

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

API NUMBER: 073 25919

Approval Date: 02/06/2018

Expiration Date: 08/06/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 18N Rge: 6W

County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 310 1290

Lease Name: EARL 14-18-6

Well No: 4HC

Well will be 310 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

EARL EUGENE THIEMS TRUST  
P.O. BOX 115  
KINGFISHER OK 73750

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

Name	Depth	Name	Depth
1 OSWEGO	6225	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 645971  
663730  
670610

Location Exception Orders: 670555  
670557  
670435  
671193

Increased Density Orders: 670554  
670616

Pending CD Numbers:

Special Orders:

Total Depth: 17500

Ground Elevation: 1184

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 200

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33743  
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 11 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 250

Feet From: EAST 1/4 Section Line: 380

Depth of Deviation: 6164

Radius of Turn: 1000

Direction: 9

Total Length: 9765

Measured Total Depth: 17500

True Vertical Depth: 6390

End Point Location from Lease,  
Unit, or Property Line: 250

## Notes:

Category	Description
DEEP SURFACE CASING	1/26/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	1/26/2018 - 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 - 670554	2/6/2018 - G57 - 14-18N-6W X663730 OSWG 1 WELL CHESAPEAKE OPERATING, LLC. 11-29-2017
INCREASED DENSITY - 670616	2/6/2018 - G57 - 11-18N-6W X645971 OSWG 1 WELL CHESAPEAKE OPERATING, LLC. 11-30-2017
LOCATION EXCEPTION - 670435	2/6/2018 - G57 - (I.O.) 14-18N-6W X165:10-3-28(C)(2)(B) OSWG (EARL 14-18-6 4HC) MAY BE CLOSER THAN 600' TO MITCHELL 2 CHESAPEAKE OPERATING, LLC. 11-27-2017
LOCATION EXCEPTION - 670555	2/6/2018 - G57 - (I.O.) 14-18N-6W X663730 OSWG COMPL. INT. NCT 330' FSL, NCT 0' FNL, NCT 330' FEL CHESAPEAKE OPERATING, LLC. 11-29-2017
LOCATION EXCEPTION - 670557	2/6/2018 - G57 - (I.O.) 11-18N-6W X645971 OSWG COMPL. INT. NCT 0' FSL, NCT 330' FNL, NCT 330' FEL CHESAPEAKE OPERATING, LLC. 11-29-2017
LOCATION EXCEPTION - 671193	2/6/2018 - G57 - (I.O.) 11-18N-6W X165:10-3-28(C)(2)(B) OSWG (EARL 14-18-6 4HC) MAY BE CLOSER THAN 600' TO THE B. WEBER 1 CHESAPEAKE OPERATING, LLC. 12-14-2017

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

073 25919 EARL 14-18-6 4HC

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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.

Category	Description
SPACING - 645971	2/6/2018 - G57 - (640)(HOR) 11-18N-6W EXT 635144 OSWG, OTHER POE TO BHL NCT 660' FB (COEXIST WITH SP. ORDER #51905 OSWG)
SPACING - 663730	2/6/2018 - G57 - (640)(HOR) 14-18N-6W EXT 652843 OSWG, OTHER POE TO BHL NCT 660' FB (COEXIST WITH SP. ORDER #51905 OSWG)
SPACING - 670610	2/6/2018 - G57 - (I.O.) 14 & 11-18N-6W EST MULTIUNIT HORIZONTAL WELL X645971 OSWG 11-18N-6W X663730 OSWG 14-18N-6W 50% 14-18N-6W 50% 11-18N-6W CHESAPEAKE OPERATING, LLC. 11-30-2017

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