

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

API NUMBER: 149 21711

Approval Date: 11/05/2014

Expiration Date: 05/05/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 11N Rge: 18W

County: WASHITA

SPOT LOCATION: ☐ SW ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 270 610

Lease Name: RODOLPH 21-11-18

Well No: 1H

Well will be 270 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

DON RODOLPH
P.O. BOX 277
CLINTON OK 73601

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

	Name	Depth	Name	Depth
1	VIRGILIAN	9370	6	
2	MISSOURIAN	10141	7	
3	DES MOINES	12045	8	
4			9	
5			10	

Spacing Orders: 582330

Location Exception Orders: 631373

Increased Density Orders: 631372

Pending CD Numbers:

Special Orders:

Total Depth: 18000

Ground Elevation: 1746

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: 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: 14-28742

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 21 Twp 11N Rge 18W County WASHITA

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 225

Feet From: EAST 1/4 Section Line: 415

Depth of Deviation: 11905

Radius of Turn: 780

Direction: 178

Total Length: 4870

Measured Total Depth: 18000

True Vertical Depth: 12685

End Point Location from Lease,
Unit, or Property Line: 225

Notes:

Category

Description

DEEP SURFACE CASING

10/27/2014 - 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 - 631372

11/5/2014 - G75 - 21-11N-18W
X582330 DSMN
1 WELL
CHESAPEAKE OP., L.L.C.
10-1-2014

LOCATION EXCEPTION - 631373

11/5/2014 - G75 - (I.O.) 21-11N-18W
X582330 VRGN, MSRN, DSMN
COMPL. INT. NCT 300 FNL, NCT 300 FSL, NCT 500 FEL
CHESAPEAKE OP., L.L.C.
10-1-2014

MEMO

10/27/2014 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 582330

11/5/2014 - G75 - (640) 21-11N-18W
VAC 181671 MOGW, DMSGW
VAC 244354 DGLS
EXT 564752 VRGN, MSRN
EXT 208748 DSMN

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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.

149 21711 RODOLPH 21-11-18 1H