

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43875		² Pool Code 98094	³ Pool Name Bobcat Draw; Upper Wolfcamp
⁴ Property Code 38481	⁵ Property Name CABALLO 23 FED COM		⁶ Well Number #701H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3342'

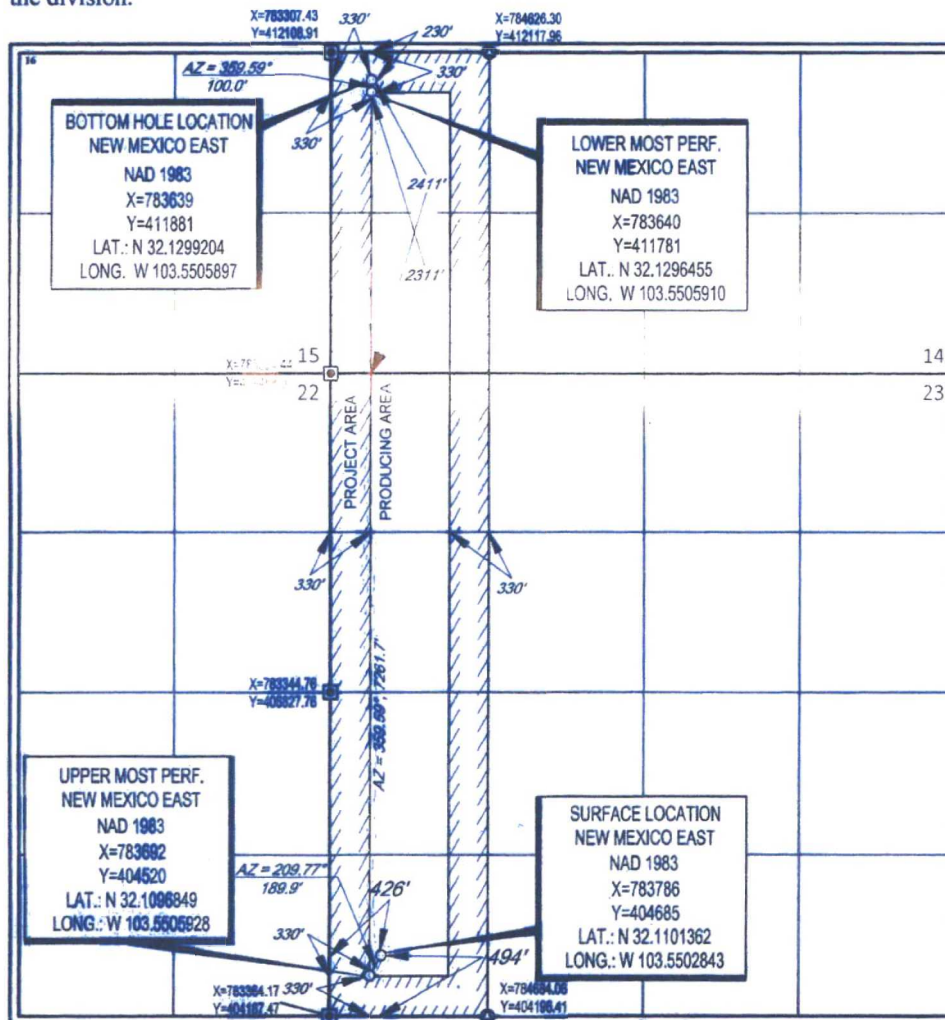
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	25-S	33-E	-	494'	SOUTH	426'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	14	25-S	33-E	-	2411'	SOUTH	330'	WEST	LEA

¹³ Dedicated Acres 240.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location, or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Stan Wagner* Date: 3/7/18

Printed Name: Stan Wagner

E-mail Address:

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

Date of Survey: 03/26/2017
Signature and Seal of Surveyor: *[Signature]*
Certificate Number: 18529

Revised Permit Information 3/2/18:

Well Name: Caballo 23 Fed Com No. 701H

Location:

SL: 494' FSL & 426' FWL, Section 23, T-25-S, R-33-E, Lea Co., N.M.

BHL: 2411' FSL & 330' FWL, Section 14, T-25-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1,150'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 4,900'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 - 11,300'	7.625"	29.7#	HCP110	FXL	1.125	1.25	1.60
6.75"	0 - 10,800'	5.5"	20#	P110EC	DWC CIS MS	1.125	1.25	1.60
6.75"	0' - 19,779'	5.5"	20#	P110EC	VAM SFC	1.125	1.25	1.60

Variance is requested for annular clearance of the 5-1/2" x 7-5/8" to the top of cement.

