

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

API NUMBER: 119 24303

Approval Date: 11/06/2014
Expiration Date: 05/06/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 19N Rge: 3E County: PAYNE
SPOT LOCATION: SE SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 192 408

Lease Name: WEDEL 29-20-19N-3E Well No: 2WH Well will be 192 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

RANDY J. WEDEL & MARY A. WEDEL
901 SOUTH MAIN STREET
STILLWATER OK 74074

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

Name	Depth	Name	Depth
1 WOODFORD	4282	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 612294
613483

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201407638
201407639
201407640

Special Orders:

Total Depth: 15000 Ground Elevation: 850 **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 ALLUVIAL

Pit Location Formation: ALLUVIUM

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28404
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 19N Rge 3E County PAYNE

Spot Location of End Point: NW NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1600

Depth of Deviation: 3600

Radius of Turn: 315

Direction: 15

Total Length: 10230

Measured Total Depth: 14325

True Vertical Depth: 4282

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

Notes:

Category

Description

PENDING CD - 201407638

11/6/2014 - G91 - (I.O.)(640) 20 & 29-19N-3E
EST MULTIUNIT FOR HORIZONTAL
X612294 WDFD 29-19N-3E
X613483 WDFD 20-19N-3E
(MSSP, MSRH ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD)
50% 29-19N-3E
50% 20-19N-3E
AMERICAN ENERGY-WOODFORD, LLC.
REC. 11-4-2014 (P.PORTER)

PENDING CD - 201407639

11/6/2014 - G91 - 20 & 29-19N-3E
X613483 WDFD 20-19N-3E
X612294 WDFD 29-19N-3E
1 WELL
AMERICAN ENERGY-WOODFORD, LLC.
REC. 11-4-2014 (P. PORTER)

PENDING CD - 201407640

11/6/2014 - G91 - (I.O.) 20 & 29-19N-3E
X612294 WDFD, OTHERS 29-19N-3E
X613483 WDFD, OTHERS 20-19N-3E
1ST PERF NCT 165 FSL, NCT 990 FWL 29-19N-3E
LAST PERF NCT 0 FNL, NCT 990 FWL 29-19N-3E
1ST PERF NCT 0 FSL, NCT 990 FWL 20-19N-3E
LAST PERF NCT 165 FNL, NCT 990 FWL 20-19N-3E
AMERICAN ENERGY-WOODFORD, LLC.
REC. 11-4-2014 (P. PORTER)

SPACING - 612294

11/6/2014 - G91 - (640)(HOR) 29-19N-3E
VAC 271505 WDFD, OTHERS
EST WDFD, OTHERS
POE TO BHL NCT 330' FB
(SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

SPACING - 613483

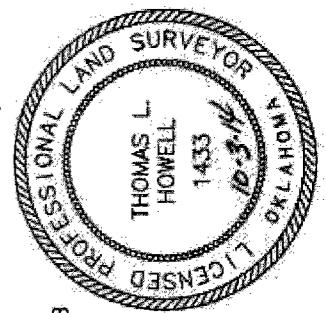
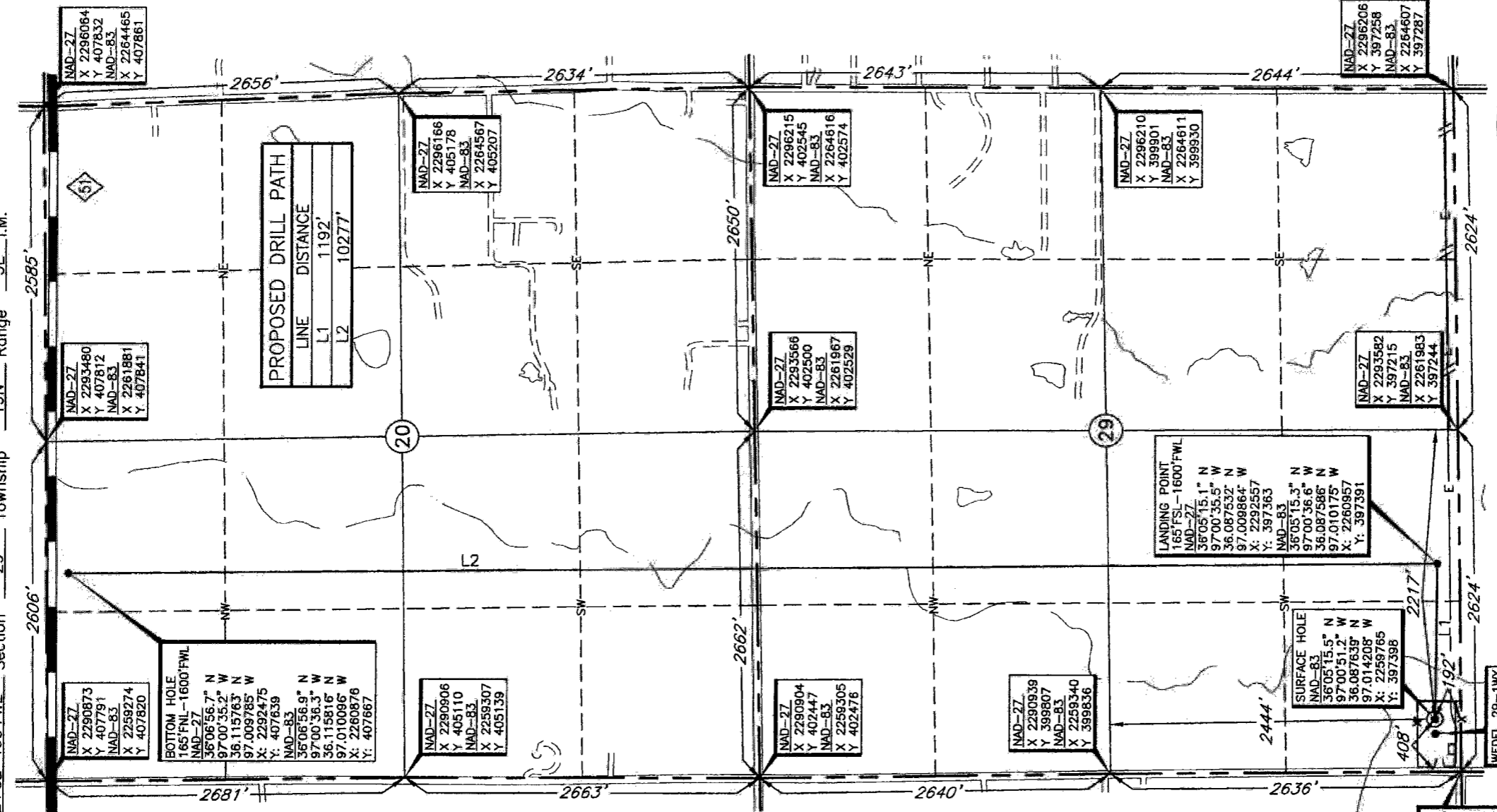
11/6/2014 - G91 - (640)(HOR) 20-19N-3E
VAC 271049 WDFD, OTHERS
VAC 271050 WDFD, OTHERS
EXT 606865 WDFD, OTHERS
EST OTHER
POE TO BHL NCT 330' FB
(SUPERCEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

