

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

April 11, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9100495, 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.

James Martin

Chief

Operator's Well No: J-1218

Farm Name: FORMAN, FRED

API Well Number: 47-9100495

Permit Type: Plugging

Date Issued: 04/11/2014

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

- 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	e March 12		20 14
	rator's		
	No. J-1218		20105
3) API	Well No.	47-91	- 00495

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

5)	Location: Elevation 1705	Watershed Swam	p Run
	District Knottsville	County Taylor	Quadrangle Thornton (638)
6)	Well Operator ICG Tygart Valley, LLC	7) Decimated Ad	gent Charles E. Duckworth
5./	Address 2708 Cranberry Square		ress 1200 Tygart Drive
Morgantown, WV 26508			Grafton, WV 26354
8)	Oil and Gas Inspector to be notified Name Kenneth Greynolds		tractor stal Drilling East, LLC
	Address 613 Broad Run Road	Address	130 Meadows Ridge Road
	Jane Lew, WV 26378		Mt. Morris, PA 15349
	SEE EXHIBIT NOS. 1 and 2	manner of plugging t	this well is as follows:
		manner of plugging t	this well is as follows:
		manner of plugging t	Received
(0) Jot			Received

ICG TYGART, LLC API 47- 091- 00495 WELL J-1218 WELL PLUGGING (SOLID PLUG METHOD)

BACKGROUND INFORMATION

From well records provided by the WV DEP- Office of Oil and Gas, it appears that the above referenced well was drilled and completed in 1985. The IV-35 indicates that 1129.65 feet of 8 5/8" casing was set and cemented with 275 sacks of cement. This amount of cement should have circulated to the surface with a 40% excess.

The well record also indicates that 5358.50 feet of 4 ½ " casing was set with 550 sacks of cement. Since, so much cement was used and hydrostatic pressure would have been a concern, it is reasonable to assume that a lighter weight cement than Class A Portland was used. It was, and still is common to use cement with yields above 2.00 cubic feet per sack to cement production strings set to this depth. It then follows that the top of cement (TOC) around the 4 ½" casing is probably above the 8 5/8" casing seat. Therefore, when you free-point or bond log the 4 ½" casing, the subsequent 4 ½" casing cut will probably be above the 8 5/8" casing seat. This could be problematic and OO&G wants to make you aware of this possibility.

If the above scenario becomes evident and changes to the plugging procedure are needed, notify Kenneth Greynolds, Oil and Gas Inspector by phone at 304-206-6613.

Jeff McLaughlin, 04/11/2014

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WV DEP, Office of Oil and Gas

EXHIBIT NO. 2

CLEANOUT/PLUGGING PLAN

- Day 1 Move to site, rig up, mix mud, drill rathole.
- Day 2 Finish drilling rathole, start picking up 2 3/8" drill pipe and cleanout well with a 3 3/4" bit to total depth (T.D.).
- Day 3 Continue to pick up 2 3/8" drill pipe and cleanout to T.D. Trip out of the hole (T.O.H) with 2 3/8" drill pipe.
- Day 4 Run cement bond log on 4 ½" casing, (calculations reached from the cement information taken from the report indicate the estimated top of the cement on the outside of the 4 ½" is 3,191'), perforate/cut 4 ½" casing every 100' from 5,137' to 3,291'. Total shots needed 120.
- Day 5 Trip in hole (T.I.H) with 2 3/8" drill pipe to T.D. Cement hole from 5,239' back to 3,191' with 160 sacks of Class A Cement with a gas blocker additive. Circulate hole, condition mud, T.O.H.
 - Day 6 T.I.H with 3 34" bit to tag top of cement plug. T.O.H, T.I.H with 4 1/2" pressure pipe cutter, cut 4 1/2" casing just above top of bonded casing at 3,185". Lay down 2 3/8" drill pipe. TOC OF 41/2 WILL PROBABLY BE" ABOUT STREET CASING SEAT.
 - Day 7 Continue to lay down 2 3/8" drill pipe. Rig up 4 ½" casing spear. Hook to 4 ½" casing at the surface, release slips from wellhead and attempt work 4 ½" casing free to
 3.185". Lay down 4 ½" casing.
 - Day 8 Rig up 7 7/8" bit. Pick up drill collars and drill pipe, start cleaning hole to top of remaining 4 ½" casing at 3,185.
 - Day 9 Continue to clean hole with 7 7/8" bit to top of remaining 4 ½" casing at 3,185. Circulate hole, T.O.H with 7 7/8" bit. T.I.H with open ended 3 ½" drill pipe.
 - Day 10 Cement hole from 3,191' to within 50' of bottom of 8 5/8" casing at 1,031' with 1,000 gallons of mud flush and 500 sacks of Class A cement with 4% gel. Circulate hole and condition mud. T.O.H Log hole (Caliper, Natural Gamma, Directional and Bond logs). Calculations reached from the cement information taken from the report indicates that the 8 5/8" casing was cemented to surface.
 - Day 11 T.I.H with 8 5/8" pressure pipe cutter. Cut 8 5/8" casing every 100' from 891' to 381' (6 cuts total). T.O.H with 8 5/8" cutter. T.I.H with 8 5/8" section mill. Section mill 30' window in 8 5/8" casing through coal seam.
 - Day 12 Continue to section mill 8 5/8" casing through coal seam.

