



Lea County, NM (NAD 83 NME)

Cobalt 32 State #707H

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: #707H

KB = 25 @ 3449.0usft 3424.0
Northing 425616.00 Easting 799745.00 Latitude 32° 10' 2.425 N Longitude 103° 29' 53.596 W

SECTION DETAILS

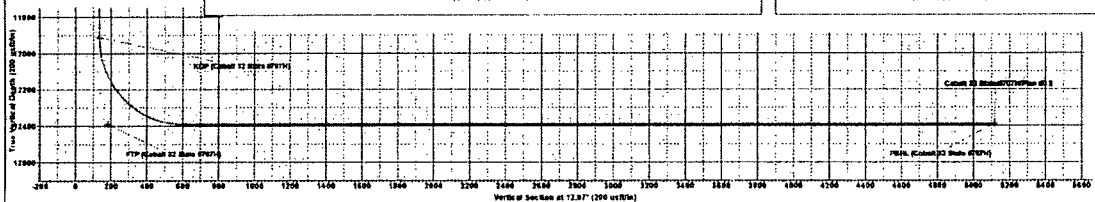
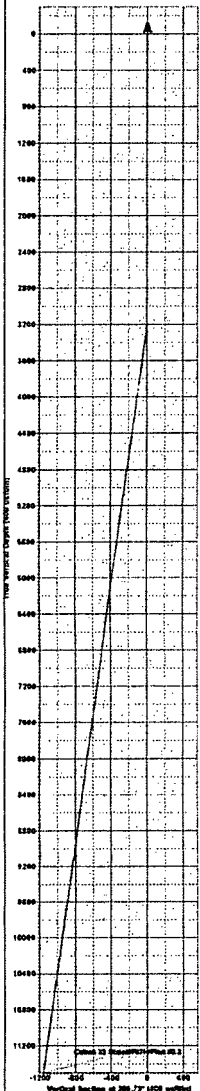
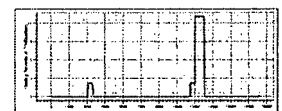
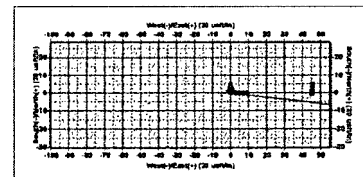
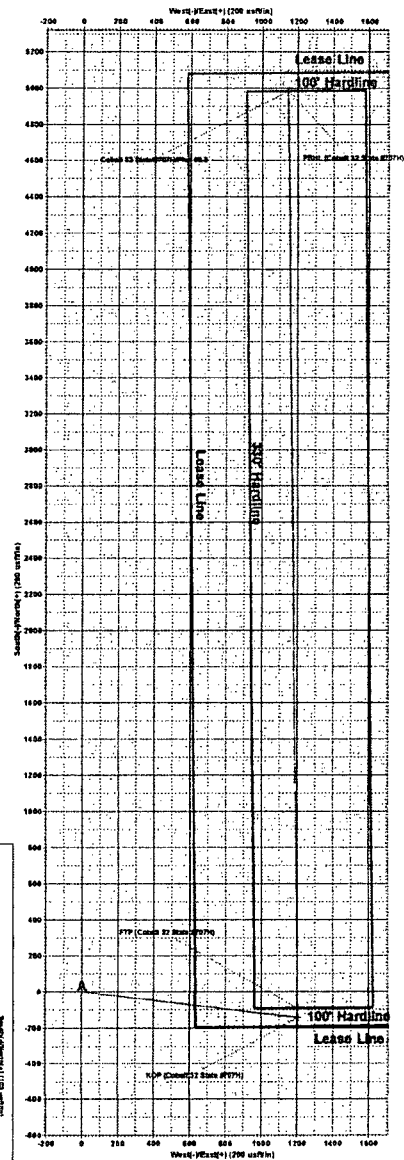
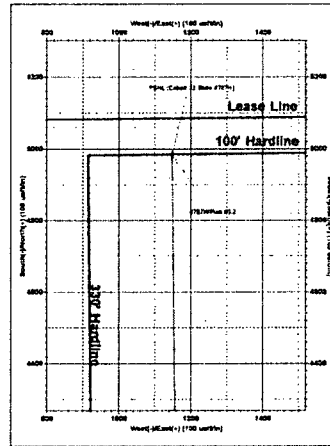
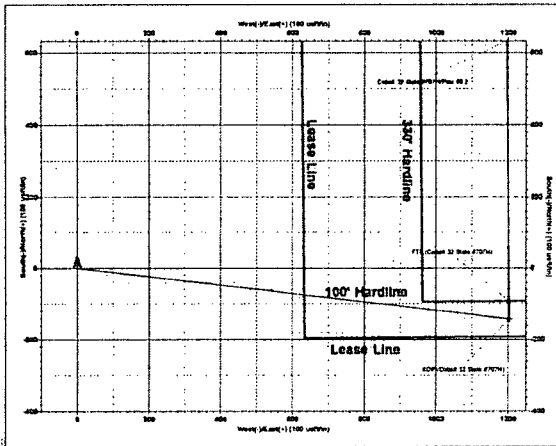
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3405.3	8.11	96.73	3403.9	-3.4	28.4	2.00	96.73	3.1	
4	11590.7	8.11	96.73	11507.6	-138.6	1174.6	0.00	0.00	128.5	
5	11998.0	0.00	0.00	11911.5	-142.0	1203.0	2.00	180.00	131.6	KOP (Cobalt 32 State #707H)
6	12746.0	90.00	359.39	12389.0	335.4	1197.9	12.00	359.39	595.7	
7	17395.6	90.00	359.39	12389.0	4985.0	1148.0	0.00	0.00	5115.5	PBHL (Cobalt 32 State #707H)

