



Lea County, NM (NAD 83 NME)

Cobalt 32 State #702H

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: #702H

KB = 25 @ 3440.0usft
Northing 425895.00 Easting 803638.00 Latitude 32° 10' 4.854 N Longitude 103° 29' 8.283 W

SECTION DETAILS

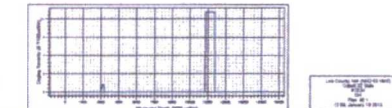
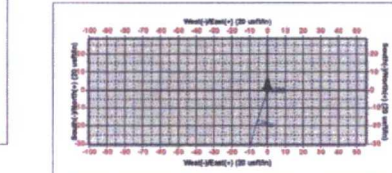
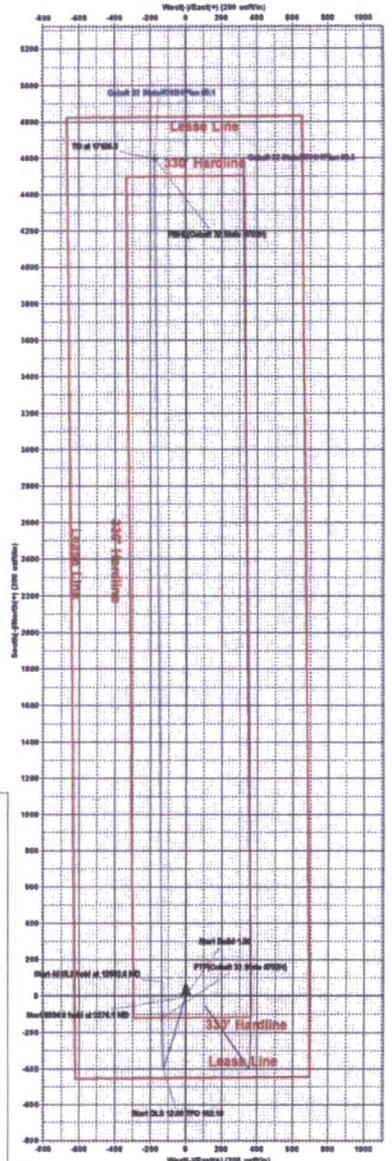
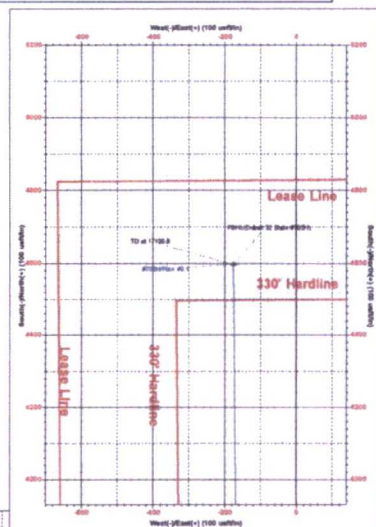
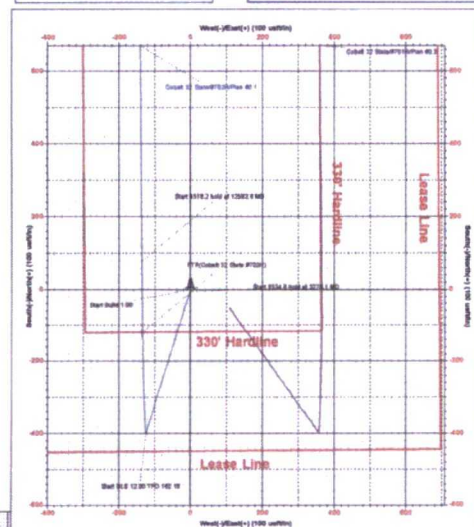
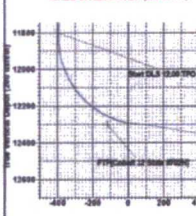
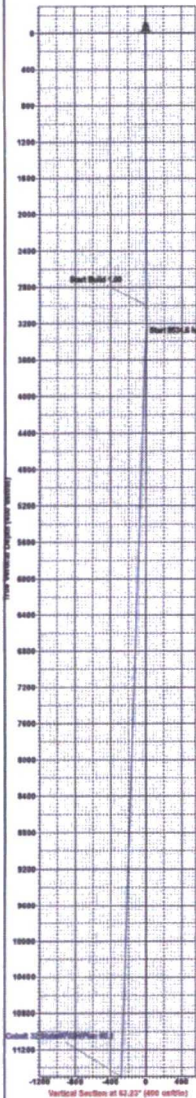
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	V Sect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3276.1	2.76	197.30	3276.0	-6.4	-2.0	1.00	197.30	-6.3	
4	11810.7	2.76	197.30	11800.7	-398.9	-124.2	0.00	0.00	-393.9	
5	12582.6	90.00	359.50	12300.0	78.0	-135.7	12.00	162.18	83.1	
6	17100.8	90.00	359.50	12300.0	4596.0	-175.0	0.00	0.00	4599.3	PBHL(Cobalt 32 State #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTPCobalt 32 State #702H	12300.0	-122.0	-134.0	425773.00	803604.00
PBHL(Cobalt 32 State #702H)	12300.0	4596.0	-175.0	430491.00	803483.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Cobalt 32 State

