



Lea County, NM (NAD 83 NME)

Gem 36 State Com #705H

Plan #0.1

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

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

WELL DETAILS: #705H

KB = 25 @ 3384.0usft 3389.0
Northing 0999.00 Easting 759210.00 Latitude 32° 4' 51.310 N Longitude 103° 37' 47.572 W

SECTION DETAILS

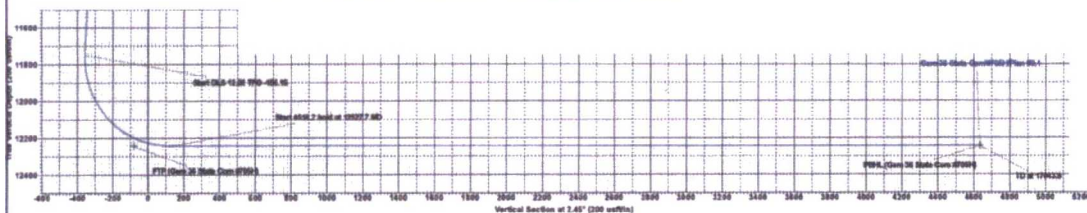
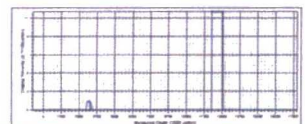
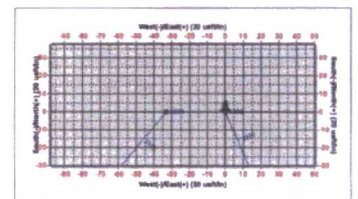
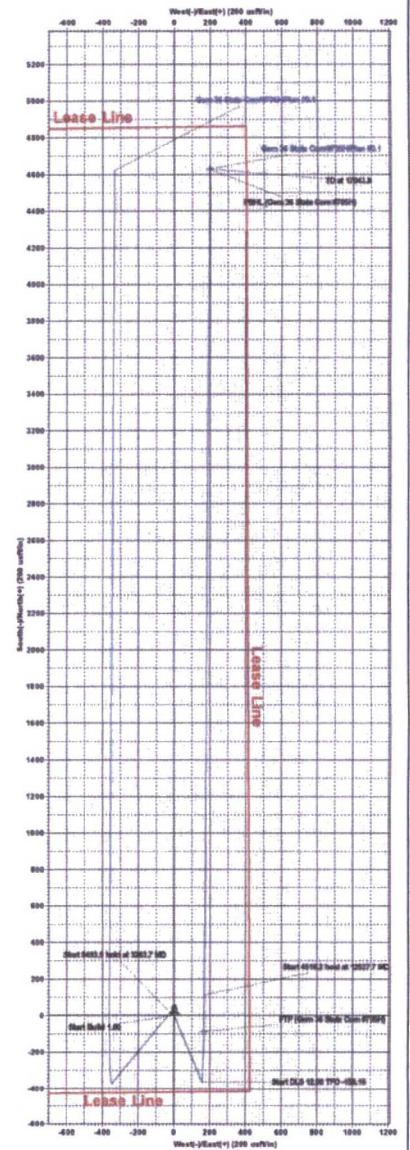
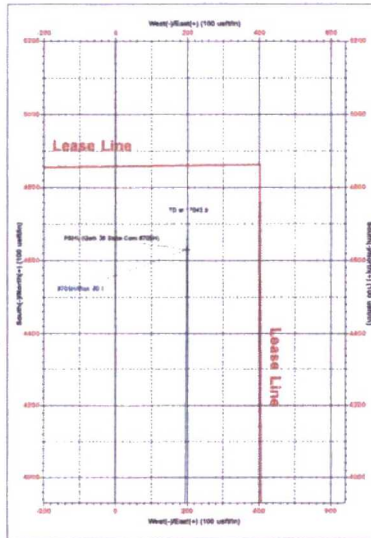
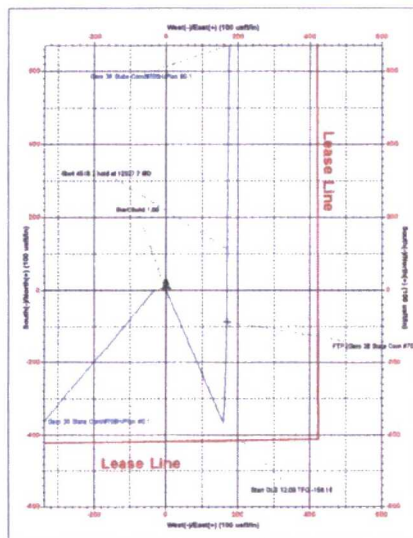
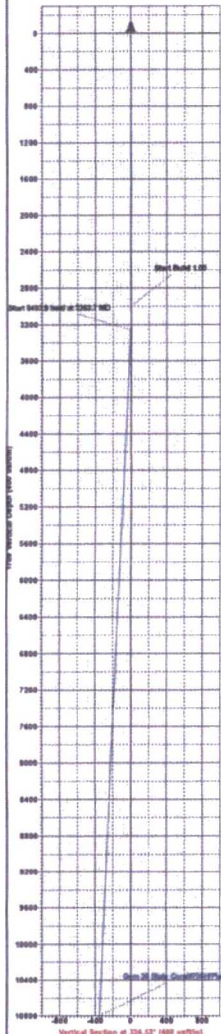
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeal	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.0	0.0		
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0		
3	3383.7	2.64	166.53	3383.8	-5.8	2.4	1.00	194.53	-5.8		
4	11767.6	2.64	166.53	11748.6	-384.0	168.0	0.00	0.00	-387.0		
5	12827.7	90.00	0.35	12246.0	112.9	179.2	12.00	-198.16	120.1		
6	17945.9	90.00	0.35	12246.0	4629.0	198.0	0.00	0.00	4633.2		PBH-L (Gem 36 State Com #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBH-L (Gem 36 State Com #705H)	12246.0	4629.0	198.0	389515.00	758408.00
F7P (Gem 36 State Com #705H)	12246.0	-47.9	188.0	391799.00	766379.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#705H

