

API NUMBER: 049 25129 B

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

Approval Date: 05/09/2017  
Expiration Date: 11/09/2017

Horizontal Hole Oil & Gas

Amend reason: CHANGE WELL NUMBER; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 32 Twp: 4N Rge: 4W County: GARVIN  
SPOT LOCATION: ☐ SE ☐ NE ☐ NW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 500 1065

Lease Name: CLYDESDALE

Well No: 1-29-20UWH

Well will be 500 feet from nearest unit or lease boundary.

Operator Name: RIMROCK RESOURCE OPERATING LLC

Telephone: 9183014700

OTC/OCC Number: 23802 0

RIMROCK RESOURCE OPERATING LLC  
20 E 5TH ST STE 1300  
TULSA, OK 74103-4462

ERIC & MELANIE NEIL  
11056 E. COUNTY RD. 1540  
LINDSAY OK 73052

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

| Name       | Depth | Name | Depth |
|------------|-------|------|-------|
| 1 WOODFORD | 13472 | 6    |       |
| 2          |       | 7    |       |
| 3          |       | 8    |       |
| 4          |       | 9    |       |
| 5          |       | 10   |       |

Spacing Orders: 662776  
665590  
668403

Location Exception Orders: 667481

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 22900

Ground Elevation: 1120

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 330

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

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

PERMIT NO: 17-32459

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec 20 Twp 4N Rge 4W County GARVIN

Spot Location of End Point: SE SW NW NW

Feet From: NORTH 1/4 Section Line: 1180

Feet From: WEST 1/4 Section Line: 350

Depth of Deviation: 12937

Radius of Turn: 477

Direction: 350

Total Length: 9214

Measured Total Depth: 22900

True Vertical Depth: 13472

End Point Location from Lease,  
Unit, or Property Line: 350

Notes:

Category

Description

DEEP SURFACE CASING

5/4/2017 - 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

5/4/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

LOCATION EXCEPTION - 667481

2/28/2018 - G75 - (I.O.) 20 & 29-4N-4W  
X665590 WDFD 20-4N-4W  
X662776 WDFD 29-4N-4W  
COMPL. INT. (29-4N-4W) NCT 165' FSL, NCT 0' FNL, NCT 350' FWL  
COMPL. INT. (20-4N-4W) NCT 0' FSL, NCT 1180' FNL, NCT 350' FWL  
RIMROCK OP. PARTNERS, LLC \*\*  
8-25-2017

\*\* S/B RIMROCK RESOURCE OP., LLC; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER ATTORNEY FOR OPERATOR

MEMO

5/4/2017 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

SPACING - 662776

5/8/2017 - G75 - (640)(HOR) 29-4N-4W  
EST WDFD, OTHERS  
COMPL. INT. NCT 165' FNL & FSL, NCT 330' FEL & FWL

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.

049 25129 CLYDESDALE 1-29-20UWH

| Category         | Description   |
|------------------|---|
| SPACING - 665590 | 7/20/2017 - G75 - (640)(HOR) 20-4N-4W<br>EST OTHERS<br>EXT 616916 WDFD<br>COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL<br>(COEXIST SP. ORDER # 352916 WDFD)   |
| SPACING - 668403 | 2/28/2018 - G75 - (I.O.) 20 & 29-4N-4W<br>EST MULTIUNIT HORIZONTAL WELL<br>X665590 WDFD 20-4N-4W<br>X662776 WDFD 29-4N-4W<br>56% 29-4N-4W<br>44% 20-4N-4W<br>RIMROCK OP. PARTNERS, LLC **<br>9-22-2017<br><br>** S/B RIMROCK RESOURCE OP., LLC; TO BE CORRECTED AT HEARING FOR FINAL ORDER<br>PER ATTORNEY FOR OPERATOR |

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