 MAR 2 4 2014
 - Day 13 Finish section milling 8 5/8" casing. T.O.H with 8 5/8" section mill. T.I.H with 7 7/8" bit.
 - Day 14 Clean hole with 7 7/8" bit to top of cement plug at 1,031". Circufate hole at rental Protection 1,031". T.O.H with 7 7/8" bit. Run caliper log to verify window and cuts in 8 5/8" casing. Lay down drill collars and fishing tools. Prepare to cement hole to surface. 04/11/2014

EXHIBIT NO. 2

CLEANOUT/PLUGGING PLAN

• Day 15 – Cement hole from 1,031' to surface using 180 sacks of Class A cement with 4% gel and 120 sacks of Thixatropic cement with green dye. Clean out mud tank. Rig down equipment and prepare to move rig to next site.

Received

MAR 2 4 2014

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".

Received

MAR 2 4 2014

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IV-3		
Rev	8-81)	

/26/85 DIVISION OPPRETERS J-1218 Foreman Bepariment of Mines 0495

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Gil und Gas Bivision

091 _ API No.

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

COCATION: Elevation: 1705 Watershed_	Swamp Run				
District: Knottsville County Tay	lor	Quadrangle	Thornto	n	
		•			
COMPANY J&J Enterprises, Inc.				Cement	
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Caşing	Used in	Left	fill up	
DESIGNATED AGENT Richard Reddecliff	Tubing	Drilling	in Well		
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Size				
SURFACE OWNER Fred Foreman	20-16 Cond.				
ADDRESS Rt. 1, Grafton, WV 26354	13-10"	31	0	0 sks.	
MINERAL RIGHTS OWNER Same as surface	9 5/8	1			
ADBRESS	8 5/8	1129 65	1129.65	275 sks.	C
OTT, AND GAS INSPECTOR FOR THIS WORK Donald		1 1123.03	11111111		
Ellis ADDRESS Fairmont, WV 26554	7				
PERMIT ISSUED 5/22/85	5 1/2				
DRILLING COMMENCED 6/18/85	4 1/2	5358.5	0 5358.50	550 sks.	1
DRILLING COMPLETED 6/25/85	3				į
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2		ļ		-
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners				
REWORKING. VERBAL PERMISSION OBTAINED	used				
CAN	<u></u>				~
GEOLOGICAL TARGET FORMATION Haverty			oth	feet	
Depth of completed well 5935 feet	Rotary	Cabl	e Tools_		
Water strata depth: Fresh 50 feet;	Salt	o feet			
Coal seam depths: None	_ Is coal	l being mir	ned in the	e area? No	?
OPEN FLOW DATA					
Producing formation 3rd Elk	Pa	av zone dej	oth 5	209-13 feet	:
Gas: Initial open flow Mcf/d	Oil: I	nitial oper	n flow	Bb1/d	
Combined Final open flow 582 Mcf/d					
Time of open flow between ini					
Static rock pressure 1200 psig(surfa					
(If applicable due to multiple completion	Spec	echley	3426-1 	²⁹ 04/11/20)14
Second producing formation Riley, Ball					
Gas: Initial open flow Mcf/d					
Final open flow Mcf/d	OII: F	mar obeu	T.TOM	RDT\(1
Time of open flow between in			_ •		

PROVIDED BY

(REVERSE)

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

3rd ELk: Perforations: '5209-T3' (16 holes)
Fracturing: 1350 sks. 20740 sand: 514 Bbls. flux.

