

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

API NUMBER: 073 25915

Approval Date: 01/31/2018

Expiration Date: 07/31/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 27 Twp: 15N Rge: 5W

County: KINGFISHER

SPOT LOCATION: ☐ SE ☐ SE ☐ SW ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 238 1216

Lease Name: HEROD

Well No: 2-27MH

Well will be 238 feet from nearest unit or lease boundary.

Operator Name: RED BLUFF RESOURCES OPERATING LLC

Telephone: 4056058360

OTC/OCC Number: 23828 0

RED BLUFF RESOURCES OPERATING LLC  
3030 NW EXPRESSWAY STE 650  
OKLAHOMA CITY, OK 73112-5447

ROBERT MELVIN HEROD  
401 N. GRANT  
CANTON OK 73724

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN (EX CHESTER)	7000	6	
2	WOODFORD	7217	7	
3	HUNTON	7275	8	
4			9	
5			10	

Spacing Orders: 668667  
628417

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201704266

Special Orders:

Total Depth: 12144

Ground Elevation: 1127

**Surface Casing: 700**

Depth to base of Treatable Water-Bearing FM: 540

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: SALT PLAINS

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 18-33826  
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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.

# HORIZONTAL HOLE 1

Sec 27 Twp 15N Rge 5W County KINGFISHER

Spot Location of End Point: N2 NE NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 990

Depth of Deviation: 6628

Radius of Turn: 382

Direction: 358

Total Length: 4916

Measured Total Depth: 12144

True Vertical Depth: 12000

End Point Location from Lease,

Unit, or Property Line: 165

## Notes:

### Category

### Description

GAS STORAGE UNITS

1/26/2018 - G71 - DRILLING IN OKLAHOMA NATURAL GAS STORAGE (ORDERS 46736) IN THE BARTLESVILLE; MUST NOTIFY GAS STORAGE OPERATOR PER OCC 165:10-3-5

HYDRAULIC FRACTURING

1/26/2018 - 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](http://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](http://FRACFOCUS.ORG)

PENDING CD - 201704266

1/31/2018 - G57 - (I.O.) 27-15N-5W  
X668667 MSNLC  
X628417 WDFD, HNTN  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL, NCT 330' FEL  
NO OP. NAMED  
REC 8-8-2017 (M. PORTER)

SPACING - 628417

1/31/2018 - G57 - (640)(HOR) 27-15N-5W  
VAC 17007 HNTN  
VAC 59280 MSSLM  
VAC 184771 HNTN  
EST MSSP (VAC BY 668667), WDFD, HNTN  
POE TO BHL (MSSP, HNTN) NLT 660' FB  
POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

SPACING - 668667

1/31/2018 - G57 - (640)(HOR) 27-15N-5W  
VAC 628417 MSSP  
EST MSNLC, OTHER  
POE TO BHL NCT 660' FB

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073 25915 HEROD 2-27MH