



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: 47-9100812, 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: WAUGH D-79
Farm Name: LUDWICK, RONALD & FRED A J
API Well Number: 47-9100812
Permit Type: Plugging
Date Issued: 07/28/2015

Promoting a healthy environment.

07/31/2015

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

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date March 24, 2015
2) Operator's
Well No. Waugh #D-79
3) API Well No. 47-91-00812 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 1455 Watershed Swamp Run
District Knottsville County Taylor Quadrangle Grafton (378)

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

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Office of Oil & Gas

JUN 26 2015

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

Work order approved by inspector *[Signature]* Date 6-24-15

07/31/2015

EXHIBIT NO. 1
101C

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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JUN 26 2015

EXHIBIT #2

Cleanout/Plugging Plan - for 47-091-00812 (Waugh D-79)

- 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 2,854'). 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 5,574' back to 2,854' 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 2,854'. 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 2,854'. 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 2,854'. 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 2,854'.
- Day 9 – Continue to clean hole with 7 7/8" bit to top of remaining 4 1/2" casing at 2,854'. 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 2,854' to within 50' of bottom of 8 5/8" casing at 1,050 with 1000 gallons of mud flush and 503 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" section mill. Section mill 30' window in 8 5/8" casing through coal seam.

KCC
6-24-15

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EXHIBIT #2

- ★ • 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 1,100'. Circulate hole at 1,100'. 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 1,100' to surface using 223 sacks of Class A cement with 4% gel and 162 sacks of Thixotropic cement with green dye. Clean out mud tank. Rig down equipment and prepare to move rig to next site.

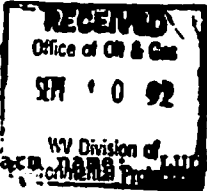
★ INDICATE ON PLUGGING AFFIDAVIT IF BOTH COALS BEHIND 8 5/8" CASING ARE OPEN TO THE 30' SECTION MILL WINDOW OR NOT.
 JWM

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 Office of Oil & Gas
 JUN 26 2015

91008127

WR-35

14-Apr-92
API # 47- 91-00812



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

Well Operator's Report of Well Work

From: LUENICK, RONALD & PRADA J Operator Well No.: WAUGH #D-79

LOCATION: Elevation: 1455.00 Quadrangle: THORNTON

District: KNOTTSVILLE County: TAYLOR
Latitude: 9700 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 5400 Feet West of 79 Deg. 57 Min. 30 Sec.

Company: SHELDON & ASSOCIATES, INC

1400 JOHNSON AVE; BLDG 4 STE E | Casing | Used in | Left | Cement

BRIDGEPORT, WV 26330-1071

Agent: TIMOTHY D. FREED

Inspector: PHILLIP TRACY
Permit Issued: 04/14/92
Well work Commenced: 04/20/92
Well work Completed: 04/28/92
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 5574'
Fresh water depths (ft) 20', 62', 72', 138'

Salt water depths (ft) 0

Is coal being mined in area (Y/N): N
Coal Depths (ft): 91', 97', 590', 607'

Size	Drilling	in Well	Fill Up Cu. Ft.
11 3/4	128'	128'	75' SKS
8 5/8	1,050'	1,050'	260' SKS
4 1/2	5,424'	5,424'	550' SKS

OPEN FLOW DATA

Producing formation BALLTOWN, BENSON, ELKS, HAVERTY Pay zone depth (ft) 5000-5270
Gas: Initial open flow 300 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 133 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 240 Hours
Static rock Pressure 925 psig (surface pressure) after 240 Hours

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.

Reviewed TMG
Recorded _____

For: SHELDON & ASSOCIATES, INC.

By: Its President
Date: May 14, 1992

TAY 0812

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Office of Oil & Gas
JUN 26 2015

07/31/2015

9100812P

WW-4A
Revised 6-07

1) Date: June 17, 2015
2) Operator's Well Number
Waugh #D-79
3) API Well No.: 47 - 91 - 00812

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>Ronald L. Ludwick</u>	Name <u>CoalQuest Development, LLC</u>
Address <u>RR 1, Box 451</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.

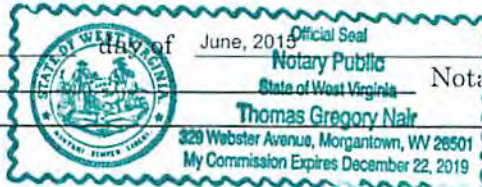
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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

Received
Office of Oil & Gas
JUN 26 2015

Subscribed and sworn before me this 17 of June, 2015
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.

