

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOCD-HOBBS
HOBBS OCDA73 11-787
FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

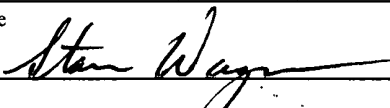
AUG 18 2011

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NM108503	
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator EOG Resources Inc.		7. Unit or CA Agreement Name and No	
3a. Address P.O. Box 2267 Midland, Texas 79702		8. Lease Name and Well No. <3848> Caballo 23 Federal 6H	
3b. Phone No (include area code) 432-686-3689		9. API Well No. 30-025-40248	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 20' FNL & 1320' FEL, U/L B Per SW At proposed prod zone 330' FSL & 1320' FEL, U/L P UNORTHODOX LOCATION		10. Field and Pool, or Exploratory Red Hills; Bone Spring <51020>	
14. Distance in miles and direction from nearest town or post office* Approximately +/- 28 miles Southwest from Jal, NM		11. Sec., T., R., M., or Blk and Survey or Area Sec 23, T25S, R33E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 20'		12. County or Parish Lea	
16. No. of Acres in lease 1480		13. State NM	
17. Spacing Unit dedicated to this well 320			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 880' to Caballo 4H		20. BLM/BIA Bond No. on file NM 2308	
19. Proposed Depth 14176 MD - 9450 TVD			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3345' GL		22. Approximate date work will start* 9/1/2011	
		23. Estimated duration 20 days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM |

25. Signature 	Name (Printed/Typed) Stan Wagner	Date 6/8/2011
Title Regulatory Analyst		
Approved by (Signautre) /s/ Don Peterson	Name (Printed/Typed) CARLSBAD FIELD OFFICE	Date AUG 12 2011
Title FIELD MANAGER		

Application approval 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.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

OCD CONDITION OF APPROVAL for Drilling
Intent to drill ONLY --- CANNOT produce until the Non-Standard
Location has been approved by OCD Santa Fe office

KZ 08/29/11

AUG 29 2011

SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

**EOG RESOURCES, INC.
CABALLO 23 FEDERAL NO. 6H**

HOBBS OCD

AUG 18 2011

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1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,100'
Top of Salt	1,410'
Base of Salt	4,830'
Lamar	5,070'
Bell Canyon	5,100'
Cherry Canyon	6,090'
Bone Spring Lime	9,220'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,090'	Oil
Bone Spring Lime	9,220'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 11.75" casing at 1,145' and circulating cement back to surface.

4. CASING PROGRAM - NEW

see COA

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 1145'	11.750"	4240#	H 355-40	STC	1.125	1.25	1.60
11.00"	0 - 4000'	8.625"	32#	J55	LTC	1.125	1.25	1.60
11.00"	4000' - 5000'	8.625"	32#	HCK55	LTC	1.125	1.25	1.60
7.875"	0' - 14,176'	5.5"	20#	P110 or HCP110	NSCC	1.125	1.25	1.60

EOG RESOURCES, INC.
CABALLO 23 FEDERAL NO. 6H

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1,145'	300	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake
	200	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,000'	700	12.7	2.22	Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,176'	200	10.8	3.67	Lead: 60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free
	300	11.8	2.38	Middle: 50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
	900	14.2	1.28	Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2.

Even though 10,000 psi BOPE will be utilized, 3000 psi BOPE is adequate for this application. Due to the 3000 psi BOPE requirement no FIT tests are planned.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 3000/ 250 psig and the annular preventer to 2500/ 250 psig.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000/ 250 psig and the annular preventer to 2500/ 250 psig.

EOG RESOURCES, INC.
CABALLO 23 FEDERAL NO. 6H

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Hydraulically operated choke will not be installed prior to the setting and cementing of the intermediate casing string, but will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The applicable depths and properties of the drilling fluid systems are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,145' <i>1180</i>	Fresh water + Gel	8.6-8.8	28-34	N/c
1,145' - 5,000'	Saturated Brine water	10.0-10.2	28-34	N/c
5,000' - 14,176'	Saturated Brine water	9.1 - 9.5	28-34	N/c

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) A mud logging unit will be continuously monitoring drill penetration rate and hydrocarbon shows from intermediate casing point to TD.
- (D) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM: *See COA*

Open-hole logs are not planned for this well.

GR-CCL

Will be run in cased hole during completions phase of operations.

EOG RESOURCES, INC.
CABALLO 23 FEDERAL NO. 6H

**9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND
POTENTIAL HAZARDS:**

The estimated bottom hole temperature (BHT) at TD is 160 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4075 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one months. If the well is productive, an additional 90-120 days will be required for completion and testing before a decision is made to install permanent facilities.

