

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

API NUMBER: 119 24400 A

Approval Date: 04/08/2016
Expiration Date: 10/08/2016

Horizontal Hole Oil & Gas

Amend reason: CORRECT SURFACE OWNER

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 19N Rge: 2E

County: PAYNE

SPOT LOCATION: SW SE SE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 270 2120

Lease Name: ALDEAN 3-10-18N-2E

Well No: 1WH

Well will be 270 feet from nearest unit or lease boundary.

Operator Name: AMERICAN ENERGY-WOODFORD LLC

Telephone: 4056085540

OTC/OCC Number: 23358 0

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

MICHAEL D. & MICHELLE N. KRUEGER
P.O. BOX 863
STILLWATER OK 74076

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

	Name	Depth	Name	Depth
1	WOODFORD	4581	6	
2	MISENER-HUNTON	4620	7	
3			8	
4			9	
5			10	

Spacing Orders: 649899
649900
650175

Location Exception Orders: 650181

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14500

Ground Elevation: 951

Surface Casing: 570

Depth to base of Treatable Water-Bearing FM: 320

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: WELLINGTON

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 16-31173

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 10 Twp 18N Rge 2E County PAYNE

Spot Location of End Point: SE SE SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1185

Depth of Deviation: 3808

Radius of Turn: 800

Direction: 182

Total Length: 9435

Measured Total Depth: 14500

True Vertical Depth: 4620

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

Notes:

Category

Description

HYDRAULIC FRACTURING

4/6/2016 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE.

LOCATION EXCEPTION - 650181

4/6/2016 - G60 - (I.O.) 3 & 10-18N-2E
X649899 WDFD, MSRH, OTHER 3-18N-2E
X649900 WDFD, MSRH, OTHER 10-18N-2E
COMPL. INT. (3-18N-2E) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL
COMPL. INT. (10-18N-2E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL
AMERICAN ENERGY - WOODFORD, LLC.
2-24-16

SPACING - 649899

4/6/2016 - G60 - (640)(HOR) 3-18N-2E
EXT 647205 WDFD, MSRH, OTHER
POE TO BHL (MSRH) NCT 660' FB
POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

SPACING - 649900

4/6/2016 - G60 - (640)(HOR) 10-18N-2E
VAC 221474 MSNR, HNTN, OTHER
EXT 647205 WDFD, MSRH, OTHER
POE TO BHL (MSRH) NCT 660' FB
POE TO BHL (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL

SPACING - 650175

4/6/2016 - G60 - (I.O.) 3 & 10-18N-2E
EST MULTIUNIT HORIZONTAL WELL
X649899 WDFD, MSRH, OTHER 3-18N-2E
X649900 WDFD, MSRH, OTHER 10-18N-2E
(MSRH IS ASSOCIATED COMMON SOURCE OF SUPPLY TO WDFD)
50% 3-18N-2E
50% 10-18N-2E
AMERICAN ENERGY - WOODFORD, LLC.
2-25-16

This permit does not address the right of entry or settlement of surface damages.
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