

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.*Lease Serial No.
NMNM108503

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. CABALLO 23 FED 704H	
2. Name of Operator EOG RESOURCES INC		9. API Well No. 30-025-43878-00-X1	
3a. Address 1111 BAGBY SKY LOBBY2 HOUSTON, TX 77002		3b. Phone No. (include area code) Ph: 432-686-3689	
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		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 Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recompletion 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 the following changes to the drilling plan for this well:

Currently on the subject well we have the following.

1. 13-3/8" surface casing set at 1155' (TOC @ surface)
2. 12-1/4" open hole from 1155' to TD @ 2684'.

We have decided to plug this well back due to building too much inclination in the 12-1/4" hole section (17* inclination).

The plan is to place two cement plugs from 2684' to ?1055'.
The first plug will be 13.5 ppg class C + 10% salt + 4% gel (1.86 yld) from TD to ?1870'.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #412614 verified by the BLM Well Information System For EOG RESOURCES INC, sent to the Hobbs Committed to AFMSS for processing by MUSTAFA HAQUE on 05/01/2018 (18MH0051SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/27/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>MUSTAFA HAQUE</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>05/01/2018</u>
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 <u>Hobbs</u>

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 ****

Additional data for EC transaction #412614 that would not fit on the form

32. Additional remarks, continued

After setting plug no. 1 we will PU and circ 4-6 hours. Then tag TOC.
Plug No. 2 will be from TOC on plug no. 1 to ?1055'. Plug No. 2 will be 14.8 ppg class C + 10% salt + 0.2% retarder (1.40 yld)

After setting plug No. 2 we will TOH. ND BOPs and install wellhead cap.
Then we will RDMO Cartel Rig 18 and move it to the Caballo 23 Fed Com 701H and 702H location.

Within ?3 weeks we will be moving H&P Rig No. 379 back onto this pad to drill the 703H and 704H wells.



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com

#704H

ST01

Plan #1

Anticollision Report

27 April, 2018



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Reference Site: Caballo 23 Fed Com
Site Error: 0.0 usft
Reference Well: #704H
Well Error: 0.0 usft
Reference Wellbore: ST01
Reference Design: Plan #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Reference	Plan #1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 500.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	4/25/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
133.0	1,164.0	Cartel 41 8' KB +17' (OH)	MWD	OWSG MWD - Standard	
1,164.0	19,849.1	Plan #1 (ST01)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Caballo 23 Fed Com						
#703H - OH - OH	660.3	661.3	30.9	26.3	6.767 CC	
#703H - OH - OH	1,164.0	1,164.9	32.8	24.6	4.000 ES	
#703H - OH - OH	1,200.0	1,200.8	33.0	24.7	3.966 SF	
#703H - OH - Salt String	660.3	661.3	30.9	26.3	6.767 CC	
#703H - OH - Salt String	19,849.1	19,854.7	280.0	-97.1	0.743 Level 1, ES, SF	
#704H - OH - OH	1,500.0	1,499.5	13.6	13.1	23.723 CC, ES	
#704H - OH - OH	2,000.0	1,996.0	57.9	55.2	21.559 SF	

Offset Design Caballo 23 Fed Com - #703H - OH - OH														Offset Site Error:	0.0 usft
Survey Program: 133-MWD, 1188-MWD														Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis			Distance			Minimum Separation			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	1.0	1.0	0.0	0.0	-91.64	-1.0	-35.0	35.0						
133.0	133.0	134.0	134.0	0.2	0.2	-120.79	-1.1	-34.9	35.3	34.9	0.44	80.718			
282.0	282.0	283.2	283.2	0.8	0.9	-44.95	-1.2	-34.5	34.2	32.5	1.61	21.268			
409.0	409.0	410.0	410.0	1.4	1.4	-41.66	-1.3	-34.0	32.5	29.9	2.59	12.528			
536.0	536.0	537.1	537.1	1.9	1.9	-34.83	-1.2	-33.7	31.4	27.8	3.60	8.744			
660.3	660.3	661.3	661.3	2.4	2.4	-41.87	-1.2	-33.5	30.9	26.3	4.56	6.767 CC			
663.0	663.0	663.9	663.9	2.5	2.4	-42.50	-1.2	-33.5	30.9	26.3	4.58	6.736			
790.0	790.0	790.7	790.7	3.0	2.9	36.46	-1.6	-34.2	31.4	25.9	5.54	5.669			
917.0	917.0	917.9	917.9	3.5	3.4	117.39	-1.9	-34.9	32.2	25.7	6.50	4.951			
1,045.0	1,045.0	1,046.0	1,046.0	4.0	3.9	-154.36	-1.9	-35.2	32.5	25.1	7.45	4.368			
1,106.0	1,106.0	1,106.9	1,106.9	4.2	4.2	-121.31	-1.9	-35.2	32.6	24.8	7.88	4.143			
1,164.0	1,164.0	1,164.9	1,164.9	4.4	4.3	-121.18	-1.8	-35.4	32.8	24.6	8.21	4.000 ES			
1,200.0	1,200.0	1,200.8	1,200.8	4.5	4.3	-120.86	-1.6	-35.6	33.0	24.7	8.32	3.966 SF			
1,255.0	1,255.0	1,255.5	1,255.5	4.5	4.4	-120.96	-1.7	-36.1	33.6	25.2	8.35	4.023			
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.4	70.48	-2.2	-36.8	34.3	25.9	8.38	4.086			
1,357.9	1,357.9	1,357.5	1,357.4	4.6	4.4	72.16	-3.2	-38.6	35.5	27.0	8.45	4.201			
1,400.0	1,399.9	1,398.9	1,398.7	4.6	4.5	74.46	-4.0	-40.5	36.9	28.4	8.50	4.336			
1,500.0	1,499.7	1,496.6	1,496.1	4.7	4.6	78.64	-6.5	-48.3	43.8	35.1	8.70	5.031			
1,600.0	1,599.6	1,595.5	1,594.3	4.9	4.8	80.12	-10.5	-59.4	54.1	45.1	9.00	6.012			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Project: Lea County, NM (NAD 83 NME)
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Reference Well: #704H
Well Error: 0.0 usft
Reference Wellbore: ST01
Reference Design: Plan #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Offset Design Caballo 23 Fed Com - #703H - OH - OH												Offset Site Error:	0.0 usft
Survey Program: 133-MWD, 1188-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
1,700.0	1,699.5	1,694.9	1,693.0	5.0	5.0	80.89	-14.7	-70.4	64.3	55.0	9.36	6.872	
1,800.0	1,799.3	1,792.7	1,789.9	5.2	5.3	82.23	-17.7	-82.9	76.2	66.5	9.78	7.796	
1,900.0	1,899.2	1,890.8	1,887.0	5.5	5.6	83.86	-19.7	-97.2	90.1	79.8	10.27	8.773	
2,000.0	1,999.0	1,990.5	1,985.6	5.7	5.9	85.38	-21.1	-111.6	103.8	93.0	10.81	9.604	
2,100.0	2,098.9	2,090.6	2,084.8	6.0	6.3	86.62	-22.5	-125.3	116.9	105.5	11.40	10.252	
2,200.0	2,198.8	2,191.0	2,184.3	6.3	6.6	87.29	-24.7	-138.2	129.1	117.1	12.01	10.748	
2,300.0	2,298.6	2,290.3	2,282.8	6.5	7.0	87.77	-27.2	-150.5	140.9	128.2	12.66	11.129	
2,357.9	2,356.5	2,348.4	2,340.5	6.8	7.3	88.08	-28.5	-157.6	147.6	134.6	13.05	11.315	
2,400.0	2,398.5	2,391.3	2,383.1	6.9	7.4	72.81	-29.5	-162.6	152.0	138.6	13.33	11.396	
2,500.0	2,498.3	2,492.8	2,484.0	7.3	7.8	46.31	-32.2	-173.4	158.7	144.7	13.99	11.340	
2,600.0	2,597.9	2,591.1	2,581.6	7.6	8.3	31.88	-36.5	-184.2	162.1	147.5	14.62	11.088	
2,638.1	2,635.8	2,628.6	2,618.7	7.7	8.4	28.02	-38.8	-188.7	162.8	147.9	14.86	10.952	
2,700.0	2,697.3	2,690.4	2,679.9	8.0	8.7	27.25	-43.2	-196.3	163.6	148.4	15.26	10.723	
2,800.0	2,796.7	2,791.5	2,780.1	8.4	9.2	26.13	-50.1	-208.3	164.6	148.6	15.93	10.332	
2,900.0	2,896.0	2,892.4	2,880.1	8.7	9.6	25.22	-56.6	-219.4	164.7	148.1	16.61	9.916	
3,000.0	2,995.4	2,992.6	2,979.6	9.2	10.1	24.59	-62.2	-230.3	164.8	147.5	17.30	9.527	
3,100.0	3,094.8	3,093.4	3,079.7	9.6	10.5	24.13	-67.4	-240.8	164.5	146.5	18.01	9.134	
3,150.9	3,145.3	3,143.5	3,129.5	9.8	10.7	23.89	-70.0	-245.9	164.4	146.0	18.37	8.946	
3,200.0	3,194.1	3,192.0	3,177.6	10.0	11.0	23.68	-72.4	-251.2	164.5	145.7	18.72	8.785	
3,300.0	3,293.5	3,290.6	3,275.4	10.4	11.4	23.36	-77.0	-262.7	165.5	146.1	19.44	8.512	
3,400.0	3,392.9	3,391.4	3,375.4	10.9	11.9	23.32	-80.9	-274.4	166.5	146.3	20.20	8.244	
3,500.0	3,492.2	3,491.1	3,474.5	11.3	12.4	23.43	-84.3	-285.7	167.3	146.3	20.96	7.982	
3,600.0	3,591.6	3,588.7	3,571.3	11.8	12.8	23.50	-87.7	-297.5	168.8	147.1	21.70	7.780	
3,700.0	3,691.0	3,689.0	3,670.7	12.2	13.3	23.62	-91.0	-310.4	171.1	148.6	22.48	7.611	
3,800.0	3,790.3	3,788.7	3,769.6	12.7	13.8	23.84	-94.0	-323.0	173.2	150.0	23.27	7.445	
3,900.0	3,889.7	3,887.4	3,867.3	13.1	14.3	24.08	-96.8	-335.9	175.9	151.8	24.05	7.313	
4,000.0	3,989.1	3,986.0	3,965.0	13.6	14.8	24.47	-99.1	-349.6	179.3	154.5	24.84	7.217	
4,100.0	4,088.4	4,084.7	4,062.7	14.1	15.3	24.89	-101.2	-364.0	183.4	157.8	25.65	7.152	
4,200.0	4,187.8	4,184.4	4,161.2	14.5	15.8	25.34	-103.1	-378.8	187.9	161.5	26.47	7.100	
4,300.0	4,287.2	4,284.9	4,260.5	15.0	16.4	25.80	-105.0	-393.8	192.5	165.2	27.30	7.050	
4,400.0	4,386.5	4,387.0	4,361.7	15.5	16.9	26.31	-106.7	-408.1	196.1	168.0	28.16	6.966	
4,500.0	4,485.9	4,488.7	4,462.4	15.9	17.4	26.86	-108.4	-421.3	198.8	169.8	29.01	6.855	
4,600.0	4,585.3	4,589.9	4,562.9	16.4	17.9	27.44	-110.0	-433.8	200.8	171.0	29.86	6.726	
4,700.0	4,684.6	4,690.6	4,662.9	16.9	18.4	27.98	-111.7	-445.7	202.4	171.7	30.71	6.590	
4,800.0	4,784.0	4,790.8	4,762.4	17.4	18.9	28.30	-114.2	-457.2	203.5	171.9	31.55	6.450	
4,900.0	4,883.4	4,888.3	4,859.0	17.9	19.3	28.27	-117.8	-469.3	205.3	173.0	32.35	6.346	
5,000.0	4,982.7	4,978.0	4,947.8	18.4	19.8	28.03	-121.6	-481.8	208.8	175.7	33.05	6.316	
5,100.0	5,082.1	4,978.0	4,947.8	18.8	19.8	28.03	-121.6	-481.8	238.0	207.7	30.37	7.838	
5,200.0	5,181.5	4,978.0	4,947.8	19.3	19.8	28.03	-121.6	-481.8	299.6	273.0	26.55	11.284	
5,300.0	5,280.8	4,978.0	4,947.8	19.8	19.8	28.03	-121.6	-481.8	377.9	354.1	23.82	15.866	
5,400.0	5,380.2	4,978.0	4,947.8	20.3	19.8	28.03	-121.6	-481.8	464.6	442.5	22.17	20.959	

