



**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

July 28, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9100525, 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: 2235  
Farm Name: LIBERATI, MARY  
**API Well Number: 47-9100525**  
**Permit Type: Plugging**  
Date Issued: 07/28/2015

**Promoting a healthy environment.**

**07/31/2015**

1) Date June 8, 20 15  
2) Operator's  
Well No. CNGD WN 2235  
3) API Well No. 47-91 - 00525 P

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 1470 Watershed Swamp Run  
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  
Name Kenneth Greynolds  
Address 613 Broad Run Road  
Jane Lew, WV 26378

9) Plugging Contractor  
Name Coastal Drilling East, LLC  
Address 130 Meadows Ridge Road  
Mt. Morris, PA 15349

10) Work Order: The work order for the manner of plugging this well is as follows:

See Plugging Plans - Exhibit Nos. 1 and 2

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

received  
Office of Oil & Gas  
JUN 26 2015

Work order approved by inspector *Kenneth Greynolds* Date 6-24-15

## EXHIBIT #2

Cleanout/Plugging Plan for 47-091-00525 (CNGD WN 2235 – Liberati)KLL  
6-24-15

- 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 2,587’). No perforations or cuts are required by the State of WV since the 4 1/2” casing is already perforated in the pay zones.
- Day 5 – Trip in hole (T.I.H) with 2 3/8” drill pipe to T.D. Cement hole from 5307’ back to 2,587’ with 210 sacks of Class A Cement with a gas blocker additive. Circulate hole, condition mud, T.O.H.
- Day 6 – T.I.H with 3 3/4” bit to tag top of cement plug at 2,587’. 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 2,587’. Lay down 2 3/8” drill pipe.
- 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 2,587’. Lay down 4 1/2” casing.
- 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 2,587’.
- Day 9 – Continue to clean hole with 7 7/8” bit to top of remaining 4 1/2” casing at 2,587’. 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 2,587’ to within 50’ of bottom of 8 5/8” casing at 968 with 1000 gallons of mud flush and 450 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

## EXHIBIT #2

report indicates that the 8 5/8" casing was cemented to surface.

- Day 11 - 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 1,018'. Circulate hole at 1,018'. T.O.H with 7 7/8" bit. Run caliper log to verify window in 8 5/8" casing. Lay down drill collars and fishing tools. Prepare to cement hole to surface.
- Day 15 - Cement hole from 1,018' to surface using 181 sacks of Class A cement with 4% gel and 121 sacks of Thixotropic cement with green dye. Clean out mud tank. Rig down equipment and prepare to move rig to next site.

★ THERE APPEARS TO BE TWO (2) COAL SEAMS.

COAL 385 - 387  
COAL 560 - 563

PLEASE INDICATE ON THE  
PLUGGING AFFIDAVIT THE COAL  
SEAM SECTION MILLED, OR IF  
BOTH COAL SEAMS WERE SECTION  
MILLED.

JWM

JAN 21 1985

State of West Virginia  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
Department of Mines  
Oil and Gas Division

Operator's  
Well No. CNGD WN 2235  
Farm Walter S. Rogers  
API No. 47 - 091 - 0525

91005257

WELL OPERATOR'S REPORT  
OF  
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 x /)

LOCATION: Elevation: 1497 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 Mary Knotts Liberari

ADDRESS Rt. 1 Box 401  
Grafton, WV 26354

MINERAL RIGHTS OWNER Walter S. Rogers, Heirs

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK

Donald Ellis ADDRESS 2604 Crab Apple Lane  
Fairmont, WV 26554

PERMIT ISSUED December 9, 1985

DRILLING COMMENCED 12/9/85

DRILLING COMPLETED 12/15/85

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"	254	254	To Surf
9 5/8			
8 5/8	968	968	To Surf.
7			
5 1/2			
4 1/2	5260	5260	550 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION 3rd Elk Depth 5300 feet

Depth of completed well 5307 feet Rotary x / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 300 feet; Salt \_\_\_\_\_ feet

Coal seam depths: 385 - 387 Is coal being mined in the area? No  
560 - 563 3rd Elk 5078-5085

OPEN FLOW DATA Benson 4458-4462  
Riley 4076-4234  
Producing formation Balltown Pay zone depth 3329-3334 feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 750 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ hours

