

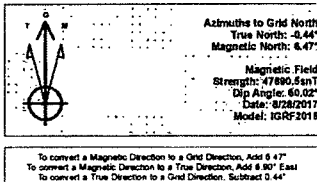
30-025-44758



Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #702H

Plan #0.2



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: #702H

KB = 25 @ 3493.0 nT 3493.0
Northing 425996.00 Easting 794435.00 Latitude 32° 10' 6.588 N Longitude 103° 30' 55.338 W

SECTION DETAILS

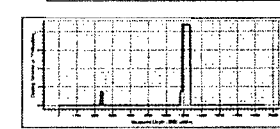
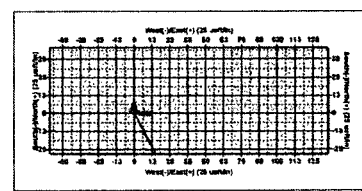
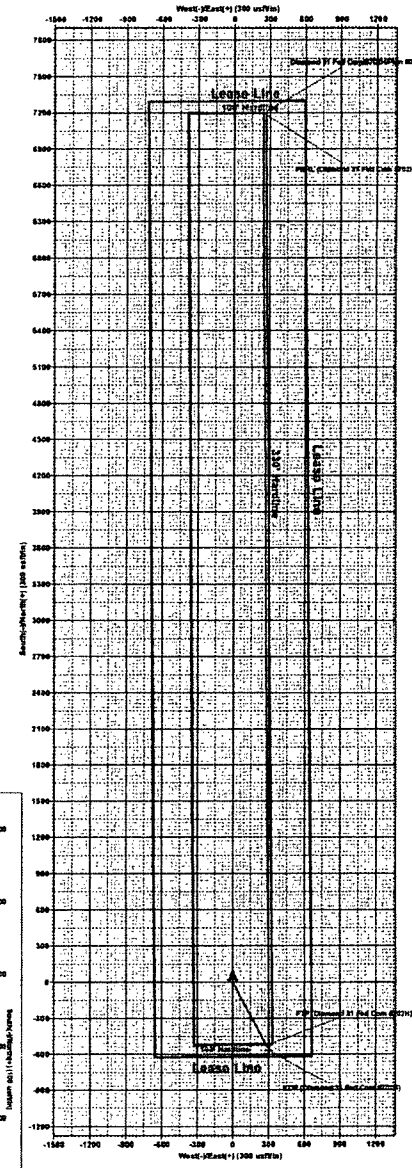
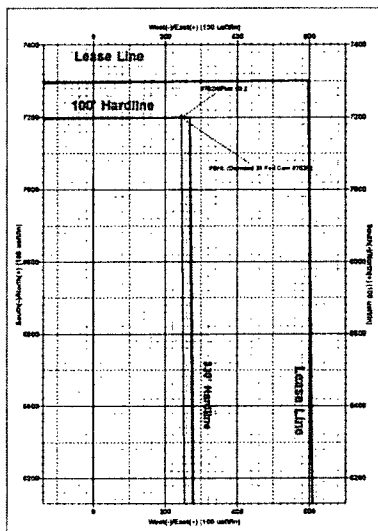
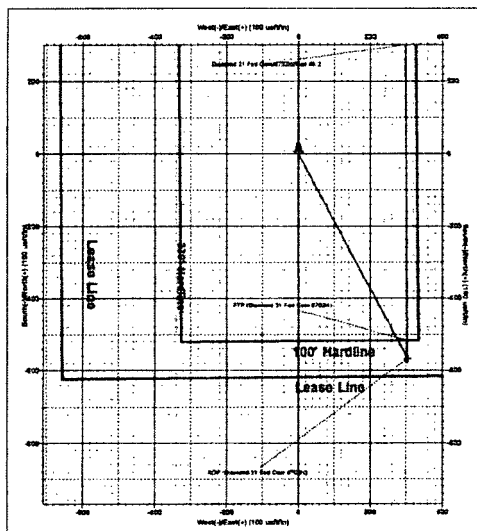
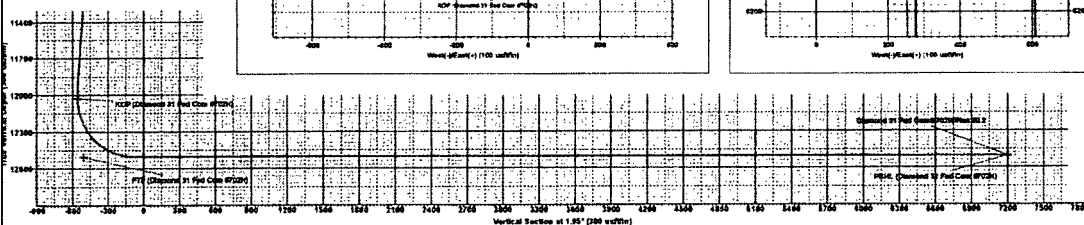
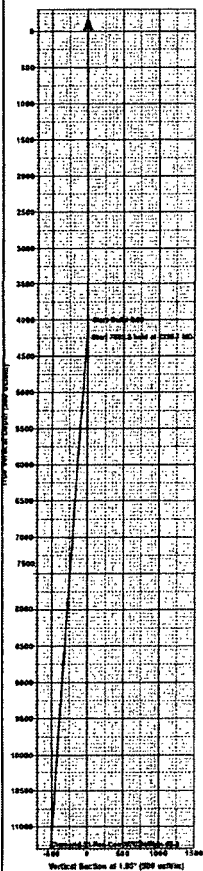
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	Vsect	Target
1	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4235.7	4.71	151.78	4235.5	-8.5	4.6	2.00	151.78	-8.4	
4	11815.9	4.71	151.78	11790.0	-557.5	209.4	0.00	0.00	-547.0	
5	12051.7	0.00	0.00	12025.5	-556.0	304.0	2.00	180.00	-555.3	KOP (Diamond 31 Fed Com #702H)
6	12801.7	90.00	359.56	12503.0	-88.6	300.4	12.00	359.56	-78.3	
7	20089.4	90.00	359.56	12503.0	7199.0	245.0	0.00	0.00	7203.2	PBHL (Diamond 31 Fed Com #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top (Diamond 31 Fed Com #702H)	7899.0	-88.0	82.0	425428.00	794527.00
KOP (Diamond 31 Fed Com #702H)	12025.5	-556.0	304.0	425430.00	794718.00
FTP (Diamond 31 Fed Com #702H)	12503.0	-618.0	304.0	425480.00	794739.00
PBHL (Diamond 31 Fed Com #702H)	12503.0	7199.0	245.0	431196.00	794680.00





