

HOBBS
AUG 29 2011UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

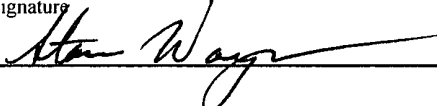
AT5-11-629
FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010APPLICATION FOR PERMIT TO DRILL OR REENTER
RECEIVED

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. SH NM93 (SHE); NM104050 (SHE)	
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. <38780> Cholla 18 Fed Com 1H	
3b. Phone No. (include area code) 432-686-3689		9. API Well No. 30-025-40257	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1660' FSL & 330' FEL, U/L I At proposed prod zone 1980' FSL & 330' FWL, U/L		10. Field and Pool, or Exploratory Corbin; Bone Spring, South	
14. Distance in miles and direction from nearest town or post office* Approximately +/- 12 miles South from Maljamar, NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec 18, T18S, R33E	
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 648.60	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 459' from WCorbin 10	19. Proposed Depth Pilot Hole 9000' 8520 TVD - 13017 MD	20. BLM/BIA Bond No. on file NM 2308	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3859' GL	22. Approximate date work will start* 8/1/11	23. Estimated duration 25 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 4/15/11
Title Regulatory Analyst		
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed) /s/ Don Peterson	Date AUG 26 2011
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

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.

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.

APPROVAL FOR TWO YEARS

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

KZ 09/01/2011

Witness Surface &
Intermediate CasingSEE ATTACHED FOR
CONDITIONS OF APPROVALAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-402
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELLSITE LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 40257	Pool Code 13160	Pool Name Corbin; Bone Spring, South
Property Code 38380	Property Name CHOLLA "18" FED. COM	Well Number 1H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3859.7'

Surface Location

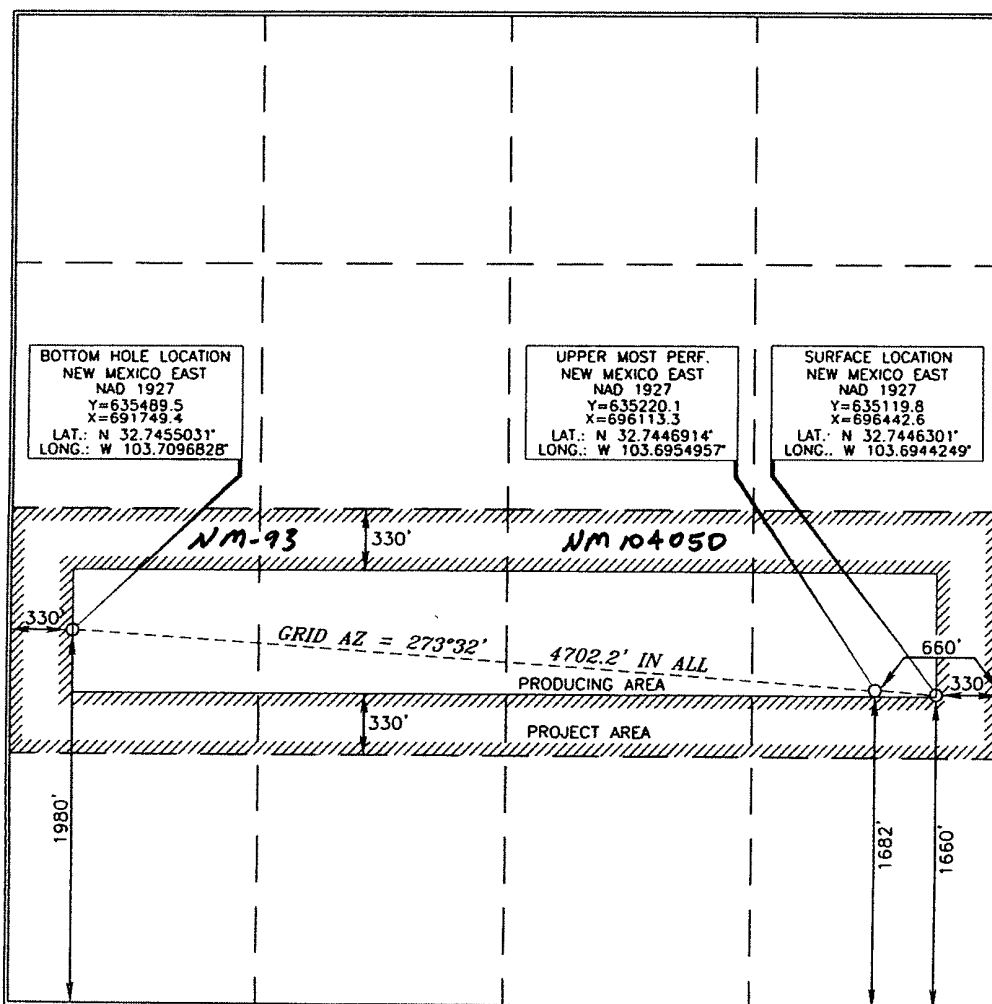
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	18	18 SOUTH	33 EAST, N.M.P.M.		1660'	SOUTH	330'	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	18	18 SOUTH	33 EAST, N.M.P.M.		1980'	SOUTH	330'	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Don D. Mott 3/31/11
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes and actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079
MARCH 21, 2011
Date of Survey
Signature and Seal of Professional Surveyor
Terry Glanton 3/31/2011
Certificate Number 15079

WO# 110321WL (KA)

