

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

API NUMBER: 119 24311 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 1901

Lease Name: TARVER 3-17N-4E Well No: 2MH 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	3897	6
2			7
3			8
4			9
5			10

Spacing Orders: 591937 Location Exception Orders: 633238 Increased Density Orders: 633236

Pending CD Numbers: Special Orders:

Total Depth: 9000 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:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28857
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: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1730

Depth of Deviation: 3397

Radius of Turn: 430

Direction: 1

Total Length: 4928

Measured Total Depth: 9000

True Vertical Depth: 4125

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

Notes:

Category	Description
INCREASED DENSITY - 633236	11/21/2014 - G91 - (E.O.) 3-17N-4E X591937 MSSP 2 WELLS ENERGY-WOODFORD, LLC. 11-19-2014
LOCATION EXCEPTION - 633238	11/21/2014 - G91 - (E.O.) 3-17N-4E X591937 MSSP COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 1320 FEL 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

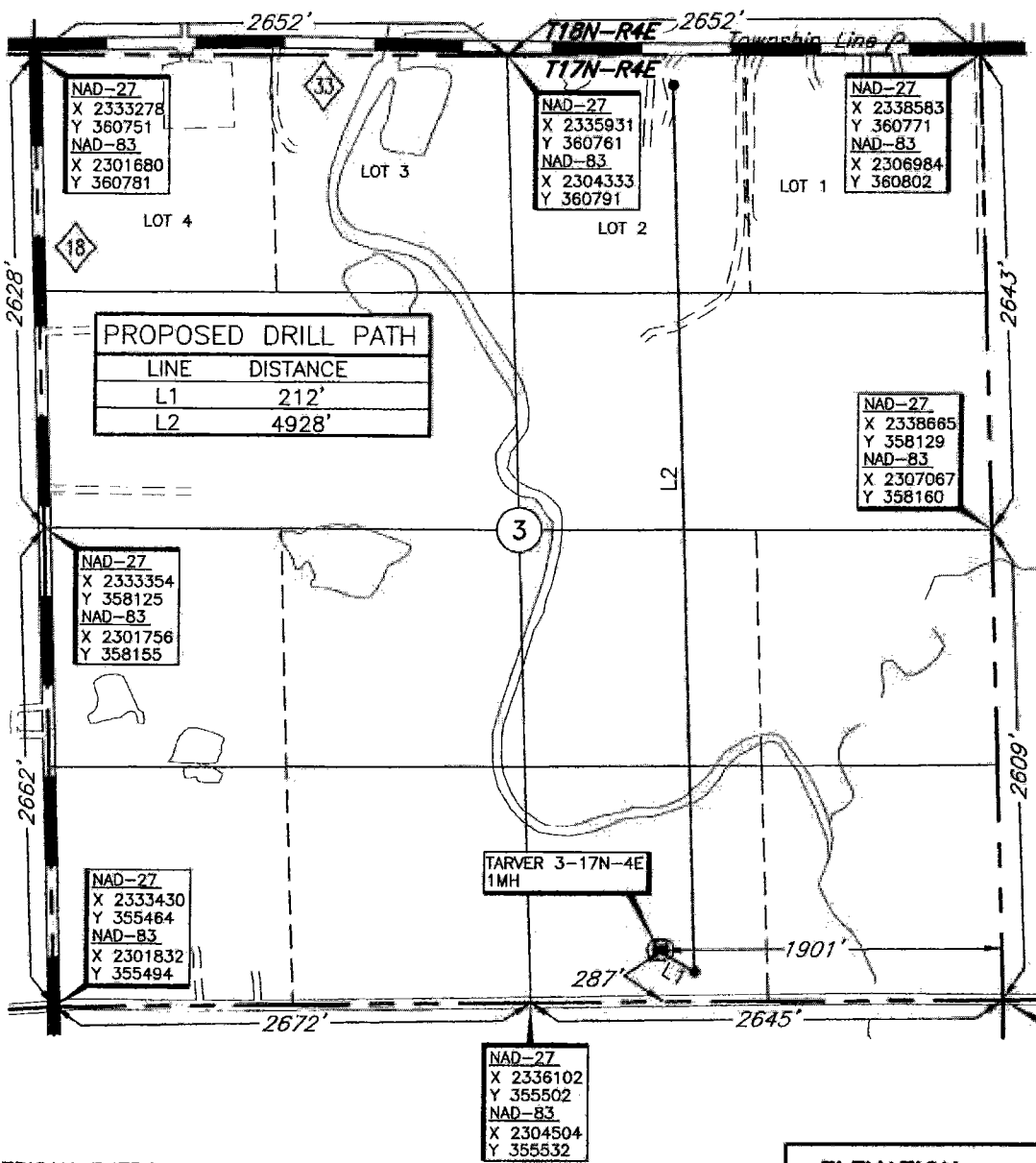
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The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
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119-24311

PAYNE County, Oklahoma
 287' FSL-1901' 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-1730' FEL
 NAD-27
 35°59'06.8" N
 96°51'41.1" W
 35.985209" N
 96.861404" W
 X: 2336858
 Y: 360599
 NAD-83
 35°59'07.0" N
 96°51'42.2" W
 35.985270" N
 96.861709" W
 X: 2305258
 Y: 360629

LANDING POINT
 165' FSL-1730' FEL
 NAD-27
 35°58'18.0" N
 96°51'39.9" W
 35.971673" N
 96.861081" W
 X: 2337011
 Y: 355674
 NAD-83
 35°58'18.2" N
 96°51'41.0" W
 35.971734" N
 96.861386" W
 X: 2305412
 Y: 355703

SURFACE HOLE
 NAD-83
 35°58'19.5" N
 96°51'43.1" W
 35.972072" N
 96.861970" W
 X: 2305237
 Y: 355824

NAD-27
 X 2338746
 Y 355521
 NAD-83
 X 2307148
 Y 355552

NAD-27
 X 2336102
 Y 355502
 NAD-83
 X 2304504
 Y 355532

NAD-27
 X 2338665
 Y 358129
 NAD-83
 X 2307067
 Y 358160

NAD-27
 X 2333278
 Y 360751
 NAD-83
 X 2301680
 Y 360781

NAD-27
 X 2335931
 Y 360761
 NAD-83
 X 2304333
 Y 360791

NAD-27
 X 2338583
 Y 360771
 NAD-83
 X 2306984
 Y 360802

NAD-27
 X 2333354
 Y 358125
 NAD-83
 X 2301756
 Y 358155

NAD-27
 X 2333430
 Y 355464
 NAD-83
 X 2301832
 Y 355494

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

Well No.: 2MH
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 Hwy Jct or Town 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°51'42.0"W
 LAT: 35.972011° N
 LONG: 96.861665° W
 STATE PLANE COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 2336836
 Y: 355794

Date of Drawing: Oct. 31, 2014
 Invoice # 233468A 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