HC-
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#702H

OH

Plan: Plan #0.2

Standard Planning Report

06 September, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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:	Diamond 31 Fed Com		
Site Position:	Northing:	425,996.00 usft	Latitude: 32° 10' 6.586 N
From: Map	Easting:	794,470.00 usft	Longitude: 103° 30' 54.929 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.44 "	

Well	#702H		
Well Position	+N/-S 0.0 usft	Northing: 425,996.00 usft	Latitude: 32° 10' 6.588 N
	+E/-W -35.0 usft	Easting: 794,435.00 usft	Longitude: 103° 30' 55.336 W
Position Uncertainty 0.0 usft	Wellhead Elevation:	Ground Level: 3,468.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/28/2017	6.90	60.02	47,890.45824773

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	1.95

Plan Survey Tool Program	Date: 9/6/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	20,089.4	Plan #0.2 (OH)	MWD	
			OWSG 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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,235.7	4.71	151.76	4,235.5	-8.5	4.6	2.00	2.00	0.00	151.76	
11,815.9	4.71	151.76	11,790.0	-557.5	299.4	0.00	0.00	0.00	0.00	
12,051.7	0.00	0.00	12,025.5	-566.0	304.0	2.00	-2.00	0.00	180.00	KOP (Diamond 31 Fe
12,801.7	90.00	359.56	12,503.0	-88.6	300.4	12.00	12.00	-0.06	359.56	
20,089.4	90.00	359.56	12,503.0	7,199.0	245.0	0.00	0.00	0.00	0.00	PBHL (Diamond 31 Fe