OH

Plan: Plan #0.1

Standard Planning Report

06 February, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #705H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3394.0usft
MD Reference: KB = 25 @ 3394.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Gem 36 State Com

Site Position: Northing: 393,686.00 usft Latitude: 32° 4' 49.331 N
From: Map Easting: 759,213.00 usft Longitude: 103° 37' 47.552 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.37 °

Well #705H

Well Position +N/-S 200.0 usft Northing: 393,886.00 usft Latitude: 32° 4' 51.310 N
 +E/-W -3.0 usft Easting: 759,210.00 usft Longitude: 103° 37' 47.572 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,369.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/5/2018	6.90	59.91	47,781.76768317

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	2.45

Plan Survey Tool Program Date 2/6/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,043.9 Plan #0.1 (OH)	MWD	
			MWD - Standard	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,263.7	2.64	156.53	3,263.6	-5.6	2.4	1.00	1.00	0.00	156.53	
11,757.6	2.64	156.53	11,748.5	-364.0	158.0	0.00	0.00	0.00	0.00	
12,527.7	90.00	0.35	12,246.0	112.9	170.2	12.00	11.34	-20.28	-156.16	
17,043.9	90.00	0.35	12,246.0	4,629.0	198.0	0.00	0.00	0.00	0.00	PBHL (Gem 36 State)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #705H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3394.0usft
MD Reference: KB = 25 @ 3394.0usft
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	1.00	156.53	3,100.0	-0.8	0.3	-0.8	1.00	1.00	0.00
3,200.0	2.00	156.53	3,200.0	-3.2	1.4	-3.1	1.00	1.00	0.00
3,263.7	2.64	156.53	3,263.6	-5.6	2.4	-5.5	1.00	1.00	0.00
3,300.0	2.64	156.53	3,299.9	-7.1	3.1	-7.0	0.00	0.00	0.00
3,400.0	2.64	156.53	3,399.8	-11.3	4.9	-11.1	0.00	0.00	0.00
3,500.0	2.64	156.53	3,499.7	-15.5	6.7	-15.2	0.00	0.00	0.00
3,600.0	2.64	156.53	3,599.6	-19.8	8.6	-19.4	0.00	0.00	0.00
3,700.0	2.64	156.53	3,699.4	-24.0	10.4	-23.5	0.00	0.00	0.00
3,800.0	2.64	156.53	3,799.3	-28.2	12.2	-27.7	0.00	0.00	0.00
3,900.0	2.64	156.53	3,899.2	-32.4	14.1	-31.8	0.00	0.00	0.00
4,000.0	2.64	156.53	3,999.1	-36.6	15.9	-35.9	0.00	0.00	0.00
