

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: 47-8101301, 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 penalities 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.

Operator's Well No: MM-7

Farm Name: YORK, RUTH

API Well Number: 47-8101301

Permit Type: Plugging
Date Issued: 10/19/2015

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.

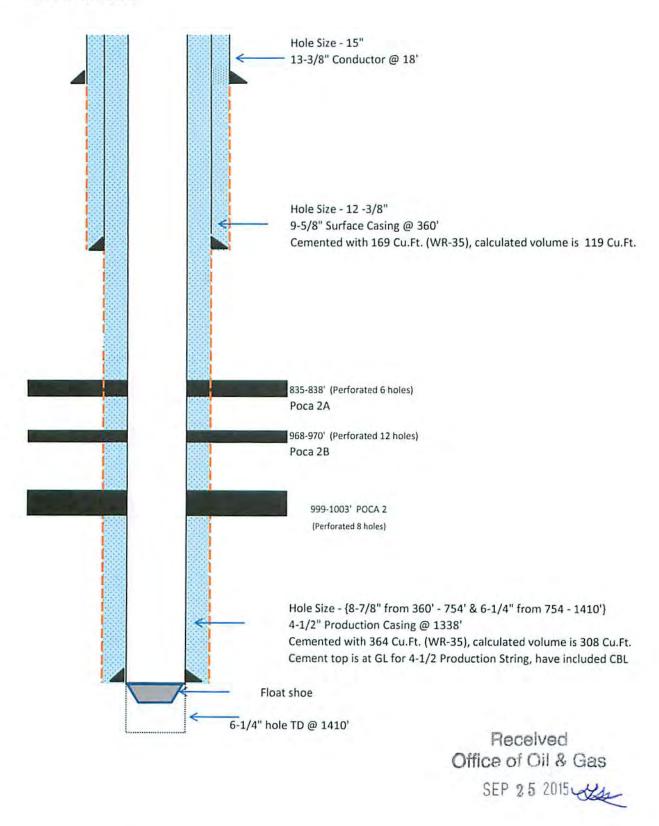
WW-4B Rev. 2/01

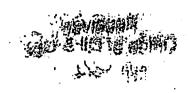
1) Date September	16th ,	20 15
2) Operator's		
Well No. MM-7		
3) API Well No.	47 - 81	- 01301

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

		quid injection/ Waste disposal/ Underground storage) Deep/ Shallow
	(11 das, Floddetton of	onderground storage
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 1	Charleston, West Virginia 25313
8)	Oil and Gas Inspector to be notified Name Gary Kennedy	9) Plugging Contractor Name Universal Well Services
	Address Box 268	Address 14 Sewer Plant Road
	Nimitz WV, 25978	Buckhannon, WV 26201
1	Move in rig up workover rig, Lower tubing and tag b If fill is encountered, clean to as deep as reasonably RIH with 2-3/8" tubing set off of bottom + or - two feet. Spot ba	y achievable below lowermost coal. lanced plug using 30% excess in cement, totaling 50cu.ft of expanding cement.
F	Move in rig up workover rig, Lower tubing and tag but fill is encountered, clean to as deep as reasonably RIH with 2-3/8" tubing set off of bottom + or - two feet. Spot bat Cement Blend (50/50 PozMix with 10% salt, 2% TOOH w/tubing to be above cement plug, WOC	y achievable below lowermost coal. lanced plug using 30% excess in cement, totaling 50cu.ft of expanding cement. b bentonite,) for 4hrs minimum ment to the surface, using 20% excess totaling 105cu.ft of expanding cement
F G G G G G G G G G G G G G G G G G G G	Move in rig up workover rig, Lower tubing and tag by all fill is encountered, clean to as deep as reasonably RIH with 2-3/8" tubing set off of bottom + or - two feet. Spot bath Cement Blend (50/50 PozMix with 10% salt, 2% TOOH w/tubing to be above cement plug, WOC RIH w/tubing, tag cement at or near 938', finish circulating central permanent marker and reclaim location to WVDI and between plugs.	y achievable below lowermost coal. lanced plug using 30% excess in cement, totaling 50cu.ft of expanding cement. bentonite,) for 4hrs minimum ment to the surface, using 20% excess totaling 105cu.ft of expanding cement EP specifications coil and gas inspector 24 hours before permitted
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MM-7 Plug and Abandon Schematic API # 47-081-01301





