

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

ATS-11-587

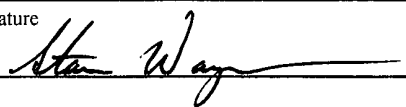
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NM0438001
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. <7377>		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 2267 Midland, Texas 79702	3b. Phone No. (include area code) 432-686-3689	8. Lease Name and Well No. Ross Draw 8 Fed 1H <8822>
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 330' FNL & 520' FWL, U/L D At proposed prod. zone 330' FSL & 990' FWL, U/L M		9. API Well No. 30-015-39248
14. Distance in miles and direction from nearest town or post office* Approximately 48 miles WNW from Jal NM.		10. Field and Pool, or Exploratory Undesignated; Bone Spring WILDCAT (90403)
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 330'	16. No. of Acres in lease 2201	11. Sec, T, R, M, or Blk. and Survey or Area Sec 8, T26S, R31E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1020' to R Gulch 1H	19. Proposed Depth 8300' V - 12783' M	12. County or Parish Eddy
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3280' GL ☒	22. Approximate date work will start* 7/1/2011	13. State NM
23. Estimated duration 30 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 3/22/2011
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Title

Regulatory Analyst

Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed) /s/ Don Peterson	Date JUN 23 2011
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Title

FIELD MANAGER

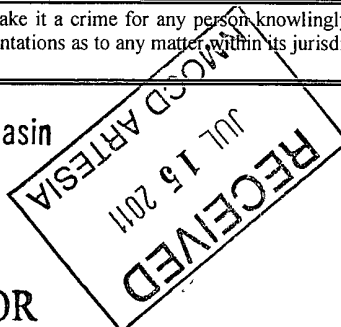
Office

CARLSBAD FIELD OFFICEApplication 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
Witness Surface &
Intermediate Casing**SEE ATTACHED FOR**
CONDITIONS OF APPROVAL**APPROVAL SUBJECT TO**
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

EOG RESOURCES, INC.
ROSS DRAW 8 FEDERAL NO. 1H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,365'
Top of Salt	1,750'
Base of Salt	3,780'
Lamar	3,990'
Bell Canyon	4,020'
Cherry Canyon	4,930'
Brushy Canyon	6,260'
Bone Spring Lime	7,950'
Bone Spring Sand 1	8,930'
Bone Spring 2 Carb	9,270'
TD	8,300'

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

Upper Permian Sands	0- 400'	Fresh Water
Brushy Canyon	6,260'	Oil
Bone Spring Lime	7,950'	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 13.375" casing at 950' 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
17.5"	0 - 950'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
8.75"	0'-12,783'	5.500"	20#	P110 or HCP110	NSCC	1.125	1.25	1.60

**EOG RESOURCES, INC.
ROSS DRAW 8 FEDERAL NO. 1H**

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
950' 1100'	400	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ surface)
	300	14.8	1.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
4,000'	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 (TOC @ surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
12,783'	150	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 (TOC @ 3500')
	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
	1300	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:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (5,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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.
ROSS DRAW 8 FEDERAL NO. 1H

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.

A hydraulically operated choke 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. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 950' 1100'	Fresh Water Gel	8.6-8.8	28-34	N/c
950' - 4,000'	Saturated Brine	10.0-10.2	28-34	N/c
4,000' - 7,822'	Fresh Water	8.4-8.6	28-34	N/c
7,822' - 12,783' Lateral	Cut Brine Water	9.0-9.5	28-34	N/c

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 logging is anticipated in the 8-3/4" hole section. The logging suites scheduled for this hole section are listed below:

NGT-CNL-LDT w/ Pe	From TD to previous casing shoe. At casing pull GR - Neutron to surface.
HR Laterolog Array	From TD to previous casing shoe.

EOG RESOURCES, INC.
ROSS DRAW 8 FEDERAL NO. 1H

FMI

Possible in the production hole

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

The estimated bottom-hole temperature (BHT) at TD is 150 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3600 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 month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

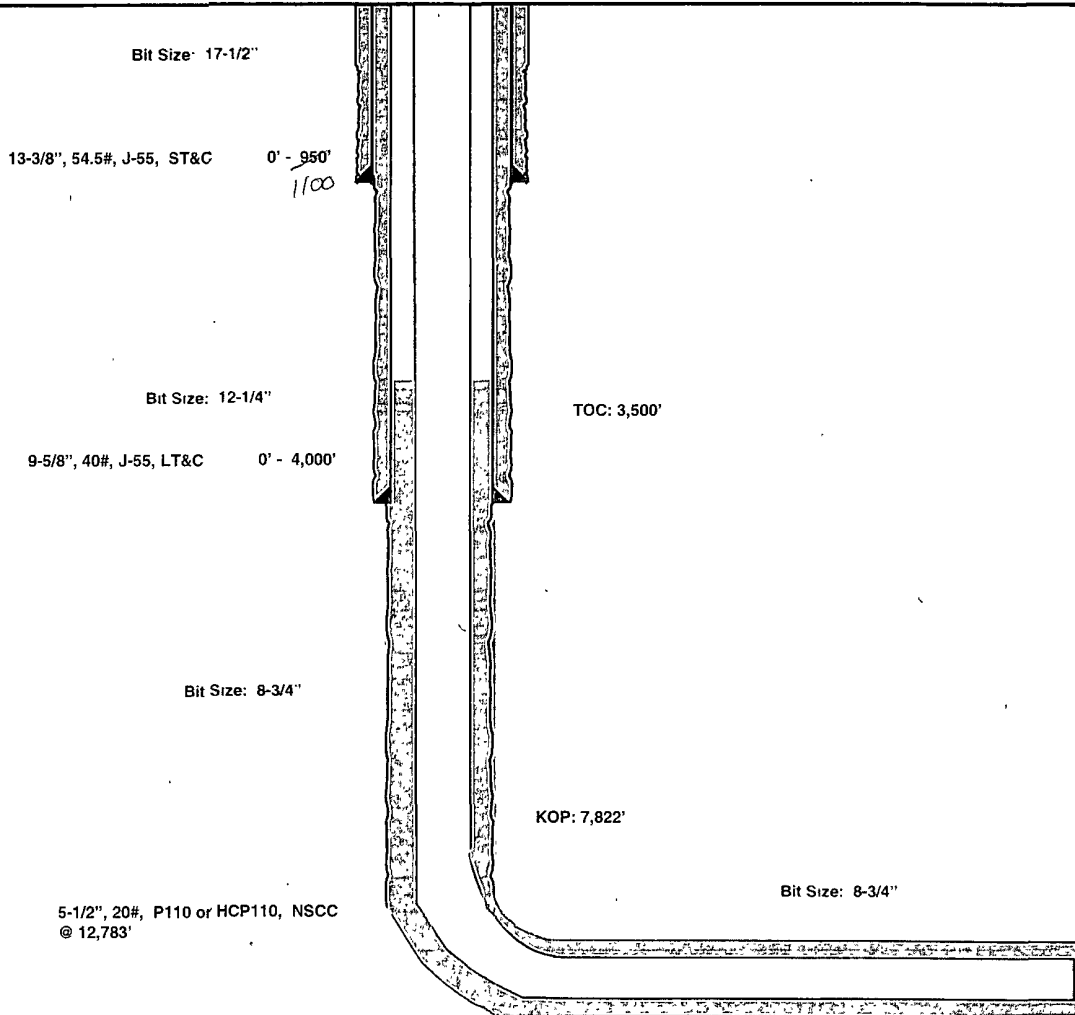
Ross Draw 8 Federal #1H
Eddy County, New Mexico