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TYD Reference:	KB = 25 @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	2.00	151.76	4,100.0	-1.5	0.8	-1.5	2.00	2.00	0.00
4,200.0	4.00	151.76	4,199.8	-6.1	3.3	-6.0	2.00	2.00	0.00
4,235.7	4.71	151.76	4,235.5	-8.5	4.6	-8.4	2.00	2.00	0.00
4,300.0	4.71	151.76	4,299.5	-13.2	7.1	-12.9	0.00	0.00	0.00
4,400.0	4.71	151.76	4,399.2	-20.4	11.0	-20.1	0.00	0.00	0.00
4,500.0	4.71	151.76	4,498.8	-27.7	14.9	-27.2	0.00	0.00	0.00
4,600.0	4.71	151.76	4,598.5	-34.9	18.8	-34.3	0.00	0.00	0.00
4,700.0	4.71	151.76	4,698.2	-42.2	22.6	-41.4	0.00	0.00	0.00
4,800.0	4.71	151.76	4,797.8	-49.4	26.5	-48.5	0.00	0.00	0.00
4,900.0	4.71	151.76	4,897.5	-56.6	30.4	-55.6	0.00	0.00	0.00
5,000.0	4.71	151.76	4,997.1	-63.9	34.3	-62.7	0.00	0.00	0.00
5,100.0	4.71	151.76	5,096.8	-71.1	38.2	-69.8	0.00	0.00	0.00
5,200.0	4.71	151.76	5,196.5	-78.4	42.1	-76.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Diamond 31 Fed Com
Well: #702H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3493.0usft
MD Reference: KB = 25 @ 3493.0usft
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	4.71	151.76	5,296.1	-85.6	46.0	-84.0	0.00	0.00	0.00
5,400.0	4.71	151.76	5,395.8	-92.9	49.9	-91.1	0.00	0.00	0.00
5,500.0	4.71	151.76	5,495.5	-100.1	53.8	-98.2	0.00	0.00	0.00
5,600.0	4.71	151.76	5,595.1	-107.3	57.6	-105.3	0.00	0.00	0.00
5,700.0	4.71	151.76	5,694.8	-114.6	61.5	-112.4	0.00	0.00	0.00
5,800.0	4.71	151.76	5,794.4	-121.8	65.4	-119.5	0.00	0.00	0.00
5,900.0	4.71	151.76	5,894.1	-129.1	69.3	-126.6	0.00	0.00	0.00
6,000.0	4.71	151.76	5,993.8	-136.3	73.2	-133.7	0.00	0.00	0.00
6,100.0	4.71	151.76	6,093.4	-143.5	77.1	-140.8	0.00	0.00	0.00
6,200.0	4.71	151.76	6,193.1	-150.8	81.0	-147.9	0.00	0.00	0.00
6,300.0	4.71	151.76	6,292.7	-158.0	84.9	-155.0	0.00	0.00	0.00
6,400.0	4.71	151.76	6,392.4	-165.3	88.8	-162.2	0.00	0.00	0.00
6,500.0	4.71	151.76	6,492.1	-172.5	92.7	-169.3	0.00	0.00	0.00
6,600.0	4.71	151.76	6,591.7	-179.7	96.5	-176.4	0.00	0.00	0.00
6,700.0	4.71	151.76	6,691.4	-187.0	100.4	-183.5	0.00	0.00	0.00
6,800.0	4.71	151.76	6,791.1	-194.2	104.3	-190.6	0.00	0.00	0.00
6,900.0	4.71	151.76	6,890.7	-201.5	108.2	-197.7	0.00	0.00	0.00
7,000.0	4.71	151.76	6,990.4	-208.7	112.1	-204.8	0.00	0.00	0.00
7,100.0	4.71	151.76	7,090.0	-216.0	116.0	-211.9	0.00	0.00	0.00
