

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

API NUMBER: 073 25568

Approval Date: 03/22/2017
Expiration Date: 09/22/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 18N Rge: 6W

County: KINGFISHER

SPOT LOCATION: NW SW SE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 390 1360

Lease Name: CURTIS 29-18-6

Well No: 2H

Well will be 390 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

KEVIN MOTT
2417 ASHLEY DR
OKLAHOMA CITY OK 73120

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

Name	Depth	Name	Depth
1 BIG LIME	6347	6	
2 OSWEGO	6361	7	
3		8	
4		9	
5		10	

Spacing Orders: 647840

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201700395
201700396

Special Orders:

Total Depth: 11750

Ground Elevation: 1107

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 170

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 17-32264

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 29 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: C S2 S2 S2

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 2640

Depth of Deviation: 6163

Radius of Turn: 377

Direction: 167

Total Length: 4995

Measured Total Depth: 11750

True Vertical Depth: 6524

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

Notes:

Category	Description
DEEP SURFACE CASING	3/14/2017 - 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	3/14/2017 - 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 HTTP://FRACFOCUS.ORG/ 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
PENDING CD - 201700395	3/16/2017 - G60 - 29-18N-6W X647840 OSWG 2 WELLS NO OP. NAMED REC. 3/21/17 (P. PORTER)
PENDING CD - 201700396	3/16/2017 - G60 - (I.O.) 29-18N-6W X647840 BGLM, OSWG COMPL. INT. NCT 330' FSL, NCT 330' FNL, NCT 1320 FEL OR FWL NO OP. NAMED REC. 3/21/17 (P. PORTER)
SPACING - 647840	3/16/2017 - G60 - (640)(HOR) 29-18N-6W EXT 630826 BGLM, OSWG COMPL. INT. NCT 660' FB (COEXIST WITH SP. ORDER 53420 OSWG AND SP. ORDER 58471 BGLM)

3507325568

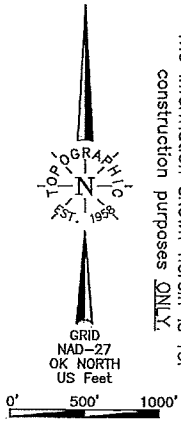
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

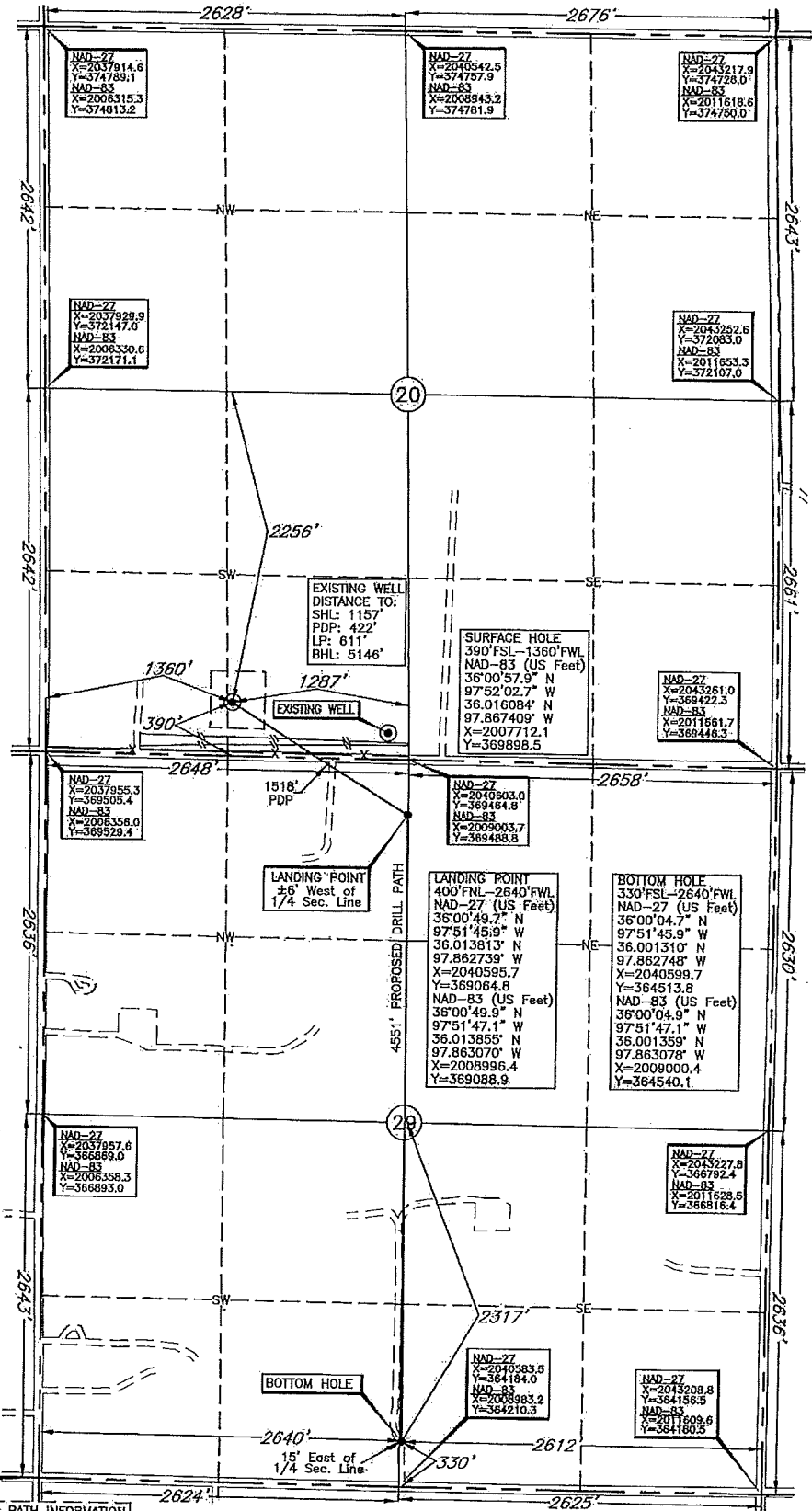
KINGFISHER

County, Oklahoma

390° FSL - 1360° FWL Section 20 Township 18N Range 6W I.M.



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



Operator: CHESAPEAKE OPERATING, L.L.C.
 Lease Name: CURTIS 29-18-6
 Topography & Vegetation: Loc. fall in grass pasture, ± 251' North of pipeline disturbed area
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From South off county road
 Distance & Direction: From Dover, OK, go ± 2.5 mi. North on US Hwy. 81, then ± 2.0 mi. East to the SW Cor. of Sec. 20-18N-R6W
 Well No.: 2H
ELEVATION:
 1108' Gr. at Stake NAVD88
 1107' Gr. at Stake NGVD29

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

DATUM: NAD-27
 LAT: 36°00'57.8"N
 LONG: 97°52'01.5"W
 LAT: 36.016042° N
 LONG: 97.867078° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 2039311.4
 Y: 369874.5

Date of Drawing: Feb. 21, 2017
 Invoice # 269520 Date Staked: Feb. 16, 2017 AC

CERTIFICATE:

I, Lee K. Goss, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Oklahoma Lic. No. 1778

