

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

API NUMBER: 047 24842

Approval Date: 04/23/2014  
Expiration Date: 10/23/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 24N Rge: 7W County: GARFIELD  
SPOT LOCATION:  SE  SE  SE  SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 173 2500

Lease Name: OTTERHOUND Well No: 4-8H Well will be 173 feet from nearest unit or lease boundary.  
Operator Name: ARP OKLAHOMA LLC Telephone: 8174397559 OTC/OCC Number: 23072 0

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

OVERTON LIMITED PARTNERSHIP  
P. O. BOX 635  
POND CREEK OK 73766

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

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	5870	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 67722

Location Exception Orders:

Increased Density Orders: 623752

Pending CD Numbers: 201402150

Special Orders:

Total Depth: 10844

Ground Elevation: 1186

**Surface Casing: 600**

Depth to base of Treatable Water-Bearing FM: 80

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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

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

PERMIT NO: 14-26652

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 08 Twp 24N Rge 7W County GARFIELD

Spot Location of End Point: W2 SE SE SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 2078

Depth of Deviation: 5449

Radius of Turn: 746

Direction: 180

Total Length: 4622

Measured Total Depth: 10844

True Vertical Depth: 5967

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

Notes:

Category	Description
DEEP SURFACE CASING	4/17/2014 - 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
INCREASED DENSITY - 623752	4/17/2014 - G30 - 8-24N-7W X67722 MSSLM 3 WELLS ARP OKLAHOMA, LLC 4/9/14
PENDING CD - 201402150	4/17/2014 - G30 - (I.O.) 8-24N-7W X67722 MSSLM SHL NCT 150 FSL, NCT 1320 FWL 5-24N-7W POE NCT 200 FNL, NCT 1320 FWL 8-24N-7W BHL NCT 200 FSL, NCT 1320 FWL 8-24N-7W NO OP. NAMED REC 4/21/14 (P. PORTER)
SPACING - 67722	4/17/2014 - G30 - (640) 8-24N-7W EST MSSLM, OTHERS