CASING DETAILS

No casing data is available

WELLBORE YARDOY DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP (Cobalt 32 State #707H)	11911.5	-142.0	1203.0	425474.00	800848.00
FTP (Cobalt 32 State #707H)	12389.0	82.0	1203.0	425634.00	800848.00
PBHL (Cobalt 32 State #707H)	12389.0	4985.0	1148.0	430621.00	800893.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Cobalt 32 State

#707H

OH

Plan: Plan #0.2

Standard Planning Report

05 October, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3449.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3449.0usft
Site:	Cobalt 32 State	North Reference:	Grid
Well:	#707H	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		Cobalt 32 State				
Site Position:		Northing:	425,645.00 usft	Latitude:	32° 10' 2.406 N	
From:	Map	Easting:	803,691.00 usft	Longitude:	103° 29' 7.689 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45

Well	#707H					
Well Position	+N/-S	-29.0 usft	Northing:	425,616.00 usft	Latitude:	32° 10' 2.425 N
	+E/-W	-3,946.0 usft	Easting:	799,745.00 usft	Longitude:	103° 29' 53.596 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,424.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/21/2018	6.79	60.01	47,791.03531754

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	12.97

Plan Survey Tool Program	Date	10/5/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,395.8 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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,405.3	8.11	96.73	3,403.9	-3.4	28.4	2.00	2.00	0.00	96.73	
11,590.7	8.11	96.73	11,507.6	-138.6	1,174.6	0.00	0.00	0.00	0.00	
11,996.0	0.00	0.00	11,911.5	-142.0	1,203.0	2.00	-2.00	0.00	180.00	KOP (Cobalt 32 State
12,746.0	90.00	359.39	12,389.0	335.4	1,197.9	12.00	12.00	-0.08	359.39	
17,395.8	90.00	359.39	12,389.0	4,985.0	1,148.0	0.00	0.00	0.00	0.00	PBHL (Cobalt 32 Stat



Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3449.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3449.0usft
Site:	Cobalt 32 State	North Reference:	Grid
Well:	#707H	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	2.00	96.73	3,100.0	-0.2	1.7	0.2	2.00	2.00	0.00	
3,200.0	4.00	96.73	3,199.8	-0.8	6.9	0.8	2.00	2.00	0.00	
3,300.0	6.00	96.73	3,299.5	-1.8	15.6	1.7	2.00	2.00	0.00	
3,405.3	8.11	96.73	3,403.9	-3.4	28.4	3.1	2.00	2.00	0.00	
3,500.0	8.11	96.73	3,497.7	-4.9	41.7	4.6	0.00	0.00	0.00	
3,600.0	8.11	96.73	3,596.7	-6.6	55.7	6.1	0.00	0.00	0.00	
3,700.0	8.11	96.73	3,695.7	-8.2	69.7	7.6	0.00	0.00	0.00	
3,800.0	8.11	96.73	3,794.7	-9.9	83.7	9.2	0.00	0.00	0.00	
3,900.0	8.11	96.73	3,893.7	-11.5	97.7	10.7	0.00	0.00	0.00	
4,000.0	8.11	96.73	3,992.7	-13.2	111.7	12.2	0.00	0.00	0.00	
4,100.0	8.11	96.73	4,091.7	-14.8	125.7	13.8	0.00	0.00	0.00	
4,200.0	8.11	96.73	4,190.7	-16.5	139.7	15.3	0.00	0.00	0.00	
4,300.0	8.11	96.73	4,289.7	-18.1	153.7	16.8	0.00	0.00	0.00	
4,400.0	8.11	96.73	4,388.7	-19.8	167.7	18.3	0.00	0.00	0.00	
4,500.0	8.11	96.73	4,487.7	-21.4	181.7	19.9	0.00	0.00	0.00	
4,600.0	8.11	96.73	4,586.7	-23.1	195.7	21.4	0.00	0.00	0.00	
4,700.0	8.11	96.73	4,685.7	-24.8	209.7	22.9	0.00	0.00	0.00	
4,800.0	8.11	96.73	4,784.7	-26.4	223.7	24.5	0.00	0.00	0.00	
4,900.0	8.11	96.73	4,883.7	-28.1	237.7	26.0	0.00	0.00	0.00	
5,000.0	8.11	96.73	4,982.7	-29.7	251.7	27.5	0.00	0.00	0.00	
5,100.0	8.11	96.73	5,081.7	-31.4	265.7	29.1	0.00	0.00	0.00	
5,200.0	8.11	96.73	5,180.7	-33.0	279.7	30.6	0.00	0.00	0.00	
5,300.0	8.11	96.73	5,279.7	-34.7	293.7	32.1	0.00	0.00	0.00	



