eog resources

Lea County, NM (NAD 83 NME)

Cobalt 32 State #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

Azimuths to Grid North
True North: -0.45°
Magnetic North: 8.34°

Magnetic Field
Strength: 47791.4snT
Dip Angle: 60.01°
Date: 8/21/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.34°
To convert a Magnetic Direction to a True Direction, Add 8.79° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

WELL DETAILS: #705H

3422.0
KB = 25 @ 3447.0usft

Northing	Easting	Latitude	Longitude
425622.00	800774.00	32° 10' 2.416 N	103° 29' 41.625 W

SECTION DETAILS

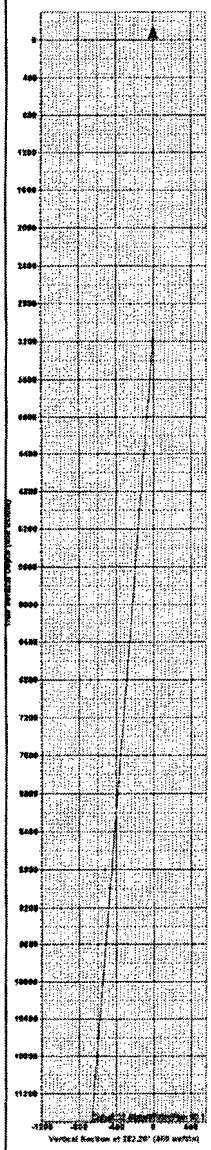
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3226.9	4.54	102.26	3226.6	-1.9	8.8	2.00	102.26	-0.6	
4	11692.6	4.54	102.26	11665.8	-144.1	663.2	0.00	0.00	-61.5	
5	11919.5	0.00	0.00	11692.5	-146.0	672.0	2.00	180.00	-62.3	KOP (Cobalt 32 State #705H)
6	12869.5	90.00	359.39	12370.0	331.4	666.8	12.00	359.39	410.9	
7	17320.3	90.00	359.39	12370.0	4982.0	617.0	0.00	0.00	5020.1	PBHL (Cobalt 32 State #705H)

