

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

API NUMBER: 017 25499

Approval Date: 07/29/2019

Expiration Date: 01/29/2021

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 11N Rge: 7W County: CANADIAN
SPOT LOCATION: SW SE SE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 2420 2240

Lease Name: WHIRLAWAY 33-4-11-7 Well No: 1MXH Well will be 2240 feet from nearest unit or lease boundary.

Operator ROAN RESOURCES LLC
Name:

Telephone: 4058968453

OTC/OCC Number: 24127 0

ROAN RESOURCES LLC
14701 HERTZ QUAIL SPRINGS PKWY
OKLAHOMA CITY, OK 73134-2641

DRIES FAMILY TRUST
321 S. MAPLE AVE
UNION CITY OK 73090

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	10778	6	
2 MISSISSIPPI LIME	10778	7	
3 WOODFORD	10997	8	
4		9	
5		10	

Spacing Orders: 671759
107705
668456

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903507
201903509
201903505
201903508

Special Orders:

Total Depth: 17712

Ground Elevation: 1322

Surface Casing: 1500

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

Type of Pit System: ON SITE

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36818

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: ON SITE
Type of Mud System: OIL BASED
Chlorides Max: 300000 Average: 200000
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: 3
Liner required for Category: 3
Pit Location is NON HSA
Pit Location Formation: DOG CREEK

HORIZONTAL HOLE 1

Sec 04 Twp 10N Rge 7W County CANADIAN
Spot Location of End Point: SE NW SE SW
Feet From: SOUTH 1/4 Section Line: 850
Feet From: WEST 1/4 Section Line: 1680
Depth of Deviation: 10094
Radius of Turn: 575
Direction: 182
Total Length: 6715
Measured Total Depth: 17712
True Vertical Depth: 10997
End Point Location from Lease,
Unit, or Property Line: 850

Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, MEMO, and PENDING CD - 201903505.

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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.

Category	Description
PENDING CD - 201903507	7/26/2019 - GB1 - (E.O.) 33-11N-7W & 4-10N-7W EST MULTIUNIT HORIZONTAL WELL X671759 MSSP, WDFD 33-11N-7W X107705 MSSLM 4-10N-7W X668456 WDFD 4-10N-7W (WDFD IS ADJACENT COMMON SOURCE OF SUPPLY TO MSSP/MSSLM) 36% 33-11N-7W 64% 4-10N-7W ROAN RESOURCES LLC REC. 7/9/2019 (MILLER)
PENDING CD - 201903508	7/26/2019 - GB1 - 4-10N-7W X107705 MSSL X668456 WDFD 2 WELLS MSSLM, 2 WELLS WDFD ROAN RESOURCES LLC HEARING 8/5/2019
PENDING CD - 201903509	7/26/2019 - GB1 - (E.O.) 33-11N-7W & 4-10N-7W X671759 MSSP, WDFD 33-11N-7W X107705 MSSLM 4-10N-7W X668456 WDFD 4-10N-7W COMPL. INT. (33-11N-7W) NCT 2500 FNL, NCT 0' FSL, NCT 1320' FWL COMPL. INT. (4-10N-7W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FWL ROAN RESOURCES LLC REC/ 7/9/2019 (MILLER)
SPACING - 107705	7/26/2019 - GB1 - (640) 4-10N-7W CONFIRMS SP ORDER 98732 EXT 98732 MSSLM, OTHERS EXT OTHERS
SPACING - 668456	7/26/2019 - GB1 - (640)(HOR) 4-10N-7W EST WDFD COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL
SPACING - 671759	7/26/2019 - GB1 - (640)(HOR) 33-11N-7W EST MSSP, WDFD COMPL. INT. (MSSP) NCT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL

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