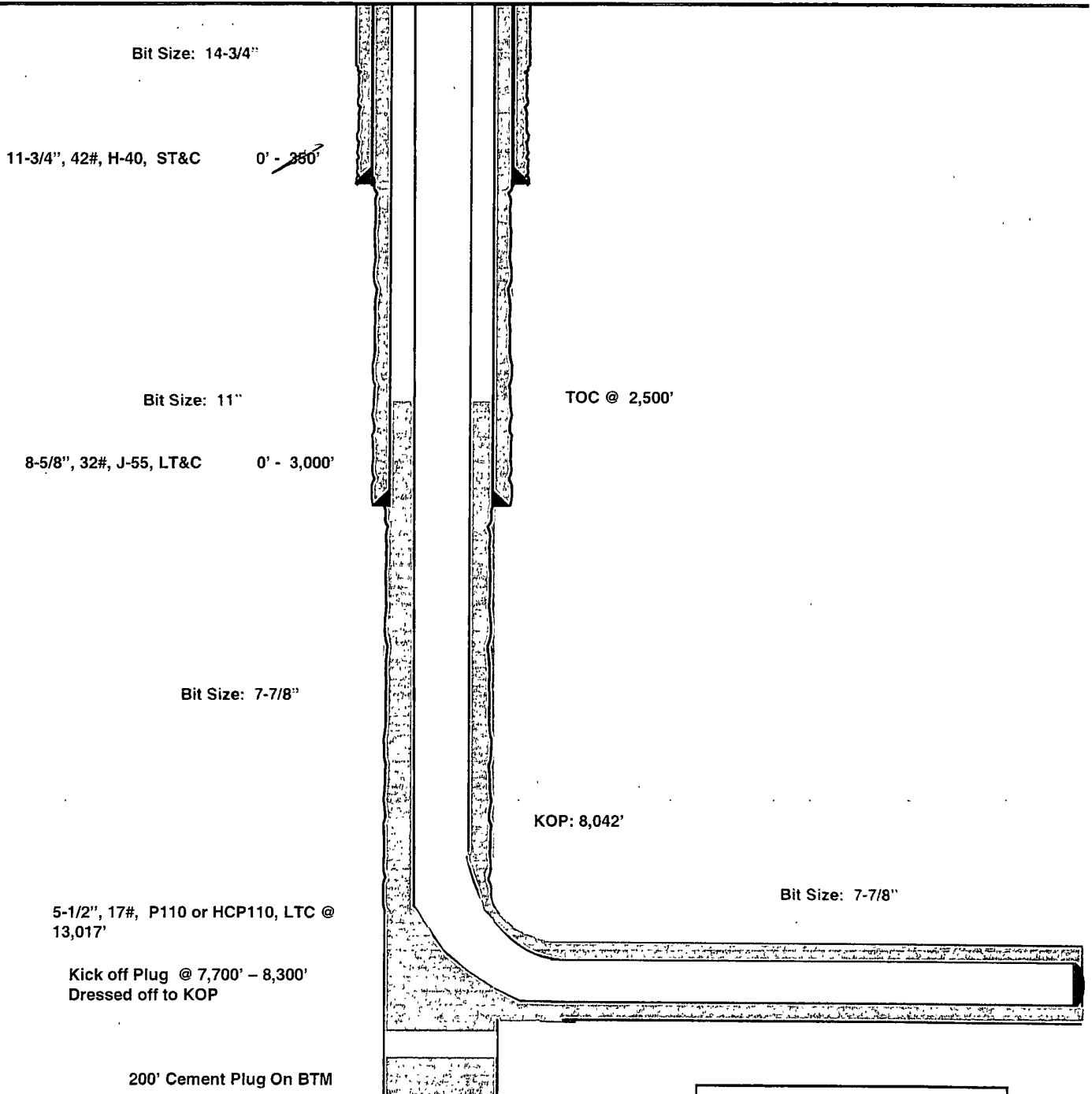
Cholla 18 Fed Com #1H
Lea County, New Mexico

1660' FSL
330' FEL
Section 18
T-18-S, R-33-E

Proposed Wellbore

API: 30-025-*****

KB: 3,889.7'
GL: 3,859.7'



Pilot Hole
TD: 9,000'

Lateral:
13,017' MD, 8,520' TVD
BH Location: 1980' FSL & 330' FWL
Section 18
T-18-S, R-33-E



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 09866	PRO	LE		2	2	17	18S	33E		623767	3624667*	1793	238	85	153
L 03454	DOM	LE		2	2	30	18S	33E		622200	3621422*	2079	100	35	65
L 03454 APPRO	DOM	LE		2	2	30	18S	33E		622200	3621422*	2079	100	35	65
L 06131	STK	LE		3	1	2	08	18S	33E	623241	3626167*	2801	194	100	94
CP 00758 EXPL	EXP	LE		3	04		18S	33E		624345	3626886*	3906	250		
CP 00677	PRO	LE		1	1	26	18S	32E		617750	3621373*	5121	700		
CP 00701	PRO	LE		1	3	11	18S	33E		627373	3625534*	5364	100		
CP 00701 POD2	PRO	LE		4	1	3	11	18S	33E	627472	3625433*	5418	100		
CP 00623	COM	LE		1	1	1	13	18S	33E	628895	3624852*	6623	82	60	22
CP 00689	PRO	LE		2	1	13	18S	33E		629243	3624542	6910	100		
L 05055	PRO	LE		3	3	4	35	17S	33E	628042	3628259*	7376	233	150	83
L 05096	PRO	LE		3	3	4	35	17S	33E	628042	3628259*	7376	233	150	83
L 03713	PRO	LE		3	4	1	28	17S	33E	624391	3630617*	7395	210		
L 03713 APPRO	PRO	LE		3	4	1	28	17S	33E	624391	3630617*	7395	210		
L 04363	PRO	LE		1	2	3	35	17S	33E	627634	3628855*	7485	226	160	66
L 04363 APPRO	PRO	LE		1	2	3	35	17S	33E	627634	3628855*	7485	226	160	66
CP 00691	PRO	LE		4	4	2	24	18S	33E	630327	3622662*	7957	215	195	20
L 02878	PRO	LE		4	4	12	18S	33E		630196	3625175*	7963	205	150	55
L 06347	STK	LE		4	4	12	18S	33E		630196	3625175*	7963	170	130	40
L 07429	PRO	LE		1	1	1	19	18S	34E	630523	3623272*	8112	149	105	44
L 02898	PRO	LE		3	3	07	18S	34E		630598	3625182*	8357	204	15	189
L 02898 APPRO	PRO	LE		3	3	07	18S	34E		630598	3625182*	8357	204	150	54
CP 00566	DOM	LE		4	4	1	04	18S	32E	614960	3627280*	8360	133	65	68
L 03436	PRO	LE		1	4	18	18S	34E		631386	3623987*	8986	170	125	45
L 03436 APPRO	PRO	LE		1	4	18	18S	34E		631386	3623987*	8986	170	125	45
L 04898	PRO	LE		4	3	06	18S	34E		630937	3626796*	9142	185	150	35
L 02875	PRO	LE		2	2	20	17S	33E		623662	3632717*	9310	250	190	60
L 02875 APPRO	PRO	LE		2	2	20	17S	33E		623662	3632717*	9310	250	190	60
L 04226	EXP	LE		4	4	4	18	18S	34E	631894	3623489*	9481	166		
L 04734	PRO	LE		3	3	31	17S	34E		630555	3628397*	9505	186	135	51
L 04734 APPRO	PRO	LE		3	3	31	17S	34E		630555	3628397*	9505	186	135	51
L 03133	SAN	LE		3	1	3	23	17S	33E	627188	3631868*	9642	230		
L 03133 APPRO 2	SAN	ED		3	1	3	23	17S	33E	627188	3631868*	9642	230	70	160
Average Depth to Water.													119 feet		

Minimum Depth: 15 feet

Maximum Depth 195 feet

Record Count: 33

UTMNA83 Radius Search (in meters):

Easting (X): 622413

Northing (Y): 3623491

Radius: 9656

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/22/11 2:21 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

EOG RESOURCES, INC.
CHOLLA 18 FED COM NO. 1H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,430'
Top of Salt	1,600'
Base of Salt	2,750'
Yates	2,920'
Queen	4,120'
San Andres	4,740'
Delaware	5,060'
Brushy Canyon	5,620'
Bone Spring 1 Carb	6,840'
Bone Spring Sand 1	8,490'
Bone Spring 2 Carb	8,750'
TD	9,000'

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

Upper Permian Sands	0- 300'	Fresh Water
Brushy Canyon	5,620'	Oil
Bone Spring Sand 1	8,490'	Oil
Bone Spring 2 Carb	8,750'	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 350' 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 - 350' / 485'	11.75"	42#	H40	STC	1.125	1.25	1.60
11"	0-3000' ✓	8.625"	32#	J55	LTC	1.125	1.25	1.60
7.875"	0'-13,017'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

**EOG RESOURCES, INC.
CHOLLA 18 FED COM NO. 1H**

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
350'	250	14.8	1.35	Lead: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L (TOC @ surface)
3,000'	400	12.7	2.21	Lead: Class C + 2% SMS + 1.0% R-3 + 0.25 pps CelloFlake + 0.005 pps Static Free (TOC @ surface)
	200	14.8	1.32	Tail: Class C + 0.25 pps Celloflake + 0.005 pps Static Free + 0.005 gps FL-6L
BH Plug 9000'-8800'	100	18.0	0.90	Class H + 0.005 lbs/sx Static Free + 5% Salt + 1.2% CD31 + 0.005 gps FP-6L
KO Plug 600'	300	18.0	0.90	Class H + 0.005 lbs/sx Static Free + 5% Salt + 1.2% CD31 + 0.005 gps FP-6L
13,017'	600	11.8	2.31	Lead: 50:50:10 Class C + 1.25% FL-52A + 0.30% ASA-301 + 0.15% ASA-301 + 0.15% SMS + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ 2500')
	900	14.2	1.30	Tail: 50:50:2 Class 'H' + Class H + 0.65% FL-52A + 0.20% CD-32 + 0.20% SMS + 5% Salt + 0.15% R-3 + 0.005 pps 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.

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.

EOG RESOURCES, INC.
CHOLLA 18 FED COM NO. 1H

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 - 350' <i>1485</i>	Fresh Water Gel	8.6-8.8	28-34	N/c
350' - 3,000'	Saturated Brine	10.0-10.2	28-34	N/c
3,000' - 9,000'	Fresh Water	8.4-8.6 <i>OK</i>	28-34	N/c
8,042' - 13,017' Lateral	Cut Brine	8.5-9.0	<i>28-34</i> <i>4 1/2</i>	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 10A*

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.
FMI	Possible in the production hole

EOG RESOURCES, INC.
CHOLLA 18 FED COM NO. 1H

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

The estimated bottom-hole temperature (BHT) at TD is 152 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3690 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.



A Schlumberger Company

EOG Resources, Inc.

Lea County

Cholla 18 Fed Com HOBBS OCD

#1H

OH

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Plan: Design #1

Pathfinder X & Y Planning Report

12 April, 2011



A Schlumberger Company



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Well:	#1H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

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

Site	Cholla 18 Fed Com		
Site Position:		Northing:	635,119.800 usft
From:	Map	Easting:	696,442.600 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 44' 39.877 N
		Longitude:	103° 41' 39.936 W
		Grid Convergence:	0.35 °

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 44' 39.877 N
		Longitude:	103° 41' 39.936 W
		Ground Level:	3,859.70 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	04/07/11	(°)	(°)	(nT)
			7.69	60.67	48,967

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	274.50

Survey Tool Program	Date 04/12/11			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	13,022.79	Design #1 (OH)	MWD	MWD - Standard



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
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)	
0.00	0.00	0.00	0.00	3,889.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
100.00	0.00	0.00	100.00	3,789.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
200.00	0.00	0.00	200.00	3,689.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
300.00	0.00	0.00	300.00	3,589.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
400.00	0.00	0.00	400.00	3,489.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
500.00	0.00	0.00	500.00	3,389.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
600.00	0.00	0.00	600.00	3,289.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
700.00	0.00	0.00	700.00	3,189.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
800.00	0.00	0.00	800.00	3,089.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
900.00	0.00	0.00	900.00	2,989.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,000.00	0.00	0.00	1,000.00	2,889.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,100.00	0.00	0.00	1,100.00	2,789.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,200.00	0.00	0.00	1,200.00	2,689.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,300.00	0.00	0.00	1,300.00	2,589.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,400.00	0.00	0.00	1,400.00	2,489.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,500.00	0.00	0.00	1,500.00	2,389.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,600.00	0.00	0.00	1,600.00	2,289.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,700.00	0.00	0.00	1,700.00	2,189.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,800.00	0.00	0.00	1,800.00	2,089.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
1,900.00	0.00	0.00	1,900.00	1,989.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,000.00	0.00	0.00	2,000.00	1,889.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,100.00	0.00	0.00	2,100.00	1,789.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,200.00	0.00	0.00	2,200.00	1,689.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,300.00	0.00	0.00	2,300.00	1,589.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,400.00	0.00	0.00	2,400.00	1,489.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,500.00	0.00	0.00	2,500.00	1,389.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,600.00	0.00	0.00	2,600.00	1,289.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	



