

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

API NUMBER: 073 26166

Approval Date: 07/24/2018

Expiration Date: 01/24/2019

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 16 Twp: 19N Rge: 8W

County: KINGFISHER

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 210 330

Lease Name: THREE BIRDS 19-08-16

Well No: 1MH

Well will be 210 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

COMMISSIONERS OF THE LAND OFFICE OF THE STATE
OF OKLAHOMA
204 NORTH ROBINSON AVENUE, SUITE 900
OKLAHOMA CITY OK 73102

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	7560	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201804622
201804624

Special Orders:

Total Depth: 12831

Ground Elevation: 1209

Surface Casing: 340

Depth to base of Treatable Water-Bearing FM: 290

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34896
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 16 Twp 19N Rge 8W County KINGFISHER

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 175

Feet From: WEST 1/4 Section Line: 340

Depth of Deviation: 7398

Radius of Turn: 573

Direction: 179

Total Length: 4532

Measured Total Depth: 12831

True Vertical Depth: 8000

End Point Location from Lease,

Unit, or Property Line: 175

Notes:

Category

Description

HYDRAULIC FRACTURING

7/6/2018 - 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; 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 - 201804622

7/24/2018 - G57 - (640)(HOR) 16-19N-8W
EST MSNLC
POE TO BHL NLT 660' FB
(COEXIST W/ SP. ORDER 53636/104380 MSSSD, SP. ORDER 69169 MISS)
REC 7-9-2018 (DUNN)

PENDING CD - 201804624

7/24/2018 - G57 - (I.O.) 16-19N-8W
X201804622 MSNLC
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FWL
CHISHOLM OIL & GAS OPERATING, LLC.
REC 7-9-2018 (DUNN)



Well Location Plat

Sec. 16-19N-8W I.M.

Operator: CHISHOLM OIL & GAS OPERATING, LLC

API: 073 26166

Lease Name and No.: THREE BIRDS 19-08-16 1MH

Footage: 210' FNL - 330' FWL Gr. Elevation: 1209'

N/2-NW/4-NW/4 Section: 16 Township: 19N Range: 8W I.M.

County: Kingfisher State of Oklahoma

Terrain at Loc.: Location fell in rolling pasture.



All bearings shown are grid bearings.

0' 500' 1000' 1500'

1" = 1000'

GPS DATUM

NAD 83

NAD 27

UTM - ZONE 14

Surface Hole Loc.:

Lat: 36°07'48.10"N

Lon: 98°04'03.17"W

Lat: 36.12999036

Lon: -98.06720694

X:1915795

Y:13118637

Landing Point:

Lat: 36°07'44.73"N

Lon: 98°04'03.07"W

Lat: 36.12905375

Lon: -98.06717829

X:1915806

Y:13118296

Bottom Hole Loc.:

Lat: 36°06'59.90"N

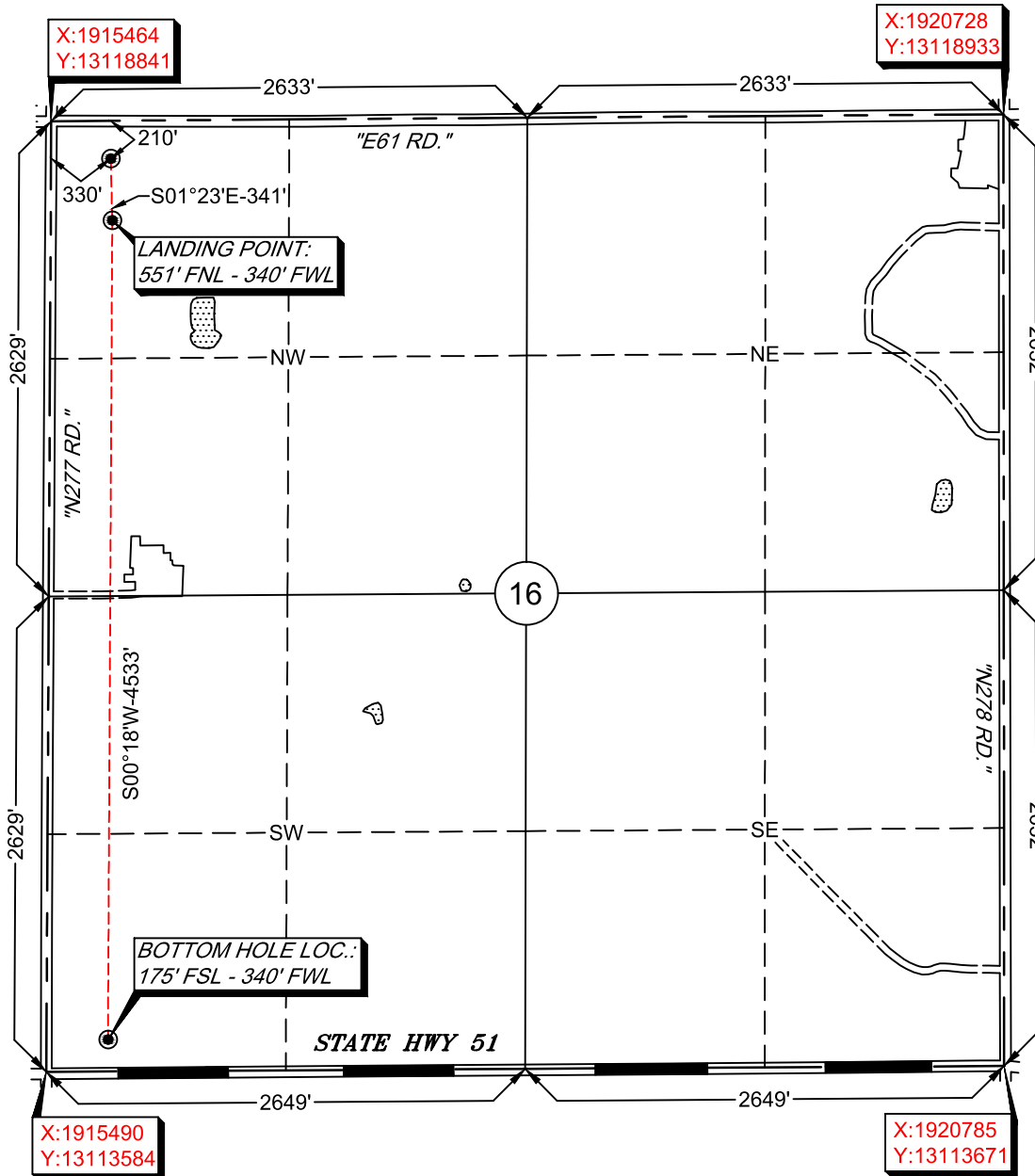
Lon: 98°04'03.31"W

Lat: 36.11660154

Lon: -98.06724769

X:1915829

Y:13113764



-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

Invoice #7849

Date Staked: 05/16/18 By: D.K.

Date Drawn: 05/21/18 By: J.K.

Revised Lease Name: 06/21/18 By: R.S.

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

06/21/18

OK LPLS 1664