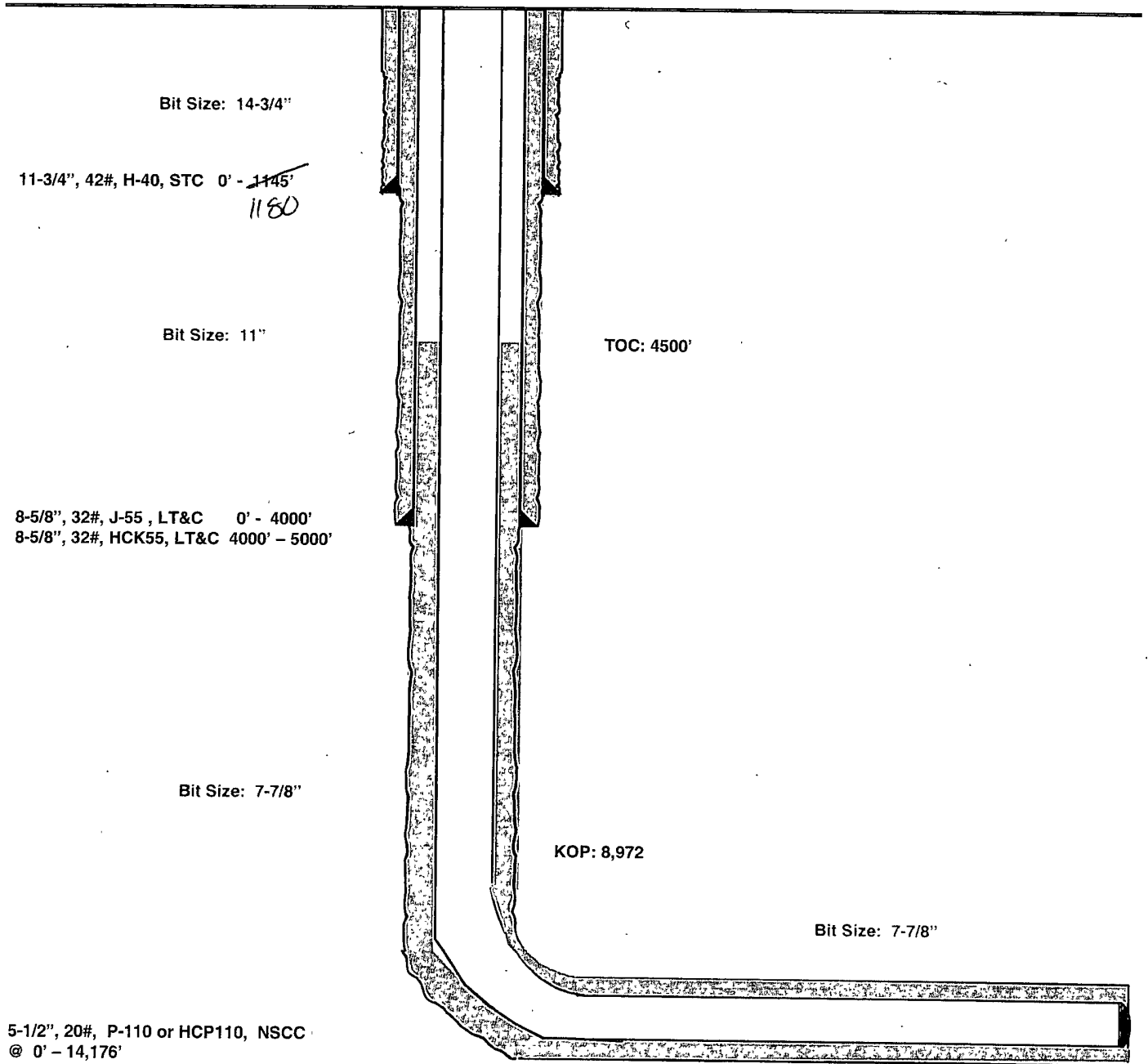
Caballo 23 Federal #6H
Red Hills
Lea County, New Mexico

20' FNL
1320' FEL
Section 23
T-25-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,375.8'
GL: 3,345.8'



Lateral: 14,176' MD, 9,450' TVD

BH Location: 330' FSL & 1320' FEL
Section 23
T-25-S, R-33-E



EOG Resources, Inc.

Lea County

Caballo 23 Federal

#6H

OH

HOBBS OCD

AUG 18 2011

Plan: Plan 1

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Pathfinder X&Y Report

02 June, 2011

PATHFINDER®

A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #6H
Project:	Lea County	TVD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Site:	Caballo 23 Federal	MD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Well:	#6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	EDM 5000.1 Single User Db

Project: Lea County	
Map System:	US State Plane 1927 (Exact solution)
Geo Datum:	NAD 1927 (NADCON CONUS)
Map Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

Site		Caballo 23 Federal			
Site Position:		Northing:	409,363.500 usft	Latitude:	32° 7' 22.915 N
From:	Map	Easting:	742,578.600 usft	Longitude:	103° 32' 59.175 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well:		#6H				
Well Position	+N/-S	0.00 usft	Northing:	409,417.200 usft	Latitude:	32° 7' 23.191 N
	+E/-W	0.00 usft	Easting:	746,100.000 usft	Longitude:	103° 32' 18.225 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,345.80 usft

Wellbore:	OH				
Magnetics:	Model Name:	Sample Date:	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/2/2011	7.56	60.12	48,600

Design:	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.56

Survey Tool Program		Date	6/2/2011		
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
0.00	14,176.08	Plan 1 (OH)	MWD	MWD - Standard	

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Project: Lea County			TVD Reference:			KB=30' @ 3375.80usft (Original Well Elev)		
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Well: #6H			North Reference:			Grid		
Wellbore: OH			Survey Calculation Method:			Minimum Curvature		
Design: Plan 1			Database:			EDM 5000.1 Single User Db		

