

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

API NUMBER: 045 23262 A

Approval Date: 10/16/2012  
Expiration Date: 04/16/2013

Horizontal Hole Oil & Gas

Amend reason: ADD FORMATION; TOTAL DEPTH; BOTTOM HOLE

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 04 Twp: 16N Rge: 24W County: ELLIS  
SPOT LOCATION:  NW  NW  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 250 1160

Lease Name: COLLISON Well No: 4-1H 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

OK DEPT OF WILDLIFE CONSERVATION  
1801 N. LINCOLN BLVD  
OKC OK 73105

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

	Name	Depth	Name	Depth
1	MARMATON	9700	6	
2	MISSISSIPPI OSAGE	14100	7	
3			8	
4			9	
5			10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201205523  
201205524

Special Orders:

Total Depth: 14383 Ground Elevation: 2184 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 430

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: 12-21671  
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 04 Twp 16N 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: 1300

Depth of Deviation: 10077

Radius of Turn: 437

Direction: 185

Total Length: 4306

Measured Total Depth: 14383

True Vertical Depth: 14100

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

Notes:

Category	Description
DEEP SURFACE CASING	10/16/2012 - 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 - 201205523	11/20/2012 - G30 - (640 HOR) 4-16N-24W X599586 MRMN, OTHERS REC 11/15/12 (LEAVITT)
PENDING CD - 201205524	11/20/2012 - G30 - 4-16N-24W X201205523 MRMN SL NCT 250 FNL, NCT 1160 FEL POE NCT 330 FNL, NCT 1160 FEL BHL NCT 250 FSL, NCT 1300 FEL NO OP. NAMED REC 11/15/12 (LEAVITT)
SPACING	10/16/2012 - G30 - FORMATION UNSPACED, 640 ACRES

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