



west virginia department of environmental protection

Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Monday, January 30, 2017  
WELL WORK PERMIT  
Vertical / Plugging

ICG TYGART VALLEY, LLC (A)  
100 TYGART DR

GRAFTON, WV 26354

Re: Permit approval for CNGP 1952  
47-091-00517-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

Operator's Well Number: CNGP 1952  
Farm Name: JOHNSON, HOLLY & MAXINE  
U.S. WELL NUMBER: 47-091-00517-00-00  
Vertical / Plugging  
Date Issued: 1/30/2017

Promoting a healthy environment.

02/03/2017

## 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.

ISSUE  
1/27/17

1) Date December 12, 2016  
2) Operator's  
Well No. CNGD-WN-1952  
3) API Well No. 47-91 - 00517

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 \_\_\_/ Liquid injection \_\_\_/ Waste disposal \_\_\_/  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_/ Shallow X

5) Location: Elevation 1568.50 Watershed Swamp Run  
District Knottsville County Taylor Quadrangle Thornton (638)

6) Well Operator ICG Tygart Valley, LLC 7) Designated Agent Charles E. Duckworth  
Address 100 Tygart Drive Address 100 Tygart Drive  
Grafton, WV 26354 Grafton, WV 26354

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Kenneth Greynolds Name Coastal Drilling East, LLC  
Address 613 Broad Run Road Address 130 Meadows Ridge Road  
Jane Lew, WV 26378 Mt. Morris, PA 15349

10) Work Order: The work order for the manner of plugging this well is as follows:  
PLUGGING FOR COAL MINE - THROUGH.

See Exhibit Nos. 1 and 2

EXHIBIT 1 USES MSHA 101C EXEMPTION.

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

Work order approved by inspector *Kenneth Greynolds* Date 1/4/17

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EXHIBIT NO. 1

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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".

*ICG Tygart Valley, LLC* 517  
 Leer Mine (MSHA ID# 46-09192)  
 MSHA 101-C Docket No. M-2012-065-C

Approximate coal seam top ~ 892  
 Approximate coal seam bottom ~ 897

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"A Shaft Drillers International Company"

EXHIBIT No. 2

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

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

910057P

05/26/2016

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 ½" 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 ½" casing from the free point determined by the bond log.
- Clean out wellbore to top of remaining 4 ½" 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.

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- 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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WR-35

API # 47- 91 - 00517W

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: Johnson, Holly & Maxine Operator Well No.: CNGP 1952W

LOCATION: Elevation: 1568.50' Quadrangle: Thornton 7.5'

District: Knottsville County: Taylor  
Latitude: 39 Deg. 20' 00"  
Longitude: 79 Deg. 57' 30"

Company: CNG PRODUCING CO., A DEL. CORP.  
1450 POYDRAS ST.  
NEW ORLEANS, LA 70112

Agent: RODNEY J. BIGGS

Inspector:  
Permit Issued:  
Well work Commenced: 04-14-94  
Well work Completed: 04-25-94  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_  
Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
Re-Ran			
1 1/2" Tbg.	5213'	5213'	

OPEN FLOW DATA

Producing formation Keener Pay zone depth (ft) 1513 - 1531'  
Gas: Initial open flow 750 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 1.4 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 455 psig (surface pressure) after 12 Hours  
\* Commingle with existing production.  
Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) 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.

For: CNG PRODUCING CO. A DELAWARE CORP.