4,100.0	2.64	156.53	4,099.0	-40.9	17.7	-40.1	0.00	0.00	0.00
4,200.0	2.64	156.53	4,198.9	-45.1	19.6	-44.2	0.00	0.00	0.00
4,300.0	2.64	156.53	4,298.8	-49.3	21.4	-48.3	0.00	0.00	0.00
4,400.0	2.64	156.53	4,398.7	-53.5	23.2	-52.5	0.00	0.00	0.00
4,500.0	2.64	156.53	4,498.6	-57.7	25.1	-56.6	0.00	0.00	0.00
4,600.0	2.64	156.53	4,598.5	-62.0	26.9	-60.8	0.00	0.00	0.00
4,700.0	2.64	156.53	4,698.4	-66.2	28.7	-64.9	0.00	0.00	0.00
4,800.0	2.64	156.53	4,798.3	-70.4	30.6	-69.0	0.00	0.00	0.00
4,900.0	2.64	156.53	4,898.2	-74.6	32.4	-73.2	0.00	0.00	0.00
5,000.0	2.64	156.53	4,998.1	-78.8	34.2	-77.3	0.00	0.00	0.00
5,100.0	2.64	156.53	5,098.0	-83.1	36.1	-81.4	0.00	0.00	0.00
5,200.0	2.64	156.53	5,197.9	-87.3	37.9	-85.6	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Gem 36 State Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25 @ 3394.0usft
 MD Reference: KB = 25 @ 3394.0usft
 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	2.64	156.53	5,297.8	-91.5	39.7	-89.7	0.00	0.00	0.00
5,400.0	2.64	156.53	5,397.6	-95.7	41.6	-93.9	0.00	0.00	0.00
5,500.0	2.64	156.53	5,497.5	-99.9	43.4	-98.0	0.00	0.00	0.00
5,600.0	2.64	156.53	5,597.4	-104.2	45.2	-102.1	0.00	0.00	0.00
5,700.0	2.64	156.53	5,697.3	-108.4	47.1	-106.3	0.00	0.00	0.00
5,800.0	2.64	156.53	5,797.2	-112.6	48.9	-110.4	0.00	0.00	0.00
5,900.0	2.64	156.53	5,897.1	-116.8	50.7	-114.6	0.00	0.00	0.00
6,000.0	2.64	156.53	5,997.0	-121.1	52.6	-118.7	0.00	0.00	0.00
6,100.0	2.64	156.53	6,096.9	-125.3	54.4	-122.8	0.00	0.00	0.00
6,200.0	2.64	156.53	6,196.8	-129.5	56.2	-127.0	0.00	0.00	0.00
6,300.0	2.64	156.53	6,296.7	-133.7	58.0	-131.1	0.00	0.00	0.00
6,400.0	2.64	156.53	6,396.6	-137.9	59.9	-135.2	0.00	0.00	0.00
6,500.0	2.64	156.53	6,496.5	-142.2	61.7	-139.4	0.00	0.00	0.00
6,600.0	2.64	156.53	6,596.4	-146.4	63.5	-143.5	0.00	0.00	0.00
6,700.0	2.64	156.53	6,696.3	-150.6	65.4	-147.7	0.00	0.00	0.00
6,800.0	2.64	156.53	6,796.2	-154.8	67.2	-151.8	0.00	0.00	0.00
6,900.0	2.64	156.53	6,896.1	-159.0	69.0	-155.9	0.00	0.00	0.00
7,000.0	2.64	156.53	6,995.9	-163.3	70.9	-160.1	0.00	0.00	0.00
7,100.0	2.64	156.53	7,095.8	-167.5	72.7	-164.2	0.00	0.00	0.00
7,200.0	2.64	156.53	7,195.7	-171.7	74.5	-168.4	0.00	0.00	0.00
