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**west virginia** department of environmental protection

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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 03, 2015

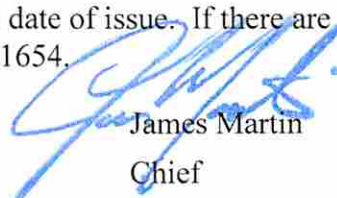
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9100168, 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 penalties 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: 0  
Farm Name: WOLFE, IRIS  
**API Well Number: 47-9100168**  
**Permit Type: Plugging**  
Date Issued: 03/03/2015

Promoting a healthy environment.

03/06/2015

## 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.

9100168P

WW-4B  
Rev. 2/01

1) Date February 12, 2015  
2) Operator's  
Well No. CNGP-6021  
3) API Well No. 47-91 - 00168

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 1667 Watershed Rocky Branch  
District Knottsville County Taylor Quadrangle Thornton (638)

6) Well Operator ICG Tygart Valley, LLC 7) Designated Agent Charles E. Duckworth  
Address 2708 Cranberry Square Address 1200 Tygart Drive  
Morgantown, WV 26508 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:

SEE PLUGGING PLAN

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

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EXHIBIT NO. 1  
1012

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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".

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EXHIBIT NO. 2

KLC 2-18-15

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 1/2" casing, (calculations reached from the cement information taken from the report indicate the estimated top of the cement on the outside of the 4 1/2" IS ABOVE THE 8 5/8" CASING POINT). CUT 4 1/2" CASING ABOVE THE TOC (TOP OF CEMENT) AND REMOVE FROM WELLBORE.
- Day 5 - Trip in hole (T.I.H) with 2 3/8" drill pipe to T.D. Cement hole from 4690' 2642' with 160 sacks of Class A Cement with a gas blocker additive. Circulate hole, condition mud, T.O.H.
- Day 6 - MAKE SURE 4 1/2" CASING IS REMOVED FROM 8 5/8" CASING POINT (AT 1100') TO SURFACE.
- Day 7 - Continue to lay down 2 3/8" drill pipe. Rig up 4 1/2" casing spear. Hook to 4 1/2" casing at the surface, release slips from wellhead and attempt work 4 1/2" casing free to 1100'. Lay down 4 1/2" casing. THIS STEP SHOULD ALREADY HAVE BEEN DONE.
- Day 8 - Rig up 7 7/8" bit. Pick up drill collars and drill pipe, start cleaning hole to top of remaining 4 1/2" casing at 1100'.
- Day 9 - Continue to clean hole with 7 7/8" bit to top of remaining 4 1/2" casing at 1100'. Circulate hole. T.O.H with 7 7/8" bit. T.I.H with open ended 3 1/2" drill pipe.
- Day 10 - Cement hole from 2642' 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.
- 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'. Circulate hole at 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.

\* RECALCULATE 5KS OF CEMENT.

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EXHIBIT NO. 2

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**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 Thixotropic cement with green dye. Clean out mud tank. Rig down equipment and prepare to move rig to next site.

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WR-39 RECEIVED  
Division of Environmental Protection

28-Mar-95  
API # 47- 91-00168 W

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Permitting  
Office of Oil & Gas

Farm name: WOLFE, IRIS

Operator Well No.: CNGP 6021

LOCATION: Elevation: 1,667.00 Quadrangle: THORNTON

District: KNOTTSVILLE County: TAYLOR  
Latitude: Feet South of Deg. Min. Sec.  
Longitude: Feet West of Deg. Min. Sec.

Company: CNG PRODUCING COMPANY  
ROUTE 2, BOX 698  
BRIDGEPORT, WV 26330-0698

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
No Change			
NO ADDITIONAL CASING RAN IN WELL			

Agent: RODNEY J. BIGGS

Inspector: PHILLIP TRACY  
Permit Issued: 03/28/95  
Well work Commenced: 04/19/95  
Well work Completed: 04/26/95  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary Cable Rig  
Total Depth (feet) 1770'-Bridge Plug  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? \_\_\_\_\_  
Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

Producing formation Keener Pay zone depth (ft) 1596-1606  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow N/A Bbl/d  
 Final open flow \* 531 MCF/d Final open flow N/A Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static rock Pressure 450 psig (surface pressure) after 24 Hours  
 \* Did not 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. 03/06/2015

For: CNG PRODUCING COMPANY

By: Rodney J. Biggs, Prcd. Manager, Appalachian Region  
Date: 05-08-95

TA 0168P

Set solid bridge plug @ 1770'

