API NUMBER: 017 25231

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: 06/12/2018 **Expiration Date** 12/12/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 10N Rge: 5W County: CANADIAN

FEET FROM QUARTER: SPOT LOCATION: NE SOUTH EAST NE || NE SE FROM

SECTION LINES: 2390 295

Lease Name: BARBARO 5-8-10-5 Well No: 2XH Well will be 295 feet from nearest unit or lease boundary.

ROAN RESOURCES LLC Operator OTC/OCC Number: Telephone: 4052412237 24127 0 Name:

ROAN RESOURCES LLC

14701 HERTZ QUAIL SPRINGS PKWY

OKLAHOMA CITY. OK 73134-2641 CAROLE ANN HANNA 10005 S CZECH HALL RD

MUSTANG OK 73064

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

Name Depth Name Depth WOODFORD 8925 1 6 2 7 8 3 4 9 10 654578 Location Exception Orders:

Spacing Orders: Increased Density Orders:

201804155 201803444

Pending CD Numbers:

201803445

201804154

Total Depth: 17403 Ground Elevation: 1313 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 650

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?

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: 18-34536

Special Orders:

H. SEE MEMO

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 08 Twp 10N Rge 5W County CANADIAN

Spot Location of End Point: SW SW SE SE
Feet From: SOUTH 1/4 Section Line: 65
Feet From: EAST 1/4 Section Line: 1296

Depth of Deviation: 8625 Radius of Turn: 575 Direction: 185

Total Length: 7875

Measured Total Depth: 17403

True Vertical Depth: 8950

End Point Location from Lease,
Unit, or Property Line: 65

Notes:

MEMO

Category Description

DEEP SURFACE CASING 6/5/2018 - 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 6/5/2018 - 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

6/5/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM

RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201803444 6/8/2018 - G58 - 8-10N-5W

X654578 WDFD 5 WELLS NO OP. NAMED

REC 5/22/2018 (FOREMAN)

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.

Category Description

PENDING CD - 201803445 6/8/2018 - G58 - 5-10N-5W

X654578 WDFD 5 WELLS NO OP. NAMED

REC 5/22/2018 (FOREMAN)

PENDING CD - 201804154 6/8/2018 - G58 - (E.O.) 5 & 8-10N-5W

EST MULTIUNIT HORIZONTAL WELL

X654578 WDFD (5 & 8-10N-5W)

33% 5-10N-5W 67% 8-10N-5W NO OP. NAMED

REC 6/1/2018 (P. PORTER)

PENDING CD - 201804155 6/8/2018 - G58 - (E.O.) 5 & 8-10N-5W

X654578 WDFD (5 & 8-10N-5W)

COMPL. INT. (5-10N-5W) NCT 2640' FSL, NCT 0' FSL, NCT 660' FEL COMPL. INT. (8-10N-5W) NCT 0' FNL, NCT 150' FSL, NCT 660' FEL

NO OP. NAMÈD

REC 5/11/2018 (NORRIS)

SPACING - 654578 6/8/2018 - G58 - (640)(HOR) 5 & 8-10N-5W

EST WDFD

COMPL. INT. NCT 165' FNL & FSL, NCT 330' FEL & FWL

(EXIST CONCURRENTLY WITH PRODUCING NON-HORIZONTAL DRILLING AND SPACING UNITS AND COEXIST WITH EXISTING NON-HORIZONTAL DRILLING AND SPACING UNITS)

