

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

API NUMBER: 011 24224

Approval Date: 06/17/2019
Expiration Date: 12/17/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 17N Rge: 10W County: BLAINE
SPOT LOCATION: FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 200 330

Lease Name: ALLEN O'BRIEN 18-10-31 Well No: 1H Well will be 200 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

MARY HELEN OSMUS
165389 EAST 730 ROAD
HITCHCOCK OK 73744

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	7992	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 111424

Location Exception Orders:

Increased Density Orders: 695012

Pending CD Numbers: 201901370

Special Orders:

Total Depth: 14367 Ground Elevation: 1201 Surface Casing: 120 Depth to base of Treatable Water-Bearing FM: 70

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: CHICKASHA

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36674
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 10W County BLAINE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 175

Feet From: EAST 1/4 Section Line: 350

Depth of Deviation: 8579

Radius of Turn: 521

Direction: 360

Total Length: 4970

Measured Total Depth: 14367

True Vertical Depth: 9100

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

Notes:

Category

Description

HYDRAULIC FRACTURING

5/30/2019 - 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

INCREASED DENSITY - 695012

6/14/2019 - GB1 - 31-18N-10W
X111424 MSSLM
1 WELL
CHISHOLM OIL AND GAS OPERATING, LLC
4/22/2019

INTERMEDIATE CASING

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

PENDING CD - 201901370

6/14/2019 - GB1 - (I.O.) 31-18N-10W
X111424 MSSLM
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL
NO OP. NAMED
REC. 3/26/2019 (JOHNSON)

SPACING - 111424

6/14/2019 - GB1 - (640) 31-18N-10W
EXT OTHERS
EXT 93374/97398 MSSLM, OTHERS

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.

011 24224 ALLEN O'BRIEN 18-10-31 1H

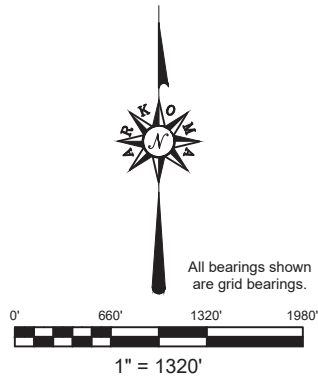


Well Location Plat

S.H.L. Sec. 6-17N-10W I.M.
B.H.L. Sec. 31-18N-10W I.M.

Operator: CHISHOLM OIL & GAS OPERATING, LLC
Lease Name and No.: ALLEN O'BRIEN 18-10-31 1H
Footage: 200' FNL - 330' FEL Gr. Elevation: 1201'
N/2-NE/4-NE/4-NE/4 Section: 6 Township: 17N Range: 10W I.M.
County: Blaine State of Oklahoma
Terrain at Loc.: Location fell in flat open field.

API 011-24224



GPS DATUM

NAD 83

NAD 27

UTM - ZONE 14

Surface Hole Loc.:

Lat: 35°59'05.60"N

Lon: 98°18'01.72"W

Lat: 35.98485049

Lon: -98.30012869

X:1847410

Y:13065243

Landing Point:

Lat: 35°59'09.21"N

Lon: 98°18'01.98"W

Lat: 35.98585327

Lon: -98.30020131

X:1847386

Y:13065608

Bottom Hole Loc.:

Lat: 35°59'58.24"N

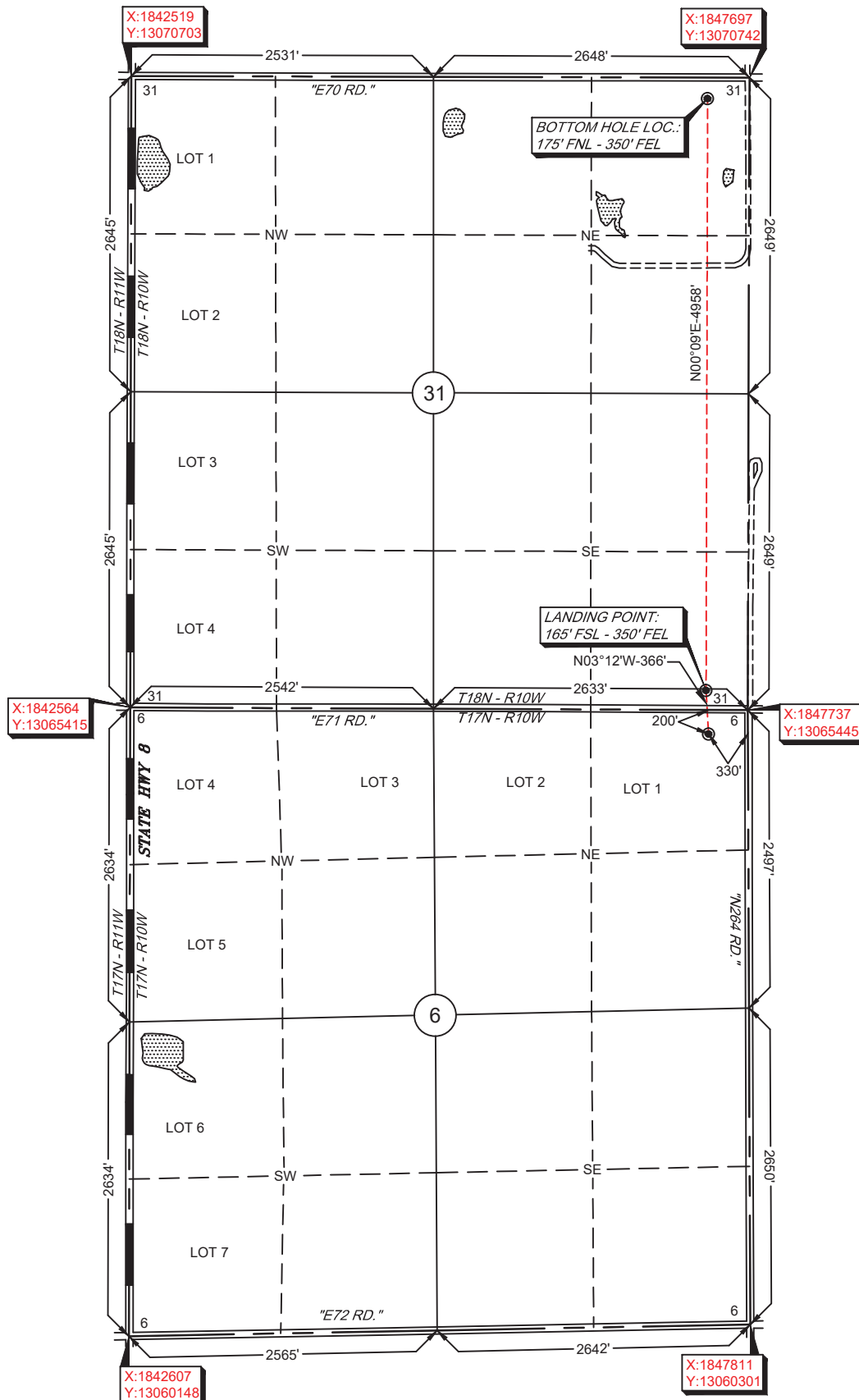
Lon: 98°18'02.01"W

Lat: 35.99947244

Lon: -98.30020878

X:1847348

Y:13070564



-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, 2020

Invoice #7844

Date Staked: 05/15/18 By: D.K.

Date Drawn: 05/19/18 By: K.B.

Rev. Lease Name: 11/14/18 By: J.H.

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

11/15/18

OK LPLS 1664