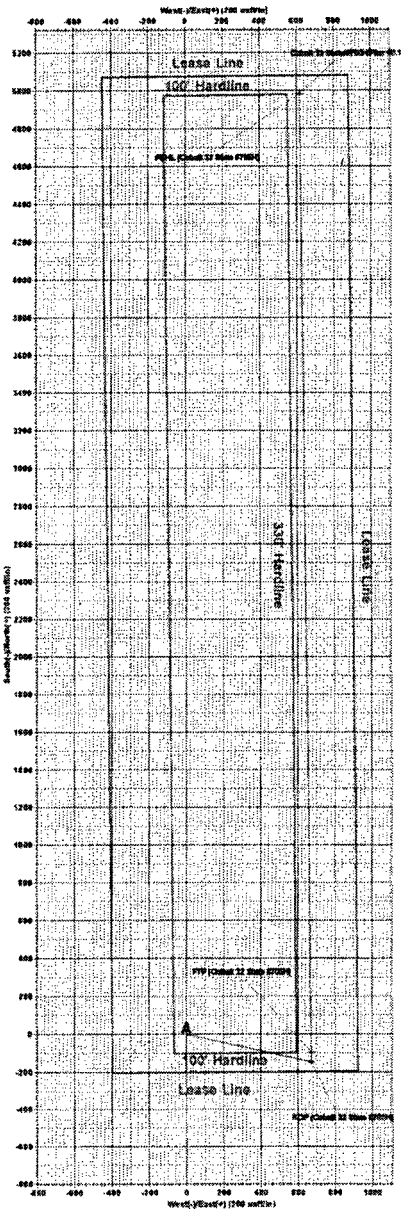
CASING DETAILS

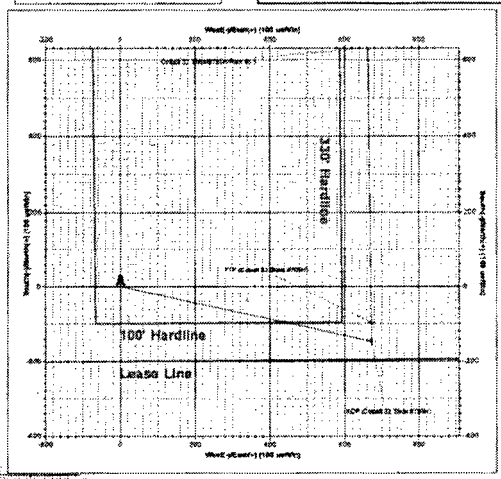
No casing data is available

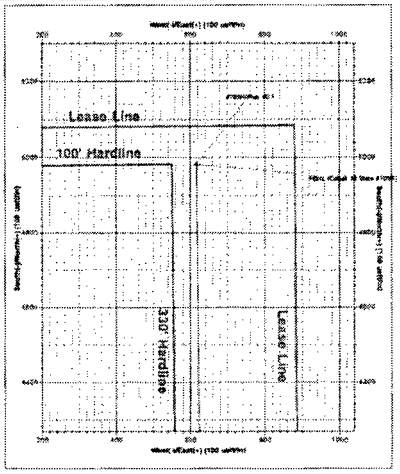
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

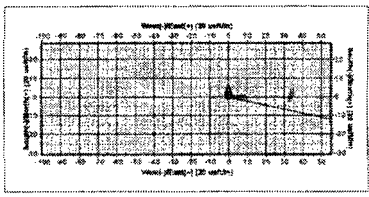
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Cobalt 32 State #705H)	11692.5	-146.0	672.0	425477.00	801446.00
FTP (Cobalt 32 State #705H)	12370.0	-66.0	672.0	425557.00	801446.00
PBHL (Cobalt 32 State #705H)	12370.0	4982.0	617.0	430606.00	801391.00

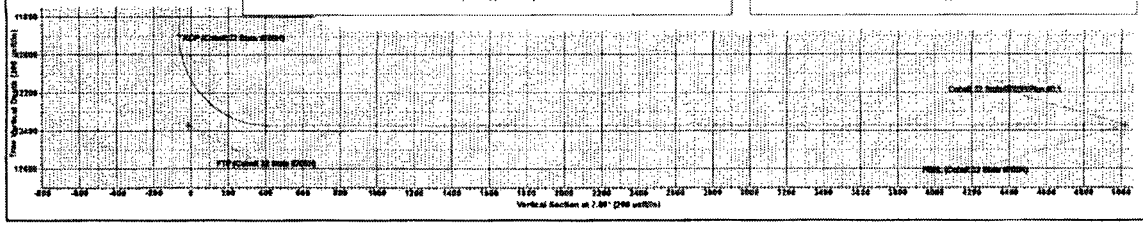












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Cobalt 32 State
#705H

OH

Plan: Plan #0.1

Standard Planning Report

21 August, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3447.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3447.0usft
Site:	Cobalt 32 State	**North Reference:**	Grid
Well:	#705H	**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	**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	#705H					
Well Position	**+N/-S**	-22.0 usft	**Northing:**	425,623.00 usft	**Latitude:**	32° 10' 2.415 N
	+E/-W	-2,917.0 usft	**Easting:**	800,774.00 usft	**Longitude:**	103° 29' 41.625 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,422.0 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	8/21/2018	6.79	60.01	47,791.39403215

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	7.06	

Plan Survey Tool Program **Date** 8/21/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,320.3	Plan #0.1 (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	
3,226.9	4.54	102.26	3,226.6	-1.9	8.8	2.00	2.00	0.00	102.26	
11,692.6	4.54	102.26	11,665.9	-144.1	663.2	0.00	0.00	0.00	0.00	
11,919.5	0.00	0.00	11,892.5	-146.0	672.0	2.00	-2.00	0.00	180.00	KOP (Cobalt 32 State
12,669.5	90.00	359.39	12,370.0	331.4	666.9	12.00	12.00	-0.08	359.39	
17,320.3	90.00	359.39	12,370.0	4,982.0	617.0	0.00	0.00	0.00	0.00	PBHL (Cobalt 32 Stat