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1,150'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ Surface)
	333	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
4,900'	692	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,300'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,400')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
19,779'	1000	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,800')

Mud Program:

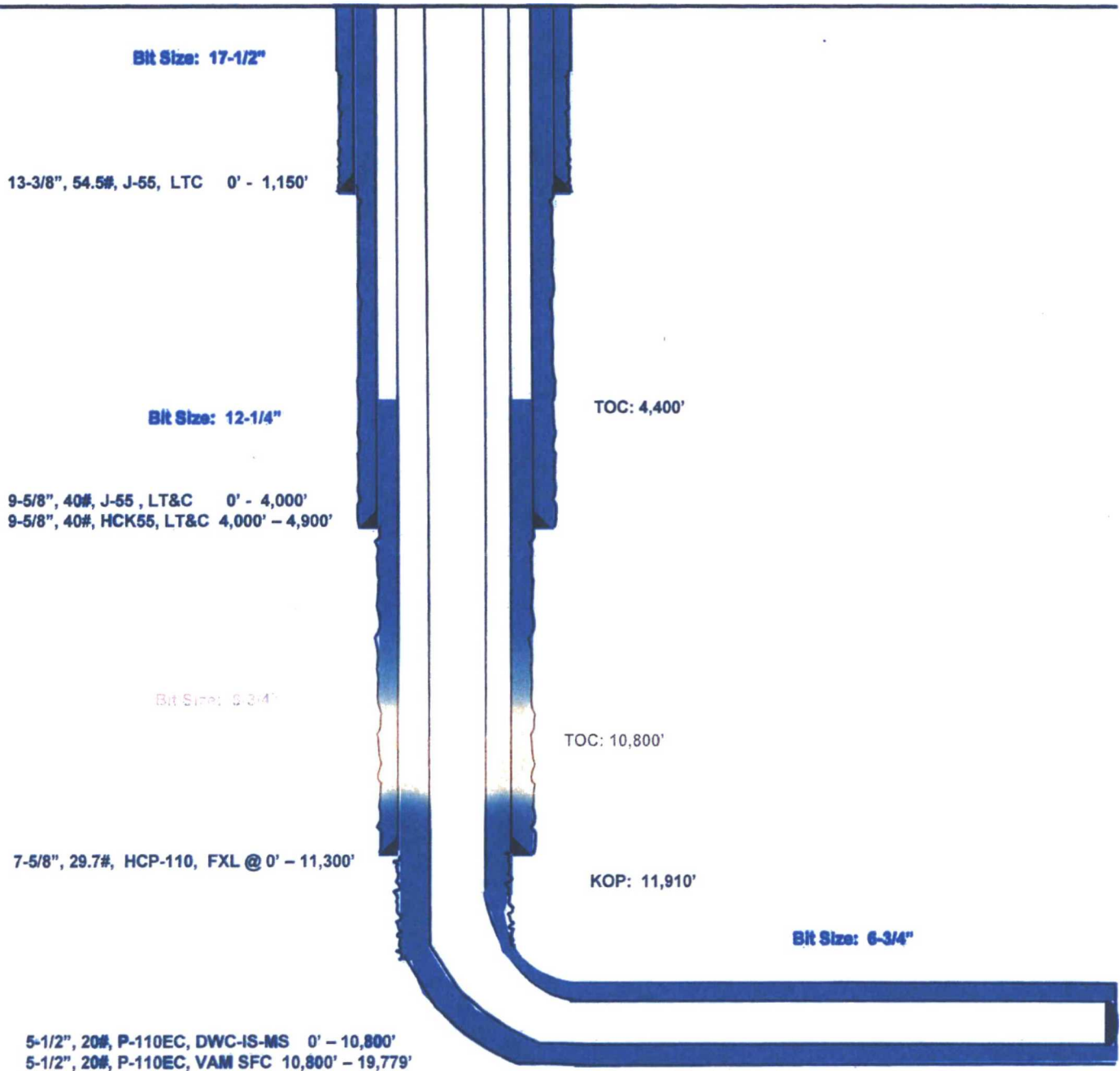
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' - 4,900'	Brine	10.0-10.2	28-34	N/c
4,900' - 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' - 19,779' . Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Caballo 23 Fed Com #701H
Lea County, New Mexico

494' FSL
426' FWL
Section 23
T-25-S, R-33-E

Proposed Wellbore
Revised 3/2/18
API: 30-025-43875

KB: 3,367'
GL: 3,342'



Lateral: 19,779' MD, 12,402' TVD
Upper Most Perf:
330' FSL & 330' FWL Sec. 23
Lower Most Perf:
2311' FSL & 330' FWL Sec. 14
BH Location: 2411' FSL & 330' FWL
Section 14
T-25-S, R-33-E



Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com #701H

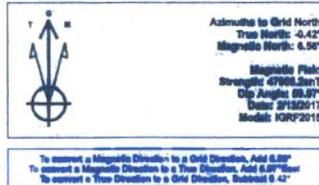
Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Elevation: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #701H