Static rock pressure 1150 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

07/31/2015

TAY 0525

9100525 P

Rley 4076-4234, 14 holes, .39; Balltown 3329-3334, 16 holes, .39  
 Foam Frac 1st stage - Gel System 20#, Break 3200, Ave HHP 3, Ave Rate 20 BPM, Ave Pres. 3300, Max. Tr Pres. 3450, 500 gal FE Acid, 40,000# 20/40 Sand, Max Conc. 3, Total Fluid 480 bbl, SL Fluid 400 bbl, ISIP 2395 psi, Total Nitrogen 332,500 SCF, Quality Foam 50Q.  
 2nd Stage - Gel System 20#, Break 3800, Ave HHP 2, Ave Rate 20 BPM, Ave Pres. 3500 psi, Max Tr Pres. 3800 psi, 500 gal FE Acid, 27,500# 20/40 Sand, Max Conc. 2-1/2, Total Fluid 390, SL Fluid 310 bbl, ISIP 2150 psi, Total Nitrogen 338,000 SCF, Quality Foam 65Q.  
 3rd Stage - Gel System 20#, Break 1850, Ave HHP 3, Ave Rate 28 BPM, Ave Pres. 3450 psi, Max Tr Pres. 3550, 500 gal FE Acid, 70,000# 20/40 Sand, Max Conc. 3, Total Fluid 823 bbl, SL Fluid 653 bbl, ISIP 1650 psi, Total Nitrogen 654,500 SCF, Quality Foam 65Q.  
 4th Stage - Gel 20#, Break 3500, Ave HHP 2, Ave Rate 16BPM, Ave Pres. 2600 psi, Max Tr Pres. 2650 psi, 500 gal FE Acid, 40,000# 20/40 Sand, Max Conc. 3, Total Fluid 548 bbl, SL Fluid 400 bbl, ISIP 1925 psi, 5 min SIP 1591 psi, Total Nitrogen 365,000 SCF, Quality 75Q

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
			Including indication of all fresh and salt water, coal, oil and gas
KB to GL	0	10	
Sand, Shale & RR	10	385	Approx. 1" Water @ 50' 1/2" stream @ 300'
Coal	385	387	
Sand & Shale	387	560	
Coal	560	563	Coal 385 - 387 560 - 563
Sand, Shale & RR	563	1320	
L. Lime	1320	1340	
Sand & Shale	1340	1365	
B. Lime & Injun	1365	1560	
Sand & Shale	1560	3330	
Balltown	3330	3370	
Sand & Shale	3370	4050	
Riley	4050	4070	
Sand & Shale	4070	4360	
Benson	4360	4380	
Sand & Shale	4380	4500	
Elk	4500	4530	
Sand & Shale	4530	4700	
Elk	4700	4830	
Sand & Shale	4830	5075	
Elk	5075	5140	
Sand & Shale	5140	5307	

**LOG TOPS**  
 See Attached Sheet

Received  
 Office of Oil & Gas  
 JUN 26 2015

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY  
 Well Operator  
 By: *[Signature]*  
 Date: January 6, 1986 07/31/2015

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EXHIBIT NO. 1  
101C

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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".

WW-4A  
Revised 6-07

1) Date: June 8, 2015  
2) Operator's Well Number  
CNGD WN 2235  
3) API Well No.: 47 - 91 - 00525

**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>Mary V. Knotts Liberati</u>	Name <u>CoalQuest Development, LLC</u>
Address <u>RR 3, Box 197</u>	Address <u>2708 Cranberry Square</u>
<u>Phillippi, West Virginia 26416-9570</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

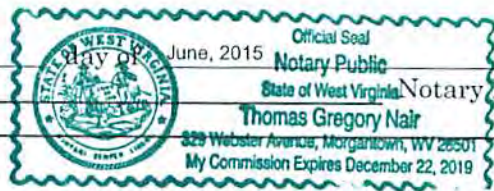
Morgantown, West Virginia 26508

Telephone (304) 594-1616

Subscribed and sworn before me this 8 day of June, 2015

Thomas Gregory Nair

My Commission Expires December 22, 2019



Received  
Office of Oil & Gas  
JUN 26 2015

**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 [deprivacyoffier@wv.gov](mailto:deprivacyoffier@wv.gov).

07/31/2015



**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.

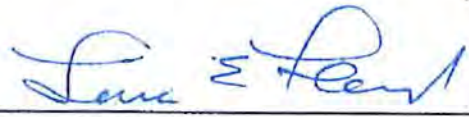
IN WITNESS WHEREOF, the Company has caused this Power of Attorney to be executed on its behalf, and its seal to be hereunto affixed and attested as of the day and year first above written, by the undersigned, James E. Florczak, duly authorized Vice President and Treasurer of the Company, and Jolene J. Mermis, duly elected Assistant Secretary of the Company.