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Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Offset Design Caballo 23 Fed Com - #703H - OH - Salt String													Offset Site Error:	0.0 usft
Survey Program: 133-MWD, 1152-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-91.64	-1.0	-35.0	35.0					
133.0	133.0	134.0	134.0	0.2	0.2	-120.79	-1.1	-34.9	35.3	34.9	0.44	80.718		
282.0	282.0	283.2	283.2	0.8	0.9	-44.95	-1.2	-34.5	34.2	32.5	1.61	21.268		
409.0	409.0	410.0	410.0	1.4	1.4	-41.66	-1.3	-34.0	32.5	29.9	2.59	12.528		
536.0	536.0	537.1	537.1	1.9	1.9	-34.83	-1.2	-33.7	31.4	27.8	3.60	8.744		
660.3	660.3	661.3	661.3	2.4	2.4	-41.87	-1.2	-33.5	30.9	26.3	4.56	6.767 CC		
663.0	663.0	663.9	663.9	2.5	2.4	-42.50	-1.2	-33.5	30.9	26.3	4.58	6.736		
790.0	790.0	790.7	790.7	3.0	2.9	36.46	-1.6	-34.2	31.4	25.9	5.54	5.669		
917.0	917.0	917.9	917.9	3.5	3.4	117.39	-1.9	-34.9	32.2	25.7	6.50	4.951		
1,045.0	1,045.0	1,046.0	1,046.0	4.0	3.9	-154.36	-1.9	-35.2	32.5	25.1	7.45	4.368		
1,106.0	1,106.0	1,107.1	1,107.1	4.2	4.2	-121.30	-1.9	-35.1	32.6	24.7	7.90	4.123		
1,125.5	1,125.4	1,126.5	1,126.5	4.3	4.3	-121.36	-1.9	-35.1	32.5	24.5	8.05	4.044		
1,164.0	1,164.0	1,164.8	1,164.8	4.4	4.4	-121.53	-2.0	-35.2	32.7	24.3	8.34	3.916		
1,200.0	1,200.0	1,200.6	1,200.6	4.5	4.6	-121.71	-2.1	-35.4	33.0	24.4	8.55	3.860		
1,255.0	1,255.0	1,254.7	1,254.7	4.5	4.8	-122.16	-2.6	-36.9	34.5	25.8	8.77	3.937		
1,300.0	1,300.0	1,299.1	1,299.1	4.5	5.0	69.47	-3.2	-38.7	36.4	27.4	8.96	4.059		
1,357.9	1,357.9	1,356.3	1,356.1	4.6	5.2	71.28	-4.2	-42.2	39.2	30.0	9.21	4.262		
1,400.0	1,399.9	1,397.6	1,397.3	4.6	5.4	73.44	-5.2	-45.3	41.9	32.5	9.39	4.459		
1,500.0	1,499.7	1,495.6	1,494.8	4.7	5.8	76.96	-8.1	-55.0	50.7	40.8	9.87	5.137		
1,600.0	1,599.6	1,605.6	1,592.7	4.9	6.3	78.78	-11.8	-67.4	62.2	51.8	10.45	5.951		
1,700.0	1,699.5	1,706.3	1,691.1	5.0	6.8	80.01	-15.6	-79.9	74.0	62.9	11.05	6.693		
1,800.0	1,799.3	1,807.0	1,789.5	5.2	7.2	80.89	-19.3	-92.5	85.8	74.1	11.68	7.339		
1,900.0	1,899.2	1,892.3	1,887.9	5.5	7.6	81.56	-23.1	-105.1	97.5	85.3	12.29	7.940		
2,000.0	1,999.0	2,008.5	1,986.4	5.7	8.2	82.09	-26.9	-117.7	109.4	96.3	13.04	8.384		
2,100.0	2,098.9	2,109.2	2,084.8	6.0	8.7	82.51	-30.6	-130.3	121.2	107.4	13.76	8.806		
2,200.0	2,198.8	2,190.1	2,183.2	6.3	9.1	82.86	-34.4	-142.8	133.0	118.6	14.41	9.228		
2,300.0	2,298.6	2,289.4	2,281.6	6.6	9.6	83.15	-38.1	-155.4	144.8	129.7	15.16	9.553		
2,357.9	2,356.5	2,347.0	2,338.7	6.8	9.9	83.30	-40.3	-162.7	151.7	136.1	15.60	9.723		
2,400.0	2,398.5	2,388.8	2,380.1	6.9	10.1	67.93	-41.9	-168.0	156.3	140.4	15.91	9.823		
2,500.0	2,498.3	2,488.4	2,478.8	7.3	10.6	41.19	-45.7	-180.6	165.0	148.3	16.64	9.912		
2,600.0	2,597.9	2,588.2	2,577.8	7.6	11.1	27.02	-49.5	-193.3	170.1	152.8	17.36	9.800		
2,638.1	2,635.8	2,626.3	2,615.6	7.7	11.3	23.52	-50.9	-198.1	171.2	153.6	17.63	9.708		
2,700.0	2,697.3	2,688.2	2,676.9	8.0	11.6	23.49	-53.3	-206.0	172.5	154.4	18.08	9.539		
2,800.0	2,796.7	2,788.2	2,776.0	8.4	12.1	23.45	-57.0	-218.6	174.6	155.8	18.82	9.277		
2,900.0	2,896.0	2,888.2	2,875.1	8.7	12.6	23.41	-60.8	-231.3	176.7	157.1	19.57	9.029		
3,000.0	2,995.4	2,988.2	2,974.2	9.2	13.2	23.38	-64.6	-244.0	178.8	158.5	20.33	8.794		
3,100.0	3,094.8	3,088.1	3,073.3	9.6	13.7	23.34	-68.4	-256.6	180.9	159.8	21.10	8.573		
3,200.0	3,194.1	3,188.1	3,172.4	10.0	14.2	23.30	-72.2	-269.3	183.0	161.1	21.88	8.365		
3,300.0	3,293.5	3,288.1	3,271.5	10.4	14.7	23.26	-76.0	-282.0	185.1	162.5	22.67	8.168		
3,400.0	3,392.9	3,388.1	3,370.6	10.9	15.2	23.23	-79.8	-294.6	187.2	163.8	23.46	7.982		
3,500.0	3,492.2	3,488.0	3,469.7	11.3	15.8	23.19	-83.6	-307.3	189.3	165.1	24.26	7.806		
3,600.0	3,591.6	3,588.0	3,568.8	11.8	16.3	23.16	-87.4	-320.0	191.4	166.4	25.06	7.640		
3,700.0	3,691.0	3,688.0	3,667.9	12.2	16.8	23.13	-91.1	-332.6	193.5	167.7	25.87	7.482		
3,800.0	3,790.3	3,788.0	3,767.0	12.7	17.3	23.09	-94.9	-345.3	195.6	169.0	26.68	7.334		
3,900.0	3,889.7	3,888.0	3,866.1	13.1	17.8	23.06	-98.7	-358.0	197.8	170.3	27.49	7.193		
4,000.0	3,989.1	3,987.9	3,965.2	13.6	18.4	23.03	-102.5	-370.7	199.9	171.5	28.31	7.059		
4,100.0	4,088.4	4,087.9	4,064.3	14.1	18.9	23.00	-106.3	-383.3	202.0	172.8	29.14	6.932		
4,200.0	4,187.8	4,187.9	4,163.4	14.5	19.4	22.97	-110.1	-396.0	204.1	174.1	29.96	6.811		
4,300.0	4,287.2	4,287.9	4,262.5	15.0	20.0	22.94	-113.9	-408.7	206.2	175.4	30.79	6.696		
4,400.0	4,386.5	4,387.8	4,361.6	15.5	20.5	22.91	-117.7	-421.3	208.3	176.7	31.62	6.587		
4,500.0	4,485.9	4,487.8	4,460.7	15.9	21.0	22.89	-121.5	-434.0	210.4	177.9	32.45	6.483		
4,600.0	4,585.3	4,587.8	4,559.8	16.4	21.5	22.86	-125.2	-446.7	212.5	179.2	33.29	6.383		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Reference Site: Caballo 23 Fed Com
Site Error: 0.0 usft
Reference Well: #704H
Well Error: 0.0 usft
Reference Wellbore: ST01
Reference Design: Plan #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Offset Design Caballo 23 Fed Com - #703H - OH - Salt String													Offset Site Error:	0.0 usft
Survey Program: 133-MWD, 1152-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.0	4,684.6	4,687.8	4,658.9	16.9	22.1	22.83	-129.0	-459.3	214.6	180.5	34.12	6.289		
4,800.0	4,784.0	4,787.8	4,758.0	17.4	22.6	22.80	-132.8	-472.0	216.7	181.7	34.96	6.198		
4,900.0	4,883.4	4,887.7	4,857.1	17.9	23.1	22.78	-136.6	-484.7	218.8	183.0	35.80	6.112		
5,000.0	4,982.7	4,987.7	4,956.2	18.4	23.6	22.75	-140.4	-497.3	220.9	184.3	36.64	6.029		
5,100.0	5,082.1	5,087.7	5,055.3	18.8	24.2	22.73	-144.2	-510.0	223.0	185.5	37.49	5.949		
5,200.0	5,181.5	5,187.7	5,154.4	19.3	24.7	22.70	-148.0	-522.7	225.1	186.8	38.33	5.873		
5,300.0	5,280.8	5,287.6	5,253.5	19.8	25.2	22.68	-151.8	-535.3	227.2	188.1	39.18	5.800		
5,400.0	5,380.2	5,387.6	5,352.6	20.3	25.8	22.66	-155.6	-548.0	229.3	189.3	40.02	5.730		
5,500.0	5,479.5	5,487.6	5,451.7	20.8	26.3	22.63	-159.3	-560.7	231.4	190.6	40.87	5.663		
5,600.0	5,578.9	5,587.6	5,550.8	21.3	26.8	22.61	-163.1	-573.4	233.5	191.8	41.72	5.598		
5,700.0	5,678.3	5,687.6	5,649.9	21.8	27.4	22.59	-166.9	-586.0	235.7	193.1	42.57	5.536		
5,800.0	5,777.6	5,787.5	5,749.0	22.3	27.9	22.57	-170.7	-598.7	237.8	194.3	43.42	5.476		
5,900.0	5,877.0	5,887.5	5,848.1	22.8	28.4	22.55	-174.5	-611.4	239.9	195.6	44.27	5.419		
6,000.0	5,976.4	5,987.5	5,947.2	23.3	28.9	22.52	-178.3	-624.0	242.0	196.9	45.12	5.363		
6,100.0	6,075.7	6,087.5	6,046.3	23.7	29.5	22.50	-182.1	-636.7	244.1	198.1	45.97	5.310		
6,200.0	6,175.1	6,187.4	6,145.4	24.2	30.0	22.48	-185.9	-649.4	246.2	199.4	46.82	5.258		
6,300.0	6,274.5	6,287.4	6,244.5	24.7	30.5	22.46	-189.7	-662.0	248.3	200.6	47.67	5.208		
6,400.0	6,373.8	6,387.4	6,343.6	25.2	31.1	22.44	-193.4	-674.7	250.4	201.9	48.53	5.160		
6,500.0	6,473.2	6,487.4	6,442.7	25.7	31.6	22.42	-197.2	-687.4	252.5	203.1	49.38	5.113		
6,600.0	6,572.6	6,587.4	6,541.8	26.2	32.1	22.40	-201.0	-700.0	254.6	204.4	50.24	5.068		
6,700.0	6,671.9	6,687.3	6,640.9	26.7	32.7	22.39	-204.8	-712.7	256.7	205.6	51.09	5.024		
6,800.0	6,771.3	6,787.3	6,740.0	27.2	33.2	22.37	-208.6	-725.4	258.8	206.9	51.95	4.982		
6,900.0	6,870.7	6,887.3	6,839.1	27.7	33.7	22.35	-212.4	-738.0	260.9	208.1	52.80	4.941		
7,000.0	6,970.0	6,987.3	6,938.2	28.2	34.3	22.33	-216.2	-750.7	263.0	209.4	53.66	4.902		
7,100.0	7,069.4	7,087.2	7,037.3	28.7	34.8	22.31	-220.0	-763.4	265.1	210.6	54.52	4.863		
7,200.0	7,168.8	7,187.2	7,136.4	29.2	35.3	22.30	-223.8	-776.1	267.2	211.9	55.38	4.826		
7,300.0	7,268.1	7,287.2	7,235.5	29.7	35.9	22.28	-227.5	-788.7	269.4	213.1	56.23	4.790		
7,357.2	7,324.9	7,346.7	7,294.5	30.0	36.2	22.28	-229.8	-796.1	270.5	213.7	56.74	4.767		
7,400.0	7,367.5	7,393.8	7,341.2	30.2	36.4	22.30	-231.3	-801.3	270.9	213.8	57.12	4.744		
7,500.0	7,467.2	7,503.6	7,450.6	30.6	36.9	22.35	-234.1	-810.5	271.8	213.9	57.91	4.693		
7,600.0	7,567.1	7,613.4	7,560.3	31.0	37.3	22.37	-235.6	-815.7	272.3	213.7	58.63	4.644		
7,679.9	7,647.0	7,701.2	7,648.1	31.3	37.6	-87.41	-236.0	-817.0	272.4	213.3	59.11	4.608		
7,693.3	7,660.4	7,716.0	7,662.8	31.3	37.7	-87.41	-236.0	-817.0	272.3	213.2	59.18	4.602		
7,700.0	7,667.1	7,721.2	7,668.1	31.4	37.7	-87.41	-236.0	-817.0	272.4	213.1	59.23	4.599		
7,800.0	7,767.1	7,821.2	7,768.1	31.7	38.0	-87.41	-236.0	-817.0	272.4	212.5	59.84	4.552		
7,900.0	7,867.1	7,921.2	7,868.1	32.0	38.3	-87.41	-236.0	-817.0	272.4	211.9	60.44	4.506		
8,000.0	7,967.1	8,021.2	7,968.1	32.4	38.7	-87.41	-236.0	-817.0	272.4	211.3	61.06	4.461		
8,100.0	8,067.1	8,121.2	8,068.1	32.7	39.0	-87.41	-236.0	-817.0	272.4	210.7	61.68	4.416		
8,200.0	8,167.1	8,221.2	8,168.1	33.1	39.4	-87.41	-236.0	-817.0	272.4	210.1	62.30	4.372		
8,300.0	8,267.1	8,321.2	8,268.1	33.4	39.7	-87.41	-236.0	-817.0	272.4	209.4	62.93	4.328		
8,400.0	8,367.1	8,421.2	8,368.1	33.8	40.0	-87.41	-236.0	-817.0	272.4	208.8	63.57	4.285		
8,500.0	8,467.1	8,521.2	8,468.1	34.1	40.4	-87.41	-236.0	-817.0	272.4	208.2	64.20	4.242		
8,600.0	8,567.1	8,621.2	8,568.1	34.5	40.7	-87.41	-236.0	-817.0	272.4	207.5	64.85	4.200		
8,700.0	8,667.1	8,721.2	8,668.1	34.8	41.1	-87.41	-236.0	-817.0	272.4	206.9	65.50	4.159		
8,800.0	8,767.1	8,821.2	8,768.1	35.2	41.4	-87.41	-236.0	-817.0	272.4	206.2	66.15	4.118		
8,900.0	8,867.1	8,921.2	8,868.1	35.5	41.8	-87.41	-236.0	-817.0	272.4	205.6	66.81	4.077		
9,000.0	8,967.1	9,021.2	8,968.1	35.9	42.1	-87.41	-236.0	-817.0	272.4	204.9	67.47	4.037		
9,100.0	9,067.1	9,121.2	9,068.1	36.2	42.5	-87.41	-236.0	-817.0	272.4	204.2	68.14	3.998		
9,200.0	9,167.1	9,221.2	9,168.1	36.6	42.8	-87.41	-236.0	-817.0	272.4	203.6	68.81	3.959		
9,300.0	9,267.1	9,321.2	9,268.1	37.0	43.2	-87.41	-236.0	-817.0	272.4	202.9	69.48	3.920		
9,400.0	9,367.1	9,421.2	9,368.1	37.3	43.5	-87.41	-236.0	-817.0	272.4	202.2	70.16	3.882		
9,500.0	9,467.1	9,521.2	9,468.1	37.7	43.9	-87.41	-236.0	-817.0	272.4	201.5	70.84	3.845		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Reference Site: Caballo 23 Fed Com
 Site Error: 0.0 usft
 Reference Well: #704H
 Well Error: 0.0 usft
 Reference Wellbore: ST01
 Reference Design: Plan #1

