

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 30-025-43876	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 #702H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3342'

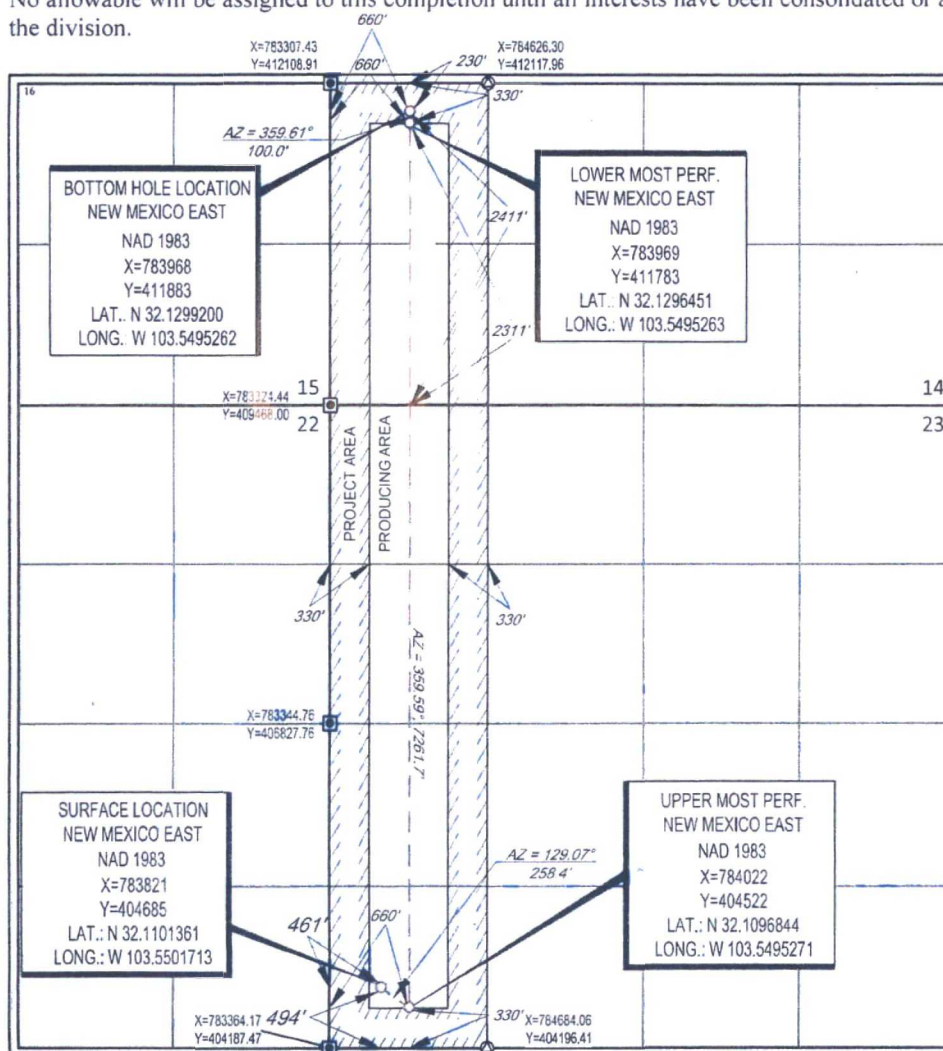
¹⁰Surface Location

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	461'	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	660'	WEST	LEA

¹² 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 undivided 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: 3/5/18
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: 09/26/2017
Signature and Seal of Professional Surveyor: *Michael Brown*
Certificate Number: 18329

Revised Permit Information 3/2/18:

Well Name: Caballo 23 Fed Com No. 702H

Location:

SL: 494' FSL & 461' FWL, Section 23, T-25-S, R-33-E, Lea Co., N.M.

BHL: 2411' FSL & 660' 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'-19,851'	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
19,851'	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:

