

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

HOBS OGD
JUN 20 2011

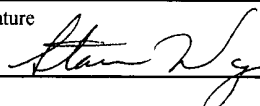
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NM 93; NM 26692 (SHL)
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	3b. Phone No. (include area code) 432-686-3689	8. Lease Name and Well No. <38667> Yucca 18 Federal 1H
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 770' FSL & 90' FWL, U/L M, Sec 17, T18S, R33E At proposed prod. zone 660' FSL & 330' FWL, U/L M, Sec 18, T18S, R33E		9. API Well No. 30-025-40167
14. Distance in miles and direction from nearest town or post office* Approximately +/- 12 miles South from Maljamar, NM		10. Field and Pool, or Exploratory Corbin; Bone Spring, South
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 244.33	11. Sec., T., R., M., or Blk. and Survey or Area Sec 17, T18S, R33E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 580' to Huber 17-1	19. Proposed Depth Pilot Hole 9000' 13429 MD - 8500 TVD	12. County or Parish Lea
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3849' GL	22. Approximate date work will start* 8/1/11	13. State NM
17. Spacing Unit dedicated to this well 160		
20. BLM/BIA Bond No. on file NM 2308		
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
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Title Regulatory Analyst		
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Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date JUN 15 2011
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Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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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.

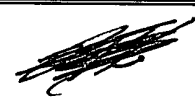
APPROVAL FOR TWO YEARS

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)

Capitan Controlled Water Basin


KZ 06/21/11

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

JUN 22 2011

EOG RESOURCES, INC.
YUCCA 18 FEDERAL NO. 1H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,430'
Top of Salt	1,530'
Base of Salt	2,730'
Yates	2,920'
Queen	4,165'
San Andres	4,758'
Delaware	5,129'
Brushy Canyon	5,748'
Bone Spring 1 Carb	7,000'
Bone Spring Sand 1	8,500'
Bone Spring 2 Carb	8,800'
TD	9,000'

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

Upper Permian Sands	0- 300'	Fresh Water
Brushy Canyon	5,748'	Oil
Bone Spring Sand 1	8,500'	Oil
Bone Spring 2 Carb	8,800'	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'	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'-13,429'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

**EOG RESOURCES, INC.
YUCCA 18 FEDERAL NO. 1H**

Cementing Program:

See COA

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 8800'-9000'	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
13,429'	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:

** See COA*

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.

EOG RESOURCES, INC.
YUCCA 18 FEDERAL NO. 1H

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 – 350'	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	28-34	N/c
8,043' – 13,429' Lateral	Cut Brine	8.5-9.0	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:

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.
YUCCA 18 FEDERAL 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.

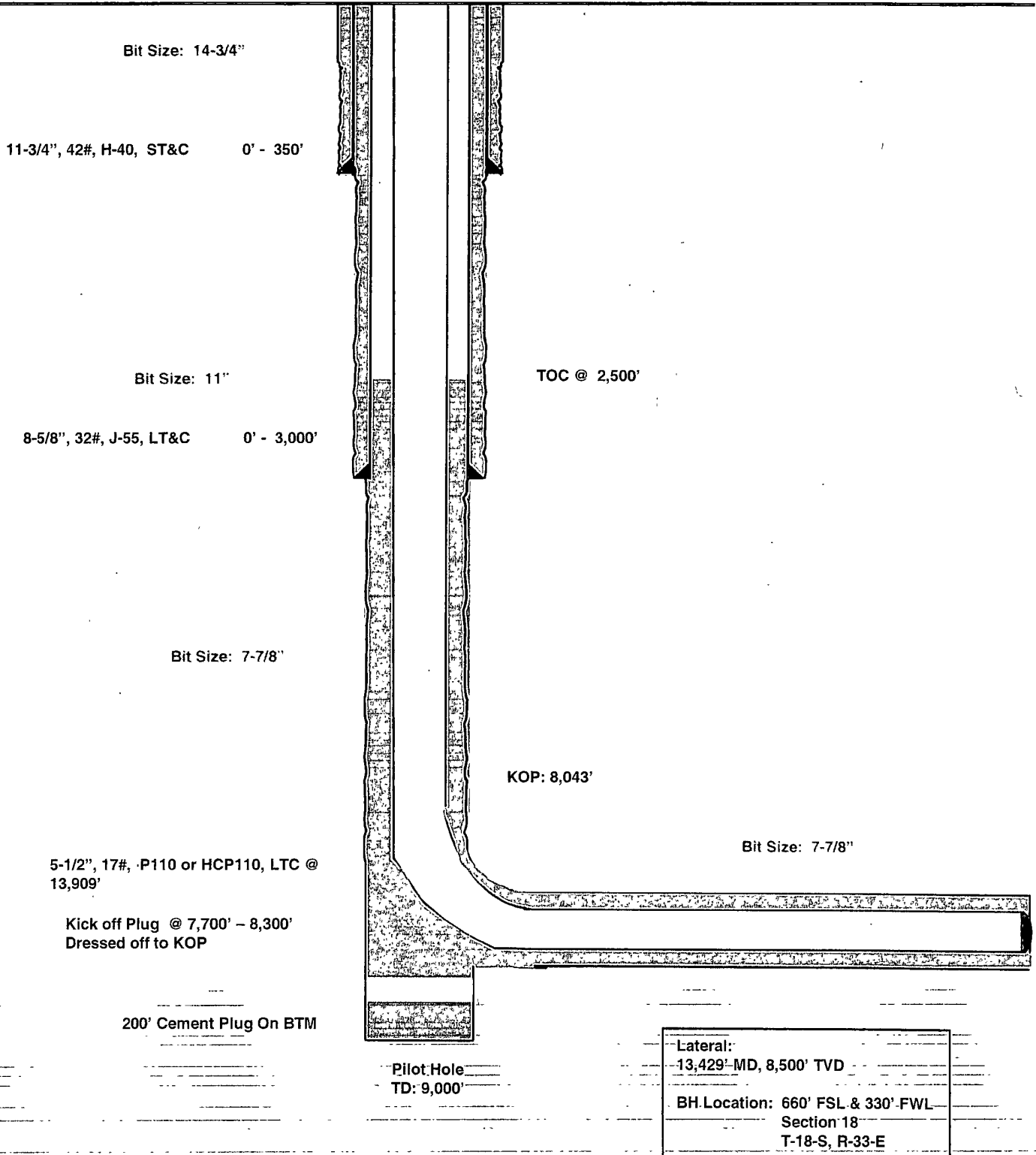
Yucca 18 Federal #1H
Lea County, New Mexico