Ground Level: 3342.0
KB = 25' @ 3357.0' East
Northing: 404885.00 Easting: 783786.50 Latitude: 32° 0' 36.404 N Longitude: 103° 33' 1.024 W



SECTION DETAILS

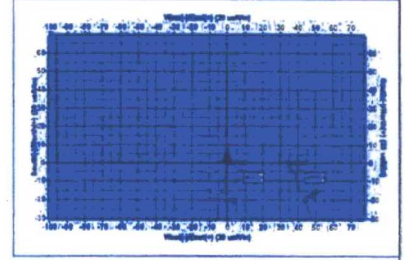
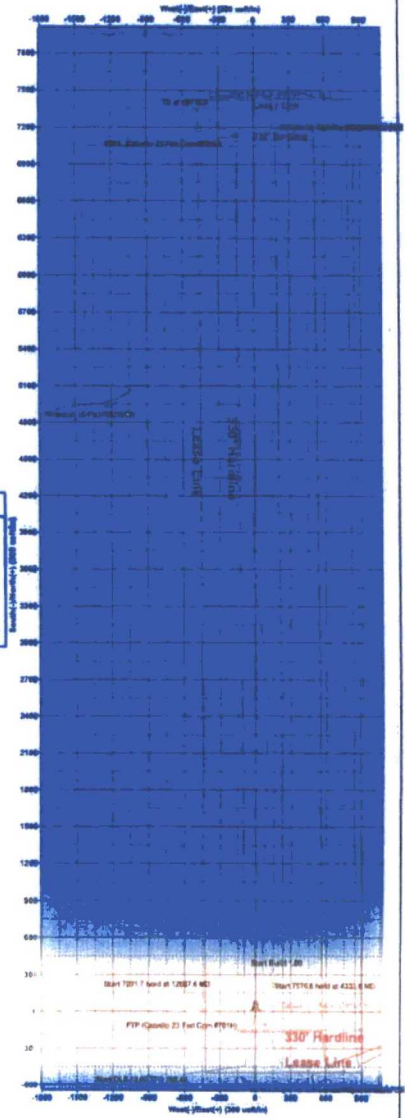
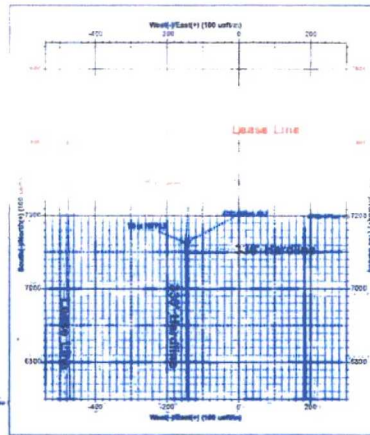
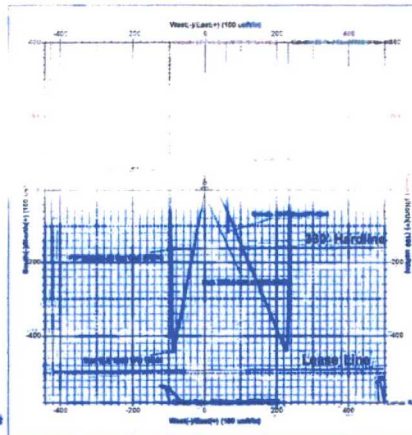
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4333.6	3.34	191.13	4333.4	-0.5	-1.9	1.00	191.13	-0.5	
4	11910.4	3.34	191.13	11897.3	-442.2	-87.0	0.00	0.00	-440.3	
5	12467.6	90.00	359.89	12462.0	34.5	-96.3	12.00	168.44	36.5	
6	16779.3	90.00	359.89	12482.0	7126.0	-147.0	0.00	0.00	7127.5	PBHL (Caballo 23 Fed Com #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (WPP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP (Caballo 23 Fed Com #701H)	12462.0	-165.0	-96.0	404885.00	783786.50
PBHL (Caballo 23 Fed Com #701H)	12462.0	7126.0	-147.0	411811.00	783636.90



Scale: 1:1000
Date: 01/10/17



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com

#701H

OH

Plan: Plan #0.2

Standard Planning Report

05 March, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3367.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3367.0usft
Site:	Caballo 23 Fed Com	North Reference:	Grid
Well:	#701H	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		Caballo 23 Fed Com			
Site Position:		Northing:	404,685.00 usft	Latitude:	32° 6' 36.494 N
From:	Map	Easting:	783,786.00 usft	Longitude:	103° 33' 1.024 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	#701H					
Well Position	+N/-S	0.0 usft	Northing:	404,685.00 usft	Latitude:	32° 6' 36.494 N
	+E/-W	0.0 usft	Easting:	783,786.00 usft	Longitude:	103° 33' 1.024 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,342.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/13/2017	6.97	59.97	47,908.16251725

