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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

April 01, 2014

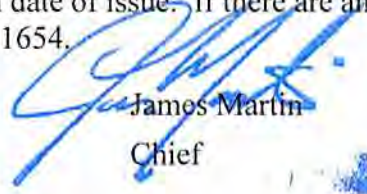
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-7700207, issued to CHESAPEAKE APPALACHIA, L.L.C., 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: 912081  
Farm Name: MURRAY, DONALD & KATHY  
**API Well Number: 47-7700207**  
**Permit Type: Plugging**  
Date Issued: 04/01/2014

# 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.

WW-4B  
Rev. 2/01

1) Date April 16, 2013  
2) Operator's  
Well No. 912081  
3) API Well No. 47-077 - 00207

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 X
- 5) Location: Elevation 1729' Watershed Deckers Creek  
District Valley County Preston Quadrangle Masontown
- 6) Well Operator Chesapeake Appalachia, LLC 7) Designated Agent Eric B. Gillespie  
Address P.O. Box 1300 Address P.O. Box 6070  
Jane Lew, WV 26378 Charleston, WV 25301
- 8) Oil and Gas Inspector to be notified Name Sam Ward  
Address PO Box 2327  
Buckhannon, WV 26201
- 9) Plugging Contractor Name R & J Well Service  
Address P.O. Box 37  
Hueysville, KY 41640

10) Work Order: The work order for the manner of plugging this well is as follows:

MIRU construction equipment to BR&L and Earth Pit (remove any tanks, separators, well lines, meter runs, exc.). MIRU service rig (Blow Down Well). TOOH w 2 3/8" tbg to surface.

TIH check to see if frac plug is present at 3919', if so drill out. TIH w/ 2 3/8" tbg to 4020' +/- . Circulate hole w/ 64 bbl of 6% gel. Pump 22 sks of Class A cement flush w/ 14.5 bbl 6% gel (282' Plug 3743'-4025'). TOOH w/ 2 3/8" tbg to 3743', reverse circulate until clean, pump bottoms up with 6% gel. TOOH w/ 2 3/8" tubing, let plug set. MIRU wireline unit, tag plug.

Shoot off 4 1/2" csg off @ 2700' +/- and retrieve csg. RDMO wireline unit. TIH w/ 2 3/8" tbg to 2700' +/- . Pump 18 sks of Class A cement flush w/ 10.5 bbl 6% gel (100' Plug 2650'-2750').

TOOH w/ 2 3/8" to 2650' , reverse circulate until clean, pump bottoms up with 6% gel. TOOH w/ 2 3/8" to 2550', let plug set. TIH w/ 2 3/8" and tag plug, TOOH to 1786' +/- .

Pump 84 sks of Class A cement flush w/ 5.8 bbl 6% gel (277' Plug 1508' - 1786'). TOOH w/ 2 3/8" tbg to 1509', reverse circulate until clean, pump bottoms up with 6% gel. TOOH w/ 2 3/8" tbg to 1409', let plug set. TIH w/ 2 3/8" and tag plug, TOOH to 185' +/- . Pump 70 sks of Class A cement, or CTS (185' Plug). TOOH w/ 2 3/8" tbg to surface.

Erect 36" Monument. RDMO, Reclaim Location.

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

Work order approved by inspector S. D. Warratt Date 4/18/2013

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Office of Oil & Gas  
APR 18 2013

