

#### 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

June 14, 2016

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-9100636, issued to ICG TYGART VALLEY, 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: FREEZE D-38

Farm Name: FREEZE, GERALD & KATHLEEN

James Martin

API Well Number: 47-9100636 Permit Type: Plugging

Date Issued: 06/14/2016

### **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. 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.

1) Date April 27		2016
2) Operator's Well No. D-38		
3) API Well No.	47-91	- 00636

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

#### APPLICATION FOR A PERMIT TO PLUG AND ABANDON

5)	Location: Elevation 1391	nderground storage) Deep/ Shallo  Watershed Flag Run	
	District Knottsville	County Taylor Quadrangle Grafton (378)	
6)	Well Operator Address Address ICG Tygart Valley, LLC Tygart Drive Grafton, WV 26354	7) Designated Agent Charles E. Duckworth Address 100 Tygart Drive Grafton, WV 26354	
8)	Oil and Gas Inspector to be notified Name Kenneth Greynolds	9) Plugging Contractor Name Coastal Drilling East, LLC	
	Address 613 Broad Run Road	Address 130 Meadows Ridge Road	
	Jane Lew, WV 26378	Mt. Morris, PA 15349	
	make role Zeth. For	1 # / when less Mine 08 50	of official
	MSHA 101C Petitien for Tygor	HECEIVED Office of Oil and Office of Oil and Office of Oil and	WV Department of Environmental Protection

# POWER OF ATTORNEY ICG TYGART VALLEY, LLC TO GREG NAIR

<u>Dated: January 1, 2016</u> <u>Expires: December 31, 2016</u>

KNOW ALL MEN BY THESE PRESENTS: That ICG Tygart Valley, LLC, a limited liability company organized and existing under the laws of the State of Delaware (the "Company"), acting by and through Robert G. Jones, its duly authorized Secretary, has and does hereby appoint Greg Nair its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Company, during the period specified above, and subject to the restrictions and limitations set forth in this Power of Attorney to execute and deliver in the ordinary and regular course of the Company's business, applications for mining, environmental, safety and health permits, permit transfers, or permit bond releases or bond adjustments, amendments, supplements or modifications to such permits, certificates or other instruments directly related to such amendments, supplements or modifications, monthly production reports, air quality, water quality or other environmental reports, quarterly discharge monitoring reports and any other like or similar reports required to be filed with any local, state or federal governmental agency.

The Attorney herein appointed shall be authorized to act pursuant to this Power from the date hereof only so long as such Attorney shall remain an employee of Arch Coal, Inc. or any subsidiary thereof, or until December 31, 2016, or until such earlier time as this instrument has been revoked, annulled, rescinded or set aside by an instrument of revocation filed with the Secretary of the Company, whichever first occurs.

IN WITNESS WHEREOF, the Company has caused this Power of Attorney to be executed on its behalf, and its seal to be hereunto affixed as of the day and year first above written, by the undersigned, Robert G. Jones, duly authorized Secretary of the Company.

ICG TYGART VALLEY, LLC

Robert G. Jones

Secretary

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JUN 0 6 2016

STATE OF MISSOURI ) ss COUNTY OF ST. LOUIS

On this 16th day of December, 2015, before me, the undersigned notary public, personally appeared Robert G. Jones, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: <u>McCember</u> 1, 2017

PEGGY FELDMANN Notary Public - Notary Seal State of Missouri

Commissioned for St. Louis County My Commission Expires: December 01, 2017 Commission Number: F13552693

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#### EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, ICG Tygart Valley, LLC will utilize the following method to plug all future wells.

#### **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 from 100 feet above coal seam to surface.

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

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#### **EXHIBIT No. 2**

Coastal Drilling East LLC • 130 Meadow Ridge Road, Mt. Morris, PA 15349

Phone 304-296-1120 Fax 304-413-0061

"A Shaft Drillers International Company"

05/26/2016

ice of Oil and

Mr. Chuck Duckworth
Gas Well & Property Manager
Arch Coal, Inc. – Leer Mine Complex
100 Tygart Drive
Grafton, WV 26354

Mr. Duckworth,

Below is the proposed plugging plan we discussed that can be used on wells similar to the wells we have been plugging for the last few years.

