API NUMBER: 017 25261 A

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

Approval Date: 08/28/2018
Expiration Date: 02/28/2020

Horizontal Hole Oil & Gas

Amend reason: CORRECT WELL NAME AND BHL

## AMEND PERMIT TO DRILL

AMENO I ENVILLE						
WELL LOCATION: Sec	:: 05 Twp: 11N Rge: 5V	/ County: CANAD	IAN			
SPOT LOCATION: NE			ORTH FROM W	EST		
		SECTION LINES: 27	75 10	145		
Lease Name: SWITZ	ZER 5-8-11-5	Well No: 4	MXH	Well will be	275 feet from nearest unit or lease boundary.	
Operator RC Name:	DAN RESOURCES LLC		Telephone: 40524	<b>1</b> 12150	OTC/OCC Number: 24127 0	
ROAN RESOL				DWAIN SWITZER LIV	VING TRUST ETAL	
14701 HERTZ QUAIL SPRINGS PKWY				1200 SYCAMORE		
OKLAHOMA CITY, OK 73		73134-2641		WEATHERFORD	OK 73096	
Name  1 MISSI 2 3 4 5	Permit Valid for Listed For SSIPPIAN Spacing	mations Only):  Depth  8450  Location Exception Or	6 7 8 9 10	Name	Depth Increased Density Orders:	
Pending CD Numbers:	201805959 201805960 201805961 201805962 201806672 201807889			ę	Special Orders:	
Total Depth: 18986	Ground Elevation: 13	31 Surface Ca	asing: 1500	Depth	n to base of Treatable Water-Bearing FM: 1160	
Under Federal Jurisdiction: No Fresh Wa		Fresh Water So	upply Well Drilled: N	No	Surface Water used to Drill: No	
PIT 1 INFORMATION			Approved Method for disposal of Drilling Fluids:			

PIT 1 INFORMATION

Type of Pit System: ON SITE

Type of Mud System: WATER BASED

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

Chlorides Max: 5000 Average: 3000

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

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

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

H. SEE MEMO

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.

PERMIT NO: 18-35155

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: 1A

Liner required for Category: 1A

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

## **HORIZONTAL HOLE 1**

Sec 08 Twp 11N Rge 5W County CANADIAN

Spot Location of End Point: SW SE SW SW
Feet From: SOUTH 1/4 Section Line: 65
Feet From: WEST 1/4 Section Line: 1600

Depth of Deviation: 7757 Radius of Turn: 573

Direction: 181

Total Length: 10329

Measured Total Depth: 18986
True Vertical Depth: 8450
End Point Location from Lease,
Unit, or Property Line: 65

Notes:

**MEMO** 

Category Description

DEEP SURFACE CASING 8/9/2018 - 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 8/9/2018 - 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

8/9/2018 - G71 - PITS 1 & 2 - CONCRETE LINED PIT PER OPERATOR REQUEST, PIT 2 - OBM

RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201805959 8/14/2018 - G57 - (E.O.)(640)(HOR) 5-11N-5W

VAC 152508/152860 MSSLM NE4 & S2 SW4

EXT 676879 MSSP, OTHER POE TO BHL NLT 660' FB

(COEXIST WITH SP. 152508/152860 MSSLM NW4, SE4, N2 SW4)

**REC 8-7-2018 (JACKSON)** 

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 25261 SWITZER 5-8-11-5 4MXH

Category Description

PENDING CD - 201805960 8/14/2018 - G57 - (E.O.)(640)(HOR) 8-11N-5W

VAC 164529/167828 MSSLM N2 NE4 VAC 169323 MSSLM S2 NE4 VAC 151845 MSSLM S2 EXT 676879 MSSP, OTHER POE TO BHL NLT 660' FB

(COEXIST W/SP. ORDER 151845 NW4)

**REC 8-7-2018 (JACKSON)** 

PENDING CD - 201805961 8/14/2018 - G57 - (E.O.) 5 & 8-11N-5W

EST MULTIUNIT HORIZONTAL WELL X201805959 MSSP 5-11N-5W X201805960 MSSP 8-11N-5W

50% 5-11N-5W 50% 8-11N-5W

ROAN RESOURCES, LLC. REC 8-7-2018 (JACKSON)

PENDING CD - 201805962 8/14/2018 - G57 - (E.O.) 5 & 8-11N-5W

X201805959 MSSP 5-11N-5W X201805960 MSSP 8-11N-5W

COMPL. INT. (5-11N-5W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (8-11N-5W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL

NO OP. NAMÈD

**REC 8-7-2018 (JACKSON)** 

PENDING CD - 201806672 8/17/2018 - G57 - (E.O.) 5 & 8-11N-5W

X165:10-3-28(C)(2)(B) MSSP (SWITZER 5-8-11-5 1MXH) MAY BE CLOSER THAN 600' TO THE C A

HENDERSON 3 & BUDDY PHILLIPS 1

ROAN RESOURCES, LLC. REC 8-27-2018 (P. PORTER)

PENDING CD - 201807889 10/4/2018 - G57 - (I.O.) 5 & 8-11N-5W

X165:10-3-28(C)(2)(B) MSSP & WDFD (SWITZER 5-8-11-5 4MXH) MAY BE CLOSER THAN 600' TO

THE C A HENERSON #2 ROAN RESOURCES, LLC. REC. 10-23-2018 (DENTON)

