00
6,500.0	5.84	346.45	6,491.6	169.0	-40.7	-167.5	0.00	0.00	0.00
6,600.0	5.84	346.45	6,591.1	178.9	-43.1	-177.3	0.00	0.00	0.00
6,700.0	5.84	346.45	6,690.6	188.8	-45.5	-187.1	0.00	0.00	0.00
6,800.0	5.84	346.45	6,790.1	198.7	-47.9	-196.9	0.00	0.00	0.00
6,900.0	5.84	346.45	6,889.6	208.6	-50.3	-206.7	0.00	0.00	0.00
7,000.0	5.84	346.45	6,989.0	218.5	-52.7	-216.5	0.00	0.00	0.00
7,100.0	5.84	346.45	7,088.5	228.4	-55.0	-226.3	0.00	0.00	0.00
7,200.0	5.84	346.45	7,188.0	238.3	-57.4	-236.1	0.00	0.00	0.00
7,300.0	5.84	346.45	7,287.5	248.2	-59.8	-245.9	0.00	0.00	0.00
7,400.0	5.84	346.45	7,387.0	258.1	-62.2	-255.7	0.00	0.00	0.00
7,500.0	5.84	346.45	7,486.4	267.9	-64.6	-265.6	0.00	0.00	0.00
7,600.0	5.84	346.45	7,585.9	277.8	-67.0	-275.4	0.00	0.00	0.00
7,700.0	5.84	346.45	7,685.4	287.7	-69.3	-285.2	0.00	0.00	0.00
7,800.0	5.84	346.45	7,784.9	297.6	-71.7	-295.0	0.00	0.00	0.00
7,900.0	5.84	346.45	7,884.4	307.5	-74.1	-304.8	0.00	0.00	0.00
8,000.0	5.84	346.45	7,983.8	317.4	-76.5	-314.6	0.00	0.00	0.00
8,100.0	5.84	346.45	8,083.3	327.3	-78.9	-324.4	0.00	0.00	0.00
8,200.0	5.84	346.45	8,182.8	337.2	-81.3	-334.2	0.00	0.00	0.00
8,300.0	5.84	346.45	8,282.3	347.1	-83.6	-344.0	0.00	0.00	0.00
8,400.0	5.84	346.45	8,381.8	357.0	-86.0	-353.8	0.00	0.00	0.00
8,500.0	5.84	346.45	8,481.3	366.9	-88.4	-363.6	0.00	0.00	0.00
8,600.0	5.84	346.45	8,580.7	376.8	-90.8	-373.4	0.00	0.00	0.00
8,700.0	5.84	346.45	8,680.2	386.7	-93.2	-383.2	0.00	0.00	0.00
8,800.0	5.84	346.45	8,779.7	396.6	-95.6	-393.0	0.00	0.00	0.00
8,900.0	5.84	346.45	8,879.2	406.5	-98.0	-402.8	0.00	0.00	0.00
9,000.0	5.84	346.45	8,978.7	416.4	-100.3	-412.6	0.00	0.00	0.00
9,100.0	5.84	346.45	9,078.1	426.2	-102.7	-422.4	0.00	0.00	0.00
9,200.0	5.84	346.45	9,177.6	436.1	-105.1	-432.2	0.00	0.00	0.00
9,300.0	5.84	346.45	9,277.1	446.0	-107.5	-442.0	0.00	0.00	0.00
9,400.0	5.84	346.45	9,376.6	455.9	-109.9	-451.9	0.00	0.00	0.00
9,500.0	5.84	346.45	9,476.1	465.8	-112.3	-461.7	0.00	0.00	0.00
9,600.0	5.84	346.45	9,575.5	475.7	-114.6	-471.5	0.00	0.00	0.00
9,700.0	5.84	346.45	9,675.0	485.6	-117.0	-481.3	0.00	0.00	0.00
9,800.0	5.84	346.45	9,774.5	495.5	-119.4	-491.1	0.00	0.00	0.00
9,900.0	5.84	346.45	9,874.0	505.4	-121.8	-500.9	0.00	0.00	0.00
10,000.0	5.84	346.45	9,973.5	515.3	-124.2	-510.7	0.00	0.00	0.00
10,100.0	5.84	346.45	10,072.9	525.2	-126.6	-520.5	0.00	0.00	0.00
10,200.0	5.84	346.45	10,172.4	535.1	-128.9	-530.3	0.00	0.00	0.00
10,300.0	5.84	346.45	10,271.9	545.0	-131.3	-540.1	0.00	0.00	0.00
10,400.0	5.84	346.45	10,371.4	554.9	-133.7	-549.9	0.00	0.00	0.00