04/04/2014



Thursday 12/20/2012

**Well ID 912081 Proposed Plugging Procedure**

- 1 **Safety is the highest priority.** Hold well site safety meetings prior to each significant operation. Review critical parameters as well as emergency action plans.
- 2 MIRU construction equipment to BR&L and Earth Pit (remove any tanks, separators, well lines, meter runs, exc.)
- 3 MIRU service rig (Blow Down Well)
- 4 TOOH w 2 3/8" tbg to surface
- 5 TIH check to see if frac plug is present at 3919', if so drill out
- 6 TIH w/ 2 3/8" tbg to 4020' +/-
- 7 Circulate hole w/ 64 bbl of 6% gel
- 8 Pump 22 sks of Class A cement flush w/ 14.5 bbl 6% gel (282' Plug 3743'-4025')
- 9 TOOH w/ 2 3/8" tbg to 3743', reverse circulate until clean, pump bottoms up with 6% gel
- 10 TOOH w/ 2 3/8" tubing, let plug set
- 11 MIRU wireline unit, tag plug
- 12 Shoot off 4 1/2" csg off @ 2700' +/- and retrieve csg, RDMO wireline unit
- 13 TIH w/ 2 3/8" tbg to 2700' +/-
- 14 Pump 18 sks of Class A cement flush w/ 10.5 bbl 6% gel (100' Plug 2650'-2750')
- 15 TOOH w/ 2 3/8" to 2650', reverse circulate until clean, pump bottoms up with 6% gel
- 16 TOOH w/ 2 3/8" to 2550', let plug set
- 17 TIH w/ 2 3/8" and tag plug, TOOH to 1786' +/-
- 18 Pump 84 sks of Class A cement flush w/ 5.8 bbl 6% gel (277' Plug 1509' - 1786')
- 19 TOOH w/ 2 3/8" tbg to 1509', reverse circulate until clean, pump bottoms up with 6% gel
- 20 TOOH w/ 2 3/8" tbg to 1409', let plug set
- 21 TIH w/ 2 3/8" and tag plug, TOOH to 185' +/-
- 22 Pump 70 sks of Class A cement, or CTS (185' Plug)
- 23 TOOH w/ 2 3/8" tbg to surface
- 24 Erect 36" Monument
- 25 RDMO, Reclaim Location

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Office of Oil & Gas

04/04/2014

**Well Data**

<b>Location (Surface)</b>	Lat. 39.5222 Long. -79.8165
<b>TD</b>	8024'

**Casing and Tubular Data**

String	Size	Weight/Grade	Depth	TOC
Surface	9 5/8"	29.3#	1559	
Production	4 1/2"	10.5#	8024	2867

**Capacities**

Size	Weight	(Gal/ft)	(Bbl/ft)	(Cu ft/ft)
9 5/8"	29.3#	3.351	0.0797	0.4479
7 7/8" Open Hole	N/A	2.529	0.0601	0.338
4 1/2"	10.5#	0.669	0.0159	0.0895
2 3/8"	4.7#	0.162	0.00387	0.0217

**Driving Directions to Murray 1 (912081)****From Jane Lew:**

1. Follow I-79 North until the I-68 Split near Morgantown
2. Take I-68 East towards Cumberland
3. Take Exit 4 on I-68 for Sabraton, turn left onto Rte 7 (Earl Core Rd)
4. Follow Rte 7 through Masontown until Reedsville (12.7 miles)
5. In Reedsville, turn right onto Co Rte 27 (Kingwood Pike Rd) and follow for 1.4 miles
6. Turn right onto Zinn Chapel Rd and follow for 0.1 mile, lease road will be on the right

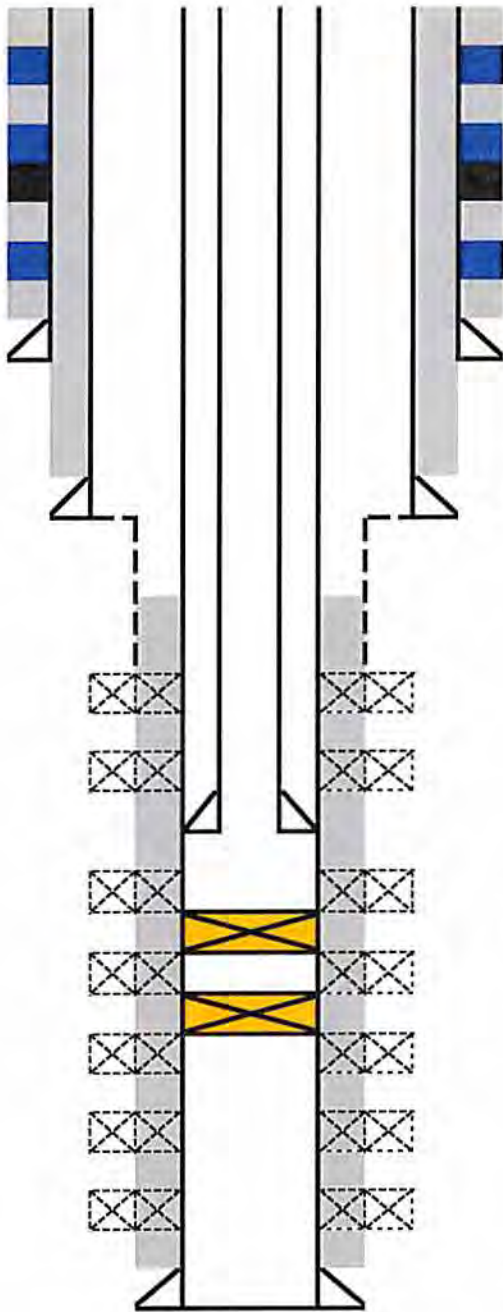
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APR 2014