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3366.0usft
 MD Reference: KB = 25' @ 3366.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: EDM 5000.14
 Offset TVD Reference: Offset Datum

Offset Design Caballo 23 Fed Com - #703H - OH - Salt String													Offset Site Error: 0.0 usft
Survey Program: 133-MWD, 1152-MWD													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,600.0	9,567.1	9,621.2	9,568.1	38.1	44.2	-87.41	-236.0	-817.0	272.4	200.9	71.52	3.808	
9,700.0	9,667.1	9,721.2	9,668.1	38.4	44.6	-87.41	-236.0	-817.0	272.4	200.2	72.21	3.772	
9,800.0	9,767.1	9,821.2	9,768.1	38.8	45.0	-87.41	-236.0	-817.0	272.4	199.5	72.90	3.736	
9,900.0	9,867.1	9,921.2	9,868.1	39.2	45.3	-87.41	-236.0	-817.0	272.4	198.8	73.60	3.701	
10,000.0	9,967.1	10,021.2	9,968.1	39.5	45.7	-87.41	-236.0	-817.0	272.4	198.1	74.29	3.666	
10,100.0	10,067.1	10,121.2	10,068.1	39.9	46.0	-87.41	-236.0	-817.0	272.4	197.4	74.99	3.632	
10,200.0	10,167.1	10,221.2	10,168.1	40.3	46.4	-87.41	-236.0	-817.0	272.4	196.7	75.70	3.598	
10,300.0	10,267.1	10,321.2	10,268.1	40.6	46.8	-87.41	-236.0	-817.0	272.4	196.0	76.40	3.565	
10,400.0	10,367.1	10,421.2	10,368.1	41.0	47.1	-87.41	-236.0	-817.0	272.4	195.3	77.11	3.532	
10,500.0	10,467.1	10,521.2	10,468.1	41.4	47.5	-87.41	-236.0	-817.0	272.4	194.6	77.83	3.500	
10,600.0	10,567.1	10,621.2	10,568.1	41.8	47.9	-87.41	-236.0	-817.0	272.4	193.8	78.54	3.468	
10,700.0	10,667.1	10,721.2	10,668.1	42.1	48.2	-87.41	-236.0	-817.0	272.4	193.1	79.26	3.437	
10,800.0	10,767.1	10,821.2	10,768.1	42.5	48.6	-87.41	-236.0	-817.0	272.4	192.4	79.98	3.406	
10,900.0	10,867.1	10,921.2	10,868.1	42.9	49.0	-87.41	-236.0	-817.0	272.4	191.7	80.70	3.375	
11,000.0	10,967.1	11,021.2	10,968.1	43.3	49.4	-87.41	-236.0	-817.0	272.4	191.0	81.42	3.345	
11,100.0	11,067.1	11,121.2	11,068.1	43.7	49.7	-87.41	-236.0	-817.0	272.4	190.2	82.15	3.316	
11,200.0	11,167.1	11,221.2	11,168.1	44.0	50.1	-87.41	-236.0	-817.0	272.4	189.5	82.88	3.286	
11,300.0	11,267.1	11,321.2	11,268.1	44.4	50.5	-87.41	-236.0	-817.0	272.4	188.8	83.61	3.258	
11,400.0	11,367.1	11,421.2	11,368.1	44.8	50.8	-87.41	-236.0	-817.0	272.4	188.0	84.34	3.229	
11,500.0	11,467.1	11,521.2	11,468.1	45.2	51.2	-87.41	-236.0	-817.0	272.4	187.3	85.08	3.201	
11,600.0	11,567.1	11,621.2	11,568.1	45.6	51.6	-87.41	-236.0	-817.0	272.4	186.6	85.82	3.174	
11,700.0	11,667.1	11,721.2	11,668.1	46.0	52.0	-87.41	-236.0	-817.0	272.4	185.8	86.56	3.147	
11,800.0	11,767.1	11,821.2	11,768.1	46.3	52.4	-87.41	-236.0	-817.0	272.4	185.1	87.30	3.120	
11,900.0	11,867.1	11,921.2	11,868.1	46.7	52.7	-87.41	-236.0	-817.0	272.4	184.3	88.04	3.094	
11,939.9	11,907.0	11,961.1	11,908.0	46.9	52.9	-87.41	-236.0	-817.0	272.4	184.0	88.34	3.083	
11,950.0	11,917.1	11,970.9	11,917.8	46.9	52.9	-86.96	-235.9	-817.0	272.4	184.0	88.42	3.081	
11,975.0	11,942.1	11,995.1	11,942.0	47.0	53.0	-86.96	-234.7	-817.0	272.4	183.8	88.60	3.074	
12,000.0	11,966.9	12,019.4	11,966.1	47.1	53.1	-86.97	-232.3	-817.0	272.4	183.6	88.77	3.068	
12,025.0	11,991.6	12,043.6	11,990.1	47.2	53.2	-86.98	-228.7	-817.1	272.4	183.4	88.94	3.063	
12,050.0	12,016.1	12,067.9	12,013.9	47.3	53.3	-87.00	-223.9	-817.1	272.4	183.3	89.09	3.057	
12,075.0	12,040.3	12,092.2	12,037.4	47.4	53.4	-87.03	-217.9	-817.2	272.4	183.1	89.24	3.052	
12,100.0	12,064.1	12,116.4	12,060.5	47.5	53.4	-87.06	-210.6	-817.2	272.4	183.0	89.37	3.048	
12,125.0	12,087.5	12,140.7	12,083.3	47.5	53.5	-87.11	-202.3	-817.3	272.4	182.9	89.50	3.044	
12,150.0	12,110.4	12,165.0	12,105.7	47.6	53.6	-87.16	-192.7	-817.4	272.4	182.8	89.61	3.040	
12,175.0	12,132.7	12,189.3	12,127.5	47.7	53.6	-87.22	-182.0	-817.5	272.4	182.7	89.72	3.036	
12,200.0	12,154.4	12,213.6	12,148.8	47.7	53.7	-87.29	-170.3	-817.6	272.4	182.5	89.82	3.032	
12,225.0	12,175.5	12,238.0	12,169.4	47.8	53.8	-87.36	-157.4	-817.7	272.4	182.4	89.92	3.029	
12,250.0	12,195.7	12,262.3	12,189.4	47.9	53.8	-87.44	-143.5	-817.8	272.4	182.3	90.02	3.026	
12,275.0	12,215.3	12,286.7	12,208.7	47.9	53.9	-87.53	-128.6	-817.9	272.4	182.3	90.11	3.023	
12,300.0	12,233.9	12,311.1	12,227.2	48.0	53.9	-87.63	-112.7	-818.1	272.4	182.2	90.19	3.020	
12,325.0	12,251.7	12,335.5	12,244.9	48.0	54.0	-87.73	-95.9	-818.2	272.4	182.1	90.28	3.017	
12,350.0	12,268.5	12,360.0	12,261.7	48.0	54.0	-87.84	-78.1	-818.4	272.4	182.0	90.37	3.014	
12,369.8	12,281.1	12,379.4	12,274.4	48.1	54.0	-87.93	-63.5	-818.5	272.4	181.9	90.44	3.011	
12,375.0	12,284.3	12,384.4	12,277.6	48.1	54.1	-87.95	-59.5	-818.6	272.4	181.9	90.46	3.011	
12,400.0	12,299.1	12,408.9	12,292.6	48.1	54.1	-88.07	-40.1	-818.7	272.4	181.8	90.55	3.008	
12,425.0	12,312.8	12,433.5	12,306.5	48.1	54.1	-88.19	-20.0	-818.9	272.4	181.7	90.65	3.005	
12,450.0	12,325.5	12,458.0	12,319.4	48.1	54.1	-88.32	0.9	-819.1	272.4	181.6	90.75	3.001	
12,475.0	12,336.9	12,482.6	12,331.3	48.2	54.2	-88.46	22.5	-819.3	272.4	181.5	90.86	2.998	
12,500.0	12,347.2	12,507.2	12,342.0	48.2	54.2	-88.60	44.6	-819.5	272.4	181.4	90.97	2.994	
12,525.0	12,356.3	12,531.9	12,351.6	48.2	54.2	-88.74	67.3	-819.7	272.4	181.3	91.09	2.990	
12,550.0	12,364.1	12,556.6	12,360.0	48.2	54.2	-88.88	90.6	-819.9	272.4	181.2	91.21	2.986	
12,575.0	12,370.7	12,581.3	12,367.2	48.2	54.2	-89.03	114.2	-820.1	272.4	181.1	91.35	2.982	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Project: Lea County, NM (NAD 83 NME)
Reference Site: Caballo 23 Fed Com
Site Error: 0.0 usft
Reference Well: #704H
Well Error: 0.0 usft
Reference Wellbore: ST01
Reference Design: Plan #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Offset Design Caballo 23 Fed Com - #703H - OH - Salt String													Offset Site Error:	0.0 usft
Survey Program: 133-MWD, 1152-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,600.0	12,376.0	12,606.1	12,373.2	48.2	54.3	-89.18	138.2	-820.3	272.4	180.9	91.49	2.978		
12,625.0	12,380.1	12,630.9	12,377.9	48.2	54.3	-89.34	162.6	-820.5	272.4	180.8	91.63	2.973		
12,650.0	12,382.8	12,655.7	12,381.4	48.2	54.3	-89.49	187.2	-820.7	272.5	180.7	91.79	2.968		
12,675.0	12,384.2	12,680.6	12,383.6	48.2	54.3	-89.65	212.0	-820.9	272.5	180.5	91.95	2.963		
12,686.7	12,384.5	12,692.2	12,384.1	48.3	54.3	-89.72	223.6	-821.0	272.5	180.5	92.03	2.961		
12,700.0	12,384.5	12,708.2	12,384.4	48.3	54.3	-89.77	236.9	-821.2	272.5	180.4	92.13	2.958		
12,800.0	12,385.2	12,805.5	12,385.1	48.3	54.5	-89.77	336.9	-822.0	272.6	179.6	92.99	2.932		
12,900.0	12,385.9	12,905.5	12,385.8	48.5	54.6	-89.77	436.8	-822.9	272.7	178.6	94.11	2.898		
13,000.0	12,386.6	13,005.5	12,386.5	48.7	54.9	-89.77	536.8	-823.8	272.8	177.3	95.46	2.858		
13,100.0	12,387.3	13,105.5	12,387.2	49.0	55.2	-89.77	636.8	-824.7	272.9	175.9	97.05	2.812		
13,200.0	12,387.9	13,205.5	12,387.8	49.5	55.6	-89.77	736.8	-825.6	273.0	174.2	98.86	2.762		
13,300.0	12,388.6	13,305.5	12,388.5	50.3	56.2	-89.77	836.8	-826.4	273.1	172.2	100.88	2.707		
13,400.0	12,389.3	13,405.5	12,389.2	51.2	56.9	-89.77	936.8	-827.3	273.2	170.1	103.09	2.650		
13,500.0	12,390.0	13,505.5	12,389.9	52.3	57.7	-89.77	1,036.8	-828.2	273.3	167.8	105.49	2.591		
13,600.0	12,390.6	13,605.5	12,390.6	53.5	58.7	-89.77	1,136.8	-829.1	273.4	165.4	108.06	2.530		
13,700.0	12,391.3	13,705.5	12,391.2	54.8	59.8	-89.77	1,236.8	-829.9	273.5	162.8	110.79	2.469		
13,800.0	12,392.0	13,805.5	12,391.9	56.3	61.0	-89.77	1,336.8	-830.8	273.7	160.0	113.67	2.408		
13,900.0	12,392.7	13,905.5	12,392.6	57.8	62.3	-89.77	1,436.8	-831.7	273.8	157.1	116.68	2.346		
14,000.0	12,393.4	14,005.5	12,393.3	59.3	63.7	-89.77	1,536.8	-832.6	273.9	154.0	119.82	2.286		
14,100.0	12,394.0	14,105.5	12,394.0	61.0	65.2	-89.77	1,636.8	-833.5	274.0	150.9	123.08	2.226		
14,200.0	12,394.7	14,205.5	12,394.6	62.7	66.7	-89.77	1,736.8	-834.3	274.1	147.6	126.44	2.168		
14,300.0	12,395.4	14,305.5	12,395.3	64.4	68.3	-89.78	1,836.8	-835.2	274.2	144.3	129.91	2.111		
14,400.0	12,396.1	14,405.5	12,396.0	66.2	69.9	-89.78	1,936.8	-836.1	274.3	140.8	133.46	2.055		
14,500.0	12,396.7	14,505.5	12,396.7	68.0	71.7	-89.78	2,036.7	-837.0	274.4	137.3	137.10	2.001		
14,600.0	12,397.4	14,605.5	12,397.3	69.9	73.4	-89.78	2,136.7	-837.9	274.5	133.7	140.82	1.949		
14,700.0	12,398.1	14,705.5	12,398.0	71.8	75.2	-89.78	2,236.7	-838.7	274.6	130.0	144.61	1.899		
14,800.0	12,398.8	14,805.5	12,398.7	73.7	77.0	-89.78	2,336.7	-839.6	274.7	126.2	148.47	1.850		
14,900.0	12,399.5	14,905.5	12,399.4	75.7	78.9	-89.78	2,436.7	-840.5	274.8	122.4	152.39	1.803		
15,000.0	12,400.1	15,005.5	12,400.1	77.7	80.8	-89.78	2,536.7	-841.4	274.9	118.5	156.37	1.758		
15,100.0	12,400.8	15,105.5	12,400.7	79.8	82.8	-89.78	2,636.7	-842.3	275.0	114.6	160.40	1.715		
15,200.0	12,401.5	15,205.5	12,401.4	81.8	84.7	-89.78	2,736.7	-843.1	275.1	110.6	164.47	1.673		
15,300.0	12,402.2	15,305.5	12,402.1	83.9	86.7	-89.78	2,836.7	-844.0	275.2	106.6	168.60	1.632		
15,400.0	12,402.8	15,405.5	12,402.8	86.0	88.7	-89.78	2,936.7	-844.9	275.3	102.6	172.76	1.594		
15,500.0	12,403.5	15,505.5	12,403.5	88.1	90.8	-89.78	3,036.7	-845.8	275.4	98.5	176.97	1.556		
15,600.0	12,404.2	15,605.5	12,404.1	90.2	92.8	-89.78	3,136.7	-846.6	275.5	94.3	181.21	1.521		
15,700.0	12,404.9	15,705.5	12,404.8	92.4	94.9	-89.78	3,236.7	-847.5	275.6	90.2	185.48	1.486 Level 3		
15,800.0	12,405.6	15,805.5	12,405.5	94.5	97.0	-89.78	3,336.7	-848.4	275.8	86.0	189.79	1.453 Level 3		
15,900.0	12,406.2	15,905.5	12,406.2	96.7	99.1	-89.78	3,436.7	-849.3	275.9	81.7	194.12	1.421 Level 3		
16,000.0	12,406.9	16,005.5	12,406.9	98.9	101.3	-89.78	3,536.7	-850.2	276.0	77.5	198.48	1.390 Level 3		
16,100.0	12,407.6	16,105.5	12,407.5	101.1	103.4	-89.78	3,636.6	-851.0	276.1	73.2	202.87	1.361 Level 3		
16,200.0	12,408.3	16,205.5	12,408.2	103.3	105.6	-89.78	3,736.6	-851.9	276.2	68.9	207.29	1.332 Level 3		
16,300.0	12,408.9	16,305.5	12,408.9	105.6	107.7	-89.78	3,836.6	-852.8	276.3	64.6	211.72	1.305 Level 3		
16,400.0	12,409.6	16,405.5	12,409.6	107.8	109.9	-89.78	3,936.6	-853.7	276.4	60.2	216.18	1.279 Level 3		
16,500.0	12,410.3	16,505.5	12,410.3	110.0	112.1	-89.78	4,036.6	-854.6	276.5	55.8	220.65	1.253 Level 3		
16,600.0	12,411.0	16,605.5	12,410.9	112.3	114.3	-89.78	4,136.6	-855.4	276.6	51.4	225.15	1.228 Level 2		
16,700.0	12,411.7	16,705.5	12,411.6	114.6	116.5	-89.78	4,236.6	-856.3	276.7	47.0	229.66	1.205 Level 2		
16,800.0	12,412.3	16,805.5	12,412.3	116.8	118.8	-89.78	4,336.6	-857.2	276.8	42.6	234.19	1.182 Level 2		
16,900.0	12,413.0	16,905.5	12,413.0	119.1	121.0	-89.78	4,436.6	-858.1	276.9	38.2	238.74	1.160 Level 2		
17,000.0	12,413.7	17,005.5	12,413.6	121.4	123.3	-89.78	4,536.6	-859.0	277.0	33.7	243.30	1.139 Level 2		
17,100.0	12,414.4	17,105.5	12,414.3	123.7	125.5	-89.79	4,636.6	-859.8	277.1	29.2	247.87	1.118 Level 2		
17,200.0	12,415.0	17,205.5	12,415.0	126.0	127.8	-89.79	4,736.6	-860.7	277.2	24.8	252.46	1.098 Level 2		
17,300.0	12,415.7	17,305.5	12,415.7	128.3	130.0	-89.79	4,836.6	-861.6	277.3	20.3	257.06	1.079 Level 2		