By: Rodney J. Biggs, District Manager - Production  
Date: 05-17-94

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PERFORATED RETRFR. 25 holes, 1513 1531

WATER FRAC:

Total Fluid	430 bbls.	25# gel	
Total Sand	5,000#	80/100	30,000# 20/40
Total Acid	750 gal.	15% HCl	
Ave. Rate	21 BPM		
Ave. Press.	1650#		
Br. Form.	2800	ISIP	1230
Frac Grade	1.23		

TRIP WELL BACK IN LINE 04-25-94

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6.82.01

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Carvin R. Johnson  
313 Wesley Chapel Rd  
Greene, WV 26354

OVERLAP  
DUE TO  
MAY 4 10 11  
INSTRUMENT NO  
BY INSTRUMENT NO

9100517P



IV-35  
(Rev 8-81)

**RECEIVED**  
**OCT - 5 1985**  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date September 27, 1985  
Operator's \_\_\_\_\_  
Well No. CNGD WN 1952  
Farm Rogers Unit  
API No. 47 - 091 - 0517

State of West Virginia  
Department of Mines  
Oil and Gas Division

WELL OPERATOR'S REPORT  
OF

091 - 0517

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas x / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production x / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow \_\_\_ /)

LOCATION: Elevation: 1568.5 Watershed Swamp Run  
District: Knottsville County Taylor Quadrangle Thornton

COMPANY CNG Development Company  
ADDRESS P. O. Box 15746  
Pittsburgh, PA 15244  
DESIGNATED AGENT Gary A. Nicholas  
ADDRESS Rt. 2 Box 698  
Bridgeport, WV 26330  
SURFACE OWNER Holly A & Maxine Johnson  
ADDRESS Rt. 1  
Grafton, WV 26354  
MINERAL RIGHTS OWNER Holly A & Maxine Johnson  
ADDRESS Rt. 1  
Grafton, WV 26354  
OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
Donald Ellis ADDRESS 2604 Crab Apple Lane  
Fairmont, WV 26554  
PERMIT ISSUED Aug. 22, 1985  
DRILLING COMMENCED Sept. 5, 1985  
DRILLING COMPLETED Sept. 12, 1985  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1007	1007	To Surf.
7			
5 1/2			
4 1/2	5340	5340	515 sks
3			
2			
Liners used			

TAYLOR COUNTY

GEOLOGICAL TARGET FORMATION Benson Depth 5435 feet  
Depth of completed well 5460 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 80 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: 130 - 177 248 - 277 603 - 608 680 - 685 Is coal being mined in the area? No.

OPEN FLOW DATA  
Producing formation 3rd Elk Benson Saltown Pay zone depth 2172-77 2545-47 4570-74 feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 2.1 M Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure 950 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

(Continue on reverse side)

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FORM IV-35  
(REVERSE)

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

Allegheny Perforated 3rd Elk 5172 - 77, 20 holes, .39" strip; Benson 4545 - 47, 4 holes; 4570 - 74, 9 holes, .39 S.F.; Riley 4184 - 93, 20 holes, .39 H.G.; Balltown 3422 - 27, 20 holes, .39 H.G.  
Halliburton Foam Frac - 3rd Elk - 50% Quality, Gel 20#/Mgal, Break 2700 psi, Break Rate 25 BPM,  
ISIP (w/water prejob, psi) 1900, Ave Tr. Pr. 3200 psi, Max. Tr. Pr. 3250 psi, Ave Foam Rate 20 BPM,  
35,000# 20/40 Sand, Max. Conc. 3#/gal, 500 BBL Total Fluid, 360 BBL SL Fluid, BHTP 4100 psi, N2 285,000 SCF.  
Benson - 70% Quality, Gel 20#/Mgal, Break 3200 psi, Break Rate 25 BPM, ISIP (w/water prejob, psi) 1900,  
Ave. Tr. Pr. 3500 psi, Max. Tr. Pr. 3600 psi, Ave Foam Rate 20 BPM, 35,000# 20/40 Sand, Max. Conc. 2-1/2 #/gal,  
500 BBL Total Fluid, 360 BBL SL Fluid, BHTP 3900 psi, N2 410,000 SCF.  
Riley - 75% Quality, Gel 20#/Mgal, Break 3550 psi, Break Rate 25 BPM, ISIP (w/water prejob, psi) 1700,  
Ave. Tr. Pr. 2900 psi, Max. Tr. Pr. 3050 psi, Ave Foam Rate 16 BPM, 60,000# 20/40 Sand, Max. Conc. 3 #/gal,  
750 BBL Total Fluid, 544 BBL SL Fluid, BHTP 3500 psi, N2 600,000 SCF.  
Balltown - 75% Quality, Gel 20 #/Mgal, Break 3500 psi, Break Rate 22 BPM, ISIP (w.water prejob, psi) 1600,  
Ave. Tr. Pr. 2850 psi, Max Tr. Pr. 2900 psi, Ave Foam Rate 16 BPM, 35,000# 20/40 Sand, Max Conc 3#/gal,  
520 BBL Total Fluid, 370 BBL SL Fluid, ISIP (w/water postjob, psi) 1850, 5 min (w/water postjob, psi) 1750,  
BHTP 3100 psi, N2 400,000 SCF.

