API NUMBER: 045 23563

Oil & Gas

Horizontal Hole

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

Approval Date: 01/21/2015 07/21/2015 Expiration Date:

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 18N Rge: 25W County: ELLIS

FEET FROM QUARTER: SPOT LOCATION: NW FROM NORTH FROM EAST SE || NE NE SECTION LINES:

Lease Name: THELMA MAE 12-18-25 Well No: 1H Well will be 380 feet from nearest unit or lease boundary.

880

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

380

CHESAPEAKE OPERATING LLC

PO BOX 18496

OKLAHOMA CITY. OK 73154-0496 KENNETH K. & CHARLENE K. KNOWLES

HCR 63. BOX 6

**ARNETT** OK 73832

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

Name Depth Name Depth 1 **DOUGLAS** 5877 6 2 COTTAGE GROVE 8847 7 CLEVELAND 8887 8 3 MARMATON 9082 9 10 100886 Spacing Orders: Location Exception Orders: 634441 Increased Density Orders: 634440 596921

Pending CD Numbers: Special Orders:

Total Depth: 14000 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 480 Ground Elevation: 2312

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?

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) PERMIT NO: 15-29423

H. SEE MEMO

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**

Rge 25W County Sec 12 Twp 18N **ELLIS** SE SE Spot Location of End Point: SW SW Feet From: SOUTH 1/4 Section Line: 200 Feet From: EAST 1/4 Section Line: 1800

Depth of Deviation: 8455 Radius of Turn: 780 Direction: 191

Total Length: 4320

Measured Total Depth: 14000

True Vertical Depth: 9235

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

Notes:

Category Description

DEEP SURFACE CASING 1/13/2015 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS

OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR

SURFACE CASING

INCREASED DENSITY - 634440 1/20/2015 - G75 - 12-18N-25W

X100886 CLVD

1 WELL

CHESAPEAKE OP., L.L.C.

12-22-2014

LOCATION EXCEPTION - 634441 1/20/2015 - G75 - (I.O.) 12-18N-25W

X100886 DGLS, CGGV, CLVD

X596921 MRMN

COMPL. INT. NCT 330 FNL, NCT 330 FSL, NCT 560 FEL

CHESAPEAKE OP., L.L.C.

12-22-2014

MEMO 1/13/2015 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO

VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 100886 1/20/2015 - G75 - (640) 12-18N-25W

EXT 78094 DGLS

EXT 86890 CGGV, OTHERS EXT 82943/88225 CLVD

EXT OTHER EST OTHERS

Description Category

SPACING - 596921 1/20/2015 - G75 - (640)(HOR) 12-18N-25W

EXT 580292 MRMN

POE TO BHL NLT 660' FB (SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING UNITS; COEXIST WITH

PRODUCING NON-HORIZONTAL SPACING UNITS)