



Lea County, NM (NAD 83 NME)

Gem 36 State Com #704H

Plan #0.1



Azimuths to Grid North
True North: -0.28°
Magnetic North: 6.61°

Magnetic Field
Strength: 47068.0anT
Dip Angle: 58.54°
Date: 4/27/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 6.66° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR8 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #704H

Ground Level: 3422.00
KB = 25' @ 3447.00uoft
Northing: 398425.00
Easting: 760298.00
Latitude: 33.59337719
Longitude: -103.45639823

SECTION DETAILS

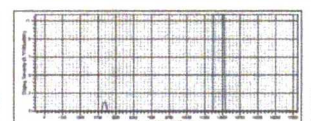
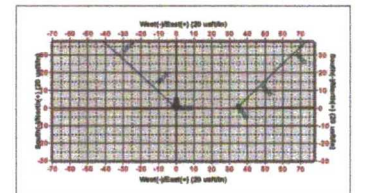
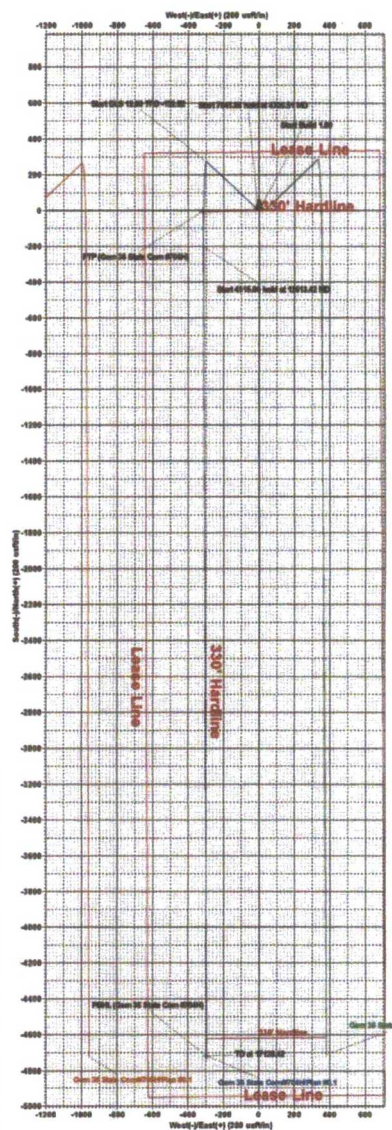
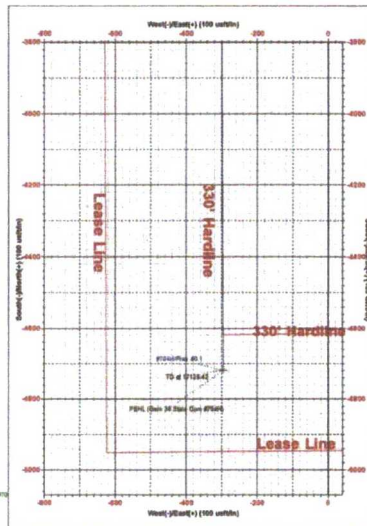
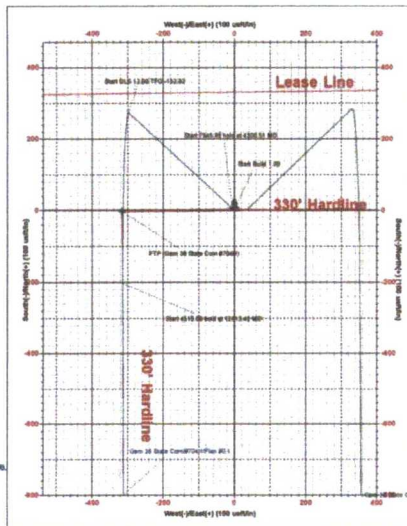
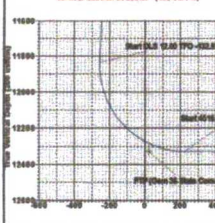
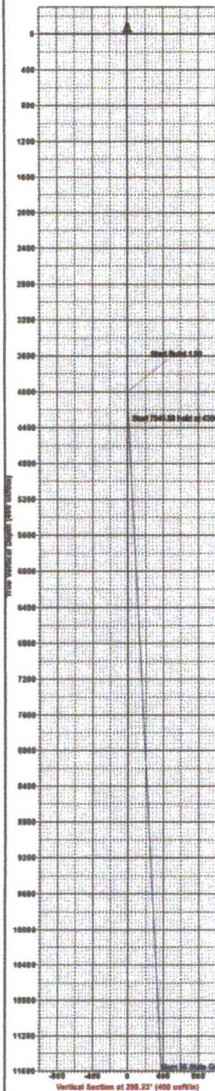
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Deg	TFace	V/Sect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4090.00	0.00	0.00	4090.00	0.00	0.00	0.00	0.00	0.00		
3	4390.81	3.01	312.82	4390.37	6.33	-8.80	1.00	312.82	-4.96		
4	11646.39	3.01	312.82	11656.37	275.20	-295.90	0.00	0.00	-254.14		
5	12813.42	90.00	179.76	12330.00	-304.04	-313.91	12.00	-132.82	223.23		
6	17128.42	90.00	179.76	12330.00	-4719.00	-295.00	0.00	0.00	4728.21		PSHL (Gem 36 State Com #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PSHL (Gem 36 State Com #704H)	12330.00	-4719.00	-295.00	398425.00	760298.00
FTP (Gem 36 State Com #704H)	12330.00	-3.00	-316.00	398422.00	760043.00