770' FSL
90' FWL
Section 17
T-18-S, R-33-E

Proposed Wellbore

API: 30-025-*****

KB: 3,879.9'
GL: 3,849.9'





EOG Resources, Inc.

Lea County

Yucca 18 Federal

#1H

OH

Plan: Design #1

Pathfinder X & Y Planning Report

11 April, 2011

HOBBS OCD

JUN 20 2011

RECEIVED

PATHFINDER[®]

A Schlumberger Company



Pathfinder
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
Site:	Yucca 18 Federal	MD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
Well:	#1H	North Reference:	Grid
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)
Geo Datum:	NAD 1927 (NADCON CONUS)
Map Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

Site		Yucca 18 Federal					
Site Position:		Northing:	634,312.600	usft	Latitude:	32° 44' 31.864 N	
From:	Map	Easting:	696,869.600	usft	Longitude:	103° 41' 34.994 W	
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16 "	Grid Convergence:	0 35 °

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	634,312.600 usft	Latitude:	32° 44' 31.864 N
	+E/-W	0.00 usft	Easting:	696,869.600 usft	Longitude:	103° 41' 34.994 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,849.90 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	04/07/11	7.69	60.67	48,966

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		268.40	

Survey Tool Program		Date 04/08/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	13,429.05	Design #1 (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
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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	3,879.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
100.00	0.00	0.00	100.00	3,779.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
200.00	0.00	0.00	200.00	3,679.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
300.00	0.00	0.00	300.00	3,579.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
400.00	0.00	0.00	400.00	3,479.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
500.00	0.00	0.00	500.00	3,379.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
600.00	0.00	0.00	600.00	3,279.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
700.00	0.00	0.00	700.00	3,179.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
800.00	0.00	0.00	800.00	3,079.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
900.00	0.00	0.00	900.00	2,979.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,000.00	0.00	0.00	1,000.00	2,879.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,100.00	0.00	0.00	1,100.00	2,779.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,200.00	0.00	0.00	1,200.00	2,679.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,300.00	0.00	0.00	1,300.00	2,579.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,400.00	0.00	0.00	1,400.00	2,479.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,500.00	0.00	0.00	1,500.00	2,379.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,600.00	0.00	0.00	1,600.00	2,279.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,700.00	0.00	0.00	1,700.00	2,179.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,800.00	0.00	0.00	1,800.00	2,079.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
1,900.00	0.00	0.00	1,900.00	1,979.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,000.00	0.00	0.00	2,000.00	1,879.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,100.00	0.00	0.00	2,100.00	1,779.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,200.00	0.00	0.00	2,200.00	1,679.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,300.00	0.00	0.00	2,300.00	1,579.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,400.00	0.00	0.00	2,400.00	1,479.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,500.00	0.00	0.00	2,500.00	1,379.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,600.00	0.00	0.00	2,600.00	1,279.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	



Pathfinder
Pathfinder X & Y Planning Report



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Project:	Lea County	TVD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
Site:	Yucca 18 Federal	MD Reference:	RKB-30' @ 3879.90usft (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	1,179.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,800.00	0.00	0.00	2,800.00	1,079.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
2,900.00	0.00	0.00	2,900.00	979.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,000.00	0.00	0.00	3,000.00	879.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,100.00	0.00	0.00	3,100.00	779.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,200.00	0.00	0.00	3,200.00	679.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,300.00	0.00	0.00	3,300.00	579.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,400.00	0.00	0.00	3,400.00	479.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,500.00	0.00	0.00	3,500.00	379.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,600.00	0.00	0.00	3,600.00	279.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,700.00	0.00	0.00	3,700.00	179.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,800.00	0.00	0.00	3,800.00	79.90	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
3,900.00	0.00	0.00	3,900.00	-20.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,000.00	0.00	0.00	4,000.00	-120.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,100.00	0.00	0.00	4,100.00	-220.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,200.00	0.00	0.00	4,200.00	-320.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,300.00	0.00	0.00	4,300.00	-420.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,400.00	0.00	0.00	4,400.00	-520.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,500.00	0.00	0.00	4,500.00	-620.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,600.00	0.00	0.00	4,600.00	-720.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,700.00	0.00	0.00	4,700.00	-820.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,800.00	0.00	0.00	4,800.00	-920.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
4,900.00	0.00	0.00	4,900.00	-1,020.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,000.00	0.00	0.00	5,000.00	-1,120.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,100.00	0.00	0.00	5,100.00	-1,220.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,200.00	0.00	0.00	5,200.00	-1,320.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,300.00	0.00	0.00	5,300.00	-1,420.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	