04/04/2014

# Well ID 912081

Thursday 12/20/2012



H2O @	68	
H2O @	108	
Coal	108	112
H2O @	135	
13 3/8" 32# csg set @	205	
9 5/8" 25# csg set @	1559	
TOC	2867	
16 holes	3793	3804
20 holes	3855	3867
2 3/8" tbg @	3862.5	
8 holes	3929	3929
CIBP	4025	4026
35 holes	7562	7650
CIBP	7660	7661
14 holes	7706	7720
10 holes	7750	7760
4 holes	7780	7784
4 1/2" 10.5#csg set @	8024	
TD 7 7/8" hole @	8024	

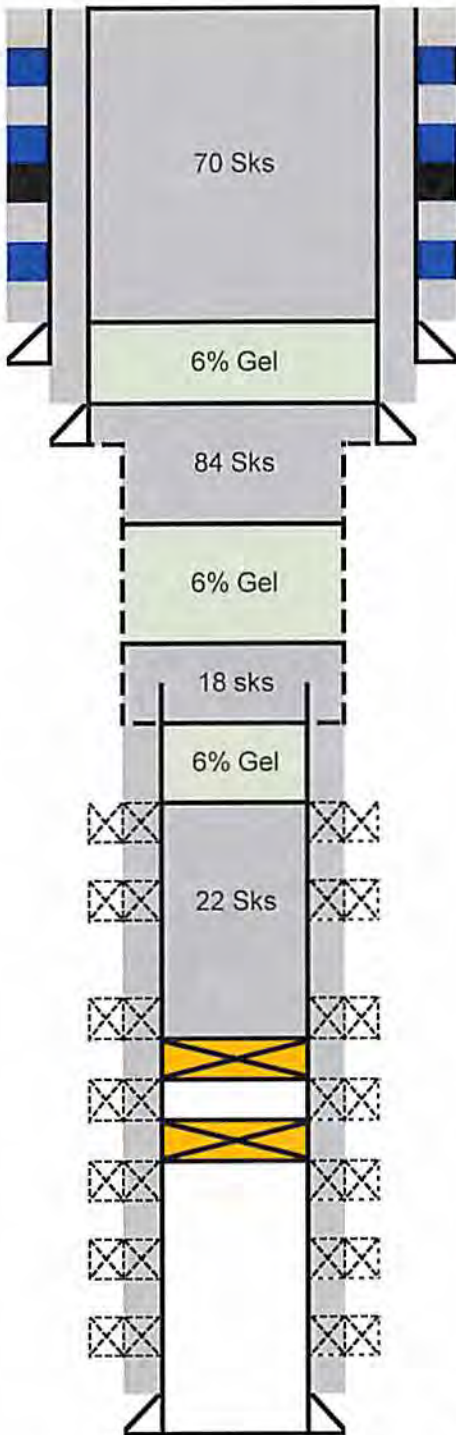
-  Cement
-  Perforated Zone
-  Cast Iron Bridge Plug
-  Coal
-  H2O

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Office of Oil & Gas

04/04/2014

# Well ID 912081

Thursday 12/20/2012



Plug @ Surface	0	185	70 sks
H2O @	68		
H2O @	108		
Coal	108	112	
H2O @	135		
13 3/8" 32# csg set @	205		
9 5/8" 25# csg set @	1559		
Elv & 9 5/8" Plug	1509	1786	84 sks
6% Gel			
84 Sks			
6% Gel			
18 sks			
4 1/2" Plug	2650	2750	18 sks
TOC	2867		
16 holes	3793	3804	
20 holes	3855	3867	
Perf Plug	3743	4025	22 sks
8 holes	3929	3929	
CIBP	4025	4026	
35 holes	7562	7650	
CIBP	7660	7661	
14 holes	7706	7720	
10 holes	7750	7760	
4 holes	7780	7784	
4 1/2" 10.5#csg set @	8024		
TD 7 7/8" hole @	8024		

	Cement		Coal
	Perforated Zone		H2O
	Cast Iron Bridge Plug		

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04/04/2014

Date 07/2/2009  
API # 47-077-00207

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm Name: Murray  
LOCATION:

Operator Well No.: 912081

Preston County - Valley District  
- Masontown 7.5 Quad  
Lat. 39.32.30 S 7175  
Long 79.47.30W 7200  
Elevation 1729'  
Watershed: Deckers Creek

Company: Chesapeake Energy  
P.O. Box 6070  
Charleston, WV 25362-000

Agent: Michael John  
Inspector: Bill Hatfield  
Date Permit Issued: 10/2/06  
Date Well work commenced: 3/27/07  
Date Well Work completed: 3/27/07  
Verbal Plugging Permission  
Granted on / /  
Rotary  Cable  Rig  
Total Depth (ft): DTD: 8,024' (PBSD): 4,025'  
Fresh Water Depth (ft): NA  
Salt Water Depth (ft.): NA  
Is coal being mined in area (Yes  No   
Coal Depths (ft):

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
13 3/8"	GL 33 ft	GL 212 ft	CTS
9 5/8"	GL 1,579 ft	GL 1,579 ft	CTS
4 1/2"	GL 7,950	GL 7,950	400 sks

\*03/22/07 sq. cement w/300 sxs LTOC @ 2916'

Open Flow Data

1 <sup>st</sup> Producing Formation			Riley	Benson
Gas:	Initial Open Flow	Mcf/day	Pay Zone Depth	3,793 ft to 3,804 ft, 3,855 ft to 3,867 ft
	Final Open Flow	80 Mcf/day	Oil:	Initial Open Flow
	Time of Open Flow between Initial and Final Tests	4		Final Open Flow
	Static Rock Pressure	psig after		hours
	Static Rock Pressure	N/A psig 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: \_\_\_\_\_  
CHESAPEAKE APPALACHIA, LLC  
By: \_\_\_\_\_  
Date: \_\_\_\_\_

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Office of Oil & Gas  
JUL 6 2 2009  
WV Department of  
Enviro. Natural Protection



Chesapeake Energy  
Well No.: 912081

**Perforated Intervals**

1 <sup>st</sup> Stage	Benson	16	holes from	3,859 ft to 3,867 ft
	Benson	4	holes from	3,855 ft to 3,857 ft
	Riley	12	holes from	3,798 ft to 3,804 ft
	Riley	4	holes from	3,793 ft to 3,795 ft
Squeeze Perfs		8	holes from	3,929 ft to 3,929 ft



**Bridge Plug set at 4,025 ft**

	Marcellus	35	holes from	7,562 ft to 7,650 ft
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**Bridge Plug set at 7,720 ft**

	Chert	14	holes from	7,706 ft to 7,720 ft
	Chert	4	holes from	7,726 ft to 7,730 ft
	Chert	10	holes from	7,750 ft to 7,760 ft
	Chert	4	holes from	7,780 ft to 7,784 ft

**Fracturing / Stimulation**

1 <sup>st</sup> Stage	Benson and Riley	Type of Treatment	60Q Foam
	Total Acid 500 Gal of 15% HCl		Breakdown Pressure 3321 psi
	Average Rate 9.8 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 3512 psi
	Total Fluid 1,328bbbls	Total Nitrogen 832,000 scf	Total Sand 70,000 lb of 20/40 M
	ISIP 2816 psi		

Attempted to frac Marcellus but was unable to. Could not establish rate.

**Well Log**

See previous WR-35 form for Well Log information

Cast Iron Bridge Plugs set at 4,025 ft and 7,720 ft

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JUL 02 2009  
WV Department of  
Environmental Protection



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
Oil and Gas Division  
WELL RECORD

RECEIVED  
JAN 12 1981

OIL & GAS DIVISION  
DEPT. OF MINES  
Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle Masontown  
Permit No. 47-077-0207

Company <u>Consolidated Gas Supply Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>445 W. Main St., Clarksburg, WV</u>	Size			
Farm <u>Virginia Durbin</u> Acres <u>318.77</u> Unit	20-16			
Location (waters) <u>Deckers Creek</u>	Cond.			
Well No. <u>12669</u> Elev. <u>1736</u>	<u>13 3/8"</u>	<u>205</u>	<u>205</u>	To surface
District <u>Valley</u> County <u>Preston</u>	<u>9 5/8</u>	<u>1559</u>	<u>1559</u>	To surface
The surface of tract is owned in fee by <u>Jack E. Murray</u>	<u>8 5/8</u>			
Address <u>Roadsville, WV</u>	<u>7</u>			
Mineral rights are owned by <u>V. K. Durbin, Aet.</u>	<u>5 1/2</u>			
Address <u>2400 Ave. Vernon, Ohio 43050</u>	<u>4 1/2</u>	<u>802h</u>	<u>802h</u>	400 Sks.
Drilling Commenced <u>October 1, 1980</u>	<u>3</u>			
Drilling Completed <u>November 2, 1980</u>	<u>2</u>			
Initial open flow <u>0</u> cu. ft. _____ bbls.	Liners Used			
Final production <u>195 AM</u> cu. ft. per day _____ bbls.				
Well open <u>N.A.</u> hrs. before test <u>1 day 2650</u> RP.				

