

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

API NUMBER: 119 24286

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

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 19N Rge: 3E County: PAYNE
SPOT LOCATION: NE NW NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 245 795

Lease Name: FRIEDEMANN WEST 28-21-19N-3E Well No: 1WH Well will be 245 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

RANDY J. & MARY A. WEDEL
901 S. MAIN ST.
STILLWATER OK 74074

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

Name	Depth	Name	Depth
1 WOODFORD	4140	6	
2 MISENER-HUNTON	4206	7	
3		8	
4		9	
5		10	

Spacing Orders: 616533
619448

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201407214
201407215
201407213

Special Orders:

Total Depth: 15000 Ground Elevation: 869 **Surface Casing: 590** Depth to base of Treatable Water-Bearing FM: 340

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: 14-28311
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 21 Twp 19N Rge 3E County PAYNE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 450

Depth of Deviation: 3600

Radius of Turn: 891

Direction: 1

Total Length: 10000

Measured Total Depth: 15000

True Vertical Depth: 4491

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

Notes:

Category

Description

PENDING CD - 201407213

10/9/2014 - G91 - (E.O.)(640) 21 & 28-19N-3E
EST MULTIUNIT HORIZONTAL WELL
X 616533 WDFD, MSRH, OTHER 28-19N-3E
X 619448 WDFD, MSRH, OTHER 21-19N-3E
(MSSP, MSRH ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD)
50% 21-19N-3E
50% 28-19N-3E
AMERICAN ENERGY - WOODFORD, LLC.
REC. 10-7-2014 (LEAVITT)

PENDING CD - 201407214

10/9/2014 - G91 - 21 & 28-19N-3E
X 616533 WDFD 28-19N-3E
X 619448 WDFD 21-19N-3E
1 WELL
NO OP. NAMED
HEARING 10-21-2014

PENDING CD - 201407215

10/9/2014 - G91 - (E.O.) 21 & 28-19N-3E
X 616533 WDFD, MSRH, OTHER 28-19N-3E
X 619448 WDFD, MSRH, OTHER 21-19N-3E
COMPL. INT. (28-19N-3E) NCT 165 FSL, NCT 0 FNL, NCT 450 FEL
COMPL. INT. (21-19N-3E) NCT 0 FSL, NCT 165 FNL, NCT 450 FEL
AMERICAN ENERGY - WODDFORD, LLC.
REC. 10-7-2014 (LEAVITT)

SPACING - 616533

10/9/2014 - G91 - (640)(HOR) 28-19N-3E
VAC 271050 WDFD, MSNR, HNTN, OTHER
VAC 362551/369480 WDFD, MSNR, OTHER (N2 SE4 SE4, SW4 SE4 SE4)
VAC 362551 WDFD, MSNR, OTHER (N2 SE4, SW4 SE4, SE4 SE4 SE4, SW4)
EXT 603961 WDFD, MSRH OTHERS
POE TO BHL NCT 330' FB (WDFD)
POE TO BHL NCT 660' FB (MSRH)

SPACING - 619448

10/9/2014 - G91 - (640)(HOR) 21-19N-3E
VAC 268329 WDFD, MSNR, HNTN, OTHERS
EXT 612294 WDFD, MSRH, OTHERS
POE TO BHL NCT 330' FB (WDFD)
POE TO BHL NCT 660' FB (MSRH)