

NOV 23 2018

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Lea County, NM (NAD 83 NME)

Cobalt 32 State #707H

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: #707H

KB = 35 @ 3449.0usft 3424.0
Northing 425816.00 Easting 799748.00 Latitude 32° 10' 24.25 N Longitude 102° 29' 13.506 W

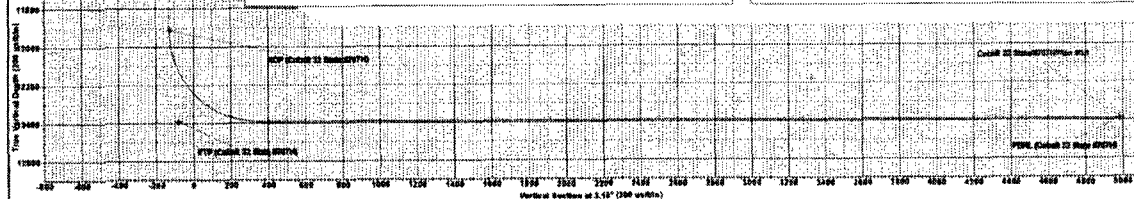
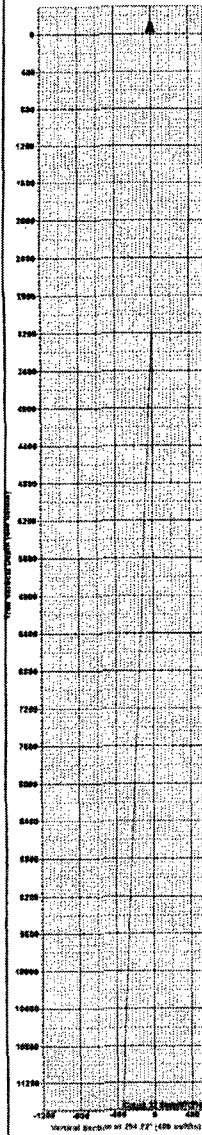
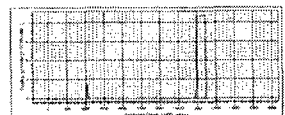
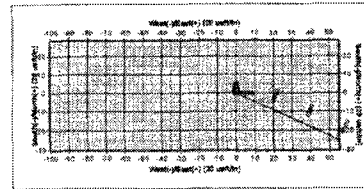
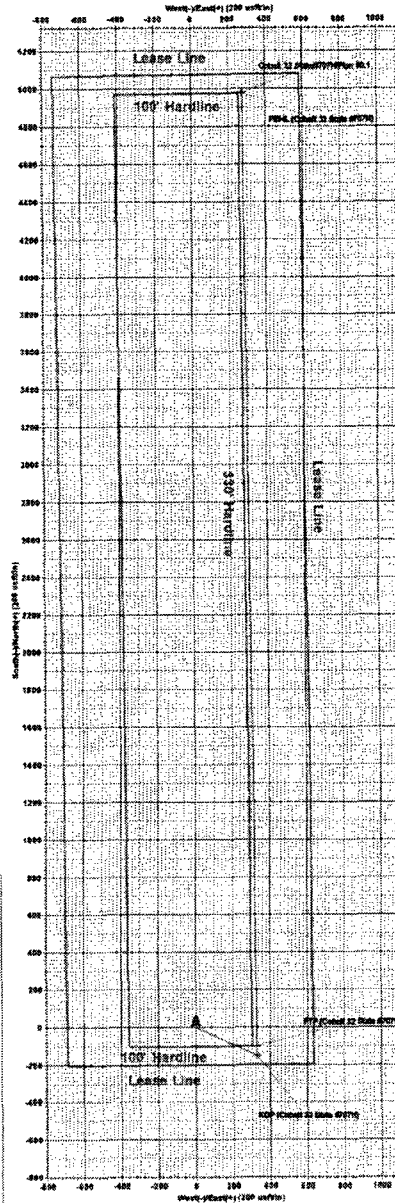
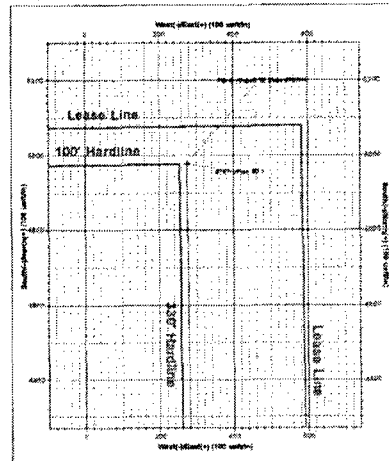
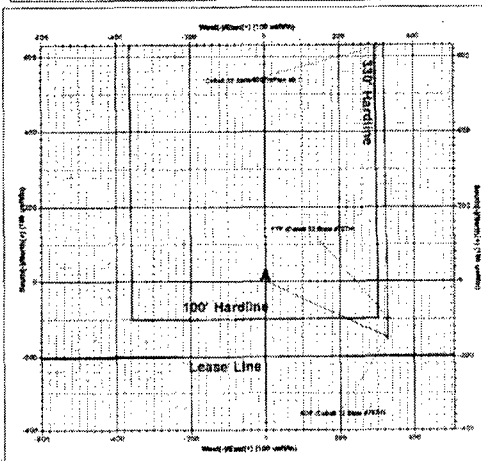
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	IFace	VSeet	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	3117.5	2.35	114.22	3117.4	-1.0	2.2	2.00	114.22	-0.9	
4	11801.4	2.35	114.22	11794.1	-147.0	326.6	0.00	0.00	-128.8	
5	11918.9	0.00	0.00	11911.5	-148.0	329.0	2.00	180.00	-129.7	KOP (Cobalt 32 State #707H)
6	12688.9	90.00	359.39	12389.0	329.4	323.9	12.00	359.39	346.7	
7	17316.7	90.00	359.39	12389.0	4977.0	274.0	0.00	0.00	4884.5	PBHL (Cobalt 32 State #707H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Cobalt 32 State #707H)	11911.5	-148.0	329.0	425816.00	800074.00
PTP (Cobalt 32 State #707H)	12389.0	329.4	323.9	425816.00	800074.00
PBHL (Cobalt 32 State #707H)	12389.0	4977.0	274.0	420593.00	800019.00