Perforated Keener Sand 1596-1606, 30 holes

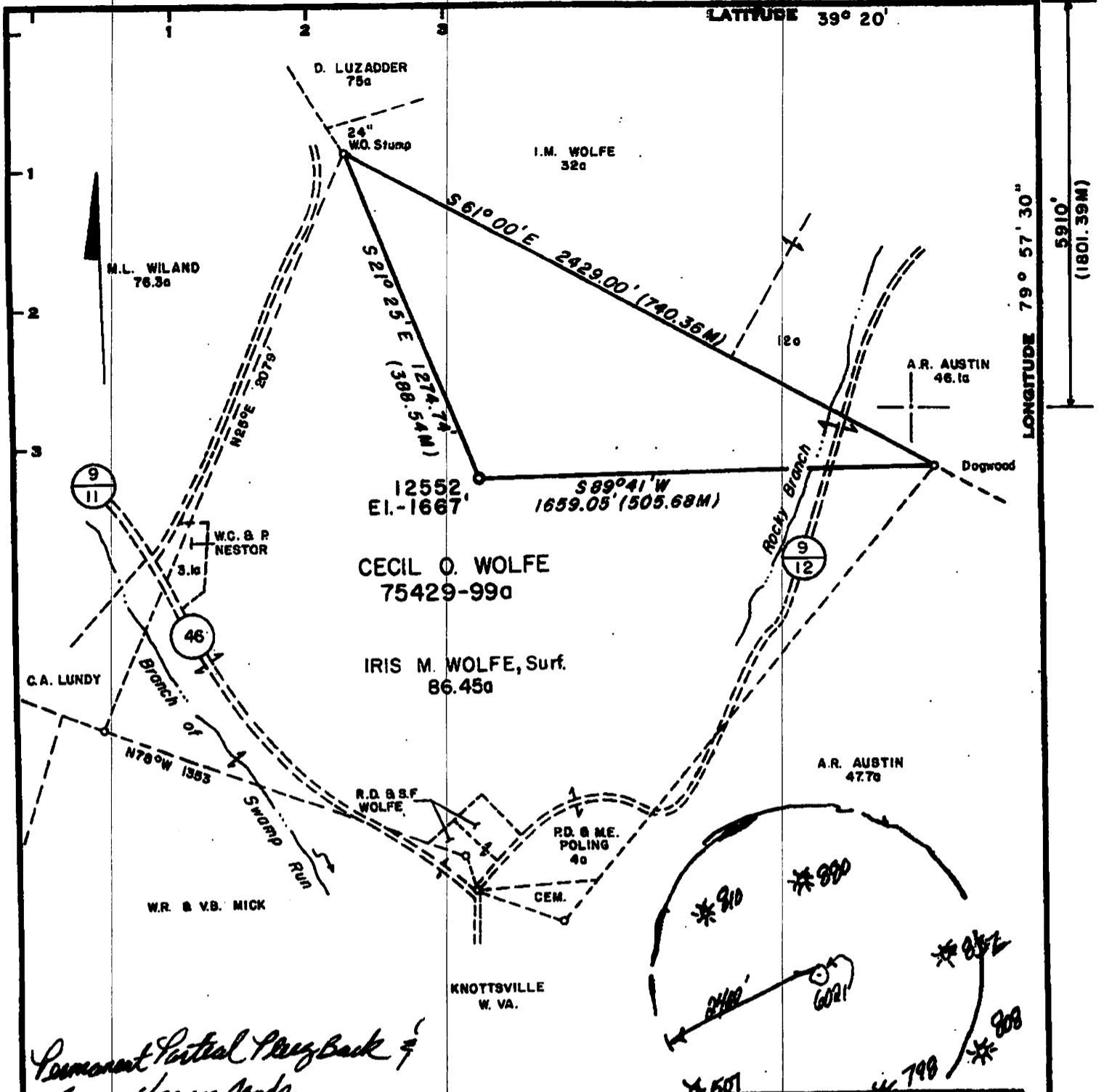
4/24/95

Nowsco Water Fraced:

Total Fluid	455 bbls.
Total Sand	sk 80/100 30K, 20/40
Total Acid	500 gal.
Ave. Rate	27 BPM
Ave. Press.	2,600#
Broke Form.	2600#
Frac. Grad.	1.3

Turned Well Back In Line - 4/27/95





*Permanent Partial Playback of  
Frac Honor Lands.  
Janie  
3/27/95*

Minimum Error of Closure 1' in 200'  
 Source of Elevation B.M. U.S.G.S. Monument, Intersection  
W. Va. Rt 9 & 12 El. - 1483, on U.S.G.S. Map Thornton, W.Va. 1958  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location   
 Drill Deeper   
 Abandonment