A Schlumberger Company

Pathfinder Pathfinder X & Y Planning Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
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	1,189.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,800.00	0.00	0.00	2,800.00	1,089.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
2,900.00	0.00	0.00	2,900.00	989.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,000.00	0.00	0.00	3,000.00	889.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,100.00	0.00	0.00	3,100.00	789.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,200.00	0.00	0.00	3,200.00	689.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,300.00	0.00	0.00	3,300.00	589.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,400.00	0.00	0.00	3,400.00	489.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,500.00	0.00	0.00	3,500.00	389.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,600.00	0.00	0.00	3,600.00	289.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,700.00	0.00	0.00	3,700.00	189.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,800.00	0.00	0.00	3,800.00	89.70	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
3,900.00	0.00	0.00	3,900.00	-10.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,000.00	0.00	0.00	4,000.00	-110.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,100.00	0.00	0.00	4,100.00	-210.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,200.00	0.00	0.00	4,200.00	-310.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,300.00	0.00	0.00	4,300.00	-410.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,400.00	0.00	0.00	4,400.00	-510.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,500.00	0.00	0.00	4,500.00	-610.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,600.00	0.00	0.00	4,600.00	-710.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,700.00	0.00	0.00	4,700.00	-810.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,800.00	0.00	0.00	4,800.00	-910.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
4,900.00	0.00	0.00	4,900.00	-1,010.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
5,000.00	0.00	0.00	5,000.00	-1,110.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
5,100.00	0.00	0.00	5,100.00	-1,210.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
5,200.00	0.00	0.00	5,200.00	-1,310.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
5,300.00	0.00	0.00	5,300.00	-1,410.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60	



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
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)		
5,400.00	0.00	0.00	5,400.00	-1,510.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
5,500.00	0.00	0.00	5,500.00	-1,610.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
5,600.00	0.00	0.00	5,600.00	-1,710.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
5,700.00	0.00	0.00	5,700.00	-1,810.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
5,800.00	0.00	0.00	5,800.00	-1,910.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
5,900.00	0.00	0.00	5,900.00	-2,010.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,000.00	0.00	0.00	6,000.00	-2,110.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,100.00	0.00	0.00	6,100.00	-2,210.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,200.00	0.00	0.00	6,200.00	-2,310.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,300.00	0.00	0.00	6,300.00	-2,410.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,400.00	0.00	0.00	6,400.00	-2,510.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,500.00	0.00	0.00	6,500.00	-2,610.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,600.00	0.00	0.00	6,600.00	-2,710.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,700.00	0.00	0.00	6,700.00	-2,810.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,800.00	0.00	0.00	6,800.00	-2,910.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
6,900.00	0.00	0.00	6,900.00	-3,010.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,000.00	0.00	0.00	7,000.00	-3,110.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,100.00	0.00	0.00	7,100.00	-3,210.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,200.00	0.00	0.00	7,200.00	-3,310.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,300.00	0.00	0.00	7,300.00	-3,410.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,400.00	0.00	0.00	7,400.00	-3,510.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,500.00	0.00	0.00	7,500.00	-3,610.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,600.00	0.00	0.00	7,600.00	-3,710.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,700.00	0.00	0.00	7,700.00	-3,810.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,800.00	0.00	0.00	7,800.00	-3,910.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
7,900.00	0.00	0.00	7,900.00	-4,010.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		
8,000.00	0.00	0.00	8,000.00	-4,110.30	0.00	0.00	0.00	0.00	635,119.80	696,442.60		



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
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)	
8,042.50	0.00	0.00	8,042.50	-4,152.80	0.00	0.00	0.00	0.00	635,119.80	696,442.60	
KOP-8042.50°MD,0.00°INC,0.00°AZI,8042.50°TVD											
8,050.00	0.90	274.50	8,050.00	-4,160.30	0.00	-0.06	0.06	12.00	635,119.80	696,442.54	
8,075.00	3.90	274.50	8,074.97	-4,185.27	0.09	-1.10	1.11	12.00	635,119.89	696,441.50	
8,100.00	6.90	274.50	8,099.86	-4,210.16	0.27	-3.45	3.46	12.00	635,120.07	696,439.15	
8,125.00	9.90	274.50	8,124.59	-4,234.89	0.56	-7.09	7.11	12.00	635,120.36	696,435.51	
8,150.00	12.90	274.50	8,149.09	-4,259.39	0.95	-12.01	12.05	12.00	635,120.75	696,430.59	
8,175.00	15.90	274.50	8,173.31	-4,283.61	1.43	-18.21	18.27	12.00	635,121.23	696,424.39	
8,200.00	18.90	274.50	8,197.16	-4,307.46	2.02	-25.66	25.74	12.00	635,121.82	696,416.94	
8,225.00	21.90	274.50	8,220.59	-4,330.89	2.70	-34.35	34.45	12.00	635,122.50	696,408.25	
8,250.00	24.90	274.50	8,243.53	-4,353.83	3.48	-44.24	44.38	12.00	635,123.28	696,398.36	
8,275.00	27.90	274.50	8,265.92	-4,376.22	4.35	-55.32	55.49	12.00	635,124.15	696,387.28	
8,300.00	30.90	274.50	8,287.70	-4,398.00	5.32	-67.56	67.76	12.00	635,125.12	696,375.04	
8,325.00	33.90	274.50	8,308.81	-4,419.11	6.37	-80.91	81.16	12.00	635,126.17	696,361.69	
8,350.00	36.90	274.50	8,329.18	-4,439.48	7.50	-95.34	95.64	12.00	635,127.30	696,347.26	
8,375.00	39.90	274.50	8,348.77	-4,459.07	8.72	-110.82	111.16	12.00	635,128.52	696,331.78	
8,400.00	42.90	274.50	8,367.52	-4,477.82	10.02	-127.30	127.69	12.00	635,129.82	696,315.30	
8,425.00	45.90	274.50	8,385.39	-4,495.69	11.39	-144.73	145.18	12.00	635,131.19	696,297.87	
8,450.00	48.90	274.50	8,402.31	-4,512.61	12.83	-163.08	163.58	12.00	635,132.63	696,279.52	
8,475.00	51.90	274.50	8,418.24	-4,528.54	14.35	-182.28	182.84	12.00	635,134.15	696,260.32	
8,500.00	54.90	274.50	8,433.15	-4,543.45	15.92	-202.28	202.91	12.00	635,135.72	696,240.32	
8,525.00	57.90	274.50	8,446.98	-4,557.28	17.55	-223.04	223.73	12.00	635,137.35	696,219.56	
8,550.00	60.90	274.50	8,459.71	-4,570.01	19.24	-244.49	245.24	12.00	635,139.04	696,198.11	
8,575.00	63.90	274.50	8,471.29	-4,581.59	20.98	-266.57	267.39	12.00	635,140.78	696,176.03	
8,600.00	66.90	274.50	8,481.70	-4,592.00	22.76	-289.23	290.12	12.00	635,142.56	696,153.37	
8,625.00	69.89	274.50	8,490.90	-4,601.20	24.59	-312.40	313.36	12.00	635,144.39	696,130.20	
8,650.00	72.89	274.50	8,498.88	-4,609.18	26.44	-336.01	337.05	12.00	635,146.24	696,106.59	



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



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Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
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)
8,675.00	75.89	274.50	8,505.60	-4,615.90	28.33	-360.02	361.13	12.00	635,148.13	696,082.58
8,700.00	78.89	274.50	8,511.06	-4,621.36	30.25	-384.33	385.52	12.00	635,150.05	696,058.27
8,725.00	81.89	274.50	8,515.23	-4,625.53	32.18	-408.91	410.17	12.00	635,151.98	696,033.69
8,750.00	84.89	274.50	8,518.10	-4,628.40	34.13	-433.66	435.00	12.00	635,153.93	696,008.94
8,775.00	87.89	274.50	8,519.68	-4,629.98	36.09	-458.53	459.95	12.00	635,155.89	695,984.07
8,792.56	90.00	274.50	8,520.00	-4,630.30	37.46	-476.03	477.50	12.00	635,157.26	695,966.57
EOC-8792.56°MD,90.00°INC,274.50°AZI,8520.00°TVD										
8,800.00	90.00	274.50	8,520.00	-4,630.30	38.05	-483.45	484.94	0.00	635,157.85	695,959.15
8,900.00	90.00	274.50	8,520.00	-4,630.30	45.89	-583.14	584.94	0.00	635,165.69	695,859.46
9,000.00	90.00	274.50	8,520.00	-4,630.30	53.74	-682.83	684.94	0.00	635,173.54	695,759.77
9,100.00	90.00	274.50	8,520.00	-4,630.30	61.59	-782.53	784.94	0.00	635,181.39	695,660.07
9,200.00	90.00	274.50	8,520.00	-4,630.30	69.43	-882.22	884.94	0.00	635,189.23	695,560.38
9,300.00	90.00	274.50	8,520.00	-4,630.30	77.28	-981.91	984.94	0.00	635,197.08	695,460.69
9,400.00	90.00	274.50	8,520.00	-4,630.30	85.12	-1,081.60	1,084.94	0.00	635,204.92	695,361.00
9,500.00	90.00	274.50	8,520.00	-4,630.30	92.97	-1,181.29	1,184.94	0.00	635,212.77	695,261.31
9,600.00	90.00	274.50	8,520.00	-4,630.30	100.82	-1,280.98	1,284.94	0.00	635,220.62	695,161.62
9,700.00	90.00	274.50	8,520.00	-4,630.30	108.66	-1,380.68	1,384.94	0.00	635,228.46	695,061.92
9,800.00	90.00	274.50	8,520.00	-4,630.30	116.51	-1,480.37	1,484.94	0.00	635,236.31	694,962.23
9,900.00	90.00	274.50	8,520.00	-4,630.30	124.35	-1,580.06	1,584.94	0.00	635,244.15	694,862.54
10,000.00	90.00	274.50	8,520.00	-4,630.30	132.20	-1,679.75	1,684.94	0.00	635,252.00	694,762.85
10,100.00	90.00	274.50	8,520.00	-4,630.30	140.05	-1,779.44	1,784.94	0.00	635,259.85	694,663.16
10,200.00	90.00	274.50	8,520.00	-4,630.30	147.89	-1,879.13	1,884.94	0.00	635,267.69	694,563.47
10,300.00	90.00	274.50	8,520.00	-4,630.30	155.74	-1,978.83	1,984.94	0.00	635,275.54	694,463.77
10,400.00	90.00	274.50	8,520.00	-4,630.30	163.58	-2,078.52	2,084.94	0.00	635,283.38	694,364.08
10,500.00	90.00	274.50	8,520.00	-4,630.30	171.43	-2,178.21	2,184.94	0.00	635,291.23	694,264.39
10,600.00	90.00	274.50	8,520.00	-4,630.30	179.27	-2,277.90	2,284.94	0.00	635,299.07	694,164.70
10,700.00	90.00	274.50	8,520.00	-4,630.30	187.12	-2,377.59	2,384.94	0.00	635,306.92	694,065.01



