

API NUMBER: 017 25321

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

Approval Date: 11/19/2018
Expiration Date: 05/19/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 05 Township: 11N Range: 5W County: CANADIAN

SPOT LOCATION: ☐ NE ☐ NE ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 235 1045

Lease Name: SWITZER 5-8-11-5 Well No: 1WXH Well will be 235 feet from nearest unit or lease boundary.
Operator Name: ROAN RESOURCES LLC Telephone: 9189494680 OTC/OCC Number: 24127 0

ROAN RESOURCES LLC
320 S BOSTON AVE STE 900
TULSA, OK 74103-3729

DWAIN SWITZER LIVING TRUST ET AL
1200 SYCAMORE
WEATHERFORD OK 73096

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

Name	Code	Depth
1 WOODFORD	319WDFD	8512

Spacing Orders: No Spacing

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: 201809109
201805959
201805960
201809110
201809111
201809112

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 19072

Ground Elevation: 1331

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 1160

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 18-35820

H. (Other)

SEE MEMO

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

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

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

Section: 8	Township: 11N	Range: 5W	Meridian: IM	Total Length: 10329
	County: CANADIAN			Measured Total Depth: 19072
Spot Location of End Point: SW	SW	SW	SW	True Vertical Depth: 8512
Feet From: SOUTH	1/4 Section Line: 65			End Point Location from
Feet From: WEST	1/4 Section Line: 290			Lease, Unit, or Property Line: 65

NOTES:

Category	Description
DEEP SURFACE CASING	11/9/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	11/9/2018 - 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
MEMO	11/9/2018 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
PENDING CD - 201805959	11/19/2018 - G75 - (640)(HOR) 5-11N-5W EXT 676879 WDFD, OTHER POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 8-28-2018 (FOREMAN)
PENDING CD - 201805960	11/19/2018 - G75 - (640)(HOR) 8-11N-5W VAC OTHERS VAC 151845 WDFD EXT 676879 WDFD, OTHER POE TO BHL NLT 165' FNL & FSL, NLT 330' FEL & FWL REC 8-28-2018 (FOREMAN)
PENDING CD - 201809109	11/19/2018 - G75 - (E.O.) 5 & 8-11N-5W EST MULTIUNIT HORIZONTAL WELL X201805959 WDFD 5-11N-5W X201805960 WDFD 8-11N-5W 50% 5-11N-5W 50% 8-11N-5W ROAN RESOURCES, LLC. REC 11-13-2018 (MINMIER)
PENDING CD - 201809110	11/19/2018 - G75 - (E.O.) 5 & 8-11N-5W X201805959 WDFD 5-11N-5W X201805960 WDFD 8-11N-5W COMPL. INT. (5-11N-5W) NCT 165' FNL, NCT 0' FSL, NCT 250' FWL COMPL. INT. (8-11N-5W) NCT 0' FNL, NCT 165' FSL, NCT 250' FWL ROAN RESOURCES, LLC REC 11-13-2018 (MINMIER)
PENDING CD - 201809111	11/19/2018 - G75 - 5-11N-5W X201805959 WDFD 1 WELL NO OP. NAMED HEARING 11-27-2018
PENDING CD - 201809112	11/19/2018 - G75 - 8-11N-5W X201805960 WDFD 1 WELL NO OP. NAMED HEARING 11-27-2018

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017 25321 SWITZER 5-8-11-5 1WXH