Well treatment details: Attach copy of cementing record.  
Well fractured in Chert with 80,000# sand, 1000 bbls., 5% Hcl & 2000 gals., 15% Hcl.  
Perforations: 7706 - 7720 with 1 1/2 holes, 7726 - 7730 with 1 1/2 holes, 7750 - 7760 with 10 holes & 7780 - 7784 with 1 1/2 holes. Total 32 holes.

Coal was encountered at 108 Feet 1 1/8 Inches  
Fresh water 68, 108 & 135 Feet Salt Water \_\_\_\_\_ Feet  
Producing Sand Chert Depth See perforations

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			20	98		
Shale			98	108		
Coal			108	112		
Sand & Shale			112	850		
Red Rock			850	876		
Sand & Shale			876	1798		
Red Rock			1798	2347		
Shale & Sand			2347	7235		
Lime			7235	7301		
Shale			7301	7656		
Lime			7656	7664		
Chert			7664	7835		
Oriskany			7835	7885		
Lime			7885	7995		
KBM 15' above G. L. Gamma Ray Tops						
Tully			7232			
Onondaga			7641			
Chert			7664			
Oriskany			7835			
Total Depth				7880		

Consolidated Gas Supply Corp.  
445 West Main Street  
Clarksburg, West Virginia  
*[Signature]* Manager of Production

Received  
Office of Oil & Gas

\* Indicates Electric Log tops in the remarks section.

WW-4A  
Revised 6-07

1) Date: April 16, 2013  
2) Operator's Well Number  
912081  
3) API Well No.: 47 - 077 - 00207

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>Donald &amp; Kathy Murray</u> ✓	Name _____
Address <u>5769 Kingwood Pike</u>	Address _____
<u>Reedsville, WV 26547</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Donald &amp; Kathy Murray</u> ✓
	Address <u>5769 Kingwood Pike</u>
	<u>Reedsville, WV 26547</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</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 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 Chesapeake Appalachia, LLC  
 By: Dee Southall  
 Its: Regulatory Analyst II  
 Address P.O. Box 1300  
Jane Lew, wv 26378  
 Telephone 304-517-1416 EXT. 86024

Subscribed and sworn before me this 16th day of April  
Brittany R Woody  
 My Commission Expires 11/27/2022



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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

04/04/2014

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Return Receipt Fee (Endorsement Required)	APR 18 2013
Restricted Delivery Fee (Endorsement Required)	

Postmark  
Here

Donald & Kathy Murray  
5769 Kingwood Pike  
Reedsville, WV 26547



PS Form 3800, August 2006

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Office of Oil & Gas

APR 22 2013

04/04/2014

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Chesapeake Appalachia, LLC OP Code 494477557

Watershed Deckers Creek Quadrangle Masontown 461

Elevation 1729' County Preston 11 District Valley 09

Description of anticipated Pit Waste: Water from plugging process

Will a synthetic liner be used in the pit? yes 20 MIL.

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 2D0072539/2D0413175/2D0610306/2D0610317 )
- Reuse (at API Number at next anticipated well, API# will be included on the WR34/&or permit addendum )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flowback will be put in steel tanks and reused or taken to permitted disposal facility)

SDW  
4/18/13

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain \_\_\_\_\_)
- Swabbing
- Plugging

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 [Signature]

