

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

API NUMBER: 049 25108

Approval Date: 02/21/2017
Expiration Date: 08/21/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 26 Twp: 2N Rge: 2W County: GARVIN
SPOT LOCATION: NE SW SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 359 400

Lease Name: MOTE Well No: 1-26-23H Well will be 359 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

W.R. MOTE
140 SW 16TH
MOORE OK 73160

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

	Name	Depth	Name	Depth
1	SYCAMORE	7580	6	
2	WOODFORD	7730	7	
3	HUNTON	7970	8	
4			9	
5			10	

Spacing Orders: 653715
657600
659250

Location Exception Orders: 659903

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 17700

Ground Elevation: 1016

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 190

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: GARBER

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

PERMIT NO: 17-32182

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: GARBER

HORIZONTAL HOLE 1

Sec 23 Twp 2N Rge 2W County GARVIN

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 400

Depth of Deviation: 7300

Radius of Turn: 477

Direction: 2

Total Length: 9650

Measured Total Depth: 17700

True Vertical Depth: 7970

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

Notes:

Category

Description

DEEP SURFACE CASING

2/16/2017 - 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

2/16/2017 - 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 - 659903

2/21/2017 - G60 - (I.O. 26 & 23-2N-2W
X657600 SCMR, WDFD, HNTN (26-2N-2W)
X653715 SCMR, WDFD, HNTN (23-2N-2W)
SHL NCT 200' FSL, NCT 400' FWL (26-2N-2W)
COMPL. INT. (23-2N-2W) NCT 165' FNL, NCT 0' FSL, NCT 400' FWL
COMPL. INT. (26-2N-2W) NCT 0' FNL, NCT 165' FSL, NCT 400' FWL
RIMROCK RESOURCE OPERATING, LLC.
1/17/17

MEMO

2/16/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

SPACING - 653715

2/21/2017 - G60 - (640)(HOR) 23-2N-2W
EST SCMR, WDFD, HNTN
COMPL. INT. (SCMR, HNTN) NLT 660' FB
COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL
(COEXIST WITH SP. ORDER 2684733 SCMR, WDFD, HNTN)

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.

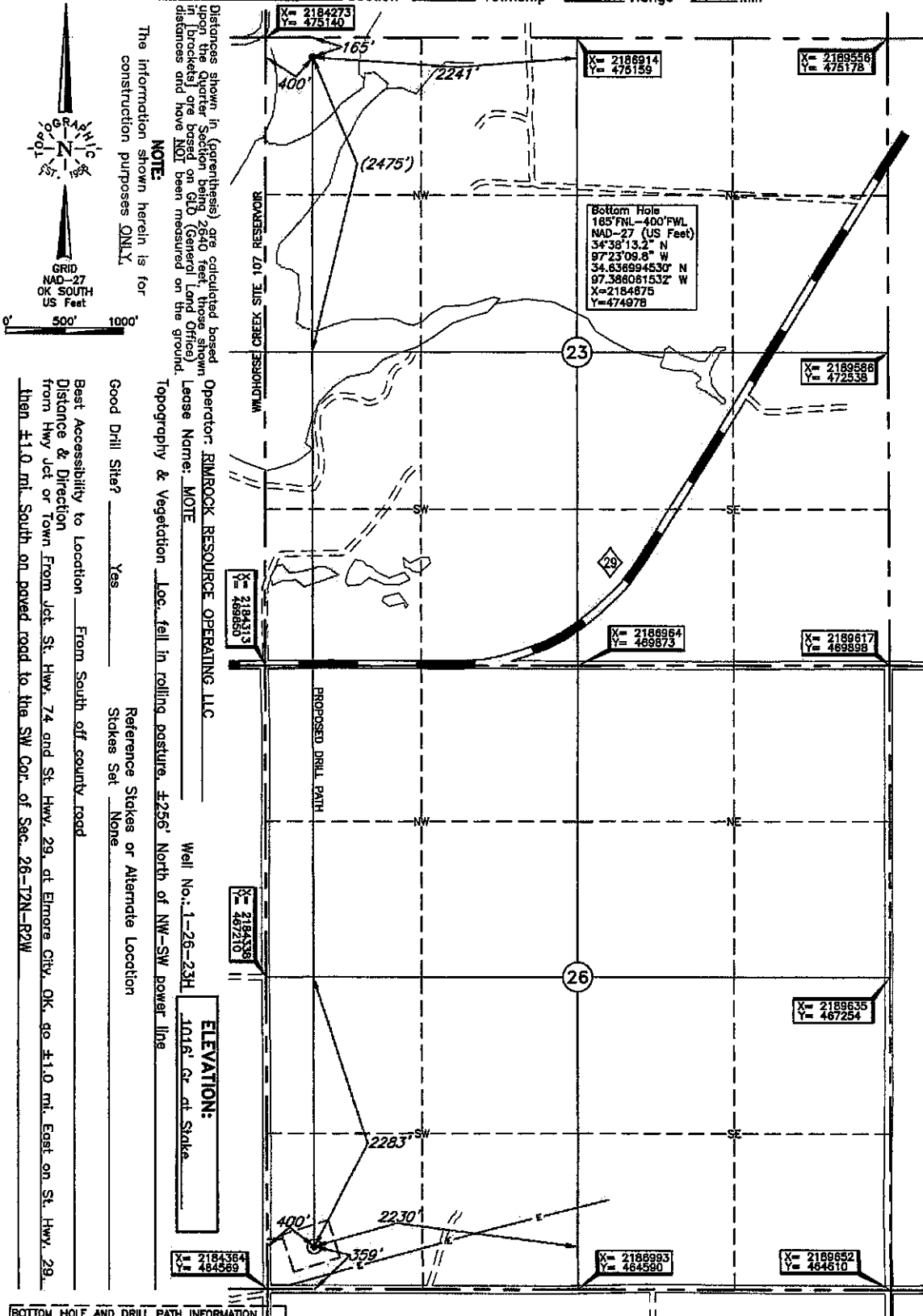
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
SPACING - 657600	2/21/2017 - G60 - (640)(HOR) 26-2N-2W EST SCMR, WDFD, HNTN COMPL. INT. (SCMR, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP. ORDER 262591 SCMR, HNTN E2; SP. ORDER 564356 SCMR, WDFD, HNTN NW4)
SPACING - 659250	2/21/2017 - G60 - (640) 26 & 23-2N-2W EST MULTIUNIT HORIZONTAL WELL X657600 SCMR, WDFD, HNTN (26-2N-2W) X653715 SCMR, WDFD, HNTN (23-2N-2W) 50% 26-2N-2W 50% 23-2N-2W RIMROCK RESOURCE OPERATING, LLC. 12/23/16
SURFACE CASING	2/16/2017 - G71 - MIN. 300' PER ORDER 24997
WATERSHED STRUCTURE	2/16/2017 - 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.

3504925108

GARVIN County, Oklahoma
 359'FSL -- 400'FWL Section 26 Township 2N Range 2W I.M.



Distances shown in parentheses are calculated based upon the Quarter Section being 2640 feet; those shown in brackets are based on G.D. (General Land Office) distances and have NOT been measured on the ground.
NOTE: The information shown herein is for construction purposes ONLY.

Operator: EMERALD RESOURCE OPERATING, LLC
 Lease Name: NOTE
 Topography & Vegetation: Loc. fell in rolling pasture, ±256' North of NW-SW power line
 Well No.: 1-26-23H 107.6' Cr. at Stake
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From South off county road
 Distance & Direction from Hwy Jet or Town: From Jet, St. Hwy. 74 and St. Hwy. 29, at Elmore City, OK, do ±1.0 mi. East on St. Hwy. 29, then ±1.0 mi. South on paved road to the SW Cor. of Sec. 26-T2N-R2W

BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

DATUM: NAD-27
 LAT: 34°36'33.8"N
 LONG: 97°23'09.5"W
 LAT: 34.609383913° N
 LONG: 97.385977919° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK SOUTH
 X: 2184761
 Y: 464930

Date of Drawing: Apr. 05, 2016
 Invoice # 258799 Date Staked: Mar. 31, 2016 AC

CERTIFICATE:
 I, Lee K. Goss an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

 Oklahoma Lic. No. 1778