7,200.0	4.71	151.76	7,189.7	-223.2	119.9	-219.0	0.00	0.00	0.00
7,300.0	4.71	151.76	7,289.4	-230.4	123.8	-226.1	0.00	0.00	0.00
7,400.0	4.71	151.76	7,389.0	-237.7	127.7	-233.2	0.00	0.00	0.00
7,500.0	4.71	151.76	7,488.7	-244.9	131.5	-240.3	0.00	0.00	0.00
7,600.0	4.71	151.76	7,588.3	-252.2	135.4	-247.4	0.00	0.00	0.00
7,631.8	4.71	151.76	7,620.0	-254.5	136.7	-249.7	0.00	0.00	0.00
Brushy Top(Diamond 31 Fed Com #702H)									
7,700.0	4.71	151.76	7,688.0	-259.4	139.3	-254.5	0.00	0.00	0.00
7,800.0	4.71	151.76	7,787.7	-266.6	143.2	-261.6	0.00	0.00	0.00
7,900.0	4.71	151.76	7,887.3	-273.9	147.1	-268.7	0.00	0.00	0.00
8,000.0	4.71	151.76	7,987.0	-281.1	151.0	-275.8	0.00	0.00	0.00
8,100.0	4.71	151.76	8,086.7	-288.4	154.9	-282.9	0.00	0.00	0.00
8,200.0	4.71	151.76	8,186.3	-295.6	158.8	-290.0	0.00	0.00	0.00
8,300.0	4.71	151.76	8,286.0	-302.9	162.7	-297.1	0.00	0.00	0.00
8,400.0	4.71	151.76	8,385.6	-310.1	166.6	-304.3	0.00	0.00	0.00
8,500.0	4.71	151.76	8,485.3	-317.3	170.4	-311.4	0.00	0.00	0.00
8,600.0	4.71	151.76	8,585.0	-324.6	174.3	-318.5	0.00	0.00	0.00
8,700.0	4.71	151.76	8,684.6	-331.8	178.2	-325.6	0.00	0.00	0.00
8,800.0	4.71	151.76	8,784.3	-339.1	182.1	-332.7	0.00	0.00	0.00
8,900.0	4.71	151.76	8,883.9	-346.3	186.0	-339.8	0.00	0.00	0.00
9,000.0	4.71	151.76	8,983.6	-353.5	189.9	-346.9	0.00	0.00	0.00
9,100.0	4.71	151.76	9,083.3	-360.8	193.8	-354.0	0.00	0.00	0.00
9,200.0	4.71	151.76	9,182.9	-368.0	197.7	-361.1	0.00	0.00	0.00
9,300.0	4.71	151.76	9,282.6	-375.3	201.6	-368.2	0.00	0.00	0.00
9,400.0	4.71	151.76	9,382.3	-382.5	205.4	-375.3	0.00	0.00	0.00
9,500.0	4.71	151.76	9,481.9	-389.8	209.3	-382.4	0.00	0.00	0.00
9,600.0	4.71	151.76	9,581.6	-397.0	213.2	-389.5	0.00	0.00	0.00
9,700.0	4.71	151.76	9,681.2	-404.2	217.1	-396.6	0.00	0.00	0.00
9,800.0	4.71	151.76	9,780.9	-411.5	221.0	-403.7	0.00	0.00	0.00
9,900.0	4.71	151.76	9,880.6	-418.7	224.9	-410.8	0.00	0.00	0.00
10,000.0	4.71	151.76	9,980.2	-426.0	228.8	-417.9	0.00	0.00	0.00
10,100.0	4.71	151.76	10,079.9	-433.2	232.7	-425.0	0.00	0.00	0.00
10,200.0	4.71	151.76	10,179.6	-440.4	236.6	-432.1	0.00	0.00	0.00
10,300.0	4.71	151.76	10,279.2	-447.7	240.5	-439.2	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
10,400.0	4.71	151.76	10,378.9	-454.9	244.3	-446.4	0.00	0.00	0.00
