



west virginia department of environmental protection

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

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.

10/23/2015

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

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.

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

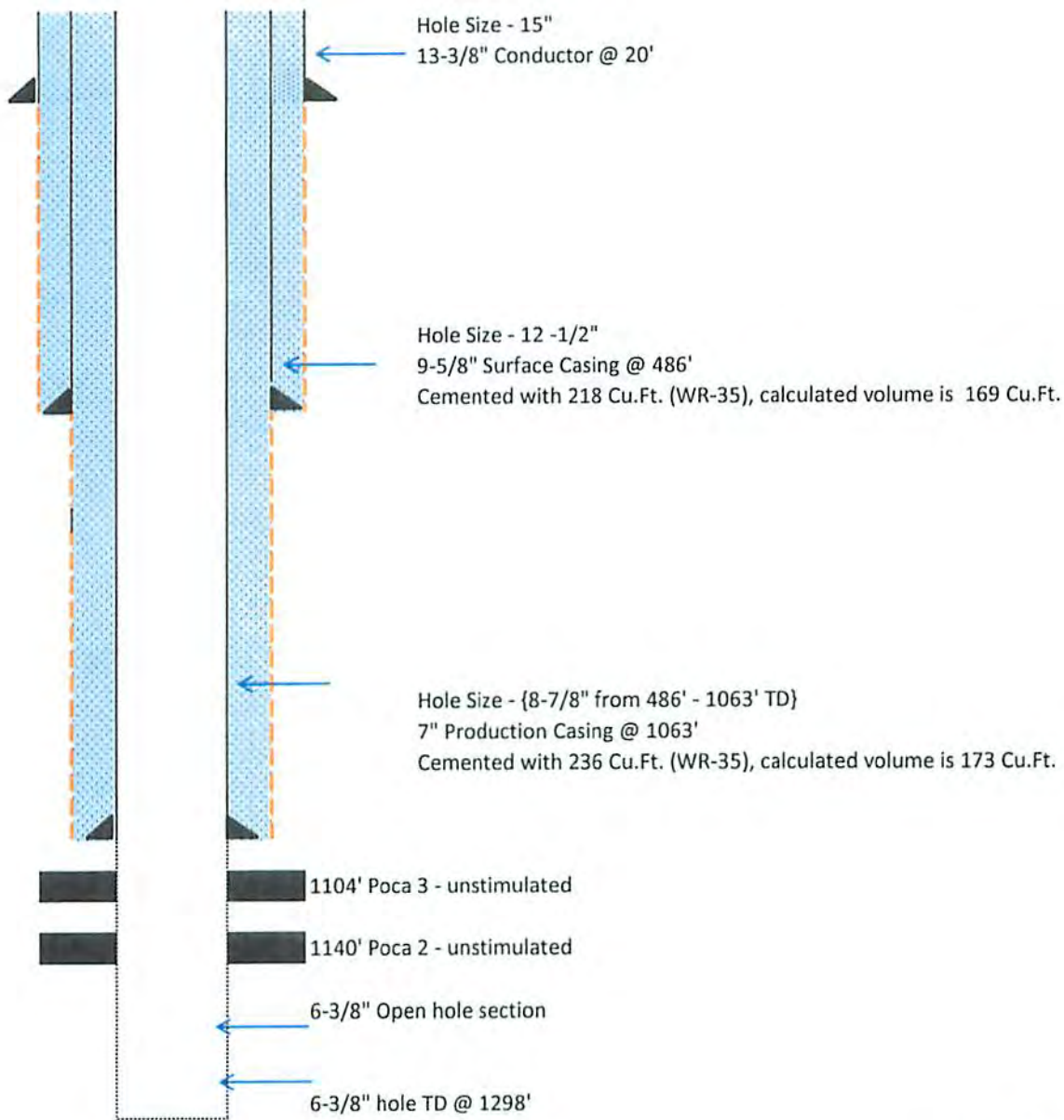
Received
Office of Oil & Gas
SEP 25 2015

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



Received
Office of Oil & Gas
SEP 25 2015

[Handwritten signature]

8/013009

WR-35
Rev (5-01)

