

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

API NUMBER: 073 26473

Approval Date: 03/06/2019

Expiration Date: 09/06/2020

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 18N Rge: 9W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 209 295

Lease Name: ERMOKE 18-09-30

Well No: 1MH

Well will be 209 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

TOMMY JOHN GLAZIER
6500 E. 720 ROAD
LOYAL OK 73756

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	8045	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 686808

Location Exception Orders: 690843

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 13917

Ground Elevation: 1202

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 300

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: 19-36078

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 30 Twp 18N Rge 9W County KINGFISHER

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 175

Feet From: WEST 1/4 Section Line: 350

Depth of Deviation: 7796

Radius of Turn: 750

Direction: 5

Total Length: 4943

Measured Total Depth: 13917

True Vertical Depth: 8650

End Point Location from Lease,
Unit, or Property Line: 175

Notes:

Category

Description

HYDRAULIC FRACTURING

1/10/2019 - 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: OCCWEB.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

INTERMEDIATE CASING

1/10/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

LOCATION EXCEPTION - 690843

2/11/2019 - GA8 - (I.O.) 30-18N-9W
X686808 MSNLC
COMPL. INT. NCT 150' FSL, NCT 150' FNL, NCT 330' FWL
CHISHOLM OIL & GAS OPERATING, LLC
REC 11/13/2018 (JOHNSON)

SPACING - 686808

2/11/2019 - GA8 - (640)(HOR) 30-18N-9W
EXT OTHER
EXT 677887 MSNLC, OTHER
COMPL. INT. NLT 660' FB
(COEXIST SP. ORDER #65151 MSSSD & #382125 SW4 MSSSD, MNNG, OSAGE)

This permit does not address the right of entry or settlement of surface damages.

073 26473 ERMOKE 18-09-30 1MH

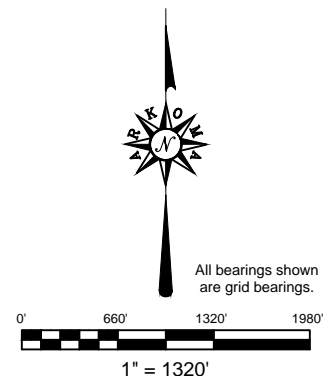
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

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B.H.L. Sec. 30-18N-9W I.M.

Terrain at Loc.: Location fell in a wheat field.



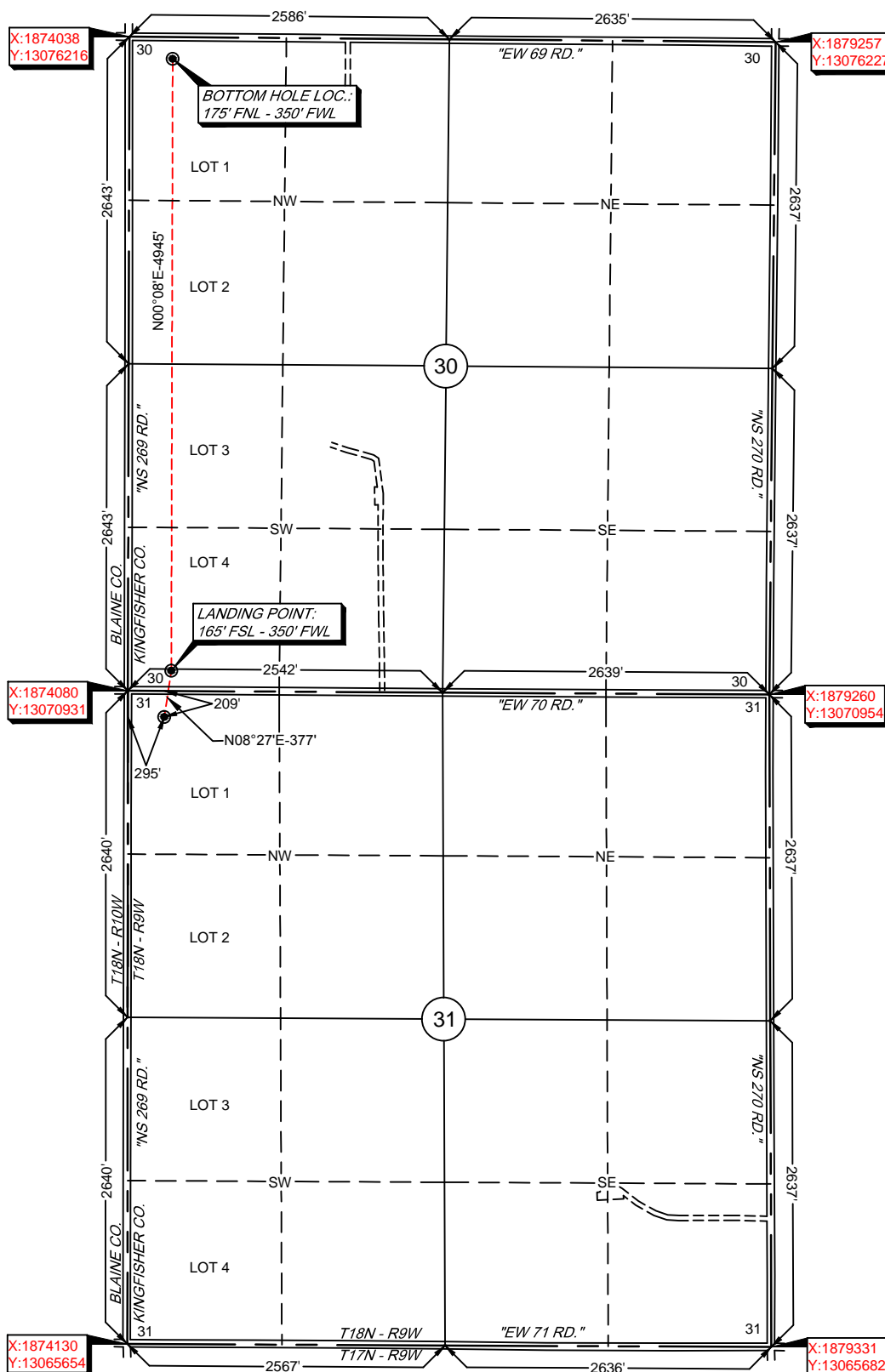
UTM - ZONE 14

Y:13070724

Y:13071098

Y:13076041


-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 Arkansas Surveying and Mapping promptly if any inaccuracy is determined. GPS data is observed 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 filed or assumed at a appropriate distance from opposing section corners, or occupation of the land, and further, does not represent a true boundary survey, or occupation of the land, and further, does not represent a true boundary survey.



Expires June 30, 2020

Revised Lease Name: 11/27/18 By: E.W.

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

OK LPLS 1664