Pathfinder
Pathfinder X & Y Planning Report



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5,400.00	0.00	0.00	5,400.00	-1,520.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,500.00	0.00	0.00	5,500.00	-1,620.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,600.00	0.00	0.00	5,600.00	-1,720.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,700.00	0.00	0.00	5,700.00	-1,820.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,800.00	0.00	0.00	5,800.00	-1,920.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
5,900.00	0.00	0.00	5,900.00	-2,020.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,000.00	0.00	0.00	6,000.00	-2,120.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,100.00	0.00	0.00	6,100.00	-2,220.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,200.00	0.00	0.00	6,200.00	-2,320.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,300.00	0.00	0.00	6,300.00	-2,420.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,400.00	0.00	0.00	6,400.00	-2,520.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,500.00	0.00	0.00	6,500.00	-2,620.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,600.00	0.00	0.00	6,600.00	-2,720.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,700.00	0.00	0.00	6,700.00	-2,820.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,800.00	0.00	0.00	6,800.00	-2,920.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
6,900.00	0.00	0.00	6,900.00	-3,020.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,000.00	0.00	0.00	7,000.00	-3,120.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,100.00	0.00	0.00	7,100.00	-3,220.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,200.00	0.00	0.00	7,200.00	-3,320.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,300.00	0.00	0.00	7,300.00	-3,420.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,400.00	0.00	0.00	7,400.00	-3,520.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,500.00	0.00	0.00	7,500.00	-3,620.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,600.00	0.00	0.00	7,600.00	-3,720.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,700.00	0.00	0.00	7,700.00	-3,820.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,800.00	0.00	0.00	7,800.00	-3,920.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
7,900.00	0.00	0.00	7,900.00	-4,020.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
8,000.00	0.00	0.00	8,000.00	-4,120.10	0.00	0.00	0.00	0.00	634,312.60	696,869.60	



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
Site:	Yucca 18 Federal	MD Reference:	RKB-30' @ 3879.90usft (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)	
8,042.60	0.00	0.00	8,042.60	-4,162.70	0.00	0.00	0.00	0.00	634,312.60	696,869.60	
KOP-8042.60°MD,0.00°INC,0.00°AZI,8042.60°TVD											
8,050.00	0.89	268.40	8,050.00	-4,170.10	0.00	-0.06	0.06	12.00	634,312.60	696,869.54	
8,075.00	3.89	268.40	8,074.98	-4,195.08	-0.03	-1.10	1.10	12.00	634,312.57	696,868.50	
8,100.00	6.89	268.40	8,099.86	-4,219.96	-0.10	-3.45	3.45	12.00	634,312.50	696,866.15	
8,125.00	9.89	268.40	8,124.59	-4,244.69	-0.20	-7.09	7.09	12.00	634,312.40	696,862.51	
8,150.00	12.89	268.40	8,149.10	-4,269.20	-0.34	-12.03	12.03	12.00	634,312.26	696,857.57	
8,175.00	15.89	268.40	8,173.31	-4,293.41	-0.51	-18.23	18.24	12.00	634,312.09	696,851.37	
8,200.00	18.89	268.40	8,197.16	-4,317.26	-0.72	-25.70	25.71	12.00	634,311.88	696,843.90	
8,225.00	21.89	268.40	8,220.59	-4,340.69	-0.96	-34.41	34.42	12.00	634,311.64	696,835.19	
8,250.00	24.89	268.40	8,243.54	-4,363.64	-1.24	-44.33	44.35	12.00	634,311.36	696,825.27	
8,275.00	27.89	268.40	8,265.93	-4,386.03	-1.55	-55.44	55.46	12.00	634,311.05	696,814.16	
8,300.00	30.89	268.40	8,287.71	-4,407.81	-1.89	-67.70	67.73	12.00	634,310.71	696,801.90	
8,325.00	33.89	268.40	8,308.82	-4,428.92	-2.26	-81.09	81.12	12.00	634,310.34	696,788.51	
8,350.00	36.89	268.40	8,329.19	-4,449.29	-2.67	-95.56	95.59	12.00	634,309.93	696,774.04	
8,375.00	39.89	268.40	8,348.79	-4,468.89	-3.10	-111.08	111.12	12.00	634,309.50	696,758.52	
8,400.00	42.89	268.40	8,367.54	-4,487.64	-3.56	-127.60	127.65	12.00	634,309.04	696,742.00	
8,425.00	45.89	268.40	8,385.40	-4,505.50	-4.05	-145.08	145.14	12.00	634,308.55	696,724.52	
8,450.00	48.89	268.40	8,402.32	-4,522.42	-4.57	-163.47	163.53	12.00	634,308.03	696,706.13	
8,475.00	51.89	268.40	8,418.26	-4,538.36	-5.10	-182.72	182.79	12.00	634,307.50	696,686.88	
8,500.00	54.89	268.40	8,433.16	-4,553.26	-5.66	-202.78	202.86	12.00	634,306.94	696,666.82	
8,525.00	57.90	268.40	8,447.00	-4,567.10	-6.25	-223.59	223.68	12.00	634,306.35	696,646.01	
8,550.00	60.90	268.40	8,459.73	-4,579.83	-6.85	-245.10	245.19	12.00	634,305.75	696,624.50	
8,575.00	63.90	268.40	8,471.31	-4,591.41	-7.46	-267.24	267.35	12.00	634,305.14	696,602.36	
8,600.00	66.90	268.40	8,481.72	-4,601.82	-8.10	-289.96	290.07	12.00	634,304.50	696,579.64	
8,625.00	69.90	268.40	8,490.92	-4,611.02	-8.75	-313.19	313.32	12.00	634,303.85	696,556.41	
8,650.00	72.90	268.40	8,498.89	-4,618.99	-9.41	-336.87	337.01	12.00	634,303.19	696,532.73	



