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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

October 19, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-8101300, issued to ARP MOUNTAINEER PRODUCTION, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

  
James Martin  
Chief

Operator's Well No: MM-6  
Farm Name: ATHEY, STEVEN  
**API Well Number: 47-8101300**  
**Permit Type: Plugging**  
Date Issued: 10/19/2015

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

81013007

WW-4B  
Rev. 2/01

1) Date September 16th, 2015  
2) Operator's  
Well No. MM-6  
3) API Well No. 47-81 - 01300

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_/ Gas X/ Liquid injection \_\_\_/ Waste disposal \_\_\_/  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_/ Shallow \_\_\_

5) Location: Elevation 2,070.68 Watershed Marsh Fork  
District Trap Hill County Raleigh Quadrangle Arnett

6) Well Operator ARP Mountaineer Production, LLC 7) Designated Agent CT Corporation System  
Address Park Place Corporate Centre One Address 5400 D Big Tyler Road  
1000 Commerce Drive 4th Floor, Pittsburg, PA 15275 Charleston, West Virginia 25313

8) Oil and Gas Inspector to be notified Name Gary Kennedy  
Address Box 268  
Nimitz WV, 25978  
9) Plugging Contractor Name Universal Well Services  
Address 14 Sewer Plant Road  
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
Move in rig up workover rig, Lower tubing and tag bottom, 1298'  
If fill is encountered, clean to as deep as reasonably achievable below lowermost coal.  
RIH with 2-3/8" tubing set off of bottom + or - two feet. Spot Balanced Plug using 50% excess in cement, totaling 115cu.ft of expanding cement  
Cement Blend (50/50 PozMix with 10% salt, 2% bentonite)  
TOOH w/tubing, WOC for 4hrs minimum  
RIH w/tubing, tag cement at or near 898', finish circulating cement to the surface with 200cu.ft of expanding cement  
Install permanent marker and reclaim location to WVDEP specifications

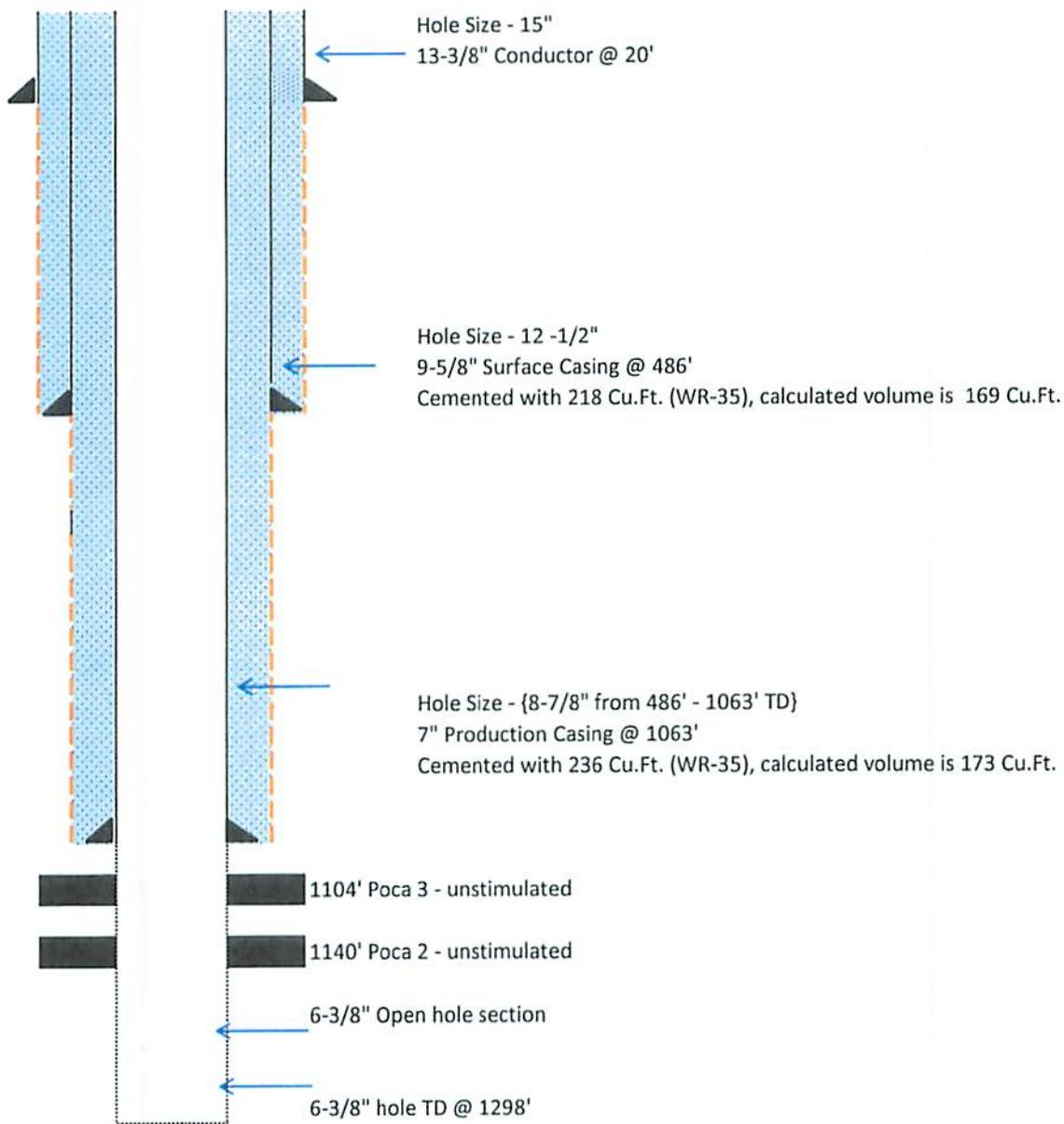
Received  
Office of Oil & Gas  
SEP 25 2015

6% bet between plugs

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gary Kennedy Date 9/24/15

MM-6  
Plug and Abandon Schematic  
API # 47-081-01300



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Office of Oil & Gas  
SEP 25 2015

*[Handwritten signature]*

8/013009

WR-35  
Rev (5-01)

DATE: March 11, 2005

API #: 47-08104508

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Office of Oil & Gas

MAR 18 2005

WV Department of  
Environmental Protection

Well Operator's Report of Well Work

Farm name: Steven Athey Operator Well No.: MM-6

LOCATION: Elevation: 2061.1' Quadrangle: Arnett

District: Trap Hill County: Raleigh  
Latitude: 0 Feet South of 37 Deg. 45 Min. 56.73 Sec.  
Longitude 0 Feet West of 81 Deg. 23 Min. 30.12 Sec.

Company: AMVEST Oil and Gas, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>One Bonr's Head Pointe</u>	<u>13 3/8"</u>	<u>20'</u>	<u>20'</u>	<u>N/A</u>
<u>Charlottesville, Virginia 22905</u>	<u>9 5/8"</u>	<u>486'</u>	<u>486'</u>	<u>218.3</u>
Agent: <u>Anthony A. Wilhoit</u>	<u>7"</u>	<u>1063'</u>	<u>1063'</u>	<u>236.6</u>
Inspector: <u>Richard Campbell</u>				
Date Permit Issued: <u>February 6, 2003</u>				
Date Well Work Commenced: <u>4/1/2003</u>				
Date Well Work Completed: <u>5/21/2003</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary x Cable <u>Rlg Horn #76</u>				
Total Depth (feet): <u>1298</u>				
Fresh Water Depth (ft.): <u>350'</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>574-576, 822-826, 858-862, 974-976, 1006-1007, 1104-1105, 1134-1140</u>				

OPEN FLOW DATA

Producing formation Pocahontas #2 and 3 Seams Pay zone depth (ft) 1104-1140

Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow N/A MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure 330 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow N/A MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

By: [Signature]  
Date: 3/11/05

Received  
Office of Oil & Gas  
SEP 25 2015

[Handwritten mark]

Well: MM-6  
Permit Number: 47-081-01300C  
District: Trap Hill  
County: Raleigh

**DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.**

Date: 9/23/2004

Well has been completed open hole without stimulation in the Pocahontas #2 and #3 seams

Item                      Planned                      Actual                      Treatment Remarks

Formation	Top	Bottom	Remarks
Clay	0	8	
Sand and Shale	8	324	water at 350'
Sand	324	463	
Shale	463	574	
Coal	574	576	
Sand	576	817	
Shale	817	822	
Coal	822	826	
Shale	826	858	
Coal	858	862	
Shale	862	898	
Sand	898	974	
Coal	974	976	
Shale	976	1008	
Coal	1008	1007	
Sand and Shale	1007	1104	
Coal	1104	1108	
Shale	1108	1134	
Coal	1134	1140	
Sand and Shale	1141	1250	
Redrock	1250		
TD	1298		

Received  
Office of Oil & Gas  
09/25/04

*WJK*



WW-4A  
Revised 6-07

1) Date: September 16th 2015  
2) Operator's Well Number  
MM-6  
3) API Well No.: 47 - 81 - 01300

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Steve Alhey</u>	Name <u>No Coal Operator</u>
Address <u>P.O. Box 96</u>	Address _____
<u>Glen Daniel, WV 25844</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration <u>✓</u>
Address _____	Name <u>Maple Meadow Mining Company</u>
	Address <u>899 Corporate Blvd</u>
	<u>Linthicum Heights, MD 21090</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration <u>✓</u>
Address <u>Box 266</u>	Name <u>Maple Meadow Mining Company</u>
<u>Nimitz WV, 25978</u>	Address <u>999 Corporate Blvd</u>
Telephone <u>(304)-382-8402</u>	<u>Linthicum Heights MD 21090</u>

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

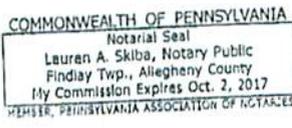
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator ARP MountaIner Production, LLC  
 By: John W. Crock  
 Its: VP, Environmental Health & Safety  
 Address Allan Resource Partners, LP Park Plaza Corporate Center One  
1000 Commerce Drive 4th Floor Pittsburgh, PA 15275  
 Telephone 412-200-7575

Subscribed and sworn before me this 21 day of September 2015  
Lauren A Skiba Notary Public  
 My Commission Expires October 2, 2017

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [dep@privacyofficer@wv.gov](mailto:dep@privacyofficer@wv.gov).



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**ARP Mountaineer Production, LLC**

Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH 5-6.5

Lime 2 Tons/acre or to correct to pH 6

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue or Orchard Grass	40		
Annual Rye Grass	5		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Henry Kennedy*

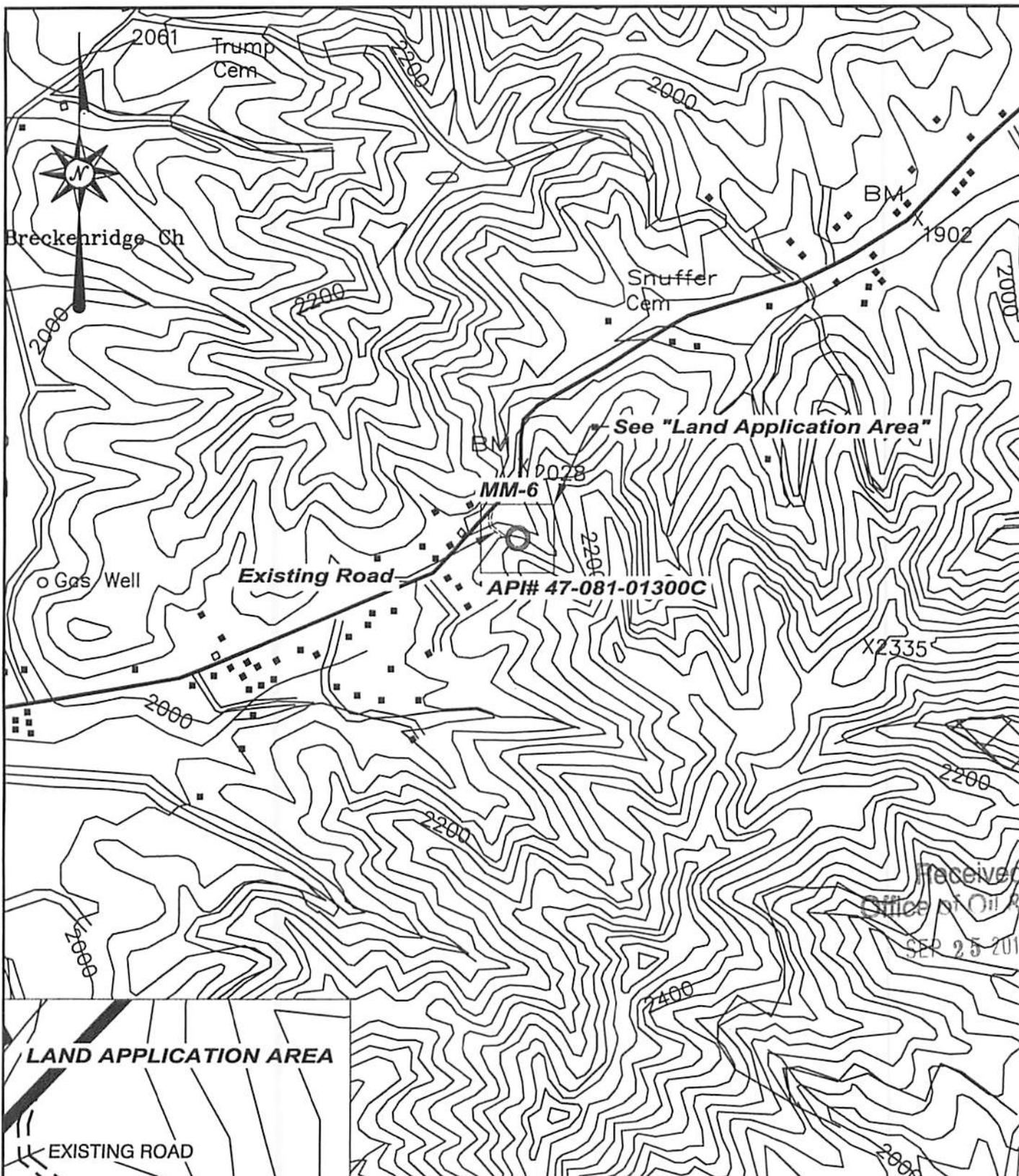
Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Inspector

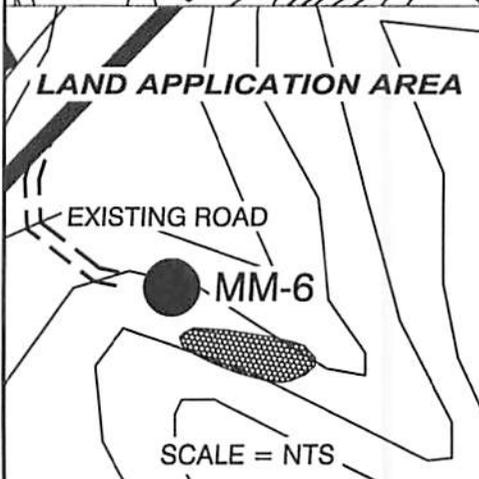
Date: 9/24/15

Field Reviewed? ( ) Yes ( ) No

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Office of Oil & Gas  
SEP 25 2015



<b>ARP Mountaineer Production, LLC</b> PARK PLACE CORPORATE CENTER ONE 1000 COMMERCE DRIVE 4th FLOOR, PITTSBURGH, PA 15275	
SITE PLAN MAP	WELL NO. MM-6 API #47-081-1300C
DATE: 9/9/15	 <b>TEE Engineering Company, Inc.</b> P.O. BOX 219, STANVILLE, KY. 41559 PHONE: (606)478-9024 320 CUTTERS HILL COURT, LEXINGTON, KY. 40509 PHONE: (859)263-5350
SCALE: 1" = 1000'	

*WHL*

Note:  
The property lines shown on the plan below were derived from the original location plat, by others. TEE Engineering Co., Inc., assumes no liability, and relinquishes no legal rights, in regard to work done by others.

Reckenridge Ch

Snuffer Cem

BM

1902

BM

2028

**EXISTING WELL**

**MM-6**

**API 47-081-01300C**

Gas Well

7.5'  
LOC.

PP1  
PK NAIL

N 64°59'59" W  
81.00'

**EXISTING WELL**  
**MM-6**  
**API 47-081-01300C**

S 65°00'00" E  
110.80'

PP2  
PK NAIL

REFERENCES

SCALE 1"=100'

WELL COORDINATES  
WV STATE PLANE  
NAD83 UTM ZONE 17  
N: 4,179,900.25  
E: 465,508.59

(+) DENOTES LOCATION OF WELL ON 7.5' TOPOGRAPHIC MAP



**TEE Engineering Company, Inc.**

P.O. BOX 219, STANVILLE, KY. 41659 PHONE: (606) 478-9024

320 CUTTERS HILL COURT, LEXINGTON, KY. 40509 PHONE: (859) 263-5350

ARP Mountaineer Production, LLC

Well No. **MM-6**

FILE NO. 1883-00

DRAWING NO. MM-6 PLUGGING PLAT

SCALE: 1" = 1,000'

MIN. DEGREE OF ACCURACY 1 : 2,500

PROVEN SOURCE OF ELEVATION

GPS STATION TEC-1 (ELEV. 2406.60)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

*Don F. Blackburn*  
(SIGNATURE)

R.P.E. \_\_\_\_\_

R.P.S. 1008



(SEAL)

**STATE OF WEST VIRGINIA**

DATE SEPTEMBER 9, 2015

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OPERATOR'S WELL NO. MM-6

**OFFICE OF OIL AND GAS**

API WELL NO. 47 - 081 - 01300C  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS  CBM \_\_\_\_\_ LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_

LOCATION: ELEVATION 2,067.51' NORTHING 4179900.25 EASTING 465508.59 ZONE 17 NAD83 UTM

DISTRICT TRAP HILL WATER SHED MARSH FORK

QUADRANGLE ARNETT COUNTY RALEIGH

SURFACE OWNER STEVEN ATHEY ACREAGE 31.25

CBM ROYALTY OWNER CYRUS SNUFFER HEIRS LEASE ACREAGE 374.688

LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW  
FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG \_\_\_\_\_

TARGET FORMATION POCAHONTAS - 2 ESTIMATED DEPTH 1,298'

WELL OPERATOR ARP MOUNTAINEER PRODUCTION, LLC DESIGNATED AGENT CT CORPORATION SYSTEM

ADDRESS PARK PLACE CORPORATE CENTER ONE ADDRESS 5400 D BIG TYLER ROAD

1000 COMMERCE DRIVE 4th FLOOR, PITTSBURGH, PA 15275 CHARLESTON, WV 25313