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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Cobalt 32 State

#707H

OH

Plan: Plan #0.1

Standard Planning Report

21 August, 2018

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 #0.1		

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
From:	Map	Easting:	803,691.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.406 N
		Longitude:	103° 29' 7.689 W
		Grid Convergence:	0.45 °

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

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

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			3.15

Plan Survey Tool Program	Date	8/21/2018	
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	17,316.7 Plan #0.1 (OH)	MWD
			OWSG MWD - Standard
			Remarks

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
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	
3,117.5	2.35	114.22	3,117.4	-1.0	2.2	2.00	2.00	0.00	114.22	
11,801.4	2.35	114.22	11,794.1	-147.0	326.8	0.00	0.00	0.00	0.00	
11,918.9	0.00	0.00	11,911.5	-148.0	329.0	2.00	-2.00	0.00	180.00 KOP (Cobalt 32 State	
12,668.9	90.00	359.39	12,389.0	329.4	323.9	12.00	12.00	-0.08	359.39	
17,316.7	90.00	359.39	12,389.0	4,977.0	274.0	0.00	0.00	0.00	0.00 PBHL (Cobalt 32 Stat	



Planning Report

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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Cobalt 32 State
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25 @ 3449.0usft
MD Reference: KB = 25 @ 3449.0usft
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	2.00	114.22	3,100.0	-0.7	1.6	-0.6	2.00	2.00	0.00
3,117.5	2.35	114.22	3,117.4	-1.0	2.2	-0.9	2.00	2.00	0.00
3,200.0	2.35	114.22	3,199.9	-2.4	5.3	-2.1	0.00	0.00	0.00
3,300.0	2.35	114.22	3,299.8	-4.1	9.0	-3.6	0.00	0.00	0.00
3,400.0	2.35	114.22	3,399.7	-5.7	12.8	-5.0	0.00	0.00	0.00
3,500.0	2.35	114.22	3,499.6	-7.4	16.5	-6.5	0.00	0.00	0.00
3,600.0	2.35	114.22	3,599.6	-9.1	20.2	-8.0	0.00	0.00	0.00
3,700.0	2.35	114.22	3,699.5	-10.8	24.0	-9.4	0.00	0.00	0.00
3,800.0	2.35	114.22	3,799.4	-12.5	27.7	-10.9	0.00	0.00	0.00
3,900.0	2.35	114.22	3,899.3	-14.1	31.4	-12.4	0.00	0.00	0.00
4,000.0	2.35	114.22	3,999.2	-15.8	35.2	-13.9	0.00	0.00	0.00
4,100.0	2.35	114.22	4,099.1	-17.5	38.9	-15.3	0.00	0.00	0.00
4,200.0	2.35	114.22	4,199.1	-19.2	42.7	-16.8	0.00	0.00	0.00
4,300.0	2.35	114.22	4,299.0	-20.9	46.4	-18.3	0.00	0.00	0.00
4,400.0	2.35	114.22	4,398.9	-22.6	50.1	-19.8	0.00	0.00	0.00
4,500.0	2.35	114.22	4,498.8	-24.2	53.9	-21.2	0.00	0.00	0.00
4,600.0	2.35	114.22	4,598.7	-25.9	57.6	-22.7	0.00	0.00	0.00
4,700.0	2.35	114.22	4,698.6	-27.6	61.4	-24.2	0.00	0.00	0.00
4,800.0	2.35	114.22	4,798.6	-29.3	65.1	-25.7	0.00	0.00	0.00
4,900.0	2.35	114.22	4,898.5	-31.0	68.8	-27.1	0.00	0.00	0.00
5,000.0	2.35	114.22	4,998.4	-32.6	72.6	-28.6	0.00	0.00	0.00
5,100.0	2.35	114.22	5,098.3	-34.3	76.3	-30.1	0.00	0.00	0.00
5,200.0	2.35	114.22	5,198.2	-36.0	80.0	-31.6	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Cobalt 32 State
 Well: #707H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3449.0usft
 MD Reference: KB = 25 @ 3449.0usft
 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	2.35	114.22	5,298.1	-37.7	83.8	-33.0	0.00	0.00	0.00
5,400.0	2.35	114.22	5,398.0	-39.4	87.5	-34.5	0.00	0.00	0.00