119-24303

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73118 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
Certificate of Authorization No. 7293

PAYNE County, Oklahoma
192' FSL-408' FWL Section 29 Township 19N Range 3E I.M.



Invoice # 230829 Date of Drawing: Sept. 19, 2014 NMB
Date Staked: Sept. 18, 2014

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

THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY

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



Operator: AMERICAN ENERGY - WOODFORD, LLC

Lease Name: WEDEL 29-20-19N-3E

Well No.: 2WH

ELEVATION:
850' Gr. on existing pad

Topography & Vegetation Loc. fell on existing pad, ± 114' E. of Wedel 29-1WX

Good Drill Site? Yes

Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From West off county road

Distance & Direction

from Hwy Jct or Town From the junction of St. Hwy 51 & US Hwy 177, East of Stillwater, Oklahoma, go ± 2 miles

East on St. Hwy 51, then ± 2 miles South to the Southwest Corner of Section 29, T19N-R3E

DATUM: NAD-27
LAT: 36°05'15.3" N
LONG: 97°00'50.0" W
LAT: 36.087585° N
LONG: 97.013898° W
STATE PLANE
COORDINATES (US FEET):
ZONE: OK NORTH
X: 2291365
Y: 397370

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

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Approval Date:
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Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 19N Rgs: 3E County: PAYNE
 SPOT LOCATION: SE SW SW SW FEET FROM QUARTER SECTION LINES SOUTH WEST

Application for Intent to Drill

Lease Name: WEDEL 29-20-19N-3E Well No: 2WH Well will be 192 feet from nearest unit or lease boundary.

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Spacing Orders: 612294 613483 Location Exception Orders: _____ Increased Density Orders: _____

Pending CD Numbers: 201407638 (E.O.) Hearing 10-21-2014
 201407639 Hearing 11-24-2014
 201407640 (E.O.) Hearing 10-21-2014
 Special Orders: _____

Total Depth: 15000 Ground Elevation: 850 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

Approved Method for disposal of Drilling Fluids:

Pit 1
 Water Based, Closed, 5000-3000 ppm Chlorides

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28404

closed = steel pits

TEMPORARY AUTHORIZATION TO DRILL
 Expiration Date: 10/23/2014
 Signature: *Jennick Miskew*
 165:10-3-1-1

This permit does not address the right of entry or settlement of surface damages.
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 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 19N Rge 3E County RAYNE

Spot Location of End Point: NW NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1600

Depth of Deviation: 3600

Radius of Turn: 620

Direction: 360

Total Length: 91251

Measured Total Depth: 14325

True Vertical Depth: 4282

End Point Location from Lease,

Unit, or Property Line: 165

Application for Intent to Drill

Notes:

Category	Description
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Office of the Conservation Division as to when Surface Casing will be run.

000 00000 WEDEL 29-20-19N-3E 2WH