Map Sheet 1132-D-2

F.B. 1931 Pg. 11-19 & 31-33

Company C.N.G. Producing  
 Address 1020 6th St, Charleston, West Virginia  
 Farm CECIL O. WOLFE (Iris M. Wolfe, Surf.) 26530  
 Tract Acres 99 Lease No. 75429  
 Well (Farm) No. \_\_\_\_\_ Serial No. 12552  
 Elevation (Spirit Level) 1667'  
 Quadrangle Thornton, W.Va. 71/2-1958  
 County Taylor District Knottsville  
 Engineer Michael S. Jensen  
 Engineer's Registration No. 5525  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 8-25-78 Scale 1"=300'

STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 Office of Oil & Gas  
 Nitro, W.V.  
**WELL LOCATION MAP**  
Well No. 47-091-00168-W  
Permanent Partial Playback 03/06/2015  
 + Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.  
 — Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

MAR - 5 1979

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL RECORD - 5

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Thornton

Permit No. TAY-168  
47-091

Company <u>Consolidated Gas Supply Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>45 W. Main St., Clarksburg, WV</u>				
Farm <u>Canil O. Wolfe</u> Acres. <u>99</u>				
Location (waters) <u>Rocky Branch</u>				
Well No. <u>12552</u> Elev. <u>1667'</u>	Size			
District <u>Knottsville</u> County <u>Taylor</u>	<u>20-16</u>			
The surface of tract is owned in fee by _____	Cond.			
<u>Iris M. Wolfe</u>	<u>1 3/4" 11 3/4"</u>	<u>374'</u>	<u>374'</u>	To surface
Address <u>Rt. 1, Box 473, Grafton, WV 26354</u>	<u>9 5/8</u>			
Mineral rights are owned by <u>Walter H. Thomas et al</u>	<u>8 5/8</u>	<u>1055'</u>	<u>1055'</u>	To surface
Address <u>Rt. 1, Thornton, WV 26440</u>	<u>7</u>			
Drilling Commenced <u>October 21, 1978</u>	<u>5 1/2</u>			
Drilling Completed <u>October 30, 1978</u>	<u>4 1/2</u>	<u>3700'</u>	<u>3700'</u>	520 Sks.
Initial open flow <u>43M</u> cu. ft. _____ bbls.	<u>3</u>			
Final production <u>116.6M</u> cu. ft. per day _____ bbls.	<u>2</u>			
Well open <u>1 1/2</u> hrs. before test <u>1180#</u> RP.	Liners Used			

Well treatment details:

Attach copy of cementing record.

Well fractured in Balltown with 80,000# sand, 900 bbls. of water & 1000 gals. HP Acid.  
Perforations: 3480 - 3496' with 16 holes.

Coal was encountered at 755' Feet 60" Inches  
Fresh water 50' 550' Feet \_\_\_\_\_ Salt Water None Feet \_\_\_\_\_  
Producing Sand Balltown Depth 3480 - 3496'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	10		
Sand & Shale			10	305	Water	50' 1" Stream
Red Rock			305	325		
Sand	White		325	400		
Shale & Red Rock			400	475		
Sand & Shale			475	755	Water	550' Damp
Coal			755	760		
Sand & Shale			760	1070	Gas	1788' 28M
Sand & Shale			1070	1510	Gas	2597' 47M
Big Lime			1510	1620	Gas	2877' 47M
Sand			1620	1625	Gas	3566' 41M
Injun			1625	1700	Gas	3785' 46M
Sand & Shale			1700	4530	Gas	4409' 38M
Benson			4530	4540	Gas	4690' 43M
Sand & Shale			4540	4690	T.D.	
KBM 10' above G. L.						

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(over)

\* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil	Water	Remarks
Gamma Ray Log Tops							
Little Line			1464'	1476'			
Big Line			1506'	1586'			
Big Injun			1602'	1696'			
Pocono			1755'	1842'			
Berea Stray			1958'	1999'			
Berea			2010'	2014'			
Gantz A			2029'	2044'			
50'			2092'	2167'			
30'			2232'	2259'			
Gordon Stray			2275'	--			
Gordon			--	2433'			
4th			2462'	--			
4th A			--	2558'			
5th			2584'	--			
Lower 5th			--	2654'			
Lower Bayard			2756'	2776'			
Elisabeth			2815'	2851'			
Warren			2972'	2984'			
Upper Speechley			3175'	--			
Speechley			--	3323'			
Balltown			3346'	3498'			
Bradford			3782'	3888'			
Riley			4216'	4393'			
Benson			4532'	4537'			
Total Depth				4680'			