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	Hole Damp @ 50'
Soil & Shale			10	150	1/2" stream @ 90'
Coal			150	152	1/2" stream @ 790'
Sand & Shale			152	245	
Coal			245	247	Coal - 150 - 152
Sand & Shale			247	505	245 - 247
Coal			505	508	505 - 508
Sand & Shale			508	680	680 - 685
Coal			680	685	
Sand & Shale			685	1450	
Lime & Injun			1450	1630	
Sand & Shale			1630	4090	
Riley			4090	4150	
Sand & Shale			4150	4530	
Benson			4530	4540	
Sand & Shale			4540	4685	
Elk			4685	4775	
Sand & Shale			4775	4835	
Elk			4835	4950	
Sand & Shale			4950	5155	
Elk			5155	5190	
Sand & Shale			5190	5462	
<b>LOG TOPS</b>					
B. Lime/B. Injun			1450	1630	
Gantz/Gantz A			1898	1999	
50'			1965	2044	
Gordon Stray/Gordon			2138	2236	
4th/4th A			2252	2390	
5th			2402	2554	
Speechley			3142	3188	
Balltown			3308	3432	
Bradford			3660	3750	
Riley			4094	4200	
Benson			4526	4550	
1st Elk			4756	4818	
2nd Elk			4912	5122	
3rd Elk			5152	5214	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY  
Well Operator

By: *[Signature]*

Date: September 21, 1985

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WV Department of  
Environmental Protection

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 coal, encountered in the drilling of a well."

02/03/2017

WW-4A  
Revised 6-07

1) Date: December 12, 2016  
2) Operator's Well Number  
CNGD-WN-1952  
3) API Well No.: 47 - 91 - 00517

**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 Calvin R. Johnson <i>✓ Waiver</i>	Name CoalQuest Development, LLC <i>Waiver</i>
Address 313 Wesley Chapel Road	Address 100 Tygart Drive
Grafton, West Virginia 26354	Grafton, West Virginia 26354
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector Kenneth Greynolds	(c) Coal Lessee with Declaration
Address 613 Broad Run Road	Name _____
Jane Lew, WV 26378	Address _____
Telephone (304) 206-6613	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

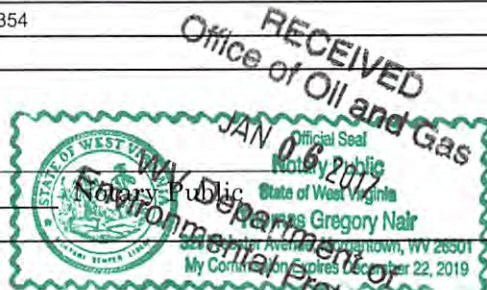
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 ICG Tygart Valley, LLC  
 By: Charles E. Duckworth *[Signature]*  
 Its: Designated Agent  
 Address 100 Tygart Drive  
 Grafton, West Virginia 26354  
 Telephone (304) 265-9704

Subscribed and sworn before me this 13 day of December 2016  
*[Signature]*  
 My Commission Expires December 22, 2019



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

02/03/2017

**SURFACE OWNER WAIVER**

2100517P

Operator's Well  
Number

CNGD-WN-1952

**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 57<sup>th</sup> 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 Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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 EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

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JAN 16 2017  
WV Department of  
Environmental Protection

Calvin R Johnson  
Signature

Date 12-16-16 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

Signature \_\_\_\_\_ Date 02/03/2017  
Date \_\_\_\_\_

9100517P



# ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

December 13, 2016

Calvin R. Johnson  
313 Wesley Chapel Road  
Grafton, West Virginia 26354

Re: Plugging Permit – API # 47-91-00517 – CNGD-WN-1952

Dear Mr. Johnson:

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 in the enclosed self-addressed stamped envelope.