Attest:

ICG TYGART VALLEY, LLC

Received  
Office of Oil & Gas  
JUN 26 2015

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

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

API No.	<u>47-91-00525</u>
Farm Name	<u>Walter S. Rogers</u>
Well No.	<u>CNGD WN 2235</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.

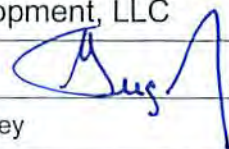
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, 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: 6/8/2015

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

Received  
 Office of Oil & Gas  
 JUN 26 2015

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 1470 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]

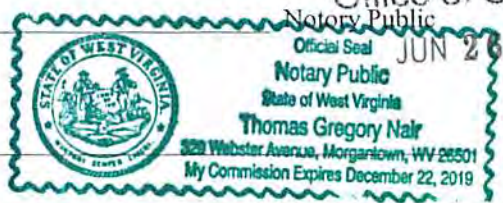
Company Official (Typed Name) Charles E. Duckworth

Company Official Title Designated Agent

Subscribed and sworn before me this 10 day of June, 2015

[Signature]

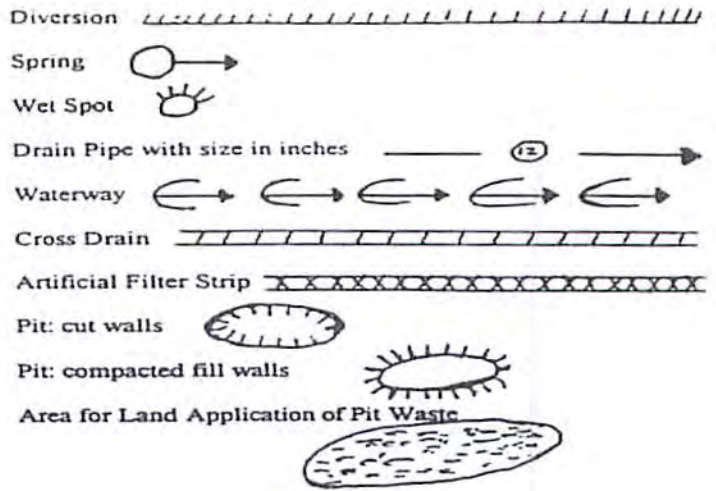
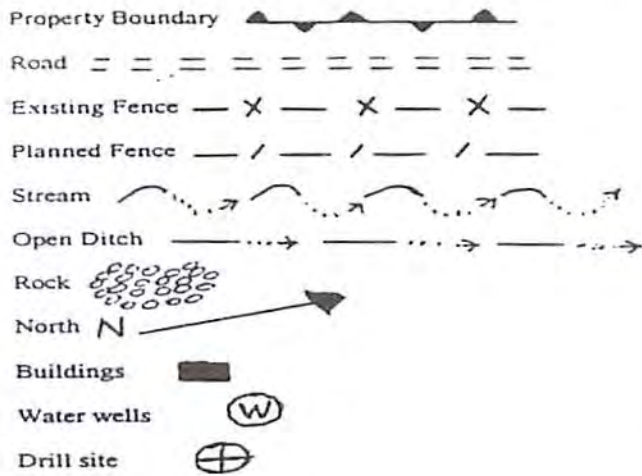
My commission expires December 22, 2019