5,500.0	2.35	114.22	5,498.0	-41.1	91.3	-36.0	0.00	0.00	0.00
5,600.0	2.35	114.22	5,597.9	-42.7	95.0	-37.4	0.00	0.00	0.00
5,700.0	2.35	114.22	5,697.8	-44.4	98.7	-38.9	0.00	0.00	0.00
5,800.0	2.35	114.22	5,797.7	-46.1	102.5	-40.4	0.00	0.00	0.00
5,900.0	2.35	114.22	5,897.6	-47.8	106.2	-41.9	0.00	0.00	0.00
6,000.0	2.35	114.22	5,997.5	-49.5	109.9	-43.3	0.00	0.00	0.00
6,100.0	2.35	114.22	6,097.5	-51.1	113.7	-44.8	0.00	0.00	0.00
6,200.0	2.35	114.22	6,197.4	-52.8	117.4	-46.3	0.00	0.00	0.00
6,300.0	2.35	114.22	6,297.3	-54.5	121.2	-47.8	0.00	0.00	0.00
6,400.0	2.35	114.22	6,397.2	-56.2	124.9	-49.2	0.00	0.00	0.00
6,500.0	2.35	114.22	6,497.1	-57.9	128.6	-50.7	0.00	0.00	0.00
6,600.0	2.35	114.22	6,597.0	-59.5	132.4	-52.2	0.00	0.00	0.00
6,700.0	2.35	114.22	6,697.0	-61.2	136.1	-53.7	0.00	0.00	0.00
6,800.0	2.35	114.22	6,796.9	-62.9	139.9	-55.1	0.00	0.00	0.00
6,900.0	2.35	114.22	6,896.8	-64.6	143.6	-56.6	0.00	0.00	0.00
7,000.0	2.35	114.22	6,996.7	-66.3	147.3	-58.1	0.00	0.00	0.00
7,100.0	2.35	114.22	7,096.6	-68.0	151.1	-59.5	0.00	0.00	0.00
7,200.0	2.35	114.22	7,196.5	-69.6	154.8	-61.0	0.00	0.00	0.00
7,300.0	2.35	114.22	7,296.5	-71.3	158.5	-62.5	0.00	0.00	0.00
7,400.0	2.35	114.22	7,396.4	-73.0	162.3	-64.0	0.00	0.00	0.00
7,500.0	2.35	114.22	7,496.3	-74.7	166.0	-65.4	0.00	0.00	0.00
7,600.0	2.35	114.22	7,596.2	-76.4	169.8	-66.9	0.00	0.00	0.00
7,700.0	2.35	114.22	7,696.1	-78.0	173.5	-68.4	0.00	0.00	0.00
7,800.0	2.35	114.22	7,796.0	-79.7	177.2	-69.9	0.00	0.00	0.00
7,900.0	2.35	114.22	7,895.9	-81.4	181.0	-71.3	0.00	0.00	0.00
8,000.0	2.35	114.22	7,995.9	-83.1	184.7	-72.8	0.00	0.00	0.00
8,100.0	2.35	114.22	8,095.8	-84.8	188.4	-74.3	0.00	0.00	0.00
8,200.0	2.35	114.22	8,195.7	-86.5	192.2	-75.8	0.00	0.00	0.00
8,300.0	2.35	114.22	8,295.6	-88.1	195.9	-77.2	0.00	0.00	0.00
8,400.0	2.35	114.22	8,395.5	-89.8	199.7	-78.7	0.00	0.00	0.00
8,500.0	2.35	114.22	8,495.4	-91.5	203.4	-80.2	0.00	0.00	0.00
8,600.0	2.35	114.22	8,595.4	-93.2	207.1	-81.7	0.00	0.00	0.00
8,700.0	2.35	114.22	8,695.3	-94.9	210.9	-83.1	0.00	0.00	0.00
8,800.0	2.35	114.22	8,795.2	-96.5	214.6	-84.6	0.00	0.00	0.00
8,900.0	2.35	114.22	8,895.1	-98.2	218.3	-86.1	0.00	0.00	0.00
9,000.0	2.35	114.22	8,995.0	-99.9	222.1	-87.5	0.00	0.00	0.00
9,100.0	2.35	114.22	9,094.9	-101.6	225.8	-89.0	0.00	0.00	0.00
9,200.0	2.35	114.22	9,194.9	-103.3	229.6	-90.5	0.00	0.00	0.00
9,300.0	2.35	114.22	9,294.8	-105.0	233.3	-92.0	0.00	0.00	0.00
9,400.0	2.35	114.22	9,394.7	-106.6	237.0	-93.4	0.00	0.00	0.00
9,500.0	2.35	114.22	9,494.6	-108.3	240.8	-94.9	0.00	0.00	0.00
9,600.0	2.35	114.22	9,594.5	-110.0	244.5	-96.4	0.00	0.00	0.00
9,700.0	2.35	114.22	9,694.4	-111.7	248.3	-97.9	0.00	0.00	0.00
9,800.0	2.35	114.22	9,794.4	-113.4	252.0	-99.3	0.00	0.00	0.00
9,900.0	2.35	114.22	9,894.3	-115.0	255.7	-100.8	0.00	0.00	0.00
10,000.0	2.35	114.22	9,994.2	-116.7	259.5	-102.3	0.00	0.00	0.00
10,100.0	2.35	114.22	10,094.1	-118.4	263.2	-103.8	0.00	0.00	0.00
10,200.0	2.35	114.22	10,194.0	-120.1	266.9	-105.2	0.00	0.00	0.00
10,300.0	2.35	114.22	10,293.9	-121.8	270.7	-106.7	0.00	0.00	0.00
10,400.0	2.35	114.22	10,393.8	-123.4	274.4	-108.2	0.00	0.00	0.00
10,500.0	2.35	114.22	10,493.8	-125.1	278.2	-109.6	0.00	0.00	0.00
10,600.0	2.35	114.22	10,593.7	-126.8	281.9	-111.1	0.00	0.00	0.00