Riley: Perforations: 4181-86 (16 holes)
Fracturing: 350 sks. 20/40 sand: 383 Bbls. fluid.

Balltown: Perforations: 3426-29 (12 holes)

Fracturing: 500 gal. acid: 365 Bbls. fluid. . . .

Speechley: Perforations: 3230-36 (16 holes)
Fracturing: 500 sks. 20/40 sand: 500 gal. acid: 523 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS

 $t=60 + (0.0075 \times 53.59) + 459.7 = 560 \times \frac{53.35 \times 560}{29876} = 0.000033 \text{ Pf=1200 x 2.72}$

 $(0.000033)(0.593)(4222)(0.9)_{=1200 \times 2.72} = 1200 \times 1.07$

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh
PORPHION COLOR HARD OR SOFT	TOP TENT	203341 52	and salt water, coal, oil and gas
Soil & Clay	0	17	Gas ck @ 1687 No show
Sand, sandy shale & red rock	17	95	Gas Ck @ 1067 NO Show
Sand, sandy shale & red rock	95	285	Gas ck @ 1815 No show
Sandy shale, & red rock	285	375	
Sand & sandy shale	375	480	Gas ck @ 2605 No show Trans.
Gray sand & shale	480	630	7*"
Shale & sand	630	805	Gas ck @ 3342 No show
Sand & shale	805	950	
Black shale & sand	950	1075	Gas ck @ 3565 No show
Shale, red rock & sand	1075	1300	
Sandy shale	1300	2040	Gas ck @ 4230 No show
Shale & sand	2040	3230	
Speechley	3230	3236	Gas ck @ 4451 No show
Sandy shale	3236	3426	
Balltown	3426	3429	Gas ck @ 5589 No show
Sandy shale	3429	4181	
RIley	4181	4186	Gas ck @ Drill collars No show
Sandy shale	4186	5209	
3rd Elk	5209 5213	5213 5935	•
Sandy shale	5213		<u>l</u>
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(Attach separate sheets as necessary)

J&J Enterprises, 7/26/85 Date:

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."

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

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(0.000033) (0.593) (4222) (0.9) = $1200 \times 2.72 \stackrel{0.07}{\sim} 1200 \times 1.07$

Pf= 1284 psi

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ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET In	REMARKS cluding indication of all fres nd salt water, coal, oil and ga
Soil & Clay Sand, sandy shale & red rock Sand, sandy shale & red rock Sand, sandy shale & red rock Sand & sandy shale Gray sand & shale Gray sand & shale Shale & sand Sand & shale Black shale & sand Shale, red rock & sand Shale, red rock & sand Sandy shale Shale & sand Speechley Sandy shale Balltown Sandy shale RIley Sandy shale 3rd Elk Sandy shale	0 17 95 285 375 480 630 805 950 1075 1300 2040 3230 3236 3426 3429 4181 4186 5209 5213	17 95 285 375 480 630 805 950 1075 1300 2040 3230 3236 3426 3429 4181 4186 5209 5213	Gas ck @ 1687 No show Gas ck @ 1815 No show Gas ck @ 2605 No show Gas ck @ 3342 No show Gas ck @ 3565 No show Gas ck @ 4230 No show Gas ck @ 4451 No show Gas ck @ 5589 No show Gas ck @ Drill collars No show
Sandy shale	5213	5935 T.D.	-

(Attach separate sheets as necessary)

