

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

API NUMBER: 017 25208 A

Approval Date: 04/10/2018

Expiration Date: 10/10/2018

Horizontal Hole  
Oil & Gas  
Multi Unit

Amend reason: OCC CORRECTION: BHL & UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 10N Rge: 6W

County: CANADIAN

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 560 575

Lease Name: DORIS 12-13-10-6

Well No: 2XH

Well will be 560 feet from nearest unit or lease boundary.

Operator  
Name: ROAN RESOURCES LLC

Telephone: 4058968051

OTC/OCC Number: 24127 0

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

PHILLIP F REIMERS AND DEBRA R REMIERS  
9911 WIND DANCER  
SAN ANTONIO TX 78251

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	9150	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 658363  
653152  
695029

Location Exception Orders: 695030

Increased Density Orders: 678074  
678075

Pending CD Numbers:

Special Orders:

Total Depth: 19592

Ground Elevation: 1273

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 180

Deep surface casing has been approved

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: Yes

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 located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

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: 18-34141

H. SEE MEMO

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.

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 located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 13 Twp 10N Rge 6W County GRADY

Spot Location of End Point: SE SW SE SE

Feet From: SOUTH 1/4 Section Line: 56

Feet From: EAST 1/4 Section Line: 817

Depth of Deviation: 8740

Radius of Turn: 631

Direction: 179

Total Length: 9860

Measured Total Depth: 19592

True Vertical Depth: 9508

End Point Location from Lease,  
Unit, or Property Line: 56

Additional Surface Owner	Address	City, State, Zip
STANLEY E REIMERS AND JANICE L	5627 NW 37TH STREET	OKLAHOMA CITY, OK 73122
MARVIN D REIMERS REVOCABLE T	5313 NW 161ST TERRACE	EDMOND, OK 73013

Notes:

Category

Description

DEEP SURFACE CASING

3/28/2018 - 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

3/28/2018 - 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](http://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](http://FRACFOCUS.ORG)

INCREASED DENSITY - 678074 (201802311) 1/14/2020 - G56 - 12-10N-6W  
X658363 MSSP  
1 WELL  
NO OP NAMED  
5/21/2018

This permit does not address the right of entry or settlement of surface damages.

017 25208 DORIS 12-13-10-6 2XH

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.

INCREASED DENSITY - 678075 (201802317)	1/14/2018 - G56 - 13-10N-6W X653152 MSSP 1 WELL NO OP NAMED 5/21/2018
LOCATION EXCEPTION - 695030 (201802316)	1/14/2020 - G56 - (F.O.) 12 & 13-10N-6W X658363 MSSP 12-10N-6W X653152 MSSP 13-10N-6W X165:10-3-28 (C)(2)(B) MSSP (DORIS 12-13-10-6 2XH) 115' AWAY FROM DORIS 12-13-10N-6W 1XH SHL (1-10N-6W) 560' FSL, 575' FEL COMPL INT (12-10N-6W) FIRST PERF 203' FNL, 554' FEL LAST PERF 0' FSL, 612' FEL COMPL INT (13-10N-6W) FIRST PERF 0' FNL, 612' FEL LAST PERF 176' FSL, 811' FEL ROAN RESOURCES, LLC 4/23/2019
MEMO	3/28/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 653152	1/14/2020 - G56 - (640)(HOR) 13-10N-6W EXT 643197 MSSP, OTHER POE TO BHL NLT 660' FB (COEXIST WITH 242971 FOR MISS)
SPACING - 658363	1/14/2020 - G56 - (640)(HOR) 12-10N-6W EST MSSP, OTHER POE TO BHL NLT 660' FB
SPACING - 695029 (201802315)	1/14/2020 - G56 - (F.O.) 12 & 13-10N-6W EST MULTIUNIT HORIZONTAL WELL X658363 MSSP, OTHER 12-10N-6W X653152 MSSP, OTHER 13-10N-6W 51.1783% 12-10N-6W 48.8217% 13-10N-6W ROAN RESOURCES, LLC 4/23/2019