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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	2.35	114.22	10,693.6	-128.5	285.6	-112.6	0.00	0.00	0.00
10,800.0	2.35	114.22	10,793.5	-130.2	289.4	-114.1	0.00	0.00	0.00
10,900.0	2.35	114.22	10,893.4	-131.9	293.1	-115.5	0.00	0.00	0.00
11,000.0	2.35	114.22	10,993.3	-133.5	296.8	-117.0	0.00	0.00	0.00
11,100.0	2.35	114.22	11,093.3	-135.2	300.6	-118.5	0.00	0.00	0.00
11,200.0	2.35	114.22	11,193.2	-136.9	304.3	-120.0	0.00	0.00	0.00
11,300.0	2.35	114.22	11,293.1	-138.6	308.1	-121.4	0.00	0.00	0.00
11,400.0	2.35	114.22	11,393.0	-140.3	311.8	-122.9	0.00	0.00	0.00
11,500.0	2.35	114.22	11,492.9	-141.9	315.5	-124.4	0.00	0.00	0.00
11,600.0	2.35	114.22	11,592.8	-143.6	319.3	-125.9	0.00	0.00	0.00
11,700.0	2.35	114.22	11,692.8	-145.3	323.0	-127.3	0.00	0.00	0.00
11,801.4	2.35	114.22	11,794.1	-147.0	326.8	-128.8	0.00	0.00	0.00
11,900.0	0.38	114.22	11,892.6	-148.0	328.9	-129.7	2.00	-2.00	0.00
11,918.9	0.00	0.00	11,911.5	-148.0	329.0	-129.7	2.00	-2.00	0.00
KOP (Cobalt 32 State #707H)									
11,925.0	0.74	359.39	11,917.6	-148.0	329.0	-129.7	12.00	12.00	0.00
11,950.0	3.74	359.39	11,942.6	-147.0	329.0	-128.7	12.00	12.00	0.00
11,975.0	6.74	359.39	11,967.5	-144.7	329.0	-126.4	12.00	12.00	0.00
12,000.0	9.74	359.39	11,992.2	-141.1	328.9	-122.8	12.00	12.00	0.00
12,025.0	12.74	359.39	12,016.8	-136.3	328.9	-118.0	12.00	12.00	0.00
12,050.0	15.74	359.39	12,041.0	-130.1	328.8	-111.8	12.00	12.00	0.00
12,075.0	18.74	359.39	12,064.9	-122.7	328.7	-104.4	12.00	12.00	0.00
12,100.0	21.74	359.39	12,088.3	-114.1	328.6	-95.8	12.00	12.00	0.00
12,125.0	24.74	359.39	12,111.3	-104.2	328.5	-86.0	12.00	12.00	0.00
12,150.0	27.74	359.39	12,133.7	-93.1	328.4	-74.9	12.00	12.00	0.00
12,175.0	30.74	359.39	12,155.5	-80.9	328.3	-62.8	12.00	12.00	0.00
12,200.0	33.74	359.39	12,176.7	-67.6	328.1	-49.5	12.00	12.00	0.00
12,225.0	36.74	359.39	12,197.1	-53.2	328.0	-35.1	12.00	12.00	0.00
12,250.0	39.74	359.39	12,216.7	-37.7	327.8	-19.6	12.00	12.00	0.00
12,275.0	42.74	359.39	12,235.5	-21.2	327.6	-3.2	12.00	12.00	0.00
12,300.0	45.74	359.39	12,253.4	-3.8	327.5	14.2	12.00	12.00	0.00
12,322.9	48.48	359.39	12,269.0	13.0	327.3	30.9	12.00	12.00	0.00
FTP (Cobalt 32 State #707H)									
12,325.0	48.74	359.39	12,270.4	14.6	327.3	32.5	12.00	12.00	0.00
12,350.0	51.74	359.39	12,286.4	33.8	327.0	51.7	12.00	12.00	0.00
12,375.0	54.74	359.39	12,301.4	53.8	326.8	71.7	12.00	12.00	0.00
12,400.0	57.74	359.39	12,315.2	74.6	326.6	92.4	12.00	12.00	0.00