10,500.0	5.84	346.45	10,470.9	564.8	-136.1	-559.7	0.00	0.00	0.00
10,600.0	5.84	346.45	10,570.3	574.7	-138.5	-569.5	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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MD Reference: KB = 25 @ 3450.0usft (H&P 415)
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	5.84	346.45	10,669.8	584.5	-140.9	-579.3	0.00	0.00	0.00
10,800.0	5.84	346.45	10,769.3	594.4	-143.3	-589.1	0.00	0.00	0.00
10,900.0	5.84	346.45	10,868.8	604.3	-145.6	-598.9	0.00	0.00	0.00
11,000.0	5.84	346.45	10,968.3	614.2	-148.0	-608.7	0.00	0.00	0.00
11,100.0	5.84	346.45	11,067.8	624.1	-150.4	-618.5	0.00	0.00	0.00
11,200.0	5.84	346.45	11,167.2	634.0	-152.8	-628.4	0.00	0.00	0.00
11,300.0	5.84	346.45	11,266.7	643.9	-155.2	-638.2	0.00	0.00	0.00
11,400.0	5.84	346.45	11,366.2	653.8	-157.6	-648.0	0.00	0.00	0.00
11,500.0	5.84	346.45	11,465.7	663.7	-159.9	-657.8	0.00	0.00	0.00
11,600.0	5.84	346.45	11,565.2	673.6	-162.3	-667.6	0.00	0.00	0.00
11,700.0	5.84	346.45	11,664.6	683.5	-164.7	-677.4	0.00	0.00	0.00
11,800.0	5.84	346.45	11,764.1	693.4	-167.1	-687.2	0.00	0.00	0.00
11,816.3	5.84	346.45	11,780.4	695.0	-167.5	-688.8	0.00	0.00	0.00
11,825.0	4.84	343.62	11,789.0	695.8	-167.7	-689.6	12.00	-11.81	-32.68
11,850.0	2.12	320.56	11,813.9	697.1	-168.3	-690.9	12.00	-10.85	-92.23
11,875.0	1.90	224.31	11,838.9	697.2	-168.9	-690.9	12.00	-0.87	-385.01
11,900.0	4.55	196.70	11,863.9	696.0	-169.4	-689.7	12.00	10.60	-110.45
11,925.0	7.47	189.90	11,888.8	693.4	-170.0	-687.1	12.00	11.68	-27.18
11,950.0	10.44	186.93	11,913.5	689.6	-170.6	-683.2	12.00	11.86	-11.89
11,975.0	13.42	185.27	11,937.9	684.4	-171.1	-678.1	12.00	11.92	-6.66
12,000.0	16.41	184.20	11,962.1	678.0	-171.6	-671.7	12.00	11.95	-4.27
12,025.0	19.40	183.45	11,985.9	670.3	-172.1	-664.0	12.00	11.97	-2.99
12,050.0	22.39	182.90	12,009.2	661.4	-172.6	-655.1	12.00	11.97	-2.21
12,075.0	25.39	182.47	12,032.1	651.3	-173.1	-644.9	12.00	11.98	-1.71
12,100.0	28.38	182.13	12,054.4	640.0	-173.5	-633.6	12.00	11.98	-1.37
12,125.0	31.38	181.84	12,076.0	627.6	-174.0	-621.2	12.00	11.99	-1.13
12,150.0	34.38	181.60	12,097.0	614.0	-174.4	-607.6	12.00	11.99	-0.95
12,175.0	37.37	181.40	12,117.3	599.4	-174.8	-593.0	12.00	11.99	-0.82
12,200.0	40.37	181.22	12,136.7	583.7	-175.1	-577.3	12.00	11.99	-0.71
12,225.0	43.37	181.06	12,155.4	567.0	-175.5	-560.6	12.00	11.99	-0.63
12,250.0	46.37	180.92	12,173.1	549.4	-175.8	-543.0	12.00	11.99	-0.56
12,275.0	49.37	180.80	12,189.8	530.8	-176.0	-524.4	12.00	11.99	-0.51
12,300.0	52.37	180.68	12,205.6	511.5	-176.3	-505.0	12.00	11.99	-0.47