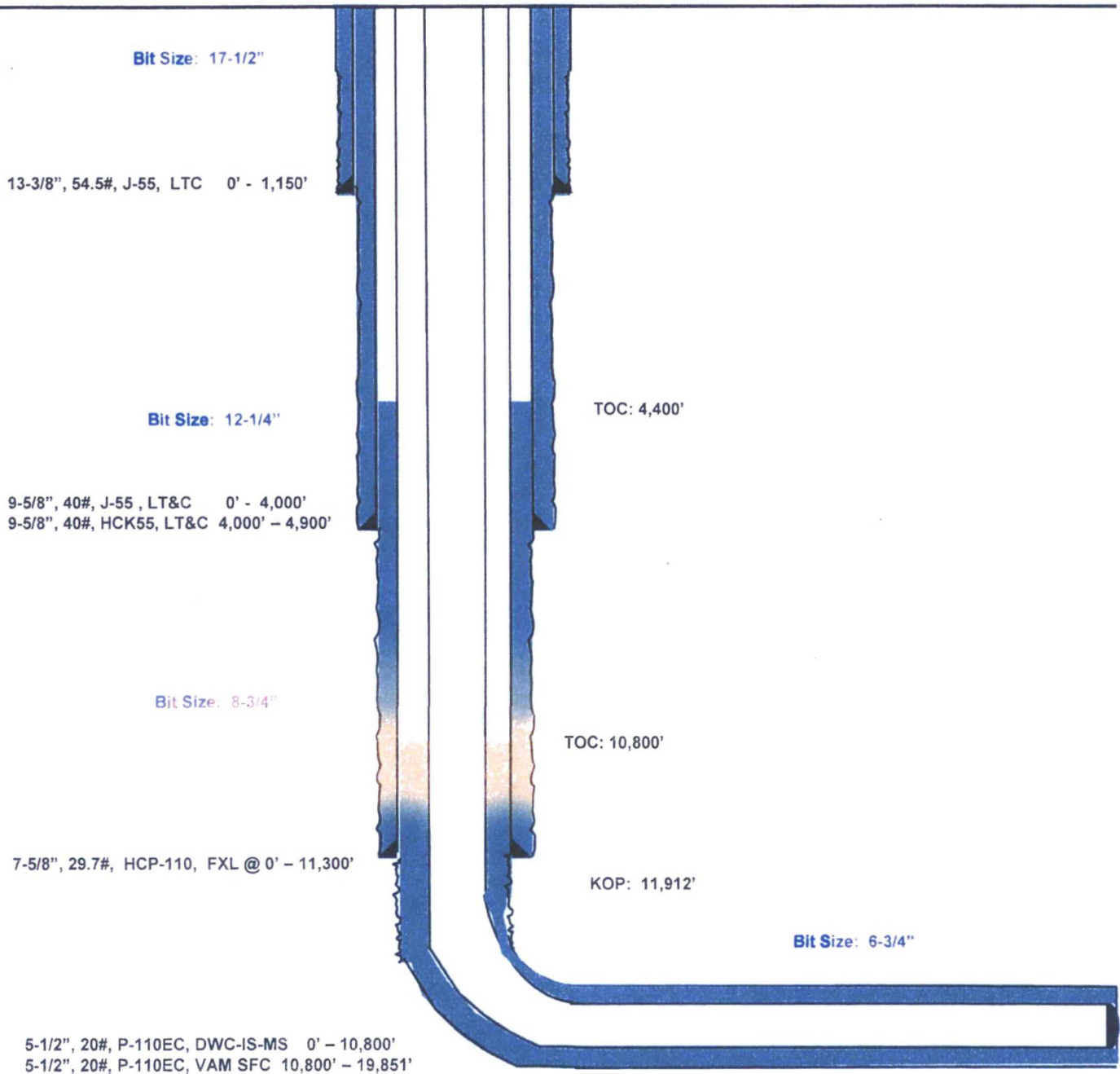
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' - 4,900'	Brine	10.0-10.2	28-34	N/c
4,900' - 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' - 19,851' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Caballo 23 Fed Com #702H
Lea County, New Mexico

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

Proposed Wellbore
Revised 3/2/18
API: 30-025-43876

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



Lateral: 19,851' MD, 12,402' TVD
Upper Most Perf:
330' FSL & 680' FWL Sec. 23
Lower Most Perf:
2311' FSL & 660' FWL Sec. 14
BH Location: 2411' FSL & 660' FWL
Section 14
T-25-S, R-33-E



Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com #702H

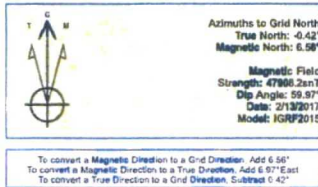
Plan #0.2

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: #702H

Ground Level: 3342.0
KB = 25' @ 3367.0usft
Northing: 404685.00 Easting: 783821.00 Latitude: 32° 6' 36.492 N Longitude: 103° 33' 0.617 W