07/31/2015

POWER OF ATTORNEY
ICG TYGART VALLEY, LLC
TO
GREG NAIR

Dated: January 1, 2015

Expires: December 31, 2015

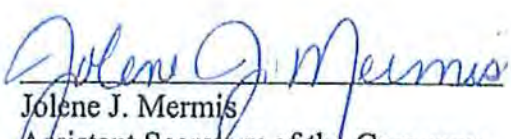
KNOW ALL MEN BY THESE PRESENTS: That ICG Tygart Valley, LLC, a limited liability company organized and existing under the laws of the State of Delaware (the "Company"), acting by and through James E. Florczak, its duly authorized Vice President and Treasurer, has and does hereby appoint Greg Nair its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

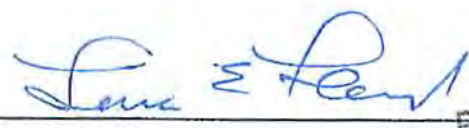
The Attorney herein appointed shall be authorized to act pursuant to this Power from the date hereof only so long as such Attorney shall remain an employee of Arch Coal, Inc. or any subsidiary thereof, or until December 31, 2015, or until such earlier time as this instrument has been revoked, annulled,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


Jolene J. Mermis
Assistant Secretary of the Company


James E. Florczak
Vice President and Treasurer
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Office of Oil & Gas
JUN 26 2015

API No.	<u>47-91-00812</u>
Farm Name	<u>Ronald & Freda J. Ludwick</u>
Well No.	<u>Waugh #D-79</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.

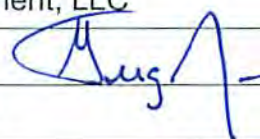
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, 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: 6/17/15

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

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 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 Grafton (378)

Elevation 1455 County Taylor District Knottsville

Description of anticipated Pit Waste: N/A

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

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Office of Oil & Gas
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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 [Handwritten Signature]

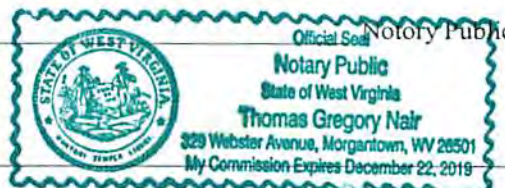
Company Official (Typed Name) Charles E. Duckworth

Company Official Title Designated Agent

Subscribed and sworn before me this 17 day of June, 2015

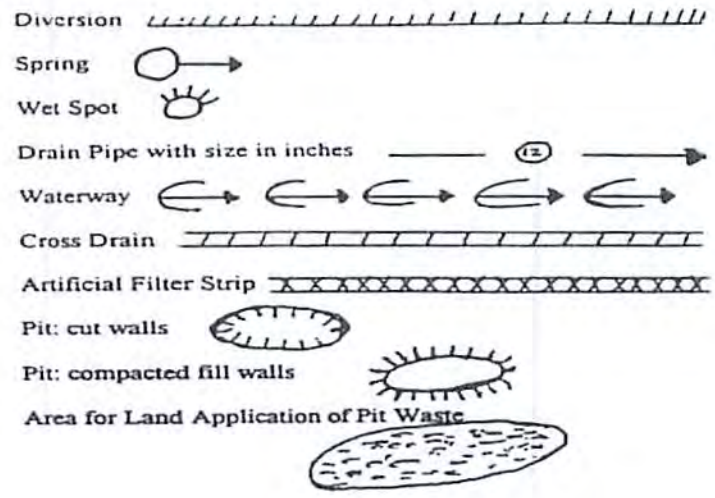
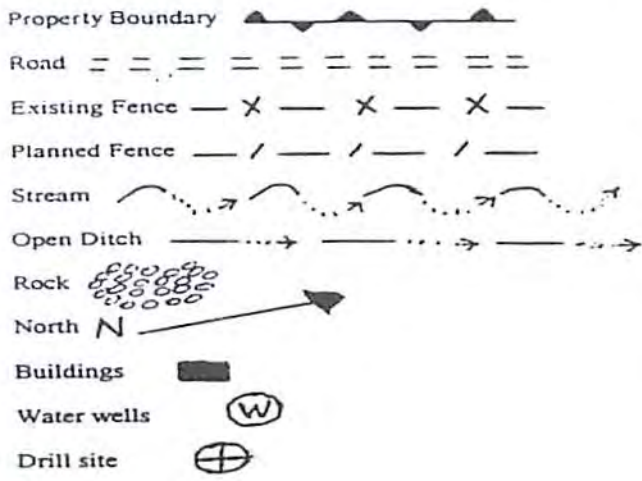
[Handwritten Signature]

My commission expires December 22, 2019



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
Orchard Grass		12
Landino Clover		3
Timothy		10

Seed Type	Area II	lbs/acre
Orchard Grass		12
Landino Clover		3
Timothy		10

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Office of Oil & Gas
JUN 26 2015

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

Title: OIL & GAS INSPECTION Date: 6-24-14

Field Reviewed? () Yes () No

9100812P



ICG TYGART VALLEY, LLC

2708 Cranberry Square, Morgantown, West Virginia 26508

June 17, 2015

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

To Whom It May Concern:

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

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

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

Sincerely,

Charles E. Duckworth
Designated Agent

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Office of Oil & Gas
JUN 26 2015

07/31/2015

ICG TYGART VALLEY, LLC