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Date March 1, 1978

FEB 20 2015

APPROVED Consolidated Gas Supply Corp. Owner

J. E. Dwyer, Manager of Department of Environmental Protection

03/06/2015

Return

4709100168	W - Archived - 2014
W - Archived - 2014	W - Archived - 2014
W - Archived - 2014	W - Archived - 2014
W - Archived - 2014	W - Archived - 2014

Owner Completion

API	EPISODE SUFFIX	CMP_DAY	CMP_MONTH	CMP_YEAR	CMP_STATUS	FARM	COMPNO	MINERAL	OPERATOR	SPUD_DAY	SPUD_MONTH	SPUD_YEAR	ELEV	DATUM
4709100168	1	10	1978	Completed	C O Wolfe	12552	Consolidated Gas Supply Corp.						1667	G
4709100168	2	4	1995	Completed	Cecil O Wolfe	12552	CNG Producing Co.			19	4	1995	1667	G

API	COUNTY	PERMIT DISTRICT	QUAD	SECTION	LAT_DEG	LAT_MIN	MILES_S	LONG_DEG	LONG_MIN	W_S	QUAD_S	LAT_DEG_S	LAT_MIN_S	MILES_S	S_S	LONG_DEG_S	LONG_MIN_S	
4709100168	Taylor	168	Kneetsville	Thornion	SW	39	20	1.12	79	55	2.57	65N	39	20	1	79	57	0

Complete Stage is Empty

str\_long14

Stratigraphy

API	SUFFIX	FM_Q	DEPTH	FEET	DEPTH_Q	THICKNESS	FEET	THICKNESS_Q	ELEV_Q	ELEV_Q	OF	DATUM	TYPE	OF	DATUM	TYPE	OF	DATUM	TYPE	OF	DATUM	STRAT_RANK	STRAT_OCCUR	STRAT_SET	NAME	STRA
4709100168	0	755	5	1464	12	1667	G	unidentified coal														0			MECK & up	01
4709100168	0	1506	96	1667	190	1667	G	Little Lime														4			MECK & up	03
4709100168	0	1602	94	1667	96	1667	G	Greenbrier Group														5			GRBR/INJN	03
4709100168	0	2010	4	1667	2092	1667	G	Big Lime														6			GRBR/INJN	04
4709100168	0	2232	27	1667	2815	1667	G	Big Injnn (Greenbrier)														9			FOCN	05
4709100168	0	2972	12	1667	3436	1667	G	Heran Sandstone														10			CSKL	06
4709100168	0	3782	106	1667	4216	1667	G	Thirty-foot														10			CSKL	06
4709100168	0	4532	5	1667	4532	1667	G	Elizabeth														15			CWING	09
4709100168	0						G	Warren Firt														15			CWING	09
4709100168	0						G	Balltown														16			CWING	09
4709100168	0						G	Bradford														17			CWING	09
4709100168	0						G	Riley														17			CWING	09
4709100168	0						G	Denson														18			CWING	09

Pay	EPISODE	ACTIVITY	PRODUCT	TOP	PFT	BOTTOM	PFB	BEFORE	AFTER	OIL	BEFORE	OIL	AFTER	WT	RQNTY
4709100168	1	P		0	3496	433	0	0	0						
4709100168	2	P		1596	355	1606	355	0	531						
4709100168	1	W		50	0	0	0	0	0						
4709100168	1	W		530	0	0	0	0	0						

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 Department of Environmental Protection  
 http://consol.sencap.com/wellinfo/well\_report.asp?newWhere=4709100168  
 03/06/2015

WW-4A  
Revised 6-07

1) Date: February 12, 2015  
2) Operator's Well Number  
CNGP - 6021

3) API Well No.: 47 - 91 - 00168

**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 <u>Elva G. Wolfe</u> ✓	Name <u>CoalQuest Development, LLC</u> ✓
Address <u>2741 Curve Bridge Road</u>	Address <u>2708 Cranberry Square</u>
<u>Grafton, West Virginia 26354</u>	<u>Morgantown, West Virginia 26508</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Kenneth Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Road</u>	Name _____
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>(304) 206-6613</u>	

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

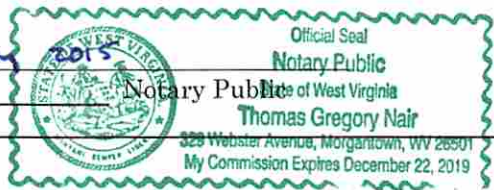
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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   
 Its: Designated Agent  
 Address 2708 Cranberry Square  
Morgantown, West Virginia 26508  
 Telephone (304) 594-1616