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	358.82

Plan Survey Tool Program Date 3/5/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,779.3 Plan #0.2 (OH)	MWD	
			OWSG MWD - Standard	

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	
4,333.6	3.34	191.13	4,333.4	-9.5	-1.9	1.00	1.00	0.00	191.13	
11,910.4	3.34	191.13	11,897.3	-442.2	-87.0	0.00	0.00	0.00	0.00	
12,687.6	90.00	359.59	12,402.0	34.5	-96.3	12.00	11.15	21.67	168.44	
19,779.3	90.00	359.59	12,402.0	7,126.0	-147.0	0.00	0.00	0.00	0.00	PBHL (Caballo 23 Fed



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Caballo 23 Fed Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well #701H
 KB = 25' @ 3367.0usft
 KB = 25' @ 3367.0usft
 Grid
 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	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	1.00	191.13	4,100.0	-0.9	-0.2	-0.9	1.00	1.00	0.00
4,200.0	2.00	191.13	4,200.0	-3.4	-0.7	-3.4	1.00	1.00	0.00
4,300.0	3.00	191.13	4,299.9	-7.7	-1.5	-7.7	1.00	1.00	0.00
4,333.6	3.34	191.13	4,333.4	-9.5	-1.9	-9.5	1.00	1.00	0.00
4,400.0	3.34	191.13	4,399.7	-13.3	-2.6	-13.3	0.00	0.00	0.00
4,500.0	3.34	191.13	4,499.5	-19.0	-3.7	-18.9	0.00	0.00	0.00
4,600.0	3.34	191.13	4,599.4	-24.7	-4.9	-24.6	0.00	0.00	0.00
4,700.0	3.34	191.13	4,699.2	-30.4	-6.0	-30.3	0.00	0.00	0.00
4,800.0	3.34	191.13	4,799.0	-36.2	-7.1	-36.0	0.00	0.00	0.00
4,900.0	3.34	191.13	4,898.9	-41.9	-8.2	-41.7	0.00	0.00	0.00
5,000.0	3.34	191.13	4,998.7	-47.6	-9.4	-47.4	0.00	0.00	0.00
5,100.0	3.34	191.13	5,098.5	-53.3	-10.5	-53.1	0.00	0.00	0.00
5,200.0	3.34	191.13	5,198.3	-59.0	-11.6	-58.7	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
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Project: Lea County, NM (NAD 83 NME)
Site: Cabello 23 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference:
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MD Reference:
North Reference:
Survey Calculation Method:

Well #701H
KB = 25' @ 3367.0usft
KB = 25' @ 3367.0usft
Grid:
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	3.34	191.13	5,298.2	-64.7	-12.7	-64.4	0.00	0.00	0.00
5,400.0	3.34	191.13	5,398.0	-70.4	-13.8	-70.1	0.00	0.00	0.00
5,500.0	3.34	191.13	5,497.8	-76.1	-15.0	-75.8	0.00	0.00	0.00
5,600.0	3.34	191.13	5,597.7	-81.8	-16.1	-81.5	0.00	0.00	0.00
5,700.0	3.34	191.13	5,697.5	-87.5	-17.2	-87.2	0.00	0.00	0.00
5,800.0	3.34	191.13	5,797.3	-93.3	-18.3	-92.9	0.00	0.00	0.00
5,900.0	3.34	191.13	5,897.2	-99.0	-19.5	-98.5	0.00	0.00	0.00
6,000.0	3.34	191.13	5,997.0	-104.7	-20.6	-104.2	0.00	0.00	0.00
6,100.0	3.34	191.13	6,096.8	-110.4	-21.7	-109.9	0.00	0.00	0.00
6,200.0	3.34	191.13	6,196.6	-116.1	-22.8	-115.6	0.00	0.00	0.00
6,300.0	3.34	191.13	6,296.5	-121.8	-24.0	-121.3	0.00	0.00	0.00
6,400.0	3.34	191.13	6,396.3	-127.5	-25.1	-127.0	0.00	0.00	0.00
6,500.0	3.34	191.13	6,496.1	-133.2	-26.2	-132.7	0.00	0.00	0.00
6,600.0	3.34	191.13	6,596.0	-138.9	-27.3	-138.3	0.00	0.00	0.00
6,700.0	3.34	191.13	6,695.8	-144.6	-28.4	-144.0	0.00	0.00	0.00
6,800.0	3.34	191.13	6,795.6	-150.4	-29.6	-149.7	0.00	0.00	0.00
6,900.0	3.34	191.13	6,895.5	-156.1	-30.7	-155.4	0.00	0.00	0.00
7,000.0	3.34	191.13	6,995.3	-161.8	-31.8	-161.1	0.00	0.00	0.00
7,100.0	3.34	191.13	7,095.1	-167.5	-32.9	-166.8	0.00	0.00	0.00
7,200.0	3.34	191.13	7,195.0	-173.2	-34.1	-172.5	0.00	0.00	0.00
7,300.0	3.34	191.13	7,294.8	-178.9	-35.2	-178.1	0.00	0.00	0.00
7,400.0	3.34	191.13	7,394.6	-184.6	-36.3	-183.8	0.00	0.00	0.00
7,500.0	3.34	191.13	7,494.4	-190.3	-37.4	-189.5	0.00	0.00	0.00
7,600.0	3.34	191.13	7,594.3	-196.0	-38.6	-195.2	0.00	0.00	0.00
7,700.0	3.34	191.13	7,694.1	-201.7	-39.7	-200.9	0.00	0.00	0.00
7,800.0	3.34	191.13	7,793.9	-207.5	-40.8	-206.6	0.00	0.00	0.00
7,900.0	3.34	191.13	7,893.8	-213.2	-41.9	-212.3	0.00	0.00	0.00
8,000.0	3.34	191.13	7,993.6	-218.9	-43.0	-217.9	0.00	0.00	0.00
8,100.0	3.34	191.13	8,093.4	-224.6	-44.2	-223.6	0.00	0.00	0.00
8,200.0	3.34	191.13	8,193.3	-230.3	-45.3	-229.3	0.00	0.00	0.00
8,300.0	3.34	191.13	8,293.1	-236.0	-46.4	-235.0	0.00	0.00	0.00
8,400.0	3.34	191.13	8,392.9	-241.7	-47.5	-240.7	0.00	0.00	0.00
8,500.0	3.34	191.13	8,492.8	-247.4	-48.7	-246.4	0.00	0.00	0.00
8,600.0	3.34	191.13	8,592.6	-253.1	-49.8	-252.1	0.00	0.00	0.00
8,700.0	3.34	191.13	8,692.4	-258.8	-50.9	-257.7	0.00	0.00	0.00
8,800.0	3.34	191.13	8,792.2	-264.6	-52.0	-263.4	0.00	0.00	0.00
8,900.0	3.34	191.13	8,892.1	-270.3	-53.2	-269.1	0.00	0.00	0.00
9,000.0	3.34	191.13	8,991.9	-276.0	-54.3	-274.8	0.00	0.00	0.00
9,100.0	3.34	191.13	9,091.7	-281.7	-55.4	-280.5	0.00	0.00	0.00
9,200.0	3.34	191.13	9,191.6	-287.4	-56.5	-286.2	0.00	0.00	0.00
9,300.0	3.34	191.13	9,291.4	-293.1	-57.6	-291.9	0.00	0.00	0.00
9,400.0	3.34	191.13	9,391.2	-298.8	-58.8	-297.5	0.00	0.00	0.00
9,500.0	3.34	191.13	9,491.1	-304.5	-59.9	-303.2	0.00	0.00	0.00
9,600.0	3.34	191.13	9,590.9	-310.2	-61.0	-308.9	0.00	0.00	0.00
9,700.0	3.34	191.13	9,690.7	-315.9	-62.1	-314.6	0.00	0.00	0.00
9,800.0	3.34	191.13	9,790.5	-321.7	-63.3	-320.3	0.00	0.00	0.00
9,900.0	3.34	191.13	9,890.4	-327.4	-64.4	-326.0	0.00	0.00	0.00
10,000.0	3.34	191.13	9,990.2	-333.1	-65.5	-331.7	0.00	0.00	0.00
10,100.0	3.34	191.13	10,090.0	-338.8	-66.6	-337.3	0.00	0.00	0.00
