

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

API NUMBER: 049 25109

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

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 2N Rge: 2W County: GARVIN  
SPOT LOCATION:  NE  NW  SW  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 1150 590

Lease Name: MCCA Well No: 1-30-19H Well will be 590 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

JEFF A. MCCA & STACEY MCCA  
28262 N. COUNTY RD. 3120  
ELMORE CITY OK 73433

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

	Name	Depth	Name	Depth
1	SYCAMORE	8640	6	
2	WOODFORD	8840	7	
3	HUNTON	9080	8	
4			9	
5			10	

Spacing Orders: 657605 Location Exception Orders: 658434 Increased Density Orders:  
659204  
657607

Pending CD Numbers: Special Orders:

Total Depth: 17800 Ground Elevation: 1064 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 890

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: PURCELL

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 17-32028  
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: PURCELL

HORIZONTAL HOLE 1

Sec 19 Twp 2N Rge 2W County GARVIN

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 160

Feet From: WEST 1/4 Section Line: 440

Depth of Deviation: 8500

Radius of Turn: 478

Direction: 359

Total Length: 8550

Measured Total Depth: 17800

True Vertical Depth: 9080

End Point Location from Lease,  
Unit, or Property Line: 160

Notes:

Category

Description

COMPLETION INTERVAL

2/21/2017 - G64 - WILL COMMENCE NO CLOSER THAN 2000' FSL, 440' FWL 25-2N-2W PER OPERATOR

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 - 658434

2/21/2017 - G64 - (I.O.) 30 & 19-2N-2W  
X657607 SCMR, WDFD, HNTN 30-2N-2W  
X657605 SCMR, WDFD, HNTN 19-2N-2W  
SHL (30-2N-2W) NCT 2000' FSL, NCT 440' FWL \*\*  
COMPL. INT. (30-2N-2W) NCT 2000' FSL, NCT 0' FNL, NCT 440' FWL  
COMPL. INT. (19-2N-2W) NCT 0' FSL, NCT 165' FNL, NCT 440' FWL  
RIMROCK RESOURCE OPERATING, LLC  
11-30-2016

\*\*S/B 1150' FSL, 590' FWL; TO BE CORRECTED AT HEARING FOR FINAL ORDER PER OPERATOR

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

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.

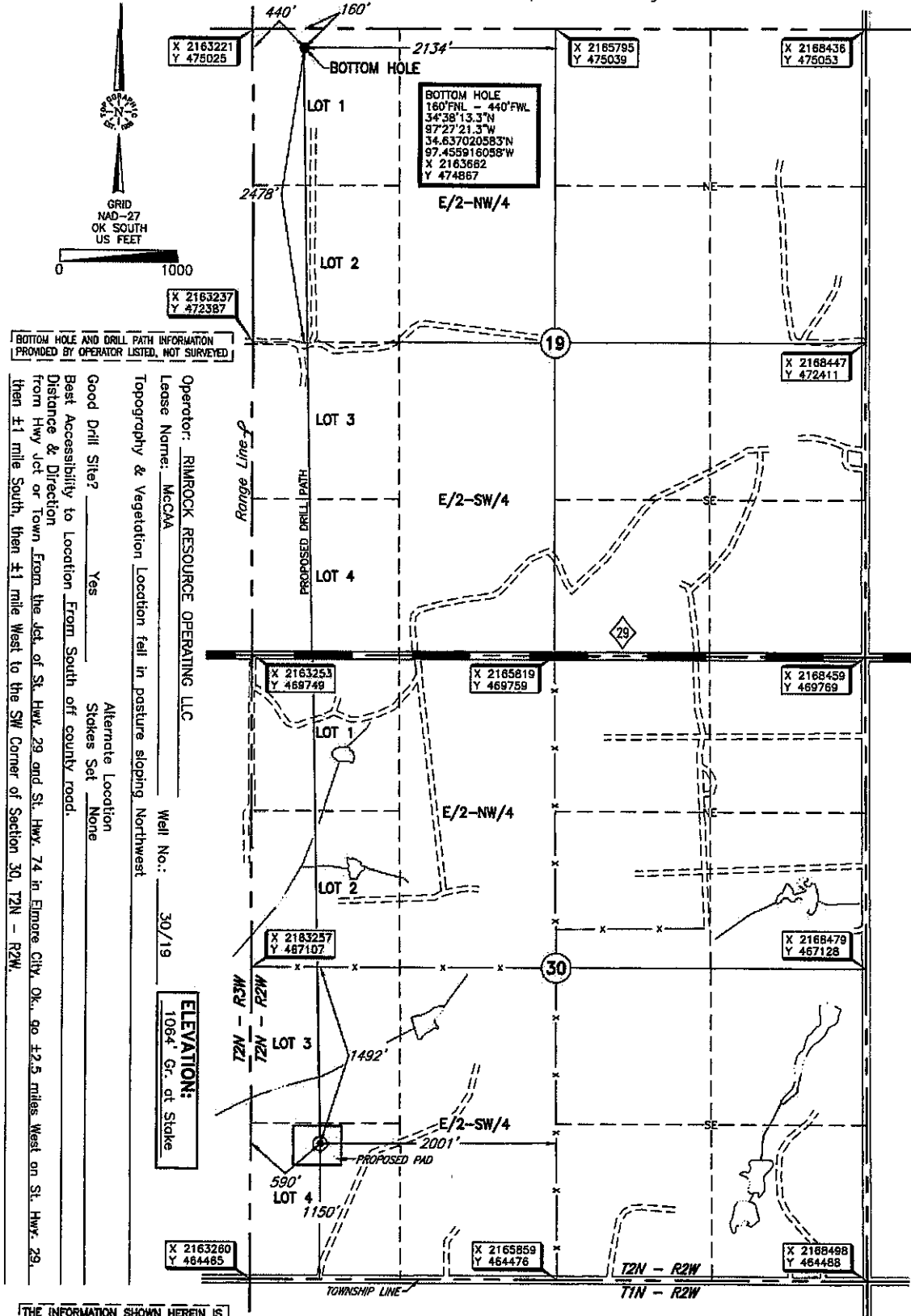
Category	Description
SPACING - 657605	2/21/2017 - G64 - (640)(HOR) 19-2N-2W EXT 647469 SCMR, WDFD, HNTN COMPL. INT. (SCMR, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST SP. ORDER 280645 SCMR, WDFD, HNTN)
SPACING - 657607	2/21/2017 - G64 - (640)(HOR) 30-2N-2W EXT 647469 SCMR, WDFD, HNTN COMPL. INT. (SCMR, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST SP. ORDER 277687 SCMR, WDFD, HNTN)
SPACING - 659204	2/21/2017 - G64 - (I.O.) 30 & 19-2N-2W EST MULTIUNIT HORIZONTAL WELL X657607 SCMR, WDFD, HNTN 30-2N-2W X657605 SCMR, WDFD, HNTN 19-2N-2W (SCMR, HNTN ASSOCIATED COMMON SOURCES OF SUPPLY TO WDFD) 39% 30-2N-2W 61% 19-2N-2W RIMROCK RESOURCE OPERATING, LLC 12-22-2016

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Office of the Conservation Division as to when Surface Casing will be run.

GARVIN

County, Oklahoma

1150' FSL -- 590' FWL Section 30 Township 2N Range 2W 1.M.



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

Operator: RIMROCK RESOURCE OPERATING LLC  
 Lease Name: McCA  
 Topography & Vegetation Location: fall in pasture sloping Northwest  
 Good Drill Site? Yes  
 Best Accessibility to Location: From South of county road.  
 Distance & Direction from Hwy. set or Town: From the let. of St. Hwy. 29 and St. Hwy. 74 in Elmore City, Ok., go ±2.5 miles West on St. Hwy. 29 then ±1 mile South, then ±1 mile West to the SW Corner of Section 30, T2N - R2W.  
 Alternate Location: Stakes Set None  
 Well No.: 30/19  
**ELEVATION:**  
1084' Gr. at Stake

**THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY**

DATUM: NAD-27  
 LAT: 34°36'41.8"N  
 LONG: 97°27'19.7"W  
 LAT: 34.611601623°N  
 LONG: 97.455461541°W  
 STATE PLANE COORDINATES (US FEET):  
 ZONE: OK SOUTH  
 X: 2163849  
 Y: 465618

Date of Drawing: November 15, 2016  
 Invoice # 267847 Date Staked: November 9, 2016 RKM

**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

