

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM108503
2. Name of Operator EOG RESOURCES INC		6. If Indian, Allottee or Tribe Name
3a. Address 1111 BAGBY SKY LOBBY2 HOUSTON, TX 77002		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-686-3689		8. Well Name and No. CABALLO 23 FED 704H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T25S R33E SESW 300FSL 1790FWL 32.109600 N Lat, 103.545876 W Lon		9. API Well No. 30-025-43878-00-X1
		10. Field and Pool or Exploratory Area WC025G09S253336D-UPPER WC
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

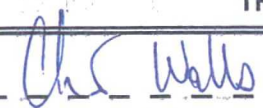
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

EOG Resources requests an amendment to our approved APD for this well to reflect changes in BHL and TVD.

Change BHL to: 2411' FSL & 1779' FWL NWSW-14-25S-33E
Change TVD to: 12342'

14. I hereby certify that the foregoing is true and correct. Electronic Submission #420544 verified by the BLM Well Information System For EOG RESOURCES INC, sent to the Hobbs Committed to AFMSS for processing by CHRISTOPHER WALLS on 05/18/2018 (18CRW0032SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/18/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title SPE	Date 5/18/18
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office CFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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) 748-0720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1720 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 30-025-43878	² Pool Code 98094	³ Pool Name Bobcat Draw; Upper Wolfcamp
⁴ Property Code 38481	⁵ Property Name CABALLO 23 FED	⁶ Well Number #704H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3341'

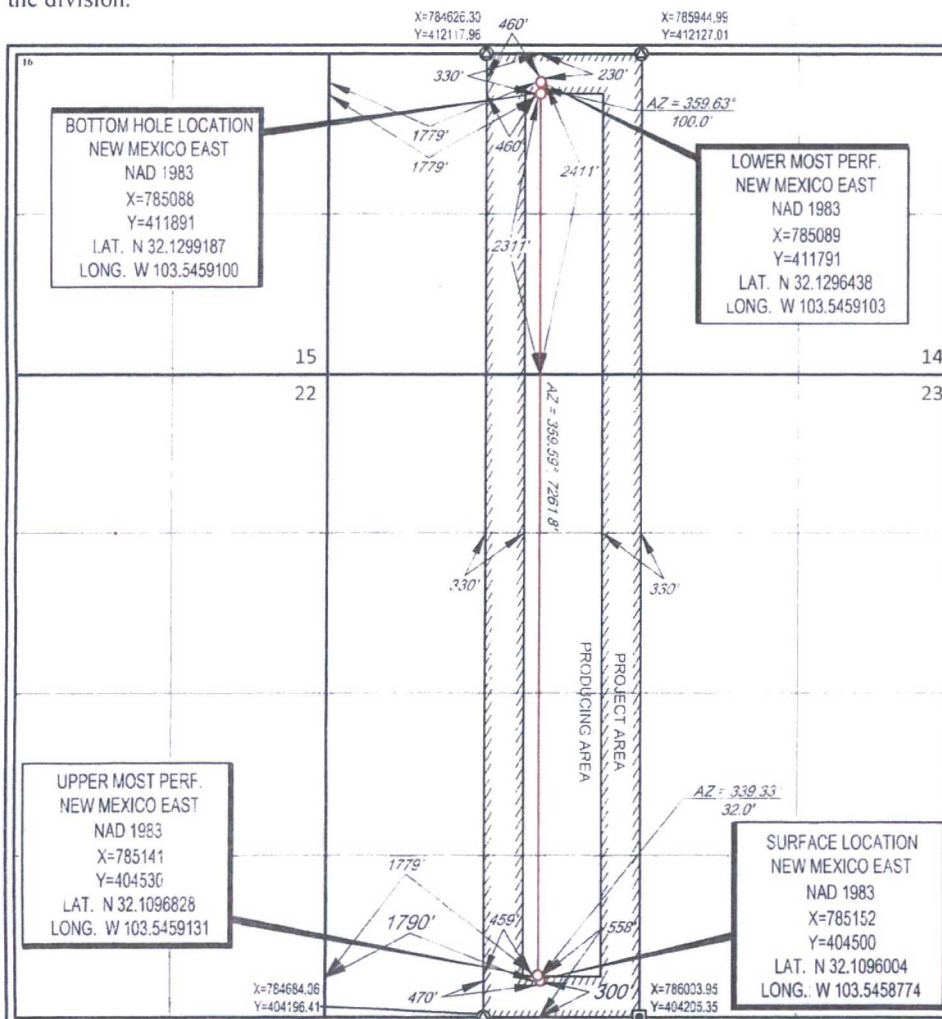
¹⁰Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	23	25-S	33-E	-	300'	SOUTH	1790'	WEST	LEA

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E K	14	25-S	33-E	-	2411'	SOUTH	1779'	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.



¹⁷ OPERATOR 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 released 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 <i>Stan Wagner</i>	Date 5/17/18
Printed Name Stan Wagner	
E-mail Address	
¹⁸ SURVEYOR 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 <i>Michael Brown</i>	
Certificate Number 18329	

Revised Permit Information 5/17/18:

Well Name: Caballo 23 Fed Com No. 704H

Location:

SL: 300' FSL & 1790' FWL, Section 23, T-25-S, R-33-E, Lea Co., N.M.

