

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

ATS-11-377
FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

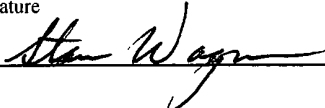
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NM121490	
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. <38729>	
3b. Phone No. (include area code) 432-686-3689		9. API Well No. 30-025-40213	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 170' FNL & 1760' FEL, U/L B, Sec 26, T26S, R33E At proposed prod. zone 330' FSL & 1760' FEL, U/L G, Sec 35, T26S, R33E		10. Field and Pool, Bradley, Bone Spring	
14. Distance in miles and direction from nearest town or post office* +/- 30 miles SW from Jal, NM		11. Sec, T., R., M., or Blk and Survey or Area Sec 26, T26S, R33E	
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drg. unit line, if any) 170'	16. No. of Acres in lease 1305.20	17. Spacing Unit dedicated to this well 236.28	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1330'	19. Proposed Depth 16713' MD - 9620' VD	20. BLM/BIA Bond No. on file NM-2308	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3314' GL	22. Approximate date work will start* 5/1/2011	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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the BLM

25. Signature 	Name (Printed/Typed) Stan Wagner	Date 2/3/2011
Title Regulatory Analyst		
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date JUL 22 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

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

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED
K2 08/02/11
AUG 02 2011
HOBBS OCD

Approval Subject to General Requirements
& Special Stipulations Attached

AUG 03 2011

EOG RESOURCES, INC.
FRAM 26 FEDERAL NO. 2H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	870'
Top of Salt	1,360'
Base of Salt	4,895'
Lamar	5,134'
Bell Canyon	5,162'
Cherry Canyon	6,204'
Brushy Canyon	7,754'
Bone Spring Lime	9,370'
1 st Bone Spring Sand	10,290'
TD	9,620'

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

Upper Permian Sands	0- 400'	Fresh Water
Lamar	5,134'	Oil
Brushy Canyon	7,754'	Oil
Bone Spring Lime	9,370'	Oil
1 st Bone Spring Sand	10,290'	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 900' 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 - 900' 425	13.375"	54.5#	J55	S /TC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000'-5100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-16,713'	5.5"	20#	HCP110 ot P-110	NSCC	1.125	1.25	1.60

**EOG RESOURCES, INC.
FRAM 26 FEDERAL NO. 2H**

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
900'	350	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ surface)
	200	14.8	1.34	Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
5,100'	750	12.7	2.22	Lead: Class 'C' + 2.00% SMS + 1.50% R-3 + 0.25 lb/sk Cello Flake + 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
16,713'	100	10.8	3.67	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 @ 4800')
	400	11.8	2.38	Lead: 50:50:10 Class 'H' + 0.80% FL-52A + 0.30% ASA-301 + 0.30% SMS + 2.00% Salt (2.259 lb/sk) + 0.20% R-21 + 0.25 lb/sk Cello Flake
	1925	14.2	1.28	Tail: 50:50:2 Class 'H' + 0.30% FL-52A + 0.20% CD-32 + 0.35% SMS + 5.00% Salt (2.454 lb/sk) + 0.45% R-3 + 0.005 lb/sk Static Free

Cement volumes based on bit size + 25% excess.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. Prior to drilling out of the surface casing, the BOP's will be tested to 2000/250 psig. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 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.

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

EOG RESOURCES, INC.
FRAM 26 FEDERAL NO. 2H

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of fresh water, and brine water, with polymer sweeps. The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 900' 925	Fresh - Gel	8.6-8.8	28-34	N/c
900' – 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' – 8,500'	Fresh Water	8.4-8.6	28-34	N/c
9,142' – 16,713' Lateral	Cut Brine	9.0-9.5	28-34	N/c

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

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) A mud logging unit will be continuously monitoring drill penetration rate and hydrocarbon shows from 900' to TD.
- (D) H₂S monitoring and detection equipment will be utilized from 900' 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 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

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

The estimated bottom hole temperature (BHT) at TD is 156 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4200 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 two months. If the well is productive, an additional 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

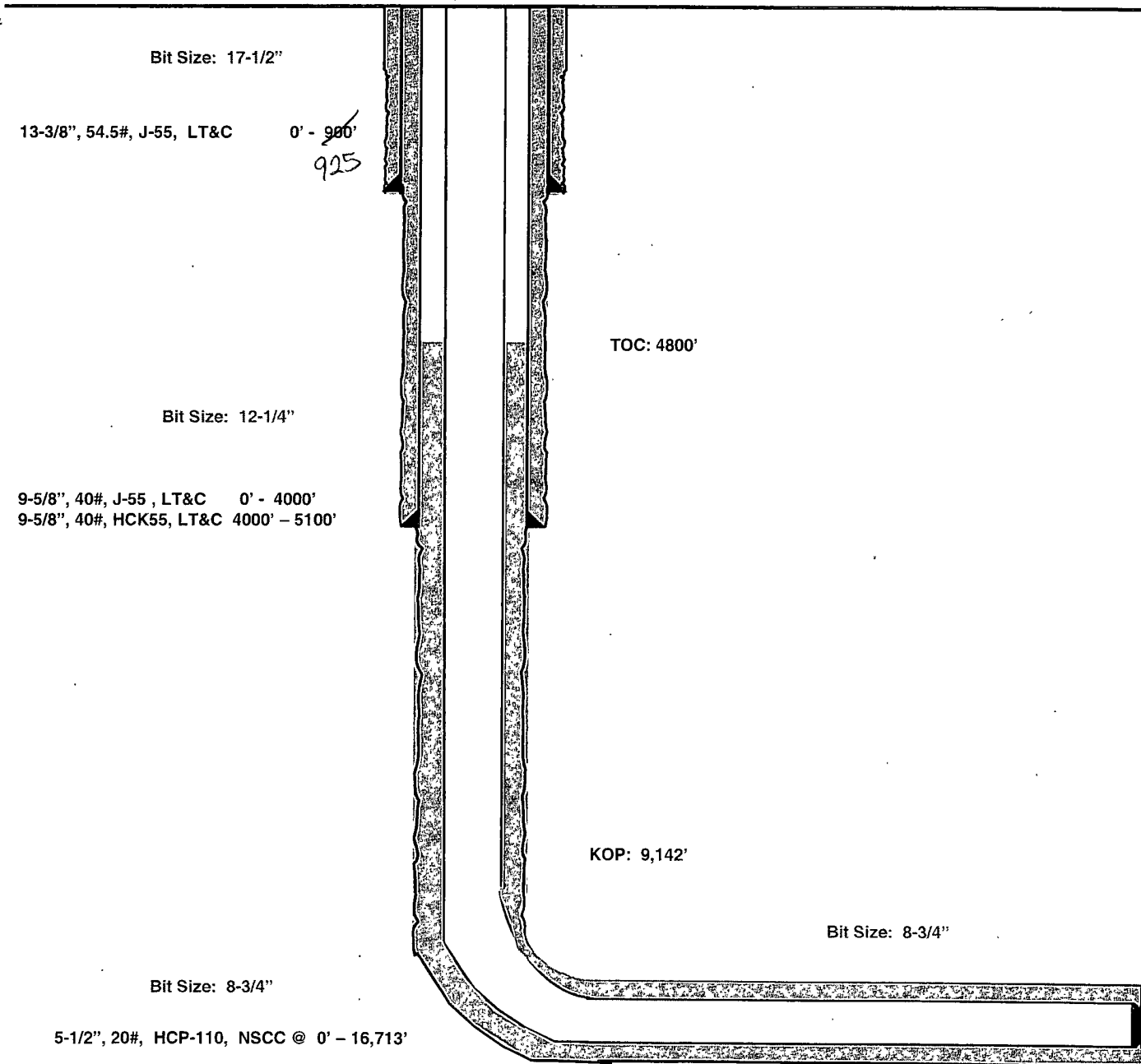
Fram 26 Federal #2H
Red Hills
Lea County, New Mexico

170' FNL
1760' FEL
Section 26
T-26-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,344.6'
GL: 3,314.6'



Bone Spring Sand Lateral: 16,713' MD, 9,620' TVD

BH Location: 330' FSL & 1760' FEL
Section 35
T-26-S, R-33-E



EOG Resources, Inc.

Lea County

Fram "26" Federal

#2H

OH

Plan: Plan #1

Pathfinder X & Y Planning Report

29 November, 2010

PATHFINDER[®]

A Schlumberger Company



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: EOG Resources, Inc.
Project: Lea County
Site: Fram "26" Federal
Well: #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #2H
TVD Reference: WELL @ 3344.60ft (30' KB Correction Cactus #12
MD Reference: WELL @ 3344.60ft (30' KB Correction Cactus #12
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

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: Fram "26" Federal

Site Position:	Northings:	372,314.900 ft	Latitude:	32° 1' 15.954 N
From: Map	Easting:	747,265.200 ft	Longitude:	103° 32' 7.867 W
Position Uncertainty: 0.00 ft	Slot Radius:	"	Grid Convergence:	0.42 °

Well: #2H

Well Position	+N/-S	0 00 ft	Northings:	372,306.100 ft	Latitude:	32° 1' 15.964 N
	+E/-W	0 00 ft	Easting:	745,935.200 ft	Longitude:	103° 32' 23.315 W
Position Uncertainty	0 00 ft		Wellhead Elevation:	ft	Ground Level:	3,314.60 ft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/29/10	7.61	60.04	48,586

Design: Plan #1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0 00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0 00	0.00	179.60

Survey Tool Program: Date: 11/29/10

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	16,712.93	Plan #1 (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
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Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	Northing (ft)	Easting (ft)
0 00	0 00	0 00	0.00	-3,344.60	0 00	0.00	0 00	0.00	372,306.10	745,935.20
100.00	0.00	0 00	100.00	-3,244.60	0 00	0 00	0 00	0.00	372,306.10	745,935.20
200.00	0 00	0.00	200 00	-3,144.60	0 00	0 00	0 00	0.00	372,306.10	745,935.20
300.00	0.00	0 00	300 00	-3,044.60	0 00	0 00	0 00	0.00	372,306.10	745,935.20
400.00	0.00	0 00	400 00	-2,944.60	0 00	0 00	0 00	0.00	372,306.10	745,935.20
500.00	0.00	0.00	500.00	-2,844.60	0 00	0.00	0 00	0 00	372,306.10	745,935.20
600.00	0 00	0 00	600.00	-2,744.60	0.00	0.00	0.00	0 00	372,306.10	745,935.20
700 00	0.00	0 00	700 00	-2,644.60	0 00	0.00	0 00	0 00	372,306.10	745,935.20
800 00	0 00	0.00	800 00	-2,544.60	0 00	0.00	0.00	0.00	372,306.10	745,935.20
900.00	0 00	0.00	900.00	-2,444.60	0 00	0.00	0 00	0.00	372,306.10	745,935.20
1,000.00	0 00	0 00	1,000 00	-2,344.60	0 00	0.00	0.00	0 00	372,306.10	745,935.20
1,100.00	0.00	0 00	1,100 00	-2,244.60	0.00	0 00	0 00	0 00	372,306.10	745,935.20
1,200 00	0.00	0.00	1,200 00	-2,144.60	0 00	0 00	0 00	0.00	372,306.10	745,935.20
1,300 00	0 00	0 00	1,300 00	-2,044.60	0 00	0 00	0 00	0.00	372,306.10	745,935.20
1,400.00	0 00	0 00	1,400 00	-1,944.60	0.00	0.00	0 00	0.00	372,306.10	745,935.20
1,500.00	0 00	0 00	1,500.00	-1,844.60	0.00	0.00	0 00	0.00	372,306.10	745,935.20
1,600.00	0.00	0 00	1,600 00	-1,744.60	0.00	0.00	0 00	0.00	372,306.10	745,935.20
1,700.00	0.00	0.00	1,700.00	-1,644.60	0.00	0.00	0 00	0.00	372,306.10	745,935.20
1,800.00	0.00	0.00	1,800.00	-1,544.60	0.00	0.00	0 00	0.00	372,306.10	745,935.20
1,900.00	0.00	0.00	1,900.00	-1,444.60	0.00	0 00	0 00	0.00	372,306.10	745,935.20
2,000.00	0.00	0.00	2,000.00	-1,344.60	0.00	0.00	0.00	0 00	372,306.10	745,935.20
2,100.00	0.00	0 00	2,100.00	-1,244.60	0 00	0 00	0 00	0 00	372,306.10	745,935.20
2,200.00	0.00	0.00	2,200.00	-1,144.60	0 00	0 00	0.00	0 00	372,306.10	745,935.20
2,300.00	0.00	0 00	2,300 00	-1,044.60	0.00	0 00	0 00	0 00	372,306.10	745,935.20
2,400 00	0 00	0 00	2,400 00	-944.60	0 00	0 00	0 00	0.00	372,306.10	745,935.20
2,500 00	0 00	0 00	2,500 00	-844.60	0.00	0.00	0 00	0 00	372,306.10	745,935.20
2,600.00	0 00	0.00	2,600.00	-744.60	0 00	0.00	0.00	0 00	372,306.10	745,935.20



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

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Project: Lea County
Site: Fram "26" Federal
Well: #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #2H
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MD Reference: WELL @ 3344.60ft (30' KB Correction Cactus #12
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	Northing (ft)	Easting (ft)
2,700.00	0.00	0.00	2,700.00	-644.60	0.00	0.00	0.00	0.00	372,306.10	745,935.20
2,800.00	0.00	0.00	2,800.00	-544.60	0.00	0.00	0.00	0.00	372,306.10	745,935.20
2,900.00	0.00	0.00	2,900.00	-444.60	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,000.00	0.00	0.00	3,000.00	-344.60	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,100.00	0.00	0.00	3,100.00	-244.60	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,200.00	0.00	0.00	3,200.00	-144.60	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,300.00	0.00	0.00	3,300.00	-44.60	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,400.00	0.00	0.00	3,400.00	55.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,500.00	0.00	0.00	3,500.00	155.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,600.00	0.00	0.00	3,600.00	255.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,700.00	0.00	0.00	3,700.00	355.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,800.00	0.00	0.00	3,800.00	455.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
3,900.00	0.00	0.00	3,900.00	555.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,000.00	0.00	0.00	4,000.00	655.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
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4,200.00	0.00	0.00	4,200.00	855.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,300.00	0.00	0.00	4,300.00	955.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,400.00	0.00	0.00	4,400.00	1,055.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,500.00	0.00	0.00	4,500.00	1,155.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,600.00	0.00	0.00	4,600.00	1,255.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,700.00	0.00	0.00	4,700.00	1,355.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,800.00	0.00	0.00	4,800.00	1,455.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
4,900.00	0.00	0.00	4,900.00	1,555.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,000.00	0.00	0.00	5,000.00	1,655.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,100.00	0.00	0.00	5,100.00	1,755.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,200.00	0.00	0.00	5,200.00	1,855.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,300.00	0.00	0.00	5,300.00	1,955.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20



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5,400.00	0.00	0.00	5,400.00	2,055.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,500.00	0.00	0.00	5,500.00	2,155.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,600.00	0.00	0.00	5,600.00	2,255.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,700.00	0.00	0.00	5,700.00	2,355.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,800.00	0.00	0.00	5,800.00	2,455.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
5,900.00	0.00	0.00	5,900.00	2,555.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,000.00	0.00	0.00	6,000.00	2,655.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,100.00	0.00	0.00	6,100.00	2,755.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,200.00	0.00	0.00	6,200.00	2,855.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,300.00	0.00	0.00	6,300.00	2,955.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,400.00	0.00	0.00	6,400.00	3,055.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,500.00	0.00	0.00	6,500.00	3,155.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,600.00	0.00	0.00	6,600.00	3,255.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,700.00	0.00	0.00	6,700.00	3,355.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,800.00	0.00	0.00	6,800.00	3,455.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
6,900.00	0.00	0.00	6,900.00	3,555.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,000.00	0.00	0.00	7,000.00	3,655.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,100.00	0.00	0.00	7,100.00	3,755.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,200.00	0.00	0.00	7,200.00	3,855.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,300.00	0.00	0.00	7,300.00	3,955.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,400.00	0.00	0.00	7,400.00	4,055.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,500.00	0.00	0.00	7,500.00	4,155.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,600.00	0.00	0.00	7,600.00	4,255.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,700.00	0.00	0.00	7,700.00	4,355.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,800.00	0.00	0.00	7,800.00	4,455.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
7,900.00	0.00	0.00	7,900.00	4,555.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,000.00	0.00	0.00	8,000.00	4,655.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20



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Wellbore: OH
Design: Plan #1

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MD Reference: WELL @ 3344.60ft (30' KB Correction Cactus #12
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,100.00	0.00	0.00	8,100.00	4,755.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,200.00	0.00	0.00	8,200.00	4,855.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,300.00	0.00	0.00	8,300.00	4,955.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,400.00	0.00	0.00	8,400.00	5,055.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,500.00	0.00	0.00	8,500.00	5,155.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,600.00	0.00	0.00	8,600.00	5,255.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,700.00	0.00	0.00	8,700.00	5,355.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,800.00	0.00	0.00	8,800.00	5,455.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
8,900.00	0.00	0.00	8,900.00	5,555.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
9,000.00	0.00	0.00	9,000.00	5,655.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
9,100.00	0.00	0.00	9,100.00	5,755.40	0.00	0.00	0.00	0.00	372,306.10	745,935.20
9,142.50	0.00	0.00	9,142.50	5,797.90	0.00	0.00	0.00	0.00	372,306.10	745,935.20
9,150.00	0.90	179.60	9,150.00	5,805.40	-0.06	0.00	0.06	12.00	372,306.04	745,935.20
9,175.00	3.90	179.60	9,174.97	5,830.37	-1.11	0.01	1.11	12.00	372,304.99	745,935.21
9,200.00	6.90	179.60	9,199.86	5,855.26	-3.46	0.02	3.46	12.00	372,302.64	745,935.22
9,225.00	9.90	179.60	9,224.59	5,879.99	-7.11	0.05	7.11	12.00	372,298.99	745,935.25
9,250.00	12.90	179.60	9,249.09	5,904.49	-12.05	0.08	12.05	12.00	372,294.05	745,935.28
9,275.00	15.90	179.60	9,273.31	5,928.71	-18.27	0.13	18.27	12.00	372,287.83	745,935.33
9,300.00	18.90	179.60	9,297.16	5,952.56	-25.74	0.18	25.74	12.00	372,280.36	745,935.38
9,325.00	21.90	179.60	9,320.59	5,975.99	-34.45	0.24	34.45	12.00	372,271.65	745,935.44
9,350.00	24.90	179.60	9,343.53	5,998.93	-44.38	0.31	44.38	12.00	372,261.72	745,935.51
9,375.00	27.90	179.60	9,365.92	6,021.32	-55.49	0.39	55.49	12.00	372,250.61	745,935.59
9,400.00	30.90	179.60	9,387.70	6,043.10	-67.76	0.47	67.76	12.00	372,238.34	745,935.67
9,425.00	33.90	179.60	9,408.81	6,064.21	-81.16	0.57	81.16	12.00	372,224.94	745,935.77
9,450.00	36.90	179.60	9,429.18	6,084.58	-95.63	0.67	95.64	12.00	372,210.47	745,935.87
9,475.00	39.90	179.60	9,448.77	6,104.17	-111.16	0.78	111.16	12.00	372,194.94	745,935.98
9,500.00	42.90	179.60	9,467.52	6,122.92	-127.69	0.89	127.69	12.00	372,178.41	745,936.09



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Survey Calculation Method: Minimum Curvature
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Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V/Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,525.00	45 90	179 60	9,485 39	6,140 79	-145.18	1.01	145.18	12 00	372,160.92	745,936.21
9,550 00	48 90	179.60	9,502 31	6,157 71	-163 58	1 14	163 58	12 00	372,142 52	745,936 34
9,575.00	51 90	179 60	9,518 24	6,173 64	-182 84	1.28	182.84	12 00	372,123.26	745,936.48
9,600.00	54.90	179.60	9,533.15	6,188 55	-202 90	1.42	202 91	12 00	372,103.20	745,936.62
9,625.00	57.90	179.60	9,546.98	6,202.38	-223.72	1.56	223.73	12.00	372,082.38	745,936 76
9,650.00	60 90	179.60	9,559 71	6,215 11	-245 24	1.71	245 24	12 00	372,060 86	745,936.91
9,675 00	63 90	179.60	9,571 29	6,226 69	-267 39	1.87	267.39	12 00	372,038.71	745,937.07
9,700 00	66.90	179 60	9,581.70	6,237 10	-290 11	2.03	290 12	12 00	372,015.99	745,937 23
9,725.00	69.89	179 60	9,590.90	6,246 30	-313 35	2.19	313 36	12.00	371,992.75	745,937 39
9,750 00	72.89	179 60	9,598 88	6,254 28	-337.04	2 35	337 05	12 00	371,969 06	745,937 55
9,775.00	75.89	179 60	9,605 60	6,261.00	-361 12	2.52	361 13	12 00	371,944 98	745,937 72
9,800 00	78.89	179 60	9,611.06	6,266 46	-385.51	2.69	385 52	12.00	371,920 59	745,937.89
9,825.00	81.89	179 60	9,615 23	6,270.63	-410.16	2 86	410.17	12.00	371,895.94	745,938.06
9,850 00	84.89	179 60	9,618.10	6,273 50	-434 99	3.04	435 00	12.00	371,871.11	745,938 24
9,875.00	87.89	179 60	9,619.68	6,275 08	-459 94	3.21	459 95	12 00	371,846.16	745,938 41
9,892.56	90 00	179.60	9,620.00	6,275 40	-477 49	3 33	477 50	12 00	371,828 61	745,938.53
9,900.00	90 00	179 60	9,620.00	6,275.40	-484 93	3 39	484.94	0 00	371,821.17	745,938 59
10,000.00	90 00	179.60	9,620 00	6,275 40	-584 93	4 08	584.94	0 00	371,721 17	745,939.28
10,100.00	90 00	179 60	9,620.00	6,275 40	-684 93	4 78	684 94	0 00	371,621 17	745,939.98
10,200.00	90 00	179 60	9,620.00	6,275.40	-784.93	5.48	784 94	0.00	371,521 17	745,940.68
10,300 00	90.00	179 60	9,620 00	6,275 40	-884.92	6.18	884 94	0.00	371,421 18	745,941.38
10,400 00	90 00	179 60	9,620.00	6,275 40	-984.92	6.88	984.94	0 00	371,321.18	745,942.08
10,500.00	90.00	179 60	9,620.00	6,275 40	-1,084 92	7.57	1,084 94	0.00	371,221 18	745,942 77
10,600.00	90.00	179 60	9,620.00	6,275.40	-1,184 92	8.27	1,184 94	0 00	371,121 18	745,943 47
10,700.00	90 00	179.60	9,620 00	6,275.40	-1,284.91	8 97	1,284 94	0 00	371,021 19	745,944 17
10,800 00	90.00	179 60	9,620 00	6,275.40	-1,384 91	9 67	1,384.94	0.00	370,921.19	745,944.87
10,900 00	90.00	179.60	9,620.00	6,275 40	-1,484 91	10.37	1,484 94	0.00	370,821 19	745,945 57



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MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	Northing (ft)	Easting (ft)
11,000.00	90.00	179.60	9,620.00	6,275.40	-1,584.91	11.06	1,584.94	0.00	370,721.19	745,946.26
11,100.00	90.00	179.60	9,620.00	6,275.40	-1,684.90	11.76	1,684.94	0.00	370,621.20	745,946.96
11,200.00	90.00	179.60	9,620.00	6,275.40	-1,784.90	12.46	1,784.94	0.00	370,521.20	745,947.66
11,300.00	90.00	179.60	9,620.00	6,275.40	-1,884.90	13.16	1,884.94	0.00	370,421.20	745,948.36
11,400.00	90.00	179.60	9,620.00	6,275.40	-1,984.90	13.86	1,984.94	0.00	370,321.20	745,949.06
11,500.00	90.00	179.60	9,620.00	6,275.40	-2,084.89	14.56	2,084.94	0.00	370,221.21	745,949.76
11,600.00	90.00	179.60	9,620.00	6,275.40	-2,184.89	15.25	2,184.94	0.00	370,121.21	745,950.45
11,700.00	90.00	179.60	9,620.00	6,275.40	-2,284.89	15.95	2,284.94	0.00	370,021.21	745,951.15
11,800.00	90.00	179.60	9,620.00	6,275.40	-2,384.89	16.65	2,384.94	0.00	369,921.21	745,951.85
11,900.00	90.00	179.60	9,620.00	6,275.40	-2,484.88	17.35	2,484.94	0.00	369,821.22	745,952.55
12,000.00	90.00	179.60	9,620.00	6,275.40	-2,584.88	18.05	2,584.94	0.00	369,721.22	745,953.25
12,100.00	90.00	179.60	9,620.00	6,275.40	-2,684.88	18.74	2,684.94	0.00	369,621.22	745,953.94
12,200.00	90.00	179.60	9,620.00	6,275.40	-2,784.88	19.44	2,784.94	0.00	369,521.22	745,954.64
12,300.00	90.00	179.60	9,620.00	6,275.40	-2,884.87	20.14	2,884.94	0.00	369,421.23	745,955.34
12,400.00	90.00	179.60	9,620.00	6,275.40	-2,984.87	20.84	2,984.94	0.00	369,321.23	745,956.04
12,500.00	90.00	179.60	9,620.00	6,275.40	-3,084.87	21.54	3,084.94	0.00	369,221.23	745,956.74
12,600.00	90.00	179.60	9,620.00	6,275.40	-3,184.87	22.23	3,184.94	0.00	369,121.23	745,957.43
12,700.00	90.00	179.60	9,620.00	6,275.40	-3,284.86	22.93	3,284.94	0.00	369,021.24	745,958.13
12,800.00	90.00	179.60	9,620.00	6,275.40	-3,384.86	23.63	3,384.94	0.00	368,921.24	745,958.83
12,900.00	90.00	179.60	9,620.00	6,275.40	-3,484.86	24.33	3,484.94	0.00	368,821.24	745,959.53
13,000.00	90.00	179.60	9,620.00	6,275.40	-3,584.86	25.03	3,584.94	0.00	368,721.24	745,960.23
13,100.00	90.00	179.60	9,620.00	6,275.40	-3,684.85	25.73	3,684.94	0.00	368,621.25	745,960.93
13,200.00	90.00	179.60	9,620.00	6,275.40	-3,784.85	26.42	3,784.94	0.00	368,521.25	745,961.62
13,300.00	90.00	179.60	9,620.00	6,275.40	-3,884.85	27.12	3,884.94	0.00	368,421.25	745,962.32
13,400.00	90.00	179.60	9,620.00	6,275.40	-3,984.85	27.82	3,984.94	0.00	368,321.25	745,963.02
13,500.00	90.00	179.60	9,620.00	6,275.40	-4,084.85	28.52	4,084.94	0.00	368,221.25	745,963.72
13,600.00	90.00	179.60	9,620.00	6,275.40	-4,184.84	29.22	4,184.94	0.00	368,121.26	745,964.42



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13,700.00	90 00	179.60	9,620.00	6,275.40	-4,284.84	29.91	4,284.94	0.00	368,021.26	745,965.11
13,800.00	90 00	179.60	9,620.00	6,275.40	-4,384.84	30.61	4,384.94	0.00	367,921.26	745,965.81
13,900.00	90 00	179.60	9,620.00	6,275.40	-4,484.84	31.31	4,484.94	0.00	367,821.26	745,966.51
14,000.00	90 00	179.60	9,620.00	6,275.40	-4,584.83	32.01	4,584.94	0.00	367,721.27	745,967.21
14,100.00	90.00	179.60	9,620.00	6,275.40	-4,684.83	32.71	4,684.94	0.00	367,621.27	745,967.91
14,200.00	90.00	179.60	9,620.00	6,275.40	-4,784.83	33.40	4,784.94	0.00	367,521.27	745,968.60
14,300.00	90.00	179.60	9,620.00	6,275.40	-4,884.83	34.10	4,884.94	0.00	367,421.27	745,969.30
14,400.00	90.00	179.60	9,620.00	6,275.40	-4,984.82	34.80	4,984.94	0.00	367,321.28	745,970.00
14,500.00	90 00	179.60	9,620.00	6,275.40	-5,084.82	35.50	5,084.94	0.00	367,221.28	745,970.70
14,600.00	90.00	179.60	9,620.00	6,275.40	-5,184.82	36.20	5,184.94	0.00	367,121.28	745,971.40
14,700.00	90.00	179.60	9,620.00	6,275.40	-5,284.82	36.90	5,284.94	0.00	367,021.28	745,972.10
14,800.00	90.00	179.60	9,620.00	6,275.40	-5,384.81	37.59	5,384.94	0.00	366,921.29	745,972.79
14,900.00	90 00	179.60	9,620.00	6,275.40	-5,484.81	38.29	5,484.94	0.00	366,821.29	745,973.49
15,000.00	90.00	179.60	9,620.00	6,275.40	-5,584.81	38.99	5,584.94	0.00	366,721.29	745,974.19
15,100.00	90.00	179.60	9,620.00	6,275.40	-5,684.81	39.69	5,684.94	0.00	366,621.29	745,974.89
15,200.00	90 00	179.60	9,620.00	6,275.40	-5,784.80	40.39	5,784.94	0.00	366,521.30	745,975.59
15,300.00	90 00	179.60	9,620.00	6,275.40	-5,884.80	41.08	5,884.94	0.00	366,421.30	745,976.28
15,400.00	90.00	179.60	9,620.00	6,275.40	-5,984.80	41.78	5,984.94	0.00	366,321.30	745,976.98
15,500.00	90 00	179.60	9,620.00	6,275.40	-6,084.80	42.48	6,084.94	0.00	366,221.30	745,977.68
15,600.00	90 00	179.60	9,620.00	6,275.40	-6,184.79	43.18	6,184.94	0.00	366,121.31	745,978.38
15,700.00	90.00	179.60	9,620.00	6,275.40	-6,284.79	43.88	6,284.94	0.00	366,021.31	745,979.08
15,800.00	90 00	179.60	9,620.00	6,275.40	-6,384.79	44.57	6,384.94	0.00	365,921.31	745,979.77
15,900.00	90.00	179.60	9,620.00	6,275.40	-6,484.79	45.27	6,484.94	0.00	365,821.31	745,980.47
16,000.00	90.00	179.60	9,620.00	6,275.40	-6,584.78	45.97	6,584.94	0.00	365,721.32	745,981.17
16,100.00	90.00	179.60	9,620.00	6,275.40	-6,684.78	46.67	6,684.94	0.00	365,621.32	745,981.87
16,200.00	90 00	179.60	9,620.00	6,275.40	-6,784.78	47.37	6,784.94	0.00	365,521.32	745,982.57
16,300.00	90 00	179.60	9,620.00	6,275.40	-6,884.78	48.07	6,884.94	0.00	365,421.32	745,983.27



Pathfinder Pathfinder X & Y Planning Report



Company: EOG Resources, Inc
Project: Lea County
Site: Fram "26" Federal
Well: #2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #2H
TVD Reference: WELL @ 3344.60ft (30' KB Correction Cactus #12
MD Reference: WELL @ 3344 60ft (30' KB Correction Cactus #12
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
16,400.00	90 00	179 60	9,620 00	6,275 40	-6,984 77	48.76	6,984 94	0.00	365,321 33	745,983.96
16,500 00	90 00	179 60	9,620.00	6,275 40	-7,084.77	49.46	7,084 94	0 00	365,221.33	745,984.66
16,600.00	90.00	179 60	9,620.00	6,275.40	-7,184 77	50.16	7,184 94	0.00	365,121.33	745,985.36
16,700 00	90.00	179 60	9,620 00	6,275 40	-7,284 77	50.86	7,284 94	0.00	365,021.33	745,986.06
16,712.93	90 00	179 60	9,620 00	6,275 40	-7,297 70	50.95	7,297 88	0 00	365,008.40	745,986.15

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(Fram26#2H) - plan hits target center - Point	0.00	0.00	9,620.00	-7,297.70	50.90	365,008.400	745,986 100	32° 0' 3.744 N	103° 32' 23 346 W

Checked By: _____ Approved By: _____ Date: _____



Project: Lea County
Site: Fram "26" Federal
Well: #2H
Wellbore: OH
Plan: Plan #1 (#2H/OH)



Azimuths to Grid North
True North: -0.42°
Magnetic North: 7.19°

PATHFINDER
A Schlumberger Company

West(-)/East(+) (400 ft/in.)

Magnetic Field
Strength: 48585.6snT
Dip Angle: 60.04°
Date: 11/29/2010
Model: IGRF200510

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

WELL DETAILS #2H

Ground Elevation: 3314.60
RKB Elevation: WELL @ 3344.60ft (30' KB Correction Cactus #123)
Rig Name: 30' KB Correction Cactus #123

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	372306.100	745935.200	32° 1' 15.964 N	103° 32' 23.315 W	

SECTION DETAILS

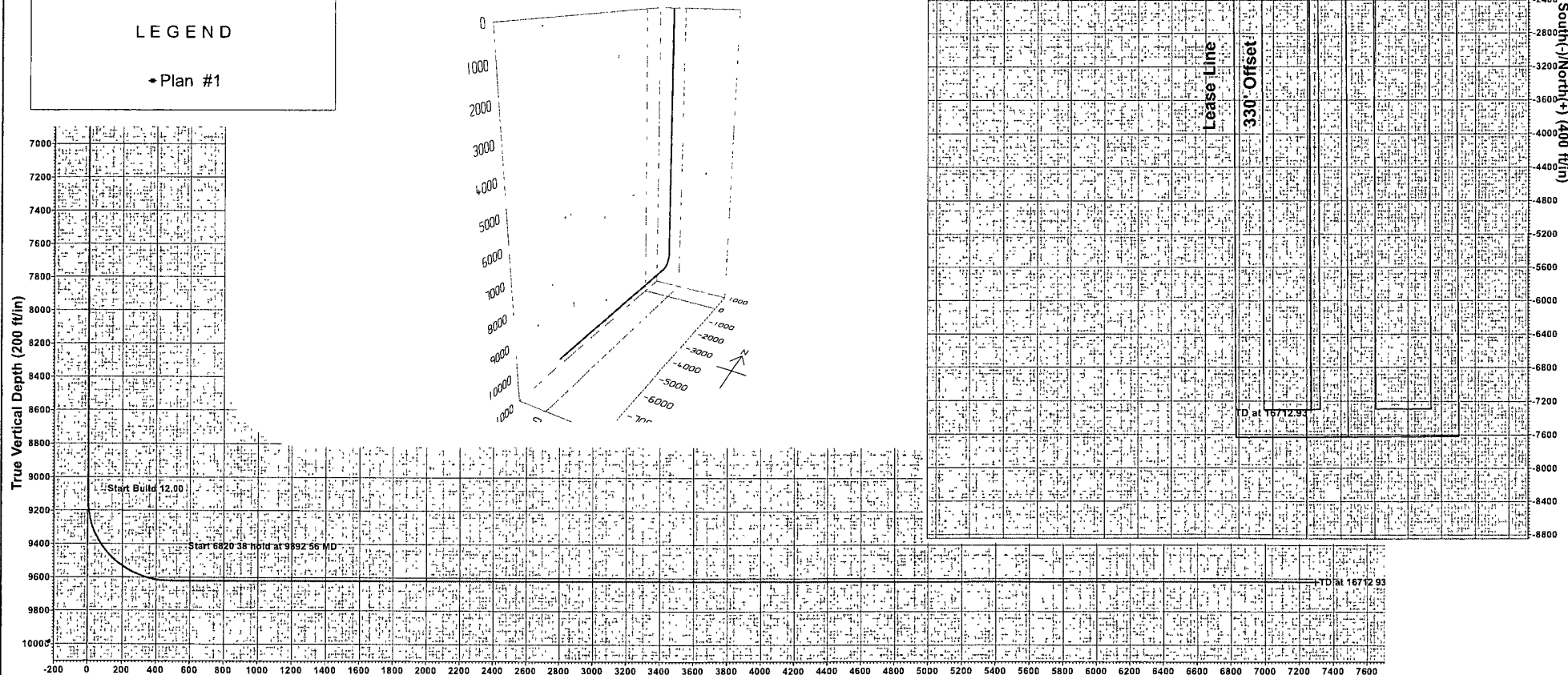
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9142.50	0.00	0.00	9142.50	0.00	0.00	0.00	0.00	0.00	
3	9892.56	90.00	179.60	9620.00	-477.49	3.33	12.00	179.60	477.50	
4	16712.93	90.00	179.60	9620.00	-7297.70	50.95	0.00	0.00	7297.88	PBHL(Fram26#2H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Fram26#2H)	9620.00	-7297.70	50.95	365008.400	745986.100	Point

LEGEND

• Plan #1



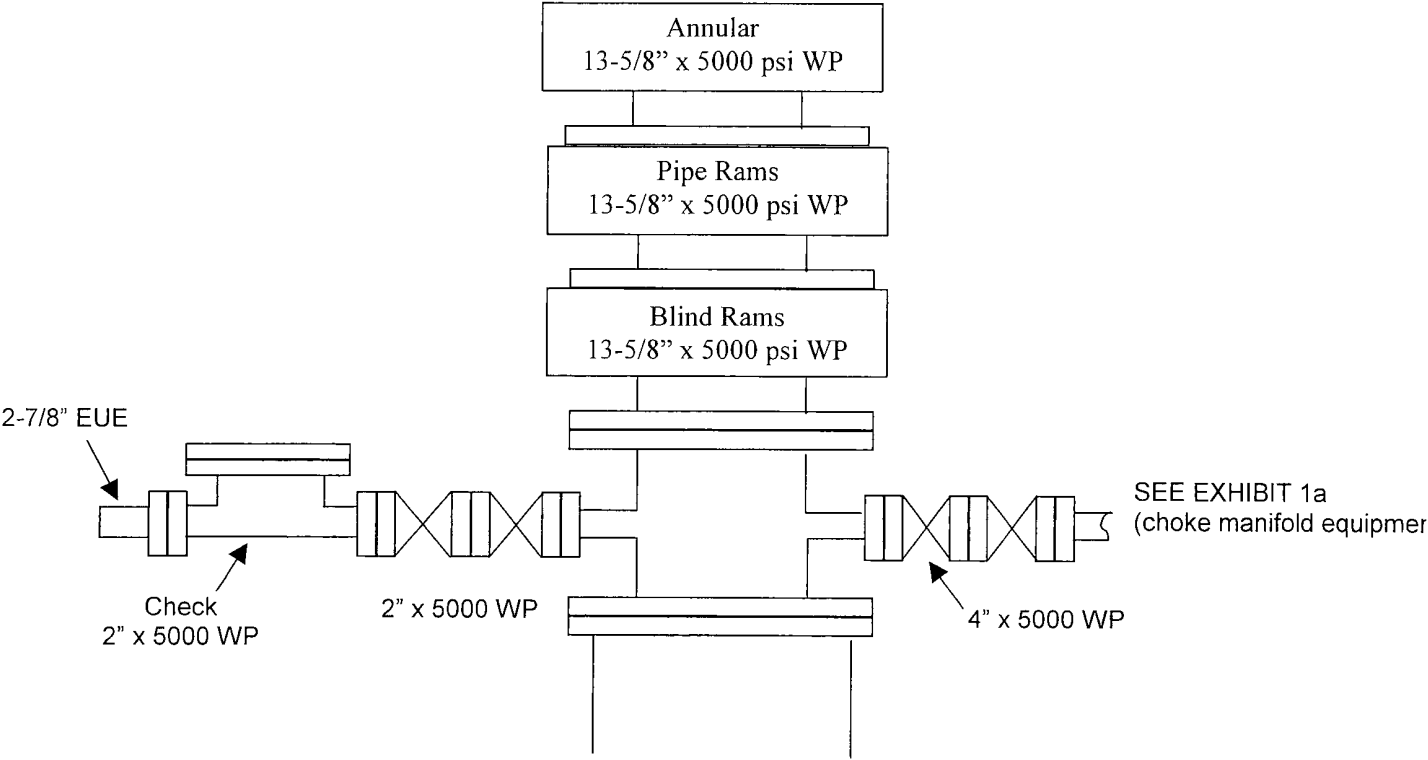
Vertical Section at 179.60° (200 ft/in)

Plan Plan #1 (#2H/OH)

Created By: Nate Bingham Date: 9/05, November 29/2010

EXHIBIT 1

EOG Resources
Fram 26 Federal No. 2H

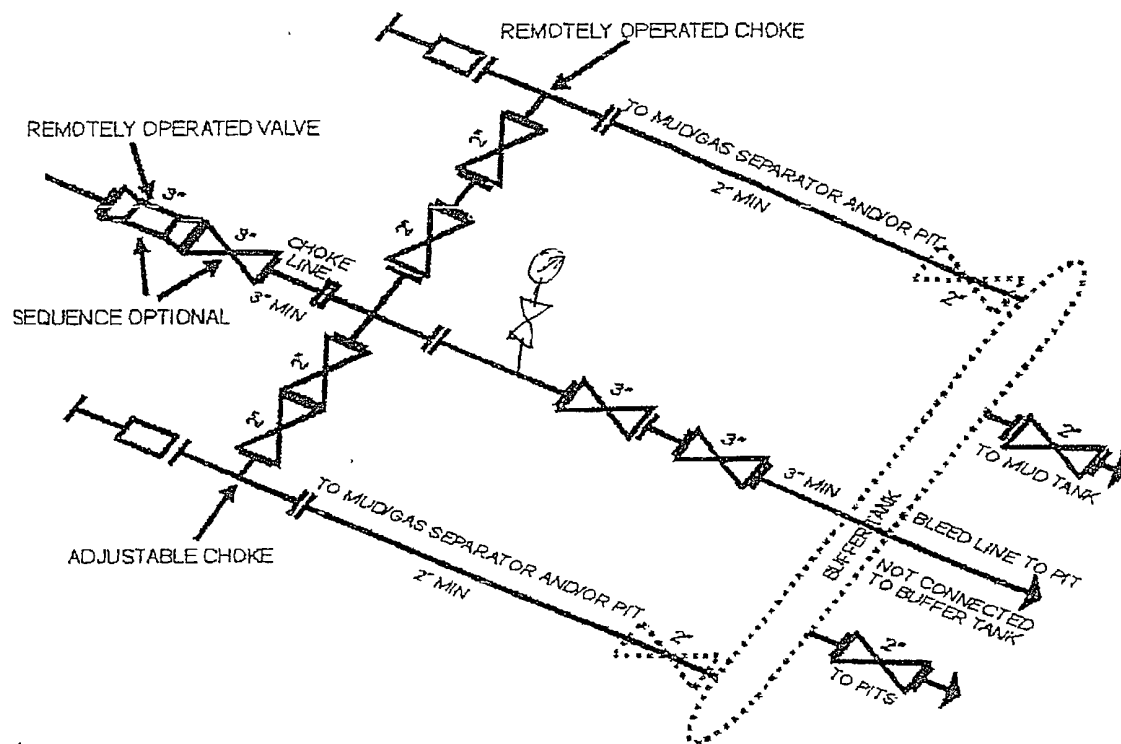


EOG RESOURCES, INC.
FRAM 26 FED 2H

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.

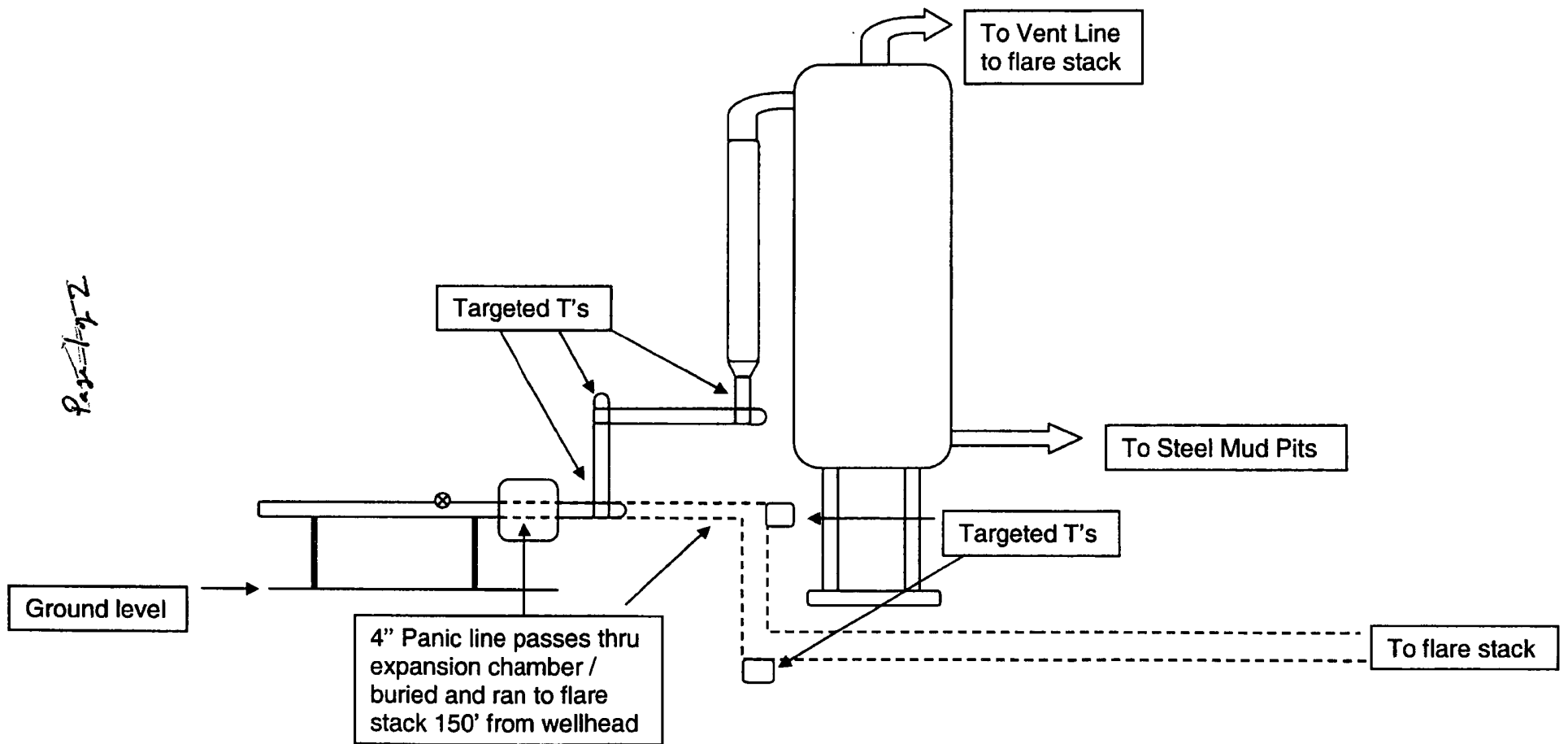


5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

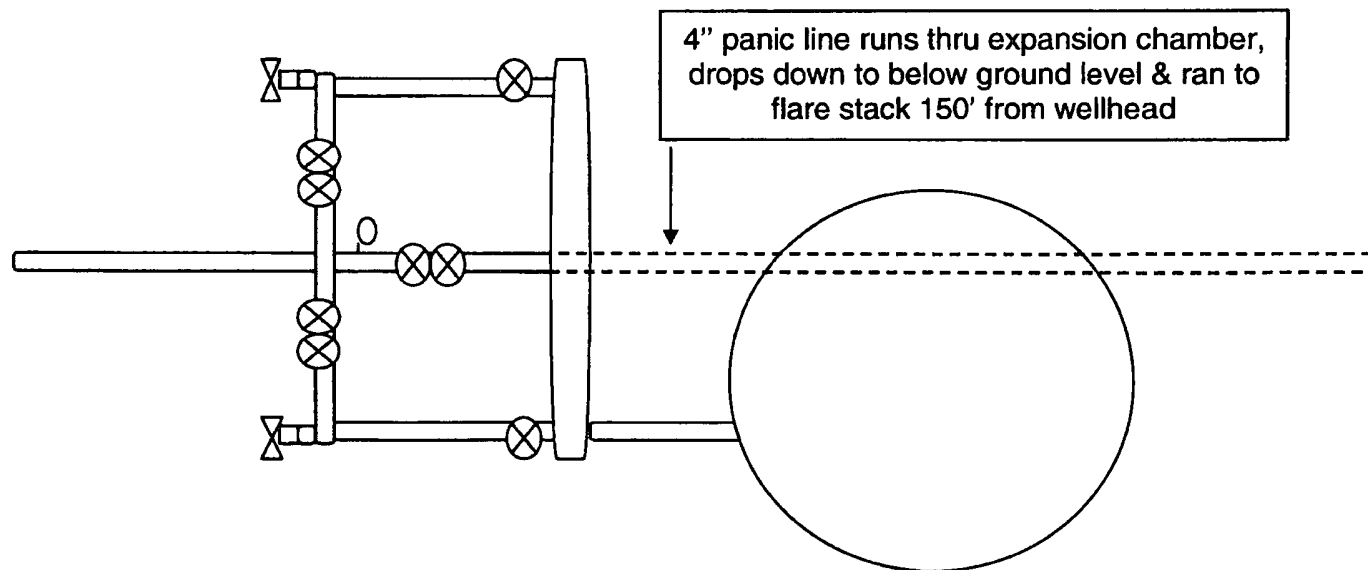
Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept 27, 1989]

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



Per 2-12