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 [gnair@archcoal.com](mailto:gnair@archcoal.com).

Sincerely,

Greg Nair  
Manager Surface Mine Planning

Enclosures

CERTIFIED MAIL NO. 7015 3010 0001 7053 2249  
RETURN RECEIPT REQUESTED

RECEIVED  
Office of Oil and Gas  
JAN 06 2017  
WV Department of  
Environmental Protection

02/03/2017

API No. 47-91-00517  
 Farm Name Johnson, Holly & Maxine  
 Well No. CNGD-WN-1952

**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 than 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.

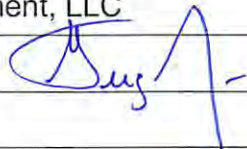
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, 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 operator X / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 12/13/14

CoalQuest Development, LLC  
 By: Greg Nair   
 Its Power of Attorney

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 Environmental Protection  
 02/03/2017

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 Valley, LLC OP Code \_\_\_\_\_

Watershed Swamp Run Quadrangle Thornton (638)

Elevation 1568.50 County Taylor District Knottsville

Description of anticipated Pit Waste: N/A

Will a synthetic liner be used in the pit? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Tanks - See attached letter)

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 fines or imprisonment.

Company Official Signature \_\_\_\_\_

Company Official (Typed Name) Charles E. Duckworth

Company Official Title Designated Agent

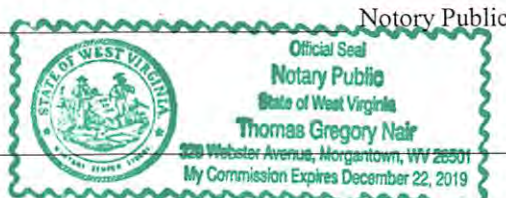
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Subscribed and sworn before me this 13 day of December, 2017

WV Department of  
Environmental Protection

Thomas Gregory Nair

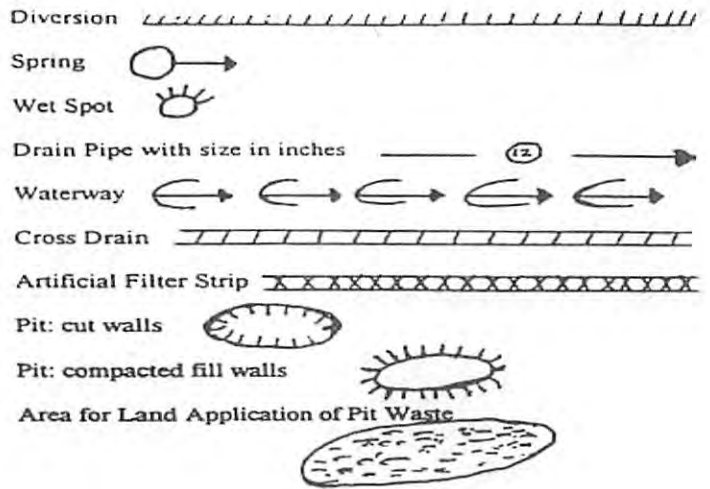
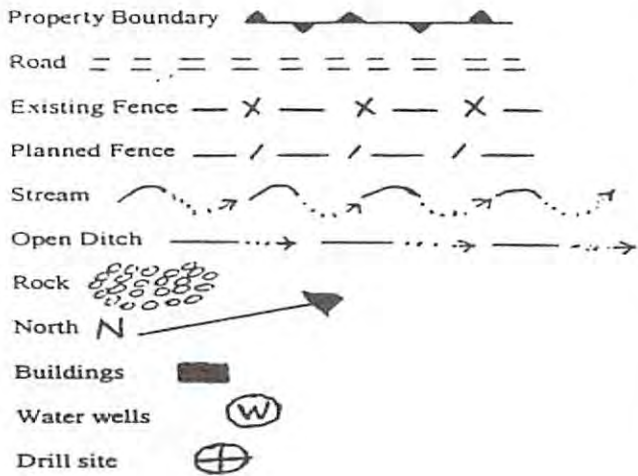
My commission expires December 22, 2019