330' FNL
520' FWL
Section 8
T-26-S, R-31-E

Proposed Wellbore

API: 30-015-*****

KB: 3,299.5'
GL: 3,280.5'



Lateral:
12,783' MD, 8,300' TVD
BH Location: 330' FSL & 990' FWL
Section 8
T-26-S, R-31-E



EOG Resources, Inc.

Eddy County

Ross Draw "8" Fed

#1H

OH

Plan: Design #1

Pathfinder X & Y Planning Report

21 March, 2011

PATHFINDER
A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Site:	Ross Draw "8" Fed	MD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Project:	Eddy 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:	Ross Draw "8" Fed
Site Position:	
From:	Map
Position Uncertainty:	0.00 usft
Northing:	387,307.900 usft
Easting:	665,662.500 usft
Slot Radius:	13-3/16 "
Latitude:	32° 3' 49.307 N
Longitude:	103° 47' 54.825 W
Grid Convergence:	0.28 °

Well:	#1H
Well Position	
+N/-S	0.00 usft
+E/-W	0.00 usft
Position Uncertainty	0.00 usft
Northing:	387,290.500 usft
Easting:	663,109.600 usft
Wellhead Elevation:	usft
Latitude:	32° 3' 49.259 N
Longitude:	103° 48' 24.492 W
Ground Level:	3,280.50 usft

Wellbore:	OH
Magnetics	
Model Name	IGRF200510
Sample Date	03/11/11
Declination (°)	7.70
Dip Angle (°)	60.03
Field Strength (nT)	48,557

Design:	Design #1
Audit Notes:	
Version:	
Phase:	PLAN
Tie On Depth:	0.00
Vertical Section:	
Depth From (TVD) (usft)	0.00
+N/-S (usft)	0.00
+E/-W (usft)	0.00
Direction (°)	174.07

Survey Tool Program	Date 03/21/11
From (usft)	0.00
To (usft)	12,782.72
Survey (Wellbore)	Design #1 (OH)
Tool Name	MWD
Description	MWD - Standard



Pathfinder
Pathfinder X & Y Planning Report



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Site:	Ross Draw "8" Fed	MD Reference:	RKB-19' @ 3299 50usft (Original Well Elev)
Well:	#1H	North Reference:	Grd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	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	3,299.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
100.00	0.00	0.00	100.00	3,199.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
200.00	0.00	0.00	200.00	3,099.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
300.00	0.00	0.00	300.00	2,999.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
400.00	0.00	0.00	400.00	2,899.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
500.00	0.00	0.00	500.00	2,799.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
600.00	0.00	0.00	600.00	2,699.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
700.00	0.00	0.00	700.00	2,599.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
800.00	0.00	0.00	800.00	2,499.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
900.00	0.00	0.00	900.00	2,399.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,000.00	0.00	0.00	1,000.00	2,299.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,100.00	0.00	0.00	1,100.00	2,199.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,200.00	0.00	0.00	1,200.00	2,099.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,300.00	0.00	0.00	1,300.00	1,999.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,400.00	0.00	0.00	1,400.00	1,899.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,500.00	0.00	0.00	1,500.00	1,799.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,600.00	0.00	0.00	1,600.00	1,699.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,700.00	0.00	0.00	1,700.00	1,599.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,800.00	0.00	0.00	1,800.00	1,499.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
1,900.00	0.00	0.00	1,900.00	1,399.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,000.00	0.00	0.00	2,000.00	1,299.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,100.00	0.00	0.00	2,100.00	1,199.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,200.00	0.00	0.00	2,200.00	1,099.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,300.00	0.00	0.00	2,300.00	999.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,400.00	0.00	0.00	2,400.00	899.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,500.00	0.00	0.00	2,500.00	799.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,600.00	0.00	0.00	2,600.00	699.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	