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Offset Design Caballo 23 Fed Com - #703H - OH - Salt String													Offset Site Error: 0.0 usft
Survey Program: 133-MWD, 1152-MWD													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,400.0	12,416.4	17,405.5	12,416.4	130.6	132.3	-89.79	4,936.6	-862.5	277.4	15.8	261.67	1.060 Level 2	
17,500.0	12,417.1	17,505.5	12,417.0	132.9	134.6	-89.79	5,036.6	-863.3	277.5	11.2	266.29	1.042 Level 2	
17,600.0	12,417.8	17,605.5	12,417.7	135.3	136.9	-89.79	5,136.6	-864.2	277.6	6.7	270.93	1.025 Level 2	
17,700.0	12,418.4	17,705.5	12,418.4	137.6	139.2	-89.79	5,236.5	-865.1	277.8	2.2	275.57	1.008 Level 2	
17,800.0	12,419.1	17,805.5	12,419.1	139.9	141.5	-89.79	5,336.5	-866.0	277.9	-2.4	280.22	0.992 Level 1	
17,900.0	12,419.8	17,905.5	12,419.8	142.2	143.8	-89.79	5,436.5	-866.9	278.0	-6.9	284.89	0.976 Level 1	
18,000.0	12,420.5	18,005.5	12,420.4	144.6	146.1	-89.79	5,536.5	-867.7	278.1	-11.5	289.56	0.960 Level 1	
18,100.0	12,421.1	18,105.5	12,421.1	146.9	148.4	-89.79	5,636.5	-868.6	278.2	-16.1	294.24	0.945 Level 1	
18,200.0	12,421.8	18,205.5	12,421.8	149.3	150.7	-89.79	5,736.5	-869.5	278.3	-20.6	298.92	0.931 Level 1	
18,300.0	12,422.5	18,305.5	12,422.5	151.6	153.1	-89.79	5,836.5	-870.4	278.4	-25.2	303.62	0.917 Level 1	
18,400.0	12,423.2	18,405.5	12,423.2	154.0	155.4	-89.79	5,936.5	-871.3	278.5	-29.8	308.32	0.903 Level 1	
18,500.0	12,423.9	18,505.5	12,423.8	156.3	157.7	-89.79	6,036.5	-872.1	278.6	-34.4	313.03	0.890 Level 1	
18,600.0	12,424.5	18,605.5	12,424.5	158.7	160.1	-89.79	6,136.5	-873.0	278.7	-39.0	317.75	0.877 Level 1	
18,700.0	12,425.2	18,705.5	12,425.2	161.1	162.4	-89.79	6,236.5	-873.9	278.8	-43.7	322.47	0.865 Level 1	
18,800.0	12,425.9	18,805.5	12,425.9	163.4	164.8	-89.79	6,336.5	-874.8	278.9	-48.3	327.20	0.852 Level 1	
18,900.0	12,426.6	18,905.5	12,426.6	165.8	167.1	-89.79	6,436.5	-875.7	279.0	-52.9	331.93	0.841 Level 1	
19,000.0	12,427.2	19,005.5	12,427.2	168.2	169.5	-89.79	6,536.5	-876.5	279.1	-57.6	336.67	0.829 Level 1	
19,100.0	12,427.9	19,105.5	12,427.9	170.6	171.8	-89.79	6,636.5	-877.4	279.2	-62.2	341.41	0.818 Level 1	
19,200.0	12,428.6	19,205.5	12,428.6	172.9	174.2	-89.79	6,736.5	-878.3	279.3	-66.8	346.16	0.807 Level 1	
19,300.0	12,429.3	19,305.5	12,429.3	175.3	176.5	-89.79	6,836.4	-879.2	279.4	-71.5	350.92	0.796 Level 1	
19,400.0	12,430.0	19,405.5	12,429.9	177.7	178.9	-89.79	6,936.4	-880.0	279.5	-76.1	355.68	0.786 Level 1	
19,500.0	12,430.6	19,505.5	12,430.6	180.1	181.3	-89.79	7,036.4	-880.9	279.6	-80.8	360.44	0.776 Level 1	
19,600.0	12,431.3	19,605.5	12,431.3	182.5	183.6	-89.79	7,136.4	-881.8	279.7	-85.5	365.21	0.766 Level 1	
19,700.0	12,432.0	19,705.5	12,432.0	184.9	186.0	-89.79	7,236.4	-882.7	279.9	-90.1	369.98	0.756 Level 1	
19,800.0	12,432.7	19,805.5	12,432.7	187.3	188.4	-89.79	7,336.4	-883.6	280.0	-94.8	374.76	0.747 Level 1	
19,849.1	12,433.0	19,854.7	12,433.0	188.4	189.5	-89.80	7,385.5	-884.0	280.0	-97.1	377.10	0.743 Level 1, ES, SF	

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Offset Design Caballo 23 Fed Com - #704H - OH - OH														Offset Site Error: 0.0 usft	
Survey Program: 133-MWD, 1226-MWD														Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
1,164.0	1,164.0	1,164.0	1,164.0	0.0	0.0	0.00	4.0	-3.1	0.0	0.0	0.00	N/A			
1,169.6	1,169.6	1,169.6	1,169.6	0.0	0.0	0.00	4.0	-3.1	0.0	0.0	0.00	N/A			
1,200.0	1,200.0	1,200.0	1,200.0	0.1	0.1	-30.10	4.1	-3.1	0.1	-0.1	0.14	0.403	Level 1		
1,255.0	1,255.0	1,255.0	1,255.0	0.1	0.1	-37.27	4.5	-3.1	0.3	0.1	0.21	1.635			
1,300.0	1,300.0	1,300.0	1,300.0	0.1	0.2	156.01	4.8	-3.4	1.2	0.9	0.24	4.804			
1,357.9	1,357.9	1,357.9	1,357.8	0.1	0.2	161.61	5.4	-4.0	3.8	3.5	0.32	12.155			
1,400.0	1,399.9	1,399.8	1,399.7	0.2	0.2	162.71	6.0	-4.7	6.6	6.2	0.38	17.523			
1,500.0	1,499.7	1,499.5	1,499.4	0.3	0.3	160.99	7.7	-6.9	13.6	13.1	0.58	23.723	CC, ES		
1,600.0	1,599.6	1,599.2	1,599.1	0.5	0.5	158.53	9.5	-9.8	20.8	19.9	0.88	23.737			
1,700.0	1,699.5	1,698.6	1,698.4	0.7	0.6	155.31	11.7	-13.8	28.7	27.5	1.24	23.196			
1,800.0	1,799.3	1,798.0	1,797.6	0.9	0.9	151.23	14.4	-19.5	37.6	36.0	1.66	22.615			
1,900.0	1,899.2	1,897.4	1,896.6	1.2	1.1	147.41	17.1	-26.4	47.1	44.9	2.15	21.897			
2,000.0	1,999.0	1,996.0	1,994.7	1.4	1.4	142.11	19.6	-36.1	57.9	55.2	2.69	21.559	SF		
2,100.0	2,098.9	2,094.5	2,092.2	1.7	1.7	135.16	20.9	-49.9	70.2	67.0	3.25	21.596			
2,200.0	2,198.8	2,193.4	2,189.7	2.0	2.0	127.63	19.9	-66.8	83.6	79.7	3.86	21.644			
2,300.0	2,298.6	2,291.2	2,285.6	2.4	2.4	120.67	17.1	-85.6	98.5	94.0	4.49	21.943			
2,357.9	2,356.5	2,347.4	2,340.6	2.6	2.7	117.17	15.2	-97.2	108.0	103.2	4.85	22.253			
2,400.0	2,398.5	2,387.8	2,380.0	2.7	2.8	99.36	13.8	-105.9	115.2	110.1	5.12	22.480			
2,500.0	2,498.3	2,484.2	2,473.6	3.1	3.3	67.63	9.4	-128.6	131.8	126.0	5.79	22.754			
2,600.0	2,597.9	2,580.3	2,565.9	3.4	3.9	48.63	2.4	-154.0	147.3	140.9	6.40	23.026			
2,638.1	2,635.8	2,579.0	2,564.8	3.5	3.9	45.13	2.5	-153.6	157.8	151.8	5.96	26.483			
2,700.0	2,697.3	2,579.0	2,564.8	3.8	3.9	45.13	2.5	-153.6	190.1	185.0	5.06	37.555			
2,800.0	2,796.7	2,579.0	2,564.8	4.1	3.9	45.13	2.5	-153.6	265.5	261.5	4.02	65.996			
2,900.0	2,896.0	2,579.0	2,564.8	4.5	3.9	45.13	2.5	-153.6	353.3	349.8	3.54	99.716			
3,000.0	2,995.4	2,579.0	2,564.8	4.9	3.9	45.13	2.5	-153.6	446.3	443.0	3.34	133.660			

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Reference Site: Caballo 23 Fed Com
Site Error: 0.0 usft
Reference Well: #704H
Well Error: 0.0 usft
Reference Wellbore: ST01
Reference Design: Plan #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB = 25' @ 3366.0usft

Offset Depths are relative to Offset Datum

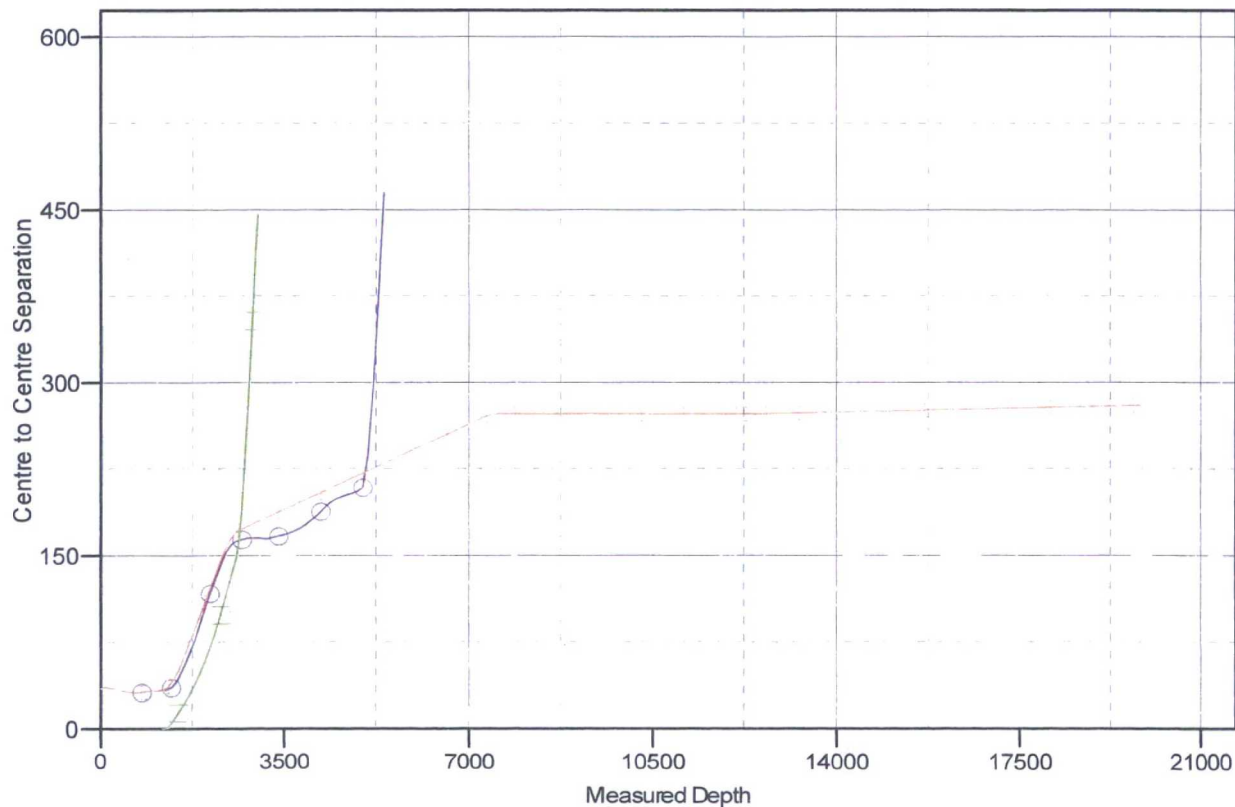
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: #704H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.42°