02/03/2017



**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed 1.50/2.0 Prevegetation pH \_\_\_\_\_  
 Lime 3 Tons/acre or to correct to pH 6.5  
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)  
 Mulch Hay Bales Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II 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 application.

Photocopied section of involved 7.5' topographic sheet.

See attached

Plan Approved by: [Signature]

Comments: RECLAIM, SEED AND MULCH ASAP

Title: OIL & GAS INSPECTOR

Date: 1-5-17

Field Reviewed? ( ) Yes (  ) No

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9100578

WW-9 ATTACHMENT



# ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

December 12, 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.

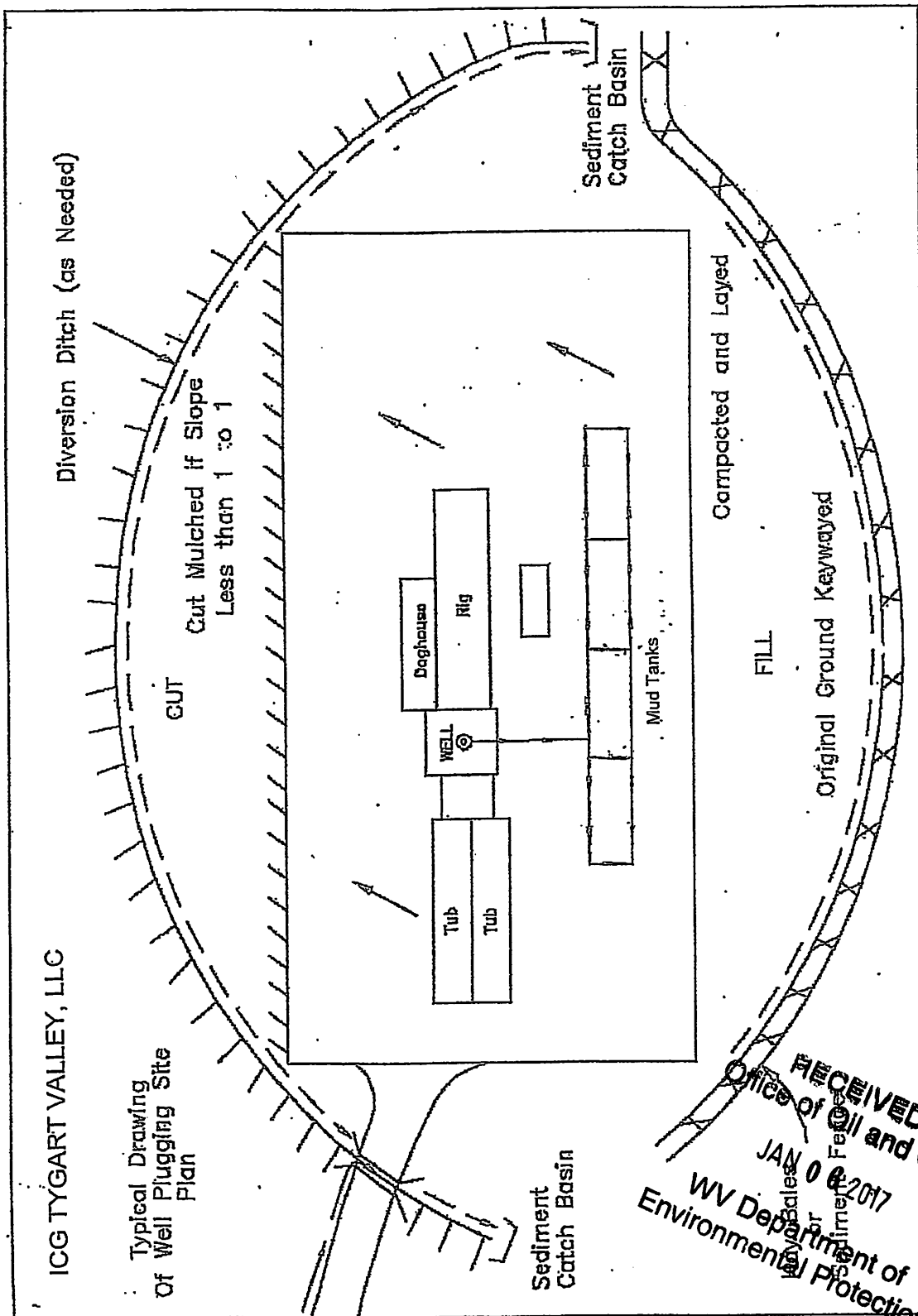
Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to DEP impoundment facilities O-2017-06 or to an approved facility that can handle the material.

