

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

API NUMBER: 119 24315

Approval Date: 12/11/2014
Expiration Date: 06/11/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 19N Rge: 2E County: PAYNE
SPOT LOCATION: NW NW NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 245 1570

Lease Name: STILLWATER CREEK WEST 25-19N-2E Well No: 1WH Well will be 245 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

COMMISSIONERS OF THE LAND OFFICE FOR THE OK
SCHOOL LAND TR.
120 N. ROBINSON, SUITE 1000 W
OKLAHOMA CITY OK 73102

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

Name	Depth	Name	Depth
1 WOODFORD	4405	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 619173

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201408387
201408386

Special Orders:

Total Depth: 10500

Ground Elevation: 881

Surface Casing: 380

Depth to base of Treatable Water-Bearing FM: 130

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: 14-28893

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 25 Twp 19N Rge 2E County PAYNE

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1950

Depth of Deviation: 4000

Radius of Turn: 985

Direction: 5

Total Length: 4953

Measured Total Depth: 10500

True Vertical Depth: 4430

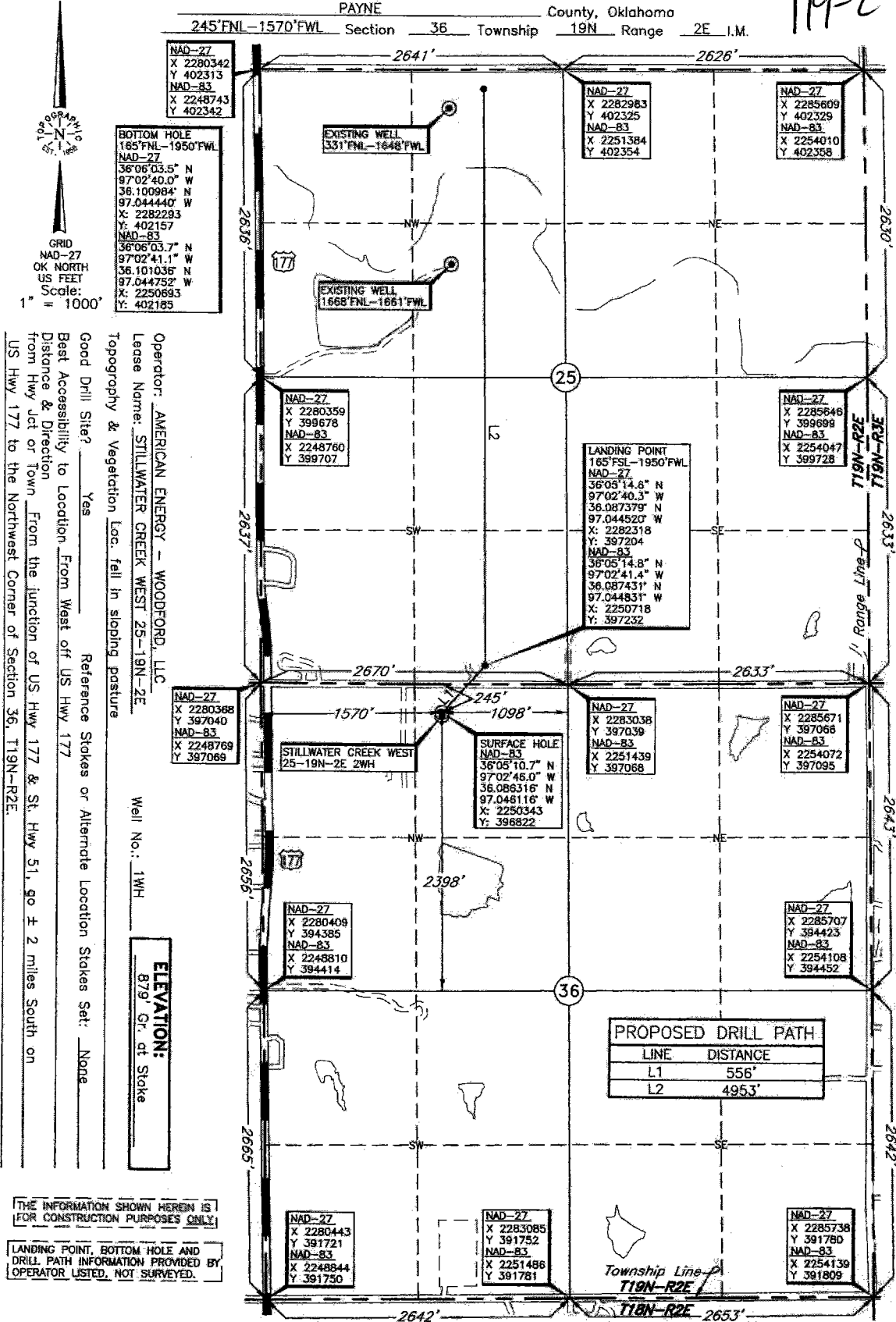
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category	Description
PENDING CD - 201408386	12/11/2014 - G91 - (I.O.) 25-19N-2E X619173 WDFD 2 WELLS NO OP. NAMED REC. 12-9-2014 (M. PORTER)
PENDING CD - 201408387	12/11/2014 - G91 - (I.O.) 25-19N-2E X619173 WDFD, OTHERS COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 990 FWL NO OP. NAMED REC. 12-9-2014 (M. PORTER)
PUBLIC WATER SUPPLY/WELLHEAD PROTECTION AREA	12/11/2014 - G71 - CINDY LOOPER CATERINGS - 1 PWS/WPA, N2 35-19N-2E
SPACING - 619173	12/11/2014 - G91 - (640)(HOR) 25-19N-2E EXT 605008 WDFD, OTHERS EST OTHER POE TO BHL NCT 330' FB (SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

119-24315

PAYNE County, Oklahoma
 245' FNL - 1570' FWL Section 36 Township 19N Range 2E I.M.



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

BOTTOM HOLE
 185' FNL - 1950' FWL
 NAD-27
 36°06'03.5" N
 97°02'40.0" W
 36.100984" N
 97.044440" W
 X: 2282293
 Y: 402157
 NAD-83
 36°06'03.7" N
 97°02'41.1" W
 36.101036" N
 97.044752" W
 X: 2250893
 Y: 402185

Operator: AMERICAN ENERGY - WOODFORD, LLC
 Lease Name: STILLWATER CREEK WEST 25-19N-2E
 Topography & Vegetation Loc. fall in sloping pasture
 Good Drill Site? Yes
 Reference Stakes or Alternate Location Stakes Set: None
 Best Accessibility to Location From West off US Hwy 177
 Distance & Direction From Hwy Jet or Town From the junction of US Hwy 177 & St. Hwy 51, go ± 2 miles South on US Hwy 177 to the Northwest Corner of Section 36, T19N-R2E.

Well No.: 1WH
ELEVATION:
 879' Gr. at Stake

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.
 LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

DATUM: NAD-27
 LAT: 36°05'10.5" N
 LONG: 97°02'44.9" W
 LAT: 36.086263" N
 LONG: 97.045805" W
 STATE PLANE
 COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 2281942
 Y: 396795

Date of Drawing: Dec. 10, 2014
 Invoice # 237231 Date Staked: Dec. 9, 2014 NMB

CERTIFICATE:
 I, Thomas L. Howell a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.
Thomas L. Howell
 Oklahoma Lic. No. 1433