PSHL (Gem 36 State Com #704H)
FTP (Gem 36 State Com #704H)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#704H

OH

Plan: Plan #0.1

Standard Planning Report

28 April, 2017



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3447.00usft
MD Reference: KB = 25' @ 3447.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Gem 36 State Com		
Site Position:		Northing:	393,698.00 usft
From:	Map	Easting:	760,159.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.08038562
		Longitude:	-103.62682111
		Grid Convergence:	0.38 °

Well	#704H		
Well Position	+N/-S	4,727.00 usft	Northing: 398,425.00 usft
	+E/-W	100.00 usft	Easting: 760,259.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.09337718
		Longitude:	-103.62639823
		Ground Level:	3,422.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	4/27/2017	(°) 6.98
			Dip Angle (°) 59.94
			Field Strength (nT) 47,869

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°) 183.58

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.51	3.01	312.62	4,300.37	5.33	-5.80	1.00	1.00	0.00	312.62	
11,846.39	3.01	312.62	11,835.88	273.20	-296.90	0.00	0.00	0.00	0.00	
12,613.42	90.00	179.76	12,330.00	-204.04	-313.91	12.00	11.34	-17.32	-132.82	
17,128.42	90.00	179.76	12,330.00	-4,719.00	-295.00	0.00	0.00	0.00	0.00	PBHL (Gem 36 State)



EOG Resources, Inc.

