

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

API NUMBER: 047 24872

Approval Date: 05/29/2014  
Expiration Date: 11/29/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 24N Rge: 7W County: GARFIELD  
SPOT LOCATION:  SW  NE  NW  NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 378 664

Lease Name: OTTERHOUND Well No: 5-8H Well will be 378 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

MESSENGER FARMS, INC.  
8506 W. BLAINE  
C/O DENNIS JAY MESSENGER, PRESIDENT  
ENID OK 73703

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: 201403105 Special Orders:

Total Depth: 10693 Ground Elevation: 1182 **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: 14-27300  
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 SW SW

Feet From: SOUTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 664

Depth of Deviation: 5489

Radius of Turn: 747

Direction: 180

Total Length: 4458

Measured Total Depth: 10693

True Vertical Depth: 5973

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

Notes:

Category	Description
DEEP SURFACE CASING	5/28/2014 - 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	5/29/2014 - G72 - 08-24N-07W X 67722 MSSLM; 3 WELLS; ARP OKLAHOMA, LLC; 4/9/2014
PENDING CD - 201403105	5/29/2014 - G72 - 08-24N-07W X 67722 MSSLM; POE NCT 200 FNL NCT 660 FWL; BHL NCT 200 FSL NCT 660 FWL; NO OPER NAMED; REC 5/19/2014 (DECKER)
SPACING - 67722	5/29/2014 - G72 - (640) 08-24N-07W EST MSSLM, OTHERS

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.

API 04724872



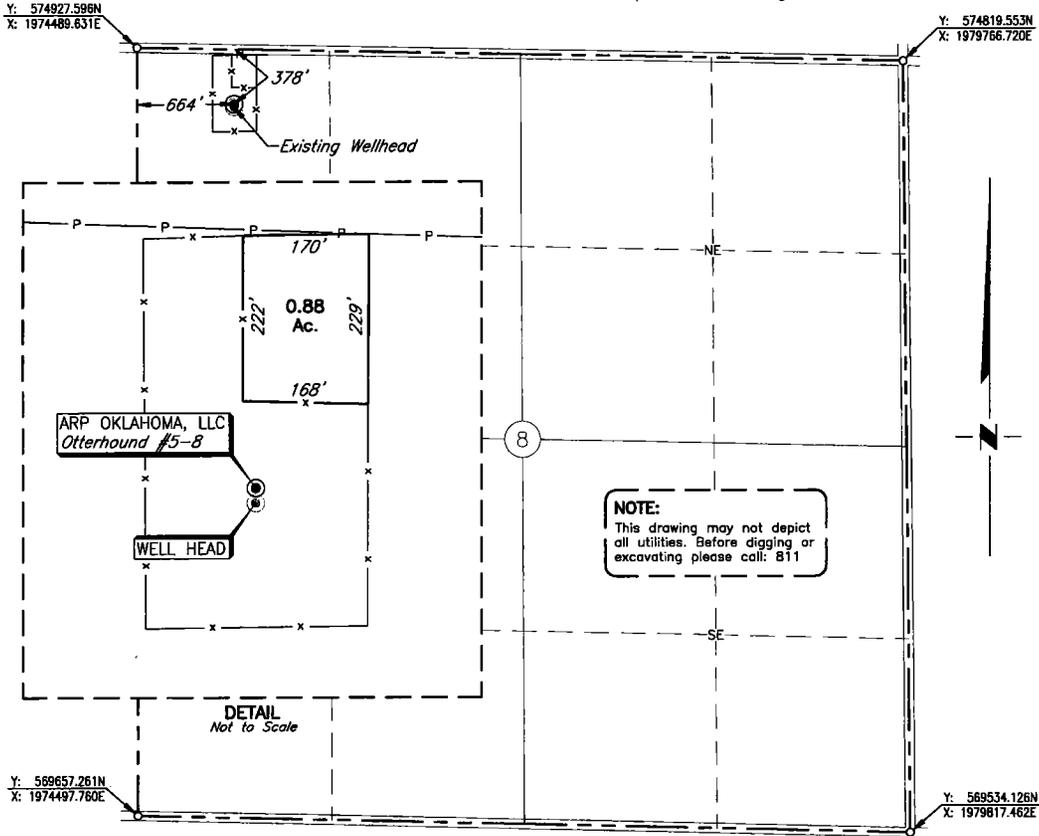
**CIMARRON**  
SURVEYING & MAPPING CO.

OKLAHOMA CITY, OK  
(405) 692-7348  
CIMARRONOKC.COM

C.A. No. 1780 Expires June 30, 2014

GARFIELD County, Oklahoma

378' FNL - 664' FWL Section 8 Township 24N Range 7W I.M.



Scale: 1" = 1000'

Date Staked: April 25, 2014

GPS Observation: Latitude 36°34'41.827" N  
Longitude 97°58'38.413" W

State Plane NAD83 Y: 574535.532N  
Oklahoma North Zone: X: 1975154.556E

Operator: ARP OKLAHOMA, LLC

Elevation: 1182'

Lease Name: OTTERHOUND

Well No.: 5-8

Topography & Vegetation: GRAVEL PAD

Alternate Location Stakes Set: No

Good Drill Site? Yes

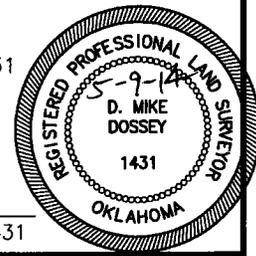
Best Accessibility to Location: From the North Line

Distance & Direction

from Hwy Jct or Town: From the town of Hillsdale; Thence north 1 mile; Thence east approx. 1/2 mile to the Northwest Corner of Section 8.

SURVEYOR'S CERTIFICATE:

I, D. MIKE DOSSEY, Registered Professional Land Surveyor, No. 1431 do hereby certify that the above described well location was carefully staked on the ground as shown and that all ties and distances shown are from existing lines of occupation.



JOB NO.:	141448			
DATE:	04/28/14	1	EXTENDED SITE	05/09/14 T.A.W.
DRAWN BY:	RLK	NO.	REVISION	DATE BY

*D. Mike Dossey*

D. MIKE DOSSEY R.P.L.S. # 1431