

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

API NUMBER: 011 24161 B

Approval Date: 01/09/2019
Expiration Date: 07/09/2020

Horizontal Hole Oil & Gas

Amend reason: AMENDING SURFACE CASING TO 461'

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 17N Rge: 10W County: BLAINE
SPOT LOCATION: NE NE NE NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 203 228

Lease Name: BUFFALO HEIFER 18-10-32 Well No: 1MH Well will be 203 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

ROBERT P SCHAFFLER JUDY L SCHAFFLER
512 CHISOLM TRAIL
WATONGA OK 73772

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	8040	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 111424 Location Exception Orders: 699457 Increased Density Orders: 691822

Pending CD Numbers: Special Orders:

Total Depth: 14214 Ground Elevation: 1231 **Surface Casing: 461** Depth to base of Treatable Water-Bearing FM: 100

Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes

PIT 1 INFORMATION

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35941
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 18 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 32 Twp 18N Rge 10W County BLAINE

Spot Location of End Point: NW NE NE NE

Feet From: NORTH 1/4 Section Line: 230

Feet From: EAST 1/4 Section Line: 377

Depth of Deviation: 8750

Radius of Turn: 704

Direction: 359

Total Length: 4358

Measured Total Depth: 14214

True Vertical Depth: 9184

End Point Location from Lease,
Unit, or Property Line: 230

Notes:

Category	Description
DEEP SURFACE CASING	11/7/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	12/20/2018 - 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
INCREASED DENSITY - 691822	12/4/2019 - G56 - 32-18N-10W X111424 MSSLM 1 WELL CHISHOLM OIL & GAS OPERATING, LLC 2/21/2019
INTERMEDIATE CASING	12/20/2018 - 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 - 699457	12/4/2019 - G56 - (F.O.) 32-18N-10W X111424 MSSLM SHL (5-17N-10W) 203' FNL, 228' FEL COMPL INT (FIRST PERF) 341' FSL, 339' FEL COMPL INT (LAST PERF) 273' FNL, 378' FEL CHISHOLM OIL & GAS OPERATING, LLC 7/22/2019
SPACING - 111424	12/4/2019 - G56 - (640) 32-18N-10W EXT OTHERS EXT 93374/97398 MSSLM, OTHERS

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