

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

API NUMBER: 083 24431

Approval Date: 08/07/2018

Expiration Date: 02/07/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 31 Twp: 18N Rge: 4W

County: LOGAN

SPOT LOCATION: ☐ NE ☐ NW ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 220 600

Lease Name: E. BOOT JOHNSON 18-04-31

Well No: 1H

Well will be 220 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

PATSY POLLARD  
503 SADDLEBACK STREET  
HENNESSEY OK 73742

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	6234	6	
2	WOODFORD	6686	7	
3			8	
4			9	
5			10	

Spacing Orders: 667771

Location Exception Orders: 676575

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11431

Ground Elevation: 1105

**Surface Casing: 360**

Depth to base of Treatable Water-Bearing FM: 310

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 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: FAIRMONT

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

PERMIT NO: 18-34983

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 31 Twp 18N Rge 4W County LOGAN

Spot Location of End Point: S2 SW SW SW

Feet From: SOUTH 1/4 Section Line: 175

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 6079

Radius of Turn: 505

Direction: 185

Total Length: 4558

Measured Total Depth: 11431

True Vertical Depth: 6686

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

Notes:

Category

Description

HYDRAULIC FRACTURING

7/30/2018 - 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](http://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](http://FRACFOCUS.ORG)

LOCATION EXCEPTION - 676575

8/7/2018 - G58 - (I.O.) 31-18N-4W  
X667771 MSSP, WDFD  
NCT 165' FNL, NCT 150' FSL, NCT 330' FWL  
CHISHOLM OIL AND GAS OPERATING, LLC  
4/20/2018

SPACING - 667771

8/7/2018 - G58 - (640)(HOR) 31-18N-4W  
EXT 632408 MSSP, WDFD  
COMPL. INT. (MSSP) NLT 660' FB  
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL  
(COEXIST SP. ORDER 46016/62761 MSSLM (N2 & SW4); SP. ORDER 85298 MSSLM (SE4))

# Well Location Plat

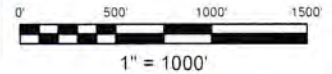
Sec. 31-18N-4W I.M.

Operator: CHISHOLM OIL & GAS OPERATING, LLC  
Lease Name and No.: E. BOOT JOHNSON 18-04-31 1H  
Footage: 220' FNL - 600' FWL Gr. Elevation: 1105'  
Section: 31 Township: 18N Range: 4W I.M.  
County: Logan State of Oklahoma  
Terrain at Loc.: Location fell in open, cultivated field, ± 100' East of N-S Pipeline.

083-24431



All bearings shown  
are gnd bearings.