DATE:

API#: 47-081-01301C-F

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

Well Operator	or's Report of W	ell Work	350	
Farm name: Ruth York	Ope	rator Well No	.: <u>MM7</u>	
LOCATION: Elevation: 1941.01	Qua	drangle:	Arnett	
District: Trap Hill	Cour	ty: Raleigh		
Latitude: 0 Feet South of 3'		Min. 1	1.52 Sec.	
Longitude 0 Feet West of 8	1 Deg. 23	Min. 1	1.23 Sec.	
Company: AMVEST Gas Resources, Inc.				
Company: ANTVEST Gas Resources, Inc.	Casing &	Used in	Left in well	Cement fill
	Tubing	drilling		up Cu. Ft.
Address: One Boar's Head Pointe	13 3/8"	18'	18'	N/A
Charlottesville, Virginia 22905	9 5/8"	395'	395'	168.74
Agent: Chris Butler	4 1/2"	1290'	1290'	364
Inspector: Richard Campbell				
Date Permit Issued: February 6, 2003				
Date Well Work Commenced: 02/21/03				
Date Well Work Completed: 02/28/03				
Verbal Plugging:				
Date Permission granted on:				
Rotary x Cable Rig				
Total Depth (feet): 1410				
Fresh Water Depth (ft.): 180', 285'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 456-458, 708-712, 739-743				
836-839, 968-969, 1000-1004, 1073-1074				
OPEN FLOW DATA		•	•	· ·
	Pay zo			
Gas: Initial open flow N/A MCF/d O				
Final open flow N/A MCF/d				2.1.7.1.7
Time of open flow between initial and			Hours	Received
Static rock Pressure 330 psig (surfa	ace pressure) a	fter 24 H	Iours	Office of Oil & G
				Office of Off & G
Second producing formation Pocahor	itas #6 Pay zo	ne depth (ft)	836-839	SEP 25 2015
Gas: Initial open flow N/A MCF/d Oi			_Bbl/d	00 000
	Final open flor		Bbl/d	
Time of open flow between initial and	final tests	Но	ours	
Static rock Pressure psig (surfa	ace pressure) a	fter H	Iours	
NOTE: ON BACK OF THIS FORM PUT THE				
INTERVALS, FRACTURING OR STIMULAT	ING, PHYSICA	L CHANGE,	ETC. 2). THE W	ELL
INTERVALS, FRACTURING OR STIMULAT LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE	GEOLOGICA	L RECORD	OF ALL FORMA	VIONSPECEDIES
INCLUDING COAL ENCOUNTERED BY THE	WELLBORE.			Office of Oil & Gas Office of Chief
Signed: The 7 A	VP-5	+ ploration	/	of Chief
By: John F. Sincles	_	- FINAROL	//	FEB 0 9 2006
Date: 1/18/66			//	2006
1/18/00			le.	140
				nvironmental protes

Well:

MM-7

Permit No:

47-081-01301C

District: County: Trap Hill Raleigh

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

Date: 02/28/2003

MIRU Key Energy Surveys to conduct GR/CCL/CBL and perforate Poca 2-A and Poca 2-B intervals. Logger's TD 1338'. POOH and LD logging tools. Install 4 1/2' frac vlave. Key Energy RIH with 3 1/8" HSC perforating gun to perforate Poca 2-B interval 998.9' - 100.3' (13 holes) and Poca 2-A interval 1002.4' - 1004.2 (10 holes) in FE Acid. POOH with perforating gun, all shots fired. RD Key. HES conducted Stepdown test with Shut In Capture - monitored pressure for approx. 4.0 hrs. RDMO HES and Key Energy Surveys. Shut well in and secure.