Pathfinder
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Site:	Ross Draw "8" Fed	MD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	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	599.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,800.00	0.00	0.00	2,800.00	499.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
2,900.00	0.00	0.00	2,900.00	399.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,000.00	0.00	0.00	3,000.00	299.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,100.00	0.00	0.00	3,100.00	199.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,200.00	0.00	0.00	3,200.00	99.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,300.00	0.00	0.00	3,300.00	-0.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,400.00	0.00	0.00	3,400.00	-100.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,500.00	0.00	0.00	3,500.00	-200.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,600.00	0.00	0.00	3,600.00	-300.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,700.00	0.00	0.00	3,700.00	-400.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,800.00	0.00	0.00	3,800.00	-500.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
3,900.00	0.00	0.00	3,900.00	-600.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,000.00	0.00	0.00	4,000.00	-700.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,100.00	0.00	0.00	4,100.00	-800.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,200.00	0.00	0.00	4,200.00	-900.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,300.00	0.00	0.00	4,300.00	-1,000.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,400.00	0.00	0.00	4,400.00	-1,100.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,500.00	0.00	0.00	4,500.00	-1,200.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,600.00	0.00	0.00	4,600.00	-1,300.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,700.00	0.00	0.00	4,700.00	-1,400.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,800.00	0.00	0.00	4,800.00	-1,500.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
4,900.00	0.00	0.00	4,900.00	-1,600.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,000.00	0.00	0.00	5,000.00	-1,700.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,100.00	0.00	0.00	5,100.00	-1,800.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,200.00	0.00	0.00	5,200.00	-1,900.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,300.00	0.00	0.00	5,300.00	-2,000.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey:											
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5,400.00	0.00	0.00	5,400.00	-2,100.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,500.00	0.00	0.00	5,500.00	-2,200.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,600.00	0.00	0.00	5,600.00	-2,300.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,700.00	0.00	0.00	5,700.00	-2,400.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,800.00	0.00	0.00	5,800.00	-2,500.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
5,900.00	0.00	0.00	5,900.00	-2,600.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,000.00	0.00	0.00	6,000.00	-2,700.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,100.00	0.00	0.00	6,100.00	-2,800.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,200.00	0.00	0.00	6,200.00	-2,900.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,300.00	0.00	0.00	6,300.00	-3,000.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,400.00	0.00	0.00	6,400.00	-3,100.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,500.00	0.00	0.00	6,500.00	-3,200.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,600.00	0.00	0.00	6,600.00	-3,300.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,700.00	0.00	0.00	6,700.00	-3,400.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,800.00	0.00	0.00	6,800.00	-3,500.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
6,900.00	0.00	0.00	6,900.00	-3,600.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,000.00	0.00	0.00	7,000.00	-3,700.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,100.00	0.00	0.00	7,100.00	-3,800.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,200.00	0.00	0.00	7,200.00	-3,900.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,300.00	0.00	0.00	7,300.00	-4,000.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,400.00	0.00	0.00	7,400.00	-4,100.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,500.00	0.00	0.00	7,500.00	-4,200.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,600.00	0.00	0.00	7,600.00	-4,300.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,700.00	0.00	0.00	7,700.00	-4,400.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,800.00	0.00	0.00	7,800.00	-4,500.50	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
7,822.54	0.00	0.00	7,822.54	-4,523.04	0.00	0.00	0.00	0.00	387,290.50	663,109.60	
KOP-7822.54°MD,0.00°INC,0.00°AZI,7822.54°TVD											

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Site:	Ross Draw "8" Fed	MD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
7,825.00	0.30	174.07	7,825.00	-4,525.50	-0.01	0.00	0.01	12.00	387,290.49	663,109.60	
7,850.00	3.30	174.07	7,849.98	-4,550.48	-0.79	0.08	0.79	12.00	387,289.71	663,109.68	
7,875.00	6.30	174.07	7,874.89	-4,575.39	-2.86	0.30	2.88	12.00	387,287.64	663,109.90	
7,900.00	9.30	174.07	7,899.66	-4,600.16	-6.24	0.65	6.27	12.00	387,284.26	663,110.25	
7,925.00	12.30	174.07	7,924.22	-4,624.72	-10.89	1.13	10.95	12.00	387,279.61	663,110.73	
7,950.00	15.30	174.07	7,948.49	-4,648.99	-16.82	1.75	16.91	12.00	387,273.68	663,111.35	
7,975.00	18.30	174.07	7,972.42	-4,672.92	-24.01	2.49	24.13	12.00	387,266.49	663,112.09	
8,000.00	21.30	174.07	7,995.94	-4,696.44	-32.43	3.37	32.60	12.00	387,258.07	663,112.97	
8,025.00	24.30	174.07	8,018.99	-4,719.49	-42.06	4.37	42.29	12.00	387,248.44	663,113.97	
8,050.00	27.30	174.07	8,041.49	-4,741.99	-52.88	5.49	53.16	12.00	387,237.62	663,115.09	
8,075.00	30.30	174.07	8,063.40	-4,763.90	-64.85	6.74	65.20	12.00	387,225.65	663,116.34	
8,100.00	33.30	174.07	8,084.65	-4,785.15	-77.95	8.10	78.37	12.00	387,212.55	663,117.70	
8,125.00	36.30	174.07	8,105.17	-4,805.67	-92.14	9.57	92.64	12.00	387,198.36	663,119.17	
8,150.00	39.30	174.07	8,124.93	-4,825.43	-107.38	11.15	107.96	12.00	387,183.12	663,120.75	
8,175.00	42.30	174.07	8,143.85	-4,844.35	-123.62	12.84	124.29	12.00	387,166.88	663,122.44	
8,200.00	45.30	174.07	8,161.89	-4,862.39	-140.83	14.63	141.59	12.00	387,149.67	663,124.23	
8,225.00	48.30	174.07	8,179.01	-4,879.51	-158.96	16.51	159.81	12.00	387,131.54	663,126.11	
8,250.00	51.30	174.07	8,195.14	-4,895.64	-177.94	18.48	178.90	12.00	387,112.56	663,128.08	
8,275.00	54.30	174.07	8,210.26	-4,910.76	-197.75	20.54	198.81	12.00	387,092.75	663,130.14	
8,300.00	57.30	174.07	8,224.31	-4,924.81	-218.31	22.68	219.49	12.00	387,072.19	663,132.28	
8,325.00	60.30	174.07	8,237.26	-4,937.76	-239.58	24.88	240.87	12.00	387,050.92	663,134.48	
8,350.00	63.30	174.07	8,249.08	-4,949.58	-261.49	27.16	262.90	12.00	387,029.01	663,136.76	
8,375.00	66.30	174.07	8,259.72	-4,960.22	-283.98	29.50	285.51	12.00	387,006.52	663,139.10	
8,400.00	69.30	174.07	8,269.17	-4,969.67	-307.00	31.89	308.66	12.00	386,983.50	663,141.49	
8,425.00	72.30	174.07	8,277.39	-4,977.89	-330.48	34.33	332.26	12.00	386,960.02	663,143.93	
8,450.00	75.30	174.07	8,284.37	-4,984.87	-354.36	36.81	356.27	12.00	386,936.14	663,146.41	
8,475.00	78.30	174.07	8,290.08	-4,990.58	-378.57	39.32	380.60	12.00	386,911.93	663,148.92	