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3447.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3447.0usft
Site:	Cobalt 32 State	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	102.26	3,100.0	-0.4	1.7	-0.2	2.00	2.00	0.00
3,200.0	4.00	102.26	3,199.8	-1.5	6.8	-0.6	2.00	2.00	0.00
3,226.9	4.54	102.26	3,226.6	-1.9	8.8	-0.8	2.00	2.00	0.00
3,300.0	4.54	102.26	3,299.5	-3.1	14.4	-1.3	0.00	0.00	0.00
3,400.0	4.54	102.26	3,399.2	-4.8	22.2	-2.1	0.00	0.00	0.00
3,500.0	4.54	102.26	3,498.9	-6.5	29.9	-2.8	0.00	0.00	0.00
3,600.0	4.54	102.26	3,598.6	-8.2	37.6	-3.5	0.00	0.00	0.00
3,700.0	4.54	102.26	3,698.3	-9.9	45.3	-4.2	0.00	0.00	0.00
3,800.0	4.54	102.26	3,798.0	-11.5	53.1	-4.9	0.00	0.00	0.00
3,900.0	4.54	102.26	3,897.7	-13.2	60.8	-5.6	0.00	0.00	0.00
4,000.0	4.54	102.26	3,997.3	-14.9	68.5	-6.4	0.00	0.00	0.00
4,100.0	4.54	102.26	4,097.0	-16.6	76.3	-7.1	0.00	0.00	0.00
4,200.0	4.54	102.26	4,196.7	-18.3	84.0	-7.8	0.00	0.00	0.00
4,300.0	4.54	102.26	4,296.4	-19.9	91.7	-8.5	0.00	0.00	0.00
4,400.0	4.54	102.26	4,396.1	-21.6	99.5	-9.2	0.00	0.00	0.00
4,500.0	4.54	102.26	4,495.8	-23.3	107.2	-9.9	0.00	0.00	0.00
4,600.0	4.54	102.26	4,595.5	-25.0	114.9	-10.7	0.00	0.00	0.00
4,700.0	4.54	102.26	4,695.1	-26.6	122.7	-11.4	0.00	0.00	0.00
4,800.0	4.54	102.26	4,794.8	-28.3	130.4	-12.1	0.00	0.00	0.00
4,900.0	4.54	102.26	4,894.5	-30.0	138.1	-12.8	0.00	0.00	0.00
5,000.0	4.54	102.26	4,994.2	-31.7	145.8	-13.5	0.00	0.00	0.00
5,100.0	4.54	102.26	5,093.9	-33.4	153.6	-14.2	0.00	0.00	0.00
5,200.0	4.54	102.26	5,193.6	-35.0	161.3	-15.0	0.00	0.00	0.00

