

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

API NUMBER: 119 24326

Approval Date: 01/22/2015

Expiration Date: 07/22/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 19N Rge: 1W

County: PAYNE

SPOT LOCATION: NW NE NW NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 317 728

Lease Name: J BODE 14-19N-1W

Well No: 2WH

Well will be 317 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

JOHN H. BODE, TRUSTEE OF THE KAREN S. BODE
TRUST NO. 1 DATED 5/1/2005
3312 N PERRY
ORLANDO OK 73073

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

Name	Depth	Name	Depth
1 WOODFORD	4819	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 619312

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201409200
201409202

Special Orders:

Total Depth: 10000

Ground Elevation: 981

Surface Casing: 475

Depth to base of Treatable Water-Bearing FM: 70

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: 14-29316
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - LAKE CARL BLACKWELL)

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 14 Twp 19N Rge 1W County PAYNE

Spot Location of End Point: SE SW SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1790

Depth of Deviation: 4150

Radius of Turn: 700

Direction: 160

Total Length: 4750

Measured Total Depth: 10000

True Vertical Depth: 4819

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

Notes:

Category	Description
PENDING CD - 201409200	1/22/2015 - G76 - (E.O.) 14-19N-1W X619312 WDFD COMPL. INT. NCT 165 FNL, NCT 165 FSL, NCT 1320 FWL AMERICAN ENERGY - WOODFORD, LLC REC. 1/16/2015 (NORRIS)
PENDING CD - 201409202	1/22/2015 - G76 - 14-19N-1W X619312 WDFD 2 WELLS NO OP. NAMED HEARING ON 2/3/2015
SPACING - 619312	1/22/2015 - G76 - (640)(HOR) 14-19N-1W EXT 612938 WDFD, OTHERS COMPL. INT. (OTHERS) NLT 660' FB, NCT 600' FWB COMPL. INT. (WDFD) NLT 330' FB, NCT 600' FWB (SUPERSEDE SP. ORDER #340093 MSNR, OTHER, N2 NE4; SUPERSEDE SP. ORDER #346754 MSNR, OTHER, S2 NE4)
SURFACE CASING	1/5/2015 - G71 - MIN. 225' PER ORDER 23028 & 39654

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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 119-24326

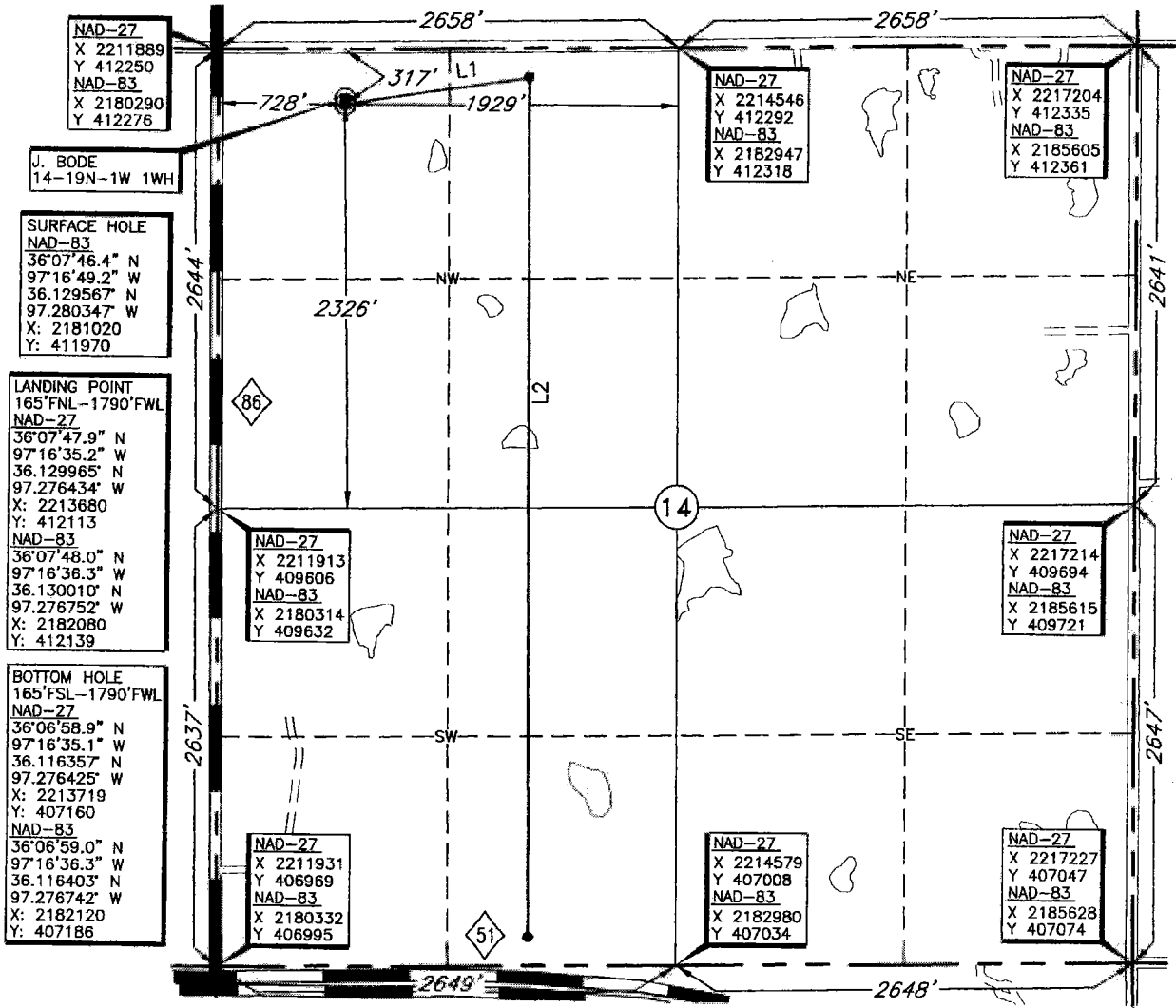
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293.

PAYNE

County, Oklahoma

317'FNL-728'FWL Section 14 Township 19N Range 1W 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.

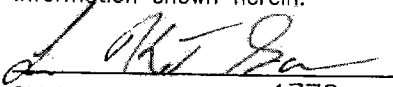
Operator: AMERICAN ENERGY - WOODFORD, LLC
 Lease Name: J. BODE 14-19N-1W

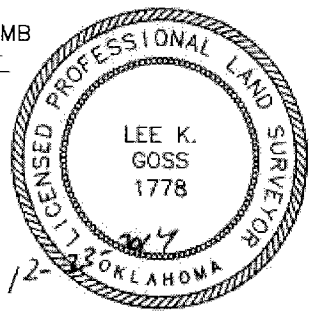
Well No.: 2WH
ELEVATION:
981' Gr. on existing pad

Topography & Vegetation Loc. fell on existing pad
 Good Drill Site? Yes Reference Stakes or Alternate Location None
 Best Accessibility to Location From North off county road
 Distance & Direction From the junction of St. Hwy 51 & I-35, go ± 3.5 miles East on St. Hwy 51, then ± 1 mile North to the Northwest Corner of Section 14, T19N-R1W.

DATUM: NAD-27
 LAT: 36°07'46.3"N
 LONG: 97°16'48.1"W
 LAT: 36.129522° N
 LONG: 97.280029° W
 STATE PLANE
 COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 2212619
 Y: 411944

Date of Drawing: Dec. 23, 2014
 Invoice # 235013A Date Staked: Dec. 17, 2014 NMB

CERTIFICATE:
 I, Lee K. Goss an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

 Oklahoma Reg. No. 1778



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.