12,425.0	60.74	359.39	12,328.0	96.1	326.4	113.8	12.00	12.00	0.00
12,450.0	63.74	359.39	12,339.7	118.2	326.1	135.9	12.00	12.00	0.00
12,475.0	66.74	359.39	12,350.1	140.9	325.9	158.6	12.00	12.00	0.00
12,500.0	69.74	359.39	12,359.4	164.1	325.7	181.7	12.00	12.00	0.00
12,525.0	72.74	359.39	12,367.5	187.7	325.4	205.4	12.00	12.00	0.00
12,550.0	75.74	359.39	12,374.2	211.8	325.1	229.4	12.00	12.00	0.00
12,575.0	78.74	359.39	12,379.8	236.2	324.9	253.7	12.00	12.00	0.00
12,600.0	81.74	359.39	12,384.0	260.8	324.6	278.3	12.00	12.00	0.00
12,625.0	84.74	359.39	12,387.0	285.6	324.3	303.0	12.00	12.00	0.00
12,650.0	87.74	359.39	12,388.6	310.6	324.1	327.9	12.00	12.00	0.00
12,668.9	90.00	359.39	12,389.0	329.4	323.9	346.7	12.00	12.00	0.00
12,700.0	90.00	359.39	12,389.0	360.6	323.5	377.8	0.00	0.00	0.00
12,800.0	90.00	359.39	12,389.0	460.6	322.5	477.6	0.00	0.00	0.00
12,900.0	90.00	359.39	12,389.0	560.6	321.4	577.4	0.00	0.00	0.00
13,000.0	90.00	359.39	12,389.0	660.6	320.3	677.2	0.00	0.00	0.00
13,100.0	90.00	359.39	12,389.0	760.5	319.2	776.9	0.00	0.00	0.00
13,200.0	90.00	359.39	12,389.0	860.5	318.2	876.7	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Cobalt 32 State
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25 @ 3449.0usft
MD Reference: KB = 25 @ 3449.0usft
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	359.39	12,389.0	960.5	317.1	976.5	0.00	0.00	0.00
13,400.0	90.00	359.39	12,389.0	1,060.5	316.0	1,076.3	0.00	0.00	0.00
13,500.0	90.00	359.39	12,389.0	1,160.5	315.0	1,176.1	0.00	0.00	0.00
13,600.0	90.00	359.39	12,389.0	1,260.5	313.9	1,275.9	0.00	0.00	0.00
13,700.0	90.00	359.39	12,389.0	1,360.5	312.8	1,375.7	0.00	0.00	0.00
13,800.0	90.00	359.39	12,389.0	1,460.5	311.7	1,475.4	0.00	0.00	0.00
13,900.0	90.00	359.39	12,389.0	1,560.5	310.7	1,575.2	0.00	0.00	0.00
14,000.0	90.00	359.39	12,389.0	1,660.5	309.6	1,675.0	0.00	0.00	0.00
14,100.0	90.00	359.39	12,389.0	1,760.5	308.5	1,774.8	0.00	0.00	0.00
14,200.0	90.00	359.39	12,389.0	1,860.5	307.4	1,874.6	0.00	0.00	0.00
14,300.0	90.00	359.39	12,389.0	1,960.5	306.4	1,974.4	0.00	0.00	0.00
14,400.0	90.00	359.39	12,389.0	2,060.5	305.3	2,074.1	0.00	0.00	0.00
14,500.0	90.00	359.39	12,389.0	2,160.5	304.2	2,173.9	0.00	0.00	0.00
14,600.0	90.00	359.39	12,389.0	2,260.5	303.2	2,273.7	0.00	0.00	0.00
14,700.0	90.00	359.39	12,389.0	2,360.5	302.1	2,373.5	0.00	0.00	0.00
14,800.0	90.00	359.39	12,389.0	2,460.5	301.0	2,473.3	0.00	0.00	0.00
14,900.0	90.00	359.39	12,389.0	2,560.4	299.9	2,573.1	0.00	0.00	0.00