Ladder Plot



LEGEND

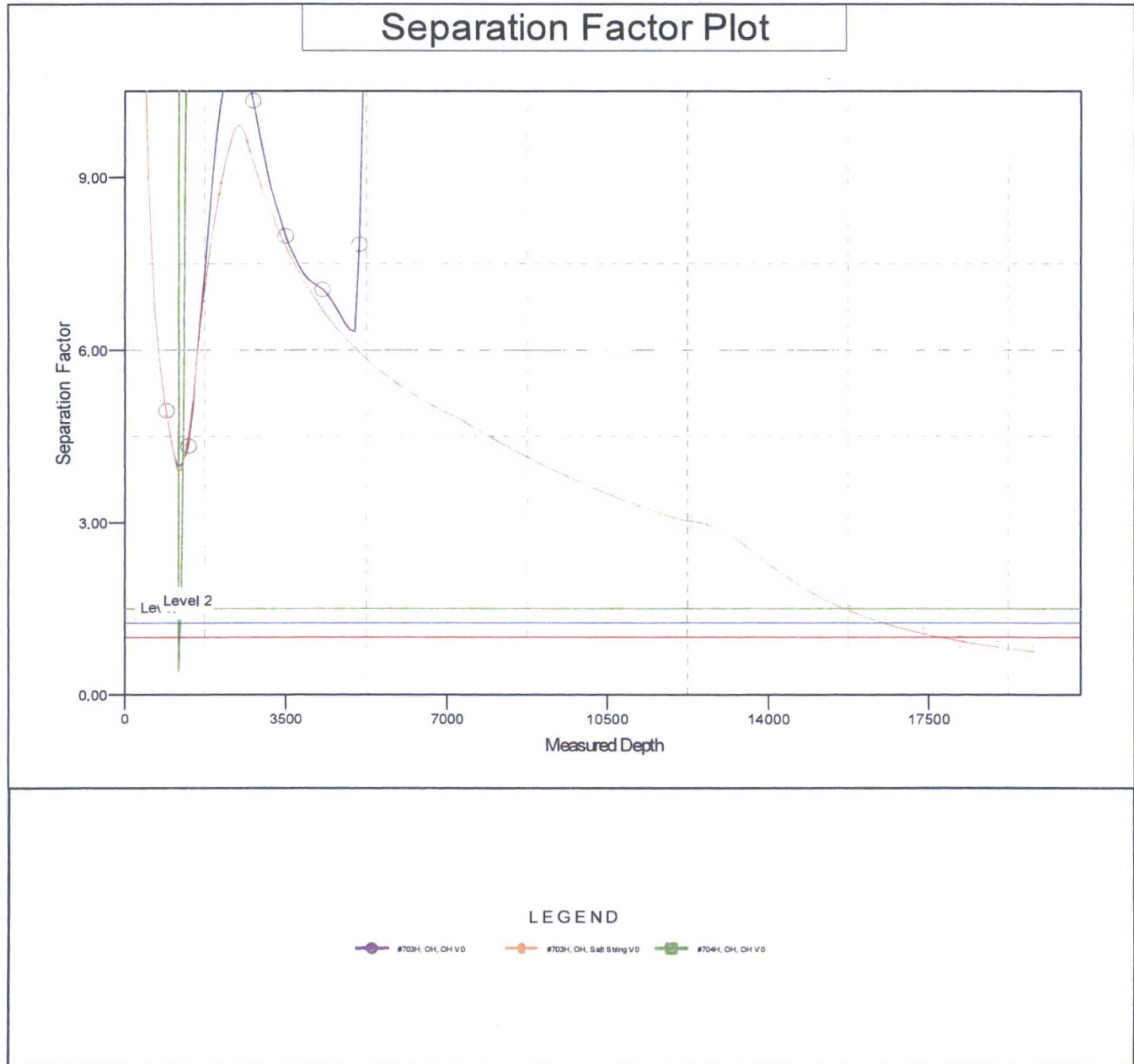
—○— #703H, OH, OH V0
 —○— #703H, OH, Salt String V0
 —□— #704H, OH, OH V0

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Reference Site: Caballo 23 Fed Com
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Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.14
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB = 25' @ 3366.0usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: #704H
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone
 Grid Convergence at Surface is: 0.42°





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com

#704H

ST01

Plan: Plan #1

Standard Planning Report

27 April, 2018



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 #1

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3366.0usft
 MD Reference: KB = 25' @ 3366.0usft
 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 #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	1,164.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	355.33	

Plan Survey Tool Program	Date 4/25/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	1,164.0	19,849.1 Plan #1 (ST01)	MWD	
			OWSG MWD - Standard	

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 #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
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	
1,357.9	3.00	190.00	1,357.9	1.6	-3.5	3.00	2.83	164.24	169.40	
2,357.9	3.00	190.00	2,356.5	-49.9	-12.5	0.00	0.00	0.00	0.00	
2,638.1	6.45	250.21	2,635.8	-62.5	-28.6	2.00	1.23	21.49	87.78	
7,357.2	6.45	250.21	7,324.9	-242.2	-527.8	0.00	0.00	0.00	0.00	
7,679.9	0.00	0.00	7,647.0	-248.3	-544.9	2.00	-2.00	0.00	180.00	
11,939.9	0.00	0.00	11,907.0	-248.3	-544.9	0.00	0.00	0.00	0.00	
12,686.7	89.61	359.56	12,384.5	225.9	-548.6	12.00	12.00	-0.06	359.56	
19,849.1	89.61	359.56	12,433.0	7,388.0	-604.0	0.00	0.00	0.00	0.00	PBHL (Caballo 23 Fed)

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 #1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
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
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	2.4	0.83	0.38	-53.07
409.0	0.40	303.35	409.0	3.4	-1.9	3.5	0.62	-0.62	-4.40
536.0	0.40	295.55	536.0	3.8	-2.7	4.0	0.04	0.00	-6.14
663.0	0.09	302.73	663.0	4.1	-3.1	4.3	0.24	-0.24	5.65
790.0	0.09	223.23	790.0	4.1	-3.3	4.3	0.09	0.00	-62.60
917.0	0.09	142.15	917.0	3.9	-3.3	4.2	0.09	0.00	-63.84
1,045.0	0.09	54.15	1,045.0	3.9	-3.2	4.1	0.10	0.00	-68.75
1,106.0	0.09	20.92	1,106.0	4.0	-3.1	4.2	0.08	0.00	-54.48
1,164.0	0.09	20.92	1,164.0	4.0	-3.1	4.3	0.00	0.00	0.00
1,200.0	0.09	20.92	1,200.0	4.1	-3.0	4.3	0.00	0.00	0.00
1,255.0	0.09	20.92	1,255.0	4.2	-3.0	4.4	0.00	0.00	0.00
1,300.0	1.26	189.56	1,300.0	3.7	-3.1	4.0	3.00	2.60	374.76
1,357.9	3.00	190.00	1,357.9	1.6	-3.5	1.9	3.00	3.00	0.75
1,400.0	3.00	190.00	1,399.9	-0.6	-3.8	-0.3	0.00	0.00	0.00
1,500.0	3.00	190.00	1,499.7	-5.7	-4.7	-5.3	0.00	0.00	0.00
1,600.0	3.00	190.00	1,599.6	-10.9	-5.7	-10.4	0.00	0.00	0.00
1,700.0	3.00	190.00	1,699.5	-16.0	-6.6	-15.4	0.00	0.00	0.00
1,800.0	3.00	190.00	1,799.3	-21.2	-7.5	-20.5	0.00	0.00	0.00
1,900.0	3.00	190.00	1,899.2	-26.3	-8.4	-25.6	0.00	0.00	0.00
2,000.0	3.00	190.00	1,999.0	-31.5	-9.3	-30.6	0.00	0.00	0.00
2,100.0	3.00	190.00	2,098.9	-36.7	-10.2	-35.7	0.00	0.00	0.00
2,200.0	3.00	190.00	2,198.8	-41.8	-11.1	-40.8	0.00	0.00	0.00
2,300.0	3.00	190.00	2,298.6	-47.0	-12.0	-45.8	0.00	0.00	0.00
2,357.9	3.00	190.00	2,356.5	-49.9	-12.5	-48.8	0.00	0.00	0.00
2,400.0	3.15	205.50	2,398.5	-52.1	-13.2	-50.8	2.00	0.35	36.85
2,500.0	4.21	232.43	2,498.3	-56.8	-17.3	-55.2	2.00	1.06	26.93
2,600.0	5.79	246.69	2,597.9	-61.0	-24.9	-58.8	2.00	1.58	14.26
2,638.1	6.45	250.21	2,635.8	-62.5	-28.6	-60.0	2.00	1.74	9.23
2,700.0	6.45	250.21	2,697.3	-64.9	-35.2	-61.8	0.00	0.00	0.00
2,800.0	6.45	250.21	2,796.7	-68.7	-45.8	-64.7	0.00	0.00	0.00
2,900.0	6.45	250.21	2,896.0	-72.5	-56.3	-67.6	0.00	0.00	0.00
3,000.0	6.45	250.21	2,995.4	-76.3	-66.9	-70.6	0.00	0.00	0.00
3,100.0	6.45	250.21	3,094.8	-80.1	-77.5	-73.5	0.00	0.00	0.00
3,200.0	6.45	250.21	3,194.1	-83.9	-88.1	-76.4	0.00	0.00	0.00
3,300.0	6.45	250.21	3,293.5	-87.7	-98.7	-79.4	0.00	0.00	0.00
3,400.0	6.45	250.21	3,392.9	-91.5	-109.2	-82.3	0.00	0.00	0.00
3,500.0	6.45	250.21	3,492.2	-95.3	-119.8	-85.2	0.00	0.00	0.00
3,600.0	6.45	250.21	3,591.6	-99.1	-130.4	-88.2	0.00	0.00	0.00
3,700.0	6.45	250.21	3,691.0	-102.9	-141.0	-91.1	0.00	0.00	0.00
3,800.0	6.45	250.21	3,790.3	-106.7	-151.5	-94.0	0.00	0.00	0.00
3,900.0	6.45	250.21	3,889.7	-110.5	-162.1	-97.0	0.00	0.00	0.00
4,000.0	6.45	250.21	3,989.1	-114.4	-172.7	-99.9	0.00	0.00	0.00
4,100.0	6.45	250.21	4,088.4	-118.2	-183.3	-102.8	0.00	0.00	0.00
4,200.0	6.45	250.21	4,187.8	-122.0	-193.9	-105.8	0.00	0.00	0.00
4,300.0	6.45	250.21	4,287.2	-125.8	-204.4	-108.7	0.00	0.00	0.00
4,400.0	6.45	250.21	4,386.5	-129.6	-215.0	-111.6	0.00	0.00	0.00
4,500.0	6.45	250.21	4,485.9	-133.4	-225.6	-114.6	0.00	0.00	0.00
4,600.0	6.45	250.21	4,585.3	-137.2	-236.2	-117.5	0.00	0.00	0.00
4,700.0	6.45	250.21	4,684.6	-141.0	-246.7	-120.4	0.00	0.00	0.00
4,800.0	6.45	250.21	4,784.0	-144.8	-257.3	-123.4	0.00	0.00	0.00
4,900.0	6.45	250.21	4,883.4	-148.6	-267.9	-126.3	0.00	0.00	0.00
5,000.0	6.45	250.21	4,982.7	-152.4	-278.5	-129.2	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
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Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	6.45	250.21	5,082.1	-156.2	-289.1	-132.2	0.00	0.00	0.00
5,200.0	6.45	250.21	5,181.5	-160.0	-299.6	-135.1	0.00	0.00	0.00
5,300.0	6.45	250.21	5,280.8	-163.8	-310.2	-138.0	0.00	0.00	0.00
5,400.0	6.45	250.21	5,380.2	-167.6	-320.8	-141.0	0.00	0.00	0.00
5,500.0	6.45	250.21	5,479.5	-171.5	-331.4	-143.9	0.00	0.00	0.00
5,600.0	6.45	250.21	5,578.9	-175.3	-341.9	-146.8	0.00	0.00	0.00
5,700.0	6.45	250.21	5,678.3	-179.1	-352.5	-149.7	0.00	0.00	0.00
5,800.0	6.45	250.21	5,777.6	-182.9	-363.1	-152.7	0.00	0.00	0.00
5,900.0	6.45	250.21	5,877.0	-186.7	-373.7	-155.6	0.00	0.00	0.00
6,000.0	6.45	250.21	5,976.4	-190.5	-384.3	-158.5	0.00	0.00	0.00
6,100.0	6.45	250.21	6,075.7	-194.3	-394.8	-161.5	0.00	0.00	0.00
6,200.0	6.45	250.21	6,175.1	-198.1	-405.4	-164.4	0.00	0.00	0.00
6,300.0	6.45	250.21	6,274.5	-201.9	-416.0	-167.3	0.00	0.00	0.00
6,400.0	6.45	250.21	6,373.8	-205.7	-426.6	-170.3	0.00	0.00	0.00
6,500.0	6.45	250.21	6,473.2	-209.5	-437.1	-173.2	0.00	0.00	0.00
6,600.0	6.45	250.21	6,572.6	-213.3	-447.7	-176.1	0.00	0.00	0.00
6,700.0	6.45	250.21	6,671.9	-217.1	-458.3	-179.1	0.00	0.00	0.00
6,800.0	6.45	250.21	6,771.3	-220.9	-468.9	-182.0	0.00	0.00	0.00
6,900.0	6.45	250.21	6,870.7	-224.7	-479.5	-184.9	0.00	0.00	0.00
7,000.0	6.45	250.21	6,970.0	-228.6	-490.0	-187.9	0.00	0.00	0.00
7,100.0	6.45	250.21	7,069.4	-232.4	-500.6	-190.8	0.00	0.00	0.00
7,200.0	6.45	250.21	7,168.8	-236.2	-511.2	-193.7	0.00	0.00	0.00
7,300.0	6.45	250.21	7,268.1	-240.0	-521.8	-196.7	0.00	0.00	0.00
7,357.2	6.45	250.21	7,324.9	-242.2	-527.8	-198.3	0.00	0.00	0.00
7,400.0	5.60	250.21	7,367.5	-243.7	-532.0	-199.5	2.00	-2.00	0.00
7,500.0	3.60	250.21	7,467.2	-246.4	-539.6	-201.6	2.00	-2.00	0.00
7,600.0	1.60	250.21	7,567.1	-247.9	-543.9	-202.8	2.00	-2.00	0.00
7,679.9	0.00	0.00	7,647.0	-248.3	-544.9	-203.1	2.00	-2.00	0.00
7,700.0	0.00	0.00	7,667.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,767.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,867.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,967.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,067.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,167.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,267.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,367.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,467.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,567.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,667.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,767.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,867.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,967.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,067.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,167.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,267.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,367.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,467.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,567.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,667.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,767.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,867.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,967.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,067.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,167.1	-248.3	-544.9	-203.1	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
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Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3366.0usft
MD Reference: KB = 25' @ 3366.0usft
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)
