

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

API NUMBER: 073 25526

Approval Date: 02/17/2017
Expiration Date: 08/17/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 18N Rge: 6W County: KINGFISHER
SPOT LOCATION: SE SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 260 1040

Lease Name: VIVIAN 13-18-6 Well No: 1H Well will be 260 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

VIVIAN E. VINCENT
405 HILL DRIVE
KINGFISHER OK 73750

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

	Name	Depth	Name	Depth
1	BIG LIME	6176	6	
2	OSWEGO	6194	7	
3			8	
4			9	
5			10	

Spacing Orders: 652843 Location Exception Orders: 656724 Increased Density Orders:

Pending CD Numbers: Special Orders:

Total Depth: 12000 Ground Elevation: 1182 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 220

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: 17-32176
- 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 13 Twp 18N Rge 6W County KINGFISHER

Spot Location of End Point: C N2 N2 NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1320

Depth of Deviation: 5983

Radius of Turn: 775

Direction: 3

Total Length: 4800

Measured Total Depth: 12000

True Vertical Depth: 6344

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

Notes:

Category	Description
DEEP SURFACE CASING	2/16/2017 - 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	2/16/2017 - 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
LOCATION EXCEPTION - 656724	2/17/2017 - G64 - (I.O.) 13-18N-6W X652843 BGLM, OSWG COMPL. INT. NCT 330' FNL, NCT 330' FSL, NCT 1320' FWL CHESAPEAKE OPERATING, L.L.C. 10-7-2016
SPACING - 652843	2/17/2017 - G64 - (640)(HOR) 13-18N-6W EXT 653144 BGLM, OSWG POE TO BHL NCT 660' FB (COEXIST SP. ORDER 54396 BGLM; ORDER 51905 OSWG)

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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.

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

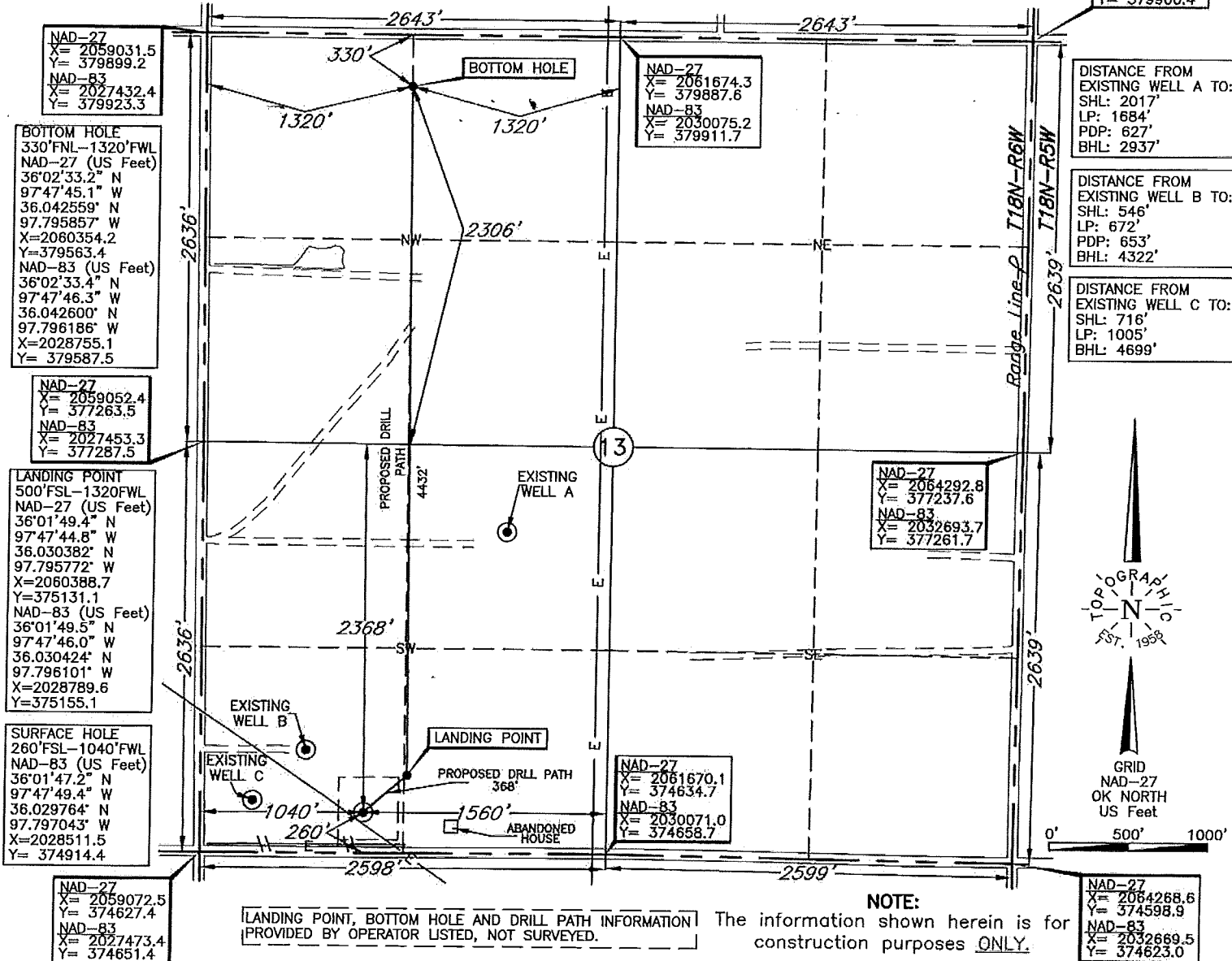
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. 1293 LS