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

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3447.00usft
 MD Reference: KB = 25' @ 3447.00usft
 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	312.62	4,100.00	0.59	-0.64	-0.55	1.00	1.00	0.00
4,200.00	2.00	312.62	4,199.96	2.36	-2.57	-2.20	1.00	1.00	0.00
4,300.51	3.01	312.62	4,300.37	5.33	-5.80	-4.96	1.00	1.00	0.00
4,400.00	3.01	312.62	4,399.73	8.87	-9.64	-8.25	0.00	0.00	0.00
4,500.00	3.01	312.62	4,499.59	12.42	-13.49	-11.55	0.00	0.00	0.00
4,600.00	3.01	312.62	4,599.45	15.97	-17.35	-14.85	0.00	0.00	0.00
4,700.00	3.01	312.62	4,699.31	19.52	-21.21	-18.15	0.00	0.00	0.00
4,800.00	3.01	312.62	4,799.18	23.07	-25.07	-21.46	0.00	0.00	0.00
4,900.00	3.01	312.62	4,899.04	26.62	-28.92	-24.76	0.00	0.00	0.00
5,000.00	3.01	312.62	4,998.90	30.17	-32.78	-28.06	0.00	0.00	0.00
5,100.00	3.01	312.62	5,098.76	33.72	-36.64	-31.36	0.00	0.00	0.00
5,200.00	3.01	312.62	5,198.63	37.26	-40.50	-34.67	0.00	0.00	0.00
5,300.00	3.01	312.62	5,298.49	40.81	-44.36	-37.97	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Site: Gem 36 State Com
 Well: #704H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
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 MD Reference: KB = 25' @ 3447.00usft
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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)
5,400.00	3.01	312.62	5,398.35	44.36	-48.21	-41.27	0.00	0.00	0.00
5,500.00	3.01	312.62	5,498.21	47.91	-52.07	-44.57	0.00	0.00	0.00
5,600.00	3.01	312.62	5,598.08	51.46	-55.93	-47.87	0.00	0.00	0.00
5,700.00	3.01	312.62	5,697.94	55.01	-59.79	-51.18	0.00	0.00	0.00
5,800.00	3.01	312.62	5,797.80	58.56	-63.64	-54.48	0.00	0.00	0.00
5,900.00	3.01	312.62	5,897.66	62.11	-67.50	-57.78	0.00	0.00	0.00
6,000.00	3.01	312.62	5,997.53	65.66	-71.36	-61.08	0.00	0.00	0.00
6,100.00	3.01	312.62	6,097.39	69.21	-75.22	-64.39	0.00	0.00	0.00
6,200.00	3.01	312.62	6,197.25	72.76	-79.07	-67.69	0.00	0.00	0.00
6,300.00	3.01	312.62	6,297.11	76.31	-82.93	-70.99	0.00	0.00	0.00
6,400.00	3.01	312.62	6,396.98	79.86	-86.79	-74.29	0.00	0.00	0.00
6,500.00	3.01	312.62	6,496.84	83.41	-90.65	-77.59	0.00	0.00	0.00
6,600.00	3.01	312.62	6,596.70	86.96	-94.51	-80.90	0.00	0.00	0.00
6,700.00	3.01	312.62	6,696.56	90.51	-98.36	-84.20	0.00	0.00	0.00
6,800.00	3.01	312.62	6,796.43	94.06	-102.22	-87.50	0.00	0.00	0.00
6,900.00	3.01	312.62	6,896.29	97.61	-106.08	-90.80	0.00	0.00	0.00
7,000.00	3.01	312.62	6,996.15	101.16	-109.94	-94.10	0.00	0.00	0.00
