

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

API NUMBER: 045 23410

Approval Date: 11/07/2013

Expiration Date: 05/07/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 11 Twp: 18N Rge: 24W

County: ELLIS

SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 250 1300

Lease Name: GROSS

Well No: 11-1H

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

JEFF M., MICHAEL C & BRENDA GROSS  
HC 63, BOX 49  
ARNETT OK 73832

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

	Name	Depth	Name	Depth
1	MARMATON	9200	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201306835  
201306836

Special Orders:

Total Depth: 13790

Ground Elevation: 2421

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 820

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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: OGALLALA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-24811  
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 11 Twp 18N Rge 24W County ELLIS

Spot Location of End Point: E2 NE NW NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1000

Depth of Deviation: 9581

Radius of Turn: 503

Direction: 357

Total Length: 4209

Measured Total Depth: 13790

True Vertical Depth: 9251

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

## Notes:

### Category

### Description

DEEP SURFACE CASING

11/7/2013 - 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

PENDING CD - 201306835

11/7/2013 - G30 - (640 HOR) 11-18N-24W  
EXT 614805 MRMN, OTHERS  
POE TO BHL NCT 660' FB  
(SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)  
REC 11/4/13 (M.PORTER)

PENDING CD - 201306836

11/7/2013 - G30 - 11-18N-24W  
X201306835 MRMN  
1ST PERF NCT 330 FSL, NCT 1300 FWL  
LAST PERF NCT 330 FNL, NCT 1000 FWL  
NO OP. NAMED  
REC 11/4/13 (M.PORTER)

This permit does not address the right of entry or settlement of surface damages.

045 23410 GROSS 11-1H

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.