

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

API NUMBER: 119 24227

Approval Date: 05/28/2014  
Expiration Date: 11/28/2014

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 1597

Lease Name: ADAMS 30-19N-3E Well No: 2WH 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	4375	7	
3	MISENER	4425	8	
4	SYLVAN	4430	9	
5			10	

Spacing Orders: 611477

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201403345  
201403343

Special Orders:

Total Depth: 10500

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

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: OSCAR

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-27218  
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 30 Twp 19N Rge 3E County PAYNE

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 215

Feet From: EAST 1/4 Section Line: 2535

Depth of Deviation: 3617

Radius of Turn: 1326

Direction: 15

Total Length: 4800

Measured Total Depth: 10500

True Vertical Depth: 4430

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

Notes:

Category	Description
PENDING CD - 201403343	5/22/2014 - G75 - 30-19N-3E X611477 WDFD 3 WELLS NO OP. NAMED HEARING 6-16-2014
PENDING CD - 201403345	5/22/2014 - G75 - (I.O.) 30-19N-3E X611477 MSSP, WDFD, MSNR, SLVN COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 1980 FEL NO OP. NAMED REC 5-27-2014 (MCKEOWN)
SPACING - 611477	5/22/2014 - G75 - (640)(HOR) 30-19N-3E EXT 605008 MSSP, WDFD, SLVN EST MSNR POE TO BHL (WDFD) NCT 330' FB POE TO BHL (OTHERS) NCT 660' FB (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

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