Date: 05/12/2005

Pocahantas #2 Perforate w/3-1/8" HSC w/16gm chrgs P-2 w/ [8 shots:(999.50-1003.75), 6 shots:(968.75-970.00)] & P-6 w/ [12 shots: (835.50-838.75)], rn pkr on 2-3/8 tbng set @ 925.64, Stimulate w/N2 foam:

P-2 through tubing, Pbk (sf) @ 2125psi, Pressured out when proppant (16/30) reached formation - no proppant placed, Pump 65 Bbls (24 sand laden) @ 16BPM & 2462 psi, ISIP=2249 psi. Remvd pkr

P-6 through casing, Pbk (sf) @ 1890 psi, Pmpd 114 Bbls @ 20.3 BPM & 2761psi, plcd 58 sxs 16/30 prpnt, ISIP=2853 psi.

Formation	Тор	Bottom	Remarks
Clay	0	7	
Sand and Shale	7	252	water @ 180'
Sand	252	350	water @ 285'
Shale	350	456	
Coal	456	458	
Sand	458	708	
Coal	708	712	
Shale	712	739	
Coal	739	743	
Sand	743	836	
Coal	ძ36	839	
Sand and Shale	839	968	
Coal	968	969	
Shale	969	1000	
Coal	1000	1004	
Sand and Shale	1004	1073	
Coal	1073	1074	
Shale	1074	1120	
Redrock	1120	1244	
Shale	1244	1320	
Sand	1320	1410	
TD	1410		

Received Office of Oil & Gas SEP 25 2015

the



01301

WW-4A

1) Date: Septamber 18th 2015

2) Operator's Well Number

MM-7

3) API Well No.: 47 - 81

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 Walace York Name No cost operator Address P.O. Box 224 Address Pairdale, WV 25839 (b) Name (b) Coal Owner(s) with Declaration Address Maple Meadow Mining Compan Name Address 999 Corporate Blvd Linthicum Helghts, MD 21091 (c) Name Name Address Address 6) Inspector Gary Kennedy (c) Coal Lessee with Declaration Address Box 268 Name Nimitz WV, 25978 Address Telephone (304)-382-8402 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 reverses 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 Od 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. Crook Its: VP, Environmental Health & Safety Address Atlas Resource Partners, LP Park Place Corporate Center One

Subscribed and sworn before me this 21 day of SUMMEY 2015

My Commission Expires (WWW) 1. 700

Telephone

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 departments of the privacy officer at departments of the personal information.

412-200-7675

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Lauren A, Skiba, Notary Public

Findiay Twp., Allegheny County

My Commission Expires Oct. 2, 2017

HERBER, PENNSYLVANIA ASSOCIATION OF NOTABLES

1000 Commerce Drive 4th Floor Pittsburgh, PA 15275

Received Office of Oil & Gas SEP 2.5 2015 WW-9 (2/15)

API Number 47 - 81 - 01301 Operator's Well No. MM-7

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name ARP Mountaineer 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 V No pit will be or
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: Ph
Proposed Disposal Method For Treated Pit Wastes: 11/10 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 till
Company Official (Typed Name) John W CRock
Company Official Title UP ENS
Subscribed and sworn before me this 21 day of Suprembly, 20 15 Notary Public
My commission expires Officer 2, 2011

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Lauren A. Skiba, Notary Public
Findiay Twp., Allegheny County
My Commission Expires Oct. 2, 2017
HEMEER, PENNSYLVANIA ASSOCIATION OF NOTASIES

Received Office of Oil & Gas SEP 2.5 2015

Field Reviewed?

Operator's Well No. MM-7 Prevegetation pH 5-6.5
re
ixtures
Permanent
Seed Type lbs/acre
Date: 9/24/15 Received

SEP 25 2015