BHL: 2411' FSL & 1779' 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'-19,800'	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
19,800'	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:

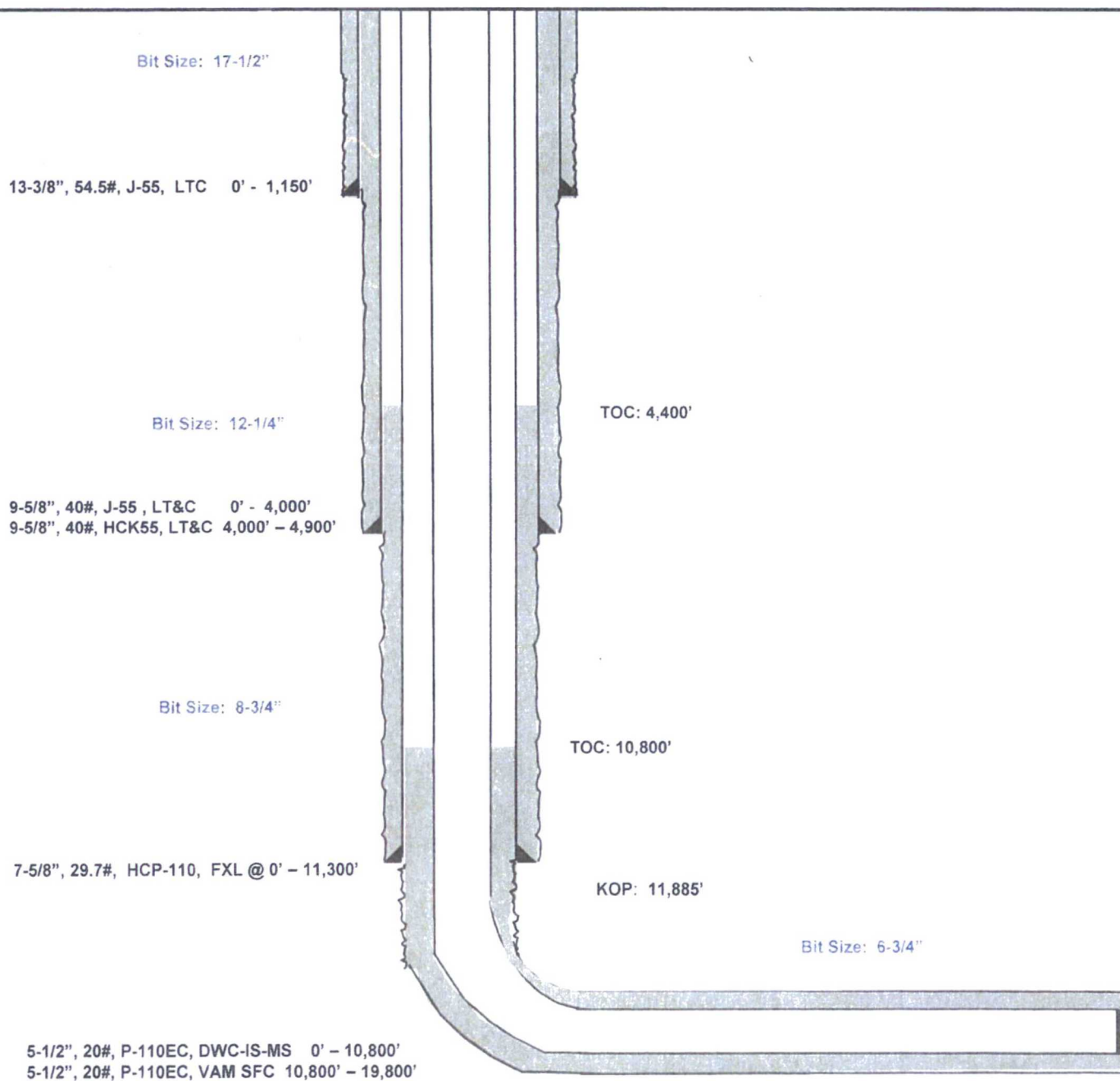
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' - 4,900'	Brine	10.0-10.2	28-34	N/c
4,900' - 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' - 19,800' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Caballo 23 Fed Com #704H
Lea County, New Mexico

300' FSL
1790' FWL
Section 23
T-25-S, R-33-E

Proposed Wellbore
Revised 5/17/18
API: 30-025-43878

KB: 3,366'
GL: 3,341'



Lateral: 19,800' MD, 12,342' TVD
Upper Most Perf:
330' FSL & 1779' FWL Sec. 23
Lower Most Perf:
2311' FSL & 1779' FWL Sec. 14
BH Location: 2411' FSL & 1779' FWL
Section 14
T-25-S, R-33-E



Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com #704H

H&P 379

Plan #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: #704H

Ground Level: 3341.0
KB = 25' @ 3366.04ft (H&P 379)
Northing: 404500.00 Easting: 785152.00
Latitude: 32° 6' 34.565 N Longitude: 103° 32' 45.159 W