12,325.0	55.36	180.57	12,220.4	491.3	-176.5	-484.9	12.00	11.99	-0.43
12,350.0	58.36	180.47	12,234.0	470.3	-176.7	-463.9	12.00	12.00	-0.40
12,375.0	61.36	180.38	12,246.6	448.7	-176.9	-442.3	12.00	12.00	-0.37
12,400.0	64.36	180.29	12,258.0	426.5	-177.0	-420.1	12.00	12.00	-0.35
12,425.0	67.36	180.21	12,268.2	403.7	-177.1	-397.3	12.00	12.00	-0.34
12,430.5	68.02	180.19	12,270.3	398.6	-177.1	-392.2	12.00	12.00	-0.33
FTP(Gem36 St Com #703H)									
12,450.0	70.36	180.13	12,277.2	380.3	-177.2	-374.0	12.00	12.00	-0.32
12,475.0	73.36	180.05	12,285.0	356.6	-177.2	-350.3	12.00	12.00	-0.31
12,500.0	76.36	179.97	12,291.5	332.5	-177.2	-326.1	12.00	12.00	-0.30
12,525.0	79.36	179.90	12,296.8	308.0	-177.2	-301.7	12.00	12.00	-0.29
12,550.0	82.36	179.83	12,300.8	283.3	-177.1	-277.1	12.00	12.00	-0.29
12,575.0	85.35	179.76	12,303.4	258.5	-177.0	-252.2	12.00	12.00	-0.28
12,600.0	88.35	179.69	12,304.8	233.5	-176.9	-227.3	12.00	12.00	-0.28
12,613.7	90.00	179.65	12,305.0	219.8	-176.8	-213.6	12.00	12.00	-0.28
12,700.0	90.00	179.65	12,305.0	133.5	-176.3	-127.4	0.00	0.00	0.00
12,800.0	90.00	179.65	12,305.0	33.5	-175.7	-27.4	0.00	0.00	0.00
12,900.0	90.00	179.65	12,305.0	-66.5	-175.1	72.5	0.00	0.00	0.00
13,000.0	90.00	179.65	12,305.0	-166.5	-174.4	172.4	0.00	0.00	0.00
13,100.0	90.00	179.65	12,305.0	-266.5	-173.8	272.3	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: Gem 36 State Com
 Well: #703H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3450.0usft (H&P 415)
 MD Reference: KB = 25 @ 3450.0usft (H&P 415)
 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)
13,200.0	90.00	179.65	12,305.0	-366.5	-173.2	372.2	0.00	0.00	0.00
13,300.0	90.00	179.65	12,305.0	-466.5	-172.6	472.1	0.00	0.00	0.00
13,400.0	90.00	179.65	12,305.0	-566.4	-172.0	572.1	0.00	0.00	0.00
13,500.0	90.00	179.65	12,305.0	-666.4	-171.4	672.0	0.00	0.00	0.00
13,600.0	90.00	179.65	12,305.0	-766.4	-170.8	771.9	0.00	0.00	0.00
13,700.0	90.00	179.65	12,305.0	-866.4	-170.1	871.8	0.00	0.00	0.00
13,800.0	90.00	179.65	12,305.0	-966.4	-169.5	971.7	0.00	0.00	0.00
13,900.0	90.00	179.65	12,305.0	-1,066.4	-168.9	1,071.6	0.00	0.00	0.00
14,000.0	90.00	179.65	12,305.0	-1,166.4	-168.3	1,171.6	0.00	0.00	0.00
14,100.0	90.00	179.65	12,305.0	-1,266.4	-167.7	1,271.5	0.00	0.00	0.00
14,200.0	90.00	179.65	12,305.0	-1,366.4	-167.1	1,371.4	0.00	0.00	0.00
14,300.0	90.00	179.65	12,305.0	-1,466.4	-166.5	1,471.3	0.00	0.00	0.00
14,400.0	90.00	179.65	12,305.0	-1,566.4	-165.8	1,571.2	0.00	0.00	0.00
14,500.0	90.00	179.65	12,305.0	-1,666.4	-165.2	1,671.1	0.00	0.00	0.00