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	-3,375.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
100.00	0.00	0.00	100.00	-3,275.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
200.00	0.00	0.00	200.00	-3,175.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
300.00	0.00	0.00	300.00	-3,075.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
400.00	0.00	0.00	400.00	-2,975.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
500.00	0.00	0.00	500.00	-2,875.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
600.00	0.00	0.00	600.00	-2,775.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
700.00	0.00	0.00	700.00	-2,675.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
800.00	0.00	0.00	800.00	-2,575.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
900.00	0.00	0.00	900.00	-2,475.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,000.00	0.00	0.00	1,000.00	-2,375.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,100.00	0.00	0.00	1,100.00	-2,275.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,200.00	0.00	0.00	1,200.00	-2,175.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,300.00	0.00	0.00	1,300.00	-2,075.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,400.00	0.00	0.00	1,400.00	-1,975.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,500.00	0.00	0.00	1,500.00	-1,875.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,600.00	0.00	0.00	1,600.00	-1,775.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,700.00	0.00	0.00	1,700.00	-1,675.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,800.00	0.00	0.00	1,800.00	-1,575.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
1,900.00	0.00	0.00	1,900.00	-1,475.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,000.00	0.00	0.00	2,000.00	-1,375.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,100.00	0.00	0.00	2,100.00	-1,275.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,200.00	0.00	0.00	2,200.00	-1,175.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,300.00	0.00	0.00	2,300.00	-1,075.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,400.00	0.00	0.00	2,400.00	-975.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,500.00	0.00	0.00	2,500.00	-875.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,600.00	0.00	0.00	2,600.00	-775.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #6H
Project:	Lea County	TVD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Site:	Caballo 23 Federal	MD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Well:	#6H:	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan.1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.00	0.00	0.00	2,700.00	-675.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,800.00	0.00	0.00	2,800.00	-575.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
2,900.00	0.00	0.00	2,900.00	-475.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,000.00	0.00	0.00	3,000.00	-375.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,100.00	0.00	0.00	3,100.00	-275.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,200.00	0.00	0.00	3,200.00	-175.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,300.00	0.00	0.00	3,300.00	-75.80	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,400.00	0.00	0.00	3,400.00	24.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,500.00	0.00	0.00	3,500.00	124.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,600.00	0.00	0.00	3,600.00	224.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,700.00	0.00	0.00	3,700.00	324.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,800.00	0.00	0.00	3,800.00	424.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
3,900.00	0.00	0.00	3,900.00	524.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,000.00	0.00	0.00	4,000.00	624.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,100.00	0.00	0.00	4,100.00	724.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,200.00	0.00	0.00	4,200.00	824.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,300.00	0.00	0.00	4,300.00	924.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,400.00	0.00	0.00	4,400.00	1,024.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,500.00	0.00	0.00	4,500.00	1,124.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,600.00	0.00	0.00	4,600.00	1,224.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,700.00	0.00	0.00	4,700.00	1,324.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,800.00	0.00	0.00	4,800.00	1,424.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
4,900.00	0.00	0.00	4,900.00	1,524.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
5,000.00	0.00	0.00	5,000.00	1,624.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
5,100.00	0.00	0.00	5,100.00	1,724.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
5,200.00	0.00	0.00	5,200.00	1,824.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
5,300.00	0.00	0.00	5,300.00	1,924.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	

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Design:	Plan 1	Database:	EDM 5000.1 Single User Db

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5,400.00	0.00	0.00	5,400.00	2,024.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
5,500.00	0.00	0.00	5,500.00	2,124.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
5,600.00	0.00	0.00	5,600.00	2,224.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
5,700.00	0.00	0.00	5,700.00	2,324.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
5,800.00	0.00	0.00	5,800.00	2,424.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
5,900.00	0.00	0.00	5,900.00	2,524.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,000.00	0.00	0.00	6,000.00	2,624.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,100.00	0.00	0.00	6,100.00	2,724.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,200.00	0.00	0.00	6,200.00	2,824.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,300.00	0.00	0.00	6,300.00	2,924.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,400.00	0.00	0.00	6,400.00	3,024.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,500.00	0.00	0.00	6,500.00	3,124.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,600.00	0.00	0.00	6,600.00	3,224.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,700.00	0.00	0.00	6,700.00	3,324.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,800.00	0.00	0.00	6,800.00	3,424.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
6,900.00	0.00	0.00	6,900.00	3,524.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,000.00	0.00	0.00	7,000.00	3,624.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,100.00	0.00	0.00	7,100.00	3,724.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,200.00	0.00	0.00	7,200.00	3,824.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,300.00	0.00	0.00	7,300.00	3,924.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,400.00	0.00	0.00	7,400.00	4,024.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,500.00	0.00	0.00	7,500.00	4,124.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,600.00	0.00	0.00	7,600.00	4,224.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,700.00	0.00	0.00	7,700.00	4,324.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,800.00	0.00	0.00	7,800.00	4,424.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
7,900.00	0.00	0.00	7,900.00	4,524.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		
8,000.00	0.00	0.00	8,000.00	4,624.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00		

Company:	EOG Resources, Inc	Local Co-ordinate Reference:	Well #6H
Project:	Lea County	TVD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Site:	Caballo 23 Federal	MD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Well:	#6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,100.00	0.00	0 00	8,100.00	4,724.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,200.00	0.00	0.00	8,200.00	4,824.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,300.00	0.00	0.00	8,300.00	4,924.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,400.00	0.00	0.00	8,400.00	5,024.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,500.00	0.00	0.00	8,500.00	5,124.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,600.00	0.00	0.00	8,600.00	5,224.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,700.00	0.00	0.00	8,700.00	5,324.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,800.00	0.00	0.00	8,800.00	5,424.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,900.00	0.00	0.00	8,900.00	5,524.20	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,972.54	0.00	0.00	8,972.54	5,596.74	0.00	0.00	0.00	0.00	409,417.20	746,100.00	
8,975.00	0.30	179.56	8,975.00	5,599.20	-0.01	0.00	0.01	12.00	409,417.19	746,100.00	
9,000.00	3.30	179.56	8,999.98	5,624.18	-0.79	0.01	0.79	12.00	409,416.41	746,100.01	
9,025.00	6.30	179.56	9,024.89	5,649.09	-2.88	0.02	2.88	12.00	409,414.32	746,100.02	
9,050.00	9.30	179.56	9,049.66	5,673.86	-6.27	0.05	6.27	12.00	409,410.93	746,100.05	
9,075.00	12.30	179.56	9,074.22	5,698.42	-10.95	0.08	10.95	12.00	409,406.25	746,100.08	
9,100.00	15.30	179.56	9,098.49	5,722.69	-16.91	0.13	16.91	12.00	409,400.29	746,100.13	
9,125.00	18.30	179.56	9,122.42	5,746.62	-24.13	0.18	24.13	12.00	409,393.07	746,100.18	
9,150.00	21.30	179.56	9,145.94	5,770.14	-32.60	0.25	32.60	12.00	409,384.60	746,100.25	
9,175.00	24.30	179.56	9,168.99	5,793.19	-42.28	0.32	42.29	12.00	409,374.92	746,100.32	
9,200.00	27.30	179.56	9,191.49	5,815.69	-53.16	0.41	53.16	12.00	409,364.04	746,100.41	
9,225.00	30.30	179.56	9,213.40	5,837.60	-65.20	0.50	65.20	12.00	409,352.00	746,100.50	
9,250.00	33.30	179.56	9,234.65	5,858.85	-78.37	0.60	78.37	12.00	409,338.83	746,100.60	
9,275.00	36.30	179.56	9,255.17	5,879.37	-92.64	0.71	92.64	12.00	409,324.56	746,100.71	
9,300.00	39.30	179.56	9,274.93	5,899.13	-107.95	0.83	107.96	12.00	409,309.25	746,100.83	
9,325.00	42.30	179.56	9,293.85	5,918.05	-124.29	0.95	124.29	12.00	409,292.91	746,100.95	
9,350.00	45.30	179.56	9,311.89	5,936.09	-141.59	1.08	141.59	12.00	409,275.61	746,101.08	
9,375.00	48.30	179.56	9,329.01	5,953.21	-159.81	1.22	159.81	12.00	409,257.39	746,101.22	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #6H
Project:	Lea County	TVD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Site:	Caballo 23 Federal	MD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Well:	#6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	EDM 5000.1 Single User Db