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Analyst II

Subscribed and sworn before me this 16th day of April, 2013

Brittany R Woody

My commission expires 11/27/22

Notary Public

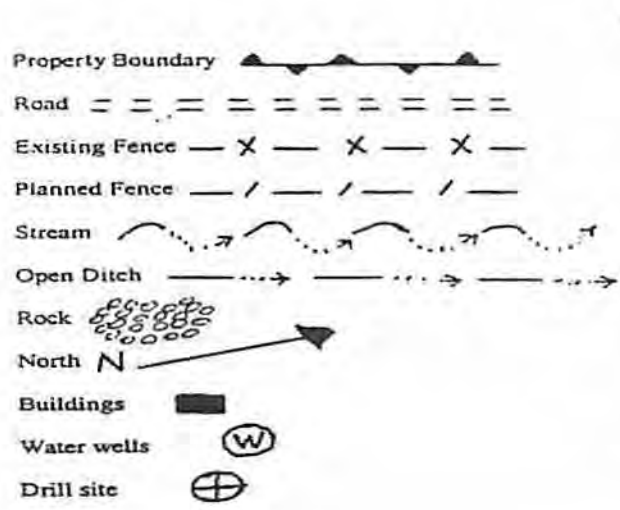


OFFICIAL SEAL  
Notary Public, State of West Virginia  
**BRITTANY R WOODY**  
3302 Old Elkins Road  
Buckhannon, WV 26201  
My commission expires November 27, 2022

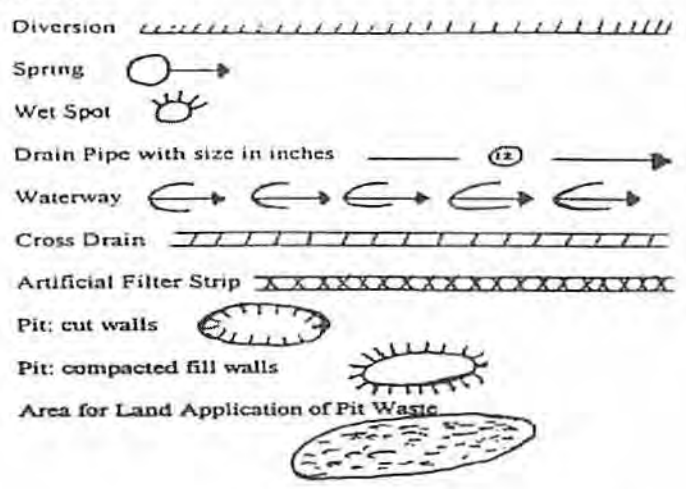
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Office of Oil & Gas

APR 17 2013



**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH \_\_\_\_\_

Lime <sup>as determined by pH test min. 2</sup> \_\_\_\_\_ Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) <sup>500</sup> \_\_\_\_\_ lbs/acre (500 lbs minimum)

Mulch <sup>Hay/Straw</sup> \_\_\_\_\_ Tons/acre

**Seed Mixtures**

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
Orchard Grass	20		Orchard Grass	20	
Red Top	15		Red Top	15	
White Clover	15		White Clover	15	

