

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

API NUMBER: 047 25025

Approval Date: 03/30/2015

Expiration Date: 09/30/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 17 Twp: 21N Rge: 8W

County: GARFIELD

SPOT LOCATION: ☐ SE ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 225 2450

Lease Name: BOBCAT

Well No: 2-17H

Well will be 225 feet from nearest unit or lease boundary.

Operator Name: U S ENERGY DEVELOPMENT CORPORATION

Telephone: 7166360401

OTC/OCC Number: 23402 0

U S ENERGY DEVELOPMENT CORPORATION
2350 N FOREST RD
GETZVILLE, NY 14068-1296

RADIX PARTNERS, LLC
P.O. BOX 3172
ENID OK 73702

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	7000	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 66203

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201501092
201501091

Special Orders:

Total Depth: 12330

Ground Elevation: 1203

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 450

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: 8000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? Y

Wellhead Protection Area? Y

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: BISON

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 15-29792

H. CLOSED SYSTEM=STEEL PITS (REQUIRED - CITY OF ENID, FIELD RULE ORDER # 287231)

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 17 Twp 21N Rge 8W County GARFIELD

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 2570

Depth of Deviation: 6550

Radius of Turn: 600

Direction: 5

Total Length: 4837

Measured Total Depth: 12330

True Vertical Depth: 7150

End Point Location from Lease,

Unit, or Property Line: 200

Notes:

Category

Description

BOTTOM-HOLE LOCATION

3/25/2015 - G75 - 200' FNL, 2570' FEL NE4 17-21N-8W PER SURVEY PLAT

PENDING CD - 201501091

3/24/2015 - G75 - (I.O.) 17-21N-8W
X66203 MSSLM
SHL NCT 200 FSL, NCT 2400 FWL
COMPL. INT. NCT 200 FSL, NCT 200 FNL, NCT 2400 FEL
BHL NCT 200 FNL, NCT 2400 FEL
NO OP. NAMED
REC 3-30-2015 (THOMAS)

PENDING CD - 201501092

3/24/2015 - G75 - 17-21N-8W
X66203 MSSLM
1 WELL
NO OP. NAMED
REC 3-30-2015 (THOMAS)

PUBLIC WATER SUPPLY WELLS

3/23/2015 - G71 - ENID, 3 PWS/WPA, SW4 17-21N-8W & NE4 20-21N-8W

SPACING - 66203

3/24/2015 - G75 - (640) 17-21N-8W
VAC 53277 MSSLM
EST MSSLM, OTHER

SURFACE LOCATION

3/25/2015 - G75 - 225' FSL, 2450' FWL SW4 17-21N-8W PER SURVEY PLAT;

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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.