SECTION DETAILS

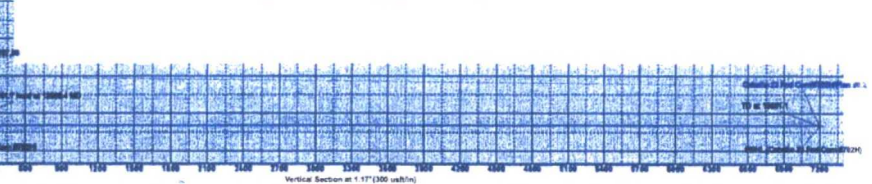
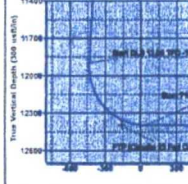
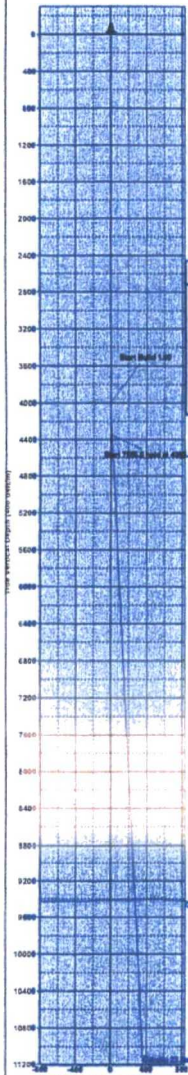
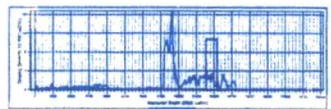
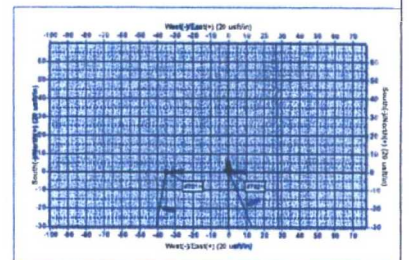
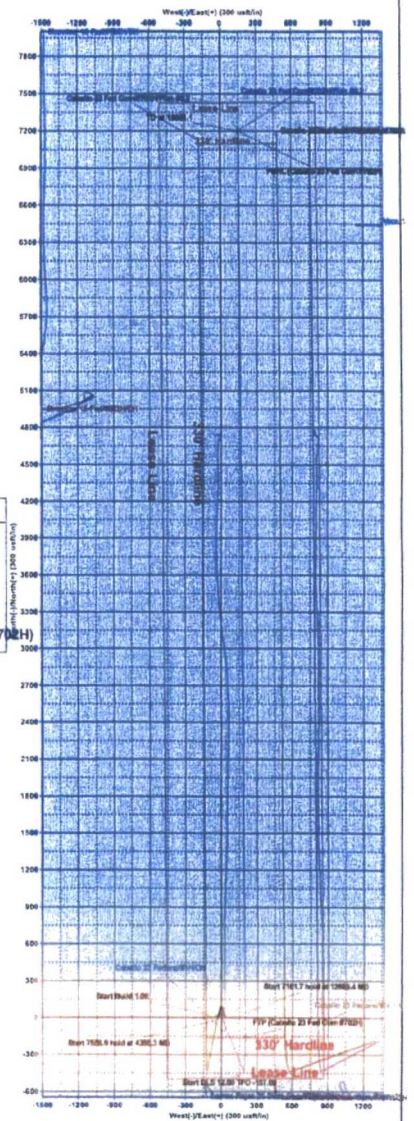
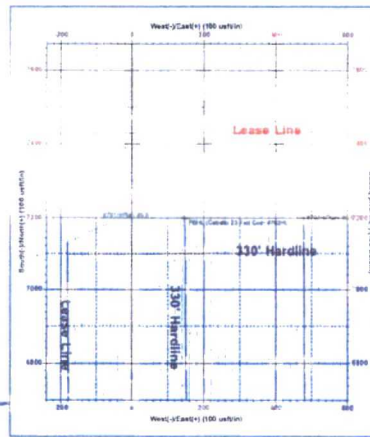
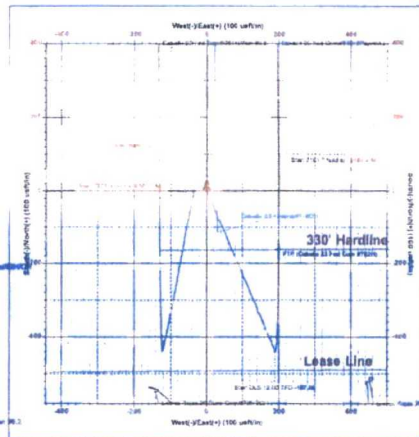
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4355.3	3.55	156.71	4355.1	-10.1	4.4	1.00	156.71	-10.0	
4	11912.2	3.55	156.71	11897.4	-440.3	189.5	0.00	0.00	-436.3	
5	12689.4	90.00	359.59	12402.0	36.5	198.2	12.00	-157.09	40.5	
6	19851.1	90.00	359.59	12402.0	7198.0	147.0	0.00	0.00	7199.5	PBHL (Caballo 23 Fed Com #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Caballo 23 Fed Com #702H)	12402.0	-163.0	201.0	404822.00	784022.00
PBHL (Caballo 23 Fed Com #702H)	12402.0	7198.0	147.0	411883.00	783968.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com