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,400.00	51.30	179.56	9,345.14	5,969.34	-178.90	1.37	178.90	12.00	409,238.30	746,101.37
9,425.00	54.30	179.56	9,360.26	5,984.46	-198.81	1.52	198.81	12.00	409,218.39	746,101.52
9,450.00	57.30	179.56	9,374.31	5,998.51	-219.48	1.68	219.49	12.00	409,197.72	746,101.68
9,475.00	60.30	179.56	9,387.26	6,011.46	-240.86	1.84	240.87	12.00	409,176.34	746,101.84
9,500.00	63.30	179.56	9,399.08	6,023.28	-262.89	2.01	262.90	12.00	409,154.31	746,102.01
9,525.00	66.30	179.56	9,409.72	6,033.92	-285.50	2.18	285.51	12.00	409,131.70	746,102.18
9,550.00	69.30	179.56	9,419.17	6,043.37	-308.65	2.36	308.66	12.00	409,108.55	746,102.36
9,575.00	72.30	179.56	9,427.39	6,051.59	-332.25	2.54	332.26	12.00	409,084.95	746,102.54
9,600.00	75.30	179.56	9,434.37	6,058.57	-356.26	2.72	356.27	12.00	409,060.94	746,102.72
9,625.00	78.30	179.56	9,440.08	6,064.28	-380.59	2.91	380.60	12.00	409,036.61	746,102.91
9,650.00	81.30	179.56	9,444.51	6,068.71	-405.19	3.10	405.20	12.00	409,012.01	746,103.10
9,675.00	84.30	179.56	9,447.64	6,071.84	-429.99	3.29	430.00	12.00	408,987.21	746,103.29
9,700.00	87.30	179.56	9,449.47	6,073.67	-454.92	3.48	454.93	12.00	408,962.28	746,103.48
9,722.54	90.00	179.56	9,450.00	6,074.20	-477.45	3.65	477.47	12.00	408,939.75	746,103.65
9,800.00	90.00	179.56	9,450.00	6,074.20	-554.91	4.24	554.92	0.00	408,862.29	746,104.24
9,900.00	90.00	179.56	9,450.00	6,074.20	-654.91	5.01	654.92	0.00	408,762.29	746,105.01
10,000.00	90.00	179.56	9,450.00	6,074.20	-754.90	5.77	754.92	0.00	408,662.30	746,105.77
10,100.00	90.00	179.56	9,450.00	6,074.20	-854.90	6.54	854.92	0.00	408,562.30	746,106.54
10,200.00	90.00	179.56	9,450.00	6,074.20	-954.90	7.30	954.92	0.00	408,462.30	746,107.30
10,300.00	90.00	179.56	9,450.00	6,074.20	-1,054.89	8.07	1,054.92	0.00	408,362.31	746,108.07
10,400.00	90.00	179.56	9,450.00	6,074.20	-1,154.89	8.83	1,154.92	0.00	408,262.31	746,108.83
10,500.00	90.00	179.56	9,450.00	6,074.20	-1,254.89	9.59	1,254.92	0.00	408,162.31	746,109.59
10,600.00	90.00	179.56	9,450.00	6,074.20	-1,354.89	10.36	1,354.92	0.00	408,062.31	746,110.36
10,700.00	90.00	179.56	9,450.00	6,074.20	-1,454.88	11.12	1,454.92	0.00	407,962.32	746,111.12
10,800.00	90.00	179.56	9,450.00	6,074.20	-1,554.88	11.89	1,554.92	0.00	407,862.32	746,111.89
10,900.00	90.00	179.56	9,450.00	6,074.20	-1,654.88	12.65	1,654.92	0.00	407,762.32	746,112.65
11,000.00	90.00	179.56	9,450.00	6,074.20	-1,754.87	13.42	1,754.92	0.00	407,662.33	746,113.42

