API NUMBER: 011 24161

Oil & Gas

Horizontal Hole

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

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

PERMIT TO DRILL

WELL LOCATION:	Sec:	05	Twp:	17N	Rge:	10\	N County	: BLA	NE		
SPOT LOCATION:	NE	NE	N	E	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 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	WOODFORD	9350	7	
3			8	
4			9	
5			10	
Spacing Orders:	111424	Location Exception Orders: 65896	69	Increased Density Orders:
	681943			

Pending CD Numbers: 201900179 Special Orders:

Total Depth: 14217 Ground Elevation: 1231 Surface Casing: 150 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 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: 18-35941
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

HORIZONTAL HOLE 1

BLAINE Sec 32 Twp 18N Rge 10W County

Spot Location of End Point: NW NF NE NE Feet From: NORTH 1/4 Section Line: 175 Feet From: EAST 1/4 Section Line: 350

Depth of Deviation: 8429 Radius of Turn: 521 Direction: 359 Total Length: 4970

Measured Total Depth: 14217 True Vertical Depth: 9350 End Point Location from Lease. Unit. or Property Line: 175

Notes:

Description Category

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

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 - 658969 1/8/2019 - G56 - (I.O.) 32-18N-10W

X681943 WDFD

X111424 MSSLM

COMPL INT NCT 150' FNL, NCT 150' FSL, NCT 330' FEL

CHISHOLM OIL & GAS OPERATING, LLC

11/1/2018

PENDING CD - 201900179 1/9/2019 - G56 - (E.O.) 32-18N-10W

X111424 MSSLM

1 WFI I

CHISHOLM OIL & GAS OPERATING, LLC

HEARING 1/15/2019

1/8/2019 - G56 - (640) 32-18N-10W **SPACING - 111424**

EXT OTHERS

EXT 93374/97398 MSSLM, OTHERS

1/8/2019 - G56 - (640)(HOR) 32-18N-10W **SPACING - 681943**

EXT 645777 WDFD

POE TO BHL NLT 165' FNL/FSL, NLT 330' FEL/FWL

S.H.L. Sec. 5-17N-10W I.M. Well Location Plat B.H.L. Sec. 32- 18N-10W I.M. Operator: CHISHOLM OIL & GAS OPERATING, LLC Lease Name and No.: BUFFALO HEIFER 18-10-32 1MH Footage: 203' FNL - 228' FEL Gr. Elevation: 1231' NE/4-NE/4-NE/4 Section: 5 Township: 17N Range: 10W I.M. County: Blaine State of Oklahoma Terrain at Loc.: Location fell in a flat, open field. 1" = 1320 **GPS DATUM NAD 83 NAD 27** BOTTOM HOLE LOC 175' FNL - 350' FEL UTM - ZONE 14 S. Surface Hole Loc.: Lat: 35°59'05.86"N Lon: 98°16'56.18"W Lat: 35.98492240 Lon: -98.28192491 X:1852794 Y:13065309 8 Landing Point: Lat: 35°59'09.49"N Lon: 98°16'57.69"W 32 Lat: 35.98593139 Lon: -98.28234333 X:1852668 Y:13065675 Bottom Hole Loc.: Lat: 35°59'58.43"N Lon: 98°16'57.92"W Lat: 35.99952614 Lon: -98.28240772 LANDING POINT: 165' FSL - 350' FEL X:1852612 Y:13070622 X:1853019 Y:13065515 E71 RD. X:1847737 Y:13065445 N18°28'W-388 LOT 4 LOT 3 LOT 1 LOT 2 8 Ž X-1847811 Y:13060301 X:1853087 Y:13060353 'E72 RD." 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 SSIONAL Certification: LANCE G. This is to certify that this Well Location Plat represents CENSED Invoice #7845-A Date Staked: 06/22/18 By: D.K. Date Drawn: 07/03/18 By: K.B. Revise Lease Name: 07/09/18 By: R.M. Revise Lease Name: 08/16/18 By: R.S. Revise LP & BHL: 08/16/18 By: J.K. Revise LP: 08/23/18 By: J.D. SURVEY MATHIS the results of a survey made on the ground performed under the supervision of the undersigned. 1664 OKL AHOMA 08/23/18 LANCE G. MATHIS **OK LPLS 1664**