#702H

OH

Plan: Plan #0.1

Standard Planning Report

19 January, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3440.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3440.0usft
Site:	Cobalt 32 State	North Reference:	Grid
Well:	#702H	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	#702H		
Well Position	+N/-S	250.0 usft	Northing: 425,895.00 usft
	+E/-W	-53.0 usft	Easting: 803,638.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 10' 4.884 N
			Longitude: 103° 29' 8.283 W
			Ground Level: 3,415.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	12/7/2017	6.86
			Dip Angle (°)
			60.02
			Field Strength (nT)
			47,865.22843719

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)
	0.0	0.0	0.0
			Direction (°)
			357.82

Plan Survey Tool Program	Date 1/19/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	17,100.8 Plan #0.1 (OH)	MWD
			MWD - Standard
			Remarks

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	
3,276.1	2.76	197.30	3,276.0	-6.4	-2.0	1.00	1.00	0.00	197.30	
11,810.7	2.76	197.30	11,800.7	-398.9	-124.2	0.00	0.00	0.00	0.00	
12,582.6	90.00	359.50	12,300.0	78.0	-135.7	12.00	11.30	21.01	162.18	
17,100.8	90.00	359.50	12,300.0	4,596.0	-175.0	0.00	0.00	0.00	0.00	PBHL(Cobalt 32 State