7,300.0	2.64	156.53	7,295.6	-175.9	76.4	-172.5	0.00	0.00	0.00
7,400.0	2.64	156.53	7,395.5	-180.1	78.2	-176.6	0.00	0.00	0.00
7,500.0	2.64	156.53	7,495.4	-184.4	80.0	-180.8	0.00	0.00	0.00
7,600.0	2.64	156.53	7,595.3	-188.6	81.9	-184.9	0.00	0.00	0.00
7,700.0	2.64	156.53	7,695.2	-192.8	83.7	-189.0	0.00	0.00	0.00
7,800.0	2.64	156.53	7,795.1	-197.0	85.5	-193.2	0.00	0.00	0.00
7,900.0	2.64	156.53	7,895.0	-201.2	87.4	-197.3	0.00	0.00	0.00
8,000.0	2.64	156.53	7,994.9	-205.5	89.2	-201.5	0.00	0.00	0.00
8,100.0	2.64	156.53	8,094.8	-209.7	91.0	-205.6	0.00	0.00	0.00
8,200.0	2.64	156.53	8,194.7	-213.9	92.9	-209.7	0.00	0.00	0.00
8,300.0	2.64	156.53	8,294.6	-218.1	94.7	-213.9	0.00	0.00	0.00
8,400.0	2.64	156.53	8,394.5	-222.3	96.5	-218.0	0.00	0.00	0.00
8,500.0	2.64	156.53	8,494.4	-226.6	98.4	-222.2	0.00	0.00	0.00
8,600.0	2.64	156.53	8,594.3	-230.8	100.2	-226.3	0.00	0.00	0.00
8,700.0	2.64	156.53	8,694.1	-235.0	102.0	-230.4	0.00	0.00	0.00
8,800.0	2.64	156.53	8,794.0	-239.2	103.9	-234.6	0.00	0.00	0.00
8,900.0	2.64	156.53	8,893.9	-243.4	105.7	-238.7	0.00	0.00	0.00
9,000.0	2.64	156.53	8,993.8	-247.7	107.5	-242.8	0.00	0.00	0.00
9,100.0	2.64	156.53	9,093.7	-251.9	109.3	-247.0	0.00	0.00	0.00
9,200.0	2.64	156.53	9,193.6	-256.1	111.2	-251.1	0.00	0.00	0.00
9,300.0	2.64	156.53	9,293.5	-260.3	113.0	-255.3	0.00	0.00	0.00
9,400.0	2.64	156.53	9,393.4	-264.5	114.8	-259.4	0.00	0.00	0.00
9,500.0	2.64	156.53	9,493.3	-268.8	116.7	-263.5	0.00	0.00	0.00
9,600.0	2.64	156.53	9,593.2	-273.0	118.5	-267.7	0.00	0.00	0.00
9,700.0	2.64	156.53	9,693.1	-277.2	120.3	-271.8	0.00	0.00	0.00
9,800.0	2.64	156.53	9,793.0	-281.4	122.2	-276.0	0.00	0.00	0.00
9,900.0	2.64	156.53	9,892.9	-285.6	124.0	-280.1	0.00	0.00	0.00
10,000.0	2.64	156.53	9,992.8	-289.9	125.8	-284.2	0.00	0.00	0.00
10,100.0	2.64	156.53	10,092.7	-294.1	127.7	-288.4	0.00	0.00	0.00
10,200.0	2.64	156.53	10,192.6	-298.3	129.5	-292.5	0.00	0.00	0.00
10,300.0	2.64	156.53	10,292.5	-302.5	131.3	-296.6	0.00	0.00	0.00
10,400.0	2.64	156.53	10,392.3	-306.8	133.2	-300.8	0.00	0.00	0.00
10,500.0	2.64	156.53	10,492.2	-311.0	135.0	-304.9	0.00	0.00	0.00
10,600.0	2.64	156.53	10,592.1	-315.2	136.8	-309.1	0.00	0.00	0.00