10,500.0	4.71	151.76	10,478.5	-462.2	248.2	-453.5	0.00	0.00	0.00
10,600.0	4.71	151.76	10,578.2	-469.4	252.1	-460.6	0.00	0.00	0.00
10,700.0	4.71	151.76	10,677.9	-476.6	256.0	-467.7	0.00	0.00	0.00
10,800.0	4.71	151.76	10,777.5	-483.9	259.9	-474.8	0.00	0.00	0.00
10,900.0	4.71	151.76	10,877.2	-491.1	263.8	-481.9	0.00	0.00	0.00
11,000.0	4.71	151.76	10,976.8	-498.4	267.7	-489.0	0.00	0.00	0.00
11,100.0	4.71	151.76	11,076.5	-505.6	271.6	-496.1	0.00	0.00	0.00
11,200.0	4.71	151.76	11,176.2	-512.9	275.5	-503.2	0.00	0.00	0.00
11,300.0	4.71	151.76	11,275.8	-520.1	279.3	-510.3	0.00	0.00	0.00
11,400.0	4.71	151.76	11,375.5	-527.3	283.2	-517.4	0.00	0.00	0.00
11,500.0	4.71	151.76	11,475.2	-534.6	287.1	-524.5	0.00	0.00	0.00
11,600.0	4.71	151.76	11,574.8	-541.8	291.0	-531.6	0.00	0.00	0.00
11,700.0	4.71	151.76	11,674.5	-549.1	294.9	-538.7	0.00	0.00	0.00
11,800.0	4.71	151.76	11,774.1	-556.3	298.8	-545.8	0.00	0.00	0.00
11,815.9	4.71	151.76	11,790.0	-557.5	299.4	-547.0	0.00	0.00	0.00
11,900.0	3.03	151.76	11,873.9	-562.5	302.1	-551.9	2.00	-2.00	0.00
12,000.0	1.03	151.76	11,973.8	-565.6	303.8	-554.9	2.00	-2.00	0.00
12,051.7	0.00	0.00	12,025.5	-566.0	304.0	-555.3	2.00	-2.00	0.00
KOP (Diamond 31 Fed Com #702H)									
12,075.0	2.80	359.56	12,048.8	-565.4	304.0	-554.8	12.00	12.00	0.00
12,100.0	5.80	359.56	12,073.7	-563.6	304.0	-552.9	12.00	12.00	0.00
12,125.0	8.80	359.56	12,098.5	-560.4	304.0	-549.7	12.00	12.00	0.00
12,150.0	11.80	359.56	12,123.1	-555.9	303.9	-545.3	12.00	12.00	0.00
12,175.0	14.80	359.56	12,147.4	-550.2	303.9	-539.5	12.00	12.00	0.00
12,200.0	17.80	359.56	12,171.4	-543.1	303.8	-532.5	12.00	12.00	0.00
12,225.0	20.80	359.56	12,195.0	-534.9	303.8	-524.2	12.00	12.00	0.00
12,250.0	23.80	359.56	12,218.2	-525.4	303.7	-514.8	12.00	12.00	0.00
12,275.0	26.80	359.56	12,240.8	-514.7	303.6	-504.1	12.00	12.00	0.00
12,300.0	29.80	359.56	12,262.8	-502.9	303.5	-492.3	12.00	12.00	0.00
12,325.0	32.80	359.56	12,284.1	-489.9	303.4	-479.3	12.00	12.00	0.00
12,350.0	35.80	359.56	12,304.8	-475.8	303.3	-465.2	12.00	12.00	0.00
12,375.0	38.80	359.56	12,324.7	-460.7	303.2	-450.1	12.00	12.00	0.00
12,400.0	41.80	359.56	12,343.7	-444.5	303.1	-433.9	12.00	12.00	0.00
12,425.0	44.80	359.56	12,361.9	-427.3	302.9	-416.8	12.00	12.00	0.00
12,450.0	47.80	359.56	12,379.2	-409.3	302.8	-398.7	12.00	12.00	0.00
