

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

API NUMBER: 129 23958

Approval Date: 05/27/2014

Expiration Date: 11/27/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 16N Rge: 22W

County: ROGER MILLS

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 250 790

Lease Name: CURRIER

Well No: 2-18H

Well will be 250 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

UNITED STATES DEPARTMENT OF THE INTERIOR  
7906 EAST 33RD STREET, SUITE 101  
BUREAU OF LAND MANAGEMENT/OK FIELD OFFICE  
TULSA OK 74145-

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

Name	Depth	Name	Depth
1 TONKAWA	8272	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 579421

Location Exception Orders: 624652

Increased Density Orders:

Pending CD Numbers: 201402663

Special Orders:

Total Depth: 13500

Ground Elevation: 1958

**Surface Casing: 510**

Depth to base of Treatable Water-Bearing FM: 460

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 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: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-27180

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: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

## HORIZONTAL HOLE 1

Sec 18 Twp 16N Rge 22W County ROGER MILLS

Spot Location of End Point: NW NW NE NW

Feet From: NORTH 1/4 Section Line: 300

Feet From: WEST 1/4 Section Line: 1412

Depth of Deviation: 8600

Radius of Turn: 573

Direction: 20

Total Length: 4836

Measured Total Depth: 13500

True Vertical Depth: 8272

End Point Location from Lease,  
Unit, or Property Line: 300

### Notes:

#### Category

#### Description

LOCATION EXCEPTION - 610809

5/27/2014 - G72 - 18-16N-22W (I.O.)  
X 597421 TNKW;  
SHL NCT 200 FSL NCT 200 FWL;  
COMP INT. NCT 300 FSL NCT 300 FNL NCT 560 FWL;  
APACHE CORPORATION;  
4/25/2013

LOCATION EXCEPTION - 624652

5/27/2014 - G72 - 18-16N-22W  
EXT 610809 FROM 4/25/2014 TO 4/25/2015;

MEMO

5/20/2014 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - CANADIAN RIVER),  
PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201402663

5/27/2014 - G72 - 18-16N-22W  
X 579421 TNKW;  
1 WELL;  
NO OPER NAMED;  
REC 5/6/2014 (MCKEOWN)

SPACING - 572053

5/23/2014 - G72 - (640 HOR) 18-16N-22W  
EST TNKW;  
EXIST CONCURRENTLY WITH PRODUCING NON-HORIZONTAL DRILLING AND SPACING UNITS,  
SUPERSEDE EXISTING NON-DEVELOPED NON-HORIZONTAL DRILLING AND SPACING UNITS.

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

129 23958 CURRIER 2-18H

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Office of the Conservation Division as to when Surface Casing will be run.