7,100.00	3.01	312.62	7,096.01	104.71	-113.79	-97.41	0.00	0.00	0.00
7,200.00	3.01	312.62	7,195.88	108.26	-117.65	-100.71	0.00	0.00	0.00
7,300.00	3.01	312.62	7,295.74	111.81	-121.51	-104.01	0.00	0.00	0.00
7,400.00	3.01	312.62	7,395.60	115.36	-125.37	-107.31	0.00	0.00	0.00
7,500.00	3.01	312.62	7,495.46	118.91	-129.23	-110.62	0.00	0.00	0.00
7,600.00	3.01	312.62	7,595.33	122.46	-133.08	-113.92	0.00	0.00	0.00
7,700.00	3.01	312.62	7,695.19	126.01	-136.94	-117.22	0.00	0.00	0.00
7,800.00	3.01	312.62	7,795.05	129.56	-140.80	-120.52	0.00	0.00	0.00
7,900.00	3.01	312.62	7,894.91	133.11	-144.66	-123.82	0.00	0.00	0.00
8,000.00	3.01	312.62	7,994.78	136.66	-148.51	-127.13	0.00	0.00	0.00
8,100.00	3.01	312.62	8,094.64	140.21	-152.37	-130.43	0.00	0.00	0.00
8,200.00	3.01	312.62	8,194.50	143.76	-156.23	-133.73	0.00	0.00	0.00
8,300.00	3.01	312.62	8,294.36	147.31	-160.09	-137.03	0.00	0.00	0.00
8,400.00	3.01	312.62	8,394.23	150.86	-163.94	-140.34	0.00	0.00	0.00
8,500.00	3.01	312.62	8,494.09	154.41	-167.80	-143.64	0.00	0.00	0.00
8,600.00	3.01	312.62	8,593.95	157.96	-171.66	-146.94	0.00	0.00	0.00
8,700.00	3.01	312.62	8,693.81	161.51	-175.52	-150.24	0.00	0.00	0.00
8,800.00	3.01	312.62	8,793.68	165.06	-179.38	-153.54	0.00	0.00	0.00
8,900.00	3.01	312.62	8,893.54	168.61	-183.23	-156.85	0.00	0.00	0.00
9,000.00	3.01	312.62	8,993.40	172.16	-187.09	-160.15	0.00	0.00	0.00
9,100.00	3.01	312.62	9,093.26	175.71	-190.95	-163.45	0.00	0.00	0.00
9,200.00	3.01	312.62	9,193.13	179.26	-194.81	-166.75	0.00	0.00	0.00
9,300.00	3.01	312.62	9,292.99	182.81	-198.66	-170.05	0.00	0.00	0.00
9,400.00	3.01	312.62	9,392.85	186.36	-202.52	-173.36	0.00	0.00	0.00
9,500.00	3.01	312.62	9,492.71	189.91	-206.38	-176.66	0.00	0.00	0.00
9,600.00	3.01	312.62	9,592.58	193.46	-210.24	-179.96	0.00	0.00	0.00
9,700.00	3.01	312.62	9,692.44	197.00	-214.10	-183.26	0.00	0.00	0.00
9,800.00	3.01	312.62	9,792.30	200.55	-217.95	-186.57	0.00	0.00	0.00
9,900.00	3.01	312.62	9,892.16	204.10	-221.81	-189.87	0.00	0.00	0.00
10,000.00	3.01	312.62	9,992.03	207.65	-225.67	-193.17	0.00	0.00	0.00
10,100.00	3.01	312.62	10,091.89	211.20	-229.53	-196.47	0.00	0.00	0.00
10,200.00	3.01	312.62	10,191.75	214.75	-233.38	-199.77	0.00	0.00	0.00
10,300.00	3.01	312.62	10,291.61	218.30	-237.24	-203.08	0.00	0.00	0.00
10,400.00	3.01	312.62	10,391.48	221.85	-241.10	-206.38	0.00	0.00	0.00
10,500.00	3.01	312.62	10,491.34	225.40	-244.96	-209.68	0.00	0.00	0.00
10,600.00	3.01	312.62	10,591.20	228.95	-248.81	-212.98	0.00	0.00	0.00
10,700.00	3.01	312.62	10,691.06	232.50	-252.67	-216.29	0.00	0.00	0.00