Company: EOG Resources, Inc.		Local Co-ordinate Reference:				Well #1H	
Project: Eddy County		TVD Reference:				RKB-19' @ 3299.50usft (Original Well Elev)	
Site: Ross Draw "8" Fed		MD Reference:				RKB-19' @ 3299.50usft (Original Well Elev)	
Well: #1H		North Reference:				Grid	
Wellbore: OH		Survey Calculation Method:				Minimum Curvature	
Design: Design #1		Database:				EDM 5000.1 Single User Db	

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,500.00	81.30	174.07	8,294.51	-4,995.01	-403.04	41.86	405.20	12.00	386,887.46	663,151.46	
8,525.00	84.30	174.07	8,297.64	-4,998.14	-427.70	44.43	430.00	12.00	386,862.80	663,154.03	
8,550.00	87.30	174.07	8,299.47	-4,999.97	-452.50	47.00	454.93	12.00	386,838.00	663,156.60	
8,572.54	90.00	174.07	8,300.00	-5,000.50	-474.91	49.33	477.46	12.00	386,815.59	663,158.93	
EOC-8572.54'MD,90.00°INC,174.07°AZI,8300.00'TVD											
8,600.00	90.00	174.07	8,300.00	-5,000.50	-502.22	52.17	504.92	0.00	386,788.28	663,161.77	
8,700.00	90.00	174.07	8,300.00	-5,000.50	-601.69	62.50	604.92	0.00	386,688.81	663,172.10	
8,800.00	90.00	174.07	8,300.00	-5,000.50	-701.15	72.83	704.92	0.00	386,589.35	663,182.43	
8,900.00	90.00	174.07	8,300.00	-5,000.50	-800.62	83.16	804.92	0.00	386,489.88	663,192.76	
9,000.00	90.00	174.07	8,300.00	-5,000.50	-900.08	93.49	904.92	0.00	386,390.42	663,203.09	
9,100.00	90.00	174.07	8,300.00	-5,000.50	-999.55	103.82	1,004.92	0.00	386,290.95	663,213.42	
9,200.00	90.00	174.07	8,300.00	-5,000.50	-1,099.01	114.15	1,104.92	0.00	386,191.49	663,223.75	
9,300.00	90.00	174.07	8,300.00	-5,000.50	-1,198.48	124.48	1,204.92	0.00	386,092.02	663,234.08	
9,400.00	90.00	174.07	8,300.00	-5,000.50	-1,297.94	134.82	1,304.92	0.00	385,992.56	663,244.42	
9,500.00	90.00	174.07	8,300.00	-5,000.50	-1,397.41	145.15	1,404.92	0.00	385,893.09	663,254.75	
9,600.00	90.00	174.07	8,300.00	-5,000.50	-1,496.87	155.48	1,504.92	0.00	385,793.63	663,265.08	
9,700.00	90.00	174.07	8,300.00	-5,000.50	-1,596.34	165.81	1,604.92	0.00	385,694.16	663,275.41	
9,800.00	90.00	174.07	8,300.00	-5,000.50	-1,695.80	176.14	1,704.92	0.00	385,594.70	663,285.74	
9,900.00	90.00	174.07	8,300.00	-5,000.50	-1,795.27	186.47	1,804.92	0.00	385,495.23	663,296.07	
10,000.00	90.00	174.07	8,300.00	-5,000.50	-1,894.73	196.80	1,904.92	0.00	385,395.77	663,306.40	
10,100.00	90.00	174.07	8,300.00	-5,000.50	-1,994.20	207.14	2,004.92	0.00	385,296.30	663,316.74	
10,200.00	90.00	174.07	8,300.00	-5,000.50	-2,093.66	217.47	2,104.92	0.00	385,196.84	663,327.07	
10,300.00	90.00	174.07	8,300.00	-5,000.50	-2,193.13	227.80	2,204.92	0.00	385,097.37	663,337.40	
10,400.00	90.00	174.07	8,300.00	-5,000.50	-2,292.59	238.13	2,304.92	0.00	384,997.91	663,347.73	
10,500.00	90.00	174.07	8,300.00	-5,000.50	-2,392.06	248.46	2,404.92	0.00	384,898.44	663,358.06	
10,600.00	90.00	174.07	8,300.00	-5,000.50	-2,491.52	258.79	2,504.92	0.00	384,798.98	663,368.39	
10,700.00	90.00	174.07	8,300.00	-5,000.50	-2,590.99	269.12	2,604.92	0.00	384,699.51	663,378.72	

