

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

API NUMBER: 129 23963

Approval Date: 06/13/2014

Expiration Date: 12/13/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 15N Rge: 26W

County: ROGER MILLS

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 250 1500

Lease Name: SHAW 13-15-26

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

THORAL H. & LINDA SHAW
8522 HWY 30
DURHAM OK 73642

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

Name	Depth	Name	Depth
1 CLEVELAND	10203	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 135140

Location Exception Orders: 625834

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15000

Ground Elevation: 2311

Surface Casing: 700

Depth to base of Treatable Water-Bearing FM: 650

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: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

Type of Mud System: WATER BASED

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-27467

Chlorides Max: 8000 Average: 5000

H. SEE MEMO

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

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 13 Twp 15N Rge 26W County ROGER MILLS

Spot Location of End Point: W2 NW NE NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1500

Depth of Deviation: 10400

Radius of Turn: 573

Direction: 1

Total Length: 4643

Measured Total Depth: 15000

True Vertical Depth: 10203

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

Notes:

Category

Description

LOCATION EXCEPTION - 625834

6/13/2014 - G72 - 13-15N-26W (I.O.)
X 135140 CLVD;
SHL NCT 250 FSL NCT 1500 FWL;
COMP INT. NCT 300 FSL NCT 300 FNL NCT 1320 FWL;
APACHE CORPORATION;
5/22/2014

MEMO

6/10/2014 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM
RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 135140

6/13/2014 - G72 - (640) 13-15N-26W
EXT 100037 CLVD;
EST OTHERS;

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

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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.

129 23963 SHAW 13-15-26 1H

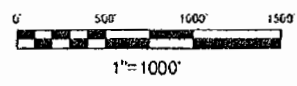
APT 12923963

Sec. 13-15N-26W I.M.

Well Location Plat

Operator: APACHE CORPORATION
 Lease Name and No. : SHAW 13-15-26 1H
 Footage : 250' FSL - 1500' FWL GR. ELEVATION : 2311' Good Site? YES
 Section: 13 Township: 15N Range: 26W I.M.
 County : Roger Mills State of Oklahoma
 Alternate Loc. : N/A
 Terrain at Loc. : Stake fell in brushy, sandy, flat pasture, 237' North of E-W Fence.

Accessibility : From the North.
 Directions : From the junction of State Highway 30 & State Highway 33 in Northwest Roger Mills County, go 2 miles South on Hwy 30 to the Northwest Corner of Section 13-15N-26W.



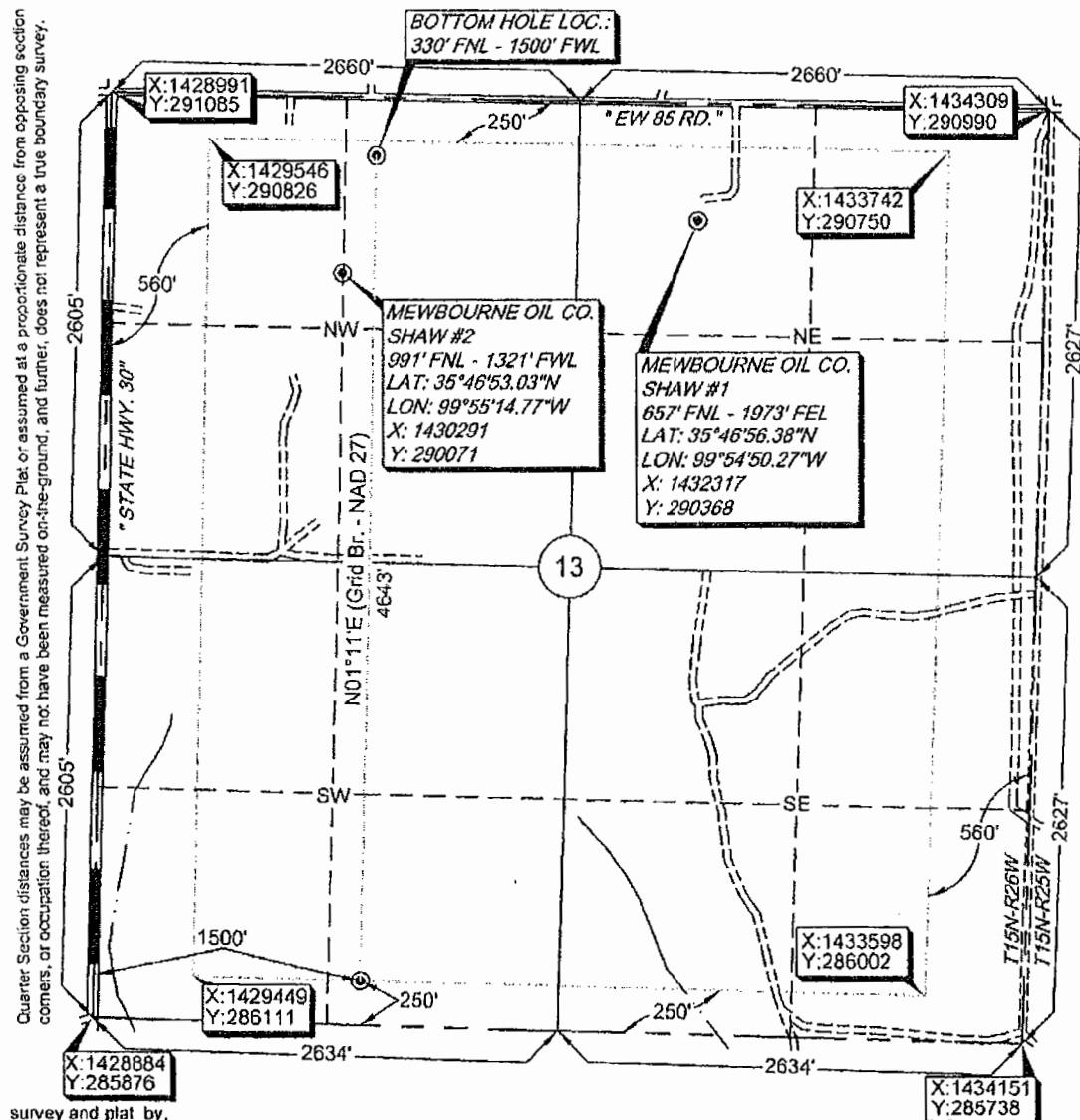
GPS DATUM
 NAD - 27
 OK NORTH ZONE

Surface Hole Loc.:
 Lat: 35°46'13.66"N
 Lon: 99°55'12.64"W
 X: 1430388
 Y: 286086

Bottom Hole Loc.:
 Lat: 35°46'59.58"N
 Lon: 99°55'12.59"W
 X: 1430484
 Y: 290729

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.

NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.



survey and plat by,
Arkoma Surveying and Mapping, PLLC
 P.O. Box 238 Wilburton, OK 74578
 Ph. 918-465-5711 Fax 918-465-5030

Certificate of Authorization No. 5348
 Expires June 30, 2014

Invoice #4305
 Date Staked : 01/16/14 By: C.K.
 Date Drawn : 01/21/14 By: R.S.

Certification:
 This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Stan Drannon 1/21/14
STAN DRANNON OK LPLS 1672