Well Operator Received

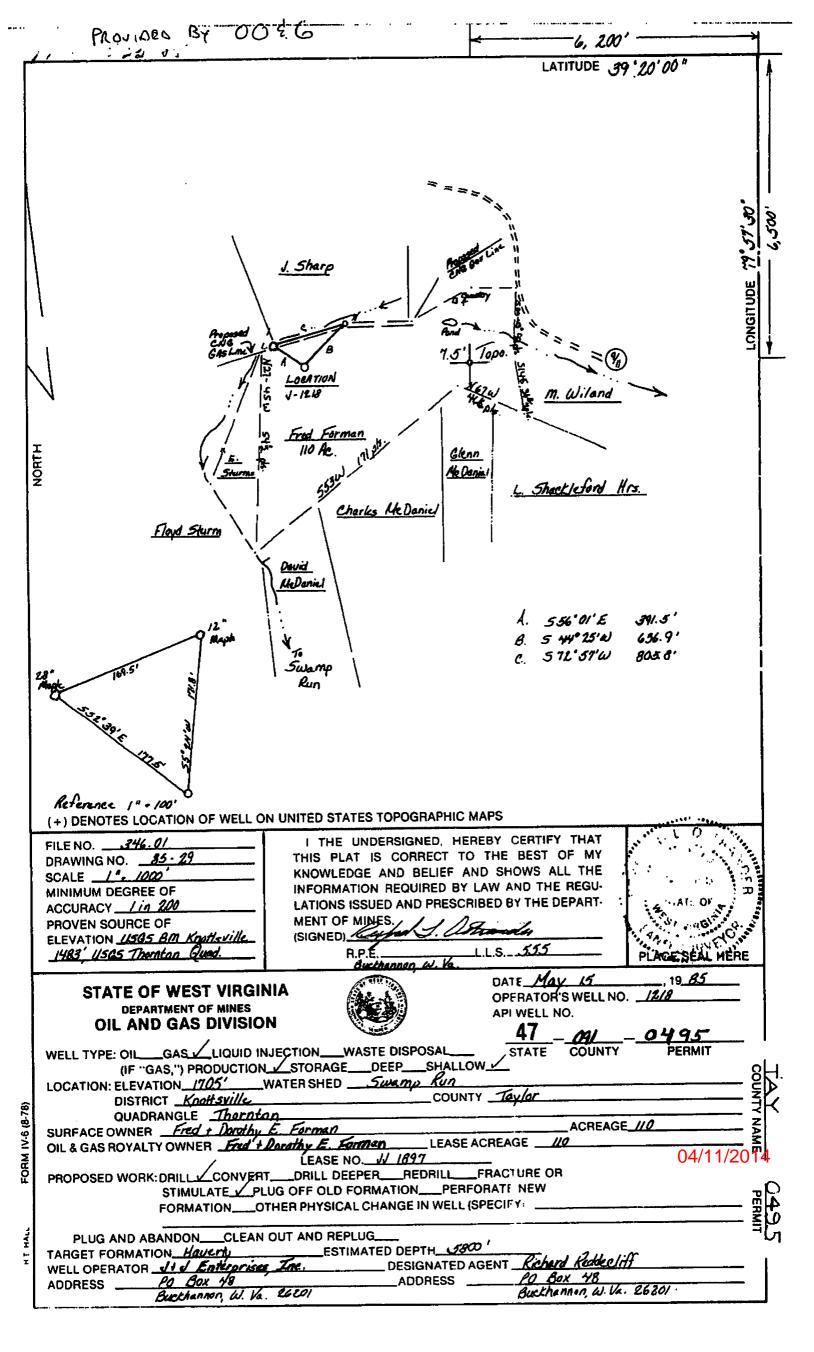
By:

Nobert Dahlin-Geologist

MAR 2 4 2014

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WW-4A Revised 6-07

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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 -

(a) Name	Fred & Dorothy E. Forman	W	Name	CoalQuest Development, LLC
Address	441 West Main Street		Address	2708 Cranberry Square
	Grafton, West Virginia 26354			Morgantown, West Virginia 26508
(b) Name			(b) Coal O	wner(s) with Declaration
Address			Name	
			Address	<u> </u>
(c) Name			Name	-
Address			Address	
6) Inspector	Kenneth Greynolds		(c) Coal Le	essee with Declaration
Address	613 Broad Run Road		Name	
11001000	Jane Lew, West Virginia 26	378	Address	
Telephone	(304) 206-6613		- 2019/10/20	
Totophone			_	
Protection the Applic	ying documents for a permit to	plug and abandon a v location described or mailed by registered	well with the Chief of the attached Applica or certified mail or d	Il operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental ation and depicted on the attached Form WW-6. Copies of this Notice, delivered by hand to the person(s) named above (or by publication in
De	Cer.			
Lio	Ame	Well Operator	ICG Tygart Valley, L	
	NR 24 CU	By:	Charles E. Duckwor	in (Mg 2)
	VH.,	Its:	Designated Agent	
	oil and Gas Protection	Address	2708 Cranberry Squ	
			Morgantown, West	Virginia 26508
	Office of Conmenia	en 1 1		
	Office of Conmentarian	Telephone	(304) 594-1616	
mo	Office of Oil and Gas Office of Oil and Gas	Telephone		
Subscribed and	sworn/before me this			Official Soul Notary Public Softery Public West Virginia
Subscribed and	d sworn before me this	da	(304) 594-1616	Official Soal Notary Public Notary Publice of West Virginia Thomas Gregory Nair
Subscribed and	d sworn before me this	da	(304) 594-1616	Official Soul Notary Public Softery Public West Virginia

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 depprivacyoffier@wv.gov.