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Site:	Cobalt 32 State	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	4.54	102.26	5,293.3	-36.7	169.0	-15.7	0.00	0.00	0.00
5,400.0	4.54	102.26	5,393.0	-38.4	176.8	-16.4	0.00	0.00	0.00
5,500.0	4.54	102.26	5,492.6	-40.1	184.5	-17.1	0.00	0.00	0.00
5,600.0	4.54	102.26	5,592.3	-41.8	192.2	-17.8	0.00	0.00	0.00
5,700.0	4.54	102.26	5,692.0	-43.4	200.0	-18.5	0.00	0.00	0.00
5,800.0	4.54	102.26	5,791.7	-45.1	207.7	-19.3	0.00	0.00	0.00
5,900.0	4.54	102.26	5,891.4	-46.8	215.4	-20.0	0.00	0.00	0.00
6,000.0	4.54	102.26	5,991.1	-48.5	223.2	-20.7	0.00	0.00	0.00
6,100.0	4.54	102.26	6,090.8	-50.2	230.9	-21.4	0.00	0.00	0.00
6,200.0	4.54	102.26	6,190.4	-51.8	238.6	-22.1	0.00	0.00	0.00
6,300.0	4.54	102.26	6,290.1	-53.5	246.3	-22.8	0.00	0.00	0.00
6,400.0	4.54	102.26	6,389.8	-55.2	254.1	-23.6	0.00	0.00	0.00
6,500.0	4.54	102.26	6,489.5	-56.9	261.8	-24.3	0.00	0.00	0.00
6,600.0	4.54	102.26	6,589.2	-58.6	269.5	-25.0	0.00	0.00	0.00
6,700.0	4.54	102.26	6,688.9	-60.2	277.3	-25.7	0.00	0.00	0.00
6,800.0	4.54	102.26	6,788.6	-61.9	285.0	-26.4	0.00	0.00	0.00
6,900.0	4.54	102.26	6,888.3	-63.6	292.7	-27.1	0.00	0.00	0.00
7,000.0	4.54	102.26	6,987.9	-65.3	300.5	-27.9	0.00	0.00	0.00
7,100.0	4.54	102.26	7,087.6	-67.0	308.2	-28.6	0.00	0.00	0.00
7,200.0	4.54	102.26	7,187.3	-68.6	315.9	-29.3	0.00	0.00	0.00
7,300.0	4.54	102.26	7,287.0	-70.3	323.7	-30.0	0.00	0.00	0.00
7,400.0	4.54	102.26	7,386.7	-72.0	331.4	-30.7	0.00	0.00	0.00
7,500.0	4.54	102.26	7,486.4	-73.7	339.1	-31.4	0.00	0.00	0.00
7,600.0	4.54	102.26	7,586.1	-75.4	346.8	-32.2	0.00	0.00	0.00
7,700.0	4.54	102.26	7,685.7	-77.0	354.6	-32.9	0.00	0.00	0.00
7,800.0	4.54	102.26	7,785.4	-78.7	362.3	-33.6	0.00	0.00	0.00
7,900.0	4.54	102.26	7,885.1	-80.4	370.0	-34.3	0.00	0.00	0.00
8,000.0	4.54	102.26	7,984.8	-82.1	377.8	-35.0	0.00	0.00	0.00
8,100.0	4.54	102.26	8,084.5	-83.8	385.5	-35.7	0.00	0.00	0.00
8,200.0	4.54	102.26	8,184.2	-85.4	393.2	-36.5	0.00	0.00	0.00
8,300.0	4.54	102.26	8,283.9	-87.1	401.0	-37.2	0.00	0.00	0.00
8,400.0	4.54	102.26	8,383.5	-88.8	408.7	-37.9	0.00	0.00	0.00
8,500.0	4.54	102.26	8,483.2	-90.5	416.4	-38.6	0.00	0.00	0.00
8,600.0	4.54	102.26	8,582.9	-92.2	424.1	-39.3	0.00	0.00	0.00
8,700.0	4.54	102.26	8,682.6	-93.8	431.9	-40.0	0.00	0.00	0.00
8,800.0	4.54	102.26	8,782.3	-95.5	439.6	-40.8	0.00	0.00	0.00
8,900.0	4.54	102.26	8,882.0	-97.2	447.3	-41.5	0.00	0.00	0.00
9,000.0	4.54	102.26	8,981.7	-98.9	455.1	-42.2	0.00	0.00	0.00
9,100.0	4.54	102.26	9,081.4	-100.5	462.8	-42.9	0.00	0.00	0.00
9,200.0	4.54	102.26	9,181.0	-102.2	470.5	-43.6	0.00	0.00	0.00
9,300.0	4.54	102.26	9,280.7	-103.9	478.3	-44.3	0.00	0.00	0.00
9,400.0	4.54	102.26	9,380.4	-105.6	486.0	-45.1	0.00	0.00	0.00