Pathfinder
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PATHFINDER
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Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
Site:	Yucca 18 Federal	MD Reference:	RKB-30' @ 3879.90usft (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)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
8,675.00	75.90	268.40	8,505.62	-4,625.72	-10.08	-360.94	361.08	12.00	634,302.52	696,508.66	
8,700.00	78.90	268.40	8,511.07	-4,631.17	-10.76	-385.33	385.48	12.00	634,301.84	696,484.27	
8,725.00	81.90	268.40	8,515.24	-4,635.34	-11.45	-409.96	410.12	12.00	634,301.15	696,459.64	
8,750.00	84.90	268.40	8,518.11	-4,638.21	-12.14	-434.79	434.96	12.00	634,300.46	696,434.81	
8,775.00	87.90	268.40	8,519.68	-4,639.78	-12.84	-459.72	459.90	12.00	634,299.76	696,409.88	
8,794.59	90.25	268.40	8,520.00	-4,640.10	-13.39	-479.30	479.49	12.00	634,299.21	696,390.30	
EOC-8794.59°MD,90.25°INC,268.40°AZI,8520.00°TVD											
8,800.00	90.25	268.40	8,519.98	-4,640.08	-13.54	-484.71	484.90	0.00	634,299.06	696,384.89	
8,900.00	90.25	268.40	8,519.54	-4,639.64	-16.33	-584.67	584.90	0.00	634,296.27	696,284.93	
9,000.00	90.25	268.40	8,519.10	-4,639.20	-19.12	-684.63	684.90	0.00	634,293.48	696,184.97	
9,100.00	90.25	268.40	8,518.67	-4,638.77	-21.92	-784.59	784.90	0.00	634,290.68	696,085.01	
9,200.00	90.25	268.40	8,518.23	-4,638.33	-24.71	-884.55	884.90	0.00	634,287.89	695,985.05	
9,300.00	90.25	268.40	8,517.79	-4,637.89	-27.50	-984.51	984.89	0.00	634,285.10	695,885.09	
9,400.00	90.25	268.40	8,517.36	-4,637.46	-30.29	-1,084.47	1,084.89	0.00	634,282.31	695,785.13	
9,500.00	90.25	268.40	8,516.92	-4,637.02	-33.08	-1,184.43	1,184.89	0.00	634,279.52	695,685.17	
9,600.00	90.25	268.40	8,516.49	-4,636.59	-35.88	-1,284.39	1,284.89	0.00	634,276.72	695,585.21	
9,700.00	90.25	268.40	8,516.05	-4,636.15	-38.67	-1,384.35	1,384.89	0.00	634,273.93	695,485.25	
9,800.00	90.25	268.40	8,515.61	-4,635.71	-41.46	-1,484.31	1,484.89	0.00	634,271.14	695,385.29	
9,900.00	90.25	268.40	8,515.18	-4,635.28	-44.25	-1,584.27	1,584.89	0.00	634,268.35	695,285.33	
10,000.00	90.25	268.40	8,514.74	-4,634.84	-47.04	-1,684.23	1,684.89	0.00	634,265.56	695,185.37	
10,100.00	90.25	268.40	8,514.30	-4,634.40	-49.84	-1,784.19	1,784.89	0.00	634,262.76	695,085.41	
10,200.00	90.25	268.40	8,513.87	-4,633.97	-52.63	-1,884.15	1,884.89	0.00	634,259.97	694,985.45	
10,300.00	90.25	268.40	8,513.43	-4,633.53	-55.42	-1,984.11	1,984.88	0.00	634,257.18	694,885.49	
10,400.00	90.25	268.40	8,513.00	-4,633.10	-58.21	-2,084.07	2,084.88	0.00	634,254.39	694,785.53	
10,500.00	90.25	268.40	8,512.56	-4,632.66	-61.01	-2,184.03	2,184.88	0.00	634,251.59	694,685.57	
10,600.00	90.25	268.40	8,512.12	-4,632.22	-63.80	-2,283.99	2,284.88	0.00	634,248.80	694,585.61	
10,700.00	90.25	268.40	8,511.69	-4,631.79	-66.59	-2,383.95	2,384.88	0.00	634,246.01	694,485.65	