O4/11/2014

SURFACE OWNER WAIVER

9100495 P

Operator's Well Number

J-1218

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

> Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support

your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;

3) Damage would occur to publicly owned lands or resources;

4) The proposed well work fails to protect fresh water sources or supplies;

5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation ... ".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice And Abandon on Forms WW-4A and WW-4B and a survey plat.

and Application For A Permit To Plug And Abandon on Po		
I further state that I have no objection to the p	lanned work	described in these materials, and I have no
objection to a permit being issued on those materials. FOR EXECUTION BY A NATURAL PERSON		FOR EXECUTION BY A CORPORATION, MAH 2 4 2014
Date 3/18/19	/ N	2 4 2017
Signature Date	✓ Name _ By	Office of Oil and Gas WV Deet, of Environmental Protection
Signature	Its _	Date

Signature

SURFACE OWNER WAIVER

Operator's Well Number

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J-	1	2	1	C

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WV Dept. of Environmental Protection

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. FOR EVECTIFICN BY A CORPORATION

FOR EXECUTION BY A NATURAL PERSON	N .	FOR EXECUTE	IN DI A COM CIMILION,
Front Date Signature	e <u>03/19/14</u> Name By Its		Date
		Signature	04/11/2014

SURFACE OWNER WAIVER

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Charleston, WV 25304
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Office of Oil and Gas
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objection to a permit being issued on those	motoriale	• • • • • • • • • • • • • • • • • • • •
FOR EXECUTION BY A NATURAL PER		FOR EXECUTION BY A CORPORATION,
ETC.		
Karen & Dellas	Date 3- 19-14 Name	
Signatura	By	

Signature By Its Date

04/**51/2**014

Signature

POWER OF ATTORNEY

COALQUEST DEVELOPMENT LLC TO GREG NAIR

Dated: January 1, 2014

Expires: December 31, 2014

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 James E. Florczak, its duly authorized Vice President and Treasurer, 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, 2014, 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 and attested as of the day and year first above written, by the undersigned, James E. Florczak, duly authorized Vice President and Treasurer of the Company, and Jolene J. Mermis, duly elected Assistant Secretary of the Company.

Attest:

COALQUEST DEVELOPMENT LLC

olene J. Mernis James E. Florczak Assistant Secretary of the Company

Vice President and Treasurer

Received

MAR 2 4 2014 04/11/2014

API No.	47-91-00495 P		
Farm Name	Foreman		
Well No.	J-1218		

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

The undersigned coal operate	X / owner/ lessee/ of the coal	under this well location
has examined this proposed plugging	ork order. The undersigned has no objection to	the work proposed to be
[1] 이 사용 이 경험을 가게 되었다. 이 기업에 다른 경기가 되었다. 그 사용 전에 대한 경험 경험 기업	ell operator has complied with all applicable re	quirements of the West
Virginia Code and the governing reg	tions.	
Date: 3 14 14	CoalQuest Development, LLC	\wedge
	By: Greg Nair	5/ -
	Its Power of Attorney	

Received

MAR 2 4 2014

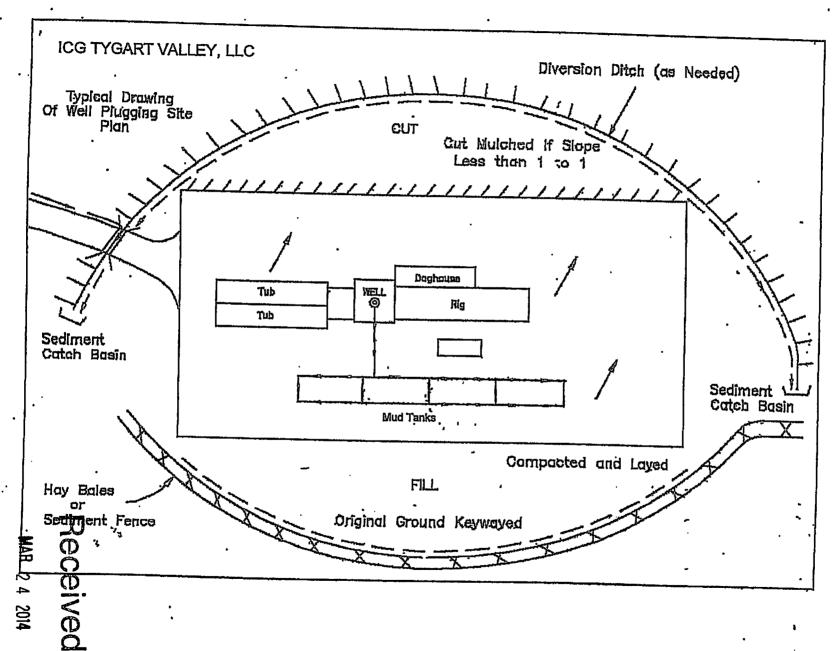
			9100495Pb
Page		of	
API Number 47 - 91	-	00495	
Operator's Well No J-1218			