Sincerely,

Charles E. Duckworth  
Designated Agent

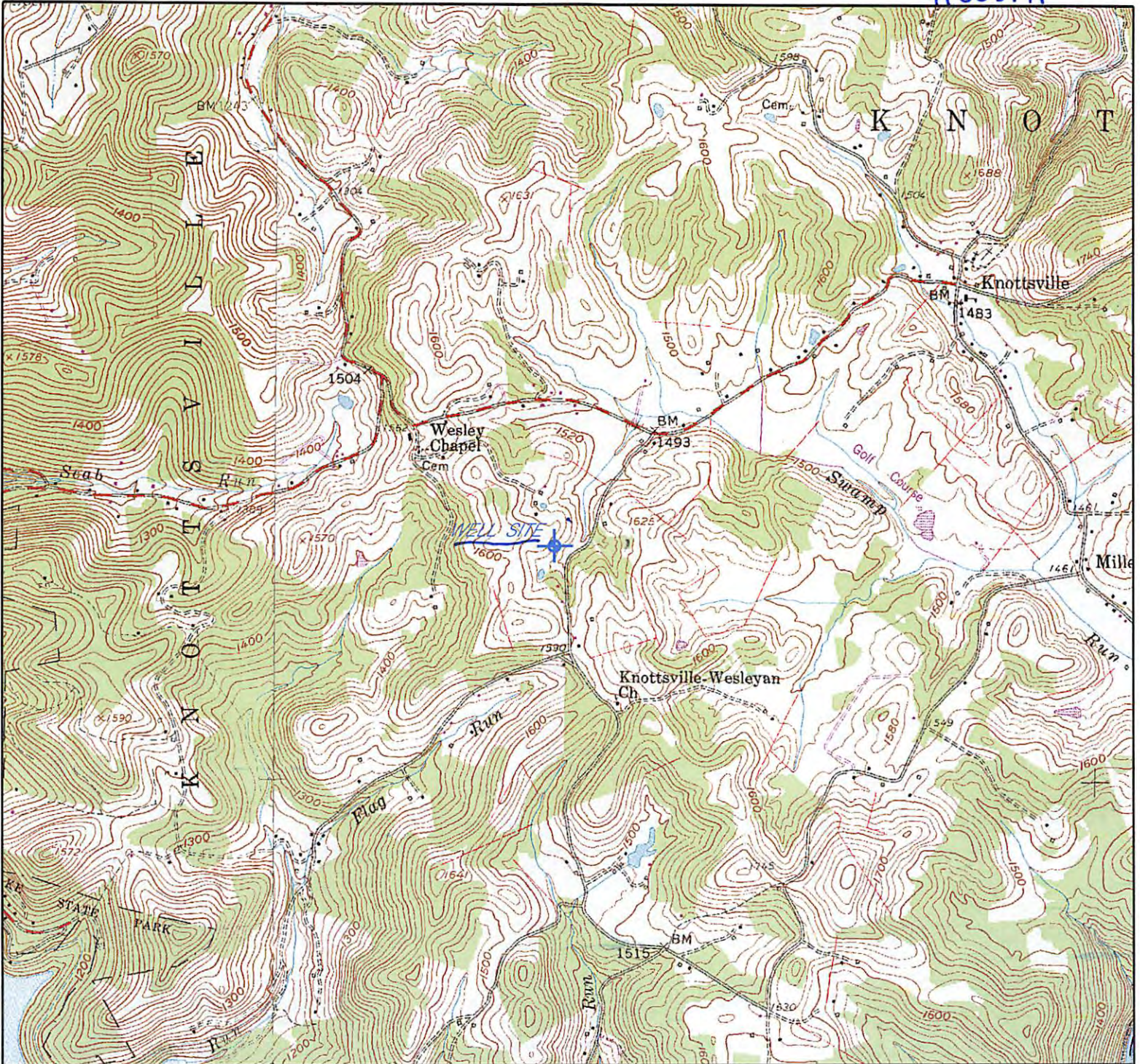
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9100517P