DATE: March 11, 2005

API #: 47-08104506

Office of Oil & Gas

MAR 18 2005

WV Department of
Environmental Protection

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

Well Operator's Report of Well Work

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

LOCATION: Elevation: 2061.1' Quadrangle: Arrest

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

10/23/2015

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	1105	
Shale	1105	1134	
Coal	1134	1140	
Sand and Shale	1141	1250	
Redrock	1250		
TD	1298		

Received
 Office of Oil & Gas
 09/25/04

WJK



MM-6

Received
Office of Safety
SEP 23 2015

10/23/2015

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 86</u>	Address _____
<u>Glen Daniel, WV 25844</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration <u>Maple Meadow Mining Company</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>Maple Meadow Mining Company</u>
Address <u>Box 268</u>	Name <u>Maple Meadow Mining Company</u>
<u>Nimitz WV, 25878</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.

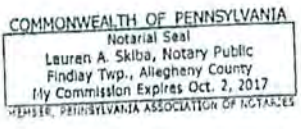
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 Mountaineer Production, LLC
 By: John W. Crock
 Its: VP, Environmental Health & Safety
 Address Atlas Resource Partners, LP Park Plaza Corporate Center One
1000 Commerce Drive 4th Floor Pittsburgh, PA 15276
 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.



Received
 Office of Oil & Gas
 SEP 25 2015

8101300 P

WW-9
(2/15)

API Number 47 - 51 - 01300
Operator's Well No. MM-5

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name ARP Mountainer Production, LLC OP Code _____

Watershed (HUC 10) Marsh Fork Quadrangle Arnett

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

*No pit will be used
APW*

If so, please describe anticipated pit waste: Water and Cement to be collected into a skidded 80 bbl open top tank

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes: APW *APW* stake *All pits must be lined with a minimum of 20 mil thickness synthetic liner.*

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _____

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

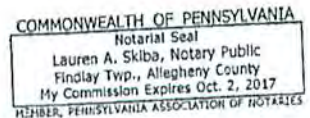
Company Official (Typed Name) John W. Crick

Company Official Title VP, EHS

Subscribed and sworn before me this 21 day of September, 20 15

Lauren A. Skiba Notary Public

My commission expires October 2, 2017



Received
Office of Oil & Gas
SEP 25 2015

10/23/2015

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: [Signature]