9,500.0	4.54	102.26	9,480.1	-107.3	493.7	-45.8	0.00	0.00	0.00
9,600.0	4.54	102.26	9,579.8	-108.9	501.5	-46.5	0.00	0.00	0.00
9,700.0	4.54	102.26	9,679.5	-110.6	509.2	-47.2	0.00	0.00	0.00
9,800.0	4.54	102.26	9,779.2	-112.3	516.9	-47.9	0.00	0.00	0.00
9,900.0	4.54	102.26	9,878.8	-114.0	524.6	-48.6	0.00	0.00	0.00
10,000.0	4.54	102.26	9,978.5	-115.7	532.4	-49.4	0.00	0.00	0.00
10,100.0	4.54	102.26	10,078.2	-117.3	540.1	-50.1	0.00	0.00	0.00
10,200.0	4.54	102.26	10,177.9	-119.0	547.8	-50.8	0.00	0.00	0.00
10,300.0	4.54	102.26	10,277.6	-120.7	555.6	-51.5	0.00	0.00	0.00
10,400.0	4.54	102.26	10,377.3	-122.4	563.3	-52.2	0.00	0.00	0.00
10,500.0	4.54	102.26	10,477.0	-124.1	571.0	-52.9	0.00	0.00	0.00
10,600.0	4.54	102.26	10,576.7	-125.7	578.8	-53.7	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3447.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3447.0usft
Site:	Cobalt 32 State	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	4.54	102.26	10,676.3	-127.4	586.5	-54.4	0.00	0.00	0.00
10,800.0	4.54	102.26	10,776.0	-129.1	594.2	-55.1	0.00	0.00	0.00
10,900.0	4.54	102.26	10,875.7	-130.8	602.0	-55.8	0.00	0.00	0.00
11,000.0	4.54	102.26	10,975.4	-132.5	609.7	-56.5	0.00	0.00	0.00
11,100.0	4.54	102.26	11,075.1	-134.1	617.4	-57.2	0.00	0.00	0.00
11,200.0	4.54	102.26	11,174.8	-135.8	625.1	-58.0	0.00	0.00	0.00
11,300.0	4.54	102.26	11,274.5	-137.5	632.9	-58.7	0.00	0.00	0.00
11,400.0	4.54	102.26	11,374.1	-139.2	640.6	-59.4	0.00	0.00	0.00
11,500.0	4.54	102.26	11,473.8	-140.9	648.3	-60.1	0.00	0.00	0.00
11,600.0	4.54	102.26	11,573.5	-142.5	656.1	-60.8	0.00	0.00	0.00
11,692.6	4.54	102.26	11,665.9	-144.1	663.2	-61.5	0.00	0.00	0.00
11,700.0	4.39	102.26	11,673.2	-144.2	663.8	-61.5	2.00	-2.00	0.00
11,800.0	2.39	102.26	11,773.0	-145.5	669.6	-62.1	2.00	-2.00	0.00
11,900.0	0.39	102.26	11,873.0	-146.0	671.9	-62.3	2.00	-2.00	0.00
11,919.5	0.00	0.00	11,892.5	-146.0	672.0	-62.3	2.00	-2.00	0.00
KOP (Cobalt 32 State #705H)									
11,925.0	0.66	359.39	11,898.0	-146.0	672.0	-62.3	12.00	12.00	0.00
11,950.0	3.66	359.39	11,923.0	-145.0	672.0	-61.3	12.00	12.00	0.00
11,975.0	6.66	359.39	11,947.9	-142.8	672.0	-59.1	12.00	12.00	0.00
12,000.0	9.66	359.39	11,972.6	-139.2	671.9	-55.6	12.00	12.00	0.00
12,025.0	12.66	359.39	11,997.1	-134.4	671.9	-50.8	12.00	12.00	0.00
12,050.0	15.66	359.39	12,021.4	-128.3	671.8	-44.7	12.00	12.00	0.00
12,075.0	18.66	359.39	12,045.3	-120.9	671.7	-37.4	12.00	12.00	0.00
12,100.0	21.66	359.39	12,068.7	-112.3	671.6	-28.9	12.00	12.00	0.00
12,125.0	24.66	359.39	12,091.7	-102.5	671.5	-19.1	12.00	12.00	0.00
12,150.0	27.66	359.39	12,114.1	-91.4	671.4	-8.2	12.00	12.00	0.00
12,175.0	30.66	359.39	12,136.0	-79.3	671.3	3.8	12.00	12.00	0.00
12,200.0	33.66	359.39	12,157.1	-66.0	671.1	17.0	12.00	12.00	0.00