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Site:	Ross Draw "8" Fed	MD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
10,800.00	90.00	174.07	8,300.00	-5,000.50	-2,690.45	279.45	2,704.92	0.00	384,600.05	663,389.05	
10,900.00	90.00	174.07	8,300.00	-5,000.50	-2,789.92	289.79	2,804.92	0.00	384,500.58	663,399.39	
11,000.00	90.00	174.07	8,300.00	-5,000.50	-2,889.38	300.12	2,904.92	0.00	384,401.12	663,409.72	
11,100.00	90.00	174.07	8,300.00	-5,000.50	-2,988.85	310.45	3,004.92	0.00	384,301.65	663,420.05	
11,200.00	90.00	174.07	8,300.00	-5,000.50	-3,088.31	320.78	3,104.92	0.00	384,202.19	663,430.38	
11,300.00	90.00	174.07	8,300.00	-5,000.50	-3,187.77	331.11	3,204.92	0.00	384,102.73	663,440.71	
11,400.00	90.00	174.07	8,300.00	-5,000.50	-3,287.24	341.44	3,304.92	0.00	384,003.26	663,451.04	
11,500.00	90.00	174.07	8,300.00	-5,000.50	-3,386.70	351.77	3,404.92	0.00	383,903.80	663,461.37	
11,600.00	90.00	174.07	8,300.00	-5,000.50	-3,486.17	362.11	3,504.92	0.00	383,804.33	663,471.71	
11,700.00	90.00	174.07	8,300.00	-5,000.50	-3,585.63	372.44	3,604.92	0.00	383,704.87	663,482.04	
11,800.00	90.00	174.07	8,300.00	-5,000.50	-3,685.10	382.77	3,704.92	0.00	383,605.40	663,492.37	
11,900.00	90.00	174.07	8,300.00	-5,000.50	-3,784.56	393.10	3,804.92	0.00	383,505.94	663,502.70	
12,000.00	90.00	174.07	8,300.00	-5,000.50	-3,884.03	403.43	3,904.92	0.00	383,406.47	663,513.03	
12,100.00	90.00	174.07	8,300.00	-5,000.50	-3,983.49	413.76	4,004.92	0.00	383,307.01	663,523.36	
12,200.00	90.00	174.07	8,300.00	-5,000.50	-4,082.96	424.09	4,104.92	0.00	383,207.54	663,533.69	
12,300.00	90.00	174.07	8,300.00	-5,000.50	-4,182.42	434.42	4,204.92	0.00	383,108.08	663,544.02	
12,400.00	90.00	174.07	8,300.00	-5,000.50	-4,281.89	444.76	4,304.92	0.00	383,008.61	663,554.36	
12,500.00	90.00	174.07	8,300.00	-5,000.50	-4,381.35	455.09	4,404.92	0.00	382,909.15	663,564.69	