FTP (Diamond 31 Fed Com #702H)									
12,475.0	50.80	359.56	12,395.5	-390.3	302.7	-379.8	12.00	12.00	0.00
12,500.0	53.80	359.56	12,410.8	-370.5	302.5	-360.0	12.00	12.00	0.00
12,525.0	56.80	359.56	12,425.0	-350.0	302.4	-339.5	12.00	12.00	0.00
12,550.0	59.80	359.56	12,438.2	-328.7	302.2	-318.3	12.00	12.00	0.00
12,575.0	62.80	359.56	12,450.2	-306.8	302.0	-296.4	12.00	12.00	0.00
12,600.0	65.80	359.56	12,461.0	-284.3	301.9	-273.9	12.00	12.00	0.00
12,625.0	68.80	359.56	12,470.6	-261.2	301.7	-250.8	12.00	12.00	0.00
12,650.0	71.80	359.56	12,479.1	-237.7	301.5	-227.3	12.00	12.00	0.00
12,675.0	74.80	359.56	12,486.3	-213.7	301.3	-203.4	12.00	12.00	0.00
12,700.0	77.80	359.56	12,492.2	-189.5	301.1	-179.1	12.00	12.00	0.00
12,725.0	80.80	359.56	12,496.8	-164.9	301.0	-154.6	12.00	12.00	0.00
12,750.0	83.80	359.56	12,500.2	-140.1	300.8	-129.8	12.00	12.00	0.00
12,775.0	86.80	359.56	12,502.2	-115.2	300.6	-104.9	12.00	12.00	0.00
12,801.7	90.00	359.56	12,503.0	-88.6	300.4	-78.3	12.00	12.00	0.00
12,900.0	90.00	359.56	12,503.0	9.8	299.6	19.9	0.00	0.00	0.00
13,000.0	90.00	359.56	12,503.0	109.8	298.9	119.9	0.00	0.00	0.00
13,100.0	90.00	359.56	12,503.0	209.8	298.1	219.8	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	359.56	12,503.0	309.8	297.3	319.7	0.00	0.00	0.00	
13,300.0	90.00	359.56	12,503.0	409.8	296.6	419.6	0.00	0.00	0.00	
13,400.0	90.00	359.56	12,503.0	509.7	295.8	519.5	0.00	0.00	0.00	
13,500.0	90.00	359.56	12,503.0	609.7	295.1	619.4	0.00	0.00	0.00	
13,600.0	90.00	359.56	12,503.0	709.7	294.3	719.3	0.00	0.00	0.00	
13,700.0	90.00	359.56	12,503.0	809.7	293.5	819.3	0.00	0.00	0.00	
13,800.0	90.00	359.56	12,503.0	909.7	292.8	919.2	0.00	0.00	0.00	
13,900.0	90.00	359.56	12,503.0	1,009.7	292.0	1,019.1	0.00	0.00	0.00	
14,000.0	90.00	359.56	12,503.0	1,109.7	291.3	1,119.0	0.00	0.00	0.00	
14,100.0	90.00	359.56	12,503.0	1,209.7	290.5	1,218.9	0.00	0.00	0.00	
14,200.0	90.00	359.56	12,503.0	1,309.7	289.7	1,318.8	0.00	0.00	0.00	
14,300.0	90.00	359.56	12,503.0	1,409.7	289.0	1,418.7	0.00	0.00	0.00	
14,400.0	90.00	359.56	12,503.0	1,509.7	288.2	1,518.7	0.00	0.00	0.00	
14,500.0	90.00	359.56	12,503.0	1,609.7	287.5	1,618.6	0.00	0.00	0.00	
14,600.0	90.00	359.56	12,503.0	1,709.7	286.7	1,718.5	0.00	0.00	0.00	