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Cobalt 32 State
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3440.0usft
MD Reference: KB = 25 @ 3440.0usft
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	197.30	3,100.0	-0.8	-0.3	-0.8	1.00	1.00	0.00
3,200.0	2.00	197.30	3,200.0	-3.3	-1.0	-3.3	1.00	1.00	0.00
3,276.1	2.76	197.30	3,276.0	-6.4	-2.0	-6.3	1.00	1.00	0.00
3,300.0	2.76	197.30	3,299.9	-7.4	-2.3	-7.4	0.00	0.00	0.00
3,400.0	2.76	197.30	3,399.7	-12.0	-3.8	-11.9	0.00	0.00	0.00
3,500.0	2.76	197.30	3,499.6	-16.6	-5.2	-16.4	0.00	0.00	0.00
3,600.0	2.76	197.30	3,599.5	-21.2	-6.6	-21.0	0.00	0.00	0.00
3,700.0	2.76	197.30	3,699.4	-25.8	-8.0	-25.5	0.00	0.00	0.00
3,800.0	2.76	197.30	3,799.3	-30.4	-9.5	-30.1	0.00	0.00	0.00
3,900.0	2.76	197.30	3,899.2	-35.0	-10.9	-34.6	0.00	0.00	0.00
4,000.0	2.76	197.30	3,999.1	-39.6	-12.3	-39.1	0.00	0.00	0.00
4,100.0	2.76	197.30	4,098.9	-44.2	-13.8	-43.7	0.00	0.00	0.00
4,200.0	2.76	197.30	4,198.8	-48.8	-15.2	-48.2	0.00	0.00	0.00
4,300.0	2.76	197.30	4,298.7	-53.4	-16.6	-52.8	0.00	0.00	0.00
4,400.0	2.76	197.30	4,398.6	-58.0	-18.1	-57.3	0.00	0.00	0.00
4,500.0	2.76	197.30	4,498.5	-62.6	-19.5	-61.9	0.00	0.00	0.00
4,600.0	2.76	197.30	4,598.4	-67.2	-20.9	-66.4	0.00	0.00	0.00
4,700.0	2.76	197.30	4,698.2	-71.8	-22.4	-70.9	0.00	0.00	0.00
4,800.0	2.76	197.30	4,798.1	-76.4	-23.8	-75.5	0.00	0.00	0.00
4,900.0	2.76	197.30	4,898.0	-81.0	-25.2	-80.0	0.00	0.00	0.00
5,000.0	2.76	197.30	4,997.9	-85.6	-26.7	-84.6	0.00	0.00	0.00
5,100.0	2.76	197.30	5,097.8	-90.2	-28.1	-89.1	0.00	0.00	0.00
5,200.0	2.76	197.30	5,197.7	-94.8	-29.5	-93.6	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Cobalt 32 State
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3440.0usft
MD Reference: KB = 25 @ 3440.0usft
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	2.76	197.30	5,297.5	-99.4	-31.0	-98.2	0.00	0.00	0.00
5,400.0	2.76	197.30	5,397.4	-104.0	-32.4	-102.7	0.00	0.00	0.00
5,500.0	2.76	197.30	5,497.3	-108.6	-33.8	-107.3	0.00	0.00	0.00
5,600.0	2.76	197.30	5,597.2	-113.2	-35.3	-111.8	0.00	0.00	0.00
5,700.0	2.76	197.30	5,697.1	-117.8	-36.7	-116.4	0.00	0.00	0.00
5,800.0	2.76	197.30	5,797.0	-122.4	-38.1	-120.9	0.00	0.00	0.00
5,900.0	2.76	197.30	5,896.8	-127.0	-39.6	-125.4	0.00	0.00	0.00
6,000.0	2.76	197.30	5,996.7	-131.6	-41.0	-130.0	0.00	0.00	0.00
6,100.0	2.76	197.30	6,096.6	-136.2	-42.4	-134.5	0.00	0.00	0.00
6,200.0	2.76	197.30	6,196.5	-140.8	-43.9	-139.1	0.00	0.00	0.00
6,300.0	2.76	197.30	6,296.4	-145.4	-45.3	-143.6	0.00	0.00	0.00