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #6H
Project:	Lea County	TVD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Site:	Caballo 23 Federal	MD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Well:	#6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan 1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
11,100.00	90.00	179.56	9,450.00	6,074.20	-1,854.87	14.18	1,854.92	0.00	407,562.33	746,114.18	
11,200.00	90.00	179.56	9,450.00	6,074.20	-1,954.87	14.95	1,954.92	0.00	407,462.33	746,114.95	
11,300.00	90.00	179.56	9,450.00	6,074.20	-2,054.86	15.71	2,054.92	0.00	407,362.34	746,115.71	
11,400.00	90.00	179.56	9,450.00	6,074.20	-2,154.86	16.48	2,154.92	0.00	407,262.34	746,116.48	
11,500.00	90.00	179.56	9,450.00	6,074.20	-2,254.86	17.24	2,254.92	0.00	407,162.34	746,117.24	
11,600.00	90.00	179.56	9,450.00	6,074.20	-2,354.86	18.00	2,354.92	0.00	407,062.34	746,118.00	
11,700.00	90.00	179.56	9,450.00	6,074.20	-2,454.85	18.77	2,454.92	0.00	406,962.35	746,118.77	
11,800.00	90.00	179.56	9,450.00	6,074.20	-2,554.85	19.53	2,554.92	0.00	406,862.35	746,119.53	
11,900.00	90.00	179.56	9,450.00	6,074.20	-2,654.85	20.30	2,654.92	0.00	406,762.35	746,120.30	
12,000.00	90.00	179.56	9,450.00	6,074.20	-2,754.84	21.06	2,754.92	0.00	406,662.36	746,121.06	
12,100.00	90.00	179.56	9,450.00	6,074.20	-2,854.84	21.83	2,854.92	0.00	406,562.36	746,121.83	
12,200.00	90.00	179.56	9,450.00	6,074.20	-2,954.84	22.59	2,954.92	0.00	406,462.36	746,122.59	
12,300.00	90.00	179.56	9,450.00	6,074.20	-3,054.84	23.36	3,054.92	0.00	406,362.36	746,123.36	
12,400.00	90.00	179.56	9,450.00	6,074.20	-3,154.83	24.12	3,154.92	0.00	406,262.37	746,124.12	
12,500.00	90.00	179.56	9,450.00	6,074.20	-3,254.83	24.89	3,254.92	0.00	406,162.37	746,124.89	
12,600.00	90.00	179.56	9,450.00	6,074.20	-3,354.83	25.65	3,354.92	0.00	406,062.37	746,125.65	
12,700.00	90.00	179.56	9,450.00	6,074.20	-3,454.82	26.41	3,454.92	0.00	405,962.38	746,126.41	
12,800.00	90.00	179.56	9,450.00	6,074.20	-3,554.82	27.18	3,554.92	0.00	405,862.38	746,127.18	
12,900.00	90.00	179.56	9,450.00	6,074.20	-3,654.82	27.94	3,654.92	0.00	405,762.38	746,127.94	
13,000.00	90.00	179.56	9,450.00	6,074.20	-3,754.82	28.71	3,754.92	0.00	405,662.38	746,128.71	
13,100.00	90.00	179.56	9,450.00	6,074.20	-3,854.81	29.47	3,854.92	0.00	405,562.39	746,129.47	
13,200.00	90.00	179.56	9,450.00	6,074.20	-3,954.81	30.24	3,954.92	0.00	405,462.39	746,130.24	
13,300.00	90.00	179.56	9,450.00	6,074.20	-4,054.81	31.00	4,054.92	0.00	405,362.39	746,131.00	
13,400.00	90.00	179.56	9,450.00	6,074.20	-4,154.80	31.77	4,154.92	0.00	405,262.40	746,131.77	
13,500.00	90.00	179.56	9,450.00	6,074.20	-4,254.80	32.53	4,254.92	0.00	405,162.40	746,132.53	
13,600.00	90.00	179.56	9,450.00	6,074.20	-4,354.80	33.30	4,354.92	0.00	405,062.40	746,133.30	
13,700.00	90.00	179.56	9,450.00	6,074.20	-4,454.79	34.06	4,454.92	0.00	404,962.41	746,134.06	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #6H
Project:	Lea County	TVD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Site:	Caballo 23 Federal	MD Reference:	KB=30' @ 3375.80usft (Original Well Elev)
Well:	#6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan'1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
13,800.00	90.00	179.56	9,450.00	6,074.20	-4,554.79	34.82	4,554.92	0.00	404,862.41	746,134.82	
13,900.00	90.00	179.56	9,450.00	6,074.20	-4,654.79	35.59	4,654.92	0.00	404,762.41	746,135.59	
14,000.00	90.00	179.56	9,450.00	6,074.20	-4,754.79	36.35	4,754.92	0.00	404,662.41	746,136.35	
14,100.00	90.00	179.56	9,450.00	6,074.20	-4,854.78	37.12	4,854.92	0.00	404,562.42	746,137.12	
14,176.12	90.00	179.56	9,450.00	6,074.20	-4,930.90	37.70	4,931.04	0.00	404,486.30	746,137.70	

Checked By: _____ Approved By: _____ Date: _____



Project: Lea County
Site: Caballo 23 Federal
Well: #6H
Wellbore: OH
Plan: Plan 1 (#6H/OH)

PATHFINDER
A Schlumberger Company

PROJECT DETAILS: Lea County
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid

WELL DETAILS: #6H

Ground Elevation: 3345.80
RKB Elevation: KB=30' @ 3375.80usft (Original Well Elev)
Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	409417.200	746100.000	32° 7' 23.191 N	103° 32' 18.225 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSecl	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8972.54	0.00	0.00	8972.54	0.00	0.00	0.00	0.00	0.00	
9722.54	90.00	179.56	9450.00	-477.45	3.65	12.00	179.56	477.47	
14176.12	90.00	179.56	9450.00	-4930.90	37.70	0.00	0.00	4931.04	BHL (Caballo 6)