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. P. O'Warren III

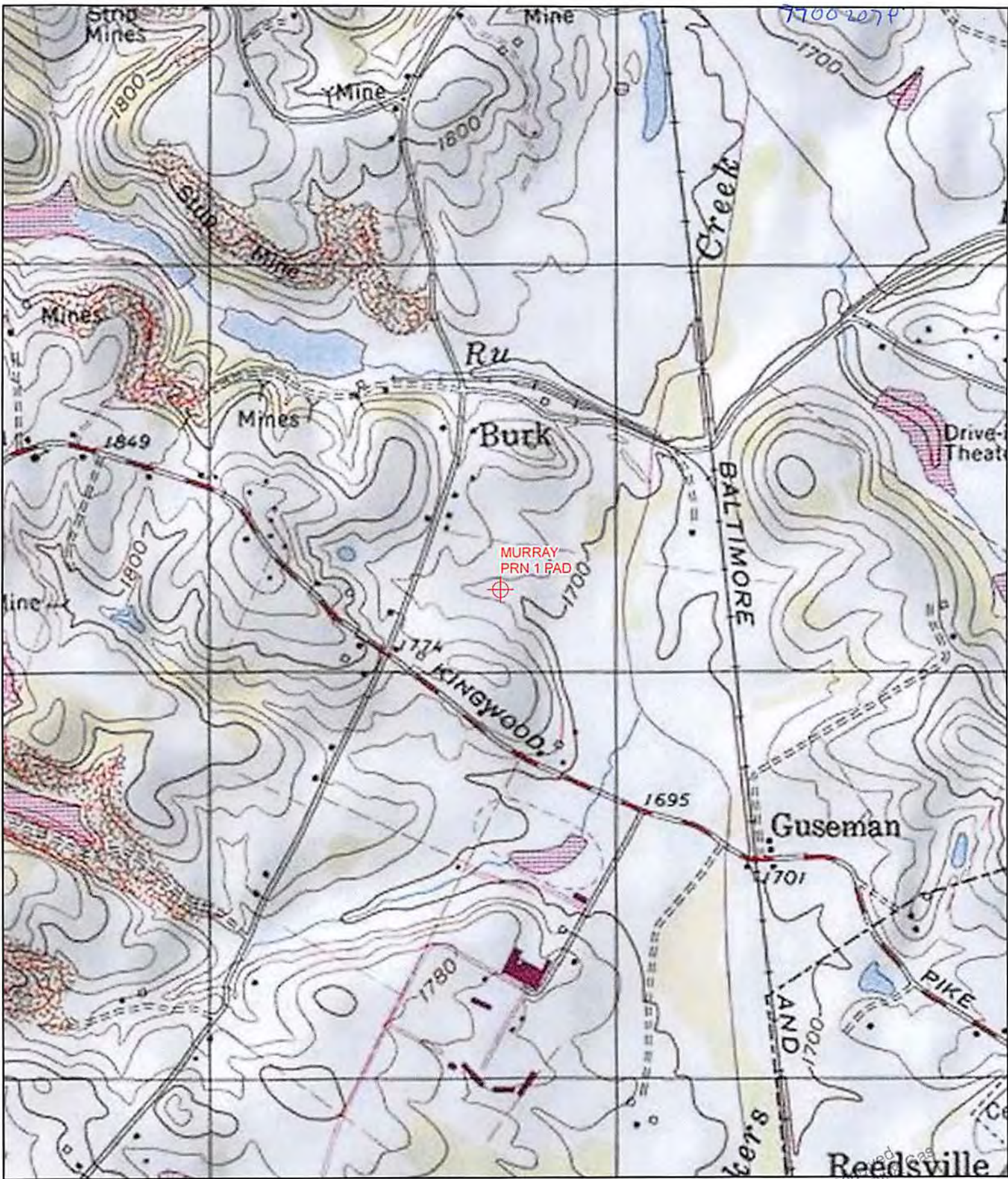
Comments: Contact inspector for all plugs, changes from prognosis, or problems with completing procedure

Title: Oil and Gas Inspector

Date: 4/18/2013

Field Reviewed? ( ) Yes ( X ) No

Received  
Office of Oil & Gas  
APR 17 2013



Well: Murray 1  
 Permit : 4707700207  
 Quad: Masontown  
 District: Valley  
 County: Preston  
 State: WV

Geographic NAD83 UTM 17N  
 Latitidue 39.522319  
 Longitude -79.816365  
UTM NAD83 (Meters)  
 601736.14 E  
 4375409.03 N

0 500 1000 2000 Feet

04/2014

Chesapeake ENERGY

Office of Oil and Gas

WW-7

8-30-06



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

API:47-077-00207

WELL NO.: 912081

FARM NAME: Murray, Donald ET UX

RESPONSIBLE PARTY NAME: Chesapeake Appalachia, LLC

COUNTY: Preston DISTRICT: Valley

QUADRANGLE: Masontown

SURFACE OWNER: Donald & Kathy Murray

ROYALTY OWNER: Deborah & Terrance Randall

UTM GPS NORTHING: 4375409.03

UTM GPS EASTING: 601736.14

GPS ELEVATION: 1729'

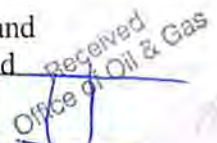
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:  
Survey grade GPS \_\_\_\_ : Post Processed Differential \_\_\_\_  
Real-Time Differential \_\_\_\_  
Mapping Grade GPS \_\_\_\_ : Post 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.

