

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

API NUMBER: 129 24003

Approval Date: 09/17/2014

Expiration Date: 03/17/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 16N Rge: 24W

County: ROGER MILLS

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 289 1445

Lease Name: AVRIETT

Well No: 34-16-24 4H

Well will be 289 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

GILES CUMMINGS AVRIETT  
3602 WOODVIEW ROAD  
WOODWARD OK 73801

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

	Name	Depth	Name	Depth
1	TONKAWA	8586	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 607526

Location Exception Orders: 629531

Increased Density Orders:

Pending CD Numbers: 201404290

Special Orders:

Total Depth: 13500

Ground Elevation: 2302

**Surface Casing: 780**

Depth to base of Treatable Water-Bearing FM: 580

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: 14-28249

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 34 Twp 16N Rge 24W County ROGER MILLS

Spot Location of End Point: C N2 NW NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1980

Depth of Deviation: 8086

Radius of Turn: 573

Direction: 354

Total Length: 4514

Measured Total Depth: 13500

True Vertical Depth: 8659

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

Notes:

Category

Description

LOCATION EXCEPTION - 629531

9/17/2014 - G91 - (I.O.) 34-16N-24W  
X 607526 TNKW  
SHL NCT 289 FSL, NCT 1445 FEL  
COMP INT. NCT 300 FSL, NCT 300 FNL, NCT 1320 FEL  
APACHE CORPORATION  
8-21-2014

MEMO

9/17/2014 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM  
RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201404290

9/17/2014 - G91 - 34-16N-24W  
X 607526 TNKW  
2 WELLS  
NO OP. NAMED  
REC. 7-15-2014 (JOHNSON)

SPACING - 607526

9/17/2014 - G91 - (640)(HOR) 34-16N-24W  
VAC 203364 TNKW  
EST TNKW  
POE BHL NCT 660' FB

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

129 24003 AVRIETT 34-16-24 4H