Plugging Plan

- Move to site, rig up, mix mud, drill rathole
- Attempt to clean out well to original total depth (TD).
- Run cement bond log on 4 1/2" casing to determine top of cement
- Set bottom hole cement plug as required by the WV DEP from TD to top of cement determined by the bond log.
- Tag top of bottom hole plug to insure plug is at correct depth. Re-cement if necessary.
- Cut and pull 4 1/2" casing from the free point determined by the bond log.
- Clean out wellbore to top of remaining 4 1/2" casing
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement hole from top of bottom hole plug to a depth within 25' of the bottom of the 8 5/8" casing.
- · If necessary cut and pull any free casing.
- Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition.

WV Department of Environmental Protection

- Cement hole from top of intermediate plug to surface using cement required by MSHA's 101C Petition.
- Rig down and set monument as required by WV DEP.

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00636

WW-4A Revised 6-07

1)	Date:	April 27, 2016	
2)	Operator	's Well Number	
D-38		- CO X F1	

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

3) API Well No.: 47 -

The state of the s		(a) Coal Operato	
(a) Name	Gerald and Kathleen Freeze	_ Name	CoalQuest Development, LLC
Address	1095 Park View Road	Address	2708 Cranberry Square
2045	Grafton, West Virginia 26354	4 0.000	Morgantown, West Virginia 26508
(b) Name			wner(s) with Declaration
Address		Name	
		Address	
(c) Name		Name	
Address		Address	
3) Inspector	Kenneth Greynolds	_	ssee with Declaration
Address	613 Broad Run Road	Name	All the book and the second
	Jane Lew, WV 26378	Address	
Telephone	(304) 206-6613		
Protection the Applic	ying documents for a permit to plug and abandon a v , with respect to the well at the location described or	well with the Chief of the n the attached Applicat or certified mail or de	I operator proposes to file or has filed this Notice and Application and he Office of Oil and Gas, West Virginia Department of Environmental tion and depicted on the attached Form WW-6. Copies of this Notice, elivered by hand to the person(s) named above (or by publication in
	Well Operator	ICG Tygart Valley, LL	ic m = -
	By:	Charles E. Duckworth	
	Its:	Designated Agent	The state of the s
	Address	100 Tygart Drive	DECEIVED
	Huttess	Grafton, West Virginia	a 26354
	Telephone	(304) 265-9704	Office of Oil and Gas
	(mm	······································	JUN 0,6 2016
Subscribed and		ay of April Notaly Pu	Notary Public WV Department of
	n Expires December 22, 2019	Thomas Green	Environmental Protection
and a seminary		324 Webster Avenue, Morg	gantown, WV 26501 5
Oil and Gas Priv	acy Notice	My Commission Expires D	

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 <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

06/17/2016



#### ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

May 24, 2016

Gerald and Kathleen Freeze 1095 Park View Road Grafton, West Virginia 26354

Re: Plugging Permit – API # 47-91-00636 – D-38

Dear Mr. & Mrs. Freeze:

As required by the permit process of the WV Department of Environmental Protection – Office of Oil and Gas enclosed please find a copy of the plugging permit application for the above referenced well that ICG Tygart Valley, LLC plans to submit to the WV Department of Environmental Protection, Office of Oil and Gas.

If you have no objection to the plugging permit application, please sign the page titled Surface Owner Waiver and return to my attention to the address listed on the letterhead.

If you should have any questions concerning this application please feel free to contact Charles Duckworth at (304) 265-9704 or me at (304) 265-9778 or via email at <a href="mailto:gnair@archcoal.com">gnair@archcoal.com</a>.

Sincerely,

Greg Nair

Manager Surface Mine Planning

Enclosures

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JUN 0.6 2016

WV Department of Environmental Protection

CERTIFIED MAIL NO. 7015 3010 0001 7053 1563 RETURN RECEIPT REQUESTED

API No.	47-91-00636
Farm Name	Gerald and Kathleen Freeze
Well No	D-38

#### INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAIVER
has examined this proposed plugging w	X / owner / lessee / of the coal under this well location rork order. The undersigned has no objection to the work proposed to be all operator has complied with all applicable requirements of the West tions.
Date: 4 27 16	CoalQuest Development, LLC
	By: Greg Nair
	Power of Attorney
	RECEIVED Office of Oil and Gas Office of Oil and Gas
	WAN Department of