12,600.00	90.00	174.07	8,300.00	-5,000.50	-4,480.82	465.42	4,504.92	0.00	382,809.68	663,575.02	
12,700.00	90.00	174.07	8,300.00	-5,000.50	-4,580.28	475.75	4,604.92	0.00	382,710.22	663,585.35	
12,782.95	90.00	174.07	8,300.00	-5,000.50	-4,662.79	484.32	4,687.87	0.00	382,627.71	663,593.92	
TD at 12782.95											

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Site:	Ross Draw "8" Fed	MD Reference:	RKB-19' @ 3299.50usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,822.54	7,822.54	0.00	0.00	KOP-7822.54°MD,0.00°INC,0.00°AZI,7822.54°TVD
8,572.54	8,300.00	-474.91	49.33	EOC-8572.54°MD,90.00°INC,174.07°AZI,8300.00°TVD
12,782.95	8,300.00	-4,662.79	484.32	TD at 12782.95

Checked By: _____	Approved By: _____	Date: _____
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Project: Eddy County
Site: Ross Draw "8" F
Well: #1H
Wellbore: OH
Plan: Design #1 (#1H/OH)

PROJECT DETAILS: Eddy 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



Azimuths to Grid North
True North: -0.28°
Magnetic North: 7.42°
Magnetic Field
Strength: 48556.7snT
Dip Angle: 60.03°
Date: 03/11/2011
Model: IGRF200510

PATHFINDER
A Schlumberger Company

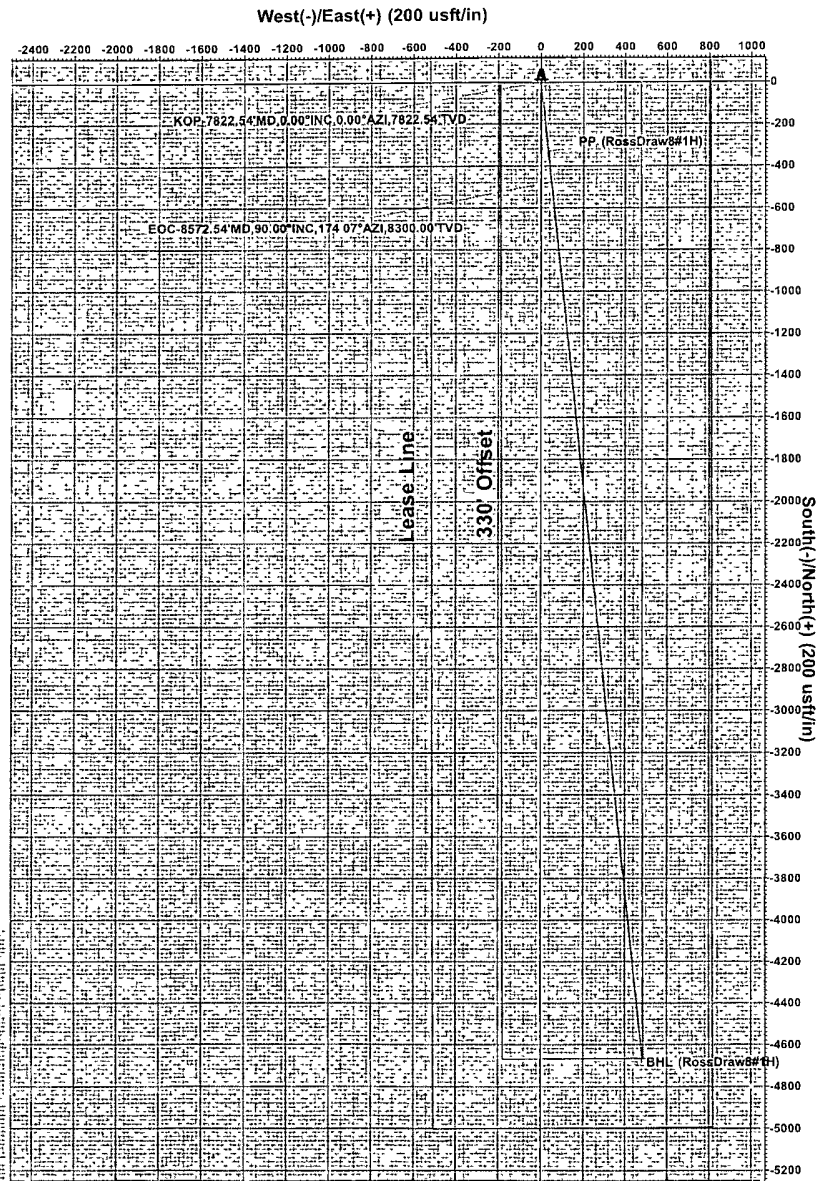
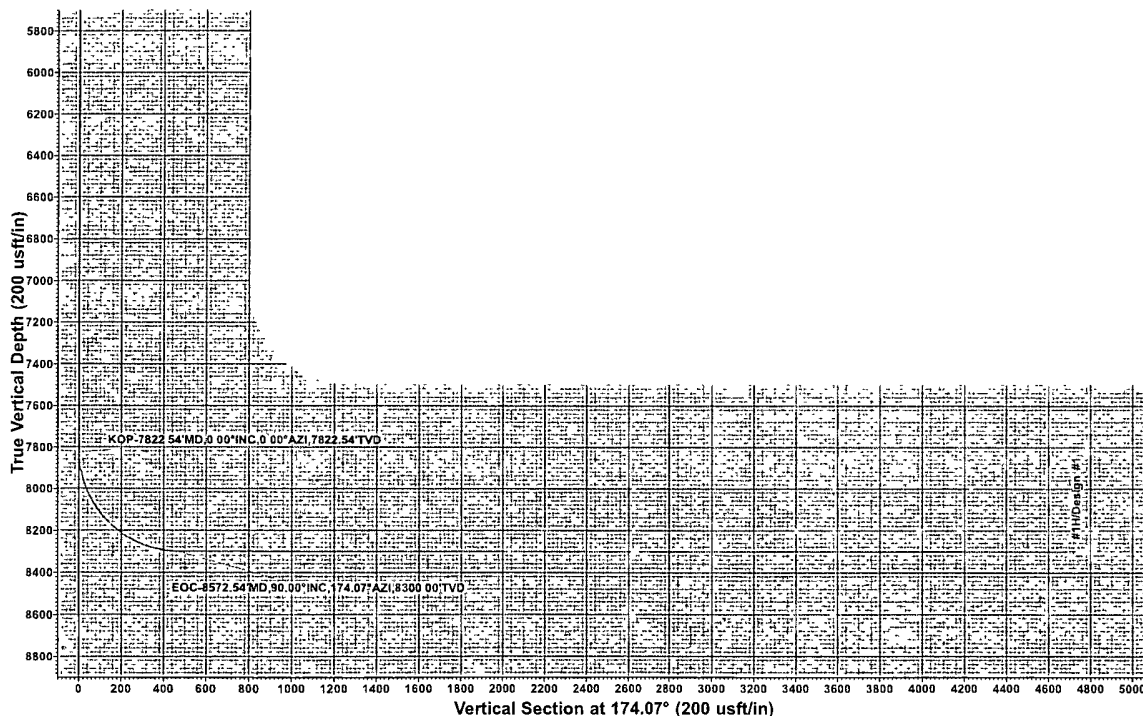
WELL DETAILS #1H						
Ground Elevation: 3280.50						
RKB Elevation: RKB-19' @ 3299.50usft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	387290.500	663109.600	32° 3' 49.259 N	103° 48' 24.492 W	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7822.54	0.00	0.00	7822.54	0.00	0.00	0.00	0.00	0.00	
8572.54	90.00	174.07	8300.00	-474.91	49.33	12.00	174.07	477.46	
12782.95	90.00	174.07	8300.00	-4662.79	484.32	0.00	0.00	4687.87	BHL (RossDraw8#1H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (RossDraw8#1H)	8300.00	-4662.60	483.90	382627.900	663593.500	Point
PP (RossDraw8#1H)	8300.00	-328.20	34.00	386962.300	663143.600	Point