Pathfinder
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
Site:	Yucca 18 Federal	MD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
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)	D Leg (%/100usft)	Northing (usft)	Easting (usft)	
10,800.00	90.25	268.40	8,511.25	-4,631.35	-69.38	-2,483.91	2,484.88	0.00	634,243.22	694,385.69	
10,900.00	90.25	268.40	8,510.81	-4,630.91	-72.17	-2,583.87	2,584.88	0.00	634,240.43	694,285.73	
11,000.00	90.25	268.40	8,510.38	-4,630.48	-74.97	-2,683.83	2,684.88	0.00	634,237.63	694,185.77	
11,100.00	90.25	268.40	8,509.94	-4,630.04	-77.76	-2,783.79	2,784.88	0.00	634,234.84	694,085.81	
11,200.00	90.25	268.40	8,509.50	-4,629.60	-80.55	-2,883.75	2,884.88	0.00	634,232.05	693,985.85	
11,300.00	90.25	268.40	8,509.07	-4,629.17	-83.34	-2,983.71	2,984.88	0.00	634,229.26	693,885.89	
11,400.00	90.25	268.40	8,508.63	-4,628.73	-86.13	-3,083.67	3,084.87	0.00	634,226.47	693,785.93	
11,500.00	90.25	268.40	8,508.20	-4,628.30	-88.93	-3,183.63	3,184.87	0.00	634,223.67	693,685.97	
11,600.00	90.25	268.40	8,507.76	-4,627.86	-91.72	-3,283.59	3,284.87	0.00	634,220.88	693,586.01	
11,700.00	90.25	268.40	8,507.32	-4,627.42	-94.51	-3,383.55	3,384.87	0.00	634,218.09	693,486.05	
11,800.00	90.25	268.40	8,506.89	-4,626.99	-97.30	-3,483.51	3,484.87	0.00	634,215.30	693,386.09	
11,900.00	90.25	268.40	8,506.45	-4,626.55	-100.10	-3,583.47	3,584.87	0.00	634,212.50	693,286.13	
12,000.00	90.25	268.40	8,506.01	-4,626.11	-102.89	-3,683.43	3,684.87	0.00	634,209.71	693,186.17	
12,100.00	90.25	268.40	8,505.58	-4,625.68	-105.68	-3,783.39	3,784.87	0.00	634,206.92	693,086.21	
12,200.00	90.25	268.40	8,505.14	-4,625.24	-108.47	-3,883.35	3,884.87	0.00	634,204.13	692,986.25	
12,300.00	90.25	268.40	8,504.70	-4,624.80	-111.26	-3,983.31	3,984.87	0.00	634,201.34	692,886.29	
12,400.00	90.25	268.40	8,504.27	-4,624.37	-114.06	-4,083.27	4,084.86	0.00	634,198.54	692,786.33	
12,500.00	90.25	268.40	8,503.83	-4,623.93	-116.85	-4,183.23	4,184.86	0.00	634,195.75	692,686.37	
12,600.00	90.25	268.40	8,503.40	-4,623.50	-119.64	-4,283.19	4,284.86	0.00	634,192.96	692,586.41	
12,700.00	90.25	268.40	8,502.96	-4,623.06	-122.43	-4,383.15	4,384.86	0.00	634,190.17	692,486.45	
12,800.00	90.25	268.40	8,502.52	-4,622.62	-125.22	-4,483.11	4,484.86	0.00	634,187.38	692,386.49	
12,900.00	90.25	268.40	8,502.09	-4,622.19	-128.02	-4,583.07	4,584.86	0.00	634,184.58	692,286.53	
13,000.00	90.25	268.40	8,501.65	-4,621.75	-130.81	-4,683.03	4,684.86	0.00	634,181.79	692,186.57	
13,100.00	90.25	268.40	8,501.21	-4,621.31	-133.60	-4,782.99	4,784.86	0.00	634,179.00	692,086.61	
13,200.00	90.25	268.40	8,500.78	-4,620.88	-136.39	-4,882.95	4,884.86	0.00	634,176.21	691,986.65	
13,300.00	90.25	268.40	8,500.34	-4,620.44	-139.19	-4,982.91	4,984.86	0.00	634,173.41	691,886.69	
13,400.00	90.25	268.40	8,499.91	-4,620.01	-141.98	-5,082.87	5,084.86	0.00	634,170.62	691,786.73	



Pathfinder
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Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County	TVD Reference:	RKB-30' @ 3879.90usft (Cactus #123)
Site:	Yucca 18 Federal	MD Reference:	RKB-30' @ 3879.90usft (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)	
13,429.05	90.25	268.40	8,499.78	-4,619.88	-142.79	-5,111.91	5,113.90	0.00	634,169.81	691,757.69	
TD at 13429.05 - BHL (Yucca18Fed#1H)											

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,042.60	8,042.60	0.00	0.00	KOP-8042.60°MD,0.00°INC,0.00°AZI,8042.60°TVD	
8,794.59	8,520.00	-13.39	-479.30	EOC-8794.59°MD,90.25°INC,268.40°AZI,8520.00°TVD	
13,429.05	8,499.78	-142.79	-5,111.91	TD at 13429.05	

Checked By: _____	Approved By: _____	Date: _____
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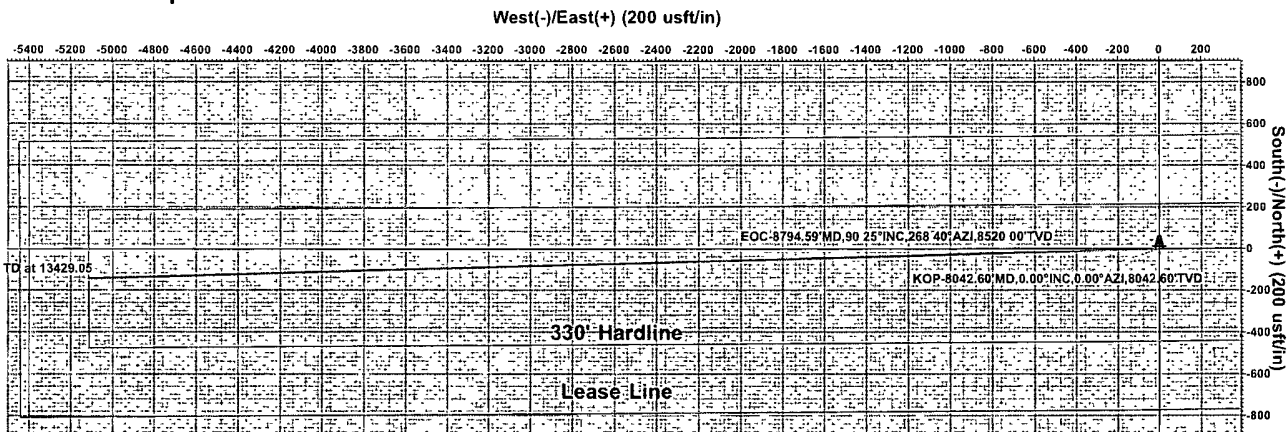


Azimuths to Grid North
True North: -0.35°
Magnetic North: 7.35°

Magnetic Field
Strength: 48965.9snT
Dip Angle: 60.67°
Date: 04/07/2011
Model: IGRF200510