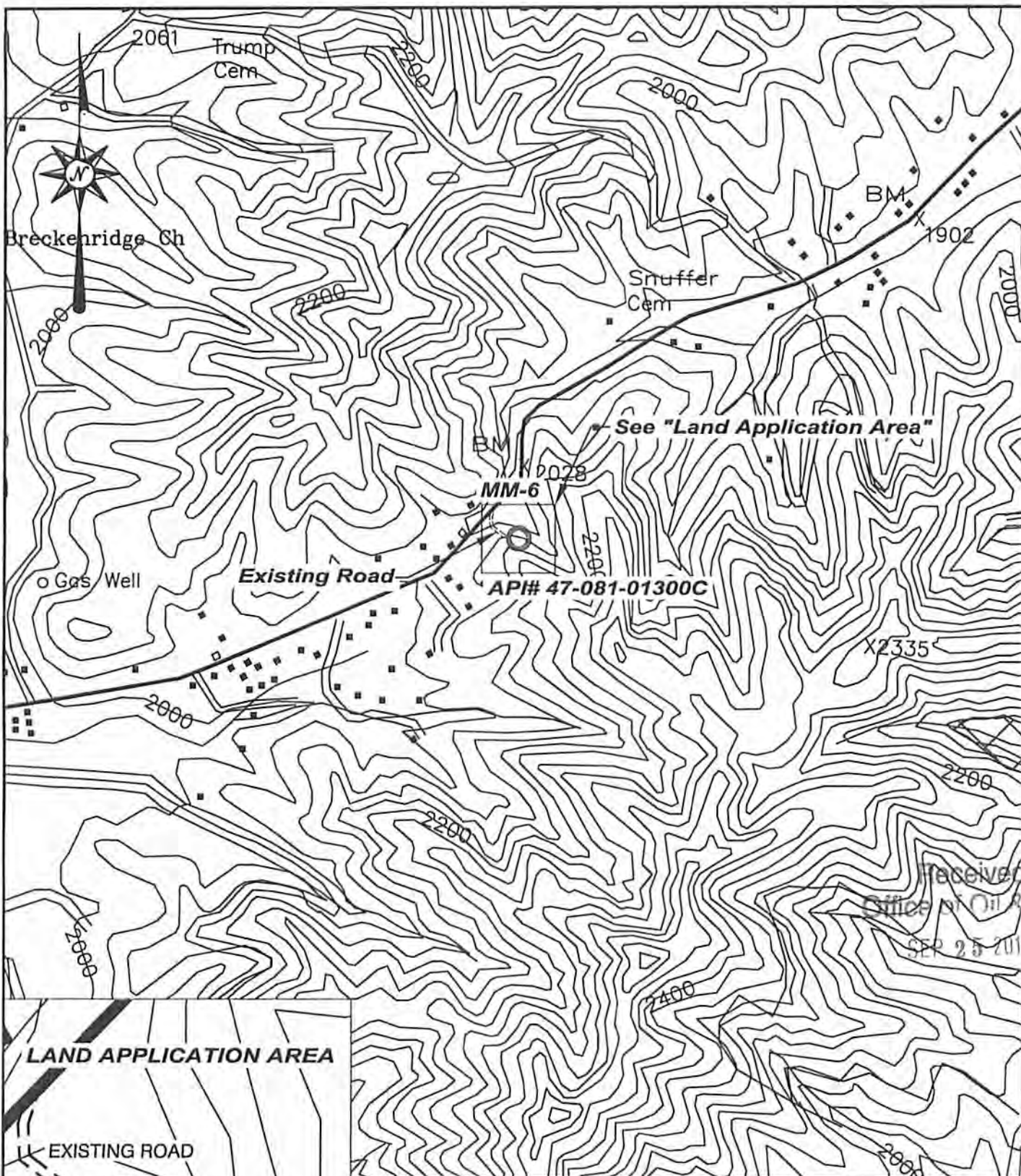
Comments: _____

Title: Inspector

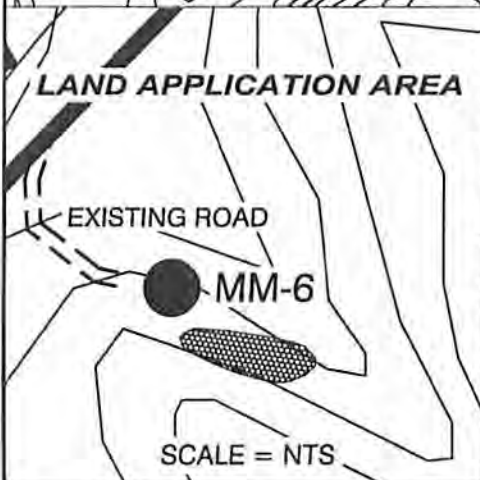
Date: 9/24/15

Field Reviewed? () Yes () No

Received
Office of Oil & Gas
SEP 25 2015



Received
Office of Oil & Gas
SEP 25 2015



ARP Mountaineer Production, LLC 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	 TEE Engineering Company, Inc. 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'	

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

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

BM 2028

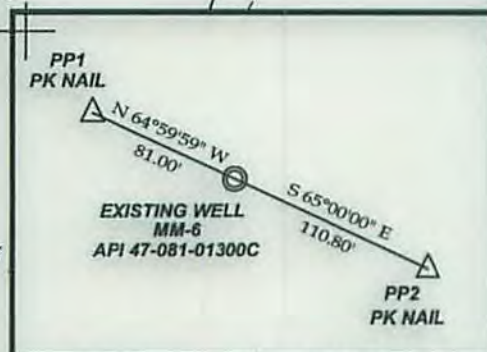
7.5' LOC.

Gas Well

4,851' LATITUDE 37° 47' 30"

LONGITUDE 81° 22' 30"

9,499'



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

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE SEPTEMBER 9, 2015

OPERATOR'S WELL NO. MM-6

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 37.088

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

10/23/2015