6,400.0	2.76	197.30	6,396.3	-150.0	-46.7	-148.2	0.00	0.00	0.00
6,500.0	2.76	197.30	6,496.1	-154.6	-48.2	-152.7	0.00	0.00	0.00
6,600.0	2.76	197.30	6,596.0	-159.2	-49.6	-157.2	0.00	0.00	0.00
6,700.0	2.76	197.30	6,695.9	-163.8	-51.0	-161.8	0.00	0.00	0.00
6,800.0	2.76	197.30	6,795.8	-168.4	-52.5	-166.3	0.00	0.00	0.00
6,900.0	2.76	197.30	6,895.7	-173.0	-53.9	-170.9	0.00	0.00	0.00
7,000.0	2.76	197.30	6,995.6	-177.6	-55.3	-175.4	0.00	0.00	0.00
7,100.0	2.76	197.30	7,095.5	-182.2	-56.8	-179.9	0.00	0.00	0.00
7,200.0	2.76	197.30	7,195.3	-186.8	-58.2	-184.5	0.00	0.00	0.00
7,300.0	2.76	197.30	7,295.2	-191.4	-59.6	-189.0	0.00	0.00	0.00
7,400.0	2.76	197.30	7,395.1	-196.0	-61.1	-193.6	0.00	0.00	0.00
7,500.0	2.76	197.30	7,495.0	-200.6	-62.5	-198.1	0.00	0.00	0.00
7,600.0	2.76	197.30	7,594.9	-205.2	-63.9	-202.7	0.00	0.00	0.00
7,700.0	2.76	197.30	7,694.8	-209.8	-65.3	-207.2	0.00	0.00	0.00
7,800.0	2.76	197.30	7,794.6	-214.4	-66.8	-211.7	0.00	0.00	0.00
7,900.0	2.76	197.30	7,894.5	-219.0	-68.2	-216.3	0.00	0.00	0.00
8,000.0	2.76	197.30	7,994.4	-223.6	-69.6	-220.8	0.00	0.00	0.00
8,100.0	2.76	197.30	8,094.3	-228.2	-71.1	-225.4	0.00	0.00	0.00
8,200.0	2.76	197.30	8,194.2	-232.8	-72.5	-229.9	0.00	0.00	0.00
8,300.0	2.76	197.30	8,294.1	-237.4	-73.9	-234.4	0.00	0.00	0.00
8,400.0	2.76	197.30	8,393.9	-242.0	-75.4	-239.0	0.00	0.00	0.00
8,500.0	2.76	197.30	8,493.8	-246.6	-76.8	-243.5	0.00	0.00	0.00
8,600.0	2.76	197.30	8,593.7	-251.2	-78.2	-248.1	0.00	0.00	0.00
8,700.0	2.76	197.30	8,693.6	-255.8	-79.7	-252.6	0.00	0.00	0.00
8,800.0	2.76	197.30	8,793.5	-260.4	-81.1	-257.2	0.00	0.00	0.00
8,900.0	2.76	197.30	8,893.4	-265.0	-82.5	-261.7	0.00	0.00	0.00
9,000.0	2.76	197.30	8,993.2	-269.6	-84.0	-266.2	0.00	0.00	0.00
9,100.0	2.76	197.30	9,093.1	-274.2	-85.4	-270.8	0.00	0.00	0.00
9,200.0	2.76	197.30	9,193.0	-278.8	-86.8	-275.3	0.00	0.00	0.00
9,300.0	2.76	197.30	9,292.9	-283.4	-88.3	-279.9	0.00	0.00	0.00
9,400.0	2.76	197.30	9,392.8	-288.0	-89.7	-284.4	0.00	0.00	0.00
9,500.0	2.76	197.30	9,492.7	-292.6	-91.1	-288.9	0.00	0.00	0.00
9,600.0	2.76	197.30	9,592.6	-297.2	-92.6	-293.5	0.00	0.00	0.00
9,700.0	2.76	197.30	9,692.4	-301.8	-94.0	-298.0	0.00	0.00	0.00
9,800.0	2.76	197.30	9,792.3	-306.4	-95.4	-302.6	0.00	0.00	0.00
9,900.0	2.76	197.30	9,892.2	-311.0	-96.9	-307.1	0.00	0.00	0.00
10,000.0	2.76	197.30	9,992.1	-315.6	-98.3	-311.7	0.00	0.00	0.00
10,100.0	2.76	197.30	10,092.0	-320.2	-99.7	-316.2	0.00	0.00	0.00
10,200.0	2.76	197.30	10,191.9	-324.8	-101.2	-320.7	0.00	0.00	0.00
10,300.0	2.76	197.30	10,291.7	-329.4	-102.6	-325.3	0.00	0.00	0.00
