

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

API NUMBER: 119 24310 A

Approval Date: 11/24/2014  
Expiration Date: 05/24/2015

Horizontal Hole Oil & Gas

Amend reason: LOCATED WITHIN THE CUSHING WATERSHED.  
REQUIRES 750' MINIMUM SURFACE CASING.

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 17N Rge: 4E County: PAYNE  
SPOT LOCATION:  SW  SE  SW  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 287 1931

Lease Name: TARVER 3-17N-4E Well No: 1MH Well will be 287 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

LINDA TARVER  
215 S. BRETHERN  
CUSHING OK 74023

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	3910	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 591937 Location Exception Orders: 633237 Increased Density Orders: 633236

Pending CD Numbers: Special Orders:

Total Depth: 9100 Ground Elevation: 885 Surface Casing: 900 Depth to base of Treatable Water-Bearing FM: 250

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: VANOSS

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28856

H. CLOSED SYSTEM=STEEL PITS REQUIRED (CUSHING LAKE)

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 03 Twp 17N Rge 4E County PAYNE

Spot Location of End Point: NE NE NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2420

Depth of Deviation: 3410

Radius of Turn: 481

Direction: 357

Total Length: 4934

Measured Total Depth: 9100

True Vertical Depth: 4125

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

Notes:

Category	Description
INCREASED DENSITY - 633236	11/24/2014 - G91 - (E.O.) 3-17N-4E X591937 MSSP 2 WELLS AMERICAN ENERGY-WOODFORD, LLC. 11-19-2014
LOCATION EXCEPTION - 633237	11/24/2014 - G91 - (E.O.) 3-17N-4E X591937 MSSP COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 1320 FWL AMERICAN ENERGY-WOODFORD, LLC. 11-19-2014
SPACING - 591937	11/24/2014 - G91 - (640)(HOR) 3-17N-4E EST MSSP, OTHERS POE TO BHL NCT 660' FB (SUPERCEDE NON-DEVELOP NON-HORIZONTAL SPACING UNITS)
SURFACE CASING	12/1/2014 - G71 - 750' SURFACE CASING REQUIRED PER CITY OF CUSHING

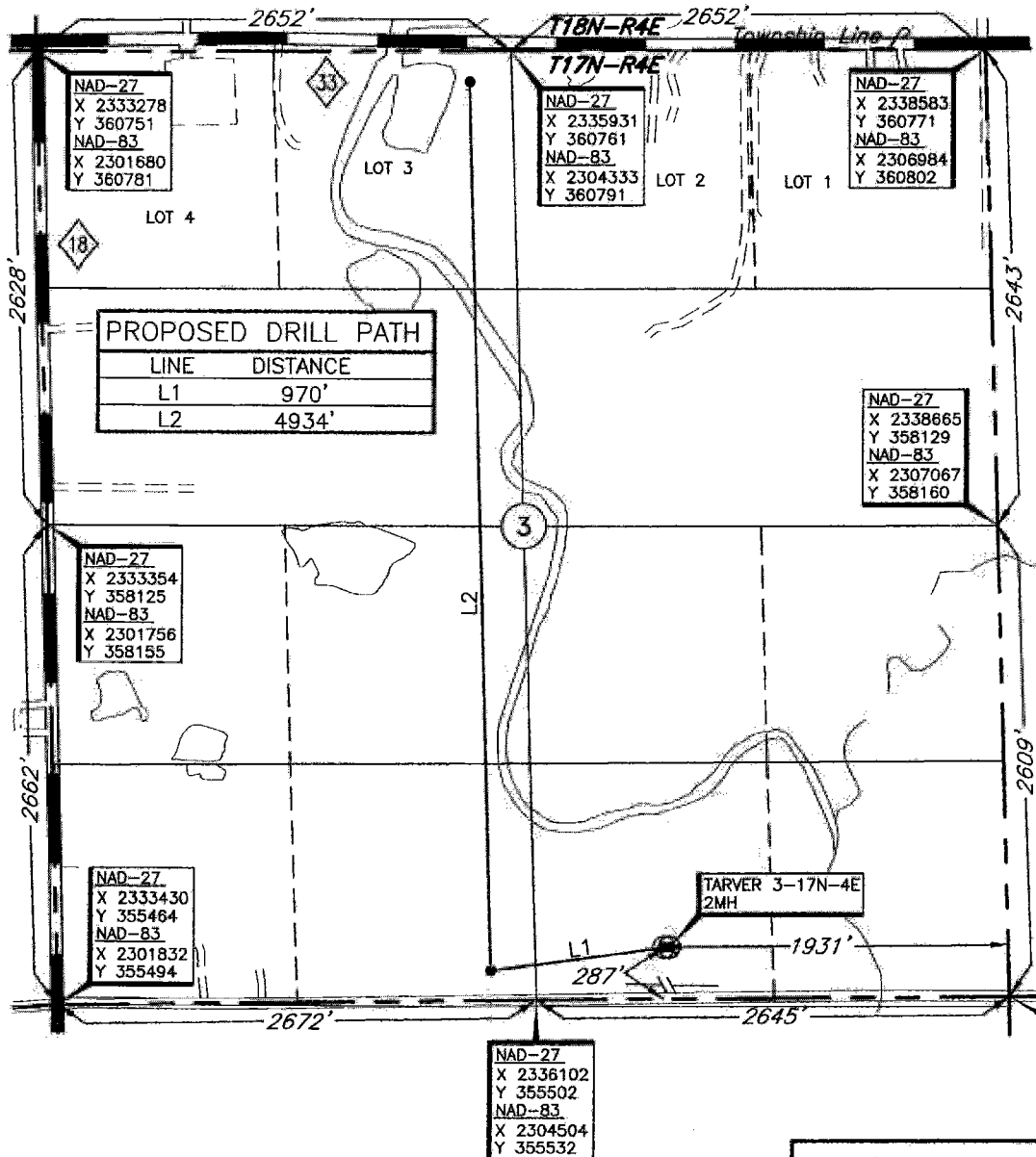
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119-24310