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Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
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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	274.50	8,520.00	-4,630.30	194.97	-2,477.28	2,484.94	0.00	635,314.77	693,965.32	
10,900.00	90.00	274.50	8,520.00	-4,630.30	202.81	-2,576.98	2,584.94	0.00	635,322.61	693,865.62	
11,000.00	90.00	274.50	8,520.00	-4,630.30	210.66	-2,676.67	2,684.94	0.00	635,330.46	693,765.93	
11,100.00	90.00	274.50	8,520.00	-4,630.30	218.50	-2,776.36	2,784.94	0.00	635,338.30	693,666.24	
11,200.00	90.00	274.50	8,520.00	-4,630.30	226.35	-2,876.05	2,884.94	0.00	635,346.15	693,566.55	
11,300.00	90.00	274.50	8,520.00	-4,630.30	234.20	-2,975.74	2,984.94	0.00	635,354.00	693,466.86	
11,400.00	90.00	274.50	8,520.00	-4,630.30	242.04	-3,075.43	3,084.94	0.00	635,361.84	693,367.17	
11,500.00	90.00	274.50	8,520.00	-4,630.30	249.89	-3,175.13	3,184.94	0.00	635,369.69	693,267.47	
11,600.00	90.00	274.50	8,520.00	-4,630.30	257.73	-3,274.82	3,284.94	0.00	635,377.53	693,167.78	
11,700.00	90.00	274.50	8,520.00	-4,630.30	265.58	-3,374.51	3,384.94	0.00	635,385.38	693,068.09	
11,800.00	90.00	274.50	8,520.00	-4,630.30	273.43	-3,474.20	3,484.94	0.00	635,393.23	692,968.40	
11,900.00	90.00	274.50	8,520.00	-4,630.30	281.27	-3,573.89	3,584.94	0.00	635,401.07	692,868.71	
12,000.00	90.00	274.50	8,520.00	-4,630.30	289.12	-3,673.59	3,684.94	0.00	635,408.92	692,769.01	
12,100.00	90.00	274.50	8,520.00	-4,630.30	296.96	-3,773.28	3,784.94	0.00	635,416.76	692,669.32	
12,200.00	90.00	274.50	8,520.00	-4,630.30	304.81	-3,872.97	3,884.94	0.00	635,424.61	692,569.63	
12,300.00	90.00	274.50	8,520.00	-4,630.30	312.66	-3,972.66	3,984.94	0.00	635,432.46	692,469.94	
12,400.00	90.00	274.50	8,520.00	-4,630.30	320.50	-4,072.35	4,084.94	0.00	635,440.30	692,370.25	
12,500.00	90.00	274.50	8,520.00	-4,630.30	328.35	-4,172.04	4,184.94	0.00	635,448.15	692,270.56	
12,600.00	90.00	274.50	8,520.00	-4,630.30	336.19	-4,271.74	4,284.94	0.00	635,455.99	692,170.86	
12,700.00	90.00	274.50	8,520.00	-4,630.30	344.04	-4,371.43	4,384.94	0.00	635,463.84	692,071.17	
12,800.00	90.00	274.50	8,520.00	-4,630.30	351.88	-4,471.12	4,484.94	0.00	635,471.68	691,971.48	
12,900.00	90.00	274.50	8,520.00	-4,630.30	359.73	-4,570.81	4,584.94	0.00	635,479.53	691,871.79	
13,000.00	90.00	274.50	8,520.00	-4,630.30	367.58	-4,670.50	4,684.94	0.00	635,487.38	691,772.10	
13,022.79	90.00	274.50	8,520.00	-4,630.30	369.36	-4,693.23	4,707.74	0.00	635,489.16	691,749.37	
TD at 13022.79 - BHL (Cholla18#1H)											

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
Site:	Cholla 18 Fed Com	MD Reference:	RKB-30' @ 3889.70usft (Cactus #123)
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			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,042.50	8,042.50	0.00	0.00	KOP-8042.50°MD,0.00°INC,0.00°AZI,8042.50°TVD	
8,792.56	8,520.00	37.46	-476.03	EOC-8792.56°MD,90.00°INC,274.50°AZI,8520.00°TVD	
13,022.79	8,520.00	369.36	-4,693.23	TD at 13022.79	

Checked By: _____	Approved By: _____	Date: _____
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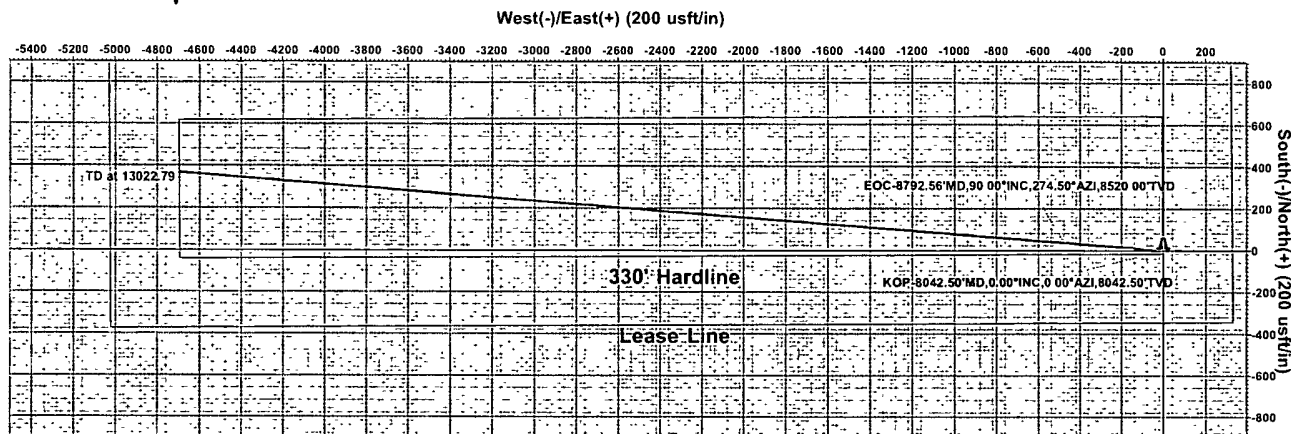


Azimuths to Grid North
True North: -0.35°
Magnetic North: 7.35°

Magnetic Field
Strength: 48967.0snT
Dip Angle: 60.67°
Date: 04/07/2011
Model: IGRF200510

PATHFINDER
A Schlumberger Company

Project: Lea County
Site: Cholla 18 Fed Com
Well: #1H
Wellbore: OH
Plan: Design #1 (#1H/OH)