10,200.0	3.34	191.13	10,189.9	-344.5	-67.8	-343.0	0.00	0.00	0.00
10,300.0	3.34	191.13	10,289.7	-350.2	-68.9	-348.7	0.00	0.00	0.00
10,400.0	3.34	191.13	10,389.5	-355.9	-70.0	-354.4	0.00	0.00	0.00
10,500.0	3.34	191.13	10,489.4	-361.6	-71.1	-360.1	0.00	0.00	0.00
10,600.0	3.34	191.13	10,589.2	-367.3	-72.2	-365.8	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Caballo 23-Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #701H
KB = 25' @ 3367.0usft
KB = 25' @ 3367.0usft
Grid
Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulk Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	3.34	191.13	10,689.0	-373.0	-73.4	-371.4	0.00	0.00	0.00
10,800.0	3.34	191.13	10,788.9	-378.8	-74.5	-377.1	0.00	0.00	0.00
10,900.0	3.34	191.13	10,888.7	-384.5	-75.6	-382.8	0.00	0.00	0.00
11,000.0	3.34	191.13	10,988.5	-390.2	-76.7	-388.5	0.00	0.00	0.00
11,100.0	3.34	191.13	11,088.3	-395.9	-77.9	-394.2	0.00	0.00	0.00
11,200.0	3.34	191.13	11,188.2	-401.6	-79.0	-399.9	0.00	0.00	0.00
11,300.0	3.34	191.13	11,288.0	-407.3	-80.1	-405.6	0.00	0.00	0.00
11,400.0	3.34	191.13	11,387.8	-413.0	-81.2	-411.2	0.00	0.00	0.00
11,500.0	3.34	191.13	11,487.7	-418.7	-82.4	-416.9	0.00	0.00	0.00
11,600.0	3.34	191.13	11,587.5	-424.4	-83.5	-422.6	0.00	0.00	0.00
11,700.0	3.34	191.13	11,687.3	-430.1	-84.6	-428.3	0.00	0.00	0.00
11,800.0	3.34	191.13	11,787.2	-435.8	-85.7	-434.0	0.00	0.00	0.00
11,900.0	3.34	191.13	11,887.0	-441.6	-86.8	-439.7	0.00	0.00	0.00
11,910.4	3.34	191.13	11,897.3	-442.2	-87.0	-440.3	0.00	0.00	0.00
11,925.0	1.65	203.40	11,912.0	-442.8	-87.1	-440.9	12.00	-11.50	83.89
11,950.0	1.63	335.40	11,937.0	-442.8	-87.4	-440.9	12.00	-0.10	528.01
11,975.0	4.54	351.14	11,961.9	-441.5	-87.7	-439.6	12.00	11.62	62.96
12,000.0	7.52	354.52	11,986.8	-438.9	-88.0	-437.0	12.00	11.92	13.52
12,025.0	10.51	355.99	12,011.5	-435.0	-88.3	-433.0	12.00	11.97	5.86
12,050.0	13.50	356.81	12,035.9	-429.8	-88.7	-427.9	12.00	11.98	3.28
12,075.0	16.50	357.33	12,060.1	-423.3	-89.0	-421.4	12.00	11.99	2.11
12,100.0	19.50	357.70	12,083.8	-415.6	-89.3	-413.7	12.00	11.99	1.48
12,125.0	22.50	357.98	12,107.2	-406.6	-89.7	-404.7	12.00	11.99	1.09
12,150.0	25.49	358.19	12,130.0	-396.5	-90.0	-394.5	12.00	12.00	0.85
12,175.0	28.49	358.36	12,152.3	-385.1	-90.3	-383.2	12.00	12.00	0.68
12,200.0	31.49	358.50	12,173.9	-372.7	-90.7	-370.7	12.00	12.00	0.56
12,225.0	34.49	358.62	12,194.9	-359.0	-91.0	-357.1	12.00	12.00	0.47
12,250.0	37.49	358.72	12,215.1	-344.4	-91.4	-342.4	12.00	12.00	0.41
12,275.0	40.49	358.81	12,234.5	-328.6	-91.7	-326.7	12.00	12.00	0.35
12,300.0	43.49	358.89	12,253.1	-311.9	-92.0	-310.0	12.00	12.00	0.31
12,325.0	46.49	358.96	12,270.8	-294.2	-92.4	-292.3	12.00	12.00	0.26
12,350.0	49.49	359.02	12,287.5	-275.7	-92.7	-273.7	12.00	12.00	0.25
12,375.0	52.49	359.08	12,303.3	-256.3	-93.0	-254.3	12.00	12.00	0.23
12,400.0	55.49	359.13	12,318.0	-236.0	-93.3	-234.1	12.00	12.00	0.21
12,425.0	58.49	359.18	12,331.6	-215.1	-93.6	-213.1	12.00	12.00	0.20
12,450.0	61.49	359.23	12,344.1	-193.4	-93.9	-191.5	12.00	12.00	0.19
12,475.0	64.49	359.27	12,355.4	-171.2	-94.2	-169.2	12.00	12.00	0.18
12,500.0	67.49	359.31	12,365.6	-148.3	-94.5	-146.4	12.00	12.00	0.17
