

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

API NUMBER: 049 25115

Approval Date: 03/20/2017  
Expiration Date: 09/20/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 4N Rge: 3W County: GARVIN  
SPOT LOCATION:  SW  SW  SW  SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 300 2440

Lease Name: THOROUGHbred Well No: 1-18-07WH Well will be 300 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

JOHATHAN RINN  
4395 S. 216 E. AVENUE  
BROKEN ARROW OK 74014

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8426	6	
2	WOODFORD	8663	7	
3	HUNTON	8883	8	
4			9	
5			10	

Spacing Orders: 657714 Location Exception Orders: 660939 Increased Density Orders:  
657678  
660938

Pending CD Numbers: Special Orders:

Total Depth: 18550 Ground Elevation: 1003 **Surface Casing: 450** Depth to base of Treatable Water-Bearing FM: 250

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

PIT 1 INFORMATION

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? Y

Wellhead Protection Area? Y

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: PURCELL

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32284  
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? Y

Wellhead Protection Area? Y

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: PURCELL

HORIZONTAL HOLE 1

Sec 07 Twp 4N Rge 3W County GARVIN

Spot Location of End Point: NW NW NW NE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 2586

Depth of Deviation: 8200

Radius of Turn: 509

Direction: 359

Total Length: 9550

Measured Total Depth: 18550

True Vertical Depth: 8883

End Point Location from Lease,  
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

3/13/2017 - 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 - 660939

3/20/2017 - G60 - (I.O.) 7 & 18-4N-3W  
X657714 MSSP, WDFD, HNTN (18-4N-3W)  
X657678 MSSP, WDFD, HNTN (7-4N-3W)  
COMPL. INT. (18-4N-3W) NCT 165' FSL, NCT 0' FNL, NCT 2526' FEL \*\*  
COMPL. INT. (7-4N-3W) NCT 0' FSL, NCT 165' FNL, NCT 2610' FWL \*\*  
RIMROCK RESOURCE PARTNERS, LLC  
2/10/17

\*\*COMP. INT. WILL BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR - LEGAL IS 330' FEL/FWL

MEMO

3/13/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PUBLIC WATER SUPPLY WELL

3/13/2017 - G71 - GARVIN CO RWD #2 - 1 PWS/WPA, SW/4 19-4N-8W

This permit does not address the right of entry or settlement of surface damages.

049 25115 THOROUGHbred 1-18-07WH

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

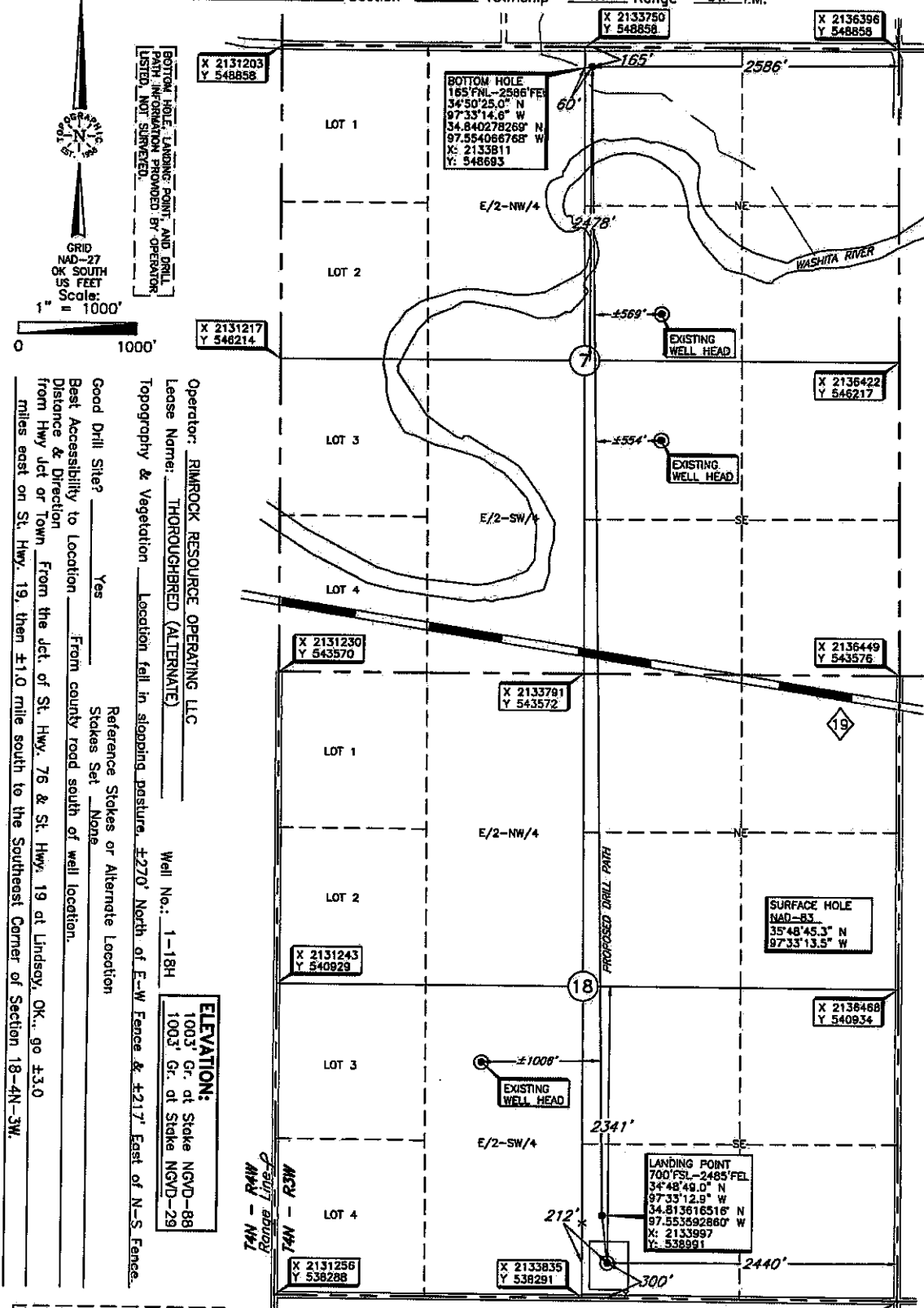
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
SPACING - 657678	3/20/2017 - G60 - (640)(HOR) 7-4N-3W EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH SP. ORDER 20066/486479 HNTN; SP. ORDER 99340 SCMR NE4 NW4; SP. ORDER 283466 SCMR NW4 NW4, S2 NW4; SP. ORDER 256609 SCMR SW4; SP. ORDER 333405 SCMR E2 SE4; SP. ORDER 443670 SCMR, WDFD E2 NE4; SP. ORDER 503613 SCMR W2 NE4; SP. ORDER 444038 WDFD E2 SE4; SP. ORDER 477551 SW4 NE4 WDFD)
SPACING - 657714	3/20/2017 - G60 - (640)(HOR) 18-4N-3W EST MSSP, WDFD, HNTN COMPL. INT. (MSSP, HNTN) NLT 660' FB COMPL. INT. (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL (COEXIST WITH SP. ORDER 21167 HNTN NE4; SP. ORDER 231057 SCMR, BDRC, CMNL SE4; SP. ORDER 256609 SCMR NW4; SP. ORDER 291135 SCMR, HNTN SW4; SP. ORDER 332496 HNTN NW4; SP. ORDER 339534 SCMR W2 NE4; SP. ORDER 389500 WDFD SW4)
SPACING - 660938	3/20/2017 - G60 - (I.O.) 7 & 18-4N-3W EST MULTIUNIT HORIZONTAL WELL X657714 MSSP, WDFD, HNTN (18-4N-3W) X657678 MSSP, WDFD, HNTN (7-4N-3W) (MSSP AND HNTN ARE ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 50% 18-4N-3W 50% 7-4N-3W RIMROCK RESOURCES PARTNERS, LLC 2/10/17
SURFACE CASING	3/13/2017 - G71 - MIN. 400' PER ORDER 64240
WATERSHED STRUCTURE	3/13/2017 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 238-7233 PRIOR TO DRILLING

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.

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
 6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. 1293 LS

GARVIN County, Oklahoma  
 300' FSL - 2440' FEL Section 18 Township 4N Range 3W I.M.



THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY.

**DATUM:** NAD-27  
**LAT:** 34°48'45.1"N  
**LONG:** 97°33'12.4"W  
**LAT:** 34.812516807°N  
**LONG:** 97.553439111°W  
**STATE PLANE COORDINATES (US FEET):**  
**ZONE:** OK SOUTH  
**X:** 2134045  
**Y:** 538591

Date of Drawing: Feb. 15, 2017  
 Invoice # 269628 Date Staked: Feb. 9, 2017 JGW

**CERTIFICATE:**  
 I, Thomas L. Howell an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.  
Thomas L. Howell  
 Oklahoma Lic. No. 1433

