

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

API NUMBER: 129 24015

Approval Date: 10/15/2014

Expiration Date: 04/15/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 15N Rge: 24W

County: ROGER MILLS

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 275 1500

Lease Name: TANNER 22-15-24

Well No: 1H

Well will be 275 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

BECKY & TANNER DAUGHERTY BY EDDIE WILSON,
POWER OF ATTY.
8659 N. 1810 RD.
CRAWFORD OK 73638

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

Name	Depth	Name	Depth
1 DES MOINES GRANITE WASH	11607	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 589837

Location Exception Orders: 631758

Increased Density Orders:

Pending CD Numbers: 201407059

Special Orders:

Total Depth: 16500

Ground Elevation: 2264

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 630

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: 14-28600

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 22 Twp 15N Rge 24W County ROGER MILLS

Spot Location of End Point: N2 N2 NE NW

Feet From: NORTH 1/4 Section Line: 250

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 11135

Radius of Turn: 384

Direction: 6

Total Length: 4761

Measured Total Depth: 16500

True Vertical Depth: 11607

End Point Location from Lease,
Unit, or Property Line: 250

Notes:

Category

Description

DEEP SURFACE CASING

10/15/2014 - 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

LOCATION EXCEPTION - 631758

10/15/2014 - G91 - (E.O.) 22-15N-24W
X 589837 DMSGW
SHL 275 FSL, NCT 1500 FWL
1ST PERF. NCT 300 FSL, NCT 660 FWL
LAST PERF. NCT 300 FSL, NCT 660 FWL
APACHE CORPORATION
10-13-2014

MEMO

10/15/2014 - G76 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201407059

10/15/2014 - G91 - 22-15N-24W
X 589837 DMSGW
1 WELL
NO OP. NAMED
HRG 10-21-2014 (JOHNSON)

SPACING - 589837

10/15/2014 - G91 - 22-15N-24W
EST DMSGW, OTHER
POE TO BHL NCT 660' FB

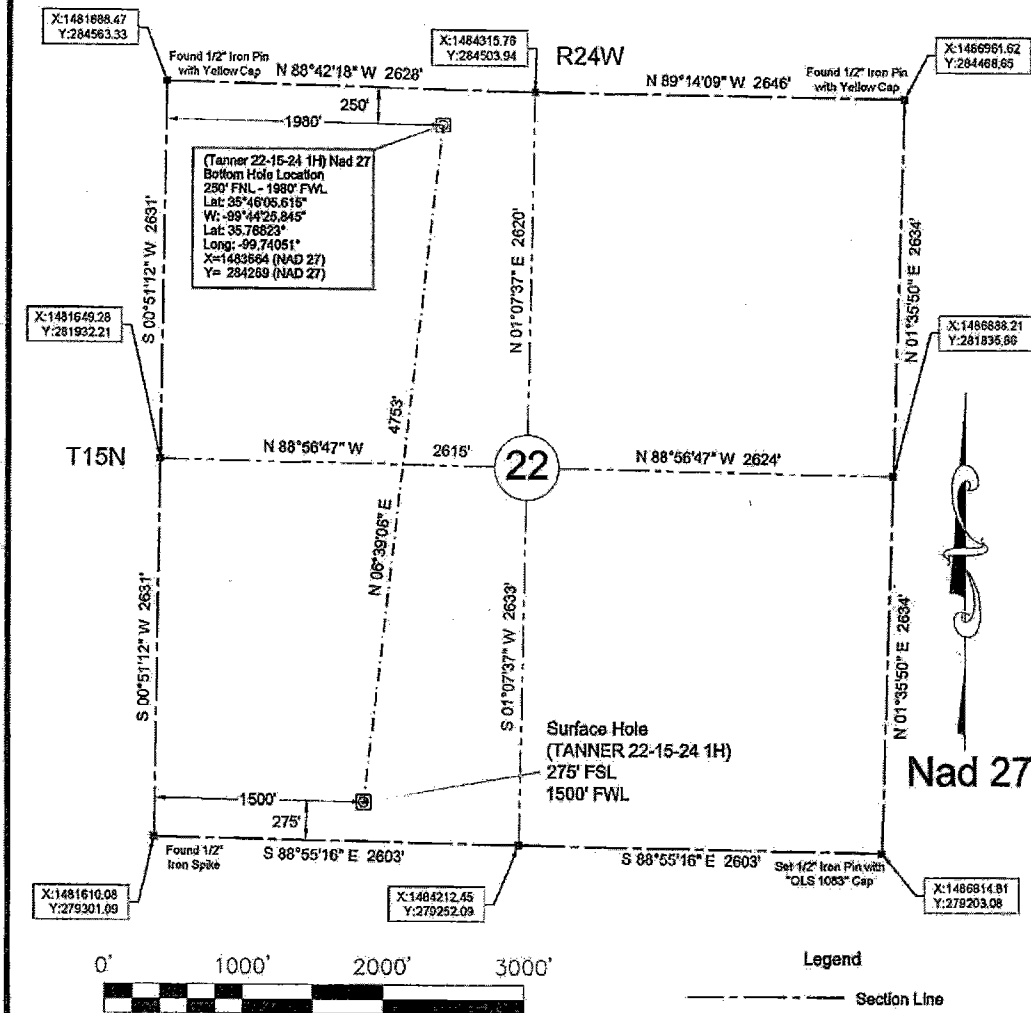
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129 24015 TANNER 22-15-24 1H

Roger Mills County, Oklahoma.
BHL 250' FNL - 1980' FWL, Section 22, T 15 N, R 24 W.I.M.



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

OPERATOR: Apache Corporation

WELL NO.: 1H

ELEVATION:
2264' GR. AT STAKE

LEASE NAME: Tanner 22-15-24

BEST ACCESSIBILITY TO LOCATION: FROM THE WEST

DISTANCE & DIRECTION

FROM HWY JCT OR TOWN: Starting at the intersection of Hwy 47 and CR E0880 Rd, go West on CR E0880 Rd A DISTANCE OF 2.0 mi. to CR N1820 Rd, go North on CR N1820 Rd a distance of 1.0 mi., go east 1500 feet to the location stake.

REVISION:

INVOICE #: 19072

DATE OF DRAWING: September 25, 2014

DATE STAKED: September 23, 2014

STAKED SURFACE HOLE

DATUM:Nad 27

LAT: 35°45'18.833"

LONG: -99°44'31.49

LAT: 35.75523°
LONG: 99.7430°

STATE PLANE

COORDINATES: (US FEET)

ZONE: OK North
Y: 448244

X: 1483114
Y: 279548

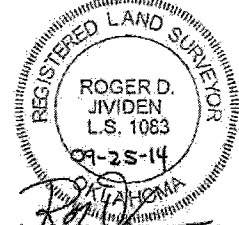
213340



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.



Buried utilities are not necessarily shown. It is the contractor's responsibility to locate and preserve all utility services.



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

**JVIDENS LAND SURVEY CO., INC.**

1210 19TH STREET / P.O. BOX 943

WOODWARD, OKLAHOMA 73802

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

roger@ivdenslandsurvey.com mike@ivdenslandsurvey.com

Survey For:
Apache Corporation
8120 South Yale Avenue, Ste. 1500
Tulsa, Oklahoma 74136

JOB	DATE OF PLAT	SCALE	SHEET
562-14	09-25-2014	1"=1000'	1 OF 3

DRAWN BY: OKLA. CA #2064, EXP. 08/30/2015
D.W.J. KANSAS CA #143, EXP. 12/31/2014