

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

API NUMBER: 129 23951

Approval Date: 05/09/2014
Expiration Date: 11/09/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 15N Rge: 25W County: ROGER MILLS
SPOT LOCATION: E2 SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 330 1525

Lease Name: HAASE 17-15-25 Well No: 1H Well will be 330 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

NORMAN C. SMITH TRUST
649 EAST AMELIA TER.
NORMAN C. SMITH TRUSTEE
MUSTANG OK 73064

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

| Name | Depth | Name | Depth |
|-----------|-------|------|-------|
| 1 TONKAWA | 8601 | 6 | |
| 2 | | 7 | |
| 3 | | 8 | |
| 4 | | 9 | |
| 5 | | 10 | |

Spacing Orders: 597349

Location Exception Orders: 622912

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14000

Ground Elevation: 2286

Surface Casing: 770

Depth to base of Treatable Water-Bearing FM: 720

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: 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: 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: 14-27158

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 17 Twp 15N Rge 25W County ROGER MILLS
Spot Location of End Point: S2 S2 SW SE
Feet From: SOUTH 1/4 Section Line: 250
Feet From: EAST 1/4 Section Line: 1980
Depth of Deviation: 9253
Radius of Turn: 573
Direction: 181
Total Length: -5353
Measured Total Depth: 14000
True Vertical Depth: 8699
End Point Location from Lease,
Unit, or Property Line: 250

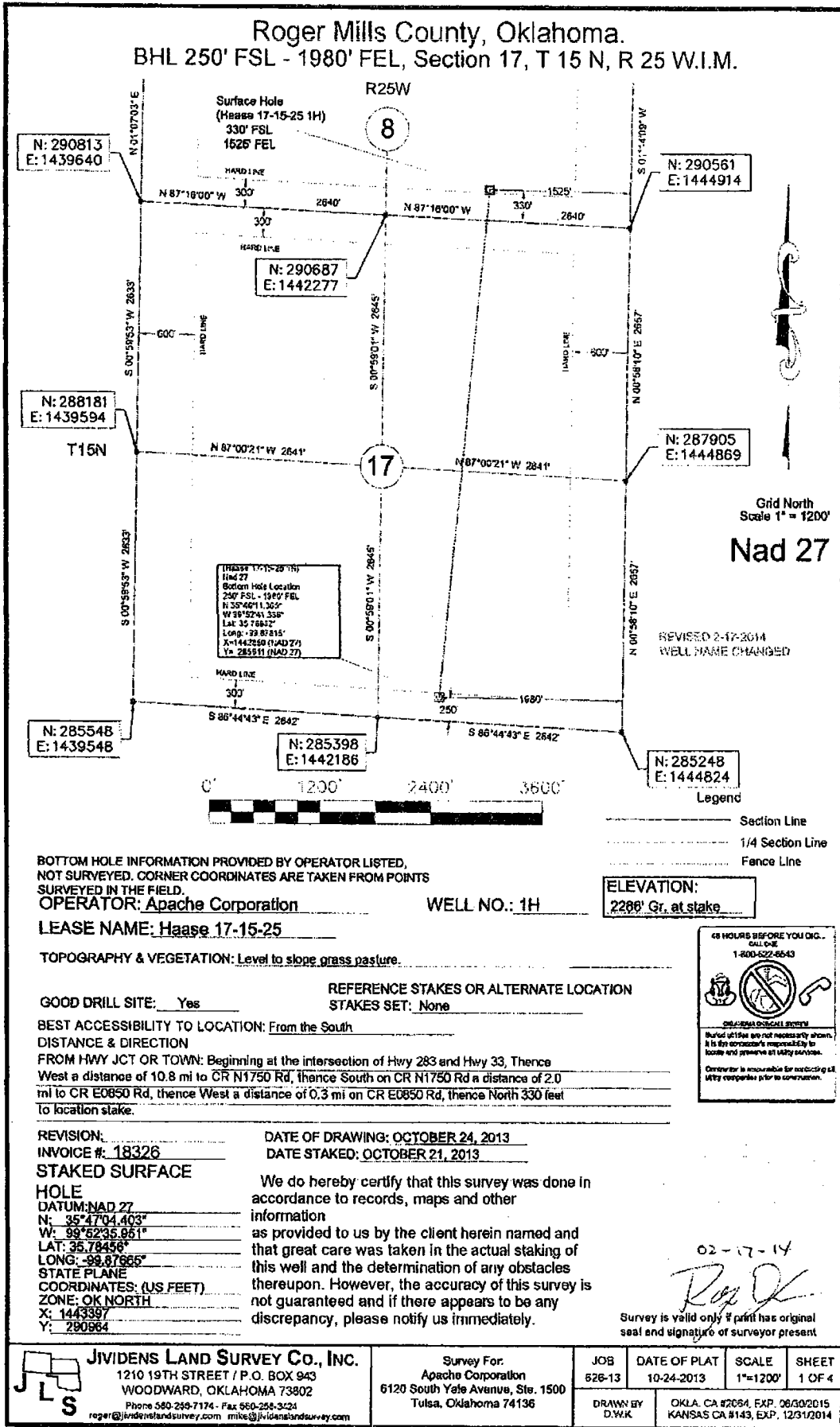
Notes:

Table with 2 columns: Category, Description. Includes entries for LOCATION EXCEPTION - 622912, MEMO, and SPACING - 597349.

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.

API 12923951

Roger Mills County, Oklahoma.
BHL 250' FSL - 1980' FEL, Section 17, T 15 N, R 25 W.I.M.



Grid North
Scale 1" = 1200'
Nad 27

REVISED 2-17-2014
WELL NAME CHANGED

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:
2286' Gr. at stake

LEASE NAME: Haase 17-15-25

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 South
DISTANCE & DIRECTION
FROM HWY JCT OR TOWN: Beginning at the intersection of Hwy 283 and Hwy 33, Thence West a distance of 10.8 mi to CR N1750 Rd, thence South on CR N1750 Rd a distance of 2.0 mi to CR E0850 Rd, thence West a distance of 0.3 mi on CR E0850 Rd, thence North 330 feet to location stake.

REVISION: DATE OF DRAWING: OCTOBER 24, 2013
INVOICE #: 18326 DATE STAKED: OCTOBER 21, 2013

STAKED SURFACE

HOLE
DATUM: NAD 27
N: 35°47'04.403"
W: 99°52'35.961"
LAT: 35.78456°
LONG: -99.87965°
STATE PLANE
COORDINATES: (US FEET)
ZONE: OK NORTH
X: 1443397
Y: 290964

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.

02-17-14
Reg K
Survey is valid only if print has original seal and signature of surveyor present

48 HOURS BEFORE YOU DIG...
CALL US
1-800-622-6643

OKLAHOMA GEOLOGICAL SURVEY
Buried utilities are not necessarily shown. It is the contractor's responsibility to locate and preserve all utility services.
Contractor is responsible for notifying all utility companies prior to construction.

| | | | | | |
|--|---|--|----------------------------|-------------------|-----------------|
| JVIDENS LAND SURVEY CO., INC. 1210 19TH STREET / P.O. BOX 943 WOODWARD, OKLAHOMA 73802 Phone 580-259-7174 - Fax 580-258-3324 roger@jvidenslandsurvey.com mike@jvidenslandsurvey.com | Survey For: Apache Corporation 6120 South Yale Avenue, Ste. 1500 Tulsa, Oklahoma 74136 | JOB 626-13 | DATE OF PLAT 10-24-2013 | SCALE 1"=1200' | SHEET 1 OF 4 |
| | DRAWN BY D.W.K. | OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014 | | | |