SECTION DETAILS

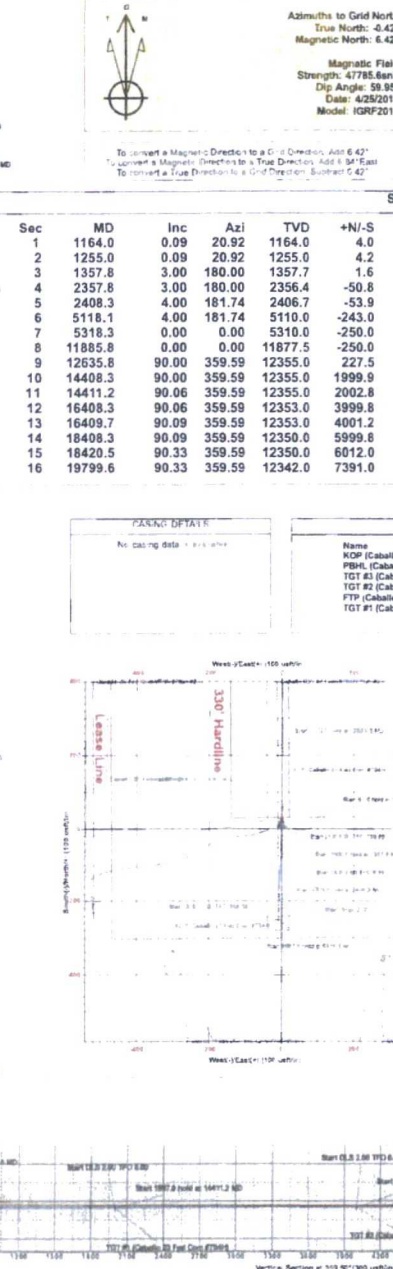
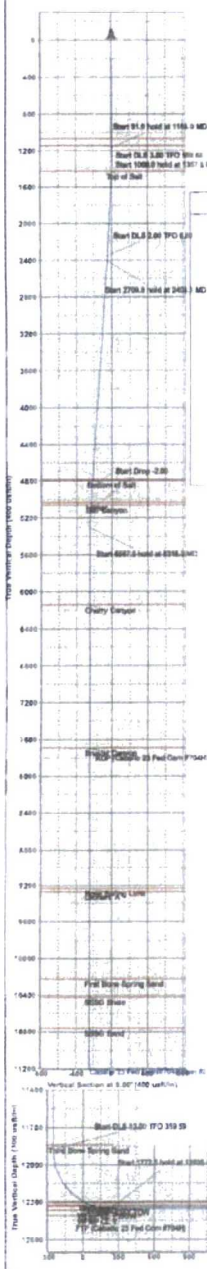
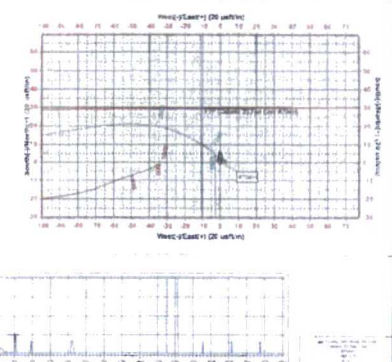
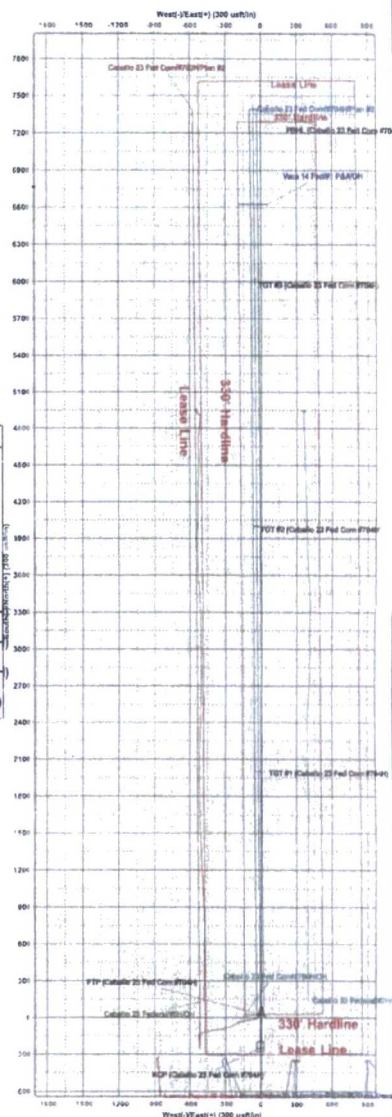
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	1164.0	0.09	20.92	1164.0	4.0	-3.1	0.00	0.00	4.1	
2	1255.0	0.09	20.92	1255.0	4.2	-3.0	0.00	0.00	4.2	
3	1357.8	3.00	180.00	1357.7	1.6	-3.0	3.00	159.68	1.6	
4	2357.8	3.00	180.00	2356.4	-50.8	-3.0	0.00	0.00	-50.8	
5	2408.3	4.00	181.74	2406.7	-53.9	-3.0	2.00	6.89	-53.8	
6	5118.1	4.00	181.74	5110.0	-243.0	-8.8	0.00	0.00	-242.9	
7	5318.3	0.00	0.00	5310.0	-250.0	-9.0	2.00	180.00	-249.9	
8	11885.8	0.00	0.00	11877.5	-250.0	-9.0	0.00	0.00	-249.9	
9	12635.8	90.00	359.59	12355.0	227.5	-12.4	12.00	359.59	227.6	
10	14408.3	90.00	359.59	12355.0	1999.9	-25.2	0.00	0.00	2000.0	TGT #1 (Caballo 23 Fed Com #704H)
11	14411.2	90.06	359.59	12355.0	2002.8	-25.2	2.00	0.00	2003.0	
12	16408.3	90.06	359.59	12353.0	3999.8	-39.6	0.00	0.00	4000.0	TGT #2 (Caballo 23 Fed Com #704H)
13	16409.7	90.09	359.59	12353.0	4001.2	-39.6	2.00	0.00	4001.4	
14	18408.3	90.09	359.59	12350.0	5999.8	-54.0	0.00	0.00	6000.0	TGT #3 (Caballo 23 Fed Com #704H)
15	18420.5	90.33	359.59	12350.0	6012.0	-54.1	2.00	0.00	6012.3	
16	19799.6	90.33	359.59	12342.0	7391.0	-64.0	0.00	0.00	7391.3	PBHL (Caballo 23 Fed Com #704H)

PACING DATA

No casing data - in hole

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Caballo 23 Fed Com #704H)	7693.0	-250.0	-9.0	404250.01	785143.82
PBHL (Caballo 23 Fed Com #704H)	12342.0	7391.0	-64.0	411891.00	785068.00
TGT #1 (Caballo 23 Fed Com #704H)	12350.0	5999.8	-54.0	410499.00	785068.02
TGT #2 (Caballo 23 Fed Com #704H)	12353.0	3999.8	-39.6	408499.00	785112.42
FTP (Caballo 23 Fed Com #704H)	12355.0	30.0	-11.0	404500.00	785141.00
TGT #3 (Caballo 23 Fed Com #704H)	12355.0	1999.9	-25.2	404499.90	785126.82