10,400.0	2.76	197.30	10,391.6	-334.0	-104.0	-329.8	0.00	0.00	0.00
10,500.0	2.76	197.30	10,491.5	-338.6	-105.5	-334.4	0.00	0.00	0.00
10,600.0	2.76	197.30	10,591.4	-343.2	-106.9	-338.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Cobalt 32 State
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3440.0usft
MD Reference: KB = 25 @ 3440.0usft
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)
10,700.0	2.76	197.30	10,691.3	-347.8	-108.3	-343.4	0.00	0.00	0.00
10,800.0	2.76	197.30	10,791.2	-352.4	-109.8	-348.0	0.00	0.00	0.00
10,900.0	2.76	197.30	10,891.0	-357.0	-111.2	-352.5	0.00	0.00	0.00
11,000.0	2.76	197.30	10,990.9	-361.6	-112.6	-357.1	0.00	0.00	0.00
11,100.0	2.76	197.30	11,090.8	-366.2	-114.1	-361.6	0.00	0.00	0.00
11,200.0	2.76	197.30	11,190.7	-370.8	-115.5	-366.2	0.00	0.00	0.00
11,300.0	2.76	197.30	11,290.6	-375.4	-116.9	-370.7	0.00	0.00	0.00
11,400.0	2.76	197.30	11,390.5	-380.0	-118.3	-375.2	0.00	0.00	0.00
11,500.0	2.76	197.30	11,490.3	-384.6	-119.8	-379.8	0.00	0.00	0.00
11,600.0	2.76	197.30	11,590.2	-389.2	-121.2	-384.3	0.00	0.00	0.00
11,700.0	2.76	197.30	11,690.1	-393.8	-122.6	-388.9	0.00	0.00	0.00
11,800.0	2.76	197.30	11,790.0	-398.4	-124.1	-393.4	0.00	0.00	0.00
11,810.7	2.76	197.30	11,800.7	-398.9	-124.2	-393.9	0.00	0.00	0.00
11,825.0	1.24	222.25	11,815.0	-399.4	-124.4	-394.3	12.00	-10.61	174.53
11,850.0	2.25	337.47	11,840.0	-399.1	-124.8	-394.1	12.00	4.03	460.90
11,875.0	5.16	350.10	11,864.9	-397.5	-125.2	-392.5	12.00	11.62	50.50
11,900.0	8.13	353.58	11,889.7	-394.7	-125.6	-389.6	12.00	11.90	13.92
11,925.0	11.12	355.20	11,914.4	-390.5	-126.0	-385.4	12.00	11.95	6.48
11,950.0	14.11	356.14	11,938.8	-385.1	-126.4	-380.0	12.00	11.97	3.76
11,975.0	17.11	356.76	11,962.9	-378.4	-126.8	-373.3	12.00	11.98	2.47
12,000.0	20.10	357.19	11,986.5	-370.4	-127.2	-365.3	12.00	11.99	1.75
12,025.0	23.10	357.52	12,009.8	-361.2	-127.6	-356.1	12.00	11.99	1.31
12,050.0	26.10	357.78	12,032.5	-350.8	-128.1	-345.7	12.00	11.99	1.02
12,075.0	29.10	357.98	12,054.7	-339.2	-128.5	-334.1	12.00	11.99	0.83
12,100.0	32.10	358.16	12,076.2	-326.5	-128.9	-321.4	12.00	11.99	0.68
12,125.0	35.10	358.30	12,097.0	-312.7	-129.4	-307.5	12.00	12.00	0.58
12,150.0	38.09	358.42	12,117.1	-297.8	-129.8	-292.6	12.00	12.00	0.50
12,175.0	41.09	358.53	12,136.3	-281.9	-130.2	-276.7	12.00	12.00	0.44
12,200.0	44.09	358.63	12,154.7	-265.0	-130.6	-259.8	12.00	12.00	0.39
12,225.0	47.09	358.72	12,172.2	-247.1	-131.0	-241.9	12.00	12.00	0.35
12,250.0	50.09	358.80	12,188.8	-228.4	-131.4	-223.2	12.00	12.00	0.31