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Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #704H
KB = 25' @ 3447.00usft
KB = 25' @ 3447.00usft
Grid
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)
10,800.00	3.01	312.62	10,790.93	236.05	-256.53	-219.59	0.00	0.00	0.00
10,900.00	3.01	312.62	10,890.79	239.60	-260.39	-222.89	0.00	0.00	0.00
11,000.00	3.01	312.62	10,990.65	243.15	-264.25	-226.19	0.00	0.00	0.00
11,100.00	3.01	312.62	11,090.51	246.70	-268.10	-229.49	0.00	0.00	0.00
11,200.00	3.01	312.62	11,190.38	250.25	-271.96	-232.80	0.00	0.00	0.00
11,300.00	3.01	312.62	11,290.24	253.80	-275.82	-236.10	0.00	0.00	0.00
11,400.00	3.01	312.62	11,390.10	257.35	-279.68	-239.40	0.00	0.00	0.00
11,500.00	3.01	312.62	11,489.96	260.90	-283.53	-242.70	0.00	0.00	0.00
11,600.00	3.01	312.62	11,589.83	264.45	-287.39	-246.00	0.00	0.00	0.00
11,700.00	3.01	312.62	11,689.69	268.00	-291.25	-249.31	0.00	0.00	0.00
11,800.00	3.01	312.62	11,789.55	271.55	-295.11	-252.61	0.00	0.00	0.00
11,846.39	3.01	312.62	11,835.88	273.20	-296.90	-254.14	0.00	0.00	0.00
11,850.00	2.73	305.93	11,839.48	273.31	-297.04	-254.25	12.00	-7.64	-185.28
11,875.00	2.61	237.51	11,864.46	273.36	-298.00	-254.23	12.00	-0.50	-273.67
11,900.00	4.91	206.37	11,889.41	272.09	-298.95	-252.91	12.00	9.22	-124.58
11,925.00	7.71	196.27	11,914.25	269.52	-299.90	-250.29	12.00	11.19	-40.37
11,950.00	10.62	191.60	11,938.93	265.66	-300.83	-246.37	12.00	11.64	-18.68
11,975.00	13.57	188.94	11,963.38	260.50	-301.75	-241.17	12.00	11.79	-10.67
12,000.00	16.53	187.21	11,987.52	254.07	-302.65	-234.70	12.00	11.87	-6.91
12,025.00	19.51	186.00	12,011.29	246.39	-303.53	-226.97	12.00	11.91	-4.85
12,050.00	22.49	185.09	12,034.62	237.47	-304.40	-218.02	12.00	11.93	-3.61
12,075.00	25.48	184.39	12,057.46	227.35	-305.23	-207.86	12.00	11.95	-2.80
12,100.00	28.47	183.83	12,079.74	216.04	-306.04	-196.52	12.00	11.96	-2.25
12,125.00	31.46	183.37	12,101.40	203.58	-306.82	-184.04	12.00	11.96	-1.85
12,150.00	34.45	182.98	12,122.37	190.00	-307.57	-170.44	12.00	11.97	-1.56
12,175.00	37.45	182.64	12,142.61	175.34	-308.29	-155.77	12.00	11.97	-1.34
12,200.00	40.44	182.35	12,162.05	159.65	-308.97	-140.06	12.00	11.98	-1.17
12,225.00	43.43	182.09	12,180.64	142.95	-309.62	-123.36	12.00	11.98	-1.03
12,250.00	46.43	181.86	12,198.34	125.31	-310.23	-105.71	12.00	11.98	-0.93
12,275.00	49.43	181.65	12,215.09	106.76	-310.79	-87.16	12.00	11.98	-0.84
12,300.00	52.42	181.46	12,230.85	87.36	-311.32	-67.77	12.00	11.99	-0.77
12,325.00	55.42	181.28	12,245.57	67.17	-311.80	-47.58	12.00	11.99	-0.71
12,350.00	58.42	181.12	12,259.21	46.23	-312.24	-26.66	12.00	11.99	-0.66
12,375.00	61.41	180.96	12,271.74	24.60	-312.63	-5.05	12.00	11.99	-0.62
12,400.00	64.41	180.82	12,283.13	2.35	-312.97	17.18	12.00	11.99	-0.58
12,425.00	67.41	180.68	12,293.33	-20.47	-313.27	39.97	12.00	11.99	-0.55
12,450.00	70.40	180.54	12,302.33	-43.79	-313.52	63.27	12.00	11.99	-0.53
12,475.00	73.40	180.42	12,310.09	-67.55	-313.72	86.99	12.00	11.99	-0.51
12,500.00	76.40	180.29	12,316.60	-91.68	-313.87	111.09	12.00	11.99	-0.50
12,525.00	79.40	180.17	12,321.84	-116.13	-313.97	135.49	12.00	11.99	-0.48
12,550.00	82.40	180.05	12,325.80	-140.81	-314.02	160.12	12.00	11.99	-0.47
12,575.00	85.39	179.94	12,328.46	-165.66	-314.01	184.93	12.00	11.99	-0.47
12,600.00	88.39	179.82	12,329.81	-190.62	-313.96	209.84	12.00	11.99	-0.46
12,613.42	90.00	179.76	12,330.00	-204.04	-313.91	223.23	12.00	11.99	-0.46
12,700.00	90.00	179.76	12,330.00	-290.62	-313.55	309.62	0.00	0.00	0.00
12,800.00	90.00	179.76	12,330.00	-390.62	-313.13	409.40	0.00	0.00	0.00
12,900.00	90.00	179.76	12,330.00	-490.62	-312.71	509.17	0.00	0.00	0.00
13,000.00	90.00	179.76	12,330.00	-590.62	-312.29	608.95	0.00	0.00	0.00