Planning Report

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 Site: Gem 36 State Com
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 Wellbore: OH
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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	2.64	156.53	10,692.0	-319.4	138.7	-313.2	0.00	0.00	0.00
10,800.0	2.64	156.53	10,791.9	-323.6	140.5	-317.3	0.00	0.00	0.00
10,900.0	2.64	156.53	10,891.8	-327.9	142.3	-321.5	0.00	0.00	0.00
11,000.0	2.64	156.53	10,991.7	-332.1	144.2	-325.6	0.00	0.00	0.00
11,100.0	2.64	156.53	11,091.6	-336.3	146.0	-329.7	0.00	0.00	0.00
11,200.0	2.64	156.53	11,191.5	-340.5	147.8	-333.9	0.00	0.00	0.00
11,300.0	2.64	156.53	11,291.4	-344.7	149.7	-338.0	0.00	0.00	0.00
11,400.0	2.64	156.53	11,391.3	-349.0	151.5	-342.2	0.00	0.00	0.00
11,500.0	2.64	156.53	11,491.2	-353.2	153.3	-346.3	0.00	0.00	0.00
11,600.0	2.64	156.53	11,591.1	-357.4	155.2	-350.4	0.00	0.00	0.00
11,700.0	2.64	156.53	11,691.0	-361.6	157.0	-354.6	0.00	0.00	0.00
11,757.6	2.64	156.53	11,748.5	-364.0	158.0	-357.0	0.00	0.00	0.00
11,775.0	1.11	107.36	11,765.9	-364.5	158.4	-357.4	12.00	-8.76	-282.82
11,800.0	2.88	22.06	11,790.9	-364.0	158.8	-356.8	12.00	7.06	-341.17
11,825.0	5.77	10.95	11,815.8	-362.1	159.3	-355.0	12.00	11.58	-44.44
11,850.0	8.74	7.30	11,840.6	-359.0	159.8	-351.9	12.00	11.86	-14.61
11,875.0	11.72	5.50	11,865.2	-354.6	160.3	-347.4	12.00	11.93	-7.23
11,900.0	14.71	4.41	11,889.5	-348.9	160.8	-341.7	12.00	11.96	-4.32
11,925.0	17.71	3.69	11,913.6	-342.0	161.2	-334.8	12.00	11.97	-2.89
11,950.0	20.70	3.17	11,937.2	-333.7	161.7	-326.5	12.00	11.98	-2.08
11,975.0	23.70	2.78	11,960.3	-324.3	162.2	-317.1	12.00	11.99	-1.57
12,000.0	26.69	2.47	11,982.9	-313.7	162.7	-306.4	12.00	11.99	-1.24
12,025.0	29.69	2.22	12,005.0	-301.9	163.2	-294.6	12.00	11.99	-1.00
12,050.0	32.69	2.01	12,026.3	-288.9	163.7	-281.7	12.00	11.99	-0.83
12,075.0	35.69	1.84	12,047.0	-274.9	164.1	-267.6	12.00	11.99	-0.71
12,100.0	38.69	1.68	12,066.9	-259.8	164.6	-252.5	12.00	11.99	-0.61
12,125.0	41.69	1.55	12,086.0	-243.7	165.1	-236.4	12.00	12.00	-0.54
12,150.0	44.68	1.43	12,104.3	-226.6	165.5	-219.3	12.00	12.00	-0.48
12,175.0	47.68	1.32	12,121.6	-208.6	165.9	-201.3	12.00	12.00	-0.43
12,200.0	50.68	1.23	12,137.9	-189.6	166.4	-182.4	12.00	12.00	-0.39
12,225.0	53.68	1.14	12,153.2	-169.9	166.8	-162.6	12.00	12.00	-0.36
12,250.0	56.68	1.05	12,167.5	-149.4	167.2	-142.1	12.00	12.00	-0.33