Planning Report

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Site:	Cobalt 32 State	North Reference:	Grid
Well:	#707H	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)
5,400.0	8.11	96.73	5,378.7	-36.3	307.7	33.7	0.00	0.00	0.00
5,500.0	8.11	96.73	5,477.7	-38.0	321.7	35.2	0.00	0.00	0.00
5,600.0	8.11	96.73	5,576.7	-39.6	335.7	36.7	0.00	0.00	0.00
5,700.0	8.11	96.73	5,675.7	-41.3	349.7	38.3	0.00	0.00	0.00
5,800.0	8.11	96.73	5,774.7	-42.9	363.7	39.8	0.00	0.00	0.00
5,900.0	8.11	96.73	5,873.7	-44.6	377.7	41.3	0.00	0.00	0.00
6,000.0	8.11	96.73	5,972.7	-46.2	391.7	42.9	0.00	0.00	0.00
6,100.0	8.11	96.73	6,071.7	-47.9	405.7	44.4	0.00	0.00	0.00
6,200.0	8.11	96.73	6,170.7	-49.5	419.8	45.9	0.00	0.00	0.00
6,300.0	8.11	96.73	6,269.7	-51.2	433.8	47.4	0.00	0.00	0.00
6,400.0	8.11	96.73	6,368.7	-52.9	447.8	49.0	0.00	0.00	0.00
6,500.0	8.11	96.73	6,467.7	-54.5	461.8	50.5	0.00	0.00	0.00
6,600.0	8.11	96.73	6,566.7	-56.2	475.8	52.0	0.00	0.00	0.00
6,700.0	8.11	96.73	6,665.7	-57.8	489.8	53.6	0.00	0.00	0.00
6,800.0	8.11	96.73	6,764.7	-59.5	503.8	55.1	0.00	0.00	0.00
6,900.0	8.11	96.73	6,863.7	-61.1	517.8	56.6	0.00	0.00	0.00
7,000.0	8.11	96.73	6,962.7	-62.8	531.8	58.2	0.00	0.00	0.00
7,100.0	8.11	96.73	7,061.7	-64.4	545.8	59.7	0.00	0.00	0.00
7,200.0	8.11	96.73	7,160.7	-66.1	559.8	61.2	0.00	0.00	0.00
7,300.0	8.11	96.73	7,259.7	-67.7	573.8	62.8	0.00	0.00	0.00
7,400.0	8.11	96.73	7,358.7	-69.4	587.8	64.3	0.00	0.00	0.00
7,500.0	8.11	96.73	7,457.7	-71.0	601.8	65.8	0.00	0.00	0.00
7,600.0	8.11	96.73	7,556.7	-72.7	615.8	67.4	0.00	0.00	0.00
7,700.0	8.11	96.73	7,655.7	-74.3	629.8	68.9	0.00	0.00	0.00
7,800.0	8.11	96.73	7,754.7	-76.0	643.8	70.4	0.00	0.00	0.00
7,900.0	8.11	96.73	7,853.7	-77.6	657.8	72.0	0.00	0.00	0.00
8,000.0	8.11	96.73	7,952.7	-79.3	671.8	73.5	0.00	0.00	0.00
8,100.0	8.11	96.73	8,051.7	-81.0	685.8	75.0	0.00	0.00	0.00
8,200.0	8.11	96.73	8,150.8	-82.6	699.8	76.6	0.00	0.00	0.00
8,300.0	8.11	96.73	8,249.8	-84.3	713.8	78.1	0.00	0.00	0.00
8,400.0	8.11	96.73	8,348.8	-85.9	727.8	79.6	0.00	0.00	0.00
8,500.0	8.11	96.73	8,447.8	-87.6	741.8	81.1	0.00	0.00	0.00
8,600.0	8.11	96.73	8,546.8	-89.2	755.8	82.7	0.00	0.00	0.00
8,700.0	8.11	96.73	8,645.8	-90.9	769.8	84.2	0.00	0.00	0.00
8,800.0	8.11	96.73	8,744.8	-92.5	783.8	85.7	0.00	0.00	0.00
8,900.0	8.11	96.73	8,843.8	-94.2	797.8	87.3	0.00	0.00	0.00
9,000.0	8.11	96.73	8,942.8	-95.8	811.8	88.8	0.00	0.00	0.00
9,100.0	8.11	96.73	9,041.8	-97.5	825.8	90.3	0.00	0.00	0.00
9,200.0	8.11	96.73	9,140.8	-99.1	839.8	91.9	0.00	0.00	0.00
9,300.0	8.11	96.73	9,239.8	-100.8	853.8	93.4	0.00	0.00	0.00
9,400.0	8.11	96.73	9,338.8	-102.4	867.8	94.9	0.00	0.00	0.00
9,500.0	8.11	96.73	9,437.8	-104.1	881.8	96.5	0.00	0.00	0.00
9,600.0	8.11	96.73	9,536.8	-105.7	895.8	98.0	0.00	0.00	0.00
9,700.0	8.11	96.73	9,635.8	-107.4	909.8	99.5	0.00	0.00	0.00
9,800.0	8.11	96.73	9,734.8	-109.0	923.8	101.1	0.00	0.00	0.00
9,900.0	8.11	96.73	9,833.8	-110.7	937.8	102.6	0.00	0.00	0.00
10,000.0	8.11	96.73	9,932.8	-112.4	951.8	104.1	0.00	0.00	0.00
10,100.0	8.11	96.73	10,031.8	-114.0	965.8	105.7	0.00	0.00	0.00
10,200.0	8.11	96.73	10,130.8	-115.7	979.8	107.2	0.00	0.00	0.00
10,300.0	8.11	96.73	10,229.8	-117.3	993.8	108.7	0.00	0.00	0.00
10,400.0	8.11	96.73	10,328.8	-119.0	1,007.9	110.2	0.00	0.00	0.00
10,500.0	8.11	96.73	10,427.8	-120.6	1,021.9	111.8	0.00	0.00	0.00
10,600.0	8.11	96.73	10,526.8	-122.3	1,035.9	113.3	0.00	0.00	0.00
10,700.0	8.11	96.73	10,625.8	-123.9	1,049.9	114.8	0.00	0.00	0.00



