

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

API NUMBER: 119 24232

Approval Date: 06/11/2014
Expiration Date: 12/11/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 19N Rge: 3E County: PAYNE
SPOT LOCATION: SW SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 278 1567

Lease Name: ADAMS 31-19N-3E Well No: 1WH Well will be 278 feet from nearest unit or lease boundary.

Operator Name: AMERICAN ENERGY-WOODFORD LLC Telephone: 4054188001; 4054188 OTC/OCC Number: 23358 0

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

FRANK W & SANDRA J ADAMS
2805 EAST 32ND
STILLWATER OK 74074

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	4240	6	
2	WOODFORD	4384	7	
3	MISENER	4432	8	
4	SYLVAN	4437	9	
5			10	

Spacing Orders: 608471 Location Exception Orders: 626047 Increased Density Orders: 626046
609104

Pending CD Numbers:

Special Orders:

Total Depth: 9900 Ground Elevation: 872 **Surface Casing: 330** Depth to base of Treatable Water-Bearing FM: 80

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: 14-27216
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 31 Twp 19N Rge 3E County PAYNE

Spot Location of End Point: SW SE SE SW

Feet From: SOUTH 1/4 Section Line: 215

Feet From: WEST 1/4 Section Line: 2025

Depth of Deviation: 3625

Radius of Turn: 780

Direction: 360

Total Length: 4800

Measured Total Depth: 9900

True Vertical Depth: 4437

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

Notes:

Category	Description
INCREASED DENSITY - 626046	6/10/2014 - G72 - 31-19N-3E (E.O.) X 608471 & 609104 WDFD, MSNR; 1 OF THE 2 REQUESTED WELLS; AMERICAN ENERGY-WOODFORD, LLC; 5/28/2014
LOCATION EXCEPTION - 626047	6/10/2014 - G72 - 31-19N-03E (E.O.) X 608471 & 609104 MSSP, WDFD, MSNR, SLVN; SHL 278 FSL 1567 FWL; COMP INT. NCT 165 FSL NCT 165 FNL NCT 1320 FWL; AMERICAN ENERGY-WOODFORD, LLC 5/28/2014
SPACING - 608471	6/10/2014 - G72 - (640 HORZ) 31-19N-03E VAC 205997 MSSLM, OTHER; EXT 605008 MSSP, WDFD, SLVN, OTHER; WDFD 330 FB ALL OHTERS 660 FB. SUPERCEDE EXISTING NON-DEVELOPED NON-HORIZONTAL DRILLING AND SPACING UNITS/ EXIST CONCURRENTLY WITH PRODUCING NON-HORIZONTAL DRILLING AND SPACING UNITS.
SPACING - 609104	6/10/2014 - G72 - (640 HORZ) 31-19N-3E VAC 205997 MSNR; EST MSNR; SUPERCEDE EXISTING NON-DEVELOPED NON-HORIZONTAL DRILLING AND SPACING UNITS

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