#702H

OH

Plan: Plan #0.1

Standard Planning Report

05 March, 2018



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Caballo 23 Fed Com
 Well: #702H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25' @ 3367.0usft
 MD Reference: KB = 25' @ 3367.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD 83 NME)
 Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

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: #702H
 Well Position: +N/-S 0.0 usft Northing: 404,685.00 usft Latitude: 32° 6' 36.492 N
 +E/-W 35.0 usft Easting: 783,821.00 usft Longitude: 103° 33' 0.617 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 47,908.17405831

Design: Plan #0.1
 Audit Notes:
 Version: Phase: PLAN Tie On Depth: 0.0
 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.0 0.0 0.0 1.17

Plan Survey Tool Program Date 3/5/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,851.1 Plan #0.1 (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	
4,355.3	3.55	156.71	4,355.1	-10.1	4.4	1.00	1.00	0.00	156.71	
11,912.2	3.55	156.71	11,897.4	-440.3	189.5	0.00	0.00	0.00	0.00	
12,689.4	90.00	359.59	12,402.0	36.5	198.2	12.00	11.12	-20.21	-157.09	
19,851.1	90.00	359.59	12,402.0	7,198.0	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: #702H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25' @ 3367.0usft
 MD Reference: KB = 25' @ 3367.0usft
 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	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	156.71	4,100.0	-0.8	0.3	-0.8	1.00	1.00	0.00
4,200.0	2.00	156.71	4,200.0	-3.2	1.4	-3.2	1.00	1.00	0.00
4,300.0	3.00	156.71	4,299.9	-7.2	3.1	-7.1	1.00	1.00	0.00
4,355.3	3.55	156.71	4,355.1	-10.1	4.4	-10.0	1.00	1.00	0.00
4,400.0	3.55	156.71	4,399.7	-12.7	5.4	-12.5	0.00	0.00	0.00
4,500.0	3.55	156.71	4,499.5	-18.4	7.9	-18.2	0.00	0.00	0.00
4,600.0	3.55	156.71	4,599.3	-24.0	10.3	-23.8	0.00	0.00	0.00
4,700.0	3.55	156.71	4,699.1	-29.7	12.8	-29.5	0.00	0.00	0.00
4,800.0	3.55	156.71	4,798.9	-35.4	15.2	-35.1	0.00	0.00	0.00
4,900.0	3.55	156.71	4,898.7	-41.1	17.7	-40.8	0.00	0.00	0.00
5,000.0	3.55	156.71	4,998.5	-46.8	20.1	-46.4	0.00	0.00	0.00
5,100.0	3.55	156.71	5,098.3	-52.5	22.6	-52.0	0.00	0.00	0.00
5,200.0	3.55	156.71	5,198.1	-58.2	25.0	-57.7	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: #702H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #702H
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	3.55	156.71	5,298.0	-63.9	27.5	-63.3	0.00	0.00	0.00
5,400.0	3.55	156.71	5,397.8	-69.6	29.9	-69.0	0.00	0.00	0.00
5,500.0	3.55	156.71	5,497.6	-75.3	32.4	-74.6	0.00	0.00	0.00
5,600.0	3.55	156.71	5,597.4	-81.0	34.8	-80.2	0.00	0.00	0.00
5,700.0	3.55	156.71	5,697.2	-86.7	37.3	-85.9	0.00	0.00	0.00
5,800.0	3.55	156.71	5,797.0	-92.4	39.7	-91.5	0.00	0.00	0.00
5,900.0	3.55	156.71	5,896.8	-98.0	42.2	-97.2	0.00	0.00	0.00
6,000.0	3.55	156.71	5,996.6	-103.7	44.6	-102.8	0.00	0.00	0.00
6,100.0	3.55	156.71	6,096.4	-109.4	47.1	-108.4	0.00	0.00	0.00
6,200.0	3.55	156.71	6,196.2	-115.1	49.5	-114.1	0.00	0.00	0.00
6,300.0	3.55	156.71	6,296.0	-120.8	52.0	-119.7	0.00	0.00	0.00
6,400.0	3.55	156.71	6,395.8	-126.5	54.4	-125.4	0.00	0.00	0.00
6,500.0	3.55	156.71	6,495.7	-132.2	56.9	-131.0	0.00	0.00	0.00
6,600.0	3.55	156.71	6,595.5	-137.9	59.3	-136.7	0.00	0.00	0.00
6,700.0	3.55	156.71	6,695.3	-143.6	61.8	-142.3	0.00	0.00	0.00
6,800.0	3.55	156.71	6,795.1	-149.3	64.2	-147.9	0.00	0.00	0.00