PATHFINDER
A Schlumberger Company

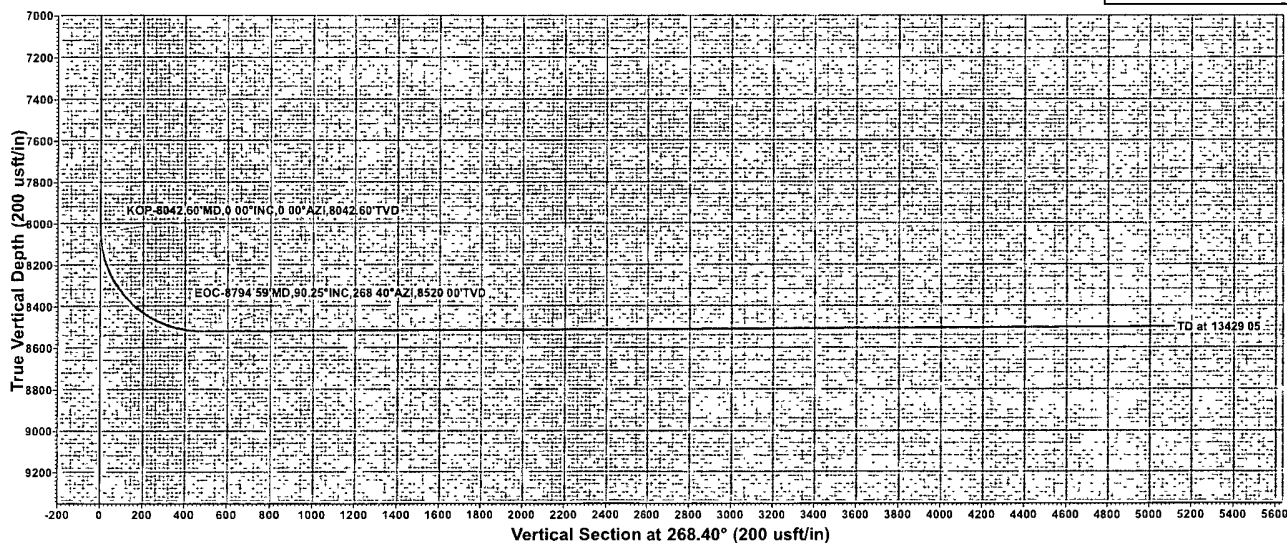
Project: Lea County
Site: Yucca 18 Federal
Well: #1H
Wellbore: OH
Plan: Design #1 (#1H/OH)



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	0.00
8042 60	0 00	0 00	8042 60	0 00	0 00	0 00	0 00	0 00	0.00
8794 59	90 25	268 40	8520 00	-13 39	-479 30	12 00	268 40	479 49	
13429 05	90 25	268 40	8499 78	-142 79	-5111 91	0 00	0 00	5113 90	BHL (Yucca18Fed#1H)

WELL DETAILS: #1H						
Ground Elevation 3849 90						
RKB Elevation RKB-30' @ 3879 90usft (Cactus #123)						
Rig Name Cactus #123						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	634312 600	696869 600	32° 44' 31 864 N	103° 41' 34 994 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (Yucca18Fed#1H)	8499 00	-143 10	-5111 90	634169.500	691757 700	Point