LEGEND

• Design #1



Plan Design #1 (#1H/OH)
Created By: Nate Bingham Date: 15.16, March 21 2011
Checked: _____ Date: _____

EOG RESOURCES, INC.
ROSS DRAW 8 FED 1H

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 1

EOG Resources
5000 PSI BOPE

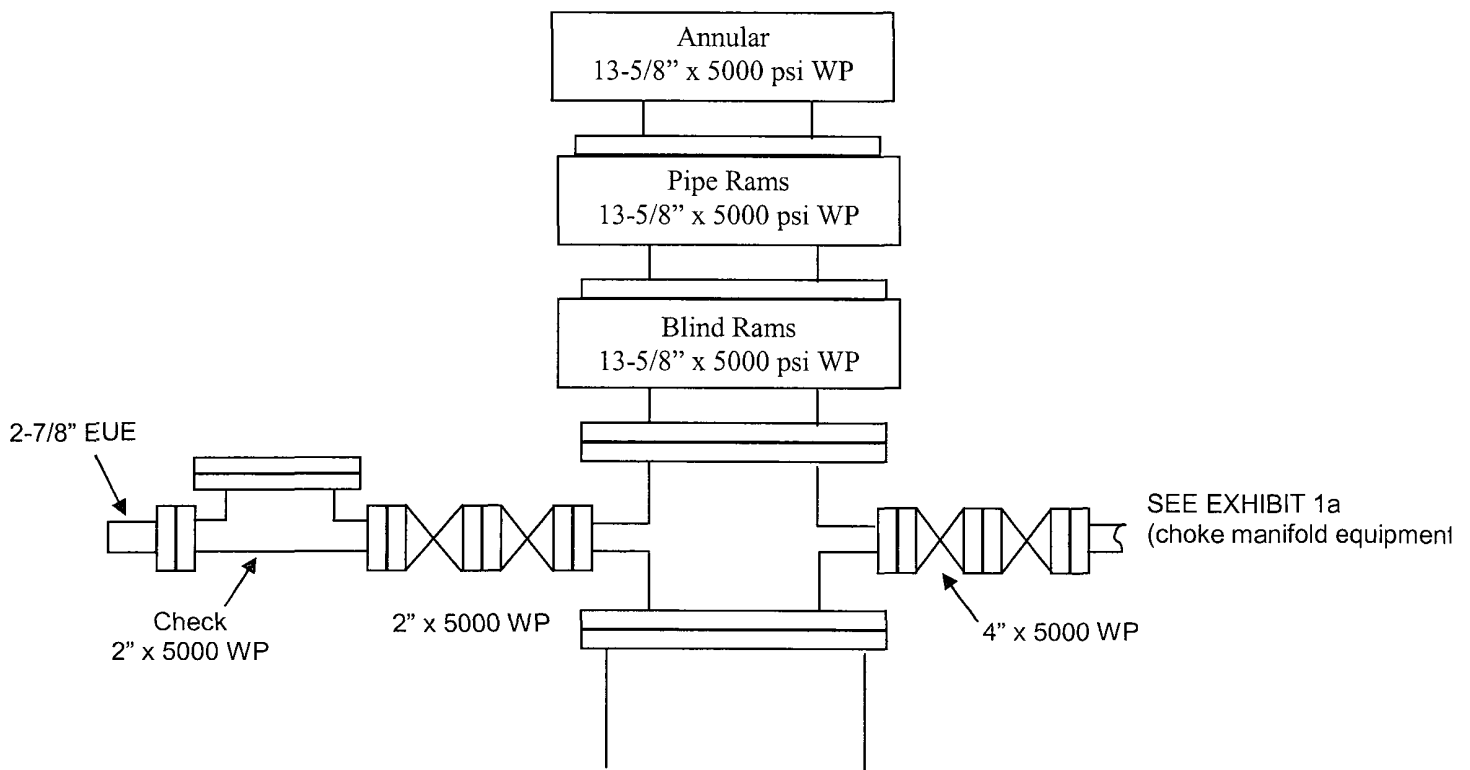
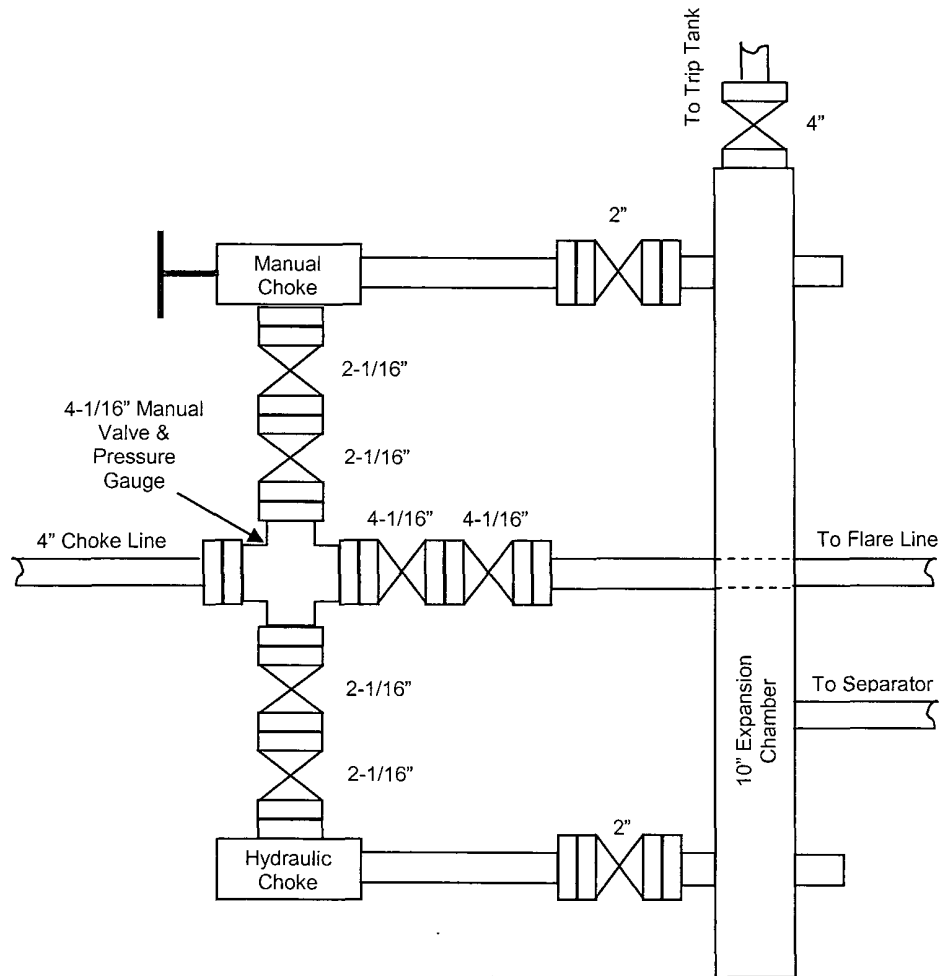
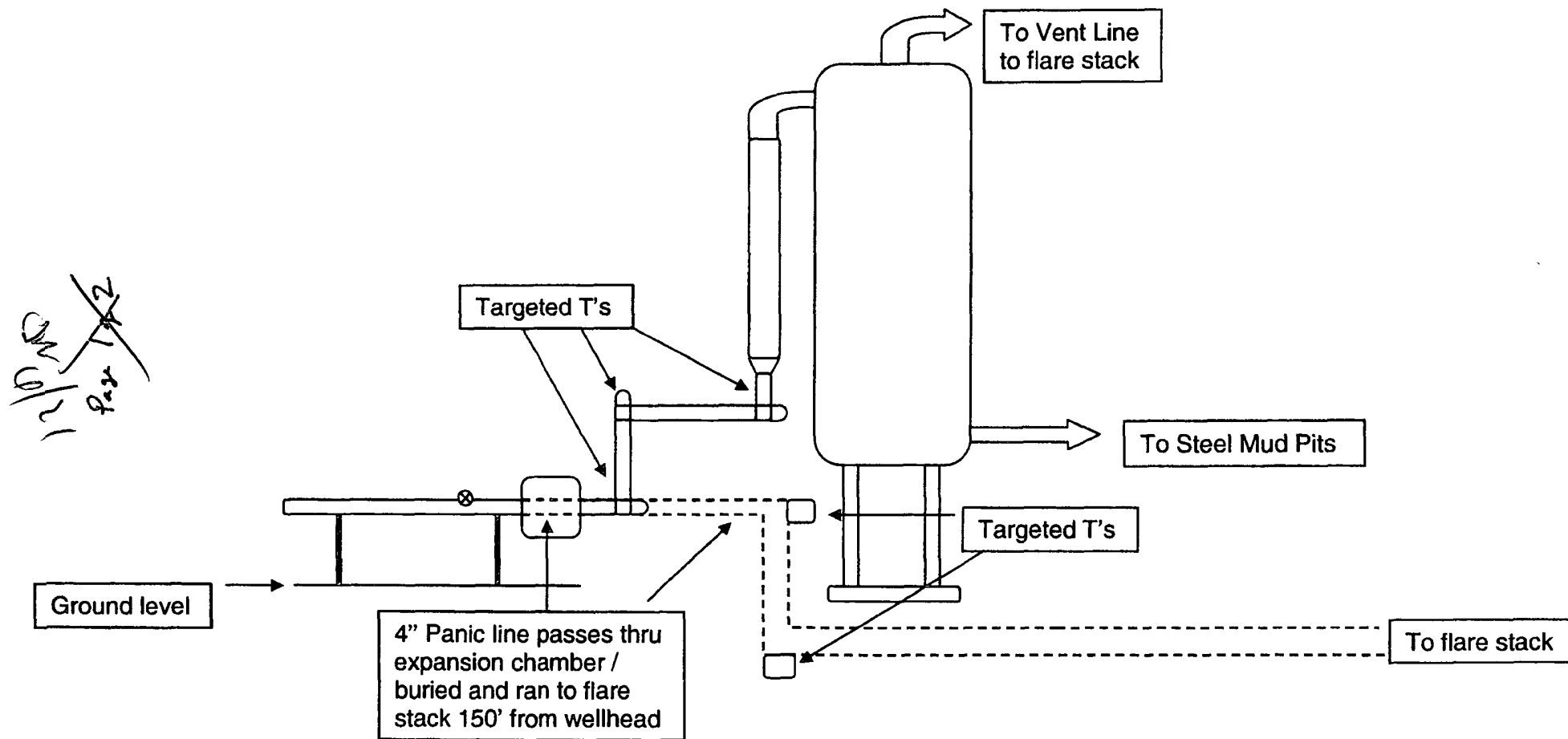