14,600.0	90.00	179.65	12,305.0	-1,766.4	-164.6	1,771.1	0.00	0.00	0.00
14,700.0	90.00	179.65	12,305.0	-1,866.4	-164.0	1,871.0	0.00	0.00	0.00
14,800.0	90.00	179.65	12,305.0	-1,966.4	-163.4	1,970.9	0.00	0.00	0.00
14,900.0	90.00	179.65	12,305.0	-2,066.4	-162.8	2,070.8	0.00	0.00	0.00
15,000.0	90.00	179.65	12,305.0	-2,166.4	-162.1	2,170.7	0.00	0.00	0.00
15,100.0	90.00	179.65	12,305.0	-2,266.4	-161.5	2,270.6	0.00	0.00	0.00
15,200.0	90.00	179.65	12,305.0	-2,366.4	-160.9	2,370.6	0.00	0.00	0.00
15,300.0	90.00	179.65	12,305.0	-2,466.4	-160.3	2,470.5	0.00	0.00	0.00
15,400.0	90.00	179.65	12,305.0	-2,566.4	-159.7	2,570.4	0.00	0.00	0.00
15,500.0	90.00	179.65	12,305.0	-2,666.4	-159.1	2,670.3	0.00	0.00	0.00
15,600.0	90.00	179.65	12,305.0	-2,766.4	-158.5	2,770.2	0.00	0.00	0.00
15,700.0	90.00	179.65	12,305.0	-2,866.4	-157.8	2,870.1	0.00	0.00	0.00
15,800.0	90.00	179.65	12,305.0	-2,966.4	-157.2	2,970.1	0.00	0.00	0.00
15,900.0	90.00	179.65	12,305.0	-3,066.4	-156.6	3,070.0	0.00	0.00	0.00
16,000.0	90.00	179.65	12,305.0	-3,166.4	-156.0	3,169.9	0.00	0.00	0.00
16,100.0	90.00	179.65	12,305.0	-3,266.4	-155.4	3,269.8	0.00	0.00	0.00
16,200.0	90.00	179.65	12,305.0	-3,366.4	-154.8	3,369.7	0.00	0.00	0.00
16,300.0	90.00	179.65	12,305.0	-3,466.4	-154.2	3,469.7	0.00	0.00	0.00
16,400.0	90.00	179.65	12,305.0	-3,566.4	-153.5	3,569.6	0.00	0.00	0.00
16,500.0	90.00	179.65	12,305.0	-3,666.4	-152.9	3,669.5	0.00	0.00	0.00
16,600.0	90.00	179.65	12,305.0	-3,766.4	-152.3	3,769.4	0.00	0.00	0.00
16,700.0	90.00	179.65	12,305.0	-3,866.4	-151.7	3,869.3	0.00	0.00	0.00
16,800.0	90.00	179.65	12,305.0	-3,966.4	-151.1	3,969.2	0.00	0.00	0.00
16,900.0	90.00	179.65	12,305.0	-4,066.4	-150.5	4,069.2	0.00	0.00	0.00
17,000.0	90.00	179.65	12,305.0	-4,166.4	-149.9	4,169.1	0.00	0.00	0.00
17,100.0	90.00	179.65	12,305.0	-4,266.4	-149.2	4,269.0	0.00	0.00	0.00
17,138.6	90.00	179.65	12,305.0	-4,305.0	-149.0	4,307.6	0.00	0.00	0.00

PBHL(Gem36 St Com #703H)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Gem 36 State Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3450.0usft (H&P 415)
MD Reference: KB = 25 @ 3450.0usft (H&P 415)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL(Gem36 St Com #	0.00	0.00	12,305.0	-4,305.0	-149.0	393,658.00	719,792.00	32° 4' 49.059 N	103° 37' 25.333 W
- plan hits target center									
- Point									
FTP(Gem36 St Com #7(	0.00	0.00	12,305.0	412.0	-178.0	398,375.00	719,763.00	32° 5' 35.740 N	103° 37' 25.309 W
- plan misses target center by 37.2usft at 12430.5usft MD (12270.3 TVD, 398.6 N, -177.1 E)									
- Point									