

west virginia department of environmental protection

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

Jim Justice . Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Monday, October 16, 2017 WELL WORK PERMIT Coal Bed Methane Well / Plugging

ARP MOUNTAINEER PRODUCTION, LLC 425 HOUSTON, STE 300

FORT WORTH, TX 76102

Re: Permit approval for WW-1 47-081-01146-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: WW-1

Farm Name: W. POCAHONTAS LAND CORP. U.S. WELL NUMBER: 47-081-01146-00-00

Coal Bed Methane Well / Plugging

Date Issued: 10/16/2017

Promoting a healthy environment.

I

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
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

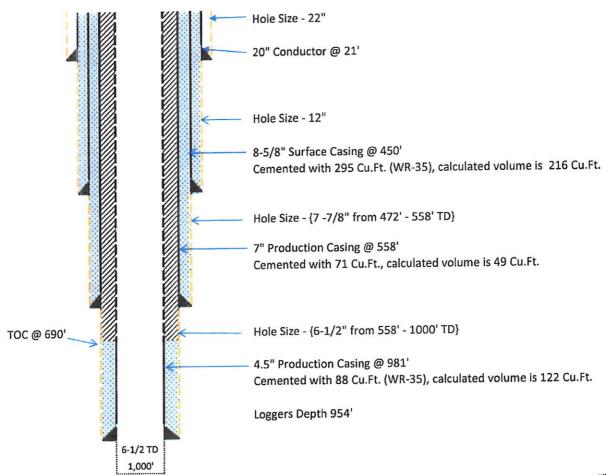
1) Date July 26	, 20	<u> 17</u>
2)Operator's Well No.ww-1		
3) API Well No.	47-81 -	01146

STATE OF WEST VIRGINIA

RECEIVED Office of Oil and Gas

DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS APPLICATION FOR A PERMIT TO PLUG AND ABANDON A COM WELL. WV Department of ______Énvironmental Protection Well Type: Oil ____/ Gas $\frac{X}{}$ __/ Liquid injection ____/ Waste disposal ___ (If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow____ Watershed Paint Creek Location: Elevation 1,835.92 County Raleigh Quadrangle ECCLES 5) District Town 6) Well Operator ARP MOUNTAINEER PRODUCTION, LLC 7) Designated Agent CT Corporation Systems Address 5400 D Big Tyler Road Address 425 Houston Street, Suite 300 Charleston, WV 25313 Fort Worth, TX 76102 9) Plugging Contractor Oil and Gas Inspector to be notified Name To be determined Name Gary Kennedy Address 252 Circle Avenue Address Rainelle WV 25962 Check Rock Pressure 10) Work Order: The work order for the manner of plugging this well is as follows: Move in work-over rig, Lower 2-3/8 tubing and tag bottom, casing depth expected 981' If fill is encountered, clean to as deep as reasonably achievable below lowermost coal. Due to a portion of un-cemented 4-1/2" casing the free pipe will need to be extracted. Break down existing wellhead, add 4-1/2" pup joint. NU service company to perform free-point on casing. Expect free point @ 690'. Confirm free point @ or near 690' NU casing cutting tools, RIH make 4-1/2 casing cut @ 600' Pull 4-1/2 casing, LD pipe. MU 2-3/8 tubing, RIH w/tubing, tag bottom, set off bottom, + or - 2ft NU Cementers pump 500' expandable cement plug using 25% in excess, totaling 57cu.ft TOOH w/tubing to be above cement plug, WOC for 4hrs minimum. RIH w/tubing, tag cement at or near 480'. NU cementers finish circulating cement to the surface w/25% excess, totaling 140 cu.ft Install permanent marker. Reclaim location. PER WU COAE. SET MONUMENT Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

