

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

API NUMBER: 083 24428

Approval Date: 06/27/2018

Expiration Date: 12/27/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 17N Rge: 4W

County: LOGAN

SPOT LOCATION:

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 228 1325

Lease Name: PICKLES GAP 17-04-08

Well No: 1H

Well will be 228 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

CAROLYN A. ENGLE, TRUSTEE
610 GLATT CIRCLE
WOODBURN OR 97071

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	6367	6	
2	WOODFORD	6840	7	
3			8	
4			9	
5			10	

Spacing Orders: 667598

Location Exception Orders: 674628

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 11611

Ground Elevation: 1153

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 320

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: 18-34798
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 08 Twp 17N Rge 4W County LOGAN

Spot Location of End Point: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 175

Feet From: WEST 1/4 Section Line: 1340

Depth of Deviation: 6260

Radius of Turn: 603

Direction: 180

Total Length: 4404

Measured Total Depth: 11611

True Vertical Depth: 6840

End Point Location from Lease,

Unit, or Property Line: 175

Additional Surface Owner	Address	City, State, Zip
CAROLYN A. ENGLE, TRUSTEE	610 GLATT CIRCLE	WOODBURN, OR 97071

Notes:

Category

Description

HYDRAULIC FRACTURING

6/26/2018 - 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

LOCATION EXCEPTION - 674628

6/27/2018 - G58 - (I.O.) 8-17N-4W
X667598 MSSP, WDFD
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FWL
CHISHOLM OIL AND GAS OPERATING, LLC
3/13/2018

SPACING - 667598

6/27/2018 - G58 - (640)(HOR) 8-17N-4W
EXT 632408 MSSP, WDFD, OTHER
COMPL. INT. (MSSP) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
(COEXIST SP ORDER 530431 MSSLM; SP ORDER 59564 MSSLM)

SURFACE CASING

6/26/2018 - G71 - MIN. 500' PER ORDER 66227

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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.

083 24428 PICKLES GAP 17-04-08 1H



Well Location Plat

Sec. 8-17N-4W I.M.

Operator: CHISHOLM OIL & GAS OPERATING, LLC

Lease Name and No.: PICKLES GAP 17-04-08 1H

083-24428

Footage: 228' FNL - 1325' FWL Gr. Elevation: 1153'

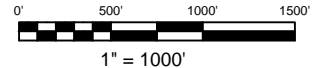
N/2-N/2-NW/4 Section: 8 Township: 17N Range: 4W I.M.

County: Logan State of Oklahoma

Terrain at Loc.: Location fell in an open, flat cultivated field.



All bearings shown
are grid bearings.



GPS DATUM

NAD 83

NAD 27

UTM - ZONE 14

Surface Hole Loc.:

Lat: 35°58'13.55"N

Lon: 97°39'11.49"W

Lat: 35.97038748

Lon: -97.65286614

X:2038925

Y:13061990

Landing Point:

Lat: 35°58'08.88"N

Lon: 97°39'11.32"W

Lat: 35.96909066

Lon: -97.65281874

X:2038946

Y:13061518

Bottom Hole Loc.:

Lat: 35°57'25.32"N

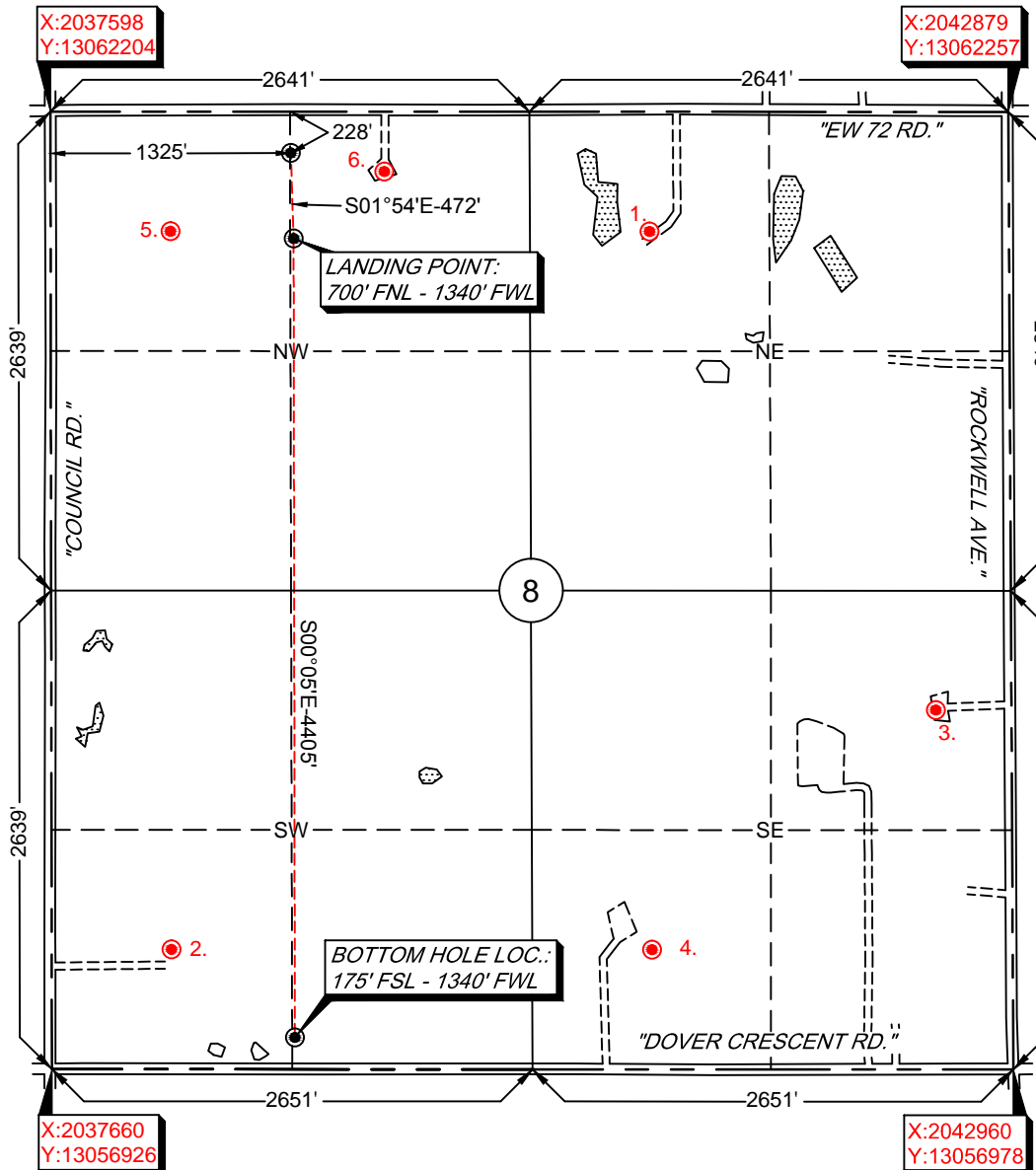
Lon: 97°39'11.43"W

Lat: 35.95699056

Lon: -97.65284957

X:2038998

Y:13057114



-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 #7428-A-A

Date Staked: 02/28/18 By: J.L.

Date Drawn: 03/02/18 By: C.K.

Rev. LP & BHL: 05/24/18 By: C.K.

Rev. SHL: 06/01/18 By: J.K.

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

06/01/18

OK LPLS 1664

