

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

API NUMBER: 045 23452

Approval Date: 03/26/2014  
Expiration Date: 09/26/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 17N Rge: 24W County: ELLIS  
SPOT LOCATION:  SW  SW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 250 1260

Lease Name: BERRYMAN Well No: 14-2H 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

THOMAS R.C. BERRYMAN  
P.O. BOX 787  
ASHLAND KS 67831

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

Name	Depth	Name	Depth
1 MARMATON	9750	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 579038 Location Exception Orders: 622575 Increased Density Orders: 621717  
Pending CD Numbers: 201400240 Special Orders:

Total Depth: 14423 Ground Elevation: 2303 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 580

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: OGALLALA

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-26718  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 14 Twp 17N Rge 24W County ELLIS

Spot Location of End Point: NW NW NE NE

Feet From: NORTH 1/4 Section Line: 65

Feet From: EAST 1/4 Section Line: 1145

Depth of Deviation: 9034

Radius of Turn: 716

Direction: 2

Total Length: 4264

Measured Total Depth: 14423

True Vertical Depth: 9750

End Point Location from Lease,  
Unit, or Property Line: 65

Notes:

Category	Description
DEEP SURFACE CASING	3/26/2014 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
INCREASED DENSITY - 621717	3/26/2014 - G75 - 14-17N-24W X579038 MRMN 1 WELL EOG RESOURCES, INC. 2-18-2014
LOCATION EXCEPTION - 622575	3/26/2014 - G75 - (I.O.) 14-17N-24W X579038 MRMN FIRST PERF NCT 330 FSL, NCT 1260 FEL LAST PERF NCT 165 FNL, NCT 1145 FEL EOG RESOURCES, INC. 3-12-2014
PENDING CD - 201400240	3/26/2014 - G75 - 14-17N-24W CLARIFY ORDER # 579038 TO EST (640)(HOR) MRMN POE TO BHL NCT 660' FB REC 2-3-2014 (OSBURN)
SPACING - 579038	3/26/2014 - G75 - (640) 14-17N-24W EXT OTHERS EST MRMN

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