

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

API NUMBER: 119 24238 B

Approval Date: 06/27/2014  
Expiration Date: 12/27/2014

Horizontal Hole Oil & Gas

Amend reason: CHANGE BHL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 19N Rge: 2E County: PAYNE  
SPOT LOCATION:  NW  NE  NW  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 276 1652

Lease Name: STILLWATER CREEK 25-19N-2E Well No: 1WH Well will be 276 feet from nearest unit or lease boundary.

Operator Name: AMERICAN ENERGY-WOODFORD LLC Telephone: 4056085540; 4054188 OTC/OCC Number: 23358 0

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

COMMISSIONERS OF THE LAND OFFICE  
PO BOX 248896  
OKLAHOMA CITY OK 73124

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4300	6	
2	WOODFORD	4460	7	
3	MISENER-HUNTON	4485	8	
4			9	
5			10	

Spacing Orders: 619173

Location Exception Orders: 623632

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10500

Ground Elevation: 908

**Surface Casing: 340**

Depth to base of Treatable Water-Bearing FM: 90

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

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: OSCAR

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 14-26927

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 25 Twp 19N Rge 2E County PAYNE

Spot Location of End Point: NE NW NE NE

Feet From: NORTH 1/4 Section Line: 215

Feet From: EAST 1/4 Section Line: 750

Depth of Deviation: 3679

Radius of Turn: 780

Direction: 360

Total Length: 4500

Measured Total Depth: 10500

True Vertical Depth: 4485

End Point Location from Lease,  
Unit, or Property Line: 215

Notes:

Category

Description

LOCATION EXCEPTION - 623623

6/27/2014 - G72 - 25-19N-02E (I.O.)  
X 619173 MSSP, WDFD, MSRH;  
COMP INT. NCT 165 FSL NCT 165 FNL NCT 330 FEL;  
AMERICAN ENERGY-WOODFORD, LLC;  
4/7/2014

SPACING - 619173

6/27/2014 - G72 - (640 HORZ) 25-19N-02E  
EXT 605008 MSSP, WDFD, MSRH, OTHER  
MSSP, MSRH NCT 660' FB,  
WDFD, OTHER NCT 330 FB;  
SUPERCEDE EXISTING NON-DEVELOPED NON-HORIZONTAL DRILLING AND SPACING UNITS

