

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

API NUMBER: 071 24755

Approval Date: 05/01/2014
Expiration Date: 11/01/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 25N Rge: 1W County: KAY
SPOT LOCATION: NW NE NE NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 212 2075

Lease Name: COPPERHEAD Well No: 13-3N Well will be 212 feet from nearest unit or lease boundary.
Operator Name: RANGE PRODUCTION COMPANY Telephone: 4058107341; 4058107 OTC/OCC Number: 22664 0

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

ROBERT DIEMER, JR & CAROL DIEMER
14211 SOUTH 13TH STREET
TONKAWA OK 74653

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	4355	6
2			7
3			8
4			9
5			10

Spacing Orders: 605337 Location Exception Orders: 201402548 Increased Density Orders: 612255

Pending CD Numbers:

Special Orders:

Total Depth: 9600 Ground Elevation: 947 **Surface Casing: 350** Depth to base of Treatable Water-Bearing FM: 300

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: 14-27063
H. CLOSED SYSTEM=STEEL PITS (REQUIRED - ARKANSAS RIVER, SALT FORK)

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 13 Twp 25N Rge 1W County KAY

Spot Location of End Point: NW NW NE NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 1400

Depth of Deviation: 3631

Radius of Turn: 750

Direction: 360

Total Length: 4791

Measured Total Depth: 9600

True Vertical Depth: 4381

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

Notes:

Category	Description
INCREASED DENSITY - 612255	4/29/2014 - G72 - 13-25N-1W X 605337 MSSP; 2 WELLS; RANGE PRODUCTION CO; 5/31-2013
PENDING CD - 201402548	4/29/2014 - G72 - 13-25N-1W X 605337 MSSP; SHL 212 FNL 2075 FWL; COMP INT. NCT 330 FSL NCT 165 FNL NCT 660 FWL; NO OPER NAMED; REC 4/28/2014 (LEVITT)
SPACING - 605337	4/29/2014 - G72 - (640) HORZ 13-25N-1W EXT 601337 MSSP; POE TO BHL NLT 660 FB; SUPERSED NON-PROD, NON- HORZ UNITS; COEXIST W/ PROD NON-HORZ UNITS.

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