12,525.0	70.49	359.35	12,374.6	-125.0	-94.8	-123.0	12.00	12.00	0.16
12,550.0	73.49	359.39	12,382.3	-101.2	-95.1	-99.2	12.00	12.00	0.15
12,575.0	76.49	359.43	12,388.8	-77.1	-95.3	-75.1	12.00	12.00	0.15
12,600.0	79.49	359.47	12,394.0	-52.6	-95.5	-50.7	12.00	12.00	0.15
12,625.0	82.49	359.50	12,397.9	-27.9	-95.8	-26.0	12.00	12.00	0.14
12,650.0	85.49	359.54	12,400.5	-3.1	-96.0	-1.1	12.00	12.00	0.14
12,675.0	88.49	359.57	12,401.8	21.9	-96.2	23.8	12.00	12.00	0.14
12,687.8	90.00	359.59	12,402.0	34.5	-96.3	36.5	12.00	12.00	0.14
12,700.0	90.00	359.59	12,402.0	46.9	-96.3	48.8	0.00	0.00	0.00
12,800.0	90.00	359.59	12,402.0	146.9	-97.1	148.8	0.00	0.00	0.00
12,900.0	90.00	359.59	12,402.0	246.9	-97.8	248.8	0.00	0.00	0.00
13,000.0	90.00	359.59	12,402.0	346.9	-98.5	348.8	0.00	0.00	0.00
13,100.0	90.00	359.59	12,402.0	446.9	-99.2	448.8	0.00	0.00	0.00
13,200.0	90.00	359.59	12,402.0	546.9	-99.9	548.8	0.00	0.00	0.00
13,300.0	90.00	359.59	12,402.0	646.9	-100.6	648.8	0.00	0.00	0.00
13,400.0	90.00	359.59	12,402.0	746.9	-101.4	748.8	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Caballo 23 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #701H
KB = 25' @ 3367.0usft
KB = 25' @ 3367.0usft
Grid
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)
13,500.0	90.00	359.59	12,402.0	846.8	-102.1	848.8	0.00	0.00	0.00
13,600.0	90.00	359.59	12,402.0	846.8	-102.8	948.8	0.00	0.00	0.00
13,700.0	90.00	359.59	12,402.0	1,046.8	-103.5	1,048.8	0.00	0.00	0.00
13,800.0	90.00	359.59	12,402.0	1,146.8	-104.2	1,148.7	0.00	0.00	0.00
13,900.0	90.00	359.59	12,402.0	1,246.8	-104.9	1,248.7	0.00	0.00	0.00
14,000.0	90.00	359.59	12,402.0	1,346.8	-105.6	1,348.7	0.00	0.00	0.00
14,100.0	90.00	359.59	12,402.0	1,446.8	-106.4	1,448.7	0.00	0.00	0.00
14,200.0	90.00	359.59	12,402.0	1,546.8	-107.1	1,548.7	0.00	0.00	0.00
14,300.0	90.00	359.59	12,402.0	1,646.8	-107.8	1,648.7	0.00	0.00	0.00
14,400.0	90.00	359.59	12,402.0	1,746.8	-108.5	1,748.7	0.00	0.00	0.00
14,500.0	90.00	359.59	12,402.0	1,846.8	-109.2	1,848.7	0.00	0.00	0.00
14,600.0	90.00	359.59	12,402.0	1,946.8	-109.9	1,948.7	0.00	0.00	0.00
14,700.0	90.00	359.59	12,402.0	2,046.8	-110.7	2,048.7	0.00	0.00	0.00
14,800.0	90.00	359.59	12,402.0	2,146.8	-111.4	2,148.7	0.00	0.00	0.00
14,900.0	90.00	359.59	12,402.0	2,246.8	-112.1	2,248.6	0.00	0.00	0.00
15,000.0	90.00	359.59	12,402.0	2,346.8	-112.8	2,348.6	0.00	0.00	0.00
15,100.0	90.00	359.59	12,402.0	2,446.8	-113.5	2,448.6	0.00	0.00	0.00
15,200.0	90.00	359.59	12,402.0	2,546.8	-114.2	2,548.6	0.00	0.00	0.00
15,300.0	90.00	359.59	12,402.0	2,646.8	-114.9	2,648.6	0.00	0.00	0.00
15,400.0	90.00	359.59	12,402.0	2,746.8	-115.7	2,748.6	0.00	0.00	0.00
15,500.0	90.00	359.59	12,402.0	2,846.8	-116.4	2,848.6	0.00	0.00	0.00
15,600.0	90.00	359.59	12,402.0	2,946.8	-117.1	2,948.6	0.00	0.00	0.00
15,700.0	90.00	359.59	12,402.0	3,046.8	-117.8	3,048.6	0.00	0.00	0.00
15,800.0	90.00	359.59	12,402.0	3,146.8	-118.5	3,148.6	0.00	0.00	0.00
15,900.0	90.00	359.59	12,402.0	3,246.8	-119.2	3,248.6	0.00	0.00	0.00
16,000.0	90.00	359.59	12,402.0	3,346.8	-120.0	3,348.5	0.00	0.00	0.00
16,100.0	90.00	359.59	12,402.0	3,446.8	-120.7	3,448.5	0.00	0.00	0.00
16,200.0	90.00	359.59	12,402.0	3,546.8	-121.4	3,548.5	0.00	0.00	0.00
