

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

API NUMBER: 103 24631

Approval Date: 01/31/2014

Expiration Date: 07/31/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 24N Rge: 2W

County: NOBLE

SPOT LOCATION: NW NE NE NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 202 508

Lease Name: BADLANDS

Well No: 20-8S

Well will be 202 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

M.H. WILLIAMS, INDIVIDUALLY
8700 COUNTY RD 100
TONKAWA OK 74651

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	4516	6
2			7
3			8
4			9
5			10

Spacing Orders: 611442
600642

Location Exception Orders: 611444

Increased Density Orders: 611443

Pending CD Numbers:

Special Orders:

Total Depth: 9600

Ground Elevation: 1021

Surface Casing: 140

Depth to base of Treatable Water-Bearing FM: 90

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: ON SITE

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: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: WELLINGTON

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 13-23427

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 20 Twp 24N Rge 2W County NOBLE

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 500

Depth of Deviation: 3786

Radius of Turn: 750

Direction: 180

Total Length: 4636

Measured Total Depth: 9600

True Vertical Depth: 4536

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

Notes:

Category

Description

INCREASED DENSITY - 611443

1/31/2014 - G30 - 20-24N-2W
X600642/201302524 MSSP
1 WELL
RANGE PRODUCTION COMPANY
5/9/13

LOCATION EXCEPTION - 611444

1/31/2014 - G30 - (I.O.) 20-24N-2W
X600642/201302524 MSSP
SHL 225 FNL, 500 FEL**
COMP. INT. NCT 660 FNL, NCT 165 FSL, NCT 330 FEL
RANGE PRODUCTION COMPANY
5/9/13

**SHL TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR

SPACING - 600642

1/31/2014 - G30 - (640 HOR) 20-24N-2W
EST MSSP
POE TO BHL NLT 660' FB
(SUPERSEDE NON-PRODUCING NON-HORIZOTNAL SPACING NITS; COEXIST WITH PRODUCING NON-HORIZONTAL SPACING UNITS)

SPACING - 611442

1/31/2014 - G30 - (640) 20-24N-2W
CONFIRM SP. 600642 MSSP