

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

API NUMBER: 119 24283

Approval Date: 10/07/2014
Expiration Date: 04/07/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 19N Rge: 1E

County: PAYNE

SPOT LOCATION: SW SE SW SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 262 696

Lease Name: COOLEY 24-19N-1E

Well No: 1MH

Well will be 262 feet from nearest unit or lease boundary.

Operator Name: AMERICAN ENERGY-WOODFORD LLC

Telephone: 4056085574; 4054188

OTC/OCC Number: 23358 0

AMERICAN ENERGY-WOODFORD LLC
PO BOX 18756
OKLAHOMA CITY, OK 73154-0756

JOHNNY & PATTY COOLEY
7124 W. 19TH
STILLWATER OK 74074

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	4532	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201407052
201407050

Special Orders:

Total Depth: 10000

Ground Elevation: 952

Surface Casing: 390

Depth to base of Treatable Water-Bearing FM: 140

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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 BED AQUIFER

Pit Location Formation: WELLINGTON

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28233
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Sec 24 Twp 19N Rge 1E County PAYNE

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 575

Depth of Deviation: 3575

Radius of Turn: 957

Direction: 355

Total Length: 4922

Measured Total Depth: 10000

True Vertical Depth: 4532

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

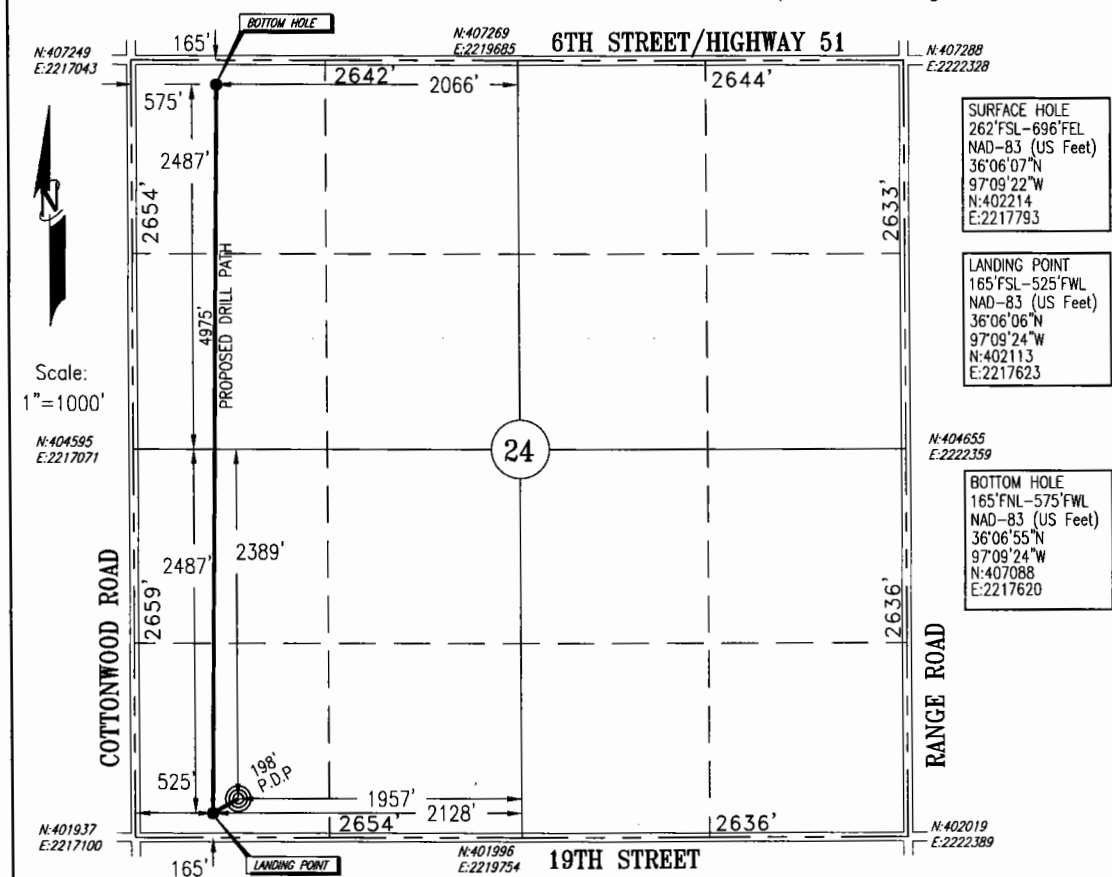
Category	Description
PENDING CD - 201407050	10/6/2014 - G75 - (E.O.)(640)(HOR) 24-19N-1E EXT 622501 MSSP, OTHERS POE TO BHL NCT 660' FB AMERICAN ENERGY - WOODFORD, LLC REC 10-3-2014 (M. PORTER)
PENDING CD - 201407052	10/6/2014 - G75 - (E.O.) 24-19N-1E X201407050 MSSP, OTHERS COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 330 FWL AMERICAN ENERGY-WOODFORD, LLC REC 10-3-2014 (M. PORTER)

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.
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PROPOSED WELL LOCATION APT 110-24283

PAYNE County, Oklahoma

262' FSL 696' FWL SW/4 Section 24, Township 19N, Range 1E I.M.



N:407249
E:2217043

N:407269
E:2219665

N:407288
E:2222328

Scale:
1" = 1000'

N:404595
E:2217071

N:404655
E:2222359

N:401937
E:2217100

N:401996
E:2219754

N:402019
E:2222389

SURFACE HOLE
262' FSL-696' FEL
NAD-83 (US Feet)
36°06'07" N
97°09'22" W
N:402214
E:2217793

LANDING POINT
165' FSL-525' FWL
NAD-83 (US Feet)
36°06'06" N
97°09'24" W
N:402113
E:2217623

BOTTOM HOLE
165' FNL-575' FWL
NAD-83 (US Feet)
36°06'55" N
97°09'24" W
N:407088
E:2217620

Bottom Hole, Landing Point, and Drill Path information provided by operator listed, NOT Surveyed; distance between drill paths are calculated.

Operator: AMERICAN ENERGY-WOODFORD, LLC Well No.: 1MH

Lease Name: COOLEY 24-19N-1E

Topography & Vegetation: LOCATION FELL IN PASTURE LAND

Good Drill Site: YES

Best Accessibility to Location: FROM SOUTH

Distance and Direction from Hwy Junction or Town: FROM THE INTERSECTION OF COTTONWOOD ROAD AND 19TH STEERT EAST
0.17 MILES TO WELL PAD

ELEVATION:
952' GR. AT STAKE

Keystone Engineering and Land Surveying, Inc. CA #5877 Exp. 6/30/15 P.O. Box 436 Stillwater, OK. 74076 Ph. (405) 743-3355

CERTIFICATE: W14-198

I, Carey E. Harris, an Oklahoma Professional Land Surveyor and an authorized agent of Keystone Engineering and Land Surveying, Inc., does hereby certify that on August 5, 2014, the above described well location was surveyed on the ground as shown herein.

[Signature] 23 Sep 14

Carey E. Harris, Oklahoma Professional Land Surveyor No. 1719

(THE FOLLOWING INFORMATION WAS GATHERED USING A GPS RECEIVER. ACCURACY ±3 FOOT.)

GPS DATUM: NAD-83

LATITUDE: 36°06'07" N

LONGITUDE: 97°09'22" W

STATE PLANE COORDINATES

ZONE: OK NORTH

X: 2217793

Y: 402214