

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

API NUMBER: 119 24312

Approval Date: 12/04/2014
Expiration Date: 06/04/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 17N Rge: 4E County: PAYNE
SPOT LOCATION: SW NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 345 470

Lease Name: OBSIDIAN 33-18N-4E Well No: 1MH Well will be 345 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

WAYNE DODRILL
25580 BRIAR DRIVE
CLAREMORE OK 74019

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	3940	6
2			7
3			8
4			9
5			10

Spacing Orders: 596282

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201408191
201408192

Special Orders:

Total Depth: 10000

Ground Elevation: 880

Surface Casing: 900

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? 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: VANOSS

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-28397

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 33 Twp 18N Rge 4E County PAYNE

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 450

Depth of Deviation: 3650

Radius of Turn: 1006

Direction: 20

Total Length: 4770

Measured Total Depth: 10000

True Vertical Depth: 4656

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

Notes:

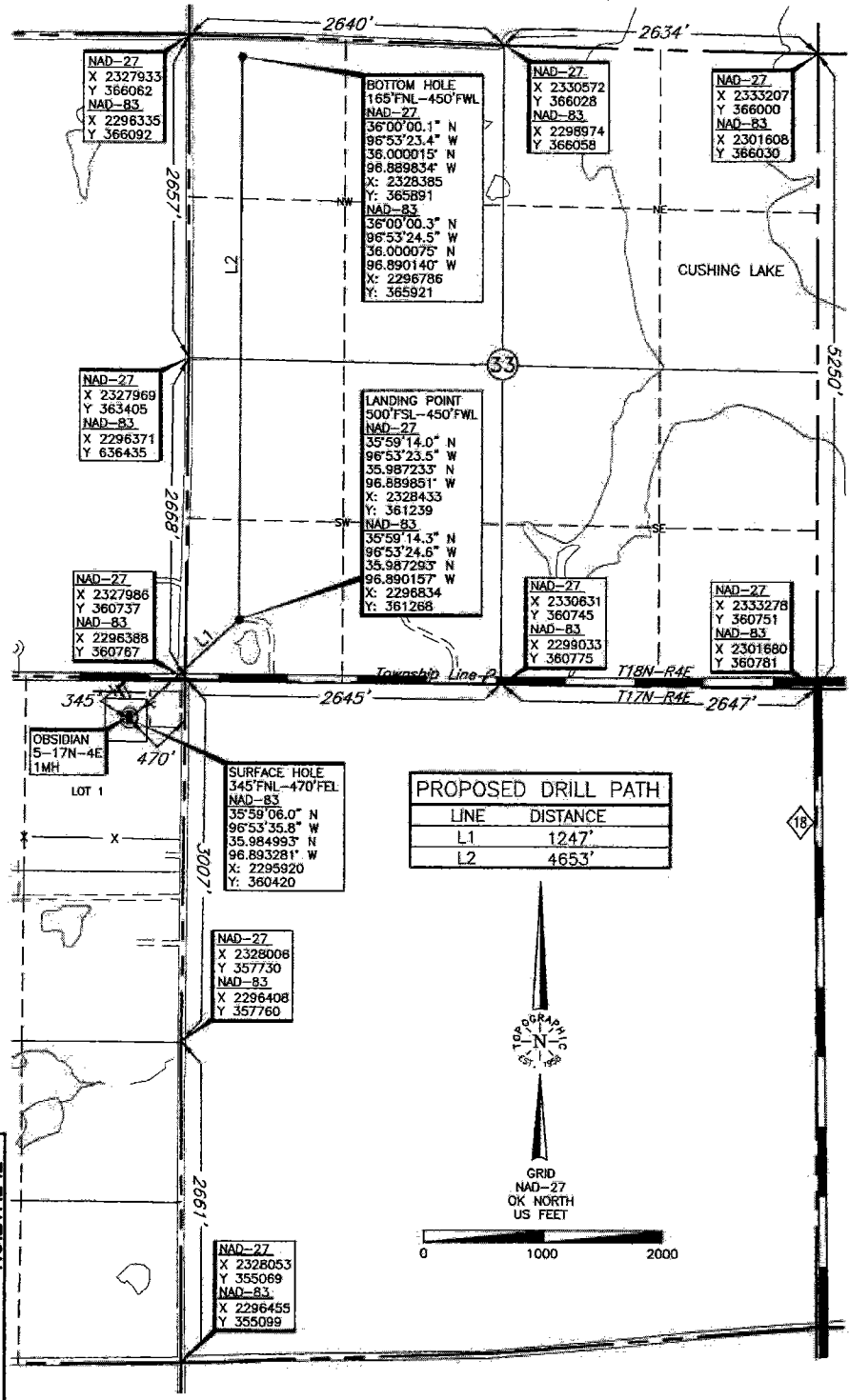
Category	Description
PENDING CD - 201408191	12/4/2014 - G91 - 33-18N-4E X596282 MSSP 1 WELL NO OP. NAMED REC. 12-2-2014 (NORRIS)
PENDING CD - 201408192	12/4/2014 - G91 - (I.O.) 33-18N-4E X596282 MSSP NO OP. NAMED 1ST PERF NCT 165 FSL, NCT 330 FWL LAST PERF NCT 165 FNL, NCT 330 FWL REC.12-2-2014 (NORRIS)
SPACING - 596282	12/4/2014 - G91 - (640)(HOR) 33-18N-4E EST MSSP, OTHERS POE TO BHL NCT 660' FB (SUPERCEDE NON-DEVELOP NON-HORIZONTAL SPACING UNITS)
SURFACE CASING	12/4/2014 - G71 - MIN. 750' REQUIRED PER CITY OF CUSHING

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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.

119-24312

PAYNE County, Oklahoma
 345'FNL-470'FEL Section 5 Township 17N Range 4E I.M.

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



Operator: AMERICAN ENERGY - WOODFORD, LLC
 Lease Name: OBSIDIAN 33-18N-4E
 Topography & Vegetation Loc. fell in pasture, ± 225' S. of E-W pipeline, ± 175' W. of N-S compressor site
 Well No.: 1MH
 ELEVATION: 879 Gr. at Stake

Good Drill Site? Yes No
 Best Accessibility to Location From North off St. Hwy 33
 Distance & Direction from Hwy Jet or Town. From the Junction of St. Hwy 33 E-W & St. Hwy 18 South, go ± 1 mile West on St. Hwy 33 to the Northeast Corner of Section 5, T17N-R4E.
 Reference Stakes or Alternate Location
 Stakes Set None

DATUM: NAD-27
 LAT: 35°59'05.8" N
 LONG: 96°53'34.7" W
 LAT: 35.984933° N
 LONG: 96.892975° W
 STATE PLANE COORDINATES (US FEET):
 ZONE: OK NORTH
 X: 2327519
 Y: 360391

Date of Drawing: Sept. 30, 2014
 Invoice # 230827A Date Staked: Sept. 25, 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

