

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

API NUMBER: 129 23908

Approval Date: 01/16/2014
Expiration Date: 07/16/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 21 Twp: 16N Rge: 22W County: ROGER MILLS
SPOT LOCATION: SW SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 300 300

Lease Name: GREEN 21-16-22 Well No: 1H Well will be 300 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

ROBERT C. GREEN, JR.
19362 EAST 810 ROAD
LEEDEY OK 73654

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

Name	Depth	Name	Depth
1 TONKAWA	8539	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 61659 Location Exception Orders: 618695 Increased Density Orders: 618694

Pending CD Numbers: Special Orders:

Total Depth: 13500 Ground Elevation: 2217 Surface Casing: 700 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: 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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: 14-26126

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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 21 Twp 16N Rge 22W County ROGER MILLS
Spot Location of End Point: N2 N2 NW NW
Feet From: NORTH 1/4 Section Line: 200
Feet From: WEST 1/4 Section Line: 660
Depth of Deviation: 7796
Radius of Turn: 573
Direction: 5
Total Length: 4804
Measured Total Depth: 13500
True Vertical Depth: 8599
End Point Location from Lease,
Unit, or Property Line: 200

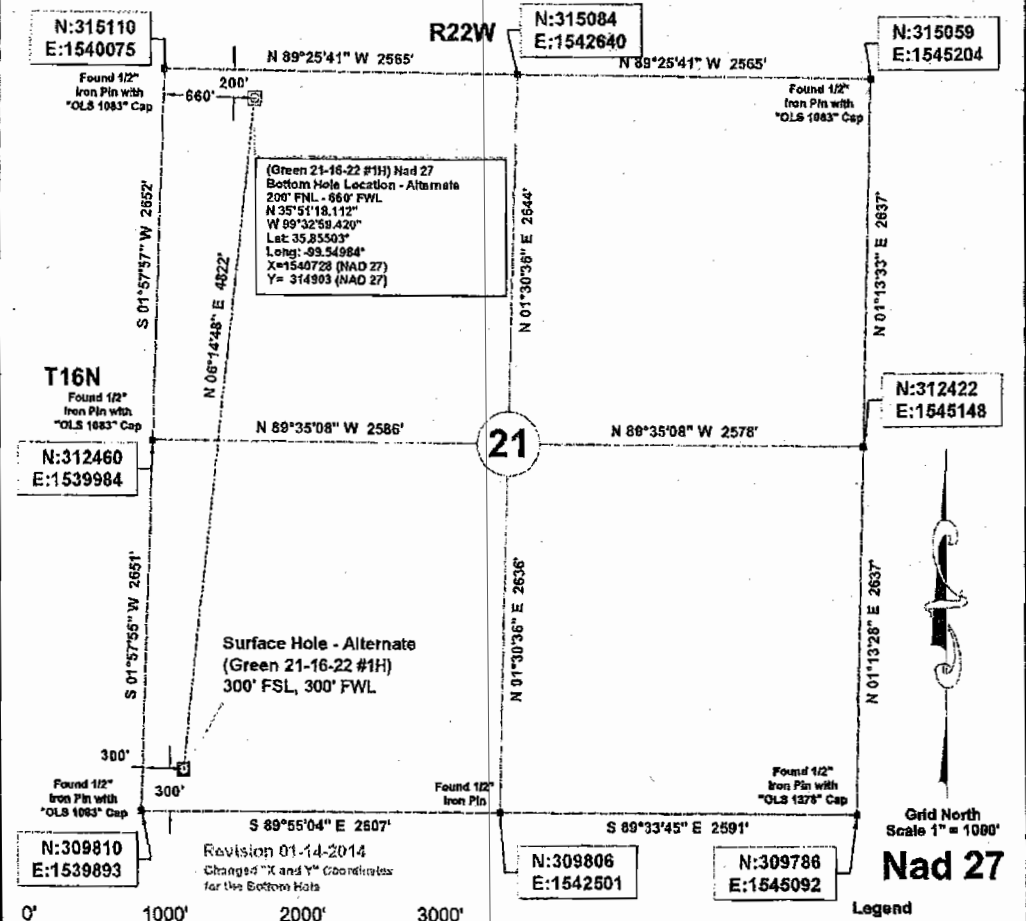
Notes:

Table with 2 columns: Category and Description. Contains notes about INCREASED DENSITY, LOCATION EXCEPTION, MEMO, and SPACING.

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API 129-23908

Roger Mills County, Oklahoma.
 BHL 200' FNL - 660' FWL, Section 21, T 16 N, R 22 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: Green 21-16-22

WELL NO.: 1H
 ELEVATION: 2217' Gr. at stake

TOPOGRAPHY & VEGETATION: Level to slope grass pasture.

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

BEST ACCESSIBILITY TO LOCATION: From South
 DISTANCE & DIRECTION: FROM HWY JCT OR TOWN: Beginning at the Intersection of Hwy 283 & Hwy 33, east on OK-47 E toward N1850 Rd 10.7 mi. to CR N1940 Rd, north on said CR N1940 Rd 1.7 mi. to CR ED810 Rd, west on said ED810 Rd 1.0 mi. to lease road bearing north, 1.2 mi. to location stake.

REVISION: INVOICE #: 18229
 DATE OF DRAWING: SEPTEMBER 9, 2013
 DATE STAKED: SEPTEMBER 3, 2013

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° 50' 30.824"
 W: 99° 33' 04.863"
 LAT: 35.84184°
 LONG: -99.55135°
 STATE PLANE
 COORDINATES: (US FEET)
 ZONE: OK North
 X: 1640204
 Y: 310110

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

<p>JVIDENS LAND SURVEY CO., INC. 1210 19TH STREET / P.O. BOX 943 WOODWARD, OKLAHOMA 73802 Phone 580-256-7174 - Fax 580-256-3424 roger@jvidenslandsurvey.com mls@jvidenslandsurvey.com</p>	Survey For: Apache Corporation 6120 South Yale Avenue, Ste. 1500 Tulsa, Oklahoma 74136	JOB 511-13 Alternate	DATE OF PLAT 09-12-2013	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			