API NUMBER: 073 26224

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: 08/16/2018
Expiration Date: 02/16/2019

PERMIT TO DRILL

		GFISHER	: KINO	County	6W	Rge:	16N	Twp:	15	Sec:	WELL LOCATION:
FROM WES	FR	SOUTH	FROM	FEET FROM QUARTER:		SW	E	S	SE	SE	SPOT LOCATION:
2465		315		SECTION LINES:							

Lease Name: RUTH 15-16-6 Well No: 2HC Well will be 315 feet from nearest unit or lease boundary.

Operator 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	Dep	th
1	OSWEGO	6604	6			
2			7			
3			8			
4			9			
5			10			
Spacing Orders:	654841 672942	Location Exception Orders:	680419		Increased Density Orders:	680417
			680418			680416

Pending CD Numbers: 201804725 Special Orders:

Total Depth: 17500 Ground Elevation: 1106 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

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: 18-34961

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

## **HORIZONTAL HOLE 1**

Sec 10 Twp 16N Rge 6W County KINGFISHER

Spot Location of End Point: W2 NE NE NW
Feet From: NORTH 1/4 Section Line: 330
Feet From: WEST 1/4 Section Line: 2300

Depth of Deviation: 6150
Radius of Turn: 900
Direction: 358
Total Length: 9936

Measured Total Depth: 17500

True Vertical Depth: 6741

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

Notes:

Category Description

DEEP SURFACE CASING 7/12/2018 - 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 7/12/2018 - 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:

OCCEWEB.COM/OG/OGFORMS.HTML; 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: FRACFOCUS.ORG

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 - 680418 8/16/2018 - G75 - (I.O.) 10-16N-6W

X654841 OSWG

COMPL. INT. NCT 0' FSL, NCT 330' FNL, NCT 660' FWL

CHESAPEAKE OP., L.L.C.

7-19-2018

LOCATION EXCEPTION - 680419 8/16/2018 - G75 - (I.O.) 15-16N-6W

X672942 OSWG

COMPL. INT. NCT 330' FSL, NCT 0' FNL, NCT 660' FWL

CHESAPEAKE OP., L.L.C.

7-19-2018

PENDING CD - 201804725 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)

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.

073 26224 RUTH 15-16-6 2HC

Category Description

SPACING - 672942

SPACING - 654841 8/16/2018 - G75 - (640)(HOR) 10-16N-6W

EST OSWG, OTHÈR

POE TO BHL NCT 660' FB

(COEXIST SP. ORDER # 62116 OSWG) 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)