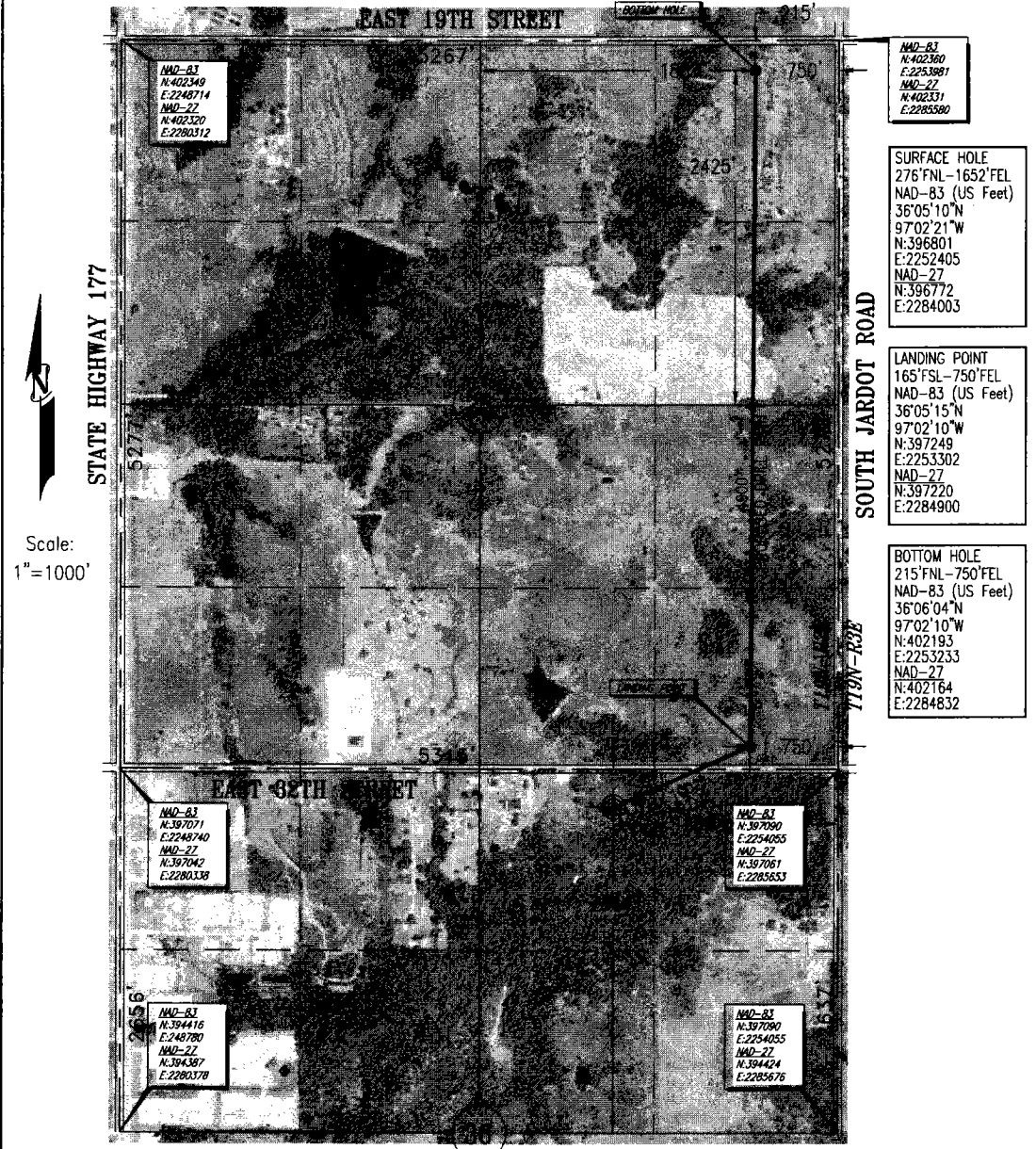
WATERSHED STRUCTURE

6/23/2014 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION  
WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405)  
372-7201 PRIOR TO DRILLING

119-24238 B

**PROPOSED WELL LOCATION**

PAYNE County, Oklahoma  
 276' FNL, 1652' FEL NE/4 Section 36, Township 19N, Range 2E I.M.



Scale:  
1"=1000'

- NAD-83**  
N:402360  
E:2253681
- NAD-27**  
N:402331  
E:2265580
- SURFACE HOLE**  
276' FNL-1652' FEL  
NAD-83 (US Feet)  
36°05'10"N  
97°02'21"W  
N:396801  
E:2252405
- NAD-27**  
N:396772  
E:2284003
- LANDING POINT**  
165' FSL-750' FEL  
NAD-83 (US Feet)  
36°05'15"N  
97°02'10"W  
N:397249  
E:2253302
- NAD-27**  
N:397220  
E:2284900
- BOTTOM HOLE**  
215' FNL-750' FEL  
NAD-83 (US Feet)  
36°06'04"N  
97°02'10"W  
N:402193  
E:2253233
- NAD-27**  
N:402164  
E:2284832

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  
 Lease Name: STILLWATER CREEK 25-19N-2E Well No.: 1WH  
 Topography & Vegetation: LOCATION FELL IN PASTURE LAND  
 Good Drill Site: YES  
 Best Accessibility to Location: FROM NORTH  
 Distance and Direction from Hwy Junction or Town: FROM THE INTERSECTION OF STATE HIGHWAY 177 AND EAST 32nd ROAD EAST  
0.65 MILES TO WELL PAD

**ELEVATION:**  
908' 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:** W14-170 REVISED 11-06-14  
 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 April 24th, 2014, the above described well location was surveyed on the ground as shown herein.  
 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°05'10" N  
 LONGITUDE: 97°02'21" W  
 STATE PLANE COORDINATES  
 ZONE: OK NORTH  
 X: 2252405  
 Y: 396801