

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

API NUMBER: 119 24289 A

Approval Date: 10/15/2014
Expiration Date: 04/15/2015

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION - CHANGE BHL, CHANGE
LOCATION EXCEPTION COMPLETION INTERVAL

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 19N Rge: 3E County: PAYNE
SPOT LOCATION: NW NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 200 1939

Lease Name: FRANK 31-19N-3E Well No: 1MH Well will be 200 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

FRANK W. & SANDRA J. ADAMS
2805 E 32ND ST
STILLWATER OK 74074

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	4228	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 608471 Location Exception Orders: 629916 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 10500 Ground Elevation: 862 Surface Casing: 450 Depth to base of Treatable Water-Bearing FM: 200

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? 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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28379
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 19N Rge 3E County PAYNE

Spot Location of End Point: SW SE SW SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 1660

Depth of Deviation: 3728

Radius of Turn: 1223

Direction: 179

Total Length: 4850

Measured Total Depth: 10500

True Vertical Depth: 4951

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

Notes:

Category

Description

LOCATION EXCEPTION - 629916

10/15/2014 - G91 - (I.O.) 31-19N-3E
X 608471 MSSP, OTHERS
X OTHERS
COMPL. INT. NCT 165 FSL, NCT 165 FNL, NCT 1320 FWL **
AMERICAN ENERGY-WOODFORD, LLC.
9-2-2014

** S/B NCT 1320 FEL; TO BE CORRECTED IN FINAL ORDER PER OPERATOR**

SPACING - 608471

10/15/2014 - G91 - (640)(HOR) 31-19N-3E
VAC 205997 MSSLM, OTHER
EXT 605008 MSSP, OTHERS
POE TO BHL NCT 660' FB
(SUPERCEDE EXISTING NON-DEVELOPED NON-HORIZONTAL DRILLING AND SPACING UNITS;
COEXIST PRODUCING NON-HORIZONTAL DRILLING AND SPACING UNITS)

119-24289

PROPOSED WELL LOCATION

PAYNE County, Oklahoma

200' FNL, 1939' FEL NE/4 Section 31, Township 19N, Range 3E I.M.

ROAD NOT CONSTRUCTED



SURFACE HOLE
200'FNL - 1939'FEL
NAD-83 (US Feet)
36°05'11"N
97°01'20"W
N:396964
E:2257390

LANDING POINT
165'FNL - 1900'FEL
NAD-83 (US Feet)
36°05'12"N
97°01'20"W
N:397000
E:2257430

BOTTOM HOLE
165'FSL - 1900'FEL
NAD-83 (US Feet)
36°04'23"N
97°01'21"W
N:392033
E:2257407

Scale: 1"=1000'