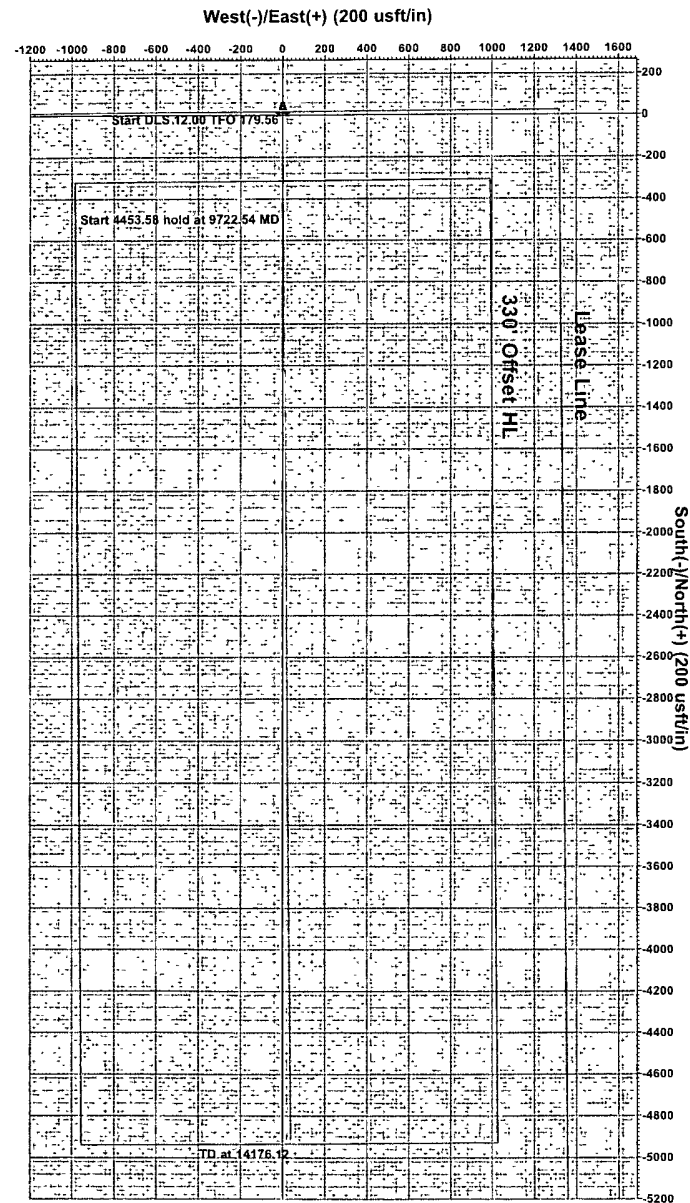
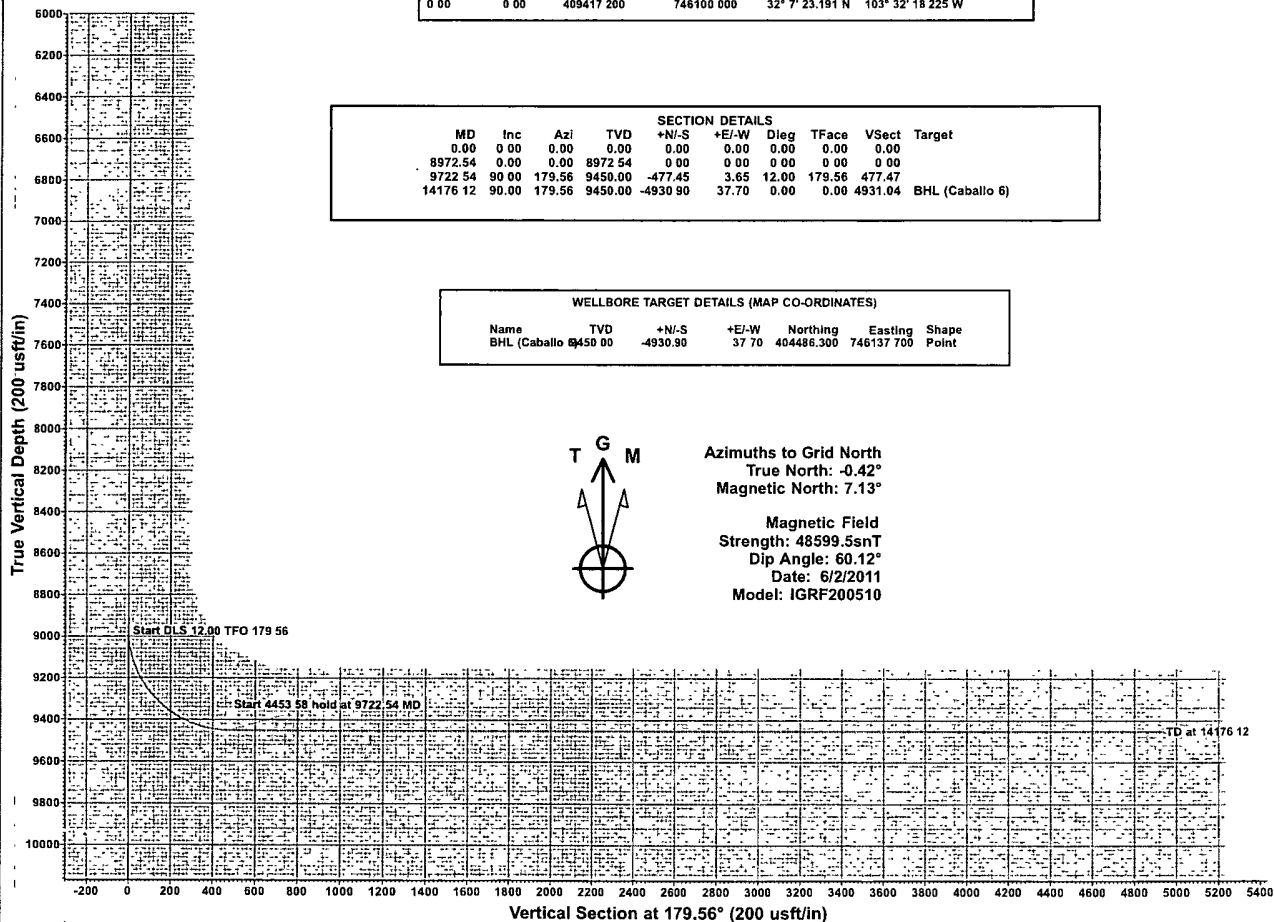
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (Caballo 6)	9450.00	-4930.90	37.70	404486.300	746137.700	Point



