

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

API NUMBER: 071 24835

Approval Date: 12/30/2014
Expiration Date: 06/30/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 19 Twp: 25N Rge: 1E County: KAY
SPOT LOCATION: SE NE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 340 2415

Lease Name: COPPERHEAD Well No: 19-4S Well will be 340 feet from nearest unit or lease boundary.
Operator Name: RANGE PRODUCTION COMPANY LLC Telephone: 4058107341; 4058107 OTC/OCC Number: 22664 0

RANGE PRODUCTION COMPANY LLC
5600 N MAY AVE STE 350
OKLAHOMA CITY, OK 73112-3967

ROBERT OSBORN BURR
7881 WINDSONG DRIVE
WINDSOR CO 80350

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	4341	6
2			7
3			8
4			9
5			10

Spacing Orders: 603573

Location Exception Orders:

Increased Density Orders: 634142

Pending CD Numbers: 201408189

Special Orders:

Total Depth: 9600

Ground Elevation: 943

Surface Casing: 270

Depth to base of Treatable Water-Bearing FM: 220

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? 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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 14-29108

H. CLOSED SYSTEM=STEEL PITS REQUIRED (CHIKASKIA RIVER)

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 19 Twp 25N Rge 1E County KAY

Spot Location of End Point: SW SE SE SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 2200

Depth of Deviation: 3611

Radius of Turn: 750

Direction: 180

Total Length: 4811

Measured Total Depth: 9600

True Vertical Depth: 4361

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

Additional Surface Owner	Address	City, State, Zip
WILLIAM RAYMOND & LINDA W BUR	5477 GULFSTAR COURT	WINDSOR, CO 80528

Notes:

Category

Description

INCREASED DENSITY - 634142

12/30/2014 - G72 - W2, N2 NE, SW NE, NW SE 19-25N-1E
X 603573 MSSP,
1 WELL,
RANGE PRODUCTION COMPANY, LLC,
12/12/2014

PENDING CD - 201408189

12/30/2014 - G72 - 12/30/2014 - G72 - W2, N2 NE, SW NE, NW SE 19-25N-1E (I.O.)
X 603573 MSSP,
**SHL 212 FNL NCT 2225 FWL,
COMP INT COMMENCEMENT NCT 165 FNL NCT 660 FWL,
END NCT 165 FSL NCT 330 FEL,
NO OPER NAMED,
REC 11/24/2014 (P PORTER)
**SHL TO BE AMENDED AT FINAL HEARING PER OPERATOR.

SPACING -603573

12/30/2014 - G72 - (480 HOR) W2, N2 NE4, SW4 NE4 & NW4 SE4 19-25N-1E
EST MSSP, OTHERS (NLT 660' FB)
(SUPERSEDE NON-PRODUCING NON-HORIZONTAL SPACING) (COEXIST WITH PRODUCING
NON-HORIZONTAL SPACING)