

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: 10/30/2014

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 Telephone: 4058107341; 4058107 OTC/OCC Number: 22664 0

RANGE PRODUCTION COMPANY  
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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