#### POWER OF ATTORNEY

## COALQUEST DEVELOPMENT LLC TO GREG NAIR

Dated: January 1, 2016

Expires: December 31, 2016

KNOW ALL MEN BY THESE PRESENTS: That CoalQuest Development LLC ("Company"), a limited liability company organized and existing under the laws of the State of Delaware, acting by and through Robert G. Jones, its duly authorized Secretary, has and does hereby appoint Greg Nair its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Company, during the period herein specified, and subject to the restrictions and limitations set forth in this Power, to execute, acknowledge and deliver in the ordinary and regular course of the Company's business, applications for mining, environmental, safety, and health permits, permit transfers, or permit bond releases or bond adjustments, amendments, supplements or modifications to such permits, certificates, gas well plugging applications, shallow well drilling permit applications, or other instruments directly related to such amendments, supplements or modifications, monthly production reports, air quality, water quality or other environmental reports, quarterly discharge monitoring reports and any other like or similar reports required to be filed with any local, state or federal governmental agency.

The Attorney herein appointed shall be authorized to act pursuant to this Power from the date hereof only so long as such Attorney shall remain an employee of Arch Coal, Inc. or any subsidiary thereof, or until December 31, 2016, or until such earlier time as this instrument has been revoked, annulled, rescinded or set aside by an instrument of revocation filed with the Secretary of the Company, whichever first occurs.

IN WITNESS WHEREOF, the Company has caused this Power of Attorney to be executed on its behalf, and its seal to be hereunto affixed as of the day and year first above written, by the undersigned, Robert G. Jones, duly authorized Secretary of the Company.

COALQUEST DEVELOPMENT LLC

Robert G. Jones

Secretary

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JUN 0 6 2015

On this 16th day of December, 2015, before me, the undersigned notary public, personally appeared Robert G. Jones, known to me to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: Meseruber 1, 2017

PEGGY FELDMANN

PEGGY FELDMANN
Notary Public - Notary Scal
State of Missouri
Commissioned for St. Louis County
My Commission Expires: December 01, 2017
Commission Number: F13552693

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ı.	EGEND
Property Boundary	Diversion (22/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/
Road = = = = = = = = = = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches
Stream Stream	Waterway $\longleftrightarrow$
Open Ditch	Cross Drain ////////////////////////////////////
Rock 65566	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
	/2 0
Proposed Revegetation Treatment: Acres Disturbed	Prevegetation pH
Lime3 Tons/acre or to correct to pH	6.5
Fertilizer (10-20-20 or equivalent) 500 lbs/a	acre (500 lbs minimum)
Hay Bales	dere (500 los iminimum)
MulchTons/ac	cre
Seed	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type lbs/acre
Orchard Grass 12	Orchard Grass 12
Landino Clover 3	Landino Clover 3
Timothy 10	Timothy 10
Attach:	
Drawing(s) of road, location,pit and proposed area for land appli	ication.
Photocopied section of involved 7.5' topographic sheet.	
See attached	RECEIVED
21/1	Office of Oil and Gas
Plan Approved by: Land Hayrells	Omoo or on arre
Comments: RECLAIM & MESSED B.	9P JUN 0,6 2016
	WV Department of
Title: OIL & GDS INSPECTOR	Environmental Protection  Date: 6-3-16
1/	) No.
Field Parioured? (Ves (V	1 NO

91006369



### ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

April 27, 2016

WV Department of Environmental Protection Office of Oil and Gas 601 – 57<sup>th</sup> Street, S.E. Charleston, West Virginia 25304

To Whom It May Concern:

As per the WV Department of Environmental Protection, Office of Oil and Gas request, ICG Tygart Valley, LLC, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without a general permit for Oil and Gas Pit Waste Discharge Application), ICG Tygart Valley, LLC, will construct no pits, but instead will use mud tanks to contain all drilling muds.