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com

#704H

73828

ST01

Plan: Plan #2

Standard Planning Report

17 May, 2018





Planning Report



Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Caballo 23 Fed Com
Well: #704H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft (H&P 379)
MD Reference: KB = 25' @ 3366.0usft (H&P 379)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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: #704H

Well Position	+N/-S	-185.0 usft	Northing:	404,500.00 usft	Latitude:	32° 6' 34.565 N
	+E/-W	1,366.0 usft	Easting:	785,152.00 usft	Longitude:	103° 32' 45.159 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,341.0 usft

Wellbore: ST01

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/25/2018	6.84	59.95	47,785.62420439

Design: Plan #2

Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	1,164.0
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Vertical Section:

Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
0.0	0.0	0.0	359.50

Plan Survey Tool Program Date: 5/17/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	1,164.0	19,799.6 Plan #2 (ST01)	MWD	
			OWSG MWD - Standard	



Planning Report



Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County NM (NAD 83 NME)
Site: Caballo 23 Fed Com
Well: #704H
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Local Co-ordinate Reference: Well #704H
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MD Reference: KB = 25' @ 3366.0usft (H&P 379)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
1,164.0	0.09	20.92	1,164.0	4.0	-3.1	0.00	0.00	0.00	0.00	
1,255.0	0.09	20.92	1,255.0	4.2	-3.0	0.00	0.00	0.00	0.00	
1,357.8	3.00	180.00	1,357.7	1.6	-3.0	3.00	2.83	154.74	159.68	
2,357.8	3.00	180.00	2,356.4	-50.8	-3.0	0.00	0.00	0.00	0.00	
2,408.3	4.00	181.74	2,406.7	-53.9	-3.0	2.00	1.99	3.44	6.89	
5,118.1	4.00	181.74	5,110.0	-243.0	-8.8	0.00	0.00	0.00	0.00	
5,318.3	0.00	0.00	5,310.0	-250.0	-9.0	2.00	-2.00	0.00	180.00	
11,885.8	0.00	0.00	11,877.5	-250.0	-9.0	0.00	0.00	0.00	0.00	
12,635.6	90.00	359.59	12,355.0	227.5	-12.4	12.00	12.00	-0.06	359.59	
14,408.3	90.00	359.59	12,355.0	1,999.9	-25.2	0.00	0.00	0.00	0.00	TGT #1 (Caballo 23 F
14,411.2	90.06	359.59	12,355.0	2,002.8	-25.2	2.00	2.00	0.00	0.00	
16,408.3	90.06	359.59	12,353.0	3,999.8	-39.6	0.00	0.00	0.00	0.00	TGT #2 (Caballo 23 F
16,409.7	90.09	359.59	12,353.0	4,001.2	-39.6	2.00	2.00	0.00	0.00	
18,408.3	90.09	359.59	12,350.0	5,999.8	-54.0	0.00	0.00	0.00	0.00	TGT #3 (Caballo 23 F
18,420.5	90.33	359.59	12,350.0	6,012.0	-54.1	2.00	2.00	0.00	0.00	
19,799.6	90.33	359.59	12,342.0	7,391.0	-64.0	0.00	0.00	0.00	0.00	PBHL (Caballo 23 Fer