WW-1
Plug and Abandon Schematic
API # 47-081-01146



RECEIVED Office of Oil and Gas

SEP - 7 2017

WV Department of Environmental Protection

John

WR-35 Rev (5-01) DATE: August 10, 2004 API#: 47-81-01146 C

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

Well Operator's Report of Well Work					
Farm name: Western Pocahontas		ator Well No.:_			
LOCATION: Elevation: 1833.50		rangle: E			
District: Town Latitude: 12737 Feet South of 37 Longitude 3994 Feet West of 8	Deg. 52	ty: Rale 2 Min. 30 5 Min. 0	Sec.		
Company: AMVEST Oil & Gas, Inc.	Casing &	Used in	Left in well	Cement fill	
	Tubing	drilling		up Cu. Ft.	-
Address: One Boar's Head Pointe	8.625	450	450	203-DNC	-
Address: One Boar's Head Pointe Charlottesville, VA 22903	7.0	558	558	95	
Agent: Allen Mueller	4.5	981	981	73(TOC 691)	-
Inspector: Rodney Dillon					_
Date Permit Issued: March 24, 2000					_
Date Well Work Commenced: April 14, 2000					
Date Well Work Completed: June 7, 2000					
Verbal Plugging:					_
Date Permission granted on:					-
Rotary X Cable Rig Horn 23				i en	
Total Depth (feet): 1000'			RECEIVE		
Fresh Water Depth (ft.): 125', 550'			ffice of C	# as	_
					100 .
Salt Water Depth (ft.): N.A.			AUG 1 1 2		-
Is coal being mined in area (N/Y)? Yes			Villen		
Coal Denths (ft.): 133-34, 231-39, 487-92,		Envi	JAn X		-n (FD)
576-77, 670-72,721-27,779-84, 789-93	1	1	1	1,	RECEIVED Office of Oil and Gas
OPEN FLOW DATA			5m1 747		SEP - 7 2017
Producing formation Paca 2,3,4,6,9	Coals Pay z	one depth (ft)	3/6-793		
Case Initial open flow Al. A. MCF/d Oil:	Initial open I	low N.A.	301/0		WV Department of Environmental Protection
Final open flow 31 MCF/d F	inal open flow	<i>V U</i> E	501/Q		Environmenta
Time of open flow between initial and	final tests	N.A. Hou	rs		
Static rock Pressure N.A. psig (surfa-	ce pressure) at	ner N.A. Ho	urs		
Second producing formation	Pay zo	ne depth (ft)	DI 1/1		
Gas: Initial open flow MCF/d Oil	Initial open f	low	B01/0		
	inal open flow		3bl/d		
Time of open flow between initial and	final tests	Hou			
Static rock Pressurepsig (surfa	ce pressure) a	nern	ours		
NOTE: ON BACK OF THIS FORM PUT THE	FOLLOWING:	: 1). DETAILS	OF PERFORAT	ED EI	
THE PARTY OF THE P	NIC: DUVNII I	I CHARLER	CIU. ZI. IIIL W		
LOG WHICH IS A SYSTEMATIC DETAILED INCLUDING COAL ENCOUNTERED BY THE	WELLBORE.	L RECORD C	T ALL POIGNA	110110,	
Signed: Joh 7. A.Z.				11	411
By: John F. Sincla: Date: 8/10/04	V VP-Exp	lovation		<i>∞</i>	The state of the s
Date. 11010					

Well: District:

WW-1 Town

Permit No:

47-81-1146C Raleigh County:

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

4/20/00

MIRU Halliburton and Key Energy

Fraced previously perforated Poca 2 (789-793) and Poca 3 (779-784) coals with nitrogen

foam, placing 7,300 lbs. 16/30 sand. Set frac plug at 756'. High TP.

Perforated Poca 4 coal (720-732), and fraced with nitrogen foam, placing 8,800 lbs.

16/30 sand. Set frac plug at 706'. High TP.

Perforated Poca 6 (670-674) and Poca 9 (576-578) coals, and fraced with nitrogen foam, placing 25,500 lbs. 16/30 sand.

Formation	Top	Bottom	Remarks	
Shale	0	45		
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER,	45	60		
and	60	110		
Shale	110 ·	133	Water 100 gpm	
Sand	133 -	134		7
Coal	134	164		
Shale	164	178		
Sand Sand and Shale	178	190		
THE PERSON NAMED IN COLUMN 2 I	190	231		
Sand	231	239		
Coal	239	243		
Shale	243	487		
Sand	487	492		
Coal	492	555	Water 350 gpm	
Sand	555	576		
Shale	576	577		
Coal	577	670		
Sand	670	672		
Coal	672	721		,
Shale	721	727	10-1000 - 10-10-10-10-10-10-10-10-10-10-10-10-10-1	
Coal		779		
Sand and Shale	727	784		
Coal	779	789		
Shale	784	44.500		
Coal	789	793		
Sand and Shale	793	840		
Shale	840	890		
Sand and Shale	890	960		
Sand	960	1000		
TD		1000		
A STATE OF THE PARTY OF THE PAR				