15,000.0	90.00	359.39	12,389.0	2,660.4	298.9	2,672.8	0.00	0.00	0.00
15,100.0	90.00	359.39	12,389.0	2,760.4	297.8	2,772.6	0.00	0.00	0.00
15,200.0	90.00	359.39	12,389.0	2,860.4	296.7	2,872.4	0.00	0.00	0.00
15,300.0	90.00	359.39	12,389.0	2,960.4	295.6	2,972.2	0.00	0.00	0.00
15,400.0	90.00	359.39	12,389.0	3,060.4	294.6	3,072.0	0.00	0.00	0.00
15,500.0	90.00	359.39	12,389.0	3,160.4	293.5	3,171.8	0.00	0.00	0.00
15,600.0	90.00	359.39	12,389.0	3,260.4	292.4	3,271.5	0.00	0.00	0.00
15,700.0	90.00	359.39	12,389.0	3,360.4	291.3	3,371.3	0.00	0.00	0.00
15,800.0	90.00	359.39	12,389.0	3,460.4	290.3	3,471.1	0.00	0.00	0.00
15,900.0	90.00	359.39	12,389.0	3,560.4	289.2	3,570.9	0.00	0.00	0.00
16,000.0	90.00	359.39	12,389.0	3,660.4	288.1	3,670.7	0.00	0.00	0.00
16,100.0	90.00	359.39	12,389.0	3,760.4	287.1	3,770.5	0.00	0.00	0.00
16,200.0	90.00	359.39	12,389.0	3,860.4	286.0	3,870.3	0.00	0.00	0.00
16,300.0	90.00	359.39	12,389.0	3,960.4	284.9	3,970.0	0.00	0.00	0.00
16,400.0	90.00	359.39	12,389.0	4,060.4	283.8	4,069.8	0.00	0.00	0.00
16,500.0	90.00	359.39	12,389.0	4,160.4	282.8	4,169.6	0.00	0.00	0.00
16,600.0	90.00	359.39	12,389.0	4,260.3	281.7	4,269.4	0.00	0.00	0.00
16,700.0	90.00	359.39	12,389.0	4,360.3	280.6	4,369.2	0.00	0.00	0.00
16,800.0	90.00	359.39	12,389.0	4,460.3	279.5	4,469.0	0.00	0.00	0.00
16,900.0	90.00	359.39	12,389.0	4,560.3	278.5	4,568.7	0.00	0.00	0.00
17,000.0	90.00	359.39	12,389.0	4,660.3	277.4	4,668.5	0.00	0.00	0.00
17,100.0	90.00	359.39	12,389.0	4,760.3	276.3	4,768.3	0.00	0.00	0.00
17,200.0	90.00	359.39	12,389.0	4,860.3	275.3	4,868.1	0.00	0.00	0.00
17,300.0	90.00	359.39	12,389.0	4,960.3	274.2	4,967.9	0.00	0.00	0.00
17,316.7	90.00	359.39	12,389.0	4,977.0	274.0	4,984.5	0.00	0.00	0.00

PBHL (Cobalt 32 State #707H)

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Site: Cobalt 32 State.
Well: #707H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25 @ 3449.0usft
MD Reference: KB = 25 @ 3449.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
KOP (Cobalt 32 State #7 - plan hits target center - Point	0.00	0.00	11,911.5	-148.0	329.0	425,468.00	800,074.00	32° 10' 0.935 N	103° 29' 49.782 W
PBHL (Cobalt 32 State #7 - plan hits target center - Point	0.00	0.01	12,389.0	4,977.0	274.0	430,593.00	800,019.00	32° 10' 51.651 N	103° 29' 49.959 W
FTP (Cobalt 32 State #7 - plan misses target center by 163.5usft at 12322.9usft MD (12269.0 TVD, 13.0 N, 327.3 E) - Point	0.00	0.00	12,389.0	-98.0	329.0	425,518.00	800,074.00	32° 10' 1.430 N	103° 29' 49.778 W