

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

API NUMBER: 153 23555

Approval Date: 04/30/2014
Expiration Date: 04/30/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 23N Rge: 21W County: WOODWARD
SPOT LOCATION: SW SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 275 1420

Lease Name: AARON Well No: 1-29H Well will be 275 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

BETTY M. ROBERTS, TRUSTEE
2817 CHARDY DR.
WOODWARD OK 73801

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

Name	Depth	Name	Depth
1 MERAMEC	9089	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 101245
101496

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201308497
201308496

Special Orders:

Total Depth: 13000

Ground Elevation: 2057

Surface Casing: 330

Depth to base of Treatable Water-Bearing FM: 280

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: 8000 Average: 5000

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: 1B

Liner required for Category: 1B

Pit Location is BED AQUIFER

Pit Location Formation: OGALLALA

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

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

PERMIT NO: 14-26514

H. SOIL COMPACTED PIT, NOTIFY DISTRICT PRIOR TO TESTING SOIL PIT LINER

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 29 Twp 23N Rge 21W County WOODWARD

Spot Location of End Point: W2 SW SE SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1420

Depth of Deviation: 8446

Radius of Turn: 780

Direction: 180

Total Length: 3329

Measured Total Depth: 13000

True Vertical Depth: 9160

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category	Description
PENDING CD - 201308496	3/13/2014 - G30 - 29-23N-21W X101245/101496 MRMC 1 WELL NO OP. NAMED REC 4/23/14 (DECKER)
PENDING CD - 201308497	3/13/2014 - G30 - (I.O.) X101245/101496 MRMC SHL 275 FSL, 1420 FWL 20-23N-21W FIRST PERF NCT 330 FNL, NCT 660 FWL 29-23N-21W LAST PERF NCT 165 FSL, NCT 660 FWL 29-23N-21W NO OP. NAMED REC 4/23/14 (DECKER)
SPACING - 101245	3/13/2014 - G30 - (640) 29-23N-21W EXT OTHERS
SPACING - 101496	3/13/2014 - G30 - 29-23N-21W NPT 101245 TO EXT 87359 MRMC

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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.



RANGE RESOURCES

September 12, 2014

Oklahoma Corporation Commission
Oil & Gas Conservation Division
P. O. Box 52000
Oklahoma City, OK 73152-2000
Attention: Steve Vinje

RE: Aaron 1-29H
API No: 153-23555
Section 20-23N-21W
Woodward County, Oklahoma

Steve,

The permit for the above mentioned well is scheduled to expire on 10-30-14. Please be advised that Range would like to extend this permit for an additional six months. Thank you for your cooperation in this matter.

Sincerely,

RANGE PRODUCTION COMPANY, LLC

Carmen Ruiz
Regulatory Compliance Analyst I

/mp

surety exp. 7/7/15

Approved for 6 Month
Extension From
10-30-14
10-31-14 *UA*

RECEIVED

SEP 15 2014

OKLAHOMA CORPORATION
COMMISSION