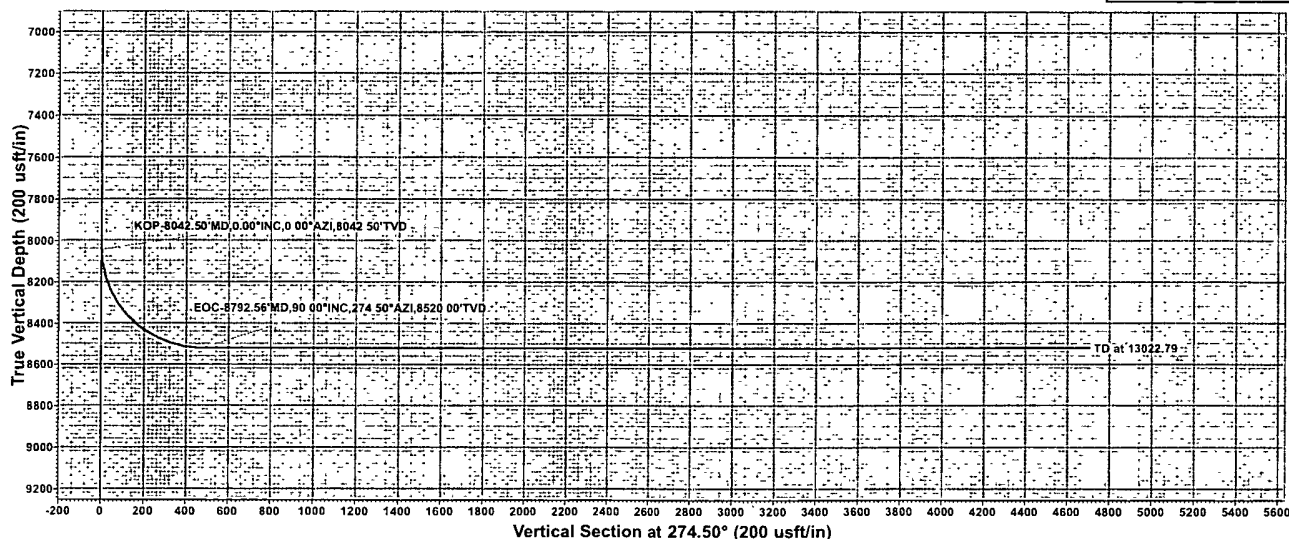
SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	28042.50	0.00	0.00	8042.50	0.00	0.00	0.00	0.00	0.00
	38792.56	90.00	274.50	8520.00	37.46	-476.03	12.00	274.50	477.50
	43022.79	90.00	274.50	8520.00	369.36	-4693.23	0.00	0.00	4707.74
									BHL (Cholla18#1H)

WELL DETAILS: #1H
Ground Elevation: 3859.70
RKB Elevation: RKB-30' @ 3889.70usft (Cactus #123)
Rig Name: Cactus #123

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	635119.800	698442.600	32° 44' 39.877 N	103° 41' 39.936 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (Cholla18#1H)	8520.00	369.70	-4693.20	635489.500	691749.400	Point



LEGEND

◆ Design #1

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

Plan Design #1 (#1H/OH)