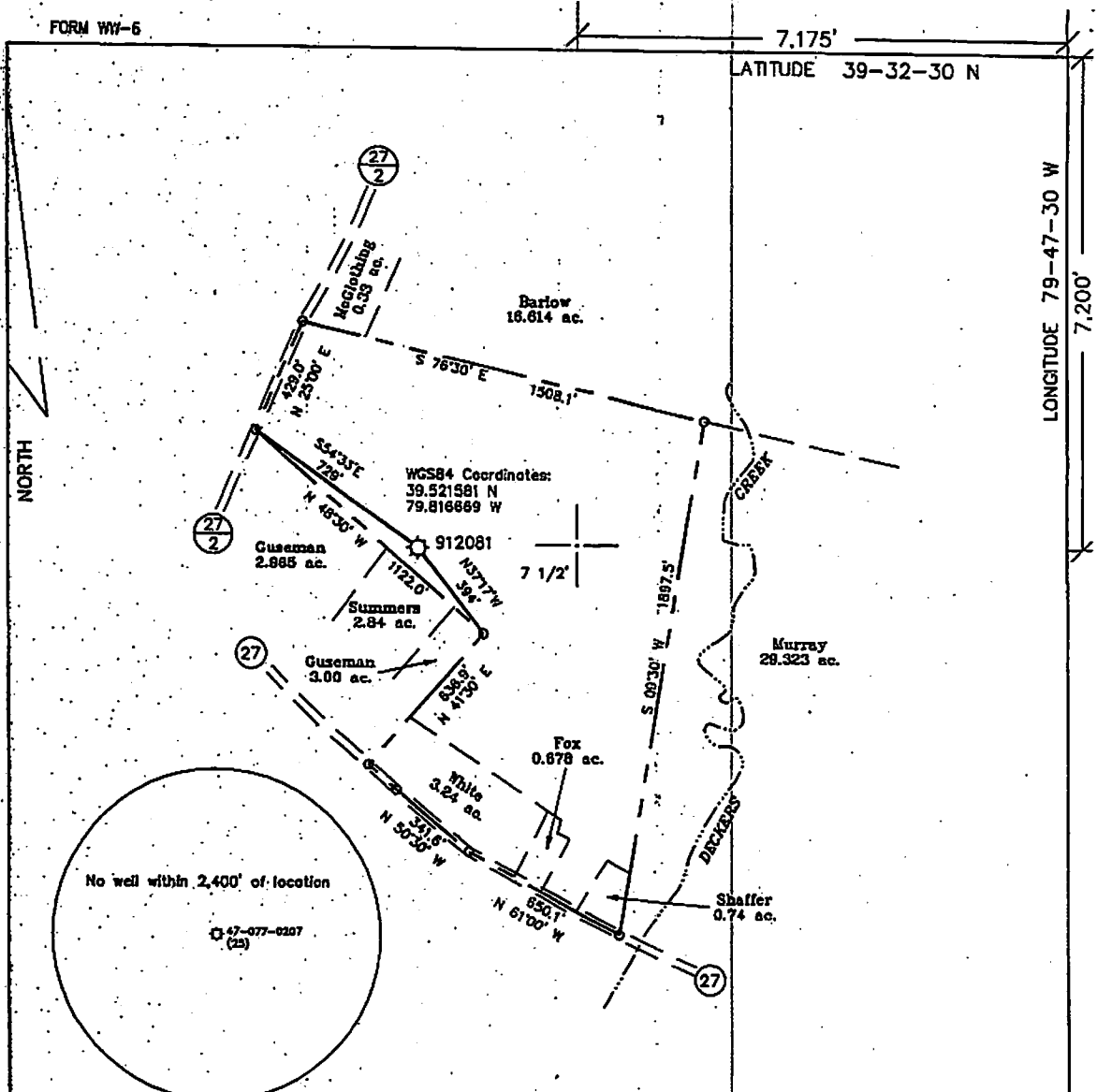
Signature \_\_\_\_\_  
Date 4/18/13

Title Reg. Analyst



04/04/2014

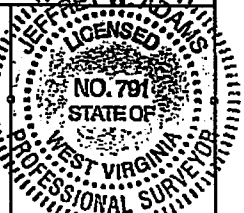




(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION GPS  
Submeter unit.

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 ENERGY  
 (SIGNED) [Signature]  
 R.P.E. L.L.S. 791



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE September 19 2006  
 OPERATOR'S WELL NO. 912081  
 API WELL NO. 47-077-0207

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

LOCATION: ELEVATION 1,729' WATER SHED Deckers Creek  
 DISTRICT Valley COUNTY Preston  
 QUADRANGLE Masonstown 7 1/2'

SURFACE OWNER Donald Murray, et ux. ACREAGE 40.34 ac.  
 OIL & GAS ROYALTY OWNER Virginia Durbin, et al. LEASE ACREAGE 45 ac. of 173 ac.  
 LEASE NO. 7-004483-000

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 Marcellus ESTIMATED DEPTH 2,665'  
 WELL OPERATOR Chesapeake Appalachia, LLC. DESIGNATED AGENT Michael John  
 ADDRESS P.O. Box 6070, Charleston, WV 25362-0070 ADDRESS P.O. Box 6070, Charleston, WV 25362-0070

COUNTY NAME  
 PERMIT received  
 Office of Oil & Gas