

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

API NUMBER: 129 24019

Approval Date: 10/21/2014

Expiration Date: 04/21/2015

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 14N Rge: 24W

County: ROGER MILLS

SPOT LOCATION: ☐ NE ☐ NE ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 250 2330

Lease Name: TONY 20-14-24

Well No: 1H

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

W & S TURLEY LTD
8468 N. 1750 RD.
DURHAM OK 73642

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

Name	Depth	Name	Depth
1 MARMATON	10447	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 128051

Location Exception Orders: 631693

Increased Density Orders: 624431

Pending CD Numbers:

Special Orders:

Total Depth: 15800

Ground Elevation: 2017

Surface Casing: 1500

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)

PERMIT NO: 14-28433

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 20 Twp 14N Rge 24W County ROGER MILLS

Spot Location of End Point: W2 SW SE SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1500

Depth of Deviation: 9947

Radius of Turn: 747

Direction: 191

Total Length: 4680

Measured Total Depth: 15800

True Vertical Depth: 11225

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

Notes:

Category

Description

DEEP SURFACE CASING

10/21/2014 - G71 - 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 - 624431

10/21/2014 - G91 - 20-14N-24W
X 128051 MRMN
1 WELL
APACHE CORPORATION
4-24-2014

LOCATION EXCEPTION - 631693

10/21/2014 - G91 - (E.O.) 20-14N-24W
X 128051 MRMN
SHL 250 FNL, 2330 FWL
1ST PERF NCT 300 FNL, NCT 1320 FWL
LAST PERF NCT 300 FSL, NCT 1320 FWL
APACHE CORPORATION
10-9-2014

MEMO

10/21/2014 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 128051

10/21/2014 - G91 - (640) 20-14N-24W
VAC OTHER
AMD OTHER
EXT 125353 MRMN, OTHERS

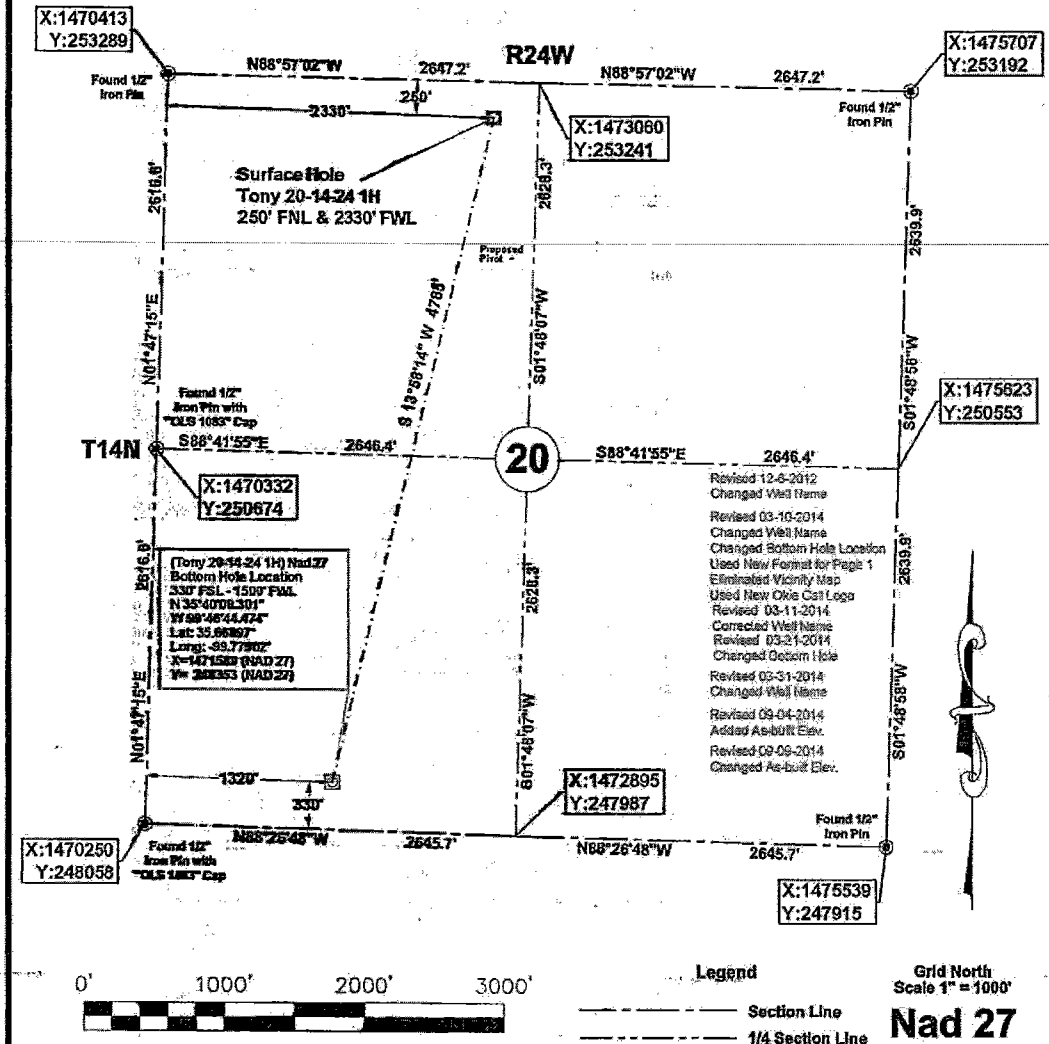
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129 24019 TONY 20-14-24 1H

Roger Mills County, Oklahoma.
BHL 330' FSL - 1500' FWL, Section 20, T 14 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

LEASE NAME: Tony 20-14-24

BEST ACCESSIBILITY TO LOCATION: From the West
DISTANCE & DIRECTION

FROM HWY. JCT. OR TOWN: From Cheyenne, Oklahoma, West on said Hwy 47 4.1 mi., North on Co. Rd. N1829 4.3 mi., continue onto Co. Rd. E0930 West 0.9 mi., North on Lease Rd. 1.0 mi., East cross country 2400 feet to location stake

REVISION: September 9, 2014
INVOICE #: 17650

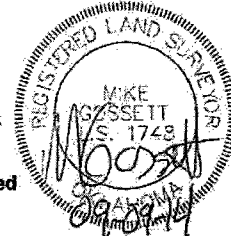
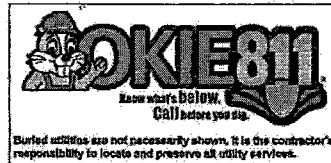
DATE OF DRAWING: December 5, 2012
DATE STAKED: November 29, 2012

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°40'54.426"
W: 99°46'31.505"
LAT: 35.68178°
LONG: -99.77542°
STATE PLANE
COORDINATES: (US FEET)
ZONE: OK North
X: 1472735
Y: 252996

AS-BUILT ELEVATION:
2017' Gr. at stake



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
reg@jvidenslandsurvey.com mike@jvidenslandsurvey.com

Survey For:
Apache Corporation
6120 South Yale Avenue, Ste. 1500
Tulsa, Oklahoma 74136

JOB 714-12	DATE OF PLAT 12-05-2012	SCALE 1"=1000'	SHEET 1 OF 3
DRAWN BY R.D.J.		OKLA. CA #2004, EXP. 05/30/2013 KANSAS CA #143, EXP. 12/31/2012	