Planning Report



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Company: EOG Resources - Midland
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Site: Caballo 23 Fed Com
Well: #704H
Wellbore: ST01
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TVD Reference: KB = 25' @ 3366.0usft (H&P 379)
MD Reference: KB = 25' @ 3366.0usft (H&P 379)
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
133.0	0.62	28.01	133.0	0.6	0.3	0.6	0.47	0.47	0.00
282.0	1.19	308.94	282.0	2.3	-0.5	2.3	0.83	0.38	-53.07
409.0	0.40	303.35	409.0	3.4	-1.9	3.4	0.62	-0.62	-4.40
536.0	0.40	295.55	536.0	3.8	-2.7	3.8	0.04	0.00	-6.14
663.0	0.09	302.73	663.0	4.1	-3.1	4.1	0.24	-0.24	5.65
790.0	0.09	223.23	790.0	4.1	-3.3	4.1	0.09	0.00	-62.60
917.0	0.09	142.15	917.0	3.9	-3.3	3.9	0.09	0.00	-63.84
1,045.0	0.09	54.15	1,045.0	3.9	-3.2	3.9	0.10	0.00	-68.75
1,106.0	0.09	20.92	1,106.0	4.0	-3.1	4.0	0.08	0.00	-54.48
1,164.0	0.09	20.92	1,164.0	4.0	-3.1	4.1	0.00	0.00	0.00
1,200.0	0.09	20.92	1,200.0	4.1	-3.0	4.1	0.00	0.00	0.00
1,255.0	0.09	20.92	1,255.0	4.2	-3.0	4.2	0.00	0.00	0.00
1,300.0	1.27	179.18	1,300.0	3.7	-3.0	3.7	3.00	2.61	351.69
1,357.8	3.00	180.00	1,357.7	1.6	-3.0	1.6	3.00	3.00	1.42
1,400.0	3.00	180.00	1,399.9	-0.7	-3.0	-0.6	0.00	0.00	0.00
1,430.2	3.00	180.00	1,430.0	-2.2	-3.0	-2.2	0.00	0.00	0.00
Top of Salt									
1,500.0	3.00	180.00	1,499.7	-5.9	-3.0	-5.9	0.00	0.00	0.00
1,600.0	3.00	180.00	1,599.6	-11.1	-3.0	-11.1	0.00	0.00	0.00
1,700.0	3.00	180.00	1,699.4	-16.4	-3.0	-16.3	0.00	0.00	0.00
1,800.0	3.00	180.00	1,799.3	-21.6	-3.0	-21.6	0.00	0.00	0.00
1,900.0	3.00	180.00	1,899.2	-26.8	-3.0	-26.8	0.00	0.00	0.00
2,000.0	3.00	180.00	1,999.0	-32.1	-3.0	-32.0	0.00	0.00	0.00
2,100.0	3.00	180.00	2,098.9	-37.3	-3.0	-37.3	0.00	0.00	0.00
2,200.0	3.00	180.00	2,198.8	-42.5	-3.0	-42.5	0.00	0.00	0.00
2,300.0	3.00	180.00	2,298.6	-47.8	-3.0	-47.7	0.00	0.00	0.00
2,357.8	3.00	180.00	2,356.4	-50.8	-3.0	-50.8	0.00	0.00	0.00
2,408.3	4.00	181.74	2,406.7	-53.9	-3.0	-53.8	2.00	1.99	3.44
2,500.0	4.00	181.74	2,498.2	-60.3	-3.2	-60.2	0.00	0.00	0.00
2,600.0	4.00	181.74	2,598.0	-67.2	-3.4	-67.2	0.00	0.00	0.00
2,700.0	4.00	181.74	2,697.7	-74.2	-3.7	-74.2	0.00	0.00	0.00
2,800.0	4.00	181.74	2,797.5	-81.2	-3.9	-81.2	0.00	0.00	0.00
2,900.0	4.00	181.74	2,897.3	-88.2	-4.1	-88.1	0.00	0.00	0.00
3,000.0	4.00	181.74	2,997.0	-95.2	-4.3	-95.1	0.00	0.00	0.00
3,100.0	4.00	181.74	3,096.8	-102.1	-4.5	-102.1	0.00	0.00	0.00
3,200.0	4.00	181.74	3,196.5	-109.1	-4.7	-109.1	0.00	0.00	0.00
3,300.0	4.00	181.74	3,296.3	-116.1	-4.9	-116.1	0.00	0.00	0.00
3,400.0	4.00	181.74	3,396.0	-123.1	-5.1	-123.0	0.00	0.00	0.00
3,500.0	4.00	181.74	3,495.8	-130.1	-5.3	-130.0	0.00	0.00	0.00
3,600.0	4.00	181.74	3,595.5	-137.0	-5.6	-137.0	0.00	0.00	0.00
3,700.0	4.00	181.74	3,695.3	-144.0	-5.8	-144.0	0.00	0.00	0.00
3,800.0	4.00	181.74	3,795.1	-151.0	-6.0	-150.9	0.00	0.00	0.00
3,900.0	4.00	181.74	3,894.8	-158.0	-6.2	-157.9	0.00	0.00	0.00
4,000.0	4.00	181.74	3,994.6	-165.0	-6.4	-164.9	0.00	0.00	0.00
4,100.0	4.00	181.74	4,094.3	-171.9	-6.6	-171.9	0.00	0.00	0.00
4,200.0	4.00	181.74	4,194.1	-178.9	-6.8	-178.9	0.00	0.00	0.00
4,300.0	4.00	181.74	4,293.8	-185.9	-7.0	-185.8	0.00	0.00	0.00
4,400.0	4.00	181.74	4,393.6	-192.9	-7.2	-192.8	0.00	0.00	0.00
4,500.0	4.00	181.74	4,493.3	-199.9	-7.5	-199.8	0.00	0.00	0.00
4,600.0	4.00	181.74	4,593.1	-206.8	-7.7	-206.8	0.00	0.00	0.00
4,700.0	4.00	181.74	4,692.9	-213.8	-7.9	-213.7	0.00	0.00	0.00
4,797.4	4.00	181.74	4,790.0	-220.6	-8.1	-220.5	0.00	0.00	0.00
Bottom of Salt									



