

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: 47-4902415, 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

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James Martin

Operator's Well No: 5545

Farm Name: CONSOL ENERGY

API Well Number: 47-4902415

Permit Type: Plugging
Date Issued: 03/23/2016

Promoting a healthy environment.

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:	March 11		, 20_1		<u> 16 .</u>	
2.) Operator's Well No.		5545				
3.) API We	ll 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

	ATTECATION	TORATERAMIT TO	, I Bed a libit look	
4.) WELL TYPE:	Oil X / Gas / / (IF "Gas", Production/	Liquid injection / Underground storage	_/ Waste disposal/ Deep	_/ _/ Shallow <u>X</u>
5.) LOCATION:	Elevation: <u>1123.06'</u>	Watershed: Long	Drain of Buffalo Creek	
	District: <u>Mannington</u>	County: Marion	Quadrangle: Glove	er Gap 7.5' .
6.) WELL OPERA	TOR <u>Consolidation Coal Co.</u>		7.) DESIGNATED AC	GENT Ronnie Harsh
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	<u></u>
Address	403 James St.		Address	_
	Mannington, WV 26582		_	
		SEE EXHIBIT NO.	I	
		SEE EXHIBIT NO.	1	Received Office of Oil & Ga
				MAR 1 7 2016
				With
Notification must be	given to the district oil and gas in:	spector 24 hours before perm	nitted work can commence.	
Work order approve	d 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.

Received Office of Oil & Gas

MAR 17 2016

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".

FORM WW-4(A) Revised 6-07

1) Date:	March 11, 20	16	
2) Operat	tor's Well No.	5545	
3) API W	/ell No. 47 – 4	19 -	

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

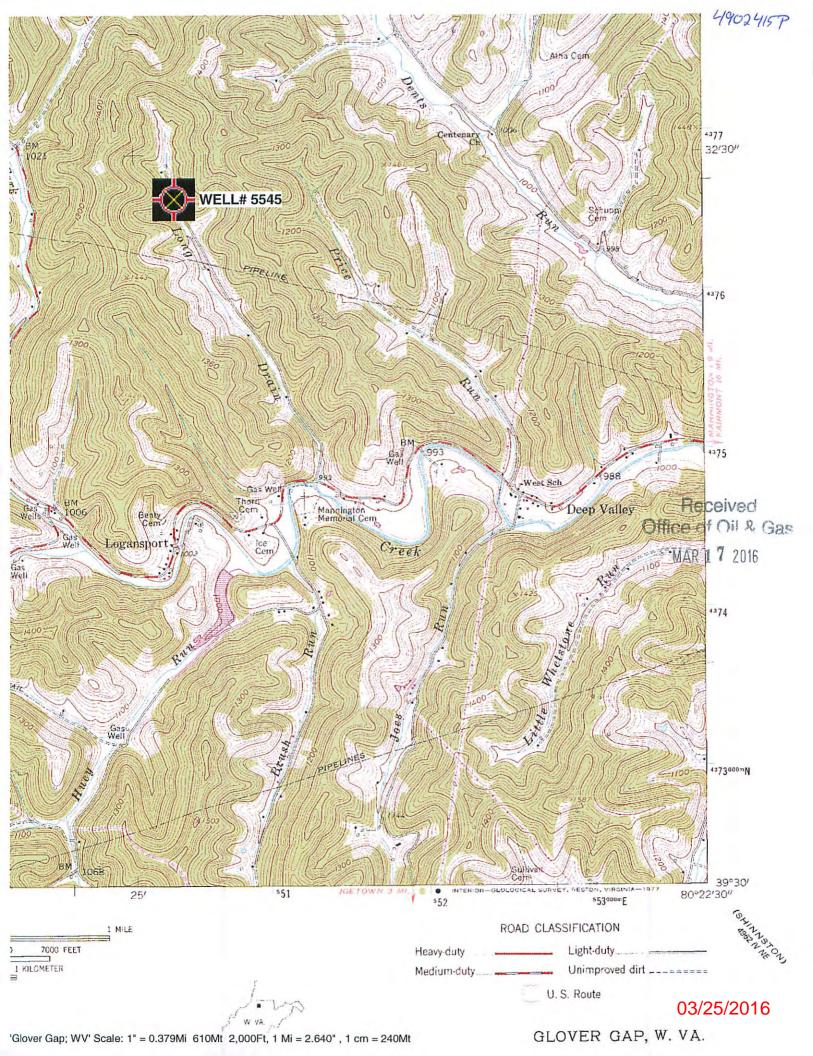
4) SURFACE OWNER(S) TO BE SERVED (a) Name Consol Energy Address 1000 Consol Energy Dr. Canonsburg, PA 15317	5)a) COAL OPERATOR Name CONSOLIDATION CO Address 1 Bridge St. Monongah, WV 26554	OAL CO.
(b) Name Address	(b) COAL OWNER(S) WITH DECLAR Name Address	RATION:
(c) Name Address (6) INSPECTOR Address	(c) COAL LESSEE WITH DECLARAT Name Address	
Telephone		
(1) The Application to Plug and Abandon a V	es the well and its location and the plugging	wing docum Re ceived Office of Oil & Gas MAR 1 7 2016
THE REASON YOU RECEIVED THESE DOCUMENT WHICH ARE SUMMARIZED IN THE "INSTRUCTION (FORM WW-4(B) DESIGNATED FOR YOU. HOWE)	'S IS THAT YOU HAVE RIGHTS REGARDING THI NS" ON THE REVERSE SIDE OF THE COPY OF TH	IE APPLICATION
Take notice under Chapter 22-6 of the West Virgini and Application and accompanying documents for a perm Virginia Department of Environmental Protection, with re on the attached From WW-6. Copies of this Notice, the A hand to the person(s) named above (or by publication in co	spect to the well at the location described on the attached application, and the plat have been mailed by registered or	of Oil and Gas, West Application and depicted certified mail or delivery by
	WELL OPERATOR Consolidation Coal C By Ronnie Harsh Its Project Engineer / Agent Address 1 Bridge St. Monongah, West Virginia	. 26554
Rome Hand	Telephone (304) – 534 – 4748	
Subscribed and sworn before me this	est Disginis	OFFICIAL SEAL (Public, State of West Virginia IANET L LIEVING 99 Broadview Avenue Fairmont, WV 26554 nmission expires June 13, 2024
Oil and Gas Privacy Notice The Office of Oil and Gas processes your personal information may be disclosed to other State agen regulatory requirements, including Freedom of Informatio questions about our use of your personal information, please	cies or third parties in the normal course of business or as on Act requests. Our office will appropriately secure your	needed to comply with statutory or personal information. If you have any