10,300.0	0.00	0.00	10,267.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,367.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,467.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,567.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,667.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,767.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,867.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,967.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,067.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,167.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,267.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,367.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,500.0	0.00	0.00	11,467.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,567.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,700.0	0.00	0.00	11,667.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,800.0	0.00	0.00	11,767.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,900.0	0.00	0.00	11,867.1	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,939.9	0.00	0.00	11,907.0	-248.3	-544.9	-203.1	0.00	0.00	0.00
11,950.0	1.21	359.56	11,917.1	-248.2	-544.9	-203.0	12.00	12.00	0.00
11,975.0	4.21	359.56	11,942.1	-247.0	-544.9	-201.8	12.00	12.00	0.00
12,000.0	7.21	359.56	11,966.9	-244.5	-544.9	-199.3	12.00	12.00	0.00
12,025.0	10.21	359.56	11,991.6	-240.7	-545.0	-195.5	12.00	12.00	0.00
12,050.0	13.21	359.56	12,016.1	-235.7	-545.0	-190.5	12.00	12.00	0.00
12,075.0	16.21	359.56	12,040.3	-229.3	-545.0	-184.1	12.00	12.00	0.00
12,100.0	19.21	359.56	12,064.1	-221.7	-545.1	-176.6	12.00	12.00	0.00
12,125.0	22.21	359.56	12,087.5	-212.9	-545.2	-167.7	12.00	12.00	0.00
12,150.0	25.21	359.56	12,110.4	-202.8	-545.3	-157.7	12.00	12.00	0.00
12,175.0	28.21	359.56	12,132.7	-191.6	-545.3	-146.5	12.00	12.00	0.00
12,200.0	31.21	359.56	12,154.4	-179.2	-545.4	-134.2	12.00	12.00	0.00
12,225.0	34.21	359.56	12,175.5	-165.7	-545.5	-120.7	12.00	12.00	0.00
12,250.0	37.21	359.56	12,195.7	-151.1	-545.7	-106.1	12.00	12.00	0.00
12,275.0	40.21	359.56	12,215.3	-135.5	-545.8	-90.5	12.00	12.00	0.00
12,300.0	43.21	359.56	12,233.9	-118.8	-545.9	-74.0	12.00	12.00	0.00
12,325.0	46.21	359.56	12,251.7	-101.2	-546.0	-56.4	12.00	12.00	0.00
12,350.0	49.21	359.56	12,268.5	-82.8	-546.2	-38.0	12.00	12.00	0.00
12,375.0	52.21	359.56	12,284.3	-63.4	-546.3	-18.7	12.00	12.00	0.00
12,400.0	55.21	359.56	12,299.1	-43.3	-546.5	1.4	12.00	12.00	0.00
12,425.0	58.21	359.56	12,312.8	-22.4	-546.6	22.3	12.00	12.00	0.00
12,450.0	61.21	359.56	12,325.5	-0.8	-546.8	43.8	12.00	12.00	0.00
12,475.0	64.21	359.56	12,336.9	21.4	-547.0	65.9	12.00	12.00	0.00
12,500.0	67.21	359.56	12,347.2	44.2	-547.2	88.7	12.00	12.00	0.00
12,525.0	70.21	359.56	12,356.3	67.5	-547.3	111.9	12.00	12.00	0.00
12,550.0	73.21	359.56	12,364.1	91.2	-547.5	135.6	12.00	12.00	0.00
12,575.0	76.21	359.56	12,370.7	115.4	-547.7	159.6	12.00	12.00	0.00
12,600.0	79.21	359.56	12,376.0	139.8	-547.9	184.0	12.00	12.00	0.00
12,625.0	82.21	359.56	12,380.1	164.4	-548.1	208.6	12.00	12.00	0.00
12,650.0	85.21	359.56	12,382.8	189.3	-548.3	233.3	12.00	12.00	0.00
12,675.0	88.21	359.56	12,384.2	214.2	-548.5	258.2	12.00	12.00	0.00
12,686.7	89.61	359.56	12,384.5	225.9	-548.6	269.9	12.00	12.00	0.00
12,700.0	89.61	359.56	12,384.5	239.2	-548.7	283.2	0.00	0.00	0.00
12,800.0	89.61	359.56	12,385.2	339.2	-549.4	382.9	0.00	0.00	0.00
12,900.0	89.61	359.56	12,385.9	439.2	-550.2	482.6	0.00	0.00	0.00
13,000.0	89.61	359.56	12,386.6	539.2	-551.0	582.3	0.00	0.00	0.00
13,100.0	89.61	359.56	12,387.3	639.2	-551.8	682.1	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
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Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3366.0usft
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	89.61	359.56	12,387.9	739.2	-552.5	781.8	0.00	0.00	0.00
13,300.0	89.61	359.56	12,388.6	839.2	-553.3	881.5	0.00	0.00	0.00
13,400.0	89.61	359.56	12,389.3	939.2	-554.1	981.2	0.00	0.00	0.00
13,500.0	89.61	359.56	12,390.0	1,039.2	-554.9	1,081.0	0.00	0.00	0.00
13,600.0	89.61	359.56	12,390.6	1,139.2	-555.6	1,180.7	0.00	0.00	0.00
13,700.0	89.61	359.56	12,391.3	1,239.2	-556.4	1,280.4	0.00	0.00	0.00
13,800.0	89.61	359.56	12,392.0	1,339.2	-557.2	1,380.1	0.00	0.00	0.00
13,900.0	89.61	359.56	12,392.7	1,439.2	-558.0	1,479.9	0.00	0.00	0.00
14,000.0	89.61	359.56	12,393.4	1,539.2	-558.7	1,579.6	0.00	0.00	0.00
14,100.0	89.61	359.56	12,394.0	1,639.2	-559.5	1,679.3	0.00	0.00	0.00
14,200.0	89.61	359.56	12,394.7	1,739.2	-560.3	1,779.0	0.00	0.00	0.00
14,300.0	89.61	359.56	12,395.4	1,839.2	-561.1	1,878.8	0.00	0.00	0.00
14,400.0	89.61	359.56	12,396.1	1,939.2	-561.8	1,978.5	0.00	0.00	0.00
14,500.0	89.61	359.56	12,396.7	2,039.1	-562.6	2,078.2	0.00	0.00	0.00
14,600.0	89.61	359.56	12,397.4	2,139.1	-563.4	2,177.9	0.00	0.00	0.00
14,700.0	89.61	359.56	12,398.1	2,239.1	-564.2	2,277.7	0.00	0.00	0.00
14,800.0	89.61	359.56	12,398.8	2,339.1	-564.9	2,377.4	0.00	0.00	0.00
14,900.0	89.61	359.56	12,399.5	2,439.1	-565.7	2,477.1	0.00	0.00	0.00
15,000.0	89.61	359.56	12,400.1	2,539.1	-566.5	2,576.8	0.00	0.00	0.00
15,100.0	89.61	359.56	12,400.8	2,639.1	-567.2	2,676.6	0.00	0.00	0.00
15,200.0	89.61	359.56	12,401.5	2,739.1	-568.0	2,776.3	0.00	0.00	0.00
15,300.0	89.61	359.56	12,402.2	2,839.1	-568.8	2,876.0	0.00	0.00	0.00
15,400.0	89.61	359.56	12,402.8	2,939.1	-569.6	2,975.7	0.00	0.00	0.00
15,500.0	89.61	359.56	12,403.5	3,039.1	-570.3	3,075.5	0.00	0.00	0.00
15,600.0	89.61	359.56	12,404.2	3,139.1	-571.1	3,175.2	0.00	0.00	0.00
15,700.0	89.61	359.56	12,404.9	3,239.1	-571.9	3,274.9	0.00	0.00	0.00
15,800.0	89.61	359.56	12,405.6	3,339.1	-572.7	3,374.6	0.00	0.00	0.00
15,900.0	89.61	359.56	12,406.2	3,439.1	-573.4	3,474.4	0.00	0.00	0.00
16,000.0	89.61	359.56	12,406.9	3,539.1	-574.2	3,574.1	0.00	0.00	0.00
16,100.0	89.61	359.56	12,407.6	3,639.1	-575.0	3,673.8	0.00	0.00	0.00
16,200.0	89.61	359.56	12,408.3	3,739.1	-575.8	3,773.5	0.00	0.00	0.00
16,300.0	89.61	359.56	12,408.9	3,839.1	-576.5	3,873.3	0.00	0.00	0.00
16,400.0	89.61	359.56	12,409.6	3,939.0	-577.3	3,973.0	0.00	0.00	0.00
16,500.0	89.61	359.56	12,410.3	4,039.0	-578.1	4,072.7	0.00	0.00	0.00
16,600.0	89.61	359.56	12,411.0	4,139.0	-578.9	4,172.4	0.00	0.00	0.00
16,700.0	89.61	359.56	12,411.7	4,239.0	-579.6	4,272.2	0.00	0.00	0.00
16,800.0	89.61	359.56	12,412.3	4,339.0	-580.4	4,371.9	0.00	0.00	0.00
16,900.0	89.61	359.56	12,413.0	4,439.0	-581.2	4,471.6	0.00	0.00	0.00
17,000.0	89.61	359.56	12,413.7	4,539.0	-582.0	4,571.3	0.00	0.00	0.00
17,100.0	89.61	359.56	12,414.4	4,639.0	-582.7	4,671.1	0.00	0.00	0.00
17,200.0	89.61	359.56	12,415.0	4,739.0	-583.5	4,770.8	0.00	0.00	0.00
17,300.0	89.61	359.56	12,415.7	4,839.0	-584.3	4,870.5	0.00	0.00	0.00
17,400.0	89.61	359.56	12,416.4	4,939.0	-585.0	4,970.2	0.00	0.00	0.00
17,500.0	89.61	359.56	12,417.1	5,039.0	-585.8	5,070.0	0.00	0.00	0.00
17,600.0	89.61	359.56	12,417.8	5,139.0	-586.6	5,169.7	0.00	0.00	0.00
17,700.0	89.61	359.56	12,418.4	5,239.0	-587.4	5,269.4	0.00	0.00	0.00
17,800.0	89.61	359.56	12,419.1	5,339.0	-588.1	5,369.1	0.00	0.00	0.00
17,900.0	89.61	359.56	12,419.8	5,439.0	-588.9	5,468.9	0.00	0.00	0.00
18,000.0	89.61	359.56	12,420.5	5,539.0	-589.7	5,568.6	0.00	0.00	0.00
18,100.0	89.61	359.56	12,421.1	5,639.0	-590.5	5,668.3	0.00	0.00	0.00
18,200.0	89.61	359.56	12,421.8	5,739.0	-591.2	5,768.0	0.00	0.00	0.00
18,300.0	89.61	359.56	12,422.5	5,838.9	-592.0	5,867.8	0.00	0.00	0.00
18,400.0	89.61	359.56	12,423.2	5,938.9	-592.8	5,967.5	0.00	0.00	0.00
18,500.0	89.61	359.56	12,423.9	6,038.9	-593.6	6,067.2	0.00	0.00	0.00