Planning Report



Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Caballo 23 Fed Com
Well: #704H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft (H&P 379)
MD Reference: KB = 25' @ 3366.0usft (H&P 379)
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)
4,800.0	4.00	181.74	4,792.6	-220.8	-8.1	-220.7	0.00	0.00	0.00
4,900.0	4.00	181.74	4,892.4	-227.8	-8.3	-227.7	0.00	0.00	0.00
5,000.0	4.00	181.74	4,992.1	-234.8	-8.5	-234.7	0.00	0.00	0.00
5,044.0	4.00	181.74	5,036.0	-237.8	-8.6	-237.7	0.00	0.00	0.00
Lamar									
5,073.1	4.00	181.74	5,065.0	-239.9	-8.7	-239.8	0.00	0.00	0.00
Bell Canyon									
5,100.0	4.00	181.74	5,091.9	-241.7	-8.7	-241.7	0.00	0.00	0.00
5,118.1	4.00	181.74	5,110.0	-243.0	-8.8	-242.9	0.00	0.00	0.00
5,200.0	2.37	181.74	5,191.7	-247.5	-8.9	-247.5	2.00	-2.00	0.00
5,300.0	0.37	181.74	5,291.7	-249.9	-9.0	-249.8	2.00	-2.00	0.00
5,318.3	0.00	0.00	5,310.0	-250.0	-9.0	-249.9	2.00	-2.00	0.00
5,400.0	0.00	0.00	5,391.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,491.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,591.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,691.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,791.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,891.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,991.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,100.0	0.00	0.00	6,091.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,154.3	0.00	0.00	6,146.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
Cherry Canyon									
6,200.0	0.00	0.00	6,191.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,291.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,400.0	0.00	0.00	6,391.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,491.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,591.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,691.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,791.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,891.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,000.0	0.00	0.00	6,991.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,100.0	0.00	0.00	7,091.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,191.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,291.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,391.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,491.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,591.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,691.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,701.3	0.00	0.00	7,693.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
Brushy Canyon									
7,800.0	0.00	0.00	7,791.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,891.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,991.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,100.0	0.00	0.00	8,091.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,191.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,291.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,391.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,491.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,591.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,691.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,791.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,891.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,991.7	-250.0	-9.0	-249.9	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Caballo 23 Fed Com
Well: #704H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft (H&P 379)
MD Reference: KB = 25' @ 3366.0usft (H&P 379)
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)
9,100.0	0.00	0.00	9,091.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,191.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,243.3	0.00	0.00	9,235.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
Bone Spring Lime									
9,281.3	0.00	0.00	9,273.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
Leonard A									
9,300.0	0.00	0.00	9,291.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,391.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,491.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,591.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,691.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,791.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,891.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,000.0	0.00	0.00	9,991.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,100.0	0.00	0.00	10,091.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,191.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,234.3	0.00	0.00	10,226.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
First Bone Spring Sand									
10,300.0	0.00	0.00	10,291.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,391.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,430.3	0.00	0.00	10,422.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
SBSG Shale									
10,500.0	0.00	0.00	10,491.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,591.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,691.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,770.3	0.00	0.00	10,762.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
SBSG Sand									
10,800.0	0.00	0.00	10,791.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,891.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,991.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,091.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,191.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,253.3	0.00	0.00	11,245.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
Third Bone Spring Carb									
11,300.0	0.00	0.00	11,291.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,400.0	0.00	0.00	11,391.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,500.0	0.00	0.00	11,491.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,600.0	0.00	0.00	11,591.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,700.0	0.00	0.00	11,691.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,800.0	0.00	0.00	11,791.7	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,853.3	0.00	0.00	11,845.0	-250.0	-9.0	-249.9	0.00	0.00	0.00
Third Bone Spring Sand									
11,885.8	0.00	0.00	11,877.5	-250.0	-9.0	-249.9	0.00	0.00	0.00
11,900.0	1.70	359.59	11,891.7	-249.8	-9.0	-249.7	12.00	12.00	0.00
11,925.0	4.70	359.59	11,916.6	-248.4	-9.0	-248.3	12.00	12.00	0.00
11,950.0	7.70	359.59	11,941.5	-245.7	-9.0	-245.6	12.00	12.00	0.00
11,975.0	10.70	359.59	11,966.2	-241.7	-9.0	-241.6	12.00	12.00	0.00
12,000.0	13.70	359.59	11,990.6	-236.4	-9.1	-236.3	12.00	12.00	0.00
12,025.0	16.70	359.59	12,014.7	-229.8	-9.1	-229.8	12.00	12.00	0.00
12,050.0	19.70	359.59	12,038.5	-222.0	-9.2	-222.0	12.00	12.00	0.00
12,075.0	22.70	359.59	12,061.8	-213.0	-9.2	-212.9	12.00	12.00	0.00
12,100.0	25.70	359.59	12,084.6	-202.8	-9.3	-202.7	12.00	12.00	0.00
12,125.0	28.70	359.59	12,106.8	-191.3	-9.4	-191.2	12.00	12.00	0.00



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,150.0	31.70	359.59	12,128.4	-178.8	-9.5	-178.7	12.00	12.00	0.00
12,175.0	34.70	359.59	12,149.3	-165.1	-9.6	-165.0	12.00	12.00	0.00
12,200.0	37.70	359.59	12,169.5	-150.3	-9.7	-150.2	12.00	12.00	0.00
12,225.0	40.70	359.59	12,188.9	-134.5	-9.8	-134.4	12.00	12.00	0.00
12,250.0	43.70	359.59	12,207.4	-117.7	-9.9	-117.6	12.00	12.00	0.00
12,275.0	46.70	359.59	12,225.0	-100.0	-10.1	-99.9	12.00	12.00	0.00
12,300.0	49.70	359.59	12,241.7	-81.3	-10.2	-81.3	12.00	12.00	0.00
12,325.0	52.70	359.59	12,257.3	-61.9	-10.3	-61.8	12.00	12.00	0.00
12,350.0	55.70	359.59	12,271.9	-41.6	-10.5	-41.5	12.00	12.00	0.00
12,375.0	58.70	359.59	12,285.5	-20.6	-10.6	-20.5	12.00	12.00	0.00
12,400.0	61.70	359.59	12,297.9	1.1	-10.8	1.2	12.00	12.00	0.00
12,413.3	63.29	359.59	12,304.0	12.9	-10.9	13.0	12.00	12.00	0.00
Wolfcamp									
12,425.0	64.70	359.59	12,309.2	23.4	-10.9	23.5	12.00	12.00	0.00
12,450.0	67.70	359.59	12,319.3	46.3	-11.1	46.4	12.00	12.00	0.00
12,475.0	70.70	359.59	12,328.1	69.7	-11.3	69.8	12.00	12.00	0.00
12,484.3	71.82	359.59	12,331.1	78.5	-11.3	78.6	12.00	12.00	0.00
WFMP CL X									
12,500.0	73.70	359.59	12,335.6	93.5	-11.5	93.6	12.00	12.00	0.00
12,525.0	76.70	359.59	12,342.2	117.6	-11.6	117.7	12.00	12.00	0.00
12,525.2	76.70	359.59	12,342.2	117.8	-11.6	117.9	0.00	0.00	0.00
WFMP CL X TOW									
12,550.0	79.70	359.59	12,347.3	142.1	-11.8	142.2	12.09	12.09	0.00
12,575.0	82.70	359.59	12,351.1	166.8	-12.0	166.9	12.00	12.00	0.00
12,600.0	85.70	359.59	12,353.6	191.7	-12.2	191.8	12.00	12.00	0.00
12,625.0	88.70	359.59	12,354.8	216.6	-12.3	216.7	12.00	12.00	0.00
12,635.8	90.00	359.59	12,355.0	227.5	-12.4	227.6	12.00	12.00	0.00
12,700.0	90.00	359.59	12,355.0	291.6	-12.9	291.7	0.00	0.00	0.00
12,800.0	90.00	359.59	12,355.0	391.6	-13.6	391.7	0.00	0.00	0.00
12,900.0	90.00	359.59	12,355.0	491.6	-14.3	491.7	0.00	0.00	0.00
13,000.0	90.00	359.59	12,355.0	591.6	-15.0	591.7	0.00	0.00	0.00
13,100.0	90.00	359.59	12,355.0	691.6	-15.8	691.7	0.00	0.00	0.00
13,200.0	90.00	359.59	12,355.0	791.6	-16.5	791.7	0.00	0.00	0.00
13,300.0	90.00	359.59	12,355.0	891.6	-17.2	891.7	0.00	0.00	0.00
13,400.0	90.00	359.59	12,355.0	991.6	-17.9	991.7	0.00	0.00	0.00
13,500.0	90.00	359.59	12,355.0	1,091.6	-18.6	1,091.7	0.00	0.00	0.00
13,600.0	90.00	359.59	12,355.0	1,191.6	-19.4	1,191.7	0.00	0.00	0.00
13,700.0	90.00	359.59	12,355.0	1,291.6	-20.1	1,291.7	0.00	0.00	0.00
13,800.0	90.00	359.59	12,355.0	1,391.6	-20.8	1,391.7	0.00	0.00	0.00
13,900.0	90.00	359.59	12,355.0	1,491.6	-21.5	1,491.7	0.00	0.00	0.00
14,000.0	90.00	359.59	12,355.0	1,591.6	-22.2	1,591.7	0.00	0.00	0.00
14,100.0	90.00	359.59	12,355.0	1,691.6	-23.0	1,691.7	0.00	0.00	0.00
14,200.0	90.00	359.59	12,355.0	1,791.6	-23.7	1,791.7	0.00	0.00	0.00
14,300.0	90.00	359.59	12,355.0	1,891.6	-24.4	1,891.7	0.00	0.00	0.00
14,408.3	90.00	359.59	12,355.0	1,999.9	-25.2	2,000.0	0.00	0.00	0.00
14,411.2	90.06	359.59	12,355.0	2,002.8	-25.2	2,003.0	2.00	2.00	0.00
14,500.0	90.06	359.59	12,354.9	2,091.6	-25.8	2,091.7	0.00	0.00	0.00
14,600.0	90.06	359.59	12,354.8	2,191.6	-26.6	2,191.7	0.00	0.00	0.00
14,700.0	90.06	359.59	12,354.7	2,291.6	-27.3	2,291.7	0.00	0.00	0.00
14,800.0	90.06	359.59	12,354.6	2,391.6	-28.0	2,391.7	0.00	0.00	0.00
14,900.0	90.06	359.59	12,354.5	2,491.6	-28.7	2,491.7	0.00	0.00	0.00
15,000.0	90.06	359.59	12,354.4	2,591.6	-29.4	2,591.7	0.00	0.00	0.00
15,100.0	90.06	359.59	12,354.3	2,691.6	-30.2	2,691.7	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: #704H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft (H&P 379)
MD Reference: KB = 25' @ 3366.0usft (H&P 379)
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)
15,200.0	90.06	359.59	12,354.2	2,791.6	-30.9	2,791.7	0.00	0.00	0.00
15,300.0	90.06	359.59	12,354.1	2,891.6	-31.6	2,891.7	0.00	0.00	0.00
15,400.0	90.06	359.59	12,354.0	2,991.6	-32.3	2,991.7	0.00	0.00	0.00
15,500.0	90.06	359.59	12,353.9	3,091.6	-33.0	3,091.7	0.00	0.00	0.00
15,600.0	90.06	359.59	12,353.8	3,191.6	-33.8	3,191.7	0.00	0.00	0.00
15,700.0	90.06	359.59	12,353.7	3,291.6	-34.5	3,291.7	0.00	0.00	0.00
15,800.0	90.06	359.59	12,353.6	3,391.6	-35.2	3,391.7	0.00	0.00	0.00
15,900.0	90.06	359.59	12,353.5	3,491.6	-35.9	3,491.7	0.00	0.00	0.00
16,000.0	90.06	359.59	12,353.4	3,591.6	-36.6	3,591.7	0.00	0.00	0.00
16,100.0	90.06	359.59	12,353.3	3,691.5	-37.4	3,691.7	0.00	0.00	0.00
16,200.0	90.06	359.59	12,353.2	3,791.5	-38.1	3,791.7	0.00	0.00	0.00
16,300.0	90.06	359.59	12,353.1	3,891.5	-38.8	3,891.7	0.00	0.00	0.00
16,408.3	90.06	359.59	12,353.0	3,999.8	-39.6	4,000.0	0.00	0.00	0.00
16,409.7	90.09	359.59	12,353.0	4,001.2	-39.6	4,001.4	2.00	2.00	0.00
16,500.0	90.09	359.59	12,352.9	4,091.5	-40.2	4,091.7	0.00	0.00	0.00
16,600.0	90.09	359.59	12,352.7	4,191.5	-41.0	4,191.7	0.00	0.00	0.00
16,700.0	90.09	359.59	12,352.6	4,291.5	-41.7	4,291.7	0.00	0.00	0.00
16,800.0	90.09	359.59	12,352.4	4,391.5	-42.4	4,391.7	0.00	0.00	0.00
16,900.0	90.09	359.59	12,352.3	4,491.5	-43.1	4,491.7	0.00	0.00	0.00
17,000.0	90.09	359.59	12,352.1	4,591.5	-43.8	4,591.7	0.00	0.00	0.00
17,100.0	90.09	359.59	12,352.0	4,691.5	-44.6	4,691.7	0.00	0.00	0.00
17,200.0	90.09	359.59	12,351.8	4,791.5	-45.3	4,791.7	0.00	0.00	0.00
17,300.0	90.09	359.59	12,351.7	4,891.5	-46.0	4,891.7	0.00	0.00	0.00
17,400.0	90.09	359.59	12,351.5	4,991.5	-46.7	4,991.7	0.00	0.00	0.00
17,500.0	90.09	359.59	12,351.4	5,091.5	-47.4	5,091.7	0.00	0.00	0.00
17,600.0	90.09	359.59	12,351.2	5,191.5	-48.2	5,191.7	0.00	0.00	0.00
17,700.0	90.09	359.59	12,351.1	5,291.5	-48.9	5,291.7	0.00	0.00	0.00
17,800.0	90.09	359.59	12,350.9	5,391.5	-49.6	5,391.7	0.00	0.00	0.00
17,900.0	90.09	359.59	12,350.8	5,491.5	-50.3	5,491.7	0.00	0.00	0.00
18,000.0	90.09	359.59	12,350.6	5,591.5	-51.0	5,591.7	0.00	0.00	0.00
18,100.0	90.09	359.59	12,350.5	5,691.5	-51.8	5,691.7	0.00	0.00	0.00
18,200.0	90.09	359.59	12,350.3	5,791.5	-52.5	5,791.7	0.00	0.00	0.00
18,300.0	90.09	359.59	12,350.2	5,891.5	-53.2	5,891.7	0.00	0.00	0.00
18,408.3	90.09	359.59	12,350.0	5,999.8	-54.0	6,000.0	0.00	0.00	0.00
18,420.5	90.33	359.59	12,350.0	6,012.0	-54.1	6,012.3	2.00	2.00	0.00
18,500.0	90.33	359.59	12,349.5	6,091.5	-54.6	6,091.7	0.00	0.00	0.00
18,600.0	90.33	359.59	12,348.9	6,191.5	-55.4	6,191.7	0.00	0.00	0.00
18,700.0	90.33	359.59	12,348.3	6,291.5	-56.1	6,291.7	0.00	0.00	0.00
18,800.0	90.33	359.59	12,347.8	6,391.5	-56.8	6,391.7	0.00	0.00	0.00
18,900.0	90.33	359.59	12,347.2	6,491.5	-57.5	6,491.7	0.00	0.00	0.00
19,000.0	90.33	359.59	12,346.6	6,591.5	-58.2	6,591.7	0.00	0.00	0.00
19,100.0	90.33	359.59	12,346.0	6,691.5	-58.0	6,691.7	0.00	0.00	0.00
19,200.0	90.33	359.59	12,345.5	6,791.5	-59.7	6,791.7	0.00	0.00	0.00
19,300.0	90.33	359.59	12,344.9	6,891.4	-60.4	6,891.7	0.00	0.00	0.00
19,400.0	90.33	359.59	12,344.3	6,991.4	-61.1	6,991.7	0.00	0.00	0.00
19,500.0	90.33	359.59	12,343.7	7,091.4	-61.8	7,091.7	0.00	0.00	0.00
19,600.0	90.33	359.59	12,343.2	7,191.4	-62.6	7,191.7	0.00	0.00	0.00
19,700.0	90.33	359.59	12,342.6	7,291.4	-63.3	7,291.7	0.00	0.00	0.00
19,799.6	90.33	359.59	12,342.0	7,391.0	-64.0	7,391.3	0.00	0.00	0.00

Database: EDM 5000.14
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 Site: Caballo 23 Fed Com
 Well: #704H
 Wellbore: ST01
 Design: Plan #2

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3366.0usft (H&P 379)
 MD Reference: KB = 25' @ 3366.0usft (H&P 379)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Caballo 23 Fed Co - plan hits target center - Polygon Point 1 Point 2 Point 3 Point 4	0.00	0.00	7,693.0	-250.0	-9.0	404,250.01	785,143.02	32° 6' 32.092 N	103° 32' 45.284 W
PBHL (Caballo 23 Fed C - plan hits target center - Rectangle (sides W60.0 H0.0 D7 362.0)	90.00	359.58	12,342.0	7,391.0	-64.0	411,891.00	785,088.00	32° 7' 47.706 N	103° 32' 45.275 W
TGT #3 (Caballo 23 Fed - plan hits target center - Point	0.00	0.00	12,350.0	5,999.8	-54.0	410,499.80	785,098.02	32° 7' 33.939 N	103° 32' 45.276 W
TGT #2 (Caballo 23 Fed - plan hits target center - Point	0.00	0.00	12,353.0	3,999.8	-39.6	408,499.80	785,112.42	32° 7' 14.147 N	103° 32' 45.279 W
FTP (Caballo 23 Fed Co - plan misses target center by 39.3usft at 12449.5usft MD (12319.1 TVD, 45.8 N, -11.1 E) - Point	0.00	0.00	12,355.0	30.0	-11.0	404,530.00	785,141.00	32° 6' 34.863 N	103° 32' 45.284 W
TGT #1 (Caballo 23 Fed - plan hits target center - Point	0.00	0.00	12,355.0	1,999.9	-25.2	406,499.90	785,126.82	32° 6' 54.357 N	103° 32' 45.281 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,071.0	1,071.0	Rustler			
1,145.0	1,145.0	Tamarisk Anhydrite			
1,430.2	1,430.0	Top of Salt			
4,797.4	4,790.0	Bottom of Salt			
5,044.0	5,036.0	Lamar			
5,073.1	5,065.0	Bell Canyon			
6,154.3	6,146.0	Cherry Canyon			
7,701.3	7,693.0	Brushy Canyon			
9,243.3	9,235.0	Bone Spring Lime			
9,281.3	9,273.0	Leonard A			
10,234.3	10,226.0	First Bone Spring Sand			
10,430.3	10,422.0	SBSG Shale			
10,770.3	10,762.0	SBSG Sand			
11,253.3	11,245.0	Third Bone Spring Carb			
11,853.3	11,845.0	Third Bone Spring Sand			
12,413.3	12,304.0	Wolfcamp		0.10	
12,484.3	12,331.1	WFMP CL X		0.10	
12,525.2	12,342.2	WFMP CL X TOW		0.10	