API NUMBER: 051 24353

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: 05/16/2018 11/16/2018 **Expiration Date**

PERMIT TO DRILL

WELL LOCATION:	Sec:	28 T	wp: 1	0N	Rge:	6W	County	: GRAI	ΟΥ		
SPOT LOCATION:	SE	SW	SW		SW		FEET FROM QUARTER: SECTION LINES:	FROM	SOUTH 286	FROM	WEST
Lease Name: WHB CATTLE 33-10-6							We	ell No:	3WH		

Well will be 286 feet from nearest unit or lease boundary.

Depth

Depth to base of Treatable Water-Bearing FM: 100

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

WHB CATTLE LP 3000 NE 63RD STREET OKLAHOMA CITY OK 73121

Formation(s) (Permit Valid for Listed Formations Only): Name Depth Name WOODFORD 1 10540 6

2 7 3 8 4 9 10

Spacing Orders: Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201803604 Special Orders:

201803601

Ground Elevation: 1311

Surface Casing: 1500

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

Approved Method for disposal of Drilling Fluids: PIT 1 INFORMATION Type of Pit System: ON SITE A. Evaporation/dewater and backfilling of reserve pit. Type of Mud System: WATER BASED B. Solidification of pit contents.

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y H. SEE MEMO Within 1 mile of municipal water well? N

Wellhead Protection Area?

255248

Total Depth: 15793

is located in a Hydrologically Sensitive Area.

Category of Pit: 1B Liner required for Category: 1B Pit Location is AP/TE DEPOSIT Pit Location Formation: TERRACE D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-34512 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 AP/TE DEPOSIT
Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 33 Twp 10N Rge 6W County **GRADY** Spot Location of End Point: SE SW SW SW Feet From: SOUTH 1/4 Section Line: 65 Feet From: WEST 1/4 Section Line: 400

Depth of Deviation: 9827 Radius of Turn: 573 Direction: 185

Total Length: 5066

Measured Total Depth: 15793

True Vertical Depth: 10540

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

Notes:

MEMO

Category Description

DEEP SURFACE CASING 5/11/2018 - 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 5/11/2018 - 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

5/11/2018 - G71 - PIT 1 & 2 - CONCRETE-LINED PIT PER OPERATOR REQUEST; PIT 2 - OBM TO

VENDOR, OBM CUTTINGS PER DISTRICT

PENDING CD - 201803601 5/15/2018 - G75 - 33-10N-6W

XOTHER X255248 WDFD 2 WELLS NO OP. NAMED HEARING 5-29-2018

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.

051 24353 WHB CATTLE 33-10-6 3WH

Category Description

5/15/2018 - G75 - (E.O.) 33-10N-6W XOTHER PENDING CD - 201803604

X255248 WDFD

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

NO OP. NAMED REC 5-11-2018 (NORRIS)

SPACING - 255248 5/15/2018 - G75 - (640) 33-10N-6W

EXT OTHERS

EXT 242927 WDFD, OTHERS