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 ICG Tygart V	alley, LLC	OP Code	-
Watershed Swamp Run	Quadra	angle Thornton (638)	-
Elevation 1705	County Taylor	District Knottsville	
Description of anticipated Pit W	aste: N/A		
Will a synthetic liner be used in	the pit? N/A		
Proposed Disposal Method For Land	Freated Pit Wastes: Application		
	rground Injection (UIC Permit Number_)	i
	e (at API Number)	
	ite Dispposal (Supply form WW-9 for dis (Explain Tanks - See attached letter	sposal location)	
Proposed Work For Which Pit V	Vill Be Used:		
Drilli		Swabbing	
Work	over X P	Plugging	
Other	(Explain_		
on August 1, 2005, by the Office provisions of the permit are enf law or regulation can lead to enf I certify under penalty application form and all attach obtaining the information, I be penalties for submitting false information of the company Official Signature	e of Oil and Gas of the West Virginia Dep orceable by law. Violations of any term orcement action. of law that I have personally examined ments thereto and that, based on my in lieve that the information is true, accura- ormation, including the possibility of fine	of the GENERAL WATER POLLUTION PERMIT partment of Environmental Protection. I understand to or condition of the general permit and/or other appear and am familiar with the information submitted inquiry of those individuals immediately responsible to a complete. I am aware that there are sign to or imprisonment.	that the plicable on this ible for nificant
Company Official (Typed Name	Charles E. Duckworth	Hecely	Cu
Company Official Title Design	nated Agent	MAR 2 4 20)14
Subscribed and sworn before me	e this 14 day of March	, 20 14 Office of Oil and www Dept. of Environment	Gas lal Protect
Thomas Duy		Notory Public Official Seal Notary Public	
My commission expires De Le	nsu 22, 2019	State of West Virginia Thomas Gregory Nair 329 Webster Avenue, Morganiown, Wy 25501	1/201

	1	EGEND	
Property Boundary		Diversion (1:1111)	
Road = = = = =	=====	Spring O	
Existing Fence — X — X — X — Planned Fence — / — / — / —		Wet Spot	
		Drain Pipe with size in inches	— ® —
Stream / 1.7	7	Waterway C+ C+	$\Rightarrow \Leftrightarrow \Leftrightarrow \Leftrightarrow$
Open Ditch		Cross Drain 7/1/1/1	TITITITE
Rock 688888		Artificial Filter Strip XXXX	XXXXXXXXXXXX
North N		Pit: cut walls	-1.44
Buildings		Pit: compacted fill walls	William Control
Water wells		Area for Land Application of Pi	it Waste
Drill site		6=3	
Proposed Revegetation Treatn	nent: Acres Disturbed 1.0	0 Prevegetation pH	
A series of the	Tons/acre or to correct to pH		
	500		
Fertilizer (10-20-20 c	or equivalent)lbs/a	ncre (500 lbs minimum)	
MulchHay Ba	alesTons/ac	re	
	Seed	Mixtures	
Area		Are	
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,p	oit and proposed area for land applied 7.5' topographic sheet.	ication.	
See attached			
Plan Approved by:	emith Iraywes	h	
Comments: DECL	AIM AS SOON A	is reasiply poss,	Received
Title: ONL + 6.05	INSPACE OF	Date: 3-21-10	MAR 2 4 2014
Field Reviewed?) Yes (*	_) No	Office of Oil and Gas





ICG TYGART VALLEY, LLC

2708 Cranberry Square, Morgantown, West Virginia 26508

March 12, 2014

WV Department of Environmental Protection Office of Oil and Gas 601 – 57th 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.

