

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

API NUMBER: 119 24279

Approval Date: 09/26/2014
Expiration Date: 03/26/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 18N Rge: 1E County: PAYNE
SPOT LOCATION: SW SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 171 1232

Lease Name: J WILLIAMS 20-18N-1E Well No: 1MH Well will be 171 feet from nearest unit or lease boundary.

Operator Name: AMERICAN ENERGY-WOODFORD LLC Telephone: 4056085574; 4054188 OTC/OCC Number: 23358 0

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

JAMES O. WILLIAMS & RUTH A. WILLIAMS
9605 SOUTH MERIDIAN
COYLE OK 73027

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	4880	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 591538

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201406483
201406482

Special Orders:

Total Depth: 10500

Ground Elevation: 1100

Surface Casing: 640

Depth to base of Treatable Water-Bearing FM: 390

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: 14-28231
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 20 Twp 18N Rge 1E 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: 2320

Depth of Deviation: 4137

Radius of Turn: 1388

Direction: 360

Total Length: 4050

Measured Total Depth: 10500

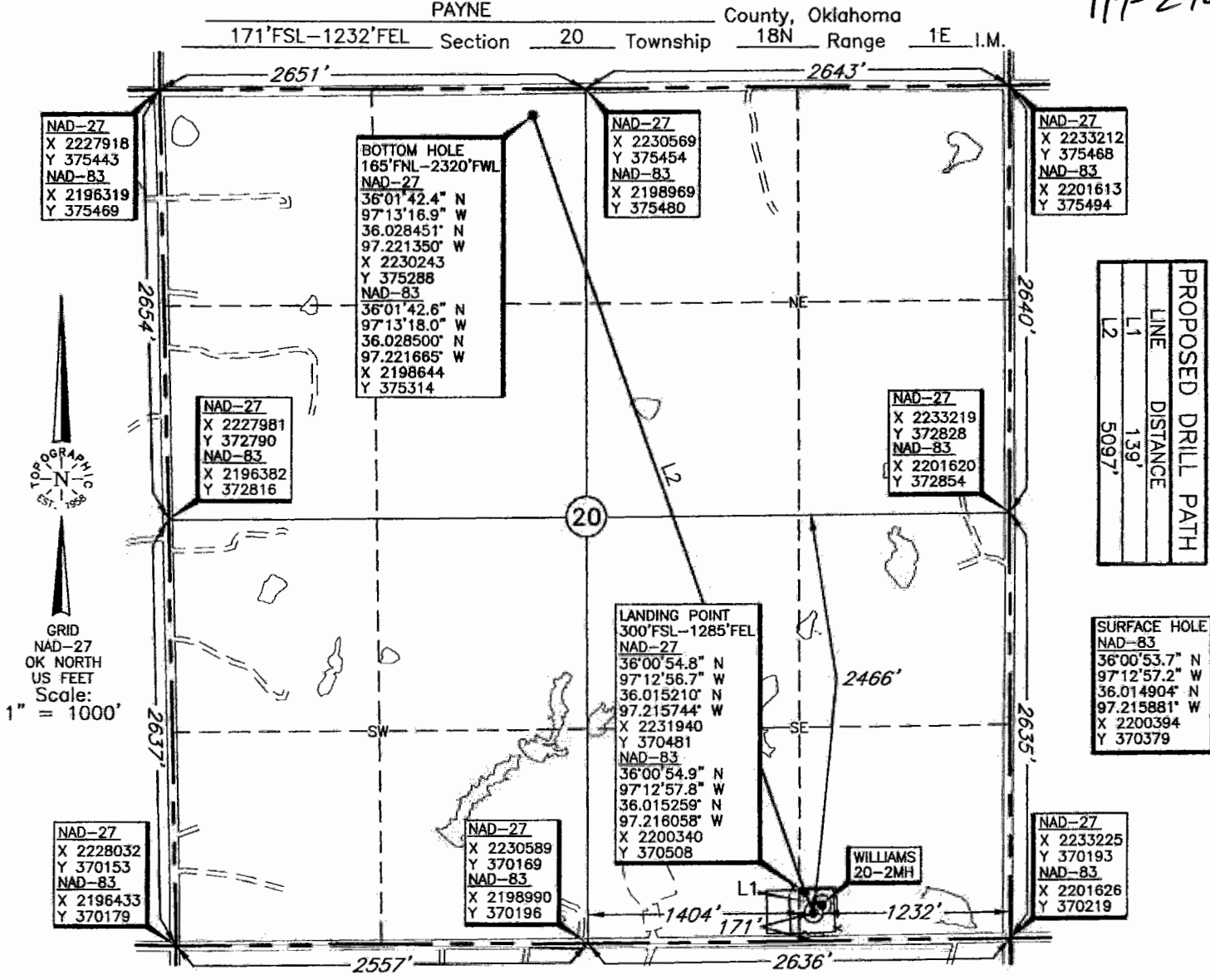
True Vertical Depth: 4968

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

Notes:

Category	Description
PENDING CD - 201406482	9/26/2014 - G72 - 20-18N-01E X 591538 MSSP 1 WELL NO OPER NAMED REC 9/23/2014 (STUCK)
PENDING CD - 201406483	9/26/2014 - G72 - 20-18N-01E (I.O.) X 591538 MSSP; COMP INT. NCT 165 FNL NCT 165 FSL NCT 1200 FEL/FWL; NO OPER NAMED; REC 9/23/2014 (STUCK)
SPACING - 591538	9/26/2014 - G72 - (640 HOR) 20-18N-1E DEL 209633 MSSP (NW4) DEL 250180/252437 MSSP (W2 NE4) DEL 346492/346726 MSSP (E2 NE4) DEL 394202 MSSP (SW4 & NE4 SE4 & S2 SE4) EST MSSP POE TO BHL: NCT 660' FB (SUPERCEDE EXISTING NON-DEVELOPED NON-HORIZONTAL SPACING UNITS) (COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS: SP. #394202 NW4 SE4)

119-24279



PROPOSED DRILL PATH	
LINE	DISTANCE
L1	139'
L2	5097'

SURFACE HOLE	
NAD-83	
36'00'53.7" N	
97'12'57.2" W	
36.014904" N	
97.215881" W	
X 2200394	
Y 370379	

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

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.

Operator: AMERICAN ENERGY - WOODFORD, LLC

Lease Name: J. WILLIAMS 20-18N-1E Well No.: 1MH

Topography & Vegetation Loc. fell on existing pad, ± 71' SW of existing Williams 20-2MH

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 I-35 & St. Hwy 51, go ± 7.5 miles East on St. Hwy 51, then go ± 6 miles South to the Southeast Corner of Section 20, T18N-R1E.

ELEVATION:
1100' Gr. on existing pad

DATUM: NAD-27
 LAT: 36'00'53.5" N
 LONG: 97'12'56.0" W
 LAT: 36.014854° N
 LONG: 97.215567° W
 STATE PLANE COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 2231993
 Y: 370353

Date of Drawing: Sept. 5, 2014
 Invoice # 229601 Date Staked: Aug. 28, 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