

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

API NUMBER: 093 25083

Approval Date: 07/13/2017

Expiration Date: 01/13/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 20N Rge: 12W

County: MAJOR

SPOT LOCATION:  NW  NE  NW  NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 225 710

Lease Name: BRAVO 28-20-12

Well No: 1HC

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

Operator Name: CHESAPEAKE OPERATING LLC

Telephone: 4059353425; 4059358

OTC/OCC Number: 17441 0

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

DANNY J. LAWRENCE  
901 HIGHLAND DR.  
FAIRVIEW OK 73737

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

Name	Depth	Name	Depth
1 MISSISSIPPI SOLID	8400	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 228797

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201703577  
201703578  
201703579  
201703580

Special Orders:

Total Depth: 18700

Ground Elevation: 1496

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 500

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: BLAINE

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 17-32703

H. SEE MEMO

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 3
Liner required for Category: 3
Pit Location is NON HSA
Pit Location Formation: BLAINE

HORIZONTAL HOLE 1

Sec 33 Twp 20N Rge 12W County BLAINE
Spot Location of End Point: SE SW SW SW
Feet From: SOUTH 1/4 Section Line: 50
Feet From: WEST 1/4 Section Line: 430
Depth of Deviation: 7987
Radius of Turn: 477
Direction: 183
Total Length: 9964
Measured Total Depth: 18700
True Vertical Depth: 8400
End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, INTERMEDIATE CASING, MEMO, and PENDING CD - 201703577.

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.

Category	Description
PENDING CD - 201703578	6/26/2017 - G75 - (E.O.) 28-20N-12W X228797 MSSSD COMPL. INT. NCT 150' FNL, NCT 0' FSL, NCT 330' FWL NO OP. NAMED REC 7-11-2017 (LEAVITT)
PENDING CD - 201703579	6/26/2017 - G75 - (E.O.) 33-20N-12W X228797 MSSSD 1 WELL NO OP. NAMED REC 7-11-2017 (LEAVITT)
PENDING CD - 201703580	6/26/2017 - G75 - (E.O.) 33-20N-12W X228797 MSSSD COMPL. INT. NCT 0' FNL, NCT 150' FSL, NCT 330' FWL NO OP. NAMED REC 7-11-2017 (LEAVITT)
SPACING - 228797	6/26/2017 - G75 - (640) 28 & 33-20N-12W EXT OTHERS EXT 83423/162490 MSSSD

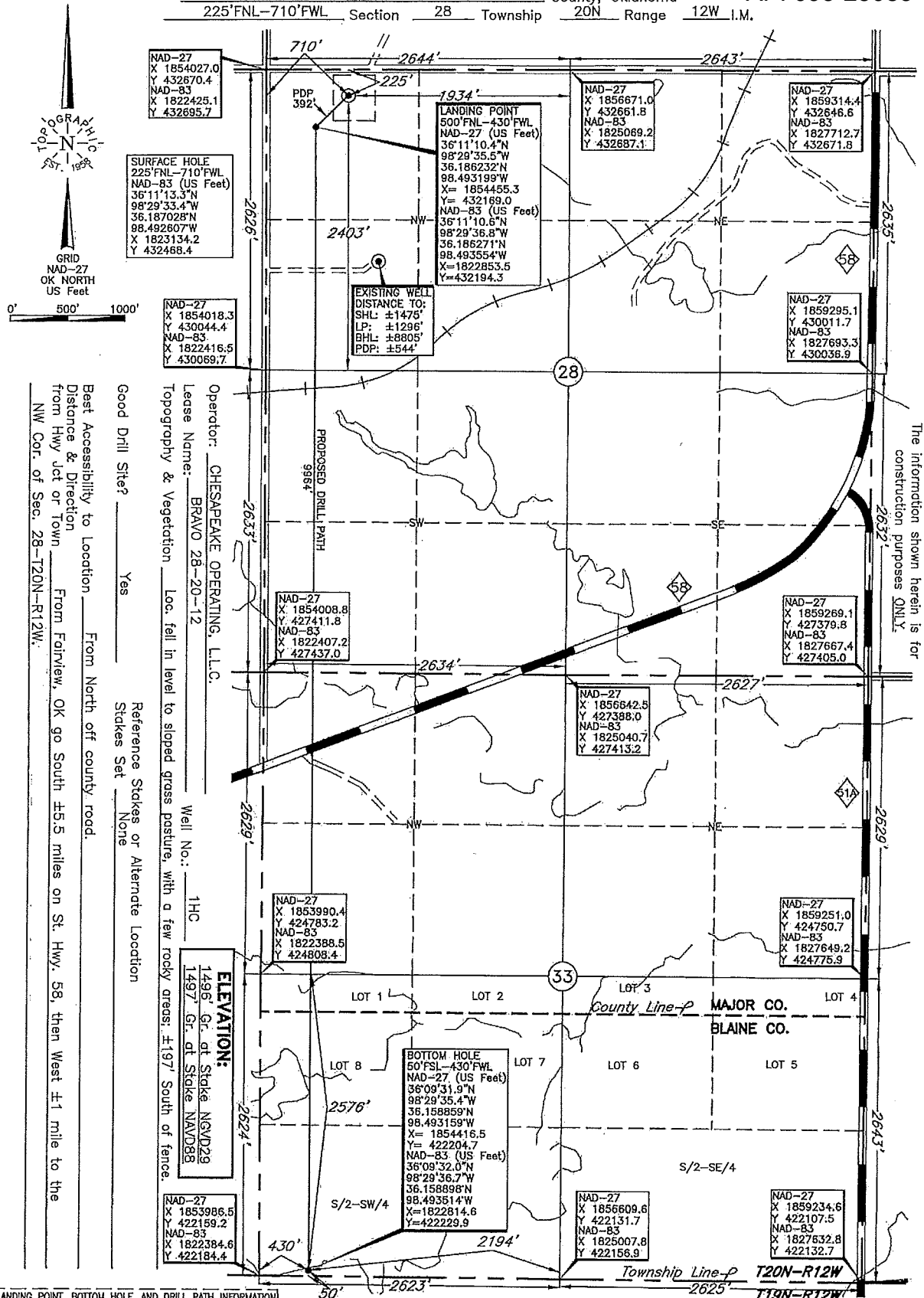
This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.  
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

MAJOR/BLAINE

County, Oklahoma

API 093-25083

225° FNL-710° FWL Section 28 Township 20N Range 12W I.M.



Operator: CHESAPEAKE OPERATING, L.L.C.  
 Lease Name: BRAVO 28-20-12  
 Topography & Vegetation: Loc. fall in level to sloped grass pasture, with a few rocky areas; ±197' South of fence.  
 Good Drill Site?  Yes  
 Reference Stakes or Alternate Location: Stakes Set  None  
 Best Accessibility to Location: From North off county road.  
 Distance & Direction: From Fairview, OK go South ±5.5 miles on St. Hwy. 58, then West ±1 mile to the NW Cor. of Sec. 28-T20N-R12W.  
 Well No.: 1HC  
 ELEVATION: 1496' Gr. at Stake N4VD29  
 1497' Gr. at Stake N4VD88

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

Date of Drawing: May 10, 2017  
 Invoice # 275763 Date Staked: May. 9, 2017 TR

DATUM: NAD-27  
 LAT: 36°11'13.2"N  
 LONG: 98°29'32.1"W  
 LAT: 36.186989°N  
 LONG: 98.492252°W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 1854736.0  
 Y: 432443.1

**CERTIFICATE:**

I, Thomas L. Howell, an 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