6,900.0	3.55	156.71	6,894.9	-155.0	66.7	-153.6	0.00	0.00	0.00
7,000.0	3.55	156.71	6,994.7	-160.7	69.1	-159.2	0.00	0.00	0.00
7,100.0	3.55	156.71	7,094.5	-166.4	71.6	-164.9	0.00	0.00	0.00
7,200.0	3.55	156.71	7,194.3	-172.0	74.0	-170.5	0.00	0.00	0.00
7,300.0	3.55	156.71	7,294.1	-177.7	76.5	-176.1	0.00	0.00	0.00
7,400.0	3.55	156.71	7,393.9	-183.4	78.9	-181.8	0.00	0.00	0.00
7,500.0	3.55	156.71	7,493.7	-189.1	81.4	-187.4	0.00	0.00	0.00
7,600.0	3.55	156.71	7,593.5	-194.8	83.8	-193.1	0.00	0.00	0.00
7,700.0	3.55	156.71	7,693.3	-200.5	86.3	-198.7	0.00	0.00	0.00
7,800.0	3.55	156.71	7,793.2	-206.2	88.7	-204.3	0.00	0.00	0.00
7,900.0	3.55	156.71	7,893.0	-211.9	91.2	-210.0	0.00	0.00	0.00
8,000.0	3.55	156.71	7,992.8	-217.6	93.6	-215.6	0.00	0.00	0.00
8,100.0	3.55	156.71	8,092.6	-223.3	96.1	-221.3	0.00	0.00	0.00
8,200.0	3.55	156.71	8,192.4	-229.0	98.5	-226.9	0.00	0.00	0.00
8,300.0	3.55	156.71	8,292.2	-234.7	101.0	-232.5	0.00	0.00	0.00
8,400.0	3.55	156.71	8,392.0	-240.4	103.4	-238.2	0.00	0.00	0.00
8,500.0	3.55	156.71	8,491.8	-246.0	105.9	-243.8	0.00	0.00	0.00
8,600.0	3.55	156.71	8,591.6	-251.7	108.3	-249.5	0.00	0.00	0.00
8,700.0	3.55	156.71	8,691.4	-257.4	110.8	-255.1	0.00	0.00	0.00
8,800.0	3.55	156.71	8,791.2	-263.1	113.2	-260.8	0.00	0.00	0.00
8,900.0	3.55	156.71	8,891.0	-268.8	115.7	-266.4	0.00	0.00	0.00
9,000.0	3.55	156.71	8,990.8	-274.5	118.1	-272.0	0.00	0.00	0.00
9,100.0	3.55	156.71	9,090.7	-280.2	120.6	-277.7	0.00	0.00	0.00
9,200.0	3.55	156.71	9,190.5	-285.9	123.0	-283.3	0.00	0.00	0.00
9,300.0	3.55	156.71	9,290.3	-291.6	125.5	-289.0	0.00	0.00	0.00
9,400.0	3.55	156.71	9,390.1	-297.3	127.9	-294.6	0.00	0.00	0.00
9,500.0	3.55	156.71	9,489.9	-303.0	130.4	-300.2	0.00	0.00	0.00
9,600.0	3.55	156.71	9,589.7	-308.7	132.8	-305.9	0.00	0.00	0.00
9,700.0	3.55	156.71	9,689.5	-314.4	135.3	-311.5	0.00	0.00	0.00
9,800.0	3.55	156.71	9,789.3	-320.0	137.7	-317.2	0.00	0.00	0.00
9,900.0	3.55	156.71	9,889.1	-325.7	140.2	-322.8	0.00	0.00	0.00
10,000.0	3.55	156.71	9,988.9	-331.4	142.6	-328.4	0.00	0.00	0.00
10,100.0	3.55	156.71	10,088.7	-337.1	145.1	-334.1	0.00	0.00	0.00
10,200.0	3.55	156.71	10,188.5	-342.8	147.5	-339.7	0.00	0.00	0.00
10,300.0	3.55	156.71	10,288.3	-348.5	150.0	-345.4	0.00	0.00	0.00
10,400.0	3.55	156.71	10,388.2	-354.2	152.4	-351.0	0.00	0.00	0.00
10,500.0	3.55	156.71	10,488.0	-359.9	154.9	-356.7	0.00	0.00	0.00
10,600.0	3.55	156.71	10,587.8	-365.6	157.3	-362.3	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: #702H
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Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3367.0usft
MD Reference: KB = 25' @ 3367.0usft
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	3.55	156.71	10,687.6	-371.3	159.8	-367.9	0.00	0.00	0.00
10,800.0	3.55	156.71	10,787.4	-377.0	162.2	-373.6	0.00	0.00	0.00
10,900.0	3.55	156.71	10,887.2	-382.7	164.7	-379.2	0.00	0.00	0.00
11,000.0	3.55	156.71	10,987.0	-388.4	167.1	-384.9	0.00	0.00	0.00
11,100.0	3.55	156.71	11,086.8	-394.0	169.6	-390.5	0.00	0.00	0.00
11,200.0	3.55	156.71	11,186.6	-399.7	172.0	-396.1	0.00	0.00	0.00
11,300.0	3.55	156.71	11,286.4	-405.4	174.5	-401.8	0.00	0.00	0.00
11,400.0	3.55	156.71	11,386.2	-411.1	176.9	-407.4	0.00	0.00	0.00
11,500.0	3.55	156.71	11,486.0	-416.8	179.4	-413.1	0.00	0.00	0.00
11,600.0	3.55	156.71	11,585.8	-422.5	181.8	-418.7	0.00	0.00	0.00
11,700.0	3.55	156.71	11,685.7	-428.2	184.3	-424.3	0.00	0.00	0.00