12,275.0	59.68	0.98	12,180.7	-128.1	167.5	-120.9	12.00	12.00	-0.31
12,300.0	62.68	0.90	12,192.7	-106.2	167.9	-99.0	12.00	12.00	-0.29
12,325.0	65.68	0.83	12,203.6	-83.7	168.2	-76.5	12.00	12.00	-0.28
12,338.5	67.29	0.80	12,209.0	-71.4	168.4	-64.2	12.00	12.00	-0.27
FTP (Gem 36 State Com #705H)									
12,350.0	68.68	0.77	12,213.3	-60.7	168.6	-53.4	12.00	12.00	-0.26
12,375.0	71.68	0.71	12,221.8	-37.2	168.9	-29.9	12.00	12.00	-0.25
12,400.0	74.68	0.64	12,229.0	-13.3	169.1	-6.0	12.00	12.00	-0.24
12,425.0	77.68	0.59	12,235.0	11.0	169.4	18.2	12.00	12.00	-0.24
12,450.0	80.68	0.53	12,239.7	35.6	169.6	42.8	12.00	12.00	-0.23
12,475.0	83.68	0.47	12,243.1	60.3	169.9	67.5	12.00	12.00	-0.23
12,500.0	86.67	0.41	12,245.2	85.2	170.0	92.4	12.00	12.00	-0.22
12,525.0	89.67	0.36	12,246.0	110.2	170.2	117.4	12.00	12.00	-0.22
12,527.7	90.00	0.35	12,246.0	112.9	170.2	120.1	12.00	12.00	-0.22
12,600.0	90.00	0.35	12,246.0	185.2	170.7	192.3	0.00	0.00	0.00
12,700.0	90.00	0.35	12,246.0	285.2	171.3	292.3	0.00	0.00	0.00
12,800.0	90.00	0.35	12,246.0	385.2	171.9	392.2	0.00	0.00	0.00
12,900.0	90.00	0.35	12,246.0	485.2	172.5	492.1	0.00	0.00	0.00
13,000.0	90.00	0.35	12,246.0	585.2	173.1	592.1	0.00	0.00	0.00
13,100.0	90.00	0.35	12,246.0	685.2	173.7	692.0	0.00	0.00	0.00
13,200.0	90.00	0.35	12,246.0	785.2	174.4	791.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Cor
Well: #705H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3394.0usft
MD Reference: KB = 25 @ 3394.0usft
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)
13,300.0	90.00	0.35	12,246.0	885.2	175.0	891.9	0.00	0.00	0.00
13,400.0	90.00	0.35	12,246.0	985.2	175.6	991.8	0.00	0.00	0.00
13,500.0	90.00	0.35	12,246.0	1,085.2	176.2	1,091.7	0.00	0.00	0.00
13,600.0	90.00	0.35	12,246.0	1,185.2	176.8	1,191.7	0.00	0.00	0.00
13,700.0	90.00	0.35	12,246.0	1,285.2	177.4	1,291.6	0.00	0.00	0.00
13,800.0	90.00	0.35	12,246.0	1,385.2	178.1	1,391.5	0.00	0.00	0.00
13,900.0	90.00	0.35	12,246.0	1,485.2	178.7	1,491.5	0.00	0.00	0.00
14,000.0	90.00	0.35	12,246.0	1,585.2	179.3	1,591.4	0.00	0.00	0.00
14,100.0	90.00	0.35	12,246.0	1,685.2	179.9	1,691.3	0.00	0.00	0.00
14,200.0	90.00	0.35	12,246.0	1,785.2	180.5	1,791.3	0.00	0.00	0.00
14,300.0	90.00	0.35	12,246.0	1,885.2	181.1	1,891.2	0.00	0.00	0.00
14,400.0	90.00	0.35	12,246.0	1,985.2	181.7	1,991.1	0.00	0.00	0.00
14,500.0	90.00	0.35	12,246.0	2,085.2	182.4	2,091.1	0.00	0.00	0.00