12,225.0	36.66	359.39	12,177.6	-51.6	671.0	31.3	12.00	12.00	0.00
12,250.0	39.66	359.39	12,197.2	-36.1	670.8	46.6	12.00	12.00	0.00
12,275.0	42.66	359.39	12,216.0	-19.7	670.6	62.9	12.00	12.00	0.00
12,300.0	45.66	359.39	12,234.0	-2.3	670.5	80.2	12.00	12.00	0.00
12,323.7	48.51	359.39	12,250.1	15.1	670.3	97.4	12.00	12.00	0.00
FTP (Cobalt 32 State #705H)									
12,325.0	48.66	359.39	12,251.0	16.1	670.3	98.3	12.00	12.00	0.00
12,350.0	51.66	359.39	12,267.0	35.3	670.1	117.4	12.00	12.00	0.00
12,375.0	54.66	359.39	12,282.0	55.3	669.8	137.2	12.00	12.00	0.00
12,400.0	57.66	359.39	12,295.9	76.0	669.6	157.8	12.00	12.00	0.00
12,425.0	60.66	359.39	12,308.7	97.5	669.4	179.0	12.00	12.00	0.00
12,450.0	63.66	359.39	12,320.4	119.6	669.2	200.9	12.00	12.00	0.00
12,475.0	66.66	359.39	12,330.9	142.3	668.9	223.4	12.00	12.00	0.00
12,500.0	69.66	359.39	12,340.2	165.5	668.7	246.4	12.00	12.00	0.00
12,525.0	72.66	359.39	12,348.3	189.1	668.4	269.9	12.00	12.00	0.00
12,550.0	75.66	359.39	12,355.1	213.2	668.1	293.7	12.00	12.00	0.00
12,575.0	78.66	359.39	12,360.6	237.6	667.9	317.8	12.00	12.00	0.00
12,600.0	81.66	359.39	12,364.9	262.2	667.6	342.2	12.00	12.00	0.00
12,625.0	84.66	359.39	12,367.9	287.0	667.4	366.8	12.00	12.00	0.00
12,650.0	87.66	359.39	12,369.6	311.9	667.1	391.6	12.00	12.00	0.00
12,669.5	90.00	359.39	12,370.0	331.4	666.9	410.9	12.00	12.00	0.00
12,700.0	90.00	359.39	12,370.0	361.9	666.6	441.1	0.00	0.00	0.00
12,800.0	90.00	359.39	12,370.0	461.9	665.5	540.2	0.00	0.00	0.00
12,900.0	90.00	359.39	12,370.0	561.9	664.4	639.3	0.00	0.00	0.00
13,000.0	90.00	359.39	12,370.0	661.9	663.3	738.4	0.00	0.00	0.00
13,100.0	90.00	359.39	12,370.0	761.9	662.3	837.5	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3447.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3447.0usft
Site:	Cobalt 32 State	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	359.39	12,370.0	861.9	661.2	936.6	0.00	0.00	0.00
13,300.0	90.00	359.39	12,370.0	961.9	660.1	1,035.7	0.00	0.00	0.00
13,400.0	90.00	359.39	12,370.0	1,061.9	659.0	1,134.8	0.00	0.00	0.00
13,500.0	90.00	359.39	12,370.0	1,161.9	658.0	1,233.9	0.00	0.00	0.00
13,600.0	90.00	359.39	12,370.0	1,261.9	656.9	1,333.0	0.00	0.00	0.00
13,700.0	90.00	359.39	12,370.0	1,361.9	655.8	1,432.2	0.00	0.00	0.00
13,800.0	90.00	359.39	12,370.0	1,461.9	654.8	1,531.3	0.00	0.00	0.00
13,900.0	90.00	359.39	12,370.0	1,561.9	653.7	1,630.4	0.00	0.00	0.00
14,000.0	90.00	359.39	12,370.0	1,661.9	652.6	1,729.5	0.00	0.00	0.00
14,100.0	90.00	359.39	12,370.0	1,761.8	651.5	1,828.6	0.00	0.00	0.00
14,200.0	90.00	359.39	12,370.0	1,861.8	650.5	1,927.7	0.00	0.00	0.00
14,300.0	90.00	359.39	12,370.0	1,961.8	649.4	2,026.8	0.00	0.00	0.00
14,400.0	90.00	359.39	12,370.0	2,061.8	648.3	2,125.9	0.00	0.00	0.00
