

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

API NUMBER: 047 24960

Approval Date: 11/10/2014  
Expiration Date: 05/10/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 24N Rge: 7W County: GARFIELD  
SPOT LOCATION:  NE  NE  NW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 193 1275

Lease Name: ROTTWEILER Well No: 1-7H Well will be 193 feet from nearest unit or lease boundary.  
Operator Name: ARP OKLAHOMA LLC Telephone: 4124890311 OTC/OCC Number: 23072 0

ARP OKLAHOMA LLC  
425 HOUSTON ST STE 300  
FORT WORTH, TX 76102-3951

JOHN GEORGE & AUDREY HOFFSOMMER  
570 WYNGATE DR.  
RIVER FALLS WI 54022

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	5850	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 628892

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201407748

Special Orders:

Total Depth: 10785

Ground Elevation: 1200

**Surface Casing: 600**

Depth to base of Treatable Water-Bearing FM: 90

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is BED AQUIFER

Pit Location Formation: SALT PLAINS

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 14-28810

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 07 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: E2 SW SW SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 450

Depth of Deviation: 5600

Radius of Turn: 477

Direction: 185

Total Length: 4436

Measured Total Depth: 10785

True Vertical Depth: 5975

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

Additional Surface Owner	Address	City, State, Zip
DALE J. & DARLENE R. BLOMQUIST	305 LINN ST.	GREENFIELD, IA 50849
CARL DAVID & BRINDA HOFFSOMM	17220 18TH AV. W.	LYNNWOOD, WA 98037

Notes:

Category	Description
DEEP SURFACE CASING	11/10/2014 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
PENDING CD - 201407748	11/10/2014 - G91 - 7-24N-7W X628892 MSSP SHL NCT 140 FNL, NCT 140 FWL COMPL. INT. NCT 200 FNL, NCT 200 FSL, NCT 330 FWL NO OP. NAMED REC. 11-10-2014 (NORRIS)
SPACING - 628892	11/10/2014 - G91 - (640)(HOR) 7-24N-7W EXT 617429 MSSP POE TO BHL NCT 660' FB (SUPERCEDE NON-DEVELOP NON-HORIZONTAL SPACING UNITS; COEXIST PRODUCING NON-HORIZONTAL SPACING UNITS)

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