14,600.0	90.00	0.35	12,246.0	2,185.2	183.0	2,191.0	0.00	0.00	0.00
14,700.0	90.00	0.35	12,246.0	2,285.2	183.6	2,290.9	0.00	0.00	0.00
14,800.0	90.00	0.35	12,246.0	2,385.2	184.2	2,390.9	0.00	0.00	0.00
14,900.0	90.00	0.35	12,246.0	2,485.2	184.8	2,490.8	0.00	0.00	0.00
15,000.0	90.00	0.35	12,246.0	2,585.2	185.4	2,590.7	0.00	0.00	0.00
15,100.0	90.00	0.35	12,246.0	2,685.2	186.0	2,690.7	0.00	0.00	0.00
15,200.0	90.00	0.35	12,246.0	2,785.2	186.7	2,790.6	0.00	0.00	0.00
15,300.0	90.00	0.35	12,246.0	2,885.2	187.3	2,890.5	0.00	0.00	0.00
15,400.0	90.00	0.35	12,246.0	2,985.2	187.9	2,990.5	0.00	0.00	0.00
15,500.0	90.00	0.35	12,246.0	3,085.2	188.5	3,090.4	0.00	0.00	0.00
15,600.0	90.00	0.35	12,246.0	3,185.2	189.1	3,190.3	0.00	0.00	0.00
15,700.0	90.00	0.35	12,246.0	3,285.2	189.7	3,290.3	0.00	0.00	0.00
15,800.0	90.00	0.35	12,246.0	3,385.1	190.4	3,390.2	0.00	0.00	0.00
15,900.0	90.00	0.35	12,246.0	3,485.1	191.0	3,490.1	0.00	0.00	0.00
16,000.0	90.00	0.35	12,246.0	3,585.1	191.6	3,590.1	0.00	0.00	0.00
16,100.0	90.00	0.35	12,246.0	3,685.1	192.2	3,690.0	0.00	0.00	0.00
16,200.0	90.00	0.35	12,246.0	3,785.1	192.8	3,789.9	0.00	0.00	0.00
16,300.0	90.00	0.35	12,246.0	3,885.1	193.4	3,889.9	0.00	0.00	0.00
16,400.0	90.00	0.35	12,246.0	3,985.1	194.0	3,989.8	0.00	0.00	0.00
16,500.0	90.00	0.35	12,246.0	4,085.1	194.7	4,089.7	0.00	0.00	0.00
16,600.0	90.00	0.35	12,246.0	4,185.1	195.3	4,189.7	0.00	0.00	0.00
16,700.0	90.00	0.35	12,246.0	4,285.1	195.9	4,289.6	0.00	0.00	0.00
16,800.0	90.00	0.35	12,246.0	4,385.1	196.5	4,389.5	0.00	0.00	0.00
16,900.0	90.00	0.35	12,246.0	4,485.1	197.1	4,489.5	0.00	0.00	0.00
17,000.0	90.00	0.35	12,246.0	4,585.1	197.7	4,589.4	0.00	0.00	0.00
17,043.9	90.00	0.35	12,246.0	4,629.0	198.0	4,633.2	0.00	0.00	0.00

PBHL (Gem 36 State Cor #705H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Gem 36 State Cor) - hit/miss target - Shape	0.00	0.00	12,246.0	-87.0	169.0	393,799.00	759,379.00	32° 4' 50.438 N	103° 37' 45.614 W
- plan misses target center by 40.2usft at 12338.5usft MD (12209.0 TVD, -71.4 N, 168.4 E) - Point									
PBHL (Gem 36 State Cc) - plan hits target center - Point	0.00	0.00	12,246.0	4,629.0	198.0	398,515.00	759,408.00	32° 5' 37.104 N	103° 37' 44.919 W



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Local Co-ordinate Reference: Well #705H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature