

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

API NUMBER: 071 24832

Approval Date: 12/10/2014
Expiration Date: 06/10/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 24 Twp: 25N Rge: 1W County: KAY
SPOT LOCATION: NE NW NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 184 466

Lease Name: COPPERHEAD Well No: 13-1N Well will be 184 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 Q & CAROL A DIEMER, AS JOINT TENANTS
14211 S 13TH STREET
TONKAWA OK 74653

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	4382	6
2			7
3			8
4			9
5			10

Spacing Orders: 605337

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201408472
201408133

Special Orders:

Total Depth: 9600

Ground Elevation: 947

Surface Casing: 360

Depth to base of Treatable Water-Bearing FM: 310

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: 14-29107

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: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 500

Depth of Deviation: 3652

Radius of Turn: 750

Direction: 1

Total Length: 4770

Measured Total Depth: 9600

True Vertical Depth: 4402

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

Notes:

Category	Description
PENDING CD - 201408133	12/10/2014 - G91 - 13-25N-1W X605337 MSSP 2 WELLS NO OP. NAMED REC. 11-24-2014 (P. PORTER)
PENDING CD - 201408472	12/10/2014 - G91 - (I.O.) 13-25N-1W X605337 MSSP SHL 270 FSL 395 FWL ** COMP INT. NCT 165 FSL NCT 165 FNL NCT 330 FWL NO OP. NAMED REC. 12-9-2014 (P. PORTER)
	** SHL TO BE CORRECTED IN FINAL ORDER PER OPERATOR**
SPACING - 605337	12/10/2014 - G91 - (640)(HOR) 13-25N-1W EXT 601337 MSSP POE TO BHL NCT 660' FB (SUPERCEDE NON-DEVELOP NON-HORIZONTAL SPACING UNITS; COEXIST PRODUCING NON-HORIZONTAL SPACING UNITS)