RECEIVED Office of Oil and Gas

SEP - 7 2017

WV Department of invironmental Protection

THE

Well:

WW-I

Permit No:

47-81-1146C

District:

Town

County:

Raleigh

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

11/04/98

Ran 4-1/2" casing w/ frac baffles @ 592, 692, 758, & 787

12/03/98

Perforated coal 779-793 w/ 38 - 2-1/8 charges

Did not frac

Formation	Тор	Bottom	Remarks
Shale	0	45	
Sand	45	60	
Shale	60	110	
Sand	110	133	Water 100 gpm
Coal	133	134	
Shale	134	164	
Sand	164	178	
Sand and Shale	178	190	
Sand	190	231	
Coal	231	239	
Shale	239	243	
Sand	243	487	
Coal	487	492	
Sand	492	555	Water 350 gpm
Shale	555	576	
Coal	576	577	
Sand	577	670	
Coal	670	672	
Shale	672	721	,
Coal	721	727	
Sand and Shale	727	779	
Coal	779	784	
Shale	784	789	
Coal	789	793	
Sand and Shale	793	840	
Shale	840	890	
Sand and Shale	890	960	
Sand	960	1000	
TD		1000	
Annual transmission of the second			
- to the state of			

RECEIVED Office of Oil and Gas

SEP - 7 2017

WV Department of Environmental Protection WW-4A Revised 6-07

Date: 7 - 26 Operator's Well Numbard Mountaineer Production, LLC V	- 2017 per ww-1)		
3) API Well No.: 47 -	81		01148	

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

RECEIVED Office of Oil and Gas

4)	Surface Own (a) Name Address	er(s) to be served: Western Pacahontas Properties 5260 Irwin Road Huntington WV 26707	5) (a) Coal Operator Name Address (b) Coal Ow	ICG Beckley, LLC 2221 Old Eccles Road Eccles, WV 25838 ner(s) with Declaration	SEP - 7 2017 W Department of Environmental Protection
	(b) Name	Pine Valley Coal Company	Name	Wastern Pocahontas Properties	
	Address	1 City Place Drive	Address	5260 Irwin Road	
		Saint Louis Missouri 63141		Huntington WV 26707	
	(c) Name Address		Name Address		
		D Kanandu	(c) Coal Les	see with Declaration	
6)	Inspector	Gary Kennedy	Name	ICG Beckley, LLC	
	Address	262 Circle Avenua	Address	2221 Old Eccles Road	The state of the s
		Rainalle WV 25962		Eccles, WV 25836	
	Telephone	304-382-8402			
				to Late Many and the following doc	uments:

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
- The plat (aurveyor'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 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 Julie Harris By: Director, EHS Its: Atlas | Titan Address 425 Houston Street, Suite 300 | Fort Worth, TX 76102 T. 817.865.8836 | M. 682.216.0246 | jrhams@atlasenergy.com Telephone

Subscribed and sworn before me this 🚤

My Commission Expires

ASHLEY TIDWELL Notary Public, State of Texas Comm. Expires 06-16-2021 Notary ID 129150363

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 The Unice of the and this processes your personal information, such as name, address and paone 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 places contact DEPle Chief Privacy Office at the process of the parties of the privacy of the parties of the parties of the privacy of the parties of information, please contact DEP's Chief Privacy Officer at deportune officer www.gov.

WW-9 (5/16)

API Number 47	. 81	_ 01146
Operator's Well N		

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 494509804
Watershed (HUC 10) 0505000601 Quadrangle Paint Creek
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 V
If so, please describe anticipated pit waste: WATER AND CEMENT TO BE COLLECTED IN OPEN TOP TANK THEN TESTED AND LAND APPLIED Will a number to be used in the pit? You
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP)
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 April 1, 2016, 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
Environment
Company Official Title Director, EHS
Subscribed and swom before me this 20 day of 114 , 20 17 Notary Public ASHLEY TIDWELL Notary Public, State of Texas Comm. Expires 06-16-2021