KINGFISHER

County, Oklahoma

260'FSL - 1040'FWL Section 13 Township 18N Range 6W I.M.

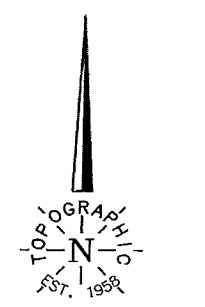
NAD-27
 X= 2064317.1
 Y= 379876.4
 NAD-83
 X= 2032718.0
 Y= 379900.4



DISTANCE FROM EXISTING WELL A TO:
 SHL: 2017'
 LP: 1684'
 PDP: 627'
 BHL: 2937'

DISTANCE FROM EXISTING WELL B TO:
 SHL: 546'
 LP: 672'
 PDP: 653'
 BHL: 4322'

DISTANCE FROM EXISTING WELL C TO:
 SHL: 716'
 LP: 1005'
 BHL: 4699'



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

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

ELEVATION:
 1182' Gr. at Stake NAVD88
 1182' Gr. at Stake NGVD29

Operator: CHESAPEAKE OPERATING, L.L.C.
 Lease Name: VIVIAN 13-18-6

Well No.: 1H

Topography & Vegetation Loc. fell in gently sloping wheat field, ±532' West of abandoned house; ±205' North of E-W pipeline, ±229' North of E-W fence, ±231' North of power line, ±237' North of future telephone line.

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

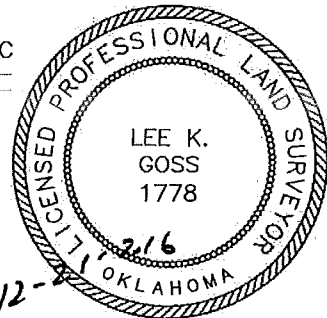
Best Accessibility to Location From South off county road

Distance & Direction from Hwy Jct or Town From Jct. St. Hwy. 51 and US Hwy. 81 in Hennessey, OK, go ±5.5 mi. East on St. Hwy. 51, then ±6.0 mi. South on paved road to the SW Cor. of Sec. 13-T18N-R6W

Date of Drawing: Dec. 03, 2016
 Invoice # 268226 Date Staked: Nov. 29, 2016

DATUM: NAD-27
 LAT: 36°01'47.0"N
 LONG: 97°47'48.2"W
 LAT: 36.029722° N
 LONG: 97.796714° W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 2060110.7
 Y: 374890.2

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
[Signature]
 Oklahoma Lic. No. 1778



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