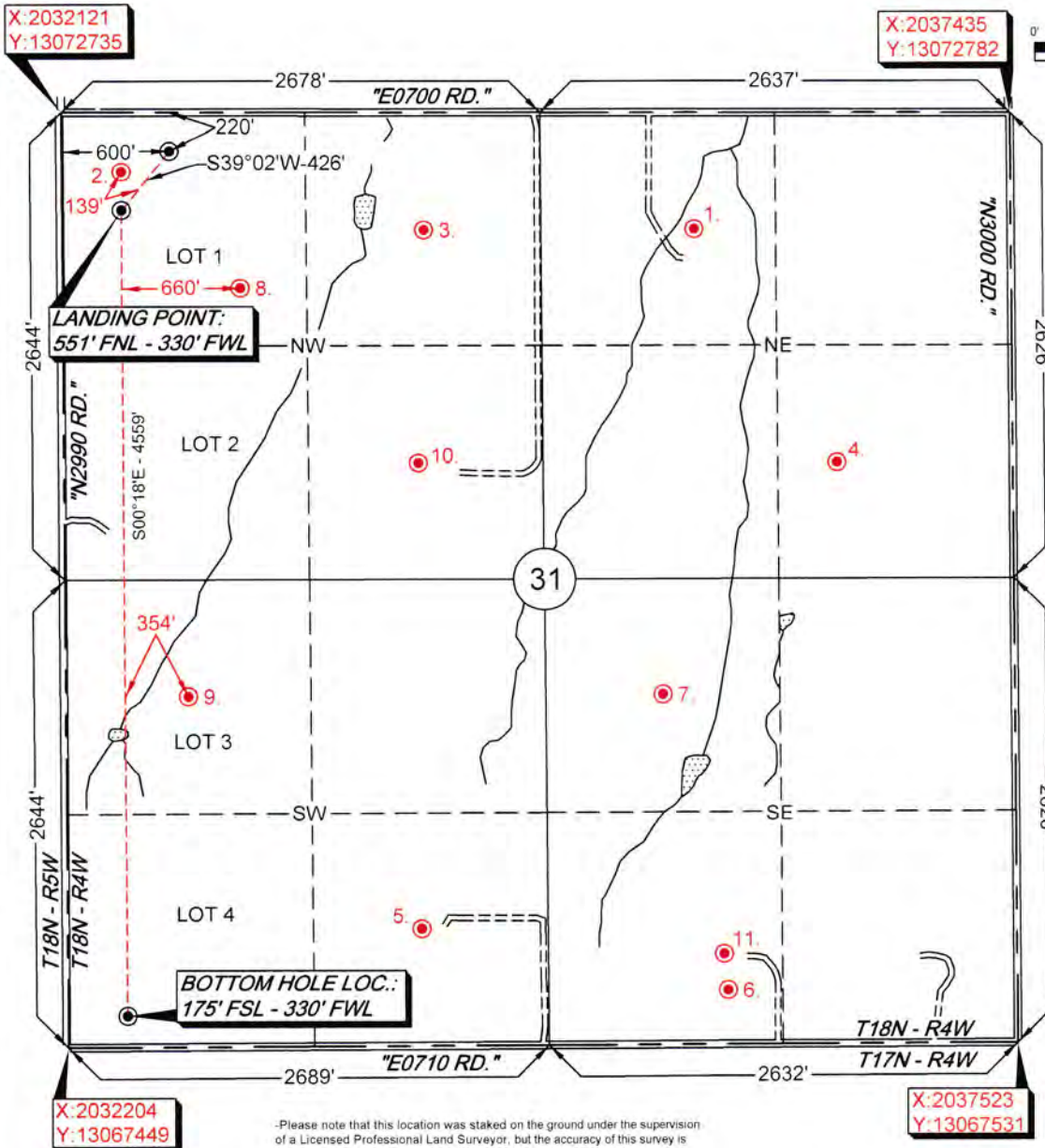


GPS DATUM  
NAD 83  
NAD 27  
UTM - ZONE 14

Surface Hole Loc.:  
Lat: 35°59'58.54"N  
Lon: 97°40'25.19"W  
Lat: 35.999553143  
Lon: -97.673338027  
X:2032725  
Y:13072520

Landing Point:  
Lat: 35°59'55.28"N  
Lon: 97°40'28.47"W  
Lat: 35.99864730  
Lon: -97.67424852  
X:2032460  
Y:13072187

Bottom Hole Loc.:  
Lat: 35°59'10.19"N  
Lon: 97°40'28.36"W  
Lat: 35.98612259  
Lon: -97.67421766  
X:2032531  
Y:13067629



-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 promptly if any inconsistency 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 Plat or assumed at 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, 2018

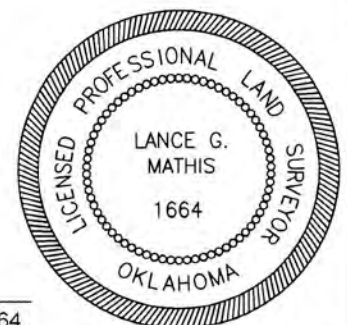
## Certification:

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

02/05/18

OK LPLS 1664



Invoice #7424-A-A

Date Staked: 01/26/18 By: C.K.  
Date Drawn: 01/31/18 By: K.B.