Notary ID 129150363

			Operator's We	l No	
roposed Revegetation Treatment:	Acres Disturbed 0.5		Preveg etation 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			
Tempora	ary		Perman	ent	
Seed Type all Fescue or Orchard Grass	lbs/acre		Seed Type	lbs/acre	
Annual Rye Grass	5			*	
Attach:		U. v	are air corred plans includ	ing this info have been	
Maps(s) of road, location, pit and rovided). If water from the pit with L, W), and area in acres, of the la	ill be land applied, pro and application area.	vide water volume,	menue umensions (2)	, , , , , , , , , , , , , , , , , , ,	
Maps(s) of road, location, pit and provided). If water from the pit with L, W), and area in acres, of the lather than the provided section of involved 7	ill be land applied, pro and application area.	vide water volume,	menue umensions (2),	, , , , , , , , , , , , , , , , , , ,	
Iaps(s) of road, location, pit and rovided). If water from the pit with water from the pit with	ill be land applied, pround application area.	vide water volume,	menue umensions (2),		N/2F)
Iaps(s) of road, location, pit and rovided). If water from the pit with water from the pit with	ill be land applied, pround application area.	vide water volume,	menue umensions (2),	RECE Cifice of C	IVED I and Gas
Maps(s) of road, location, pit and rovided). If water from the pit with the pit wit	ill be land applied, pround application area.	vide water volume,	menue umensions (2),	RECE Crine of 5	ived Cand Gas 7 2017
Maps(s) of road, location, pit and rovided). If water from the pit with the pit wit	ill be land applied, pround application area.	vide water volume,	menue umensions (2),	RECE Cifice of C	IVED Cand Gas 7 2017
Maps(s) of road, location, pit and rovided). If water from the pit with L, W), and area in acres, of the last chotocopied section of involved 7 Plan Approved by:	ill be land applied, pround application area.	vide water volume,	menue umensions (2),	RECE Crine of 5	ived Cand Gas 7 2017
Maps(s) of road, location, pit and provided). If water from the pit with L, W), and area in acres, of the last Photocopied section of involved 7	ill be land applied, pround application area.	vide water volume,	menue umensions (2),	RECE Crine of 5	ived Cand Gas 7 2017
Attach: Maps(s) of road, location, pit and provided). If water from the pit with L, W), and area in acres, of the last Photocopied section of involved 7 Plan Approved by: Comments: Title: Tuspudos	ill be land applied, pround application area. 7.5' topographic sheet.	vide water volume,		RECE Crine of 5	ived Cand Gas 7 2017

WW-9- GPP Rev. 5/16

	Page	1	of	2
API Number 47	- 81		01146	
Operator's Well N		W-1		

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

GROUNDWATER PROTECTION PLAN	
Operator Name: ARP MOUNTAINEER PRODUCTION, LLC	
Watershed (HUC 10): 0505000601 Paint Creek Quad: Paint Creek	
Farm Name: Western Pochowtas Land Corp.	
 List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could of groundwater. 	
Waste water that is collected into the portable tank will be treated and ground disburs a 2" portable gasoline powered trash pump.	
2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant	sources above.
While in operation, the portable 2" gasoline powered trash pump will be placed inside containment eliminating chances for potential spillage of gasoline onto the surface.	>
 List the closest water body, distance to closest water body, and distance from closest Well Head Protect discharge area. 	ion Area to the
Closest Water Body - Paint Creek	
Distance to Closest Water Body 300' +/-	
Distance from Closest WHPA to Discharge Area - N/A	Office of Oil and Gas
	SEP - 7 2017
4. Summarize all activities at your facility that are already regulated for groundwater protection.	WV Department of Environmental Protection
Not applicable.	cuvilonmental riolec

