

#### 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

March 23, 2016

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-4902414, issued to CONSOLIDATION COAL COMPANY, 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: 5100

Farm Name: CONSOL ENERGY

API Well Number: 47-4902414
Permit Type: Plugging

Date Issued: 03/23/2016

#### **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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

#### **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.

FORM WW-4(B) Rev. 2/01

1.) Date:M	arch 11	,;	20 <u>16.</u>
2.) Operator's W	/ell No	5100	
3.) API Well No	. 47	- 49 -	
•	State	County	Permit

## STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL & GAS APPLICATION FOR A PERMIT TO PLUG & ABANDON

		- 0	12000:12:12:00:	
4.) WELL TYPE:	Oil X / Gas / / (IF "Gas", Production //	Liquid injection Underground storage	/ Waste disposal/ Deep	_/ / Shallow <u>X</u>
5.) LOCATION:	Elevation: <u>1435.42'</u>	Watershed: Long	Drain of Buffalo Creek	<del>.</del>
	District: <u>Mannington</u>	County: Marion	Quadrangle: Glove	er Gap 7.5' .
6.) WELL OPERAT	TOR <u>Consolidation Coal Co.</u>		7.) DESIGNATED AC	GENT <u>Ronnie Harsh</u> .
Address	1 Bridge St.		Address	1 Bridge St.
	Monongah, WV 26554		_	Monongah, WV 26554
8.) OIL & GAS INS	PECTOR TO BE NOTIFIED		9.) PLUGGING CON	TRACTOR
Name	Bill Hendershot_		Name	
Address _	403 James St.		Address	<b>_</b>
	Mannington, WV 26582		<u></u>	<u>.</u>
		SEE EXHIBIT NO. 1	l	Received Office of Oil & Ga
				Office of Oil & Ga
				MAR 17 2016
		<u> </u>		
Notification must be	given to the district oil and gas insp	pector 24 hours before permi	tted work can commence.	
Work order approved	l by inspector		Date	

#### **EXHIBIT NO.1**

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal's Northern West Virginia Operations will utilize one of the following two methods to plug all future wells.

#### 4 ½ VENT PIPE METHOD

- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below the lowest minable coal seam.
- (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- (c) Run 4 ½ casing from surface to a minimum of 200 feet below lowest minable coal seam and circulate 50/50 poz mix cement followed by expanding cement to surface. The expanding cement shall extend from a minimum of 200 feet below minable coal seam to a point 100 feet above.

The 4 ½ will remain open from surface to a minimum of 80 feet below that minable coal seam.

#### SOLID PLUG METHOD

- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- (c) Circulate through tubing or drill steel an expanding cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel 50/50 poz mix from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

Received
Office of Oil & Gas
MAR 1 7 2016

03/25/2016

FORM WW-4(A) Revised 6-07

1) Date:	March 11, 20	16	
2) Opera	tor's Well No	5100	
3) API W	/ell No. 47 – 4	19 -	
	State Co	unty Permit	

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

4) SURFACE OWN (a) Name Consol E		5)a) COAL OPERATOR  Name CONSOLIDATION COAL CO.
Address 1000 Con	sol Energy Dr.	Address 1 Bridge St.
Canonsbu	rg, PA 15317	Address 1 Bridge St
(h) Nama		
Address		(b) COAL OWNER(S) WITH DECLARATION: Name
100 A		NameAddress
( ) ) !		1,444,40
A 111		
national state of		(c) COAL LESSEE WITH DECLARATION:
		Name
Address		Address Office as a least of the least of th
		Name Address Office of Oil & (MAR 17 2016
Telephone		MAD TA
		MAR 1 / 2016
	work order; and The Plat (surveyor's map) showing the	well location on Form WW-6.
		NTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION
WHICH ARE (FORM WY Take and Applic Virginia Do on the attac	SUMMARIZED IN THE "INSTRUCTION V-4(B) DESIGNATED FOR YOU. HOW notice under Chapter 22-6 of the West Virgination and accompanying documents for a perpartment of Environmental Protection, with hed From WW-6. Copies of this Notice, the	NTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION ONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION EVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.  inia Code, the undersigned well operator proposes to file or has filed this Notice rmit to plug and abandon a well with the Chief of the Office of Oil and Gas, West respect to the well at the location described on the attached Application and depicted exapplication, and the plat have been mailed by registered or certified mail or delivery by the certain circumstances) on or before the day of mailing or delivery by the Chief.
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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.

