

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

API NUMBER: 073 26513 A

Approval Date: 03/25/2019
Expiration Date: 09/25/2020

Horizontal Hole Oil & Gas

Amend reason: AMEND BHL & OPERATOR, UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 18N Rge: 8W

County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ NE ☐ NE ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 620 2302

Lease Name: PHILWW 1808

Well No: 17-1MH

Well will be 620 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

JANET WEHRENBURG
10175 N 2760 ROAD
LOYAL OK 73756

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	7968	6	
2	WOODFORD	8490	7	
3			8	
4			9	
5			10	

Spacing Orders: 691781

Location Exception Orders: 697923

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13735

Ground Elevation: 1144

Surface Casing: 250

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 BED AQUIFER

Pit Location Formation: CEDAR HILLS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36346
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - CIMARRON RIVER)

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 17 Twp 18N Rge 8W County KINGFISHER

Spot Location of End Point: N2 N2 N2 N2

Feet From: NORTH 1/4 Section Line: 150

Feet From: EAST 1/4 Section Line: 2640

Depth of Deviation: 7551

Radius of Turn: 768

Direction: 5

Total Length: 4978

Measured Total Depth: 13735

True Vertical Depth: 8490

End Point Location from Lease,
Unit, or Property Line: 150

Notes:

Category

Description

BOTTOM HOLE LOCATION

9/5/2019 - G56 - 2655' FEL=2640' FEL PER PLAT

HYDRAULIC FRACTURING

3/11/2019 - 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

LOCATION EXCEPTION - 697923

3/25/2019 - G56 - (I.O.) 17-18N-8W
X691781 MSSP, WDFD
COMPL INT NCT 150' FSL, NCT 150' FNL, NCT 660' FEL
NO OP NAMED
6/18/2019

SPACING - 691781

3/25/2019 - G56 - (640)(HOR) 17-18N-8W
EXT 653404 MSSP, WDFD, OTHERS
COMPL INT (MSSP) NCT 660' FB
COMPL INT (WDFD) NCT 165' FNL OR FSL, NCT 330' FEL OR FWL
(COEXIST WITH SP # 78191 MNNG, MSSSD; # 196294 CSTR, OTHERS)

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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.

073 26513 PHILWW 1808 17-1MH

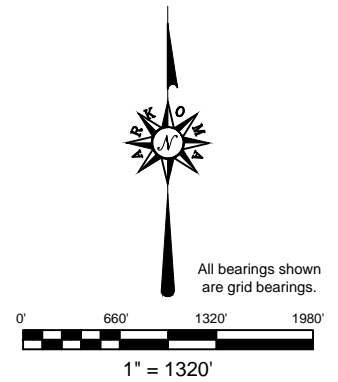


Well Location Plat

S.H.L. Sec. 20-18N-8W I.M.
B.H.L. Sec. 17-18N-8W I.M.