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

10/20/2017

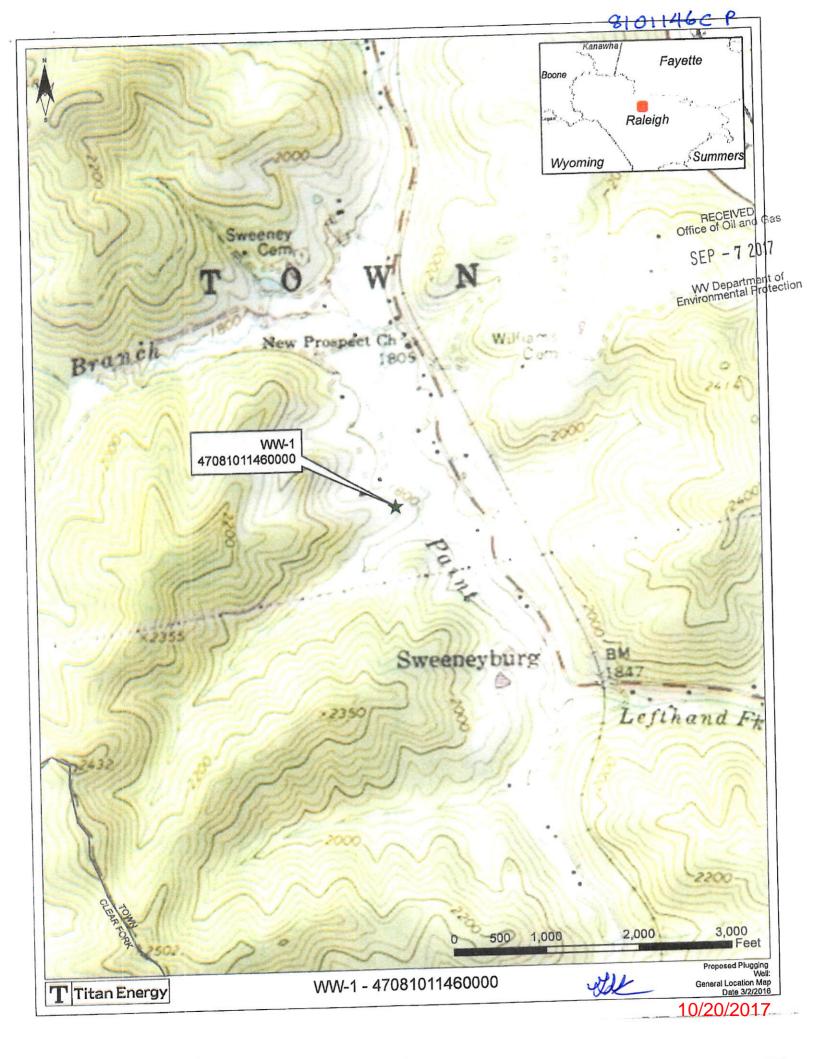
WW-9- GPP Rev. 5/16	Page 2 of Z API Number 47 - 81 - 01144 Operator's Well No. WW-1	
Not Applicable		
6. Provide a statement that no waste material will be No wastes will be used for deicing, ice	control, structural fills, road base or other uses.	
provide direction on how to prevent groundwater		
All employees will be trained on their rejob procedures provide direction on how work practices.	sponsibility to ensure groundwater protection. Current value to prevent ground water contamination through proper	
Provide provisions and frequency for inspection	s of all GPP elements and equipment.	
During the plugging and abandonment elements and equipment of the sites gr functioning, and appropriately manage	SHP	
	Wy Department of Environmental Protect	tion

Signature: Rocky Stilled

Date: 7-26-2017

able

Land Application Drawing Existing Road esthured lik **NOT TO SCALE** Titan Energy WW-1 API 47-081-1146C WELL NO. SITE PLAN MAP EXISTING ROAD RECEIVED Office of Oil and Gas **DATE: 7/26/17** SCALE: 1" = 1000' 007 1 **2** 2017 WV Department of Environmental Protection





WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

WELL LOCATION FORM: GPS		
API: 47-81-01146	WELL NO.: WW-1 POCAHONTAS LAND CO	
FARM NAME: WESTERN	POCAHONTAS LAND CO	RP.
RESPONSIBLE PARTY NAME: ARP MOUNTAINEER PRODUCTION, LLC		
COUNTY: Raleigh	DISTRICT: Town	
Eccles		
SURFACE OWNER: Wester	n Pocahontas Properties	
SURFACE OWNER: Western Pocahontas Properties ROYALTY OWNER: Western Pocahontas Properties		
UTM CPS NORTHING: 4188	100.93	
UTM GPS NORTHING: 4188100.93 UTM GPS EASTING: 476808.96 GPS ELEVATION: 1835.92'		
preparing a new well location plat if above well. The Office of Oil and Othe following requirements: 1. Datum: NAD 1983, Zon height above mean sea I 2. Accuracy to Datum – 3. 3. Data Collection Method Survey grade GPS X : Post F	05 meters : Processed Differential	t meet
	Time Differential X st Processed Differential	
Real-Time Differential		
4. Letter size copy of the topography map showing the well location. I the undersigned, hereby certify this data 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 Office of Oil and Gas. Colly Allel EHS Specialist, Sr. 7-26-2017 Signature Title Date		