Subscribed and sworn before me this 16 day of February  
Thomas Gregory Nair  
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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**SURFACE OWNER WAIVER**

Operator's Well  
Number

CNGP - 6021 (47-091-00168)

**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.

RECEIVED  
Office of Oil and Gas  
FOR EXECUTION BY A CORPORATION,  
FEB 20 2015

X Elva G. Wolfe  
Signature

Date 2-13-15 Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_

\_\_\_\_\_  
Signature  
WV Department of  
Environmental Protection

(CUD)

9100168P

WW-4B

API No.	<u>47-91-00168</u>
Farm Name	<u>Iris Wolfe</u>
Well No.	<u>CNGP - 6021</u>

**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.

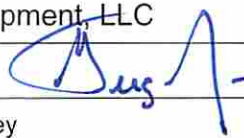
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, 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: 2/16/15

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

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 Office of Oil and Gas  
 FEB 20 2015  
 WV Department of  
 Environmental Protection  
 03/06/2015

9100168P  
A

WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 91 - 00168  
Operator's Well No. CNGP-6021

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 Rocky Branch Quadrangle Thornton (638)

Elevation 1667 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 fine or imprisonment.

Company Official Signature [Signature] 16 FEB 15

Company Official (Typed Name) Charles E. Duckworth

Company Official Title Designated Agent

RECEIVED  
Office of Oil and Gas

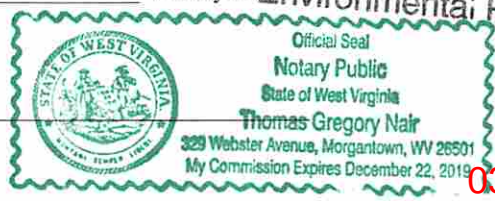
Subscribed and sworn before me this 16 day of February, 2015

FEB 20 2015

[Signature]

Notary Public  
WV Department of Environmental Protection

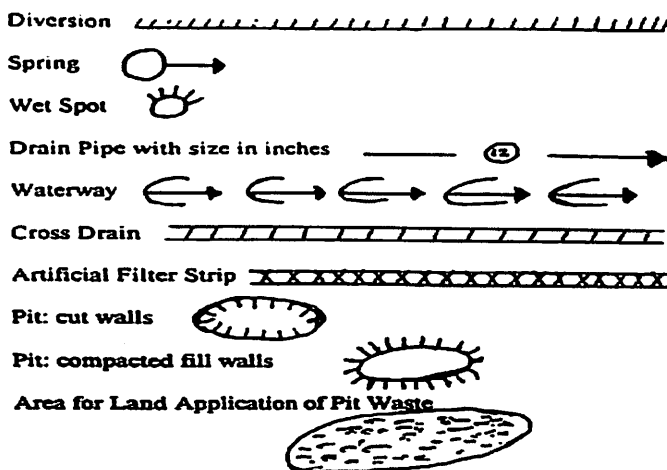
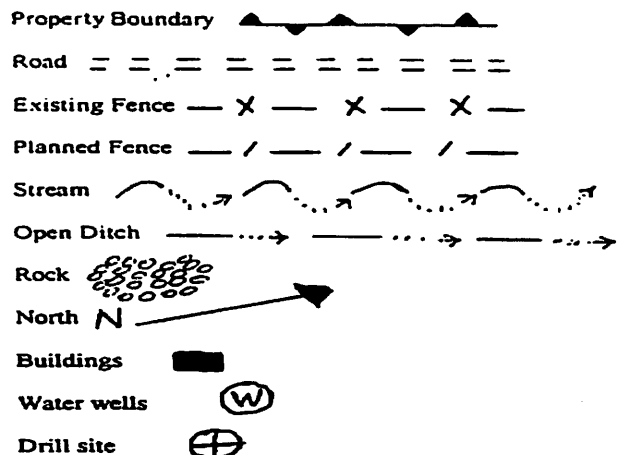
My commission expires December 22, 2019



03/06/2015



**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

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 application.

Photocopied section of involved 7.5' topographic sheet.

See attached

Plan Approved by: *James L. Reynolds*

Comments: RECLAIM, RESEED & MULCH ASAP

**RECEIVED**  
Office of Oil and Gas

FEB 20 2015

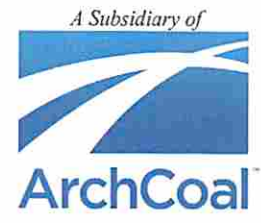
Title: OIL & GAS INSPECTION

Date: 2-18-15

Field Reviewed? ( ) Yes (  ) No

WV Department of  
Environmental Protection

9100168P



# ICG TYGART VALLEY, LLC

2708 Cranberry Square, Morgantown, West Virginia 26508

February 12, 2015

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.