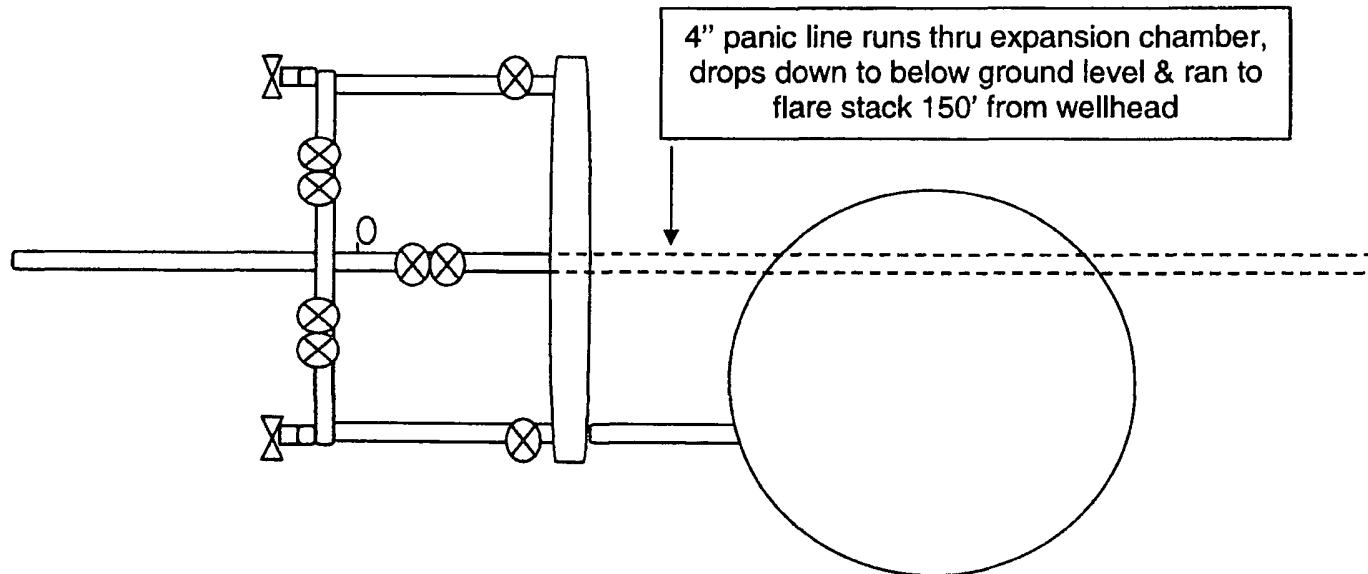
EXHIBIT 1a
EOG Resources, Inc.
5M Choke Manifold Equipment



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



~~12/19/2022~~
~~RFK~~

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator EOG RESOURCES INC OGRID # 7377
~~40777~~ Well Name & # ROSS DRAW 8 FED # 1H Surface Type (F) (S) (P)
38727 Location: UL D, Sect 8, Township 26 s, RNG 31 e, #1H Sub-surface Type (F) (S) (P)

A. Date C101 rec'd / / C101 reviewed / /

B. 1. Check mark, Information is OK on Forms:

OGRID X BONDING FED PROP CODE X, WELL # X SIGNATURE

2. Inactive Well list as of: 7/22/11 # wells 432, # Inactive wells 3

a. District Grant APD but see number of inactive wells:

No letter required X; Sent Letter to Operator , to Santa Fe

3. Additional Bonding as of: 7/22/11

a. District Denial because operator needs addition bonding:

No Letter required X; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required X; Sent Letter to Operator , To Santa Fe

C. C102 YES , NO , Signature

1. Pool WILDCAT BONE SPRING, Code 96403

a. Dedicated acreage 160, What Units DELM

b. SUR. Location Standard X; Non-Standard Location

c. Well shares acres: Yes , No , # of wells plus this well #

2. 2nd. Operator in same acreage, Yes , No

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes X, No

a. Dedicated acreage 160, What Units DELM

b. Bottomhole Location Standard X, Non-Standard Bottomhole

4. Downhole Commingle: Yes , No X

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No FED

D. Blowout Preventer Yes X, No

E. H2S Yes X, No

F. C144 Pit Registration Yes , No , need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No X, NSL #

2. Non-Standard Proration: Yes , No X, NSP #

3. Simultaneous Dedication: Yes , No X, SD #

Number of wells Plus #

4. Injection order Yes , No X; PMX # or WFX #

5. SWD order Yes , NO X; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date / /

API #30-0 15-- 39248

8. Reviewers