

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

API NUMBER: 073 25679

Approval Date: 06/19/2017  
Expiration Date: 12/19/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: KINGFISHER

SPOT LOCATION:  SW  SW  SW  SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 315 2485

Lease Name: EARL 14-18-6

Well No: 2H

Well will be 315 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  
17942 E. 710 RD.  
DOVER OK 73734

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

	Name	Depth	Name	Depth
1	BIG LIME	6235	6	
2	OSWEGO	6354	7	
3			8	
4			9	
5			10	

Spacing Orders: 663730

Location Exception Orders: 664426

Increased Density Orders: 664345

Pending CD Numbers:

Special Orders:

Total Depth: 11750

Ground Elevation: 1181

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 190

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: 17-32692

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 14 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: C N2 N2 N2

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 6028

Radius of Turn: 750

Direction: 358

Total Length: 4544

Measured Total Depth: 11750

True Vertical Depth: 6401

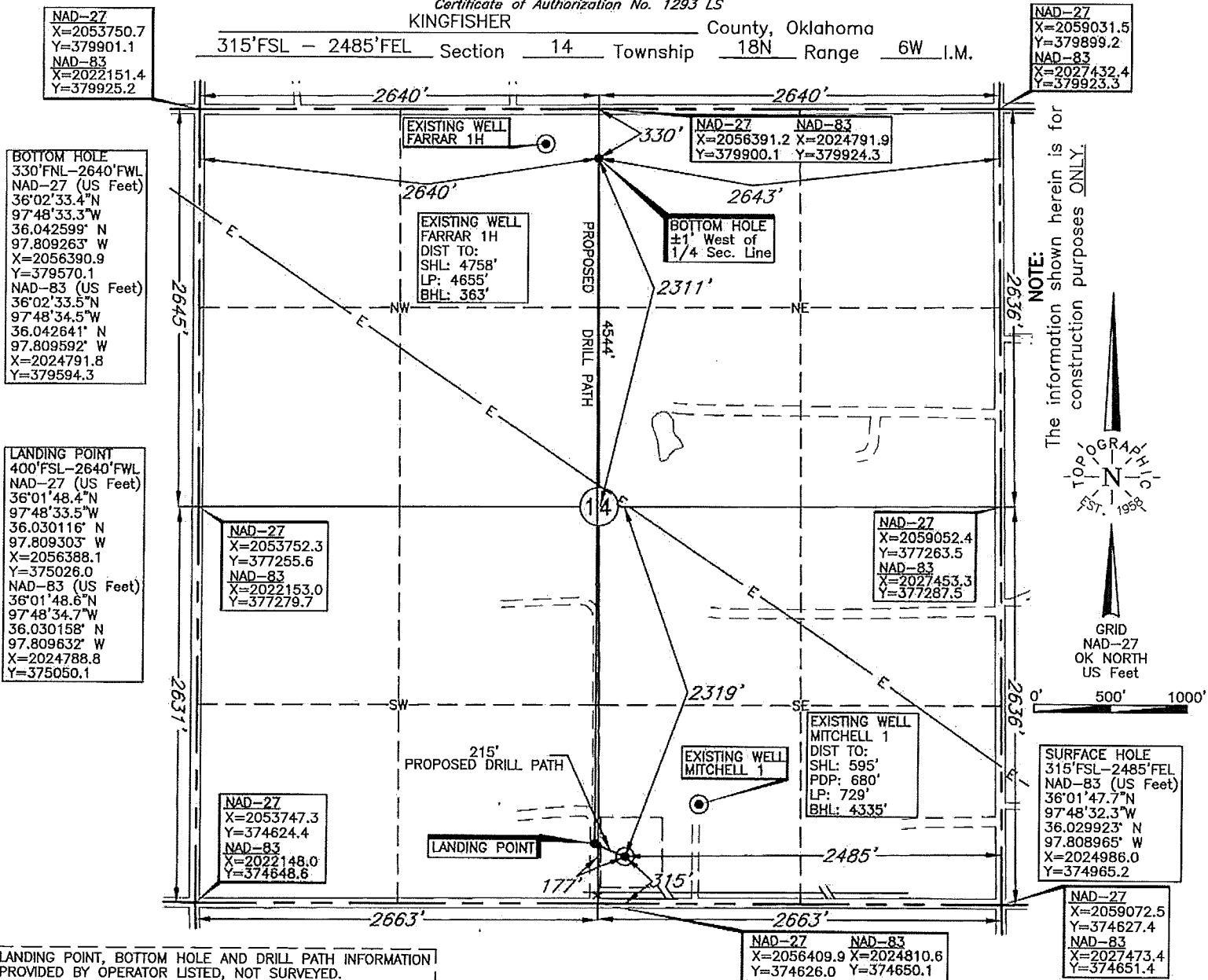
End Point Location from Lease,  
Unit, or Property Line: 330

Notes:

Category	Description
DEEP SURFACE CASING	6/14/2017 - 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	6/14/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK <a href="http://fracfocus.org/">HTTP://FRACFOCUS.ORG/</a> WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE
INCREASED DENSITY - 664345	6/19/2017 - G75 - (I.O.) 14-18N-6W X663730 BGLM, OSWG 2 WELLS CHESAPEAKE OP., L.L.C. 6-2-2017
LOCATION EXCEPTION - 664426	6/19/2017 - G75 - (I.O.) 14-18N-6W X663730 BGLM, OSWG COMPL. INT. NCT 330' FSL, NCT 330' FNL, NCT 1320' FEL & FWL CHESAPEAKE OP., L.L.C. 6-5-2017
SPACING - 663730	6/19/2017 - G75 - (640)(HOR) 14-18N-6W EXT 652843 BGLM, OSWG POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 51905 OSWG & ORDER # 54396 BGLM)

KINGFISHER County, Oklahoma

315'FSL - 2485'FEL Section 14 Township 18N Range 6W I.M.



**NOTE:**  
The information shown herein is for construction purposes ONLY.

LANDING POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

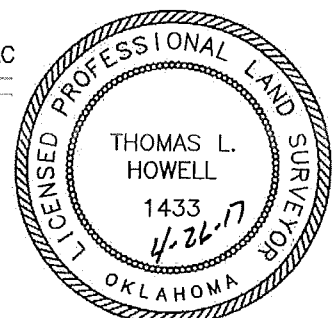
Operator: CHESAPEAKE OPERATING, L.L.C.  
 Lease Name: EARL 14-18-6 Well No.: 2H  
 Topography & Vegetation Loc. fell in pasture, ±235' North of possible E-W pipeline  
 Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None  
 Best Accessibility to Location From South off county road  
 Distance & Direction From Hennessey, OK, go ±5.5 mi. East on St. Hwy. 51, then ±6.0 mi. South to the SE Cor. of Sec. 14-T18N-R6W

**ELEVATION:**  
 1181' Gr. at Stake NAVD88  
 1181' Gr. at Stake NGVD29

**DATUM:** NAD-27  
**LAT:** 36°01'47.6"N  
**LONG:** 97°48'31.1"W  
**LAT:** 36.029881° N  
**LONG:** 97.808636° W  
**STATE PLANE COORDINATES: (US Feet)**  
**ZONE:** OK NORTH  
**X:** 2056585.3  
**Y:** 374941.1

Date of Drawing: Apr. 20, 2017  
 Invoice # 269804A Date Staked: Apr. 17, 2017 AC

**CERTIFICATE:**  
 I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein  
Thomas L. Howell  
 Oklahoma Lic. No. 1433



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.