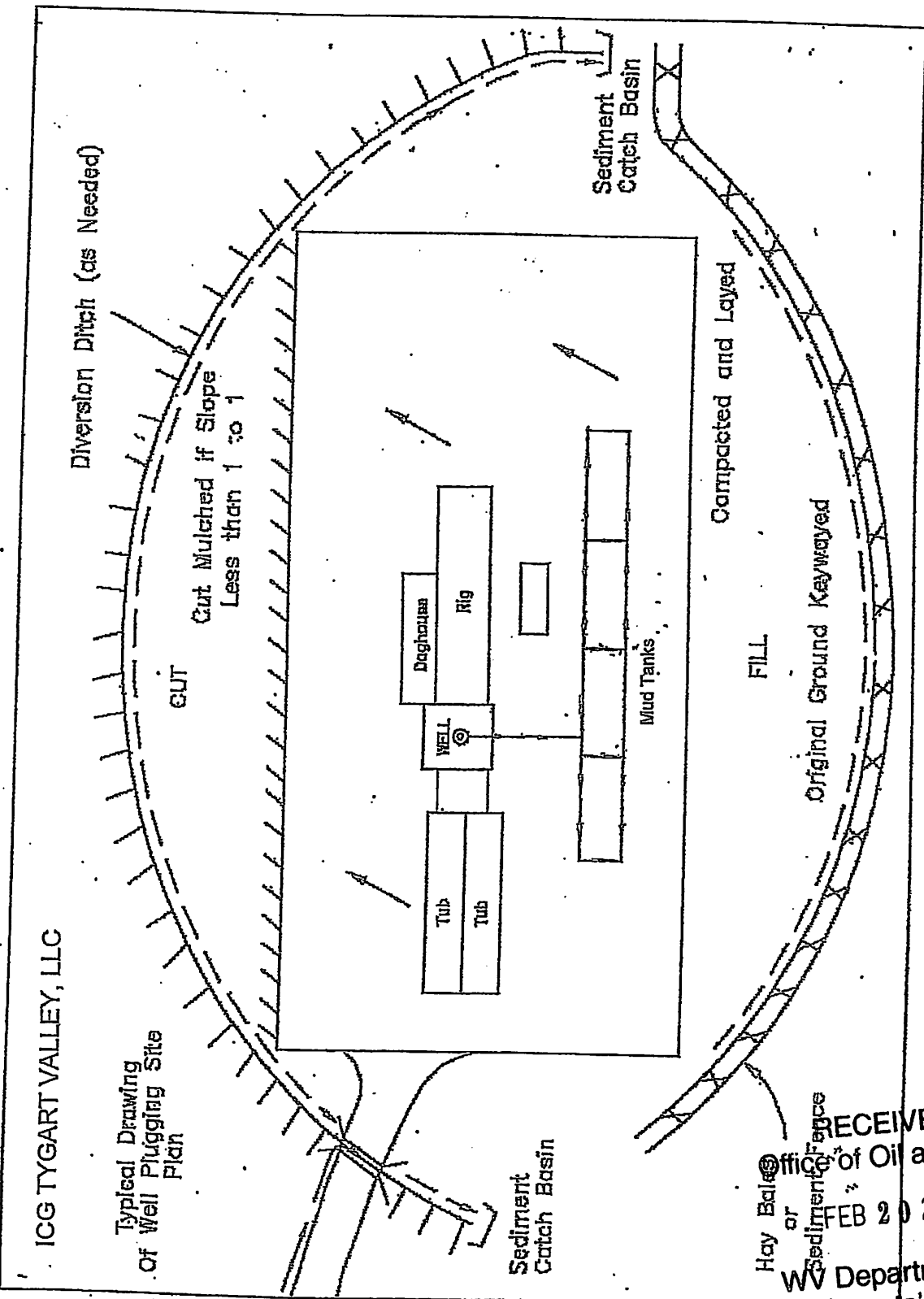
Sincerely,

A handwritten signature in black ink, appearing to read "Charles E. Duckworth", is written over a large, faint circular watermark or stamp.