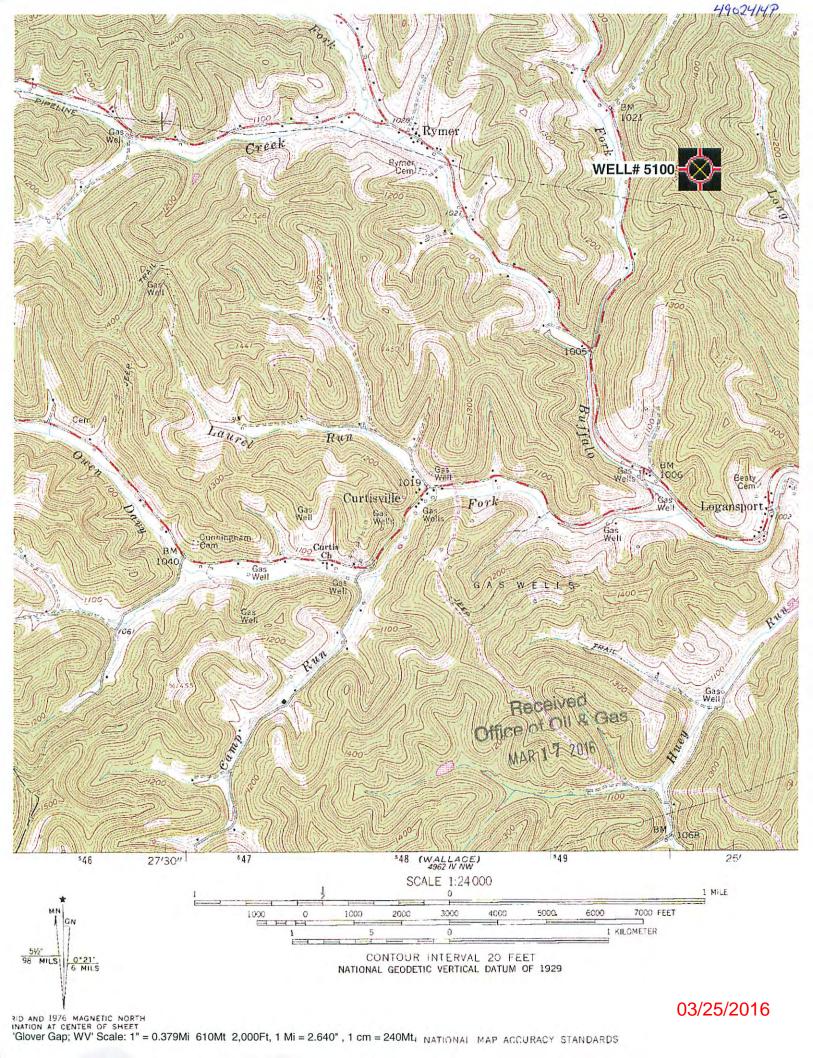
.WW-9 Rev. 5/08

P	age		of	
API Number 47 -	049	41		
Operator's Well No	. 5100	<u> </u>		

### 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	Consolidation Coa	l Company	OP Code10950	
Watershed Lo	ng Drain of Buffalo C	Creek Quadrang	le Glover Gap	
Elevation	1435.42'	County Marion	District Manning	gton
Description of	anticipated Pit Waste:	N/A		
Do you anticipa	ate using more than 5,0	000 bbls of water to complete the proposed	d well work? Yes	No <u>X</u>
Will a synthetic	c liner be used in the p	it? If so, what	mil.?	
Proposed Dispo	Reuse (at A		ocation)	)
If oil be Additives to be Drill cuttings d -If left	m anticipated for this versed, what type? Syn eused? Bentonit	well? Air, freshwater, oil based, etcthetic, petroleum, etc.?e, Bicarbonate of Soda  e in pit, landfill, removed offsite, etclify what medium will be used? Cement, mit number?	Freshwater  Reused or Disposed (see attallime, sawdust	iched letter)
on August 1, 20 provisions of the law or regulation of the law or regulation for application for obtaining the i	2005, by the Office of Of the permit are enforced on can lead to enforcent ify under penalty of later of and all attachment information, I believe bmitting false information	we that I have personally examined and is thereto and that, based on my inquiry that the information is true, accurate, and tion, including the possibility of fine or im-	ent of Environmental Protection of the general permit am familiar with the informaty of those individuals immend complete. I am aware the prisonment.	on. I understand that the and/or other applicable ation submitted on this ediately responsible for lat there are significant
Company Offic	cial Signature	Romi Hud		Received_
Company Offic	cial (Typed Name)	Ronnie Harsh		e of Oil & Gas AR 1 7 2016
Company Offic	cial Title	Project Engineer	(VI	AR I 4 ZUID
Subscribed and	sworn before me this_	1/th day of March		FFICIAL SEAL



Date



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

API: 47-049-	WELL NO.: 5100
FARM NAME: J. L. Beatty #3	
RESPONSIBLE PARTY NAME:	
COUNTY: Marion	DISTRICT: Mannington
QUADRANGLE: Glover Gap	
SURFACE OWNER: Consol Ene	rgy Inc.
ROYALTY OWNER:	
UTM GPS NORTHING: 4,376,723	3 m
UTM GPS EASTING: 549,957 m	GPS ELEVATION: 437 m
preparing a new well location plat for a above well. The Office of Oil and Gas with the following requirements:  1. Datum: NAD 1983, Zone: 1' height above mean sea level	
<ol> <li>Accuracy to Datum – 3.05 m</li> <li>Data Collection Method:</li> </ol>	Office of Oil & Gas
Survey grade GPS: Post Proce Real-Time Mapping Grade GPS _X: Post I Real-Time	essed Differential MAR 1 7 2016
I the undersigned, hereby certify this da	ta is correct to the best of my knowledge and uired by law and the regulations issued and
434	Professional Surveyor
Signature	Title
March 11, 2016	5575

