API NUMBER: 011 24193

Horizontal Hole Oil & Gas

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

Approval Date: 03/13/2019
Expiration Date: 09/13/2020

PERMIT TO DRILL

WELL LOCATION: Sec: 36 Twp: 18N Rge: 11W County: BLAINE

SPOT LOCATION: SE SW SE SE FEET FROM QUARTER: FROM **SOUTH** FROM **EAST**
SECTION LINES: **250** **675**

Lease Name: SEAN O'BRIEN 18-11-36 **Well No: 1MH** **Well will be 250 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

JACK A. STOCKTON & SHARON ANN STOCKTON, TRUSTEES
15024 JEFFERSON LANE
OKLAHOMA CITY OK 73134

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

	Name	Depth		Name	Depth
1	MISSISSIPPI LIME	8116	6		
2	WOODFORD	9374	7		
3			8		
4			9		
5			10		

Spacing Orders: 169512
659330

Location Exception Orders: 683579

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 14081 Ground Elevation: 1218 **Surface Casing: 480** Depth to base of Treatable Water-Bearing FM: 50

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: 19-36303
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - SALT CREEK)

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 36 Twp 18N Rge 11W 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: 8729

Radius of Turn: 504

Direction: 1

Total Length: 4561

Measured Total Depth: 14081

True Vertical Depth: 9374

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

Additional Surface Owner	Address	City, State, Zip
F. DOUGLAS SHIRLEY & ANASTASIA	109 HIGHLAND TERRACE	NORMAN, OK 73069

Notes:

Category	Description
DEEP SURFACE CASING	3/5/2019 - 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	3/4/2019 - 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
INTERMEDIATE CASING	3/4/2019 - 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 - 683579	3/13/2019 - G58 - (I.O.) 36-18N-11W X169512 MSSLM X659330 WDFD COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FEL CHISHOLM OIL AND GAS, LLC 9/24/2018
SPACING - 169512	3/13/2019 - G58 - (640) 36-18N-11W EXT 111424 MSSLM, OTHERS
SPACING - 659330	3/13/2019 - G58 - (640) 36-18N-11W EST WDFD

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