Charles E. Duckworth  
Designated Agent

RECEIVED  
Office of Oil and Gas  
FEB 20 2015  
WV Department of  
Environmental Protection

03/06/2015



ICG TYGART VALLEY, LLC

Typical Drawing  
Of Well Plugging Site  
Plan

Diversions Ditch (as Needed)

CUT

Cut Mulched if Slope  
Less than 1 to 1

Tub  
Tub

Dagbatten

Rig

WELL

Mud Tanks

Sediment  
Catch Basin

Compacted and Layed

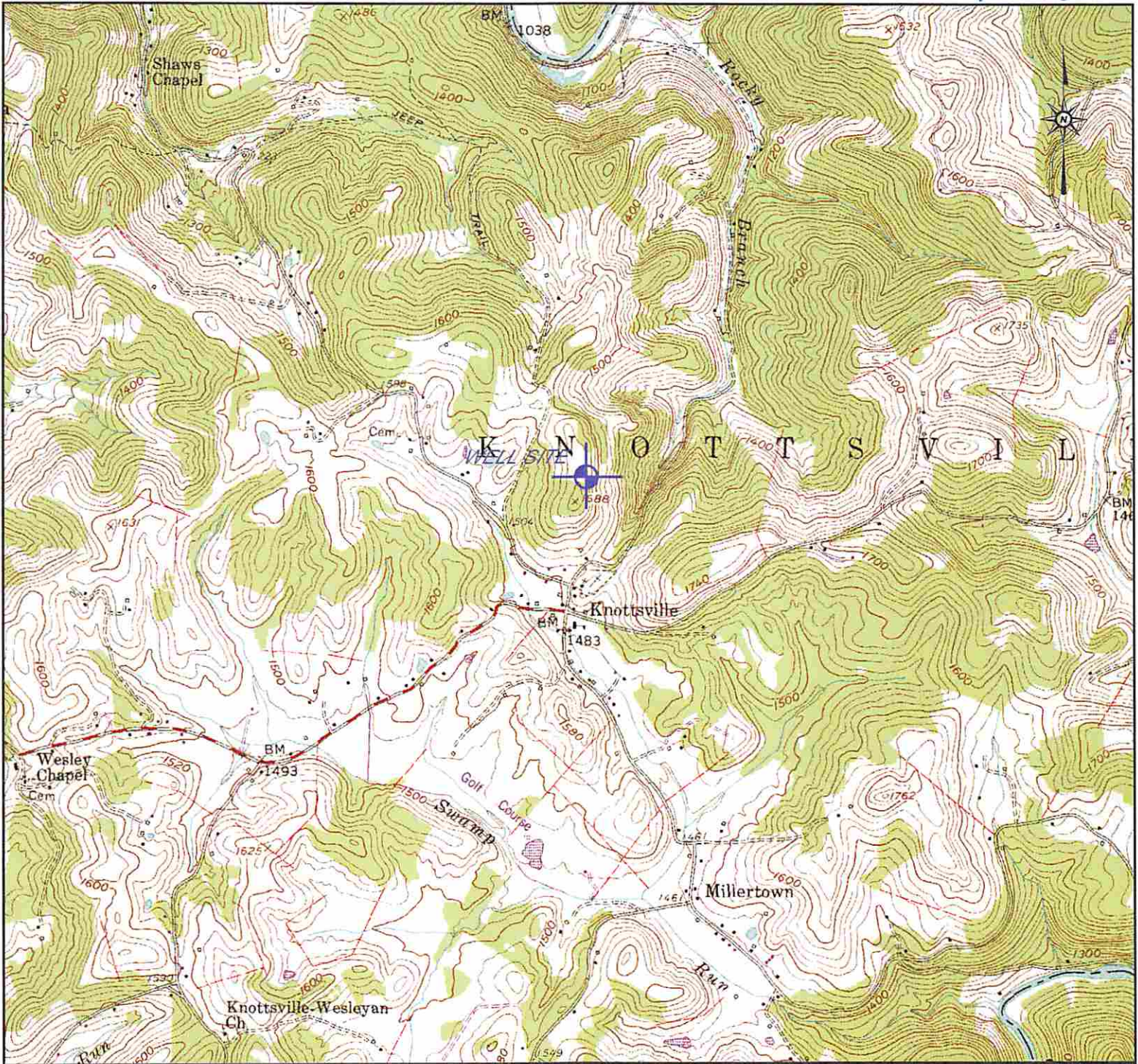
FILL

Original Ground Keywayed

Sediment  
Catch Basin

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 WV Department of  
 Environmental Protection  
 Office of Oil and Gas  
 FEB 20 2015  
 Hay Bale  
 or  
 Sediment

9100168F



RL 2-18-14

LATITUDE: 39° 18' 59"  
 LONGITUDE: 79° 57' 52"  
 NEAREST WATERCOURSE: Swamp Run/Rocky Branch  
 NEAREST TOWN: \_\_\_\_\_