Azimuths to Grid North
True North: -0.42°
Magnetic North: 7.13°

Magnetic Field
Strength: 48599.5nT
Dip Angle: 60.12°
Date: 6/2/2011
Model: IGRF200510



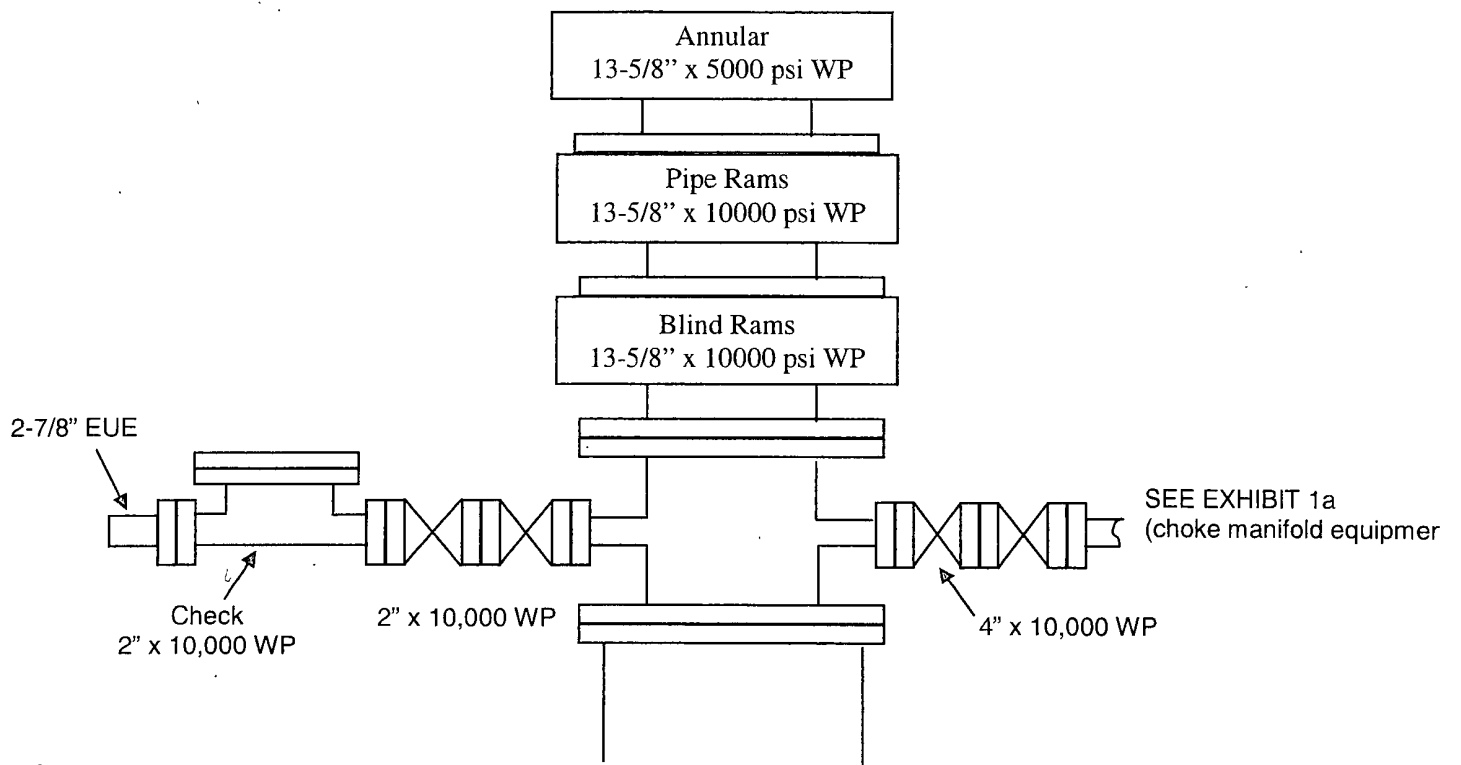
Plan: Plan 1 (#6H/OH)

Created By: Nate Bingham Date: 10/05/2011

Checked: _____ Date: _____

EXHIBIT 1

EOG Resources
Caballo 23 Federal No. 6H

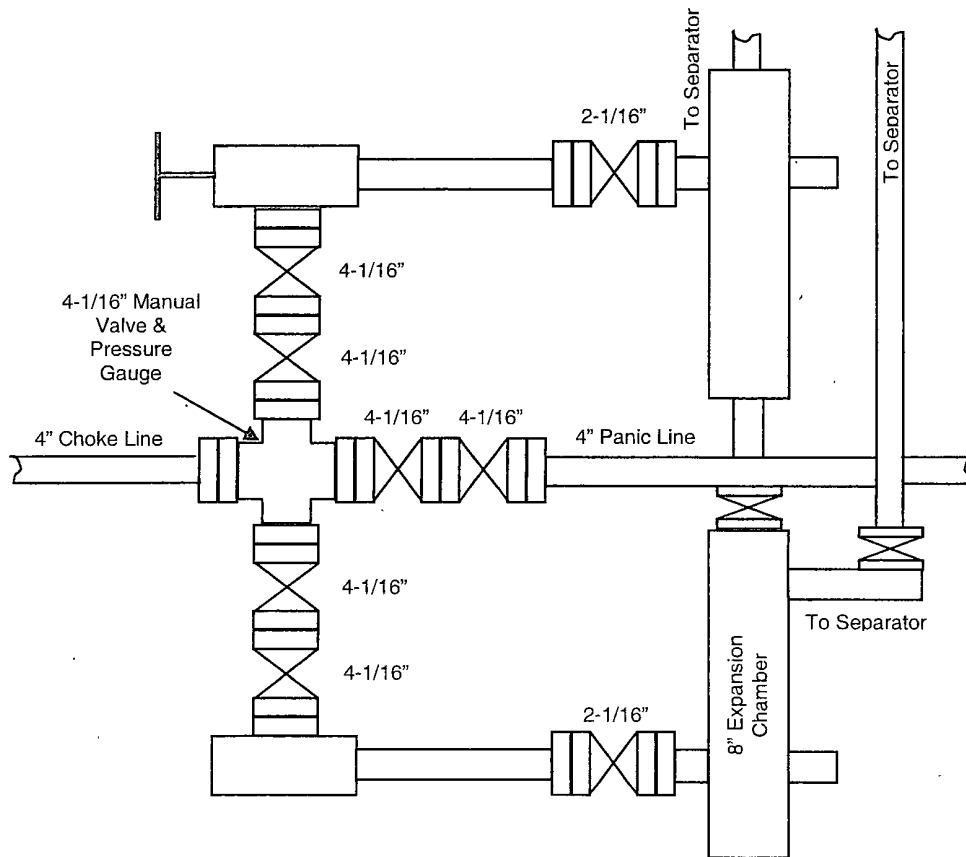


EOG RESOURCES, INC.
CABALLO 23 FED 6H

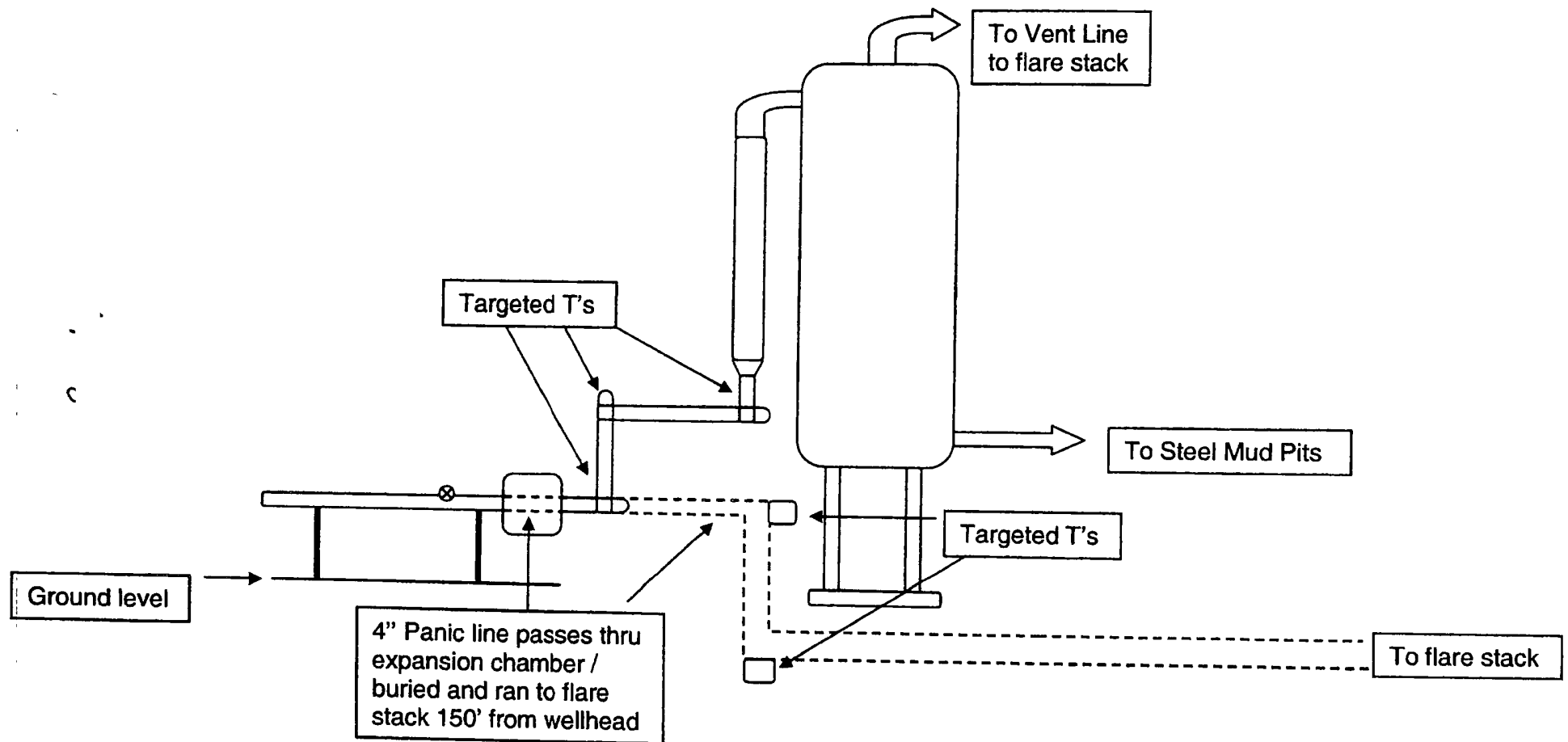
ATTACHMENT TO EXHIBIT #1

1. Wear ring to be properly installed in head.
2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.
3. All fittings to be flanged
4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
5. All choke and fill lines to be securely anchored especially ends of choke lines.
6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
7. Kelly cock on kelly.
8. Extension wrenches and hand wheels to be properly installed.
9. Blow out preventer control to be located as close to driller's position as feasible.
10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

EXHIBIT 1a
EOG Resources, Inc.
10M Choke Manifold Equipment



Profile View of Piping from Choke Manifold
to the Mud Gas Separator



Aerial View of the Piping from the Choke
Manifold to the Mud Gas Separator