16,300.0	90.00	359.59	12,402.0	3,646.8	-122.1	3,648.5	0.00	0.00	0.00
16,400.0	90.00	359.59	12,402.0	3,746.8	-122.8	3,748.5	0.00	0.00	0.00
16,500.0	90.00	359.59	12,402.0	3,846.8	-123.5	3,848.5	0.00	0.00	0.00
16,600.0	90.00	359.59	12,402.0	3,946.8	-124.2	3,948.5	0.00	0.00	0.00
16,700.0	90.00	359.59	12,402.0	4,046.8	-125.0	4,048.5	0.00	0.00	0.00
16,800.0	90.00	359.59	12,402.0	4,146.8	-125.7	4,148.5	0.00	0.00	0.00
16,900.0	90.00	359.59	12,402.0	4,246.8	-126.4	4,248.5	0.00	0.00	0.00
17,000.0	90.00	359.59	12,402.0	4,346.8	-127.1	4,348.5	0.00	0.00	0.00
17,100.0	90.00	359.59	12,402.0	4,446.8	-127.8	4,448.4	0.00	0.00	0.00
17,200.0	90.00	359.59	12,402.0	4,546.8	-128.5	4,548.4	0.00	0.00	0.00
17,300.0	90.00	359.59	12,402.0	4,646.8	-129.3	4,648.4	0.00	0.00	0.00
17,400.0	90.00	359.59	12,402.0	4,746.7	-130.0	4,748.4	0.00	0.00	0.00
17,500.0	90.00	359.59	12,402.0	4,846.7	-130.7	4,848.4	0.00	0.00	0.00
17,600.0	90.00	359.59	12,402.0	4,946.7	-131.4	4,948.4	0.00	0.00	0.00
17,700.0	90.00	359.59	12,402.0	5,046.7	-132.1	5,048.4	0.00	0.00	0.00
17,800.0	90.00	359.59	12,402.0	5,146.7	-132.8	5,148.4	0.00	0.00	0.00
17,900.0	90.00	359.59	12,402.0	5,246.7	-133.6	5,248.4	0.00	0.00	0.00
18,000.0	90.00	359.59	12,402.0	5,346.7	-134.3	5,348.4	0.00	0.00	0.00
18,100.0	90.00	359.59	12,402.0	5,446.7	-135.0	5,448.4	0.00	0.00	0.00
18,200.0	90.00	359.59	12,402.0	5,546.7	-135.7	5,548.3	0.00	0.00	0.00
18,300.0	90.00	359.59	12,402.0	5,646.7	-136.4	5,648.3	0.00	0.00	0.00
18,400.0	90.00	359.59	12,402.0	5,746.7	-137.1	5,748.3	0.00	0.00	0.00
18,500.0	90.00	359.59	12,402.0	5,846.7	-137.8	5,848.3	0.00	0.00	0.00
18,600.0	90.00	359.59	12,402.0	5,946.7	-138.6	5,948.3	0.00	0.00	0.00
18,700.0	90.00	359.59	12,402.0	6,046.7	-139.3	6,048.3	0.00	0.00	0.00
18,800.0	90.00	359.59	12,402.0	6,146.7	-140.0	6,148.3	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3367.0usft
Project:	Lee County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3367.0usft
Site:	Caballo 23 Fed Com	North Reference:	Grid
Well:	#701H	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)
18,900.0	90.00	359.59	12,402.0	6,246.7	-140.7	6,248.3	0.00	0.00	0.00
19,000.0	90.00	359.59	12,402.0	6,346.7	-141.4	6,348.3	0.00	0.00	0.00
19,100.0	90.00	359.59	12,402.0	6,446.7	-142.1	6,448.3	0.00	0.00	0.00
19,200.0	90.00	359.59	12,402.0	6,546.7	-142.9	6,548.3	0.00	0.00	0.00
19,300.0	90.00	359.59	12,402.0	6,646.7	-143.6	6,648.2	0.00	0.00	0.00
19,400.0	90.00	359.59	12,402.0	6,746.7	-144.3	6,748.2	0.00	0.00	0.00
19,500.0	90.00	359.59	12,402.0	6,846.7	-145.0	6,848.2	0.00	0.00	0.00
19,600.0	90.00	359.59	12,402.0	6,946.7	-145.7	6,948.2	0.00	0.00	0.00
19,700.0	90.00	359.59	12,402.0	7,046.7	-146.4	7,048.2	0.00	0.00	0.00
19,779.3	90.00	359.59	12,402.0	7,126.0	-147.0	7,127.5	0.00	0.00	0.00

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									
PBHL (Caballo 23 Fed C	0.00	0.00	12,402.0	7,126.0	-147.0	411,811.00	783,639.00	32° 7' 47.019 N	103° 33' 2.131 W
- plan hits target center									
- Point									
FTP (Caballo 23 Fed Co	0.00	0.00	12,402.0	-165.0	-95.0	404,520.00	783,691.00	32° 6' 34.869 N	103° 33' 2.143 W
- plan misses target center by 40.0usft at 12499.6usft MD (12365.5 TVD, -148.7 N, -94.5 E)									
- Point									