14,700.0	90.00	359.56	12,503.0	1,809.7	285.9	1,818.4	0.00	0.00	0.00	
14,800.0	90.00	359.56	12,503.0	1,909.7	285.2	1,918.3	0.00	0.00	0.00	
14,900.0	90.00	359.56	12,503.0	2,009.7	284.4	2,018.2	0.00	0.00	0.00	
15,000.0	90.00	359.56	12,503.0	2,109.7	283.7	2,118.1	0.00	0.00	0.00	
15,100.0	90.00	359.56	12,503.0	2,209.7	282.9	2,218.0	0.00	0.00	0.00	
15,200.0	90.00	359.56	12,503.0	2,309.7	282.1	2,318.0	0.00	0.00	0.00	
15,300.0	90.00	359.56	12,503.0	2,409.7	281.4	2,417.9	0.00	0.00	0.00	
15,400.0	90.00	359.56	12,503.0	2,509.7	280.6	2,517.8	0.00	0.00	0.00	
15,500.0	90.00	359.56	12,503.0	2,609.7	279.9	2,617.7	0.00	0.00	0.00	
15,600.0	90.00	359.56	12,503.0	2,709.7	279.1	2,717.6	0.00	0.00	0.00	
15,700.0	90.00	359.56	12,503.0	2,809.7	278.4	2,817.5	0.00	0.00	0.00	
15,800.0	90.00	359.56	12,503.0	2,909.7	277.6	2,917.4	0.00	0.00	0.00	
15,900.0	90.00	359.56	12,503.0	3,009.7	276.8	3,017.4	0.00	0.00	0.00	
16,000.0	90.00	359.56	12,503.0	3,109.7	276.1	3,117.3	0.00	0.00	0.00	
16,100.0	90.00	359.56	12,503.0	3,209.7	275.3	3,217.2	0.00	0.00	0.00	
16,200.0	90.00	359.56	12,503.0	3,309.7	274.6	3,317.1	0.00	0.00	0.00	
16,300.0	90.00	359.56	12,503.0	3,409.7	273.8	3,417.0	0.00	0.00	0.00	
16,400.0	90.00	359.56	12,503.0	3,509.7	273.0	3,516.9	0.00	0.00	0.00	
16,500.0	90.00	359.56	12,503.0	3,609.7	272.3	3,616.8	0.00	0.00	0.00	
16,600.0	90.00	359.56	12,503.0	3,709.7	271.5	3,716.7	0.00	0.00	0.00	
16,700.0	90.00	359.56	12,503.0	3,809.7	270.8	3,816.7	0.00	0.00	0.00	
16,800.0	90.00	359.56	12,503.0	3,909.7	270.0	3,916.6	0.00	0.00	0.00	
16,900.0	90.00	359.56	12,503.0	4,009.6	269.2	4,016.5	0.00	0.00	0.00	
17,000.0	90.00	359.56	12,503.0	4,109.6	268.5	4,116.4	0.00	0.00	0.00	
17,100.0	90.00	359.56	12,503.0	4,209.6	267.7	4,216.3	0.00	0.00	0.00	
17,200.0	90.00	359.56	12,503.0	4,309.6	267.0	4,316.2	0.00	0.00	0.00	
17,300.0	90.00	359.56	12,503.0	4,409.6	266.2	4,416.1	0.00	0.00	0.00	
17,400.0	90.00	359.56	12,503.0	4,509.6	265.4	4,516.1	0.00	0.00	0.00	
17,500.0	90.00	359.56	12,503.0	4,609.6	264.7	4,616.0	0.00	0.00	0.00	
17,600.0	90.00	359.56	12,503.0	4,709.6	263.9	4,715.9	0.00	0.00	0.00	
17,700.0	90.00	359.56	12,503.0	4,809.6	263.2	4,815.8	0.00	0.00	0.00	
17,800.0	90.00	359.56	12,503.0	4,909.6	262.4	4,915.7	0.00	0.00	0.00	
17,900.0	90.00	359.56	12,503.0	5,009.6	261.6	5,015.6	0.00	0.00	0.00	