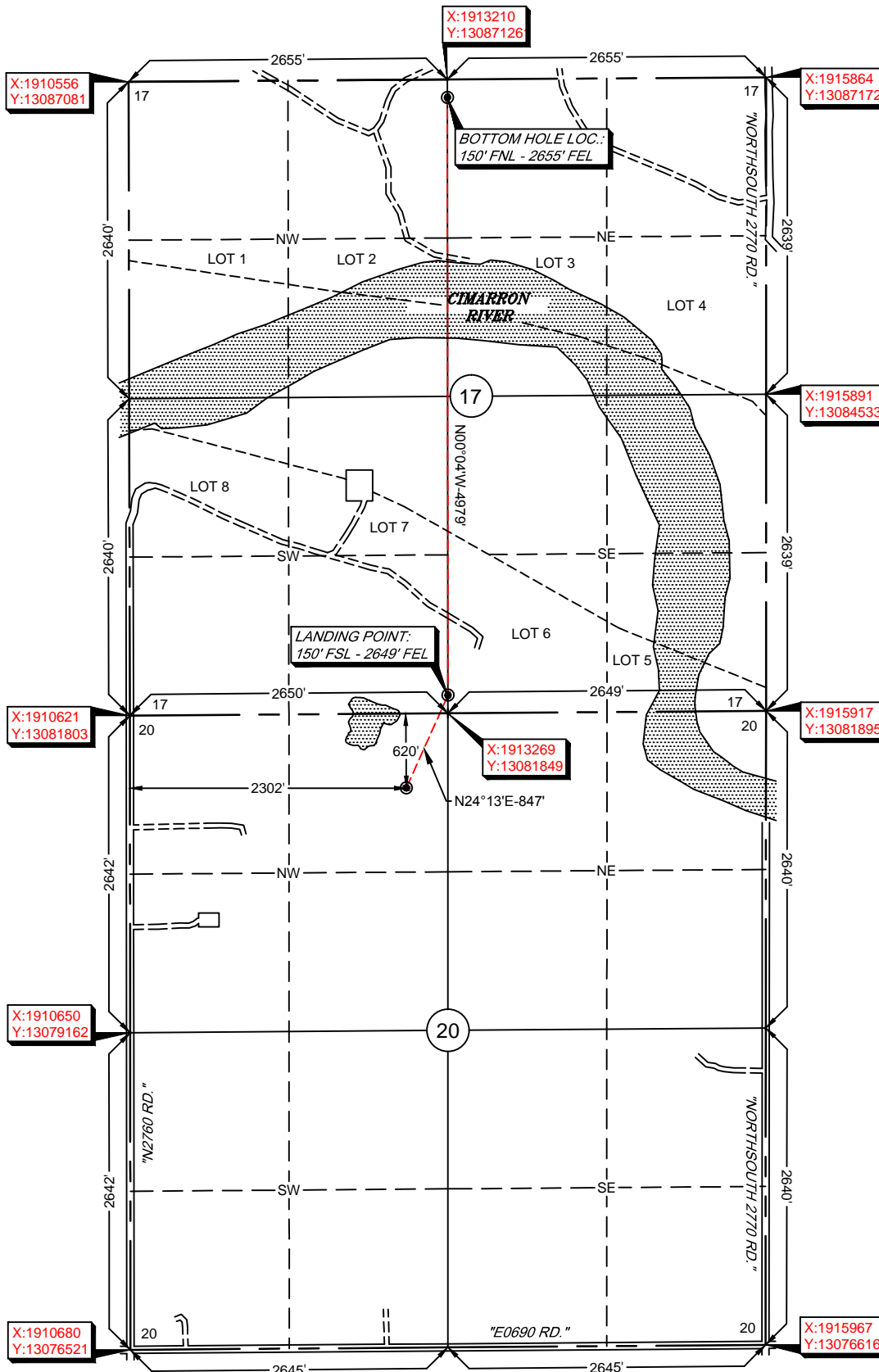
Operator: CHISHOLM OIL & GAS OPERATING, LLC
Lease Name and No.: PHILWW 1808 17-1MH
Footage: 620' FNL - 2302' FWL Gr. Elevation: 1144'
SW/4-NE/4-NE/4-NW/4 Section: 20 Township: 18N Range: 8W I.M.
County: Kingfisher State of Oklahoma
Terrain at Loc.: Location fell on existing pad site.

073-26513A



GPS DATUM
NAD 83
NAD 27
UTM - ZONE 14

Surface Hole Loc.:
Lat: 36°01'38.28"N
Lon: 98°04'42.43"W
Lat: 36.02726263
Lon: -98.07811428
X: 1912929
Y: 13081223
Landing Point:
Lat: 36°01'45.92"N
Lon: 98°04'38.21"W
Lat: 36.02938517
Lon: -98.07694205
X: 1913268
Y: 13081999
Bottom Hole Loc.:
Lat: 36°02'35.16"N
Lon: 98°04'38.33"W
Lat: 36.04306311
Lon: -98.07697400
X: 1913211
Y: 13086976



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. Please contact Arkoma Surveying and Mapping, PLLC, if any discrepancy is determined. GPS data is derived from RTK GPS. NOTE: X and Y data shown herein 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, filed or assumed as a proportionate distance from opposing section corners, or occupation thereof, 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 #8746-A
Date Staked: 08/14/19 By: B.A.
Date Drawn: 08/15/19 By: M.K.
Added LP & BHL: 08/26/19 By: J.C.

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

09/03/19

OK LPLS 1664