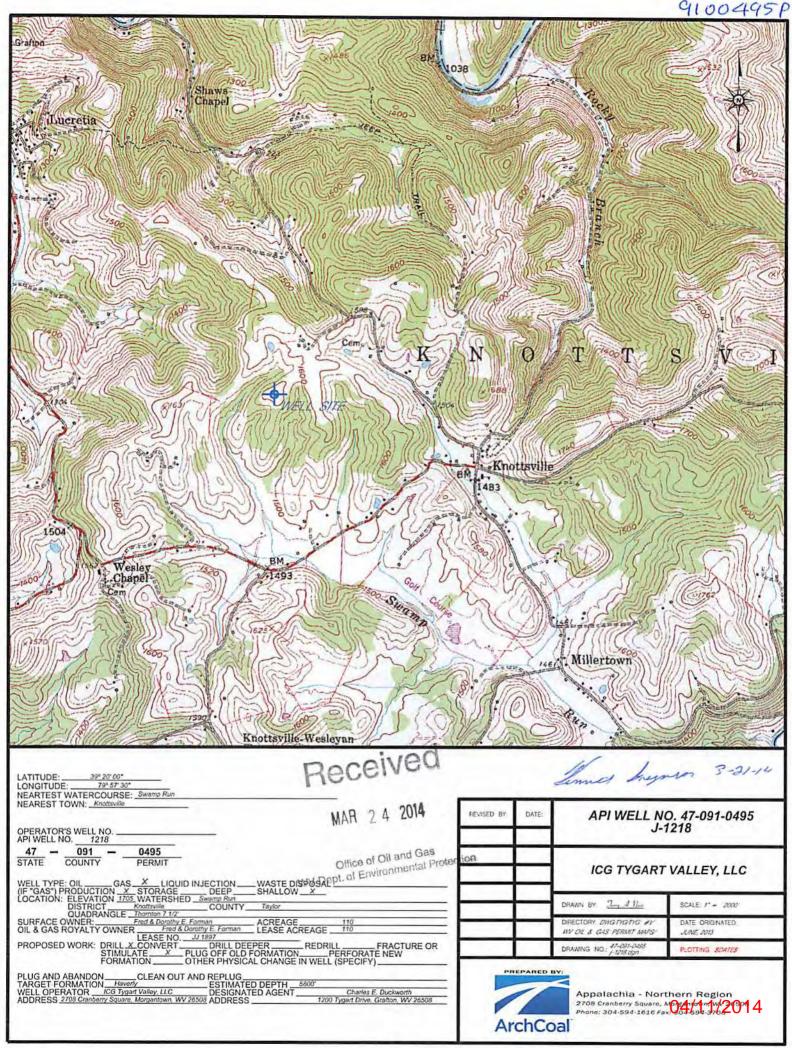
Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP impoundment facilities O-2017-06.

Sincerely,

Charles E. Duckworth Designated Agent

Received

MAR 2 4 2014



WW-7 8-30-06



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

API: 47-091-0495		WELL NO.: J-1	218
FARM NAME: Fred Forma			
RESPONSIBLE PARTY NAM	ME: ICG Tyga	rt Valley, LLC	
COUNTY: Taylor		DISTRICT: Knotts	sville 🔽
QUADRANGLE: Thornto			
SURFACE OWNER: ICG T			
ROYALTY OWNER: Fred 8	& Dorothy Form	an	
UTM GPS NORTHING: 435			
UTM GPS EASTING: 587900	6.919	GPS ELEVATION	ON:
preparing a new well location p above well. The Office of Oil at the following requirements: 1. Datum: NAD 1983, height above mean s 2. Accuracy to Datum 3. Data Collection Met	nd Gas will not acc Zone: 17 North, Co sea level (MSL) – n – 3.05 meters thod:	ept GPS coordinates oordinate Units: mete neters.	that do not meet
Survey grade GPS _ X _: Po	ost Processed Differ eal-Time Differenti		MAR 2 4 2014
Mapping Grade GPS:		23.00	min 2 4 2014
	Real-Time Differe	ential	Office of Oil and Gas WV Dept. of Environmental Protection
4. Letter size copy of I the undersigned, hereby certif belief and shows all the information prescribed by the Office of Oil	y this data is correct ation required by la	t to the best of my ki	nowledge and
Aug ()-	Attorney-		March 12, 2014
Cionatura	7	itle	Date