Received  
Office of Oil & Gas  
Notary Public  
Official Seal JUN 26 2015

07/31/2015

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

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, RESEED + MULCH ASAP

Received  
Office of Oil & Gas

JUN 26 2015

Title: OIL & GAS INSPECTOR

Date: 6-24-15

Field Reviewed? ( ) Yes (  ) No

ICG TYGART VALLEY, LLC

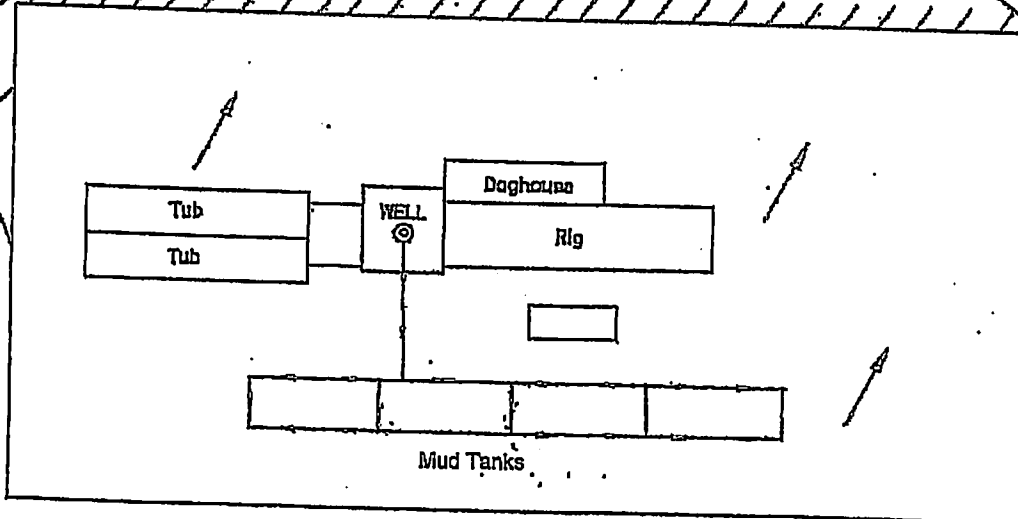
Typical Drawing  
Of Well Plugging Site  
Plan

Diversion Ditch (as Needed)

