

OKLAHOMA CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
P.O. BOX 52000  
OKLAHOMA CITY, OK 73152-2000  
(Rule 165:10-3-1)

API NUMBER: 045 23402

Approval Date: 10/14/2013  
Expiration Date: 04/14/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 18N Rge: 24W County: ELLIS  
SPOT LOCATION:  SW  SW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 250 1130

Lease Name: HOLLOWAY-ATHA Well No: 20-2H Well will be 250 feet from nearest unit or lease boundary.  
Operator Name: EOG RESOURCES INC Telephone: 4052463226; 7136517 OTC/OCC Number: 16231 0

EOG RESOURCES INC  
3817 NW EXPRESSWAY STE 500  
OKLAHOMA CITY, OK 73112-1483

REX BOYD, KATHY, LOUIS P, MYRNA HOLLOWAY  
PO BOX 408  
ARNETT OK 73858

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MARMATON	9250	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 585689 Location Exception Orders: 612475 Increased Density Orders: 612685

Pending CD Numbers:

Special Orders:

Total Depth: 14270 Ground Elevation: 2296 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 560

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 100000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: CLOUD CHIEF

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-24553  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION

This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.  
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

HORIZONTAL HOLE 1

Sec 20 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: W2 SW SE SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1000

Depth of Deviation: 9605

Radius of Turn: 564

Direction: 180

Total Length: 4665

Measured Total Depth: 14270

True Vertical Depth: 9370

End Point Location from Lease,  
Unit, or Property Line: 330

Notes:

Category	Description
DEEP SURFACE CASING	10/10/2013 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
INCREASED DENSITY - 612685	10/11/2013 - G30 - 20-18N-24W X585689 MRMN 1 WELL EOG RESOURCES, INC. 6/12/13
LOCATION EXCEPTION - 612475	10/11/2013 - G30 - (I.O.) 20-18N-24W X585689 MRMN SHL NCT 250 FSL, NCT 1350 FEL 17-18N-24W** POE NCT 330 FNL, NCT 1350 FEL 20-18N-24W BHL NCT 330 FSL, NCT 1000 FEL 20-18N-24W EOG RESOURCES, INC. 6/7/13  **SHL TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER ATTORNEY FOR OPERATOR
SPACING - 585689	10/11/2013 - G30 - (640 HOR) 20-18N-24W EST MRMN, OTHERS POE TO BHL NCT 660' FB (SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

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