11,800.0	3.55	156.71	11,785.5	-433.9	186.7	-430.0	0.00	0.00	0.00
11,900.0	3.55	156.71	11,885.3	-439.6	189.2	-435.6	0.00	0.00	0.00
11,912.2	3.55	156.71	11,897.4	-440.3	189.5	-436.3	0.00	0.00	0.00
11,925.0	2.22	141.03	11,910.2	-440.8	189.8	-436.9	12.00	-10.41	-122.26
11,950.0	1.87	47.10	11,935.2	-440.9	190.4	-437.0	12.00	-1.37	-375.72
11,975.0	4.48	17.51	11,960.2	-439.7	191.0	-435.7	12.00	10.44	-118.35
12,000.0	7.40	10.31	11,985.0	-437.2	191.6	-433.2	12.00	11.65	-28.83
12,025.0	10.36	7.18	12,009.7	-433.4	192.1	-429.4	12.00	11.85	-12.51
12,050.0	13.34	5.43	12,034.2	-428.3	192.7	-424.3	12.00	11.92	-6.98
12,075.0	16.32	4.32	12,058.4	-421.9	193.2	-417.9	12.00	11.95	-4.46
12,100.0	19.31	3.54	12,082.2	-414.3	193.8	-410.2	12.00	11.96	-3.11
12,125.0	22.31	2.96	12,105.5	-405.4	194.3	-401.4	12.00	11.97	-2.31
12,150.0	25.30	2.52	12,128.4	-395.3	194.7	-391.3	12.00	11.98	-1.78
12,175.0	28.30	2.16	12,150.7	-384.1	195.2	-380.0	12.00	11.98	-1.43
12,200.0	31.29	1.87	12,172.4	-371.7	195.6	-367.6	12.00	11.99	-1.18
12,225.0	34.29	1.62	12,193.4	-358.1	196.0	-354.1	12.00	11.99	-0.99
12,250.0	37.29	1.41	12,213.7	-343.5	196.4	-339.4	12.00	11.99	-0.85
12,275.0	40.29	1.22	12,233.2	-327.9	196.8	-323.8	12.00	11.99	-0.74
12,300.0	43.28	1.06	12,251.8	-311.2	197.1	-307.1	12.00	11.99	-0.65
12,325.0	46.28	0.91	12,269.6	-293.6	197.4	-289.5	12.00	11.99	-0.58
12,350.0	49.28	0.78	12,286.4	-275.1	197.7	-271.0	12.00	11.99	-0.53
12,375.0	52.28	0.66	12,302.2	-255.7	197.9	-251.6	12.00	11.99	-0.48
12,400.0	55.28	0.55	12,316.9	-235.6	198.1	-231.5	12.00	11.99	-0.45
12,425.0	58.28	0.44	12,330.6	-214.7	198.3	-210.6	12.00	12.00	-0.41
12,450.0	61.28	0.35	12,343.2	-193.1	198.5	-189.0	12.00	12.00	-0.39
12,475.0	64.27	0.26	12,354.7	-170.8	198.6	-166.7	12.00	12.00	-0.37
12,500.0	67.27	0.17	12,364.9	-148.0	198.7	-143.9	12.00	12.00	-0.35
12,525.0	70.27	0.09	12,374.0	-124.7	198.7	-120.7	12.00	12.00	-0.33
12,550.0	73.27	0.01	12,381.8	-101.0	198.7	-96.9	12.00	12.00	-0.32
12,575.0	76.27	359.93	12,388.4	-76.9	198.7	-72.8	12.00	12.00	-0.31
12,600.0	79.27	359.85	12,393.6	-52.4	198.7	-48.4	12.00	12.00	-0.30
12,625.0	82.27	359.78	12,397.7	-27.8	198.6	-23.7	12.00	12.00	-0.30
12,650.0	85.27	359.70	12,400.4	-2.9	198.5	1.1	12.00	12.00	-0.29
12,675.0	88.27	359.63	12,401.8	22.0	198.3	26.1	12.00	12.00	-0.29
12,689.4	90.00	359.59	12,402.0	36.5	198.2	40.5	12.00	12.00	-0.29
12,700.0	90.00	359.59	12,402.0	47.0	198.2	51.1	0.00	0.00	0.00
12,800.0	90.00	359.59	12,402.0	147.0	197.5	151.0	0.00	0.00	0.00
12,900.0	90.00	359.59	12,402.0	247.0	196.7	251.0	0.00	0.00	0.00
13,000.0	90.00	359.59	12,402.0	347.0	196.0	351.0	0.00	0.00	0.00
13,100.0	90.00	359.59	12,402.0	447.0	195.3	450.9	0.00	0.00	0.00
13,200.0	90.00	359.59	12,402.0	547.0	194.6	550.9	0.00	0.00	0.00
13,300.0	90.00	359.59	12,402.0	647.0	193.9	650.8	0.00	0.00	0.00
13,400.0	90.00	359.59	12,402.0	747.0	193.2	750.8	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: #702H
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Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well #702H
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	847.0	192.4	850.8	0.00	0.00	0.00
13,600.0	90.00	359.59	12,402.0	947.0	191.7	950.7	0.00	0.00	0.00
13,700.0	90.00	359.59	12,402.0	1,047.0	191.0	1,050.7	0.00	0.00	0.00
13,800.0	90.00	359.59	12,402.0	1,147.0	190.3	1,150.7	0.00	0.00	0.00
13,900.0	90.00	359.59	12,402.0	1,247.0	189.6	1,250.6	0.00	0.00	0.00
