

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

API NUMBER: 047 25009

Approval Date: 02/04/2015
Expiration Date: 08/04/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 24N Rge: 7W County: GARFIELD
SPOT LOCATION: N2 N2 N2 NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 213 1320

Lease Name: ROTTWEILER Well No: 2-7H Well will be 213 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

THE D. DALE TURNER & NELDA K. TURNER REVOCABLE TRUST
1800 S. DESERT PALM AVE.
BROKEN ARROW OK 74012

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

| Name | Depth | Name | Depth |
|------|---------------|------|-------|
| 1 | MISSISSIPPIAN | 5900 | 6 |
| 2 | | | 7 |
| 3 | | | 8 |
| 4 | | | 9 |
| 5 | | | 10 |

Spacing Orders: 628892

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201500203
201500169

Special Orders:

Total Depth: 10645

Ground Elevation: 1202

Surface Casing: 600

Depth to base of Treatable Water-Bearing FM: 50

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: 15-29443

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: W2 SW SE SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 1030

Depth of Deviation: 5481

Radius of Turn: 475

Direction: 170

Total Length: 4418

Measured Total Depth: 10645

True Vertical Depth: 5970

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

Notes:

| Category | Description |
|------------------------|---|
| DEEP SURFACE CASING | 2/4/2015 - 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 - 201500169 | 2/4/2015 - G91 - (E.O.) 7-24N-7W X628892 MSSP 3 WELLS NO OP. NAMED REC. 2-3-2015 (NORRIS) |
| PENDING CD - 201500203 | 2/4/2015 - G91 - 7-24N-7W X628892 MSSP SHL NCT 100 FNL, NCT 100 FEL COMPL. INT. NCT 200 FNL, NCT 200 FSL, NCT 330 FEL NO OP. NAMED REC. 2-3-2015 (NORRIS) |
| SPACING - 628892 | 2/4/2015 - 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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