13,100.00	90.00	179.76	12,330.00	-690.62	-311.87	708.73	0.00	0.00	0.00
13,200.00	90.00	179.76	12,330.00	-790.62	-311.46	808.51	0.00	0.00	0.00
13,300.00	90.00	179.76	12,330.00	-890.62	-311.04	908.29	0.00	0.00	0.00
13,400.00	90.00	179.76	12,330.00	-990.61	-310.62	1,008.06	0.00	0.00	0.00
13,500.00	90.00	179.76	12,330.00	-1,090.61	-310.20	1,107.84	0.00	0.00	0.00
13,600.00	90.00	179.76	12,330.00	-1,190.61	-309.78	1,207.62	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 83 NME)
Site: Gem 36 State Cor
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3447.00usft
MD Reference: KB = 25' @ 3447.00usft
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)
13,700.00	90.00	179.76	12,330.00	-1,290.61	-309.36	1,307.40	0.00	0.00	0.00
13,800.00	90.00	179.76	12,330.00	-1,390.61	-308.94	1,407.18	0.00	0.00	0.00
13,900.00	90.00	179.76	12,330.00	-1,490.61	-308.52	1,506.95	0.00	0.00	0.00
14,000.00	90.00	179.76	12,330.00	-1,590.61	-308.10	1,606.73	0.00	0.00	0.00
14,100.00	90.00	179.76	12,330.00	-1,690.61	-307.69	1,706.51	0.00	0.00	0.00
14,200.00	90.00	179.76	12,330.00	-1,790.61	-307.27	1,806.29	0.00	0.00	0.00
14,300.00	90.00	179.76	12,330.00	-1,890.61	-306.85	1,906.07	0.00	0.00	0.00
14,400.00	90.00	179.76	12,330.00	-1,990.61	-306.43	2,005.85	0.00	0.00	0.00
14,500.00	90.00	179.76	12,330.00	-2,090.60	-306.01	2,105.62	0.00	0.00	0.00
14,600.00	90.00	179.76	12,330.00	-2,190.60	-305.59	2,205.40	0.00	0.00	0.00
14,700.00	90.00	179.76	12,330.00	-2,290.60	-305.17	2,305.18	0.00	0.00	0.00
14,800.00	90.00	179.76	12,330.00	-2,390.60	-304.75	2,404.96	0.00	0.00	0.00
14,900.00	90.00	179.76	12,330.00	-2,490.60	-304.33	2,504.74	0.00	0.00	0.00
15,000.00	90.00	179.76	12,330.00	-2,590.60	-303.92	2,604.51	0.00	0.00	0.00
15,100.00	90.00	179.76	12,330.00	-2,690.60	-303.50	2,704.29	0.00	0.00	0.00
15,200.00	90.00	179.76	12,330.00	-2,790.60	-303.08	2,804.07	0.00	0.00	0.00
15,300.00	90.00	179.76	12,330.00	-2,890.60	-302.66	2,903.85	0.00	0.00	0.00
15,400.00	90.00	179.76	12,330.00	-2,990.60	-302.24	3,003.63	0.00	0.00	0.00
15,500.00	90.00	179.76	12,330.00	-3,090.60	-301.82	3,103.41	0.00	0.00	0.00
15,600.00	90.00	179.76	12,330.00	-3,190.59	-301.40	3,203.18	0.00	0.00	0.00
15,700.00	90.00	179.76	12,330.00	-3,290.59	-300.98	3,302.96	0.00	0.00	0.00
15,800.00	90.00	179.76	12,330.00	-3,390.59	-300.56	3,402.74	0.00	0.00	0.00
15,900.00	90.00	179.76	12,330.00	-3,490.59	-300.15	3,502.52	0.00	0.00	0.00
16,000.00	90.00	179.76	12,330.00	-3,590.59	-299.73	3,602.30	0.00	0.00	0.00
16,100.00	90.00	179.76	12,330.00	-3,690.59	-299.31	3,702.07	0.00	0.00	0.00
16,200.00	90.00	179.76	12,330.00	-3,790.59	-298.89	3,801.85	0.00	0.00	0.00
16,300.00	90.00	179.76	12,330.00	-3,890.59	-298.47	3,901.63	0.00	0.00	0.00
16,400.00	90.00	179.76	12,330.00	-3,990.59	-298.05	4,001.41	0.00	0.00	0.00
16,500.00	90.00	179.76	12,330.00	-4,090.59	-297.63	4,101.19	0.00	0.00	0.00
16,600.00	90.00	179.76	12,330.00	-4,190.59	-297.21	4,200.97	0.00	0.00	0.00
16,700.00	90.00	179.76	12,330.00	-4,290.59	-296.79	4,300.74	0.00	0.00	0.00
16,800.00	90.00	179.76	12,330.00	-4,390.58	-296.38	4,400.52	0.00	0.00	0.00
16,900.00	90.00	179.76	12,330.00	-4,490.58	-295.96	4,500.30	0.00	0.00	0.00
17,000.00	90.00	179.76	12,330.00	-4,590.58	-295.54	4,600.08	0.00	0.00	0.00
17,100.00	90.00	179.76	12,330.00	-4,690.58	-295.12	4,699.86	0.00	0.00	0.00
17,128.42	90.00	179.76	12,330.00	-4,719.00	-295.00	4,728.21	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Gem 36 State Cor - plan misses target center by 40.68usft at 12424.05usft MD (12292.97 TVD, -19.60 N, -313.26 E) - Point	0.00	0.00	12,330.00	-3.00	-316.00	398,422.00	759,943.00	32.09337463	-103.62741865
PBHL (Gem 36 State Cc - plan hits target center - Point	0.00	0.00	12,330.00	-4,719.00	-295.00	393,706.00	759,964.00	32.08041112	-103.62745050