

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

API NUMBER: 129 24007

Approval Date: 09/22/2014
Expiration Date: 03/22/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 17N Rge: 25W

County: ROGER MILLS

SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 150 900

Lease Name: TWO D RANCH 25-17-25

Well No: 2H

Well will be 150 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

TWO D RANCH, LLC C/O STEVE DOBSON
13900 N. PORTLAND AVE.
OKLAHOMA CITY OK 73134

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

Name	Depth	Name	Depth
1 TONKAWA	8055	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 560038

Location Exception Orders:

Increased Density Orders: 627457

Pending CD Numbers: 201403625

Special Orders:

Total Depth: 13500

Ground Elevation: 2165

Surface Casing: 2000

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: 90000 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

D. One time land application -- (REQUIRES PERMIT)
H. SEE MEMO

PERMIT NO: 14-28377

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 BED AQUIFER

Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 25 Twp 17N Rge 25W County ROGER MILLS

Spot Location of End Point: E2 NE NW NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1000

Depth of Deviation: 7555

Radius of Turn: 700

Direction: 2

Total Length: 4845

Measured Total Depth: 13500

True Vertical Depth: 8255

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

Notes:

Category

Description

DEEP SURFACE CASING

9/22/2014 - G76 - 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

INCREASED DENSITY - 627457

9/22/2014 - G91 - 25-17N-25W
X 560038 TNKW
1 WELL
APACHE CORPORATION
7-3-2014

MEMO

9/22/2014 - G76 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201403625

9/22/2014 - G91 -
X 560038 TNKW
SHL NCT 150 FNL, NCT 900 FWL 36-17N-25W
1ST PERF NCT 300 FSL, NCT 660 FWL 25-17N-25W
LAST PERF NCT 300 FNL, NCT 660 FWL 25-17N-25W
NO OP. NAMED
REC. 6-10-2014 (MCKEOWN)

SPACING - 560038

9/22/2014 - G91 - (640)(HOR) 25-17N-25W
EST TNKW
POE TO BHL NCT 660' FB
(COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS; SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

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

129 24007 TWO D RANCH 25-17-25 2H

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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.

Roger Mills County, Oklahoma.

BHL 330' FNL - 1000' FWL, Section 25, T 17 N, R 25 W.1.M.

X:1459299
Y:342599

X:1459265
Y:339962

X:1459232
Y:337324

X:1464598
Y:342534

X:1461948
Y:342567

X:1464579
Y:339870

X:1464580
Y:337205

0' 1000' 2000' 3000'

Legend

- Section Line
- 1/4 Section Line
- OHE Overhead Electric Line
- Fence Line
- PP Power Pole

ELEVATION:
2165' Gr. at stake

BOTTOM HOLE INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.
CORNER COORDINATES ARE TAKEN FROM POINTS SURVEYED IN THE FIELD.

OPERATOR: Apache Corporation **WELL NO.:** 2H

LEASE NAME: Two D Ranch 25-17-25

TOPOGRAPHY & VEGETATION: Level to slope grass pasture.

GOOD DRILL SITE: Yes **REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET:** None

BEST ACCESSIBILITY TO LOCATION: From the West

DISTANCE & DIRECTION
FROM HWY JCT OR TOWN: Beginning at the Intersection of Hwy 33 and CR N1780 Rd, North on CR N1780 E.1 ml. to a lease road bearing East, East on said lease road 1000 feet, then South 150 feet to location stake.

REVISION: _____ **DATE OF DRAWING:** February 11, 2014

INVOICE #: 18579 **DATE STAKED:** January 27, 2014

STAKED SURFACE HOLE We do hereby certify that this survey was done in accordance to records, maps and other information as provided to us by the client herein named and that great care was taken in the actual staking of this well and the determination of any obstacles thereupon. However, the accuracy of this survey is not guaranteed and if there appears to be any discrepancy, please notify us immediately.

DATUM: Nad 27

N: 35°54'44.303"

W: 99°49'23.416"

LAT: 36.91231°

LONG: -99.82317°

STATE PLANE COORDINATES: (US FEET)

ZONE: OK North

X: 1460131

Y: 337155

REGISTERED LAND SURVEYOR

ROGER D. JIVIDEN

L.S. 1083

02-11-14

R. Jividen

Survey is valid only if print has original seal and signature of surveyor present

JIVIDEN LAND SURVEY CO., INC.

1210 19TH STREET / P.O. BOX 943

WOODWARD, OKLAHOMA 73802

Phone 580-256-7174 Fax 580-256-3424

roger@jividenlandsurvey.com mike@jividenlandsurvey.com

Survey For:

Apache Corporation

6120 South Yale Avenue, Ste. 1500

Tulsa, Oklahoma 74136

JOB 071-14 **DATE OF PLAT** 02-11-2014 **SCALE** 1"=1000' **SHEET** 1 OF 4

DRAWN BY D.W.K. **OKLA. CA #2064, EXP. 06/30/2015**

KANSAS CA #143, EXP. 12/31/2014