PAYNE County, Oklahoma  
 287'FSL-1931'FEL Section 3 Township 17N Range 4E I.M.

BOTTOM HOLE, LANDING POINT, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.



**BOTTOM HOLE**  
 165'FNL-2420'FWL  
 NAD-27  
 35°59'06.8" N  
 96°51'55.1" W  
 35.985234" N  
 96.865303" W  
 X: 2335704  
 Y: 360595  
 NAD-83  
 35°59'07.1" N  
 96°51'56.2" W  
 35.985295" N  
 96.865608" W  
 X: 2304105  
 Y: 360625

**LANDING POINT**  
 165'FSL-2420'FWL  
 NAD-27  
 35°58'18.1" N  
 96°51'54.1" W  
 35.971682" N  
 96.865019" W  
 X: 2335846  
 Y: 355663  
 NAD-83  
 35°58'18.3" N  
 96°51'55.2" W  
 35.971744" N  
 96.865324" W  
 X: 2304246  
 Y: 355693

**SURFACE HOLE**  
 NAD-83  
 35°58'19.5" N  
 96°51'43.5" W  
 35.972072" N  
 96.862072" W  
 X: 2305207  
 Y: 355824

LINE	DISTANCE
L1	970'
L2	4934'

GRID  
 NAD-27  
 OK NORTH  
 US FEET  
 Scale:  
 1" = 1000'

Operator: AMERICAN ENERGY - WOODFORD, LLC  
 Lease Name: TARVER 3-17N-4E

Well No.: 1MH **ELEVATION:** 887' Gr. at Stake

Topography & Vegetation Loc. fell in sloping, brushy pasture, ± 209' N. of pipeline  
 Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None  
 Best Accessibility to Location From South off county road  
 Distance & Direction From the junction of St. Hwy 33 E-W & St. Hwy 18 North, go ± 4 miles West on St. Hwy 33, then ± 1 mile South, then ± 1 mile West to the Southeast Corner of Section 3, T17N-R4E.

DATUM: NAD-27  
 LAT: 35°58'19.2"N  
 LONG: 96°51'42.4"W  
 LAT: 35.972011° N  
 LONG: 96.861767° W  
 STATE PLANE  
 COORDINATES (US FEET):  
 ZONE: OK NORTH  
 X: 2336806  
 Y: 355794

Date of Drawing: Oct. 31, 2014  
 Invoice # 233468 Date Staked: Oct. 30, 2014 NMB

**CERTIFICATE:**  
 I, \_\_\_\_\_ a Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify to the information shown herein.  
**PRELIMINARY**  
 Oklahoma Reg. No. \_\_\_\_\_

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy