

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

API NUMBER: 073 26223

Approval Date: 08/16/2018

Expiration Date: 02/16/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 16N Rge: 6W

County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ SE ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 345 2465

Lease Name: RUTH 15-16-6

Well No: 3HC

Well will be 345 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

JOHN F. EMMERICH  
21023 STATE HWY. 33  
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 OSWEGO	6604	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 654841  
672942

Location Exception Orders: 680421  
680420

Increased Density Orders: 680417  
680416

Pending CD Numbers: 201804757

Special Orders:

Total Depth: 17500

Ground Elevation: 1107

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 270

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: SALT PLAINS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34878  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

# HORIZONTAL HOLE 1

Sec 10 Twp 16N Rge 6W County KINGFISHER

Spot Location of End Point: E2 NE NW NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1440

Depth of Deviation: 6097

Radius of Turn: 900

Direction: 14

Total Length: 9989

Measured Total Depth: 17500

True Vertical Depth: 6743

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

## Notes:

Category	Description
DEEP SURFACE CASING	7/13/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	7/13/2018 - G71 - OCC 165:10-3-10 REQUIRES:  1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;  2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a> ; AND,  3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
INCREASED DENSITY - 680416	8/16/2018 - G75 - 10-16N-6W X654841 OSWG 2 WELLS CHESAPEAKE OP., L.L.C. 7-19-2018
INCREASED DENSITY - 680417	8/16/2018 - G75 - 15-16N-6W X672942 OSWG 2 WELLS CHESAPEAKE OP., L.L.C. 7-19-2018
LOCATION EXCEPTION - 680420	8/16/2018 - G75 - (I.O.) 10-16N-6W X654841 OSWG COMPL. INT. NCT 0' FSL, NCT 330' FNL, NCT 660' FEL CHESAPEAKE OP., L.L.C. 7-19-2018
LOCATION EXCEPTION - 680421	8/16/2018 - G75 - (I.O.) 15-16N-6W X672942 OSWG COMPL. INT. NCT 330' FSL, NCT 0' FNL, NCT 660' FEL CHESAPEAKE OP., L.L.C. 7-19-2018
PENDING CD - 201804757	8/16/2018 - G75 - (I.O.) 15 & 10-16N-6W EST MULTIUNIT HORIZONTAL WELL X672942 OSWG 15-16N-6W X654841 OSWG 10-16N-6W 50% 15-16N-6W 50% 10-16N-6W NO OP. NAMED REC 7-9-2018 (MILLER)

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073 26223 RUTH 15-16-6 3HC

Category	Description
SPACING - 654841	8/16/2018 - G75 - (640)(HOR) 10-16N-6W EST OSWG, OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 62116 OSWG)
SPACING - 672942	8/16/2018 - G75 - (640)(HOR) 15-16N-6W EXT 654841 OSWG, OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 62116 OSWG N2 & ORDER # 62116//124683 OSWG S2)