LEGEND

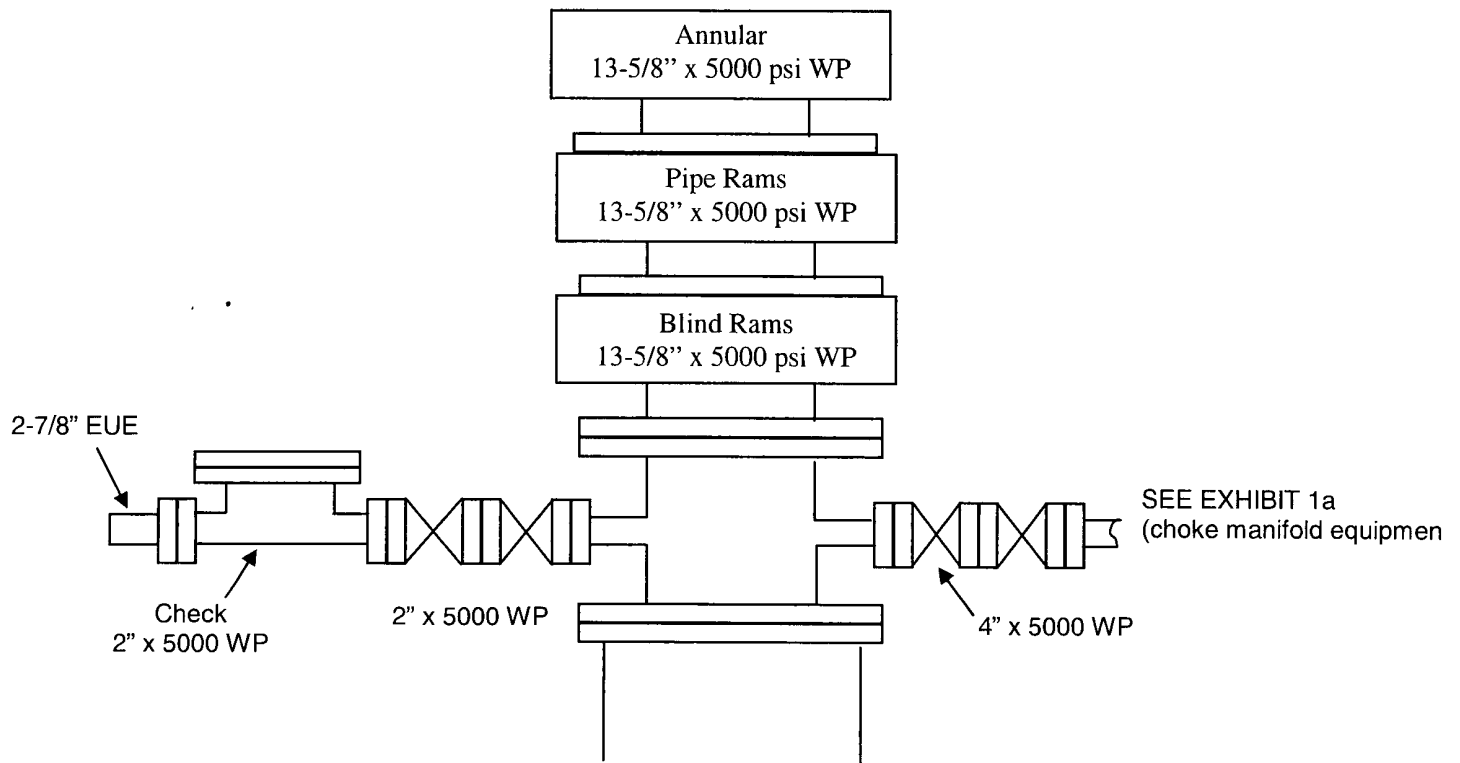
→ Design #1

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	14 35, April 11 2011
Checked	
Date	

EXHIBIT 1

EOG Resources
5000 PSI BOPE
Yucca 18 Federal #1H

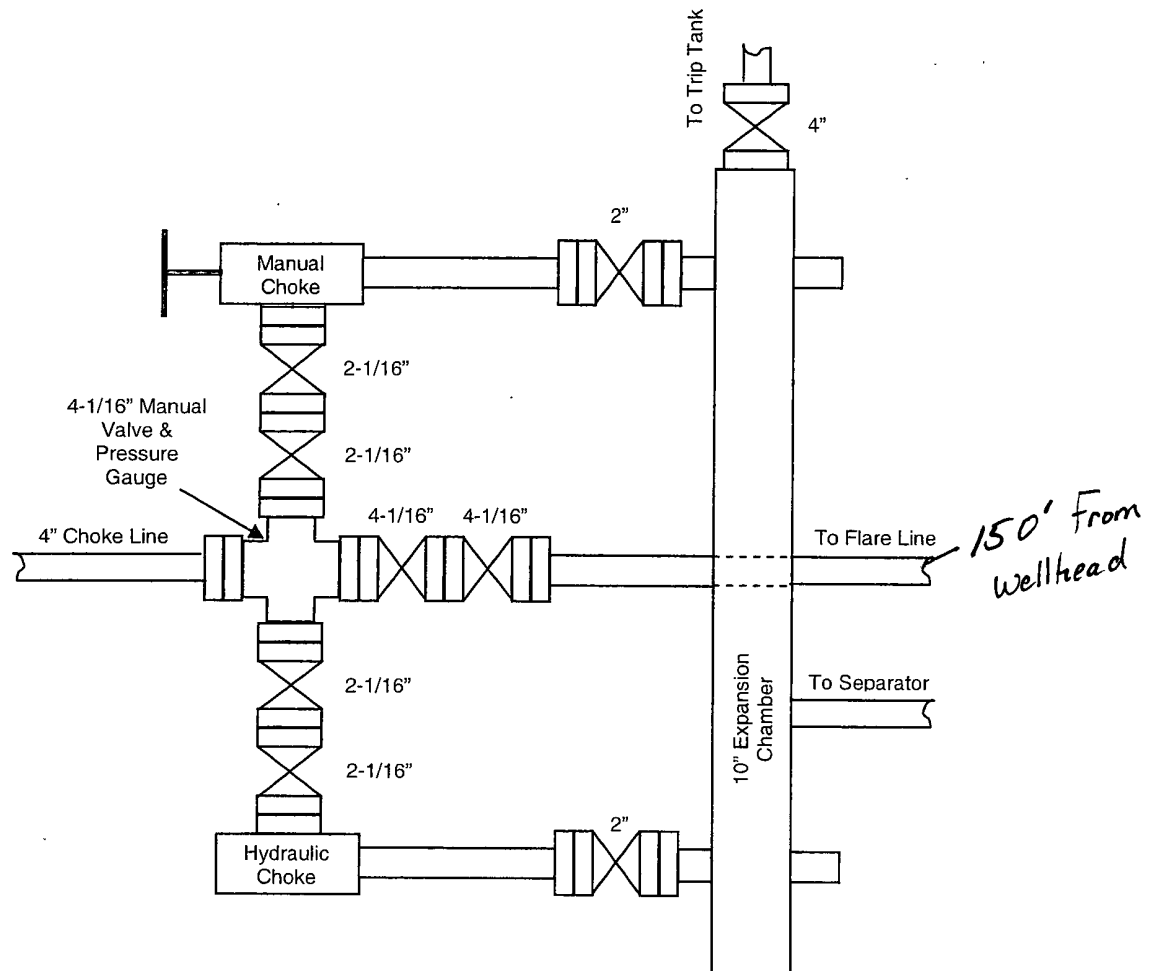


EOG RESOURCES, INC.
YUCCA 18 FEDERAL 1H

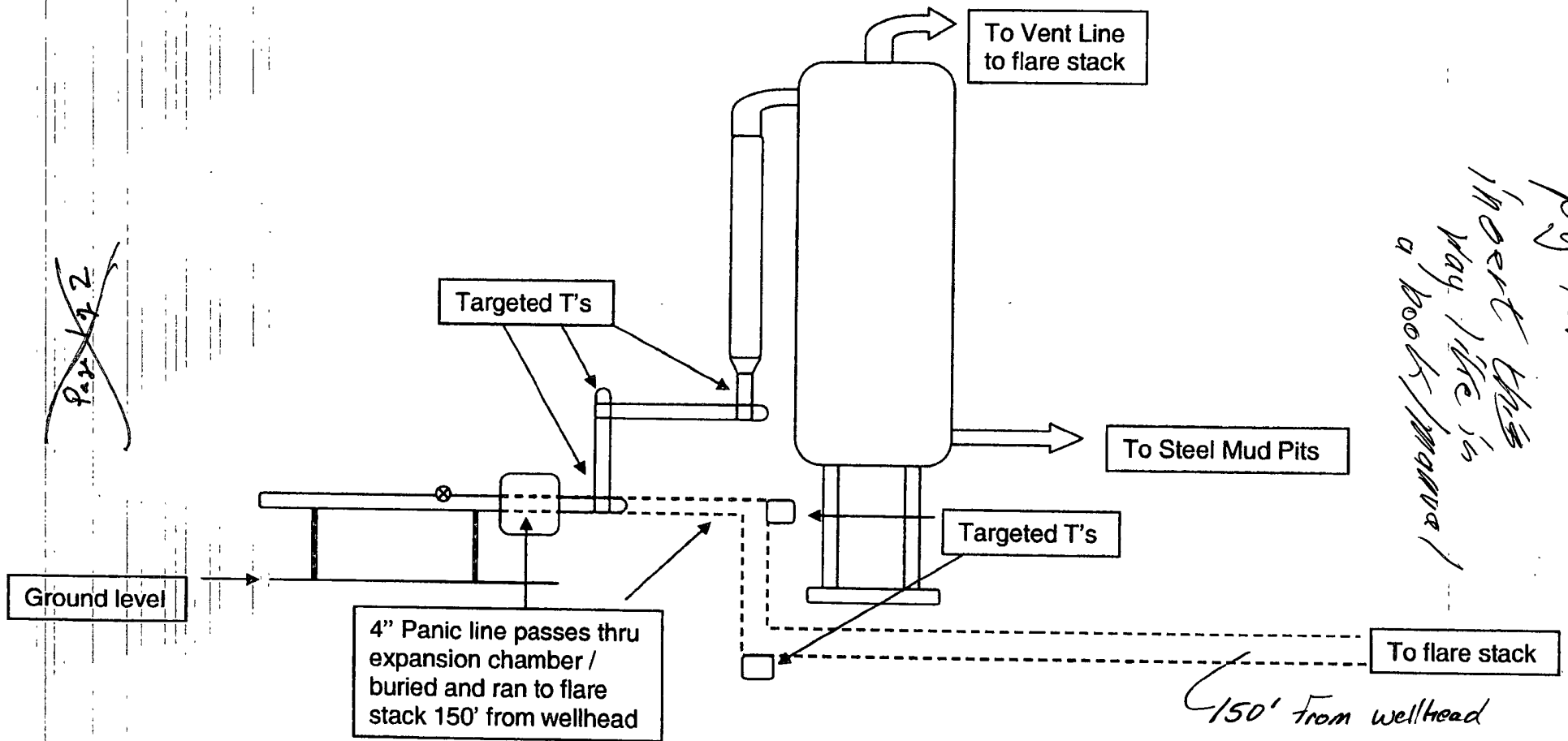
ATTACHMENT TO EXHIBIT #1

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

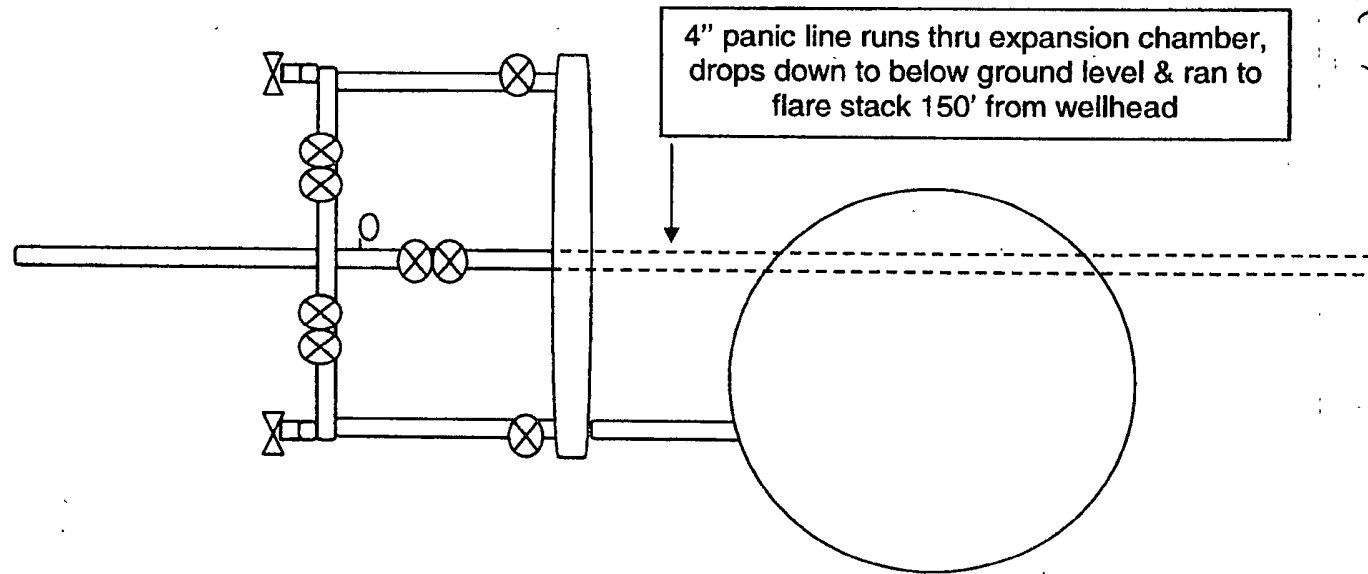


Profile View of Piping from Choke Manifold
to the Mud Gas Separator



*pg 1 of 2
insert this
page like in
a book/memo*

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



~~Page 2 of 2~~

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