OPERATOR'S WELL NO. CNGD 6021  
 API WELL NO. \_\_\_\_\_  
**47** - **091** - **00168**  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1667 WATERSHED Rocky Branch  
 DISTRICT Knottsville COUNTY Taylor

SURFACE OWNER: Thorton Wolfe ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER: Cecil O. Wolfe LEASE ACREAGE \_\_\_\_\_  
 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 Balltown ESTIMATED DEPTH 4680'  
 WELL OPERATOR ICG Tygart Valley, LLC DESIGNATED AGENT Charles E. Duckworth  
 ADDRESS 2708 Cranberry Square, Morgantown, WV 26508 ADDRESS 1209 Tygart Drive, Grafton, WV 26508

REVISED BY	DATE	<b>API WELL NO. 47-091-00168</b>	
		<b>CNGD 6021</b>	
		<b>ICG TYGART VALLEY, LLC</b>	
		RECEIVED	SCALE 1" = 2000'
		DIRECTOR	DATE ORIGINATED
		OFFICE OF OIL AND GAS	FEBRUARY, 2015
		DRAWING NO. <u>47-091-00168-001</u>	PLOTTING SCALE
		FEB 20 2015	

PREPARED BY: Arch Environmental

Department of Northern Region  
 208 Cranberry Square, Morgantown, WV 26508  
 Phone: 304-594-1511

**03/06/2015**

WW-7  
8-30-06



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

API: 47-091-00168 WELL NO.: CNGP - 6021

FARM NAME: Cecil O. Wolfe

RESPONSIBLE PARTY NAME: ICG Tygart Valley, LLC

COUNTY: Taylor DISTRICT: Knottsville

QUADRANGLE: Thornton

SURFACE OWNER: Elva G. Wolfe

ROYALTY OWNER: CoalQuest Development, LLC

UTM GPS NORTHING: 4352415.392

UTM GPS EASTING: 589283.600 GPS ELEVATION: 1671.03

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

February 16, 2015  
\_\_\_\_\_  
Date

03/06/2015

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

**Dated: January 1, 2015**

**Expires: December 31, 2015**

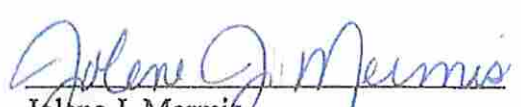
KNOW ALL MEN BY THESE PRESENTS: That ICG Tygart Valley, LLC, a limited liability company organized and existing under the laws of the State of Delaware (the "Company"), acting by and through James E. Florczak, its duly authorized Vice President and Treasurer, has and does hereby appoint Greg Nair its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Company, during the period 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.

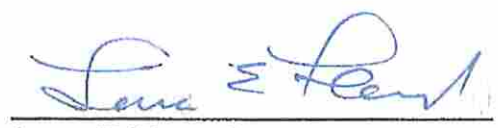
The Attorney herein appointed shall be authorized to act pursuant to this Power from the date hereof only so long as such Attorney shall remain an employee of Arch Coal, Inc. or any subsidiary thereof, or until December 31, 2015, or until such earlier time as this instrument has been revoked, annulled, 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:

ICG TYGART VALLEY, LLC

  
\_\_\_\_\_  
Jolene J. Mermis  
Assistant Secretary of the Company

  
\_\_\_\_\_  
James E. Florczak  
Vice President and Treasurer

**POWER OF ATTORNEY**

**COALQUEST DEVELOPMENT LLC  
TO  
GREG NAIR**

**Dated: January 1, 2015**

**Expires: December 31, 2015**

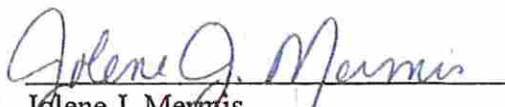
**KNOW ALL MEN BY THESE PRESENTS:** That CoalQuest Development LLC ("Company"), a limited liability company organized and existing under the laws of the State of Delaware, acting by and through James E. Florczak, its duly authorized Vice President and Treasurer, has and does hereby appoint Greg Nair 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.

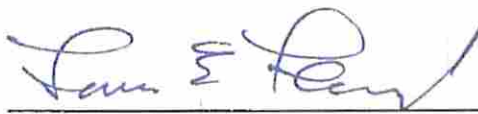
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Attest:

COALQUEST DEVELOPMENT LLC

  
\_\_\_\_\_  
Jolene J. Mermis  
Assistant Secretary of the Company

  
\_\_\_\_\_  
James E. Florczak  
Vice President and Treasurer