N:397090
E:2254055

N:397203
E:2259331

N:394453
E:2254078

N:394548
E:2259319

N:391811
E:2254110

N:391902
E:2259307

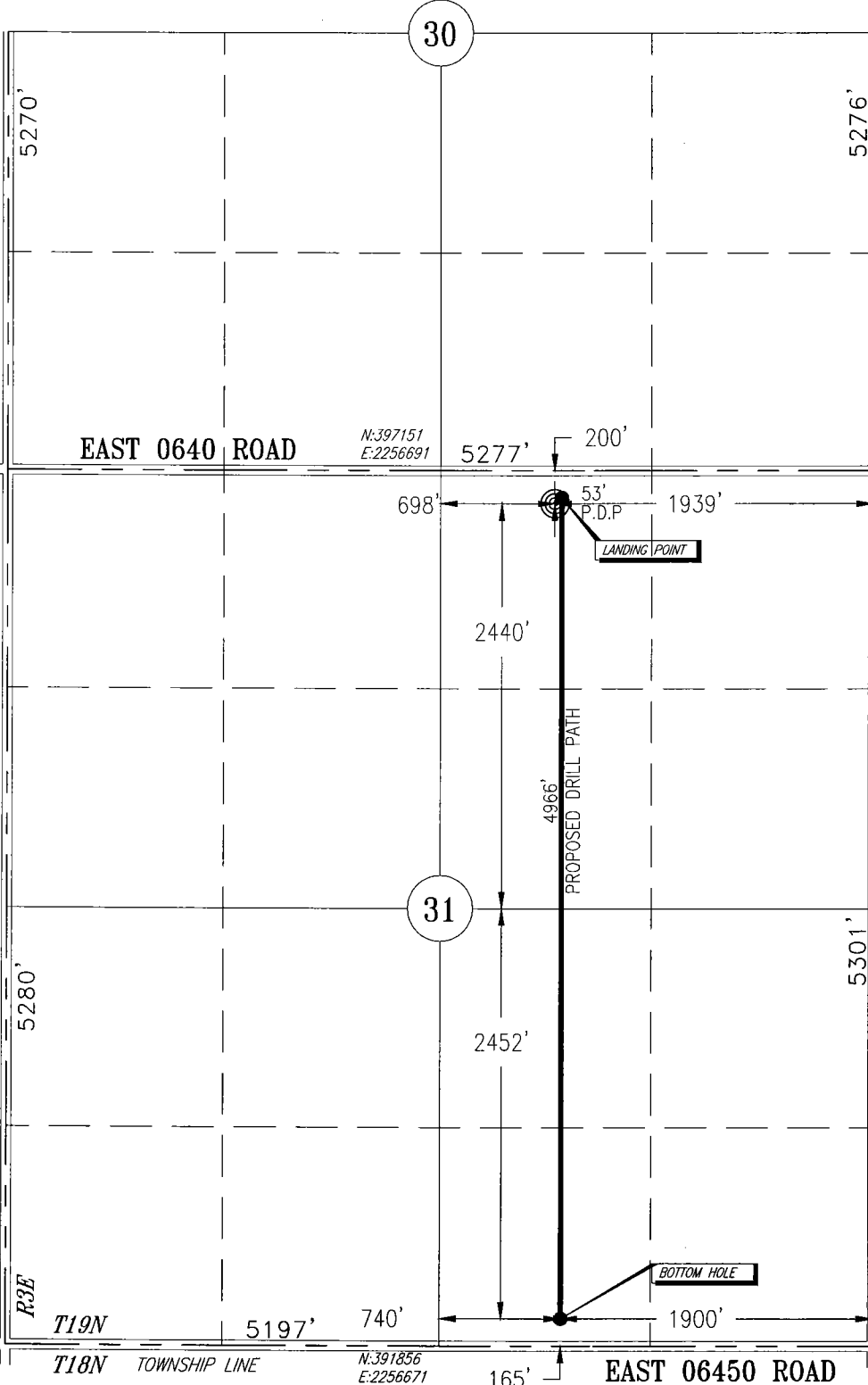
SOUTH JARDOT ROAD

SOUTH BRUSH CREEK ROAD

R2E RANGE LINE
R3E

T19N

T18N TOWNSHIP LINE



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: FRANK 31-19N-3E

Well No.: 1WH

ELEVATION:
862' GR. AT STAKE

Topography & Vegetation: LOCATION FELL IN PASTURE LAND

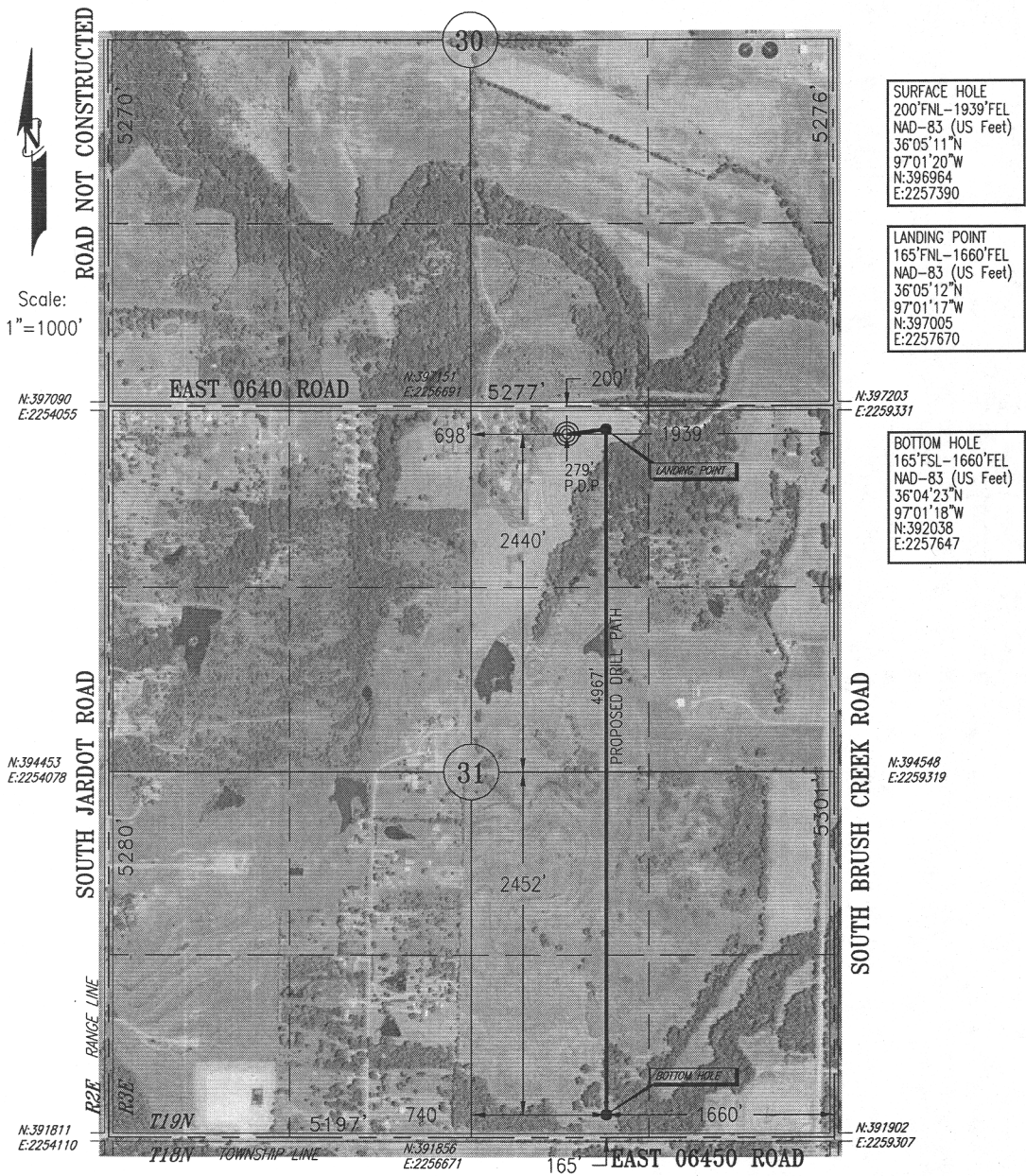
Good Drill Site: YES

Best Accessibilitv to Location: FROM NORTH

PROPOSED WELL LOCATION

119-24289

PAYNE County, Oklahoma
 200' FNL, 1939' FEL NE/4 Section 31, Township 19N, Range 3E I.M.



SURFACE HOLE
 200'FNL-1939'FEL
 NAD-83 (US Feet)
 36°05'11"N
 97°01'20"W
 N:396964
 E:2257390

LANDING POINT
 165'FNL-1660'FEL
 NAD-83 (US Feet)
 36°05'12"N
 97°01'17"W
 N:397005
 E:2257670

BOTTOM HOLE
 165'FSL-1660'FEL
 NAD-83 (US Feet)
 36°04'23"N
 97°01'18"W
 N:392038
 E:2257647

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: FRANK 31-19N-3E Well No.: 1MH
 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 EAST 0640 ROAD AND SOUTH BRUSH CREEK ROAD WEST 0.39 MILES TO WELL PAD

ELEVATION:
862' 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: W14-162
 REVISED: 10-17-14
 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 June 20, 2014, the above described well location was surveyed on the ground as shown herein.
CEH 170614
 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: 36°05'11" N
 LONGITUDE: 97°01'20" W
 STATE PLANE COORDINATES
 ZONE: OK NORTH
 X: 2257390
 Y: 396964