

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

API NUMBER: 129 23889

Approval Date: 11/07/2013
Expiration Date: 05/07/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 16N Rge: 22W County: ROGER MILLS
SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 200 2350

Lease Name: CURRIER Well No: 3-18H Well will be 200 feet from nearest unit or lease boundary.
Operator Name: APACHE CORPORATION Telephone: 9184914900 OTC/OCC Number: 6778 0

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

MARGARET J CURRIER REVOCABLE TRUST
P O BOX 175
LEEDEY OK 73654

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

Name	Depth	Name	Depth
1 TONKAWA	8500	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 579421 Location Exception Orders: 615364 Increased Density Orders: 610864

Pending CD Numbers: Special Orders:

Total Depth: 13180 Ground Elevation: 1954 **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

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

PERMIT NO: 13-24321

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: NE NW NW NE

Feet From: NORTH 1/4 Section Line: 300

Feet From: EAST 1/4 Section Line: 2300

Depth of Deviation: 7703

Radius of Turn: 573

Direction: 20

Total Length: 4836

Measured Total Depth: 13180

True Vertical Depth: 8937

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

Additional Surface Owner	Address	City, State, Zip
MARGARET J CURRIER REVOCABL	P O BOX 175	LEEDEY, OK 73654

Notes:

Category	Description
INCREASED DENSITY - 610864	11/7/2013 - G30 - 18-16N-22W X579421 TNKW 1 WELL APACHE CORPORATION 4/26/13
LOCATION EXCEPTION - 615364	11/7/2013 - G30 - (I.O.) 18-16N-22W X579421 TNKW SHL NCT 200 FNL, NCT 2350 FEL 19-16N-22W 1ST PERF NCT 300 FSL, NCT 1980 FEL 18-16N-22W LAST PERF NCT 300 FNL, NCT 1980 FEL 18-16N-22W APACHE CORPORATION 8/30/13
MEMO	11/6/2013 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 579421	11/7/2013 - G30 - (640 HOR) 18-16N-22W EST TNKW POE TO BHL NCT 660' FB (COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS; SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

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