18,000.0	90.00	359.56	12,503.0	5,109.6	260.9	5,115.5	0.00	0.00	0.00	
18,100.0	90.00	359.56	12,503.0	5,209.6	260.1	5,215.4	0.00	0.00	0.00	
18,200.0	90.00	359.56	12,503.0	5,309.6	259.4	5,315.4	0.00	0.00	0.00	
18,300.0	90.00	359.56	12,503.0	5,409.6	258.6	5,415.3	0.00	0.00	0.00	
18,400.0	90.00	359.56	12,503.0	5,509.6	257.8	5,515.2	0.00	0.00	0.00	
18,500.0	90.00	359.56	12,503.0	5,609.6	257.1	5,615.1	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3493.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3493.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
18,600.0	90.00	359.56	12,503.0	5,709.6	256.3	5,715.0	0.00	0.00	0.00	
18,700.0	90.00	359.56	12,503.0	5,809.6	255.6	5,814.9	0.00	0.00	0.00	
18,800.0	90.00	359.56	12,503.0	5,909.6	254.8	5,914.8	0.00	0.00	0.00	
18,900.0	90.00	359.56	12,503.0	6,009.6	254.0	6,014.8	0.00	0.00	0.00	
19,000.0	90.00	359.56	12,503.0	6,109.6	253.3	6,114.7	0.00	0.00	0.00	
19,100.0	90.00	359.56	12,503.0	6,209.6	252.5	6,214.6	0.00	0.00	0.00	
19,200.0	90.00	359.56	12,503.0	6,309.6	251.8	6,314.5	0.00	0.00	0.00	
19,300.0	90.00	359.56	12,503.0	6,409.6	251.0	6,414.4	0.00	0.00	0.00	
19,400.0	90.00	359.56	12,503.0	6,509.6	250.2	6,514.3	0.00	0.00	0.00	
19,500.0	90.00	359.56	12,503.0	6,609.6	249.5	6,614.2	0.00	0.00	0.00	
19,600.0	90.00	359.56	12,503.0	6,709.6	248.7	6,714.1	0.00	0.00	0.00	
19,700.0	90.00	359.56	12,503.0	6,809.6	248.0	6,814.1	0.00	0.00	0.00	
19,800.0	90.00	359.56	12,503.0	6,909.6	247.2	6,914.0	0.00	0.00	0.00	
19,900.0	90.00	359.56	12,503.0	7,009.6	246.4	7,013.9	0.00	0.00	0.00	
20,000.0	90.00	359.56	12,503.0	7,109.6	245.7	7,113.8	0.00	0.00	0.00	
20,089.4	90.00	359.56	12,503.0	7,199.0	245.0	7,203.2	0.00	0.00	0.00	
PBHL (Diamond 31 Fed Com #702H)										

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										
KOP (Diamond 31 Fed C - plan hits target center - Point	0.00	0.00	12,025.5	-566.0	304.0	425,430.00	794,739.00	32° 10' 0.965 N		103° 30' 51.849 W
FTP (Diamond 31 Fed C - plan misses target center by 163.5usft at 12450.0usft MD (12379.2 TVD, -409.3 N, 302.8 E) - Point	0.00	0.00	12,503.0	-516.0	304.0	425,480.00	794,739.00	32° 10' 1.460 N		103° 30' 51.845 W
PBHL (Diamond 31 Fed - plan hits target center - Point	0.00	0.01	12,503.0	7,199.0	245.0	433,195.00	794,680.00	32° 11' 17.805 N		103° 30' 51.848 W