Created By: Nate Bingham Date: 15.36, April 12 2011

Checked: _____ Date: _____

**EOG RESOURCES, INC.
CHOLLA 18 FED COM 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
Cholla18 Fed Com #1H

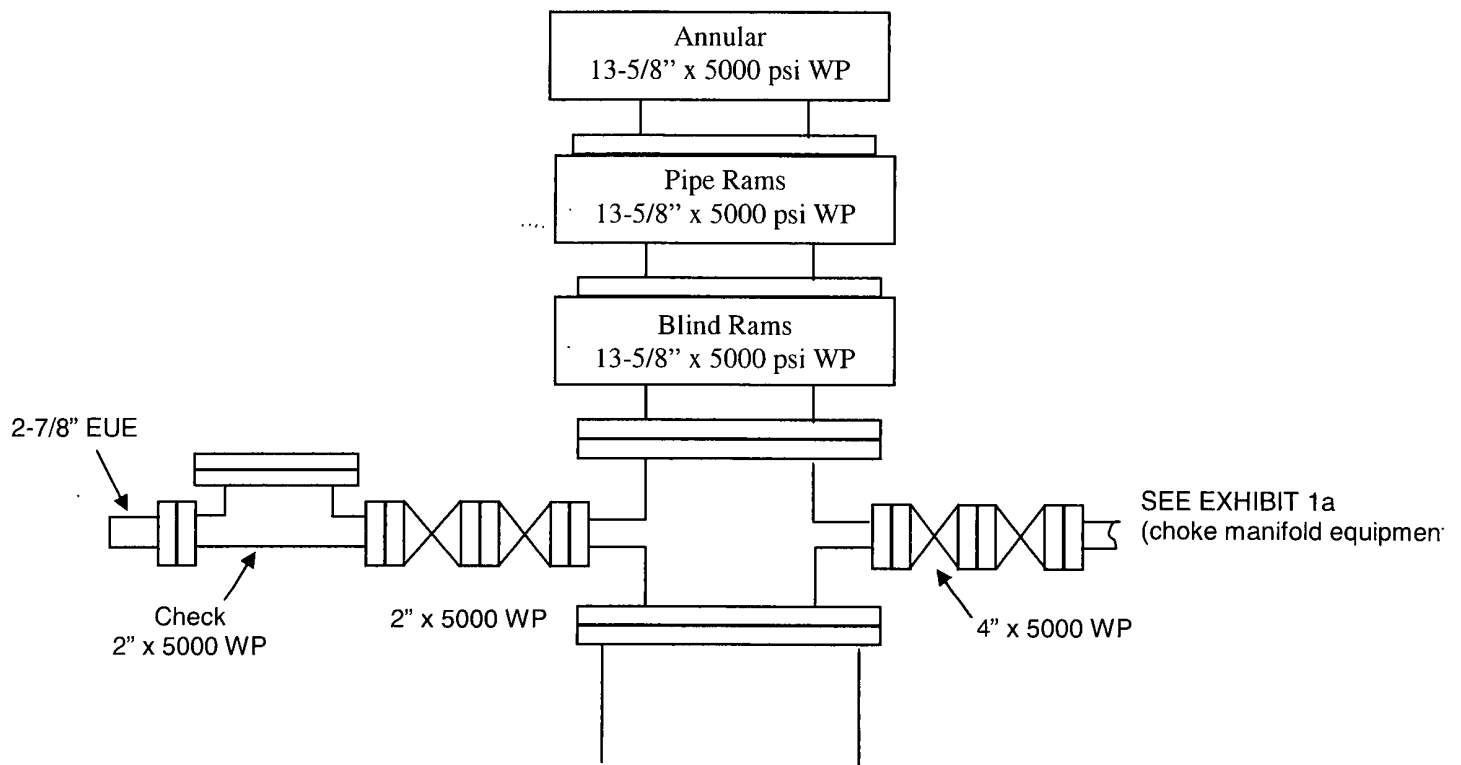
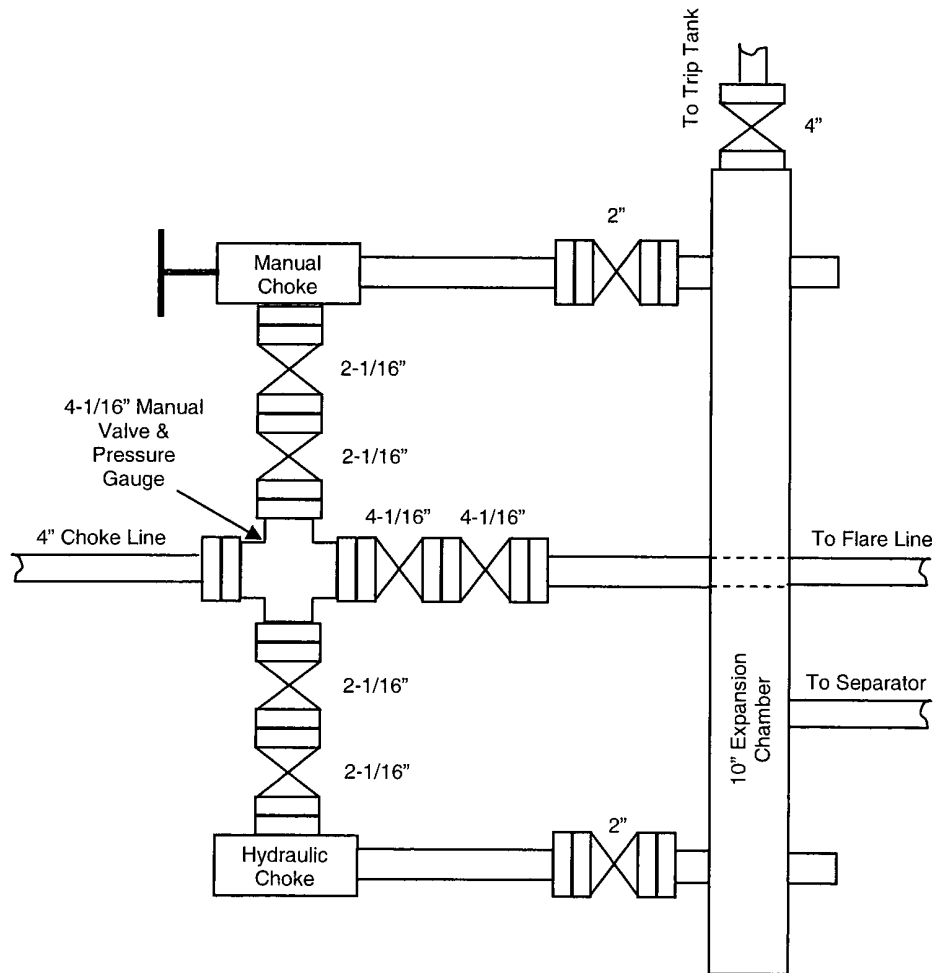
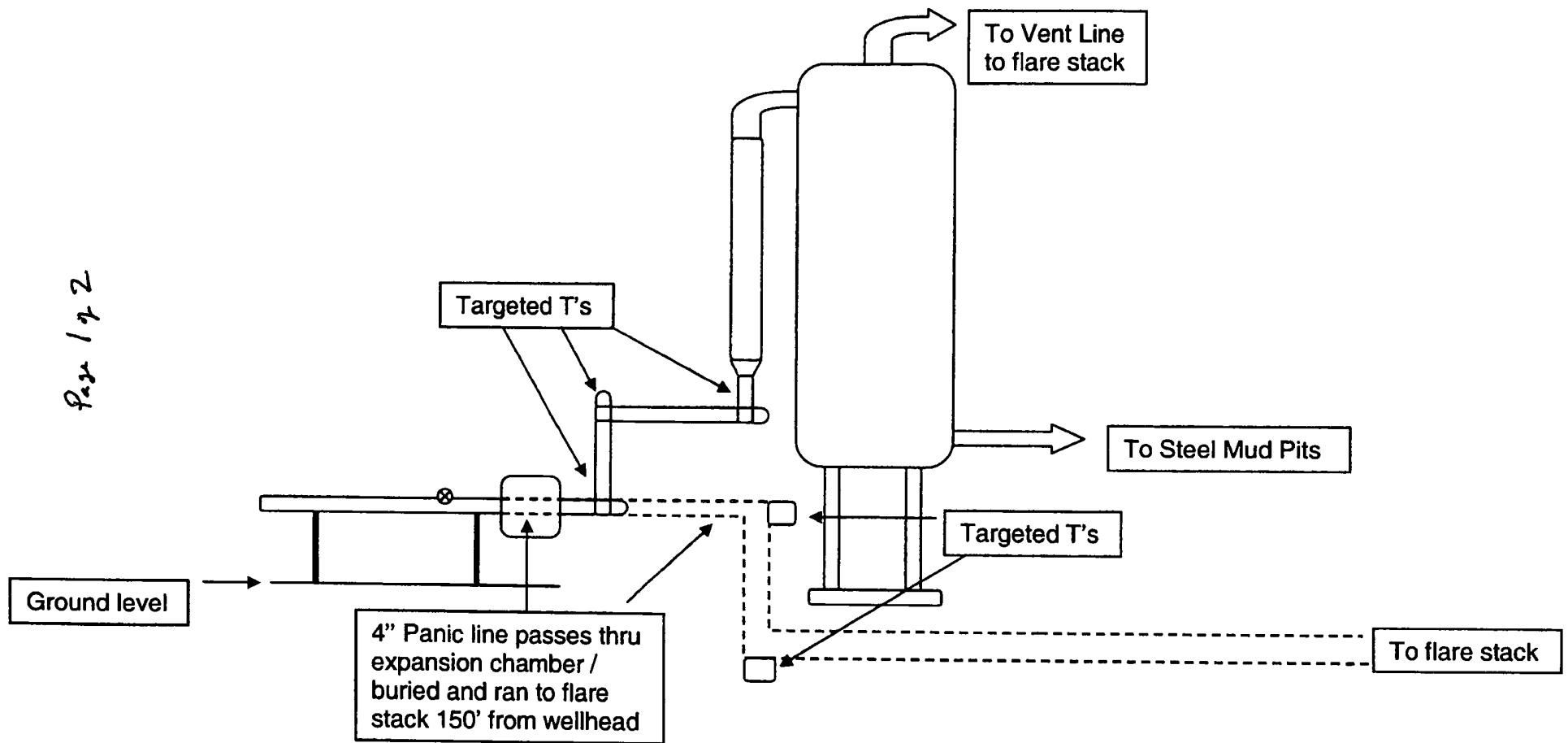


EXHIBIT 1a
EOG Resources, Inc.
5M Choke Manifold Equipment



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



Page 2 of 2

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