CUT

Cut Mulched if Slope  
Less than 1 to 1

Sediment  
Catch Basin



Sediment  
Catch Basin

Compacted and Layed

FILL

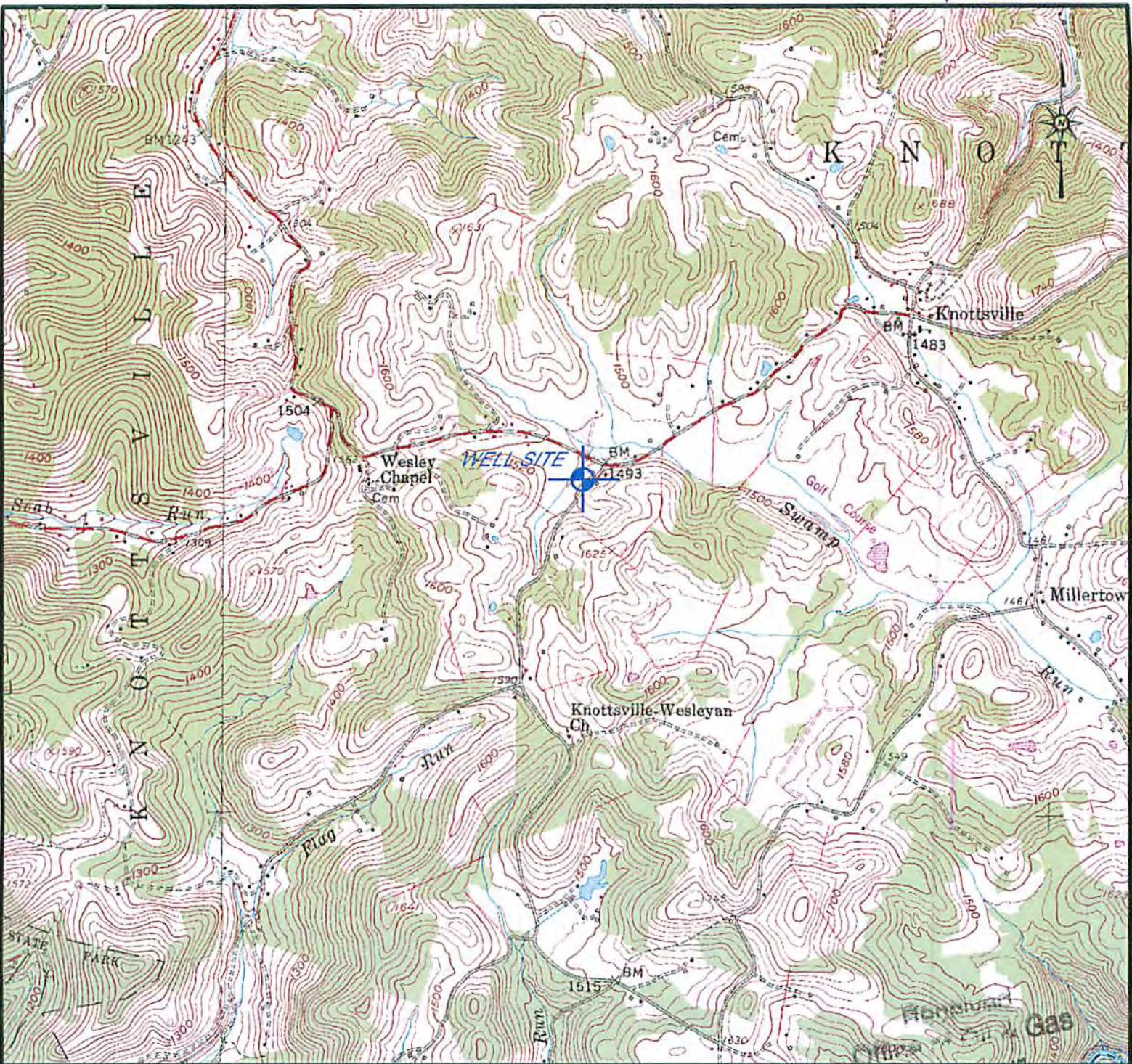
Original Ground Keywayed

Hay Bales  
or  
Sediment Fence

Received  
Office of Oil & Gas  
JUN 26 2015

9100525P

9100525P



LATITUDE: 39° 18' 16.8"  
 LONGITUDE: 79° 58' 55"  
 NEAREST WATERCOURSE: Swamp Run  
 NEAREST TOWN: Knottsville

OPERATOR'S WELL NO. CNGD WN 2235  
 API WELL NO.  
 47 - 091 - 00525  
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS  LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION  STORAGE DEEP SHALLOW   
 LOCATION: ELEVATION 1497 WATERSHED Rocky Branch  
 DISTRICT Knottsville COUNTY Taylor  
 QUADRANGLE Thornton 7 172  
 SURFACE OWNER: Mary V. Knotts, Liberti ACREAGE 3.98  
 OIL & GAS ROYALTY OWNER: Walter S. Rogers, Hens LEASE ACREAGE 72.00  
 LEASE NO. 74749  
 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 3rd Elk ESTIMATED DEPTH 5300'  
 WELL OPERATOR ICG Tygart Valley, LLC DESIGNATED AGENT Charles E. Duckworth  
 ADDRESS 2708 Cranberry Square, Morgantown, WV 26508 ADDRESS 1200 Tygart Drive, Grafton, WV 26508

REV 26 2015  
 KVC 6-24-15

REVISED BY	DATE:	API WELL NO. 47-091-00525 CNGD WN 2235	
		ICG TYGART VALLEY, LLC	
		DRAWN BY: Tony A. Hill	SCALE: 1" = 2000'
		DIRECTORY DIGITIZING #1 WV OIL & GAS PERMIT MAINT	DATE ORIGINATED FEBRUARY, 2015
		DRAWING NO. 47-091-00525.dgn	PLOTTING 3/24/15



Appalachia - Northern Region  
 2708 Cranberry Square, Morgantown, WV 26508  
 Phone: 304-594-1616 Fax: 304-594-1617

07/31/2015

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-091-00525 WELL NO.: CNGD WN 2235

FARM NAME: Walter S. Rogers

RESPONSIBLE PARTY NAME: ICG Tygart Valley, LLC

COUNTY: Taylor DISTRICT: Knottsville

QUADRANGLE: Thornton

SURFACE OWNER: Mary V. Knotts Liberati

ROYALTY OWNER: Walter S. Rogers, Heirs

UTM GPS NORTHING: 4351087.923

UTM GPS EASTING: 587792.342 GPS ELEVATION: 1497.78

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:

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

Survey grade GPS  : Post Processed Differential \_\_\_\_\_  
Real-Time Differential

Mapping Grade GPS \_\_\_\_\_ : Post Processed Differential \_\_\_\_\_  
Real-Time Differential \_\_\_\_\_

- 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

June 8, 2015  
Date

Received  
Office of Oil & Gas  
JUN 26 2015

9100525P



# ICG TYGART VALLEY, LLC

2708 Cranberry Square, Morgantown, West Virginia 26508

June 8, 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 blue ink, appearing to be 'Charles E. Duckworth'. The signature is fluid and cursive, with a large loop at the end.

Charles E. Duckworth  
Designated Agent

Received  
Office of Oil & Gas  
JUN 26 2015

07/31/2015