14,500.0	90.00	359.39	12,370.0	2,161.8	647.2	2,225.0	0.00	0.00	0.00
14,600.0	90.00	359.39	12,370.0	2,261.8	646.2	2,324.1	0.00	0.00	0.00
14,700.0	90.00	359.39	12,370.0	2,361.8	645.1	2,423.2	0.00	0.00	0.00
14,800.0	90.00	359.39	12,370.0	2,461.8	644.0	2,522.3	0.00	0.00	0.00
14,900.0	90.00	359.39	12,370.0	2,561.8	643.0	2,621.4	0.00	0.00	0.00
15,000.0	90.00	359.39	12,370.0	2,661.8	641.9	2,720.5	0.00	0.00	0.00
15,100.0	90.00	359.39	12,370.0	2,761.8	640.8	2,819.6	0.00	0.00	0.00
15,200.0	90.00	359.39	12,370.0	2,861.8	639.7	2,918.7	0.00	0.00	0.00
15,300.0	90.00	359.39	12,370.0	2,961.8	638.7	3,017.8	0.00	0.00	0.00
15,400.0	90.00	359.39	12,370.0	3,061.8	637.6	3,116.9	0.00	0.00	0.00
15,500.0	90.00	359.39	12,370.0	3,161.8	636.5	3,216.0	0.00	0.00	0.00
15,600.0	90.00	359.39	12,370.0	3,261.8	635.5	3,315.1	0.00	0.00	0.00
15,700.0	90.00	359.39	12,370.0	3,361.8	634.4	3,414.2	0.00	0.00	0.00
15,800.0	90.00	359.39	12,370.0	3,461.8	633.3	3,513.3	0.00	0.00	0.00
15,900.0	90.00	359.39	12,370.0	3,561.7	632.2	3,612.4	0.00	0.00	0.00
16,000.0	90.00	359.39	12,370.0	3,661.7	631.2	3,711.6	0.00	0.00	0.00
16,100.0	90.00	359.39	12,370.0	3,761.7	630.1	3,810.7	0.00	0.00	0.00
16,200.0	90.00	359.39	12,370.0	3,861.7	629.0	3,909.8	0.00	0.00	0.00
16,300.0	90.00	359.39	12,370.0	3,961.7	627.9	4,008.9	0.00	0.00	0.00
16,400.0	90.00	359.39	12,370.0	4,061.7	626.9	4,108.0	0.00	0.00	0.00
16,500.0	90.00	359.39	12,370.0	4,161.7	625.8	4,207.1	0.00	0.00	0.00
16,600.0	90.00	359.39	12,370.0	4,261.7	624.7	4,306.2	0.00	0.00	0.00
16,700.0	90.00	359.39	12,370.0	4,361.7	623.7	4,405.3	0.00	0.00	0.00
16,800.0	90.00	359.39	12,370.0	4,461.7	622.6	4,504.4	0.00	0.00	0.00
16,900.0	90.00	359.39	12,370.0	4,561.7	621.5	4,603.5	0.00	0.00	0.00
17,000.0	90.00	359.39	12,370.0	4,661.7	620.4	4,702.6	0.00	0.00	0.00
17,100.0	90.00	359.39	12,370.0	4,761.7	619.4	4,801.7	0.00	0.00	0.00
17,200.0	90.00	359.39	12,370.0	4,861.7	618.3	4,900.8	0.00	0.00	0.00
17,300.0	90.00	359.39	12,370.0	4,961.7	617.2	4,999.9	0.00	0.00	0.00
17,320.3	90.00	359.39	12,370.0	4,982.0	617.0	5,020.1	0.00	0.00	0.00
PBHL (Cobalt 32 State #705H)									

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3447.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3447.0usft
Site:	Cobalt 32 State	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	11,892.5	-146.0	672.0	425,477.00	801,446.00	32° 10' 0.918 N	103° 29' 33.821 W
FTP (Cobalt 32 State #7 - plan misses target center by 163.5usft at 12323.7usft MD (12250.1 TVD, 15.1 N, 670.3 E) - Point	0.00	0.00	12,370.0	-96.0	672.0	425,527.00	801,446.00	32° 10' 1.413 N	103° 29' 33.816 W
PBHL (Cobalt 32 State # - plan hits target center - Point	0.00	0.00	12,370.0	4,982.0	617.0	430,605.00	801,391.00	32° 10' 51.664 N	103° 29' 33.995 W