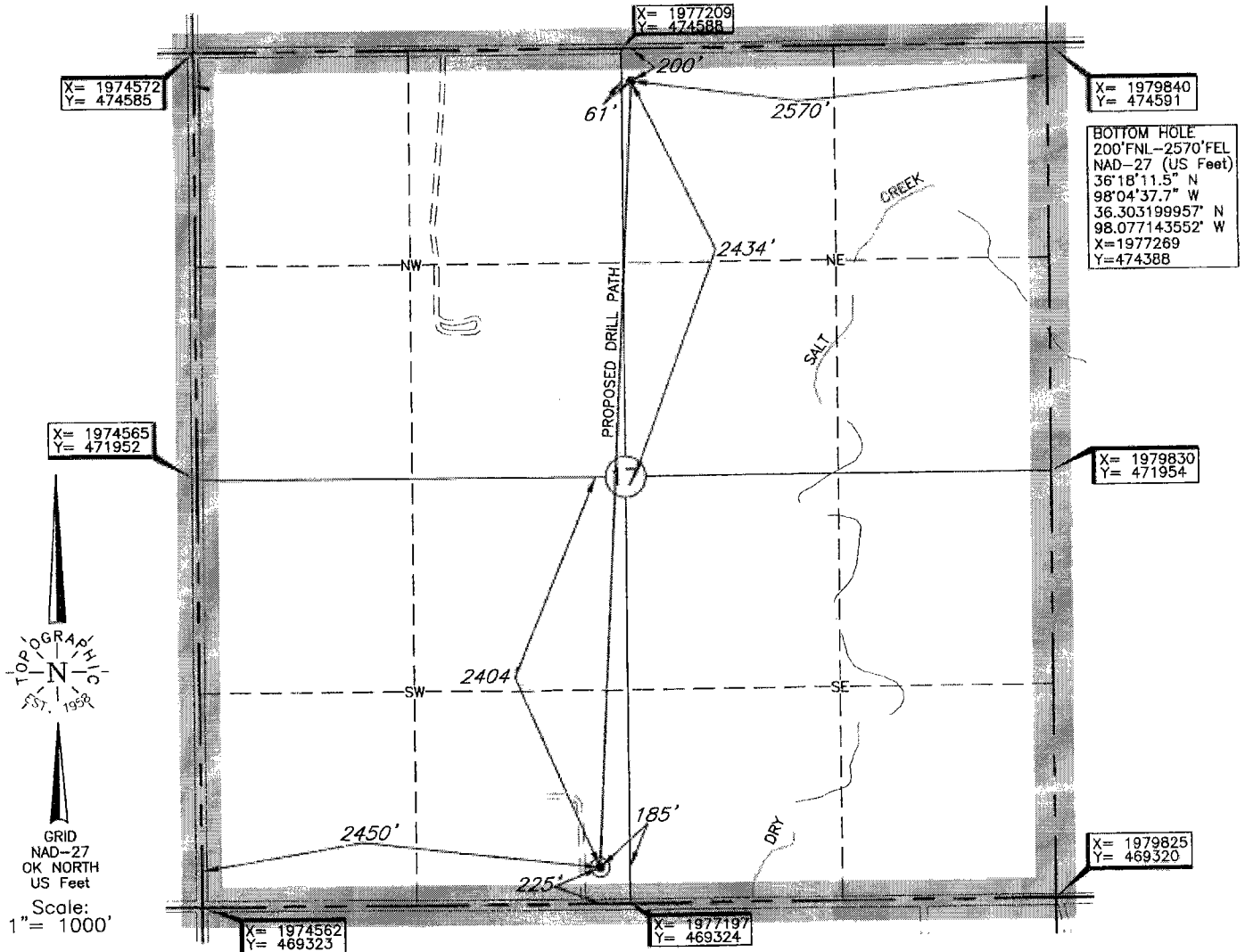
047 25025 BOBCAT 2-17H

API 047-25025

GARFIELD

County, Oklahoma

225'FSL - 2450'FWL Section 17 Township 21N Range 8W I.M.



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

Operator: US ENERGY DEVELOPMENT CORP.

Lease Name: BOBCAT

Well No.: 2-17H

ELEVATION:

1203' Gr. at Stake

Topography & Vegetation Loc. fell in wheat field

Good Drill Site? Yes Reference Stakes or Alternate Location
Stakes Set None

Best Accessibility to Location From South off county road

Distance & Direction
from Hwy Jct or Town From Drummond, OK, go ±3.0 mi. West, then ±1.0 m. South to
the SW Cor. of Sec 17-T21N-R8W.

Revision ☒ A Date of Drawing: Mar. 23, 2015

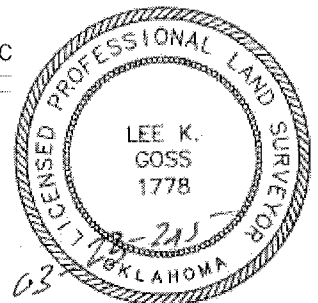
Invoice # 240834 Date Staked: Mar. 05, 2015

AC

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 Lic. No. 1778



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

DATUM: NAD-27
LAT: 36°17'23.7"N
LONG: 98°04'40.8"W
LAT: 36.289907264° N
LONG: 98.078000438° W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: 1977013
Y: 469549