

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

API NUMBER: 119 24321

Approval Date: 01/14/2015

Expiration Date: 07/14/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 18N Rge: 3E

County: PAYNE

SPOT LOCATION:  NE  NE  NE  NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 250 325

Lease Name: MCLAIN 31-18N-3E

Well No: 2WH

Well will be 250 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

ELIZABETH MCLAIN, TRUSTEE  
10718 S. BRUSH CREEK ROAD  
PERKINS OK 74059

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

Name	Depth	Name	Depth
1 WOODFORD	4470	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 630754

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201500006  
201500007

Special Orders:

Total Depth: 10000

Ground Elevation: 902

**Surface Casing: 580**

Depth to base of Treatable Water-Bearing FM: 330

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? Y

Wellhead Protection Area? Y

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: 14-29318

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 31 Twp 18N Rge 3E County PAYNE

Spot Location of End Point: S2 SE SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1650

Depth of Deviation: 4100

Radius of Turn: 600

Direction: 220

Total Length: 4957

Measured Total Depth: 10000

True Vertical Depth: 4700

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

Notes:

Category	Description
PENDING CD - 201500006	1/8/2015 - G76 - 31-18N-3E X630754 WDFD, OTHERS COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 1320 FEL NO OP. NAMED REC. 1/12/2015 (DECKER)
PENDING CD - 201500007	1/8/2015 - G76 - 31-18N-3E X630754 WDFD 1 WELL NO OP. NAMED HEARING 1/27/2015
PUBLIC WATER SUPPLY/WELLHEAD PROTECTION AREA	12/31/2014 - G71 - PAYNE CO RWD #1 - 5 PWS/WPA, N2 31-18N-3E & SW/4 29-18N-3E
SPACING - 630754	1/8/2015 - G76 - (640)(HOR) 31-18N-3E EXT 615766 WDFD, OTHER EST OTHER POE TO BHL (OTHERS) NCT 660 FB POE TO BHL (WDFD) NCT 330 FB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS)

API 119-24321

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

API NUMBER: 000 00000

Approval Date:  
Expiration Date:

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 18N Rge: 3E County: PAYNE  
SPOT LOCATION: NE NE NE NE FEET FROM QUARTER FROM NORTH FROM EAST  
SECTION LINES: 250 325

Application for  
Intent to Drill

Lease Name: MCLAIN 31-18N-3E Well No: 2WH Well will be 250 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

ELIZABETH MCLAIN, TRUSTEE OF THE ELIZABETH  
MCLAIN TRUST UNDER DECLARATION OF TRUST DATED  
JUNE 11, 20  
10718 BRUSH CREEK ROAD  
PERKINS OK 74059

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

	Name	Depth	Name	Depth
1	WOODFORD	4470	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 630754

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 20150006 (E.O.) Hearing (1-12-2015) Location Exception  
20150007 Hearing 1-27-2015 Increased Density

Special Orders:

Total Depth: 10000

Ground Elevation: 902

Surface Casing: 580

Depth to base of Treatable Water-Bearing FM: 330

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

Pit 1:  
Water-based, closed  
5K-3K ppm chlorides

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 14-29318

H. Closed system = steel pits per operator request

HORIZONTAL HOLE 1

Sec 31 Twp 18N Rge 3E County PAYNE

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1650

Depth of Deviation: 4100

Radius of Turn: 600

Direction: 220

Total Length: 4957

Measured Total Depth: 10000

True Vertical Depth: 4700

End Point Location from Lease,

Unit, or Property Line: 165

TEMPORARY AUTHORIZATION  
TO DRILL  
Expiration Date: 1-15-2015  
Signature: *Virginia Hullinger*  
165:10-3-1-1

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.

API 119-24321

Notes:  
Category

# Application for Intent to Drill

Description

NOT ALLOWED-DEEP SURFACE CASING 12/30/2014 - HRRSMLND7 - DEEP SURFACE CASING (SURFACE CASING GREATER THAN 250' BELOW BTW) IS NOT ALLOWED FOR MCLAIN 31-18N-3E 2WH DUE TO THE CLOSED PROXIMITY TO 5 PUBLIC WATER SUPPLY WELLS WELLS HEAD PROTECTION AREAS.

Public Water Supply / Wellhead Protection Area:

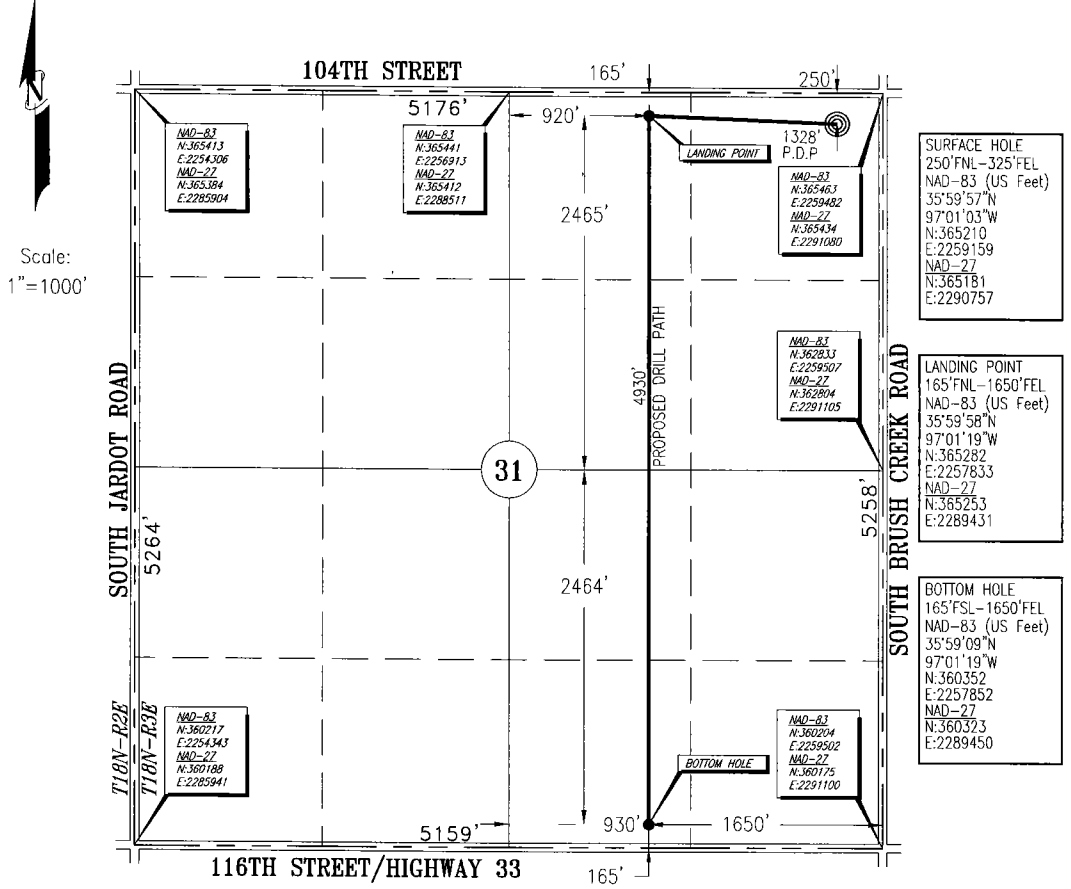
Payne Co. RWD #5- 5 PWS / WPA, N2 31-18N-3E &  
SW4 29-18N-3E

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.

000 00000 MCLAIN 31-18N-3E 2WH

**PROPOSED WELL LOCATION**

PAYNE County, Oklahoma  
 250' FNL, 325' FEL NE/4 Section 31, Township 18N, Range 3E I.M.



**SURFACE HOLE**  
 250'FNL-325'FEL  
 NAD-83 (US Feet)  
 35°59'57"N  
 97°01'03"W  
 N:365210  
 E:2259159  
 NAD-27  
 N:365181  
 E:2290757

**LANDING POINT**  
 165'FNL-1650'FEL  
 NAD-83 (US Feet)  
 35°59'58"N  
 97°01'19"W  
 N:365282  
 E:2257833  
 NAD-27  
 N:365253  
 E:2289431

**BOTTOM HOLE**  
 165'FSL-1650'FEL  
 NAD-83 (US Feet)  
 35°59'09"N  
 97°01'19"W  
 N:360352  
 E:2257852  
 NAD-27  
 N:360323  
 E:2289450

Bottom Hole, Landing Point, and Drill Path information provided by operator listed, NOT Surveyed; distance between drill paths are calculated.

Operator: AMERICAN ENERGY-WOODFORD, LLC  
 Lease Name: McLAIN 31-18N-3E Well No.: 2WH  
 Topography & Vegetation: LOCATION FELL IN PASTURE LAND  
 Good Drill Site: YES  
 Best Accessibility to Location: FROM NORTH  
 Distance and Direction from Hwy Junction or Town: FROM THE INTERSECTION OF 104TH STREET AND SOUTH BRUSH CREEK ROAD WEST 0.04 MILES TO WELL PAD

**ELEVATION:**  
 902' GR. AT STAKE

Keystone Engineering and Land Surveying, Inc. CA #5877 Exp. 6/30/15 P.O. Box 436 Stillwater, OK. 74076 Ph. (405) 743-3355



**CERTIFICATE:** **W14-156**  
 I, Carey E. Harris, an Oklahoma Professional Land Surveyor and an authorized agent of Keystone Engineering and Land Surveying, Inc., does hereby certify that on July 3, 2014, the above described well location was surveyed on the ground as shown herein.  
Carey E. Harris 15 Dec 14  
 Carey E. Harris, Oklahoma Professional Land Surveyor No. 1719

(THE FOLLOWING INFORMATION WAS GATHERED USING A GPS RECEIVER. ACCURACY ±3 FOOT.)  
 GPS DATUM: NAD-83  
 LATITUDE: 35°59'57" N  
 LONGITUDE: 97°01'03" W  
 STATE PLANE COORDINATES  
 ZONE: OK NORTH  
 X: 2259159  
 Y: 365210