Planning Report

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Site:	Cobalt 32 State	North Reference:	Grid
Well:	#707H	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)
10,800.0	8.11	96.73	10,724.8	-125.6	1,063.9	116.4	0.00	0.00	0.00
10,900.0	8.11	96.73	10,823.8	-127.2	1,077.9	117.9	0.00	0.00	0.00
11,000.0	8.11	96.73	10,922.8	-128.9	1,091.9	119.4	0.00	0.00	0.00
11,100.0	8.11	96.73	11,021.8	-130.5	1,105.9	121.0	0.00	0.00	0.00
11,200.0	8.11	96.73	11,120.8	-132.2	1,119.9	122.5	0.00	0.00	0.00
11,300.0	8.11	96.73	11,219.8	-133.8	1,133.9	124.0	0.00	0.00	0.00
11,400.0	8.11	96.73	11,318.8	-135.5	1,147.9	125.6	0.00	0.00	0.00
11,500.0	8.11	96.73	11,417.8	-137.1	1,161.9	127.1	0.00	0.00	0.00
11,590.7	8.11	96.73	11,507.6	-138.6	1,174.6	128.5	0.00	0.00	0.00
11,600.0	7.92	96.73	11,516.8	-138.8	1,175.9	128.6	2.00	-2.00	0.00
11,700.0	5.92	96.73	11,616.1	-140.2	1,187.8	129.9	2.00	-2.00	0.00
11,800.0	3.92	96.73	11,715.7	-141.2	1,196.3	130.9	2.00	-2.00	0.00
11,900.0	1.92	96.73	11,815.5	-141.8	1,201.4	131.4	2.00	-2.00	0.00
11,996.0	0.00	0.00	11,911.5	-142.0	1,203.0	131.6	2.00	-2.00	0.00
KOP (Cobalt 32 State #707H)									
12,000.0	0.48	359.39	11,915.5	-142.0	1,203.0	131.6	12.00	12.00	0.00
12,025.0	3.48	359.39	11,940.5	-141.1	1,203.0	132.5	12.00	12.00	0.00
12,050.0	6.48	359.39	11,965.4	-138.9	1,203.0	134.6	12.00	12.00	0.00
12,075.0	9.48	359.39	11,990.2	-135.5	1,202.9	137.9	12.00	12.00	0.00
12,100.0	12.48	359.39	12,014.7	-130.7	1,202.9	142.6	12.00	12.00	0.00
12,125.0	15.48	359.39	12,039.0	-124.7	1,202.8	148.4	12.00	12.00	0.00
12,150.0	18.48	359.39	12,062.9	-117.4	1,202.7	155.5	12.00	12.00	0.00
12,175.0	21.48	359.39	12,086.4	-108.8	1,202.6	163.8	12.00	12.00	0.00
12,200.0	24.48	359.39	12,109.4	-99.1	1,202.5	173.3	12.00	12.00	0.00
12,225.0	27.48	359.39	12,131.8	-88.1	1,202.4	184.0	12.00	12.00	0.00
12,250.0	30.48	359.39	12,153.7	-76.0	1,202.3	195.7	12.00	12.00	0.00
12,275.0	33.48	359.39	12,174.9	-62.8	1,202.2	208.6	12.00	12.00	0.00
12,300.0	36.48	359.39	12,195.4	-48.4	1,202.0	222.5	12.00	12.00	0.00
12,325.0	39.48	359.39	12,215.1	-33.1	1,201.8	237.5	12.00	12.00	0.00
12,350.0	42.48	359.39	12,234.0	-16.7	1,201.7	253.4	12.00	12.00	0.00
12,375.0	45.48	359.39	12,252.0	0.7	1,201.5	270.3	12.00	12.00	0.00
12,400.0	48.48	359.39	12,269.0	19.0	1,201.3	288.1	12.00	12.00	0.00
FTP (Cobalt 32 State #707H)									
12,425.0	51.48	359.39	12,285.1	38.1	1,201.1	306.7	12.00	12.00	0.00
12,450.0	54.48	359.39	12,300.1	58.1	1,200.9	326.1	12.00	12.00	0.00
12,475.0	57.48	359.39	12,314.1	78.8	1,200.6	346.2	12.00	12.00	0.00
12,500.0	60.48	359.39	12,327.0	100.2	1,200.4	367.0	12.00	12.00	0.00
12,525.0	63.48	359.39	12,338.7	122.3	1,200.2	388.5	12.00	12.00	0.00
12,550.0	66.48	359.39	12,349.3	144.9	1,199.9	410.5	12.00	12.00	0.00
12,575.0	69.48	359.39	12,358.7	168.1	1,199.7	433.0	12.00	12.00	0.00
12,600.0	72.48	359.39	12,366.8	191.7	1,199.4	456.0	12.00	12.00	0.00
12,625.0	75.48	359.39	12,373.7	215.8	1,199.2	479.4	12.00	12.00	0.00
12,650.0	78.48	359.39	12,379.4	240.1	1,198.9	503.0	12.00	12.00	0.00
12,675.0	81.48	359.39	12,383.7	264.7	1,198.6	527.0	12.00	12.00	0.00
12,700.0	84.48	359.39	12,386.8	289.5	1,198.4	551.1	12.00	12.00	0.00
12,725.0	87.48	359.39	12,388.5	314.5	1,198.1	575.3	12.00	12.00	0.00
12,746.0	90.00	359.39	12,389.0	335.4	1,197.9	595.7	12.00	12.00	0.00
12,800.0	90.00	359.39	12,389.0	389.5	1,197.3	648.2	0.00	0.00	0.00
12,900.0	90.00	359.39	12,389.0	489.5	1,196.2	745.4	0.00	0.00	0.00
13,000.0	90.00	359.39	12,389.0	589.5	1,195.2	842.6	0.00	0.00	0.00
13,100.0	90.00	359.39	12,389.0	689.4	1,194.1	939.8	0.00	0.00	0.00
13,200.0	90.00	359.39	12,389.0	789.4	1,193.0	1,037.0	0.00	0.00	0.00
13,300.0	90.00	359.39	12,389.0	889.4	1,191.9	1,134.2	0.00	0.00	0.00
13,400.0	90.00	359.39	12,389.0	989.4	1,190.9	1,231.4	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3449.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3449.0usft
Site:	Cobalt 32 State	North Reference:	Grid
Well:	#707H	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)
13,500.0	90.00	359.39	12,389.0	1,089.4	1,189.8	1,328.6	0.00	0.00	0.00
13,600.0	90.00	359.39	12,389.0	1,189.4	1,188.7	1,425.8	0.00	0.00	0.00
13,700.0	90.00	359.39	12,389.0	1,289.4	1,187.6	1,523.0	0.00	0.00	0.00
13,800.0	90.00	359.39	12,389.0	1,389.4	1,186.6	1,620.3	0.00	0.00	0.00
13,900.0	90.00	359.39	12,389.0	1,489.4	1,185.5	1,717.5	0.00	0.00	0.00
14,000.0	90.00	359.39	12,389.0	1,589.4	1,184.4	1,814.7	0.00	0.00	0.00
14,100.0	90.00	359.39	12,389.0	1,689.4	1,183.4	1,911.9	0.00	0.00	0.00
14,200.0	90.00	359.39	12,389.0	1,789.4	1,182.3	2,009.1	0.00	0.00	0.00
14,300.0	90.00	359.39	12,389.0	1,889.4	1,181.2	2,106.3	0.00	0.00	0.00
14,400.0	90.00	359.39	12,389.0	1,989.4	1,180.1	2,203.5	0.00	0.00	0.00
14,500.0	90.00	359.39	12,389.0	2,089.4	1,179.1	2,300.7	0.00	0.00	0.00
14,600.0	90.00	359.39	12,389.0	2,189.4	1,178.0	2,397.9	0.00	0.00	0.00
14,700.0	90.00	359.39	12,389.0	2,289.4	1,176.9	2,495.1	0.00	0.00	0.00
14,800.0	90.00	359.39	12,389.0	2,389.3	1,175.8	2,592.3	0.00	0.00	0.00
14,900.0	90.00	359.39	12,389.0	2,489.3	1,174.8	2,689.5	0.00	0.00	0.00
15,000.0	90.00	359.39	12,389.0	2,589.3	1,173.7	2,786.7	0.00	0.00	0.00
15,100.0	90.00	359.39	12,389.0	2,689.3	1,172.6	2,883.9	0.00	0.00	0.00
15,200.0	90.00	359.39	12,389.0	2,789.3	1,171.6	2,981.1	0.00	0.00	0.00
15,300.0	90.00	359.39	12,389.0	2,889.3	1,170.5	3,078.3	0.00	0.00	0.00
15,400.0	90.00	359.39	12,389.0	2,989.3	1,169.4	3,175.5	0.00	0.00	0.00
15,500.0	90.00	359.39	12,389.0	3,089.3	1,168.3	3,272.7	0.00	0.00	0.00
15,600.0	90.00	359.39	12,389.0	3,189.3	1,167.3	3,369.9	0.00	0.00	0.00
15,700.0	90.00	359.39	12,389.0	3,289.3	1,166.2	3,467.1	0.00	0.00	0.00
15,800.0	90.00	359.39	12,389.0	3,389.3	1,165.1	3,564.3	0.00	0.00	0.00
15,900.0	90.00	359.39	12,389.0	3,489.3	1,164.0	3,661.5	0.00	0.00	0.00
16,000.0	90.00	359.39	12,389.0	3,589.3	1,163.0	3,758.7	0.00	0.00	0.00
16,100.0	90.00	359.39	12,389.0	3,689.3	1,161.9	3,855.9	0.00	0.00	0.00
16,200.0	90.00	359.39	12,389.0	3,789.3	1,160.8	3,953.1	0.00	0.00	0.00
16,300.0	90.00	359.39	12,389.0	3,889.3	1,159.8	4,050.3	0.00	0.00	0.00
16,400.0	90.00	359.39	12,389.0	3,989.3	1,158.7	4,147.5	0.00	0.00	0.00
16,500.0	90.00	359.39	12,389.0	4,089.2	1,157.6	4,244.7	0.00	0.00	0.00
16,600.0	90.00	359.39	12,389.0	4,189.2	1,156.5	4,341.9	0.00	0.00	0.00
16,700.0	90.00	359.39	12,389.0	4,289.2	1,155.5	4,439.1	0.00	0.00	0.00
16,800.0	90.00	359.39	12,389.0	4,389.2	1,154.4	4,536.3	0.00	0.00	0.00
16,900.0	90.00	359.39	12,389.0	4,489.2	1,153.3	4,633.5	0.00	0.00	0.00
17,000.0	90.00	359.39	12,389.0	4,589.2	1,152.2	4,730.7	0.00	0.00	0.00
17,100.0	90.00	359.39	12,389.0	4,689.2	1,151.2	4,828.0	0.00	0.00	0.00
17,200.0	90.00	359.39	12,389.0	4,789.2	1,150.1	4,925.2	0.00	0.00	0.00
17,300.0	90.00	359.39	12,389.0	4,889.2	1,149.0	5,022.4	0.00	0.00	0.00
17,395.8	90.00	359.39	12,389.0	4,985.0	1,148.0	5,115.5	0.00	0.00	0.00

PBHL (Cobalt 32 State #707H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3449.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3449.0usft
Site:	Cobalt 32 State	North Reference:	Grid
Well:	#707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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									
KOP (Cobalt 32 State #7 - plan hits target center - Point	0.00	0.00	11,911.5	-142.0	1,203.0	425,474.00	800,948.00	32° 10' 0.927 N	103° 29' 39.615 W
PBHL (Cobalt 32 State #7 - plan hits target center - Point	0.00	0.01	12,389.0	4,985.0	1,148.0	430,601.00	800,893.00	32° 10' 51.663 N	103° 29' 39.789 W
FTP (Cobalt 32 State #7 - plan misses target center by 163.5usft at 12400.0usft MD (12269.0 TVD, 19.0 N, 1201.3 E) - Point	0.00	0.00	12,389.0	-92.0	1,203.0	425,524.00	800,948.00	32° 10' 1.422 N	103° 29' 39.610 W