

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

API NUMBER: 149 21713

Approval Date: 12/22/2014

Expiration Date: 06/22/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 11N Rge: 19W

County: WASHITA

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 280 2150

Lease Name: HULS 13-11-19

Well No: 2H

Well will be 280 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

HAYDEN AUSTIN
P.O. BOX 138
CANUTE OK 73626

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

Name	Depth	Name	Depth
1 DES MOINES	11500	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 131149

Location Exception Orders: 631894

Increased Density Orders: 632534

Pending CD Numbers:

Special Orders:

Total Depth: 17350

Ground Elevation: 1741

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 330

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: ELK CITY

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 14-29206

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: ELK CITY

HORIZONTAL HOLE 1

Sec 13 Twp 11N Rge 19W County WASHITA

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 1800

Depth of Deviation: 11814

Radius of Turn: 780

Direction: 356

Total Length: 4311

Measured Total Depth: 17350

True Vertical Depth: 12594

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

Additional Surface Owner	Address	City, State, Zip
JAMES MARLOW AUSTIN	1537 OAK TREE CIRCLE	WEATHERFORD, TX 76086

Notes:

Category

Description

DEEP SURFACE CASING

12/9/2014 - 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 - 632534

12/22/2014 - G75 - 13-11N-19W
X131149 DSMN
2 WELLS
CHESAPEAKE OP., L.L.C.
11-3-2014

LOCATION EXCEPTION - 631894

12/22/2014 - G75 - (I.O.) 13-11N-19W
X131149 DSMN, OTHERS
COMPL. INT. NCT 300 FSL, NCT 300 FNL, NCT 1320 FWL
CHESAPEAKE OP., L.L.C.
10-15-2014

MEMO

12/9/2014 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 131149

12/22/2014 - G75 - (640) 13-11N-19W
EST DSMN, OTHERS

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

149 21713 HULS 13-11-19 2H

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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.