API NUMBER: 017 25309 A

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

Approval Date:	11/02/2018
Expiration Date:	05/02/2020

Horizontal Hole Oil & Gas

Amend reason: OCC CORRECTION TO CORRECT SURFACE HOLE LOCATION

AMEND PERMIT TO DRILL

WELL LOCATION:	Sec:	05	Twp:	10N	Rge:	7W	County:	CAI	NADIAN
SPOT LOCATION:	NW	NE	N/	N	NW		FEET FROM QUARTER:	FROM	NORTH

FEET FROM QUARTER: FROM NORTH FROM WEST SECTION LINES: 260 785

Lease Name: MAD PLAY 5-8-10-7 Well No: 2MXH Well will be 260 feet from nearest unit or lease boundary.

Operator ROAN RESOURCES LLC Telephone: 4052412150 OTC/OCC Number: 24127 0

ROAN RESOURCES LLC 14701 HERTZ QUAIL SPRINGS PKWY

OKLAHOMA CITY, OK 73134-2641

GARY G MARGARET R STRAKA 9305 REFORMATORY STREET

TRUSTEES OF THE STRAKS GRANTOR TRUST 7/21/2015

UNION CITY OK 73090

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

Name Depth Name Depth MISSISSIPPI LIME 11029 1 6 2 7 8 3 4 9 5 10 107705 Spacing Orders: Location Exception Orders: Increased Density Orders: 98732

Pending CD Numbers: 201807939

201807940 201807945 201807946

Total Depth: 19949 Ground Elevation: 1255 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 300

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

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

Chlorides Max: 30000 Average: 5000

PIT 1 INFORMATION

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: 1A

Liner required for Category: 1A

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-35583

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?

is located in a Hydrologically Sensitive Area.

Category of Pit: 3

Liner required for Category: 3 Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 08 Twp 10N Rge 7W County CANADIAN

W/2 Spot Location of End Point: W2 F2 W2 Feet From: NORTH 1/4 Section Line: 2640 Feet From: WEST 1/4 Section Line: 800

Depth of Deviation: 11000 Radius of Turn: 749 Direction: 179

Total Length: 7772

Measured Total Depth: 19949 True Vertical Depth: 11029 End Point Location from Lease. Unit, or Property Line: 800

Notes:

MEMO

Category Description

DEEP SURFACE CASING 10/25/2018 - GA8 - 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 10/25/2018 - GA8 - 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

10/25/2018 - GA8 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM

RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201807939 10/26/2018 - G58 - (I.O.) 5 & 8-10N-7W

EST MULTIUNIT HORIZONTAL WELL

X107705 MSSLM 5-10N-7W X98732 MSSLM 8-10N-7W

66% 5-10N-7W 34% 8-10N-7W NO OP. NAMED

REC 10/16/2018 (DUNN)

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.

017 25309 MAD PLAY 5-8-10-7 2MXH

Category Description

PENDING CD - 201807940 10/26/2018 - G58 - (I.O.) 5 & 8-10N-7W

X107705 MSSLM 5-10N-7W

X98732 MSSLM 8-10N-7W

COMPL. INT. 5-10N-7W NCT 0' FSL, NCT 150' FNL, NCT 785' FWL COMPL. INT. 8-10N-7W NCT 0' FNL, NCT 1320' FSL, NCT 785' FWL

NO OP. NAMED

REC 10/16/2018 (DUNN)

PENDING CD - 201807945 10/26/2018 - G58 - 5-10N-7W

X107705 MSSLM 2 WELLS

NO OP. NAMED REC 10/16/2018 (DUNN)

PENDING CD - 201807946 10/26/2018 - G58 - 8-10N-7W

X98732 MSSLM 2 WELLS

NO OP. NAMED

REC 10/16/2018 (DUNN)

SPACING - 107705 10/26/2018 - G58 - (640) 5 & 8-10N-7W

CONFIRMS SP ORDER 98732 EXT 98732 MSSLM, OTHERS

SPACING - 98732 10/26/2018 - G58 - (640) 8-10N-7W

EST MSSLM, OTHÈRS