

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

API NUMBER: 045 23517

Approval Date: 09/09/2014

Expiration Date: 03/09/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 20N Rge: 25W

County: ELLIS

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 330 660

Lease Name: KCM 31-20-25

Well No: 1H

Well will be 330 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

LEAH M. BATTY
6220 E. MONTEREY WAY
SCOTTSDALE AZ 85251

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

	Name	Depth	Name	Depth
1	CLEVELAND	8446	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 576795

Location Exception Orders: 623468

Increased Density Orders: 609985

623164

Pending CD Numbers:

Special Orders:

Total Depth: 13550

Ground Elevation: 2493

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 600

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 BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 14-28257

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 located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

HORIZONTAL HOLE 1

Sec 31 Twp 20N Rge 25W County ELLIS

Spot Location of End Point: C N2 NW NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 7996

Radius of Turn: 780

Direction: 360

Total Length: 4329

Measured Total Depth: 13550

True Vertical Depth: 8776

End Point Location from Lease,
Unit, or Property Line: 330

Additional Surface Owner	Address	City, State, Zip
KRISTIN C. MCCARTOR	3808 N. 85TH PLACE	SCOTTSDALE, AZ 85251

Notes:

Category

Description

DEEP SURFACE CASING

9/3/2014 - G76 - 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 - 609985

9/9/2014 - G75 - 31-20N-25W
X576795 CLVD
2 WELLS
CHESAPEAKE OP., INC. (NOW CHESAPEAKE OP., LLC)
4-4-2013

INCREASED DENSITY - 623164

9/9/2014 - G75 - EXTEND 609985 UNTIL 4-4-2015

LOCATION EXCEPTION - 623468

9/9/2014 - G75 - (I.O.) 31-20N-25W
X576795 CLVD
COMPL. INT. NCT 330 FSL, NCT 330 FNL, NCT 660 FWL
CHESAPEAKE OP., INC. (NOW CHESAPEAKE OP., LLC)
4-2-2014

MEMO

9/3/2014 - G76 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 576795

9/9/2014 - G75 - (640) 31-20N-25W
EXT 185772 CLVD

This permit does not address the right of entry or settlement of surface damages.

045 23517 KCM 31-20-25 1H

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