LATITUDE: 39° 18' 02"  
 LONGITUDE: 79° 59' 08"  
 NEAREST WATERCOURSE: Swamp Run  
 NEAREST TOWN: Knottsville

OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. CNGD WN-1952  
47 - 091 - 00517  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION  STORAGE DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1568.5 WATERSHED Swamp Run  
 DISTRICT Knottsville COUNTY Taylor

QUADRANGLE Thornton 7 1/2'  
 SURFACE OWNER: Holly A. & Maxine V. Johnson ACREAGE 62.10  
 OIL & GAS ROYALTY OWNER: Holly A. & Maxine V. Johnson LEASE ACREAGE 85  
 LEASE NO. DV-15344

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 Benson, Riley, 3rd Elk ESTIMATED DEPTH 5460'  
 WELL OPERATOR ICG Tygart Valley, LLC DESIGNATED AGENT Charles E. Duckworth  
 ADDRESS 100 Tygart Drive, Grafton, WV 26354 ADDRESS 100 Tygart Drive, Grafton, WV 26354

REVISED BY:	DATE:	API WELL NO. 47-091-00517 CNGD WN-1952
		RECEIVED Office of Oil and Gas ICG TYGART VALLEY, LLC JAN 9 6 2017
		DRAWN BY: <u>Jerry A. Van</u> SCALE: 1" = 400' DIRECTORY: <u>CNGD DIG #V</u> DATE ORIGINATED: <u>Apr 2017</u> WV OIL & GAS PERMITS MAPS Environmental Protection Department of
		DRAWING NO. <u>9100517P</u> PLOTTING <u>SCATES</u>

PREPARED BY:  
  
 Eastern Operations  
 100 Tygart Drive, Grafton, WV 26354  
 Phone: 304-265-9700 Fax: 304-265-9744  
**02/03/2017**

WW-7  
8-30-06



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

API: 47-091-000517 WELL NO.: CNGD-WN-1952

FARM NAME: Johnson, Holly & Maxine

RESPONSIBLE PARTY NAME: ICG Tygart Valley, LLC

COUNTY: Taylor DISTRICT: Knottsville

QUADRANGLE: Thornton

SURFACE OWNER: Calvin R. Johnson

ROYALTY OWNER: Calvin R. Johnson

UTM GPS NORTHING: 4350653.238

UTM GPS EASTING: 587476.728 GPS ELEVATION: 1556.92

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:

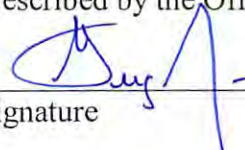
1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

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	Power of Attorney _____ Title	December 12, 2016 _____ Date
---	-------------------------------------	------------------------------------