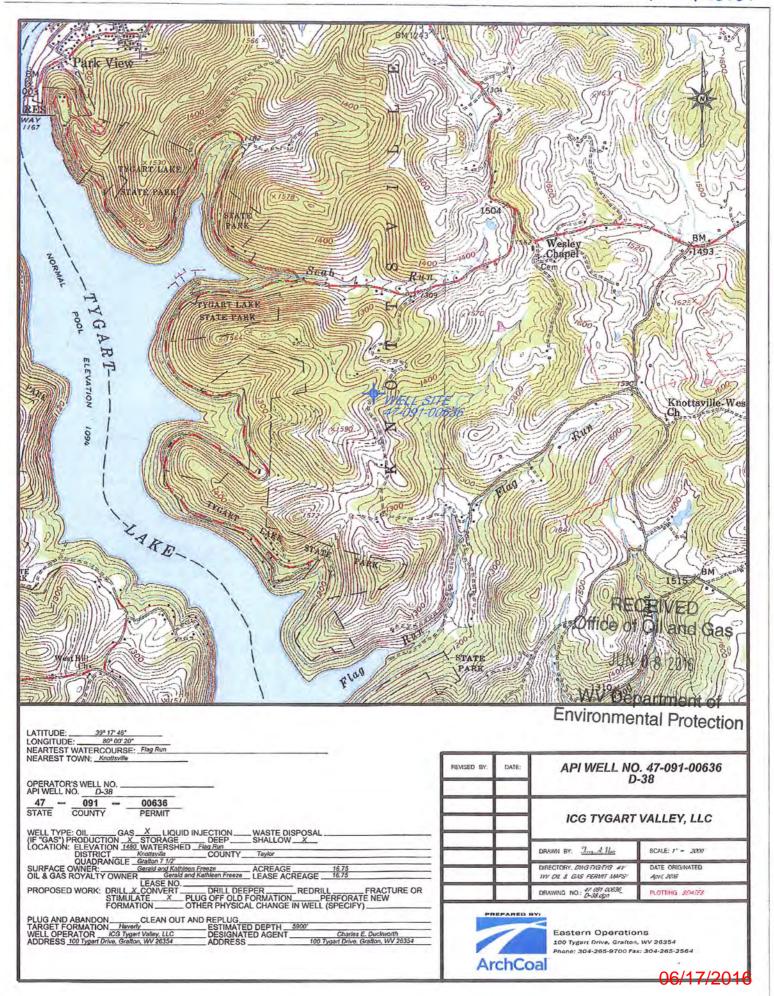
Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP impoundment facilities O-2017-06.

Sincerely,

Charles E. Duckworth Designated Agent

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Office of Oil and Gas

JUN 0 6 2015





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

API: 47-091-000636	WELL	NO.: D-38
FARM NAME: Gerlad and	d Kathleen Freeze	
RESPONSIBLE PARTY NA	Kathleen Freeze  AME: ICG Tygart Valle	y, LLC
	DISTRICT	
QUADRANGLE: Grafto	n	
SURFACE OWNER: Geral	ld and Kathleen Freeze	
ROYALTY OWNER: Gera	ld and Kathleen Freeze	
UTM GPS NORTHING: 43	50117.833 65.844 GPS EL	
UTM CDS EASTING 5857	65.844 CPS FI	EVATION: 1466.14
The Responsible Party named preparing a new well location above well. The Office of Oil	above has chosen to submit GP plat for a plugging permit or ass and Gas will not accept GPS co-	S coordinates in lieu of signed API number on the
The Responsible Party named preparing a new well location above well. The Office of Oil the following requirements:  1. Datum: NAD 1983 height above mean 2. Accuracy to Datum 3. Data Collection M	above has chosen to submit GP plat for a plugging permit or ass and Gas will not accept GPS constants. The sea level (MSL) – meters. In – 3.05 meters ethod:	S coordinates in lieu of signed API number on the ordinates that do not meet nits: meters, Altitude:  RECEIVED  Office of Oil and Gas
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The Responsible Party named preparing a new well location above well. The Office of Oil the following requirements:  1. Datum: NAD 1983 height above mean 2. Accuracy to Datum 3. Data Collection M Survey grade GPS _ X _ : I	above has chosen to submit GP plat for a plugging permit or ass and Gas will not accept GPS constant of the sea level (MSL) – meters. In – 3.05 meters sethod:  Post Processed Differential  Real-Time Differential  Post Processed Differential	S coordinates in lieu of signed API number on the ordinates that do not meet nits: meters, Altitude:  RECEIVED  Office of Oil and Gas
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