

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

API NUMBER: 129 24031

Approval Date: 12/10/2014
Expiration Date: 06/10/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 16N Rge: 26W County: ROGER MILLS
SPOT LOCATION: SW SW SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 226 1026

Lease Name: MEEK 20-16-26 Well No: 1H Well will be 226 feet from nearest unit or lease boundary.

Operator Name: CHESAPEAKE OPERATING LLC Telephone: 4059358143; 4059358 OTC/OCC Number: 17441 0

CHESAPEAKE OPERATING LLC
PO BOX 18496
OKLAHOMA CITY, OK 73154-0496

JOYCE Y. MEEK
16835 E. 810 ROAD
DURHAM OK 73642

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

Name	Depth	Name	Depth
1 LANSING-KANSAS CITY	9617	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 621463

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201408244
201408243

Special Orders:

Total Depth: 14550 Ground Elevation: 2326 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 570

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 25000 Average: 8000

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: 1B

Liner required for Category: 1B

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

H. SEE MEMO

PERMIT NO: 14-29057

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.

PIT 2 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 160000
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: 3

Liner required for Category: 3

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 20 Twp 16N Rge 26W County ROGER MILLS

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 200

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 8999

Radius of Turn: 780

Direction: 4

Total Length: 4326

Measured Total Depth: 14550

True Vertical Depth: 9779

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Table with 2 columns: Category and Description. Rows include DEEP SURFACE CASING, MEMO, PENDING CD - 201408243, PENDING CD - 201408244, and SPACING - 621463.

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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

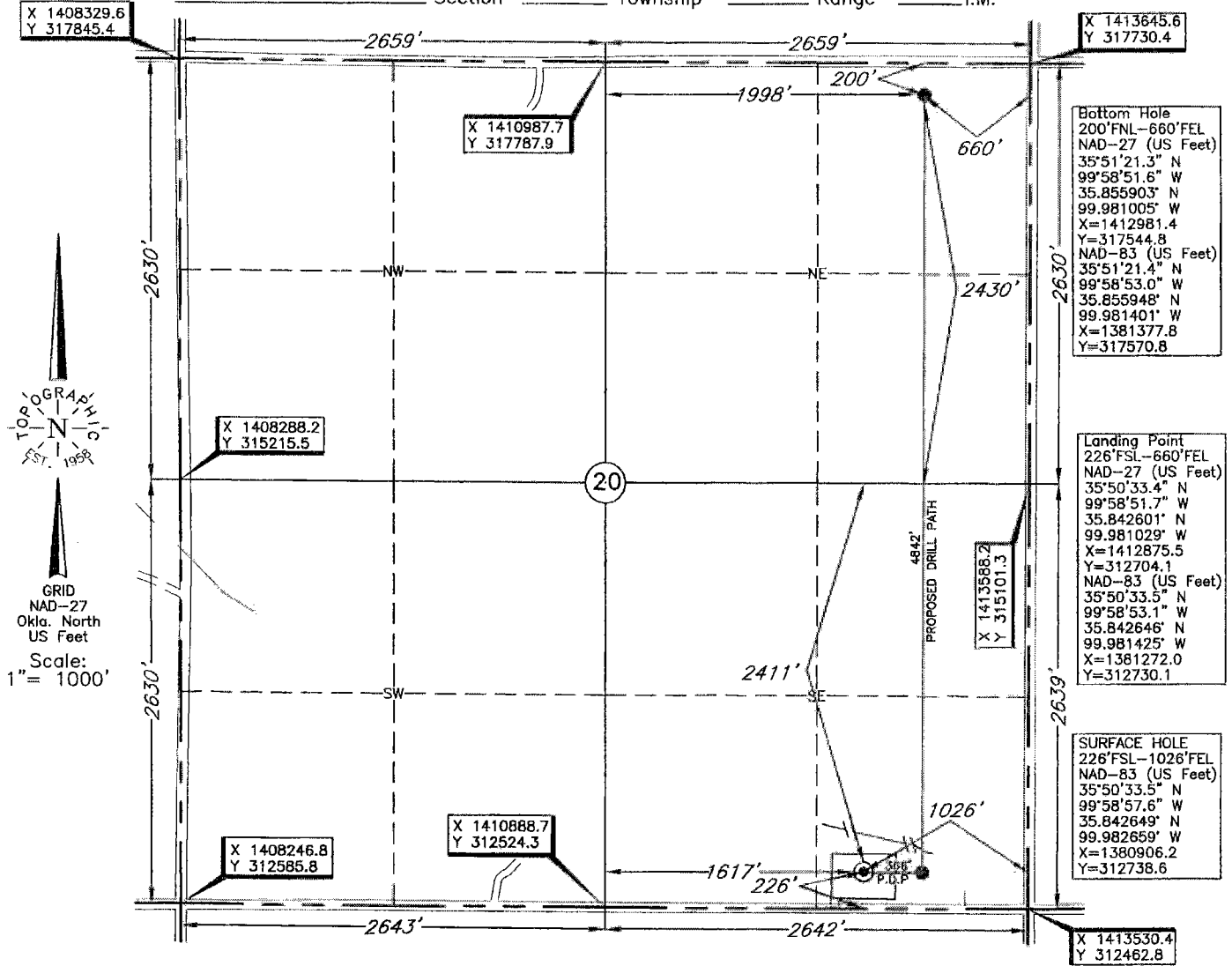
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293.

ROGER MILLS

County, Oklahoma

API 129-24031

226'FSL-1026'FEL Section 20 Township 16N Range 26W I.M.



Bottom Hole and Drill Path information provided by operator listed, NOT Surveyed.

NOTE:
 The information shown herein is for construction purposes ONLY.

Operator: CHESAPEAKE OPERATING, L.L.C.
 Lease Name: MEEK 20-16-26

ELEVATION:
 2326' Gr. at Stake

Topography & Vegetation Loc. fell in pasture, ±232' SW of NW-SE pipeline; ±185' North of buried telephone line, ±190' North of right-of-way fence

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

Best Accessibility to Location From South off county road

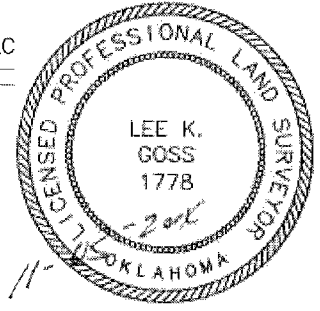
Distance & Direction from Hwy Jct or Town From the Jct. of St. Hwy. 33 & St. Hwy. 30, go ±3 miles West on St. Hwy. 33, then ±2 miles North to the SE Cor. of Sec. 20-T16N-R26W

DATUM: NAD-27
 LAT: 35°50'33.4"N
 LONG: 99°58'56.1"W
 LAT: 35.842604' N
 LONG: 99.982264' W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1412509.7
 Y: 312712.7

Date of Drawing: Nov. 2, 2014
 Invoice # 233470 Date Staked: Oct. 28, 2014 LC

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

[Signature]
 Oklahoma Lic. No. 1778



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