14,000.0	90.00	359.59	12,402.0	1,347.0	188.9	1,350.6	0.00	0.00	0.00
14,100.0	90.00	359.59	12,402.0	1,447.0	188.2	1,450.5	0.00	0.00	0.00
14,200.0	90.00	359.59	12,402.0	1,547.0	187.4	1,550.5	0.00	0.00	0.00
14,300.0	90.00	359.59	12,402.0	1,647.0	186.7	1,650.5	0.00	0.00	0.00
14,400.0	90.00	359.59	12,402.0	1,747.0	186.0	1,750.4	0.00	0.00	0.00
14,500.0	90.00	359.59	12,402.0	1,847.0	185.3	1,850.4	0.00	0.00	0.00
14,600.0	90.00	359.59	12,402.0	1,947.0	184.6	1,950.3	0.00	0.00	0.00
14,700.0	90.00	359.59	12,402.0	2,047.0	183.9	2,050.3	0.00	0.00	0.00
14,800.0	90.00	359.59	12,402.0	2,147.0	183.1	2,150.3	0.00	0.00	0.00
14,900.0	90.00	359.59	12,402.0	2,247.0	182.4	2,250.2	0.00	0.00	0.00
15,000.0	90.00	359.59	12,402.0	2,347.0	181.7	2,350.2	0.00	0.00	0.00
15,100.0	90.00	359.59	12,402.0	2,447.0	181.0	2,450.2	0.00	0.00	0.00
15,200.0	90.00	359.59	12,402.0	2,547.0	180.3	2,550.1	0.00	0.00	0.00
15,300.0	90.00	359.59	12,402.0	2,647.0	179.6	2,650.1	0.00	0.00	0.00
15,400.0	90.00	359.59	12,402.0	2,747.0	178.9	2,750.0	0.00	0.00	0.00
15,500.0	90.00	359.59	12,402.0	2,847.0	178.1	2,850.0	0.00	0.00	0.00
15,600.0	90.00	359.59	12,402.0	2,947.0	177.4	2,950.0	0.00	0.00	0.00
15,700.0	90.00	359.59	12,402.0	3,047.0	176.7	3,049.9	0.00	0.00	0.00
15,800.0	90.00	359.59	12,402.0	3,147.0	176.0	3,149.9	0.00	0.00	0.00
15,900.0	90.00	359.59	12,402.0	3,247.0	175.3	3,249.9	0.00	0.00	0.00
16,000.0	90.00	359.59	12,402.0	3,346.9	174.6	3,349.8	0.00	0.00	0.00
16,100.0	90.00	359.59	12,402.0	3,446.9	173.8	3,449.8	0.00	0.00	0.00
16,200.0	90.00	359.59	12,402.0	3,546.9	173.1	3,549.7	0.00	0.00	0.00
16,300.0	90.00	359.59	12,402.0	3,646.9	172.4	3,649.7	0.00	0.00	0.00
16,400.0	90.00	359.59	12,402.0	3,746.9	171.7	3,749.7	0.00	0.00	0.00
16,500.0	90.00	359.59	12,402.0	3,846.9	171.0	3,849.6	0.00	0.00	0.00
16,600.0	90.00	359.59	12,402.0	3,946.9	170.3	3,949.6	0.00	0.00	0.00
16,700.0	90.00	359.59	12,402.0	4,046.9	169.5	4,049.5	0.00	0.00	0.00
16,800.0	90.00	359.59	12,402.0	4,146.9	168.8	4,149.5	0.00	0.00	0.00
16,900.0	90.00	359.59	12,402.0	4,246.9	168.1	4,249.5	0.00	0.00	0.00
17,000.0	90.00	359.59	12,402.0	4,346.9	167.4	4,349.4	0.00	0.00	0.00
17,100.0	90.00	359.59	12,402.0	4,446.9	166.7	4,449.4	0.00	0.00	0.00
17,200.0	90.00	359.59	12,402.0	4,546.9	166.0	4,549.4	0.00	0.00	0.00
17,300.0	90.00	359.59	12,402.0	4,646.9	165.3	4,649.3	0.00	0.00	0.00
17,400.0	90.00	359.59	12,402.0	4,746.9	164.5	4,749.3	0.00	0.00	0.00
17,500.0	90.00	359.59	12,402.0	4,846.9	163.8	4,849.2	0.00	0.00	0.00
17,600.0	90.00	359.59	12,402.0	4,946.9	163.1	4,949.2	0.00	0.00	0.00
17,700.0	90.00	359.59	12,402.0	5,046.9	162.4	5,049.2	0.00	0.00	0.00
17,800.0	90.00	359.59	12,402.0	5,146.9	161.7	5,149.1	0.00	0.00	0.00
17,900.0	90.00	359.59	12,402.0	5,246.9	161.0	5,249.1	0.00	0.00	0.00
18,000.0	90.00	359.59	12,402.0	5,346.9	160.2	5,349.1	0.00	0.00	0.00
18,100.0	90.00	359.59	12,402.0	5,446.9	159.5	5,449.0	0.00	0.00	0.00
18,200.0	90.00	359.59	12,402.0	5,546.9	158.8	5,549.0	0.00	0.00	0.00
18,300.0	90.00	359.59	12,402.0	5,646.9	158.1	5,648.9	0.00	0.00	0.00
18,400.0	90.00	359.59	12,402.0	5,746.9	157.4	5,748.9	0.00	0.00	0.00
18,500.0	90.00	359.59	12,402.0	5,846.9	156.7	5,848.9	0.00	0.00	0.00
18,600.0	90.00	359.59	12,402.0	5,946.9	156.0	5,948.8	0.00	0.00	0.00
18,700.0	90.00	359.59	12,402.0	6,046.9	155.2	6,048.8	0.00	0.00	0.00
18,800.0	90.00	359.59	12,402.0	6,146.9	154.5	6,148.8	0.00	0.00	0.00