12,275.0	53.09	358.87	12,204.3	-208.8	-131.8	-203.6	12.00	12.00	0.29
12,300.0	56.09	358.93	12,218.8	-188.4	-132.2	-183.2	12.00	12.00	0.27
12,325.0	59.09	359.00	12,232.2	-167.3	-132.6	-162.1	12.00	12.00	0.25
12,350.0	62.09	359.05	12,244.5	-145.5	-133.0	-140.4	12.00	12.00	0.23
12,375.0	65.09	359.11	12,255.6	-123.1	-133.3	-118.0	12.00	12.00	0.22
12,393.7	67.34	359.15	12,263.1	-106.0	-133.6	-100.9	12.00	12.00	0.21
FTP(Cobalt 32 State #702H)									
12,400.0	68.09	359.16	12,265.5	-100.2	-133.7	-95.1	12.00	12.00	0.21
12,425.0	71.09	359.21	12,274.2	-76.8	-134.0	-71.6	12.00	12.00	0.20
12,450.0	74.09	359.26	12,281.7	-52.9	-134.3	-47.8	12.00	12.00	0.19
12,475.0	77.09	359.31	12,287.9	-28.7	-134.6	-23.6	12.00	12.00	0.19
12,500.0	80.09	359.35	12,292.9	-4.2	-134.9	0.9	12.00	12.00	0.18
12,525.0	83.09	359.40	12,296.5	20.5	-135.2	25.6	12.00	12.00	0.18
12,550.0	86.09	359.44	12,298.9	45.4	-135.4	50.5	12.00	12.00	0.18
12,575.0	89.09	359.49	12,299.9	70.4	-135.7	75.5	12.00	12.00	0.18
12,582.6	90.00	359.50	12,300.0	78.0	-135.7	83.1	12.00	12.00	0.18
12,600.0	90.00	359.50	12,300.0	95.4	-135.9	100.5	0.00	0.00	0.00
12,700.0	90.00	359.50	12,300.0	195.4	-136.8	200.4	0.00	0.00	0.00
12,800.0	90.00	359.50	12,300.0	295.3	-137.6	300.4	0.00	0.00	0.00
12,900.0	90.00	359.50	12,300.0	395.3	-138.5	400.3	0.00	0.00	0.00
13,000.0	90.00	359.50	12,300.0	495.3	-139.4	500.3	0.00	0.00	0.00
13,100.0	90.00	359.50	12,300.0	595.3	-140.2	600.2	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Cobalt 32 State
 Well: #702H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3440.0usft
 MD Reference: KB = 25 @ 3440.0usft
 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)
13,200.0	90.00	359.50	12,300.0	695.3	-141.1	700.2	0.00	0.00	0.00
13,300.0	90.00	359.50	12,300.0	795.3	-142.0	800.2	0.00	0.00	0.00
13,400.0	90.00	359.50	12,300.0	895.3	-142.8	900.1	0.00	0.00	0.00
13,500.0	90.00	359.50	12,300.0	995.3	-143.7	1,000.1	0.00	0.00	0.00
13,600.0	90.00	359.50	12,300.0	1,095.3	-144.6	1,100.0	0.00	0.00	0.00
13,700.0	90.00	359.50	12,300.0	1,195.3	-145.4	1,200.0	0.00	0.00	0.00
13,800.0	90.00	359.50	12,300.0	1,295.3	-146.3	1,299.9	0.00	0.00	0.00
13,900.0	90.00	359.50	12,300.0	1,395.3	-147.2	1,399.9	0.00	0.00	0.00
14,000.0	90.00	359.50	12,300.0	1,495.3	-148.1	1,499.9	0.00	0.00	0.00
14,100.0	90.00	359.50	12,300.0	1,595.3	-148.9	1,599.8	0.00	0.00	0.00
14,200.0	90.00	359.50	12,300.0	1,695.3	-149.8	1,699.8	0.00	0.00	0.00
14,300.0	90.00	359.50	12,300.0	1,795.3	-150.7	1,799.7	0.00	0.00	0.00
14,400.0	90.00	359.50	12,300.0	1,895.3	-151.5	1,899.7	0.00	0.00	0.00