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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)
18,600.0	89.61	359.56	12,424.5	6,138.9	-594.3	6,166.9	0.00	0.00	0.00
18,700.0	89.61	359.56	12,425.2	6,238.9	-595.1	6,266.7	0.00	0.00	0.00
18,800.0	89.61	359.56	12,425.9	6,338.9	-595.9	6,366.4	0.00	0.00	0.00
18,900.0	89.61	359.56	12,426.6	6,438.9	-596.7	6,466.1	0.00	0.00	0.00
19,000.0	89.61	359.56	12,427.2	6,538.9	-597.4	6,565.8	0.00	0.00	0.00
19,100.0	89.61	359.56	12,427.9	6,638.9	-598.2	6,665.6	0.00	0.00	0.00
19,200.0	89.61	359.56	12,428.6	6,738.9	-599.0	6,765.3	0.00	0.00	0.00
19,300.0	89.61	359.56	12,429.3	6,838.9	-599.8	6,865.0	0.00	0.00	0.00
19,400.0	89.61	359.56	12,430.0	6,938.9	-600.5	6,964.7	0.00	0.00	0.00
19,500.0	89.61	359.56	12,430.6	7,038.9	-601.3	7,064.5	0.00	0.00	0.00
19,600.0	89.61	359.56	12,431.3	7,138.9	-602.1	7,164.2	0.00	0.00	0.00
19,700.0	89.61	359.56	12,432.0	7,238.9	-602.8	7,263.9	0.00	0.00	0.00
19,800.0	89.61	359.56	12,432.7	7,338.9	-603.6	7,363.6	0.00	0.00	0.00
19,849.1	89.61	359.56	12,433.0	7,388.0	-604.0	7,412.6	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Caballo 23 Fed Co - plan misses target center by 42.0usft at 12499.0usft MD (12346.8 TVD, 43.3 N, -547.2 E) - Point	0.00	0.00	12,385.0	26.0	-550.0	404,526.00	784,602.00	32° 6' 34.862 N	103° 32' 51.551 W
PBHL (Caballo 23 Fed C - plan hits target center - Rectangle (sides W60.0 H0.0 D7,362.0)	90.00	359.58	12,433.0	7,388.0	-604.0	411,888.00	784,548.00	32° 7' 47.715 N	103° 32' 51.554 W



Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com #704H

Plan #1

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

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

WELL DETAILS: #704H

Ground Level: 3341.0
KB = 25' @ 3366.0usft
Northing: 404500.00 Easting: 785152.00 32° @ 34,565 N 103°32' 45.159 W



Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.42°
Magnetic Field
Strength: 47785.6nT
Dip Angle: 59.95°
Date: 4/25/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.84° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

SECTION DETAILS

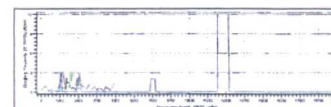
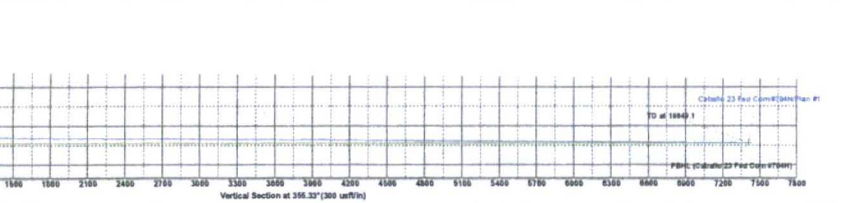
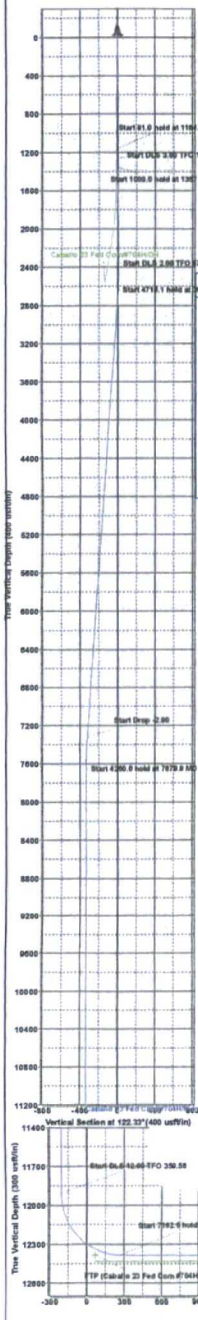
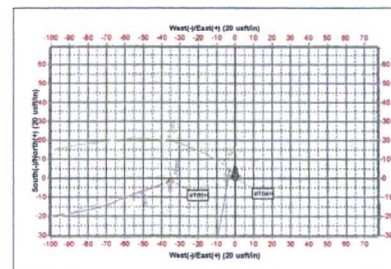
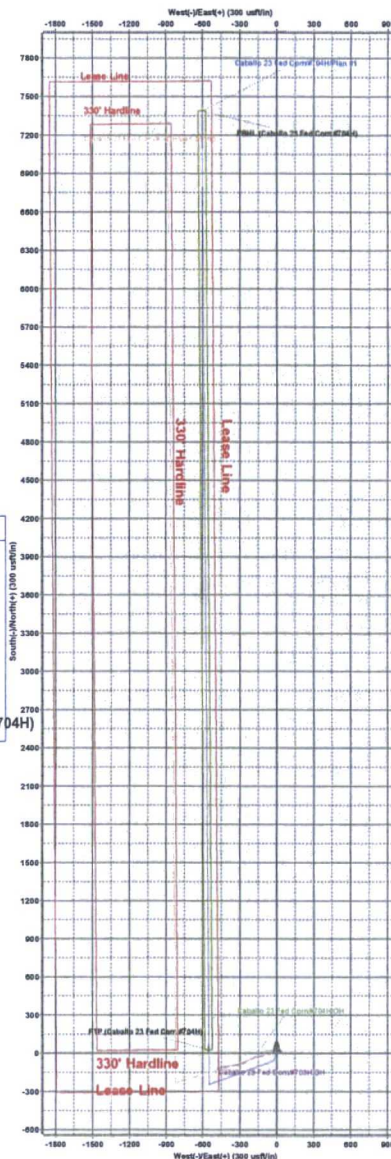
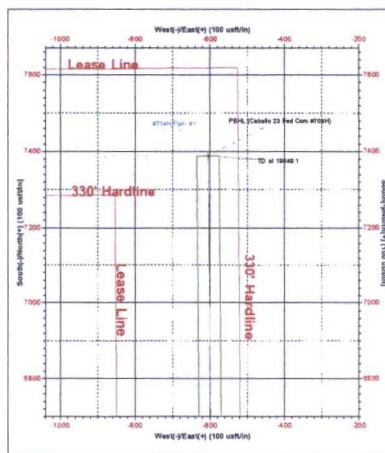
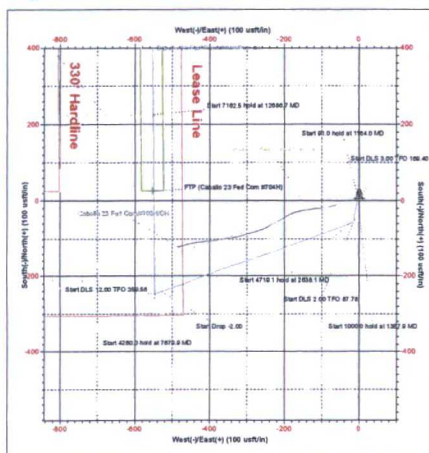
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	1164.0	0.09	20.92	1164.0	4.0	-3.1	0.00	0.00	4.3	
2	1255.0	0.09	20.92	1255.0	4.2	-3.0	0.00	0.00	4.4	
3	1357.9	3.00	190.00	1357.9	1.6	-3.5	3.00	169.40	1.9	
4	2357.9	3.00	190.00	2356.5	-49.9	-12.5	0.00	0.00	-48.8	
5	2638.1	6.45	250.21	2635.8	-62.5	-28.6	2.00	87.78	-60.0	
6	7357.2	6.45	250.21	7324.9	-242.2	-527.8	0.00	0.00	-198.3	
7	7679.9	0.00	0.00	7647.0	-248.3	-544.9	2.00	180.00	-203.1	
8	11939.9	0.00	0.00	11907.0	-248.3	-544.9	0.00	0.00	-203.1	
9	12686.7	89.61	359.56	12384.5	225.9	-548.6	12.00	359.56	269.9	
10	19849.1	89.61	359.56	12433.0	7388.0	-604.0	0.00	0.00	7412.6	PBHL (Caballo 23 Fed Com #704H)

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 #704H)	12385.0	26.0	-559.0	404526.00	784832.00
PBHL (Caballo 23 Fed Com #704H)	12433.0	7388.0	-604.0	411888.00	784548.00



Lea County, NM (NAD 83 NME)
Caballo 23 Fed Com #704H
Plan #1