

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

API NUMBER: 073 26538

Approval Date: 04/17/2019

Expiration Date: 10/17/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 18N Rge: 9W

County: KINGFISHER

SPOT LOCATION: ☐ NW ☐ NW ☐ NE ☐ NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 225 1185

Lease Name: COTTONMOUTH 18-09-20

Well No: 1H

Well will be 225 feet from nearest unit or lease boundary.

Operator Name: CHISHOLM OIL & GAS OPERATING LLC

Telephone: 9184886400

OTC/OCC Number: 23991 0

CHISHOLM OIL & GAS OPERATING LLC
6100 S YALE AVE STE 1700
TULSA, OK 74136-1921

HUMBURG PROPERTY MANAGEMENT
1100 SOUTH HOMER
MIDLAND MI 48640

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	7996	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 676155

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804883

Special Orders:

Total Depth: 13817

Ground Elevation: 1224

Surface Casing: 390

Depth to base of Treatable Water-Bearing FM: 340

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

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: 8000 Average: 5000

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 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: FLOWERPOT

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

PERMIT NO: 19-36498

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 20 Twp 18N Rge 9W County KINGFISHER

Spot Location of End Point: NE NE NW NE

Feet From: NORTH 1/4 Section Line: 175

Feet From: EAST 1/4 Section Line: 1485

Depth of Deviation: 8029

Radius of Turn: 521

Direction: 359

Total Length: 4970

Measured Total Depth: 13817

True Vertical Depth: 8550

End Point Location from Lease,

Unit, or Property Line: 175

Notes:

Category

Description

HYDRAULIC FRACTURING

4/13/2019 - 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

PENDING CD - 201804883

4/17/2019 - GB1 - (E.O.) 20-18N-9W
X676155 MSNLC
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 660' FEL
CHISHOLM OIL AND GAS OPERATING LLC
REC. 4/5/2019 (MOORE)

SPACING - 676155

4/17/2019 - GB1 - (640)(HOR) 20-18N-9W
EXT OTHER
EXT 652342 MSNLC, OTHER
COMPL. INT. NLT 660' FB

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 26538 COTTONMOUTH 18-09-20 1H



Well Location Plat

S.H.L. Sec. 29-18N-9W I.M.
B.H.L. Sec. 20-18N-9W I.M.

Operator: CHISHOLM OIL & GAS OPERATING, LLC
Lease Name and No.: COTTONMOUTH 18-09-20 1H
Footage: 225' FNL - 1185' FEL Gr. Elevation: 1224'
NW/4-NW/4-NE/4-NE/4 Section: 29 Township: 18N Range: 9W I.M.
County: Kingfisher State of Oklahoma
Terrain at Loc.: Location fell in wheat field.



All bearings shown
are grid bearings.



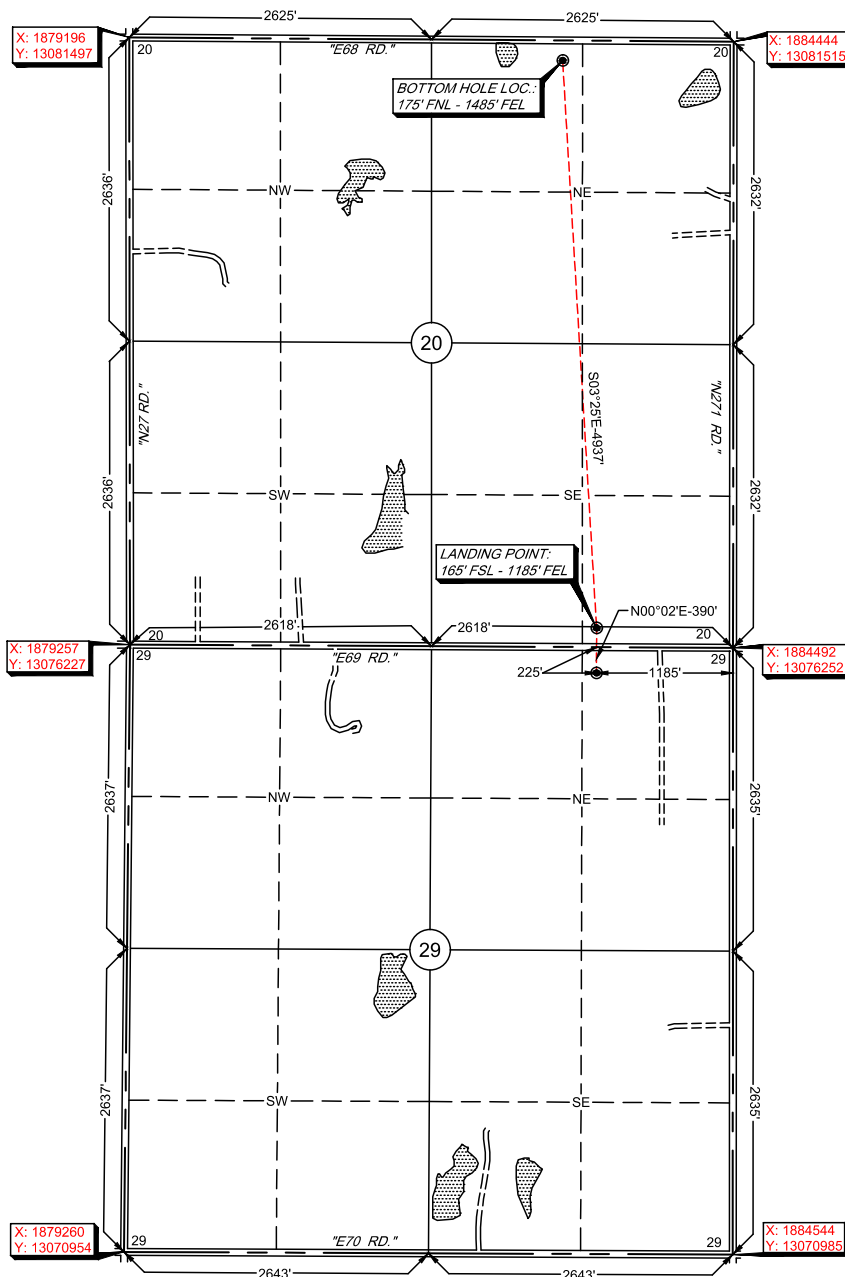
1" = 1320'

GPS DATUM
NAD 83
NAD 27
UTM - ZONE 14

Surface Hole Loc.:
Lat: 36°00'49.45"N
Lon: 98°10'43.66"W
Lat: 36.01369772
Lon: -98.17845147
X:1883310
Y:13076021

Landing Point:
Lat: 36°00'53.31"N
Lon: 98°10'43.67"W
Lat: 36.01476912
Lon: -98.17845307
X:1883306
Y:13076411

Bottom Hole Loc.:
Lat: 36°01'42.04"N
Lon: 98°10'47.37"W
Lat: 36.02830583
Lon: -98.17948055
X:1882961
Y:13081335



Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. The location is shown on this plat for informational purposes only. Any inconsistency is determined. GPS data is obtained from RTK - GPS. -NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Quarter Section distances may be assumed from a Government Survey Plat or other reliable source. The location shown on this plat is not a true boundary line, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

Survey and plat by:
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2020

Invoice #7920
Date Staked: 06/20/18 By: R.L.
Date Drawn: 06/26/18 By: J.D.
Revised Lease Name: 07/02/18 By: R.S.
Revised Landing Point: 12/19/18 By: J.K.

Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
LANCE G. MATHIS

12/20/18

OK LPLS 1664