14,500.0	90.00	359.50	12,300.0	1,995.3	-152.4	1,999.6	0.00	0.00	0.00
14,600.0	90.00	359.50	12,300.0	2,095.3	-153.3	2,099.6	0.00	0.00	0.00
14,700.0	90.00	359.50	12,300.0	2,195.3	-154.1	2,199.6	0.00	0.00	0.00
14,800.0	90.00	359.50	12,300.0	2,295.3	-155.0	2,299.5	0.00	0.00	0.00
14,900.0	90.00	359.50	12,300.0	2,395.3	-155.9	2,399.5	0.00	0.00	0.00
15,000.0	90.00	359.50	12,300.0	2,495.3	-156.7	2,499.4	0.00	0.00	0.00
15,100.0	90.00	359.50	12,300.0	2,595.3	-157.6	2,599.4	0.00	0.00	0.00
15,200.0	90.00	359.50	12,300.0	2,695.3	-158.5	2,699.3	0.00	0.00	0.00
15,300.0	90.00	359.50	12,300.0	2,795.3	-159.4	2,799.3	0.00	0.00	0.00
15,400.0	90.00	359.50	12,300.0	2,895.3	-160.2	2,899.3	0.00	0.00	0.00
15,500.0	90.00	359.50	12,300.0	2,995.2	-161.1	2,999.2	0.00	0.00	0.00
15,600.0	90.00	359.50	12,300.0	3,095.2	-162.0	3,099.2	0.00	0.00	0.00
15,700.0	90.00	359.50	12,300.0	3,195.2	-162.8	3,199.1	0.00	0.00	0.00
15,800.0	90.00	359.50	12,300.0	3,295.2	-163.7	3,299.1	0.00	0.00	0.00
15,900.0	90.00	359.50	12,300.0	3,395.2	-164.6	3,399.0	0.00	0.00	0.00
16,000.0	90.00	359.50	12,300.0	3,495.2	-165.4	3,499.0	0.00	0.00	0.00
16,100.0	90.00	359.50	12,300.0	3,595.2	-166.3	3,598.9	0.00	0.00	0.00
16,200.0	90.00	359.50	12,300.0	3,695.2	-167.2	3,698.9	0.00	0.00	0.00
16,300.0	90.00	359.50	12,300.0	3,795.2	-168.0	3,798.9	0.00	0.00	0.00
16,400.0	90.00	359.50	12,300.0	3,895.2	-168.9	3,898.8	0.00	0.00	0.00
16,500.0	90.00	359.50	12,300.0	3,995.2	-169.8	3,998.8	0.00	0.00	0.00
16,600.0	90.00	359.50	12,300.0	4,095.2	-170.6	4,098.7	0.00	0.00	0.00
16,700.0	90.00	359.50	12,300.0	4,195.2	-171.5	4,198.7	0.00	0.00	0.00
16,800.0	90.00	359.50	12,300.0	4,295.2	-172.4	4,298.6	0.00	0.00	0.00
16,900.0	90.00	359.50	12,300.0	4,395.2	-173.3	4,398.6	0.00	0.00	0.00
17,000.0	90.00	359.50	12,300.0	4,495.2	-174.1	4,498.6	0.00	0.00	0.00
17,100.8	90.00	359.50	12,300.0	4,596.0	-175.0	4,599.3	0.00	0.00	0.00

PBHL(Cobalt 32 State #702H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Cobalt 32 State
Well: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3440.0usft
MD Reference: KB = 25 @ 3440.0usft
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
FTP(Cobalt 32 State #7) - plan misses target center by 40.2usft at 12393.7usft MD (12263.1 TVD, -106.0 N, -133.6 E) - Point	0.00	0.00	12,300.0	-122.0	-134.0	425,773.00	803,504.00	32° 10' 3.687 N	103° 29' 9.853 W
PBHL(Cobalt 32 State #) - plan hits target center - Point	0.00	0.00	12,300.0	4,596.0	-175.0	430,491.00	803,463.00	32° 10' 50.375 N	103° 29' 9.897 W