

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

API NUMBER: 129 24041 A

Approval Date: 01/07/2015  
Expiration Date: 07/07/2015

Horizontal Hole Oil & Gas

Amend reason: AMEND TO HORIZONTAL WELL, FORMATION,  
WELL NUMBER, AND TD

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 17N Rge: 25W County: ROGER MILLS  
SPOT LOCATION:  NE  SW  SE  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 350 800

Lease Name: BACHMANN 28-17-25 Well No: 3H Well will be 350 feet from nearest unit or lease boundary.

Operator Name: APACHE CORPORATION Telephone: 9184914900; 9184914 OTC/OCC Number: 6778 0

APACHE CORPORATION  
6120 S YALE AVE STE 1500  
TULSA, OK 74136-4224

ROBERTA BACHMANN  
414 SPURLIN DRIVE  
SAYRE OK 73662

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

Name	Depth	Name	Depth
1 ATOKA	11885	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 134743 Location Exception Orders: 636420 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 16500 Ground Elevation: 2304 Surface Casing: 470 Depth to base of Treatable Water-Bearing FM: 420

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

PIT 1 INFORMATION

Type of Pit System: ON SITE  
Type of Mud System: WATER BASED

Chlorides Max: 8000 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: 1B

Liner required for Category: 1B

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-29363

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 200000
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: 3
Liner required for Category: 3
Pit Location is BED AQUIFER
Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 28 Twp 17N Rge 25W County ROGER MILLS
Spot Location of End Point: NE NW NE NE
Feet From: NORTH 1/4 Section Line: 300
Feet From: EAST 1/4 Section Line: 800
Depth of Deviation: 10977
Radius of Turn: 573
Direction: 360
Total Length: 4623
Measured Total Depth: 16500
True Vertical Depth: 11916
End Point Location from Lease,
Unit, or Property Line: 300

Notes:

Table with 2 columns: Category, Description. Rows include FRAC FOCUS, LOCATION EXCEPTION - 636420, MEMO, and SPACING - 134743.

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