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Well #702H
 KB = 25' @ 3367.0usft
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 Grid
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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	6,246.9	153.8	6,248.7	0.00	0.00	0.00
19,000.0	90.00	359.59	12,402.0	6,346.9	153.1	6,348.7	0.00	0.00	0.00
19,100.0	90.00	359.59	12,402.0	6,446.9	152.4	6,448.6	0.00	0.00	0.00
19,200.0	90.00	359.59	12,402.0	6,546.9	151.7	6,548.6	0.00	0.00	0.00
19,300.0	90.00	359.59	12,402.0	6,646.9	150.9	6,648.6	0.00	0.00	0.00
19,400.0	90.00	359.59	12,402.0	6,746.9	150.2	6,748.5	0.00	0.00	0.00
19,500.0	90.00	359.59	12,402.0	6,846.9	149.5	6,848.5	0.00	0.00	0.00
19,600.0	90.00	359.59	12,402.0	6,946.9	148.8	6,948.4	0.00	0.00	0.00
19,700.0	90.00	359.59	12,402.0	7,046.9	148.1	7,048.4	0.00	0.00	0.00
19,800.0	90.00	359.59	12,402.0	7,146.9	147.4	7,148.4	0.00	0.00	0.00
19,851.1	90.00	359.59	12,402.0	7,198.0	147.0	7,199.5	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									
FTP (Caballo 23 Fed Co	0.00	0.00	12,402.0	-163.0	201.0	404,522.00	784,022.00	32° 6' 34.864 N	103° 32' 58.294 W
- plan misses target center by 40.1usft at 12500.0usft MD (12364.9 TVD, -148.0 N, 198.7 E)									
- Point									
PBHL (Caballo 23 Fed C	0.00	0.00	12,402.0	7,198.0	147.0	411,883.00	783,968.00	32° 7' 47.708 N	103° 32' 58.299 W
- plan hits target center									
- Point									