Pa	ge		of_	
API Number 47 -)49	-		
Operator's Well No.	5545			

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	e_Consolidation Co	oal Company		OP Code1095	50
Watershed Lo	ng Drain of Buffalo	Creek	Quadrangle _	Glover Gap	
Elevation	1123.06'	County Marion		DistrictM	(annington
Description of	anticipated Pit Waste	::N/A			
Do you anticip	ate using more than 5	5,000 bbls of water to complet	e the proposed we	ell work? Yes	NoX
Will a synthetic	c liner be used in the	pit? N/A	If so, what mil	.?	
Proposed Dispo	Reuse (at		for disposal locati	ion))
If oil	based, what type? Sy	well? Air, freshwater, oil bar inthetic, petroleum, etc.? ite, Bicarbonate of Soda			
-If lef	t in pit and plan to so	ive in pit, landfill, removed of lidify what medium will be usermit number?	sed? Cement, lime	e, sawdust	
on August 1, 2 provisions of t law or regulated I certi application for obtaining the i	005, by the Office of the permit are enforce on can lead to enforce ify under penalty of rm and all attachme information, I believe abmitting false information	and agree to the terms and con Oil and Gas of the West Virg eable by law. Violations of a ement action. law that I have personally ents thereto and that, based on that the information is true that the information is tr	inia Department of any term or conditions: examined and ame on my inquiry of e, accurate, and of y of fine or impris	of Environmental P tion of the general familiar with the f those individual complete. I am a sonment.	rotection. I understand that permit and/or other applical information submitted on the simmediately responsible
	cial (Typed Name)	Ronnie Harsh			MAR 1 7 2016
Company Office		Project Engineer			2 2010
Subscribed and	I sworn before me thi	s_//th_day of_	March	20 <u>/6</u>	ic OFFICIAL SEAL
My commission	n expires	June 13, 202	4		Notary Public, State of West Virginia JANET L LIEVING 199 Broadview Avenue Fairmont, WV 26554 My commission expires June 13, 2024





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

API: 47-049-	WELL NO: 5545	
A11. 47-045-	WELL NO	,
FARM NAME: J. L. Beatty		
RESPONSIBLE PARTY NAME:		
COUNTY: Marion	DISTRICT: Manning	ton
QUADRANGLE: Glover Gap		
SURFACE OWNER: Consol Energy In	nc.	
ROYALTY OWNER:		
UTM GPS NORTHING: 4,376,771 m		
UTM GPS EASTING: 550,405 m	GPS ELEVATION:	342 m
The Responsible Party named above has chospreparing a new well location plat for a plugg above well. The Office of Oil and Gas will not the following requirements: 1. Datum: NAD 1983, Zone: 17 Northeight above mean sea level (MSI 2. Accuracy to Datum – 3.05 meters	ging permit or assigned API nurther accept GPS coordinates that the theorem of the coordinate Units: meters, AL) – meters.	imber on the do not meet
3. Data Collection Method: Survey grade GPS: Post Processed I Real-Time Diffe	erential	MAR 1 7 2016
Mapping Grade GPS X : Post Proces Real-Time D	ssed Differential X	
4. Letter size copy of the topograph	hy map showing the well loca	ation.
I the undersigned, hereby certify this data is c		
belief and shows all the information required		
prescribed by the Office of Oil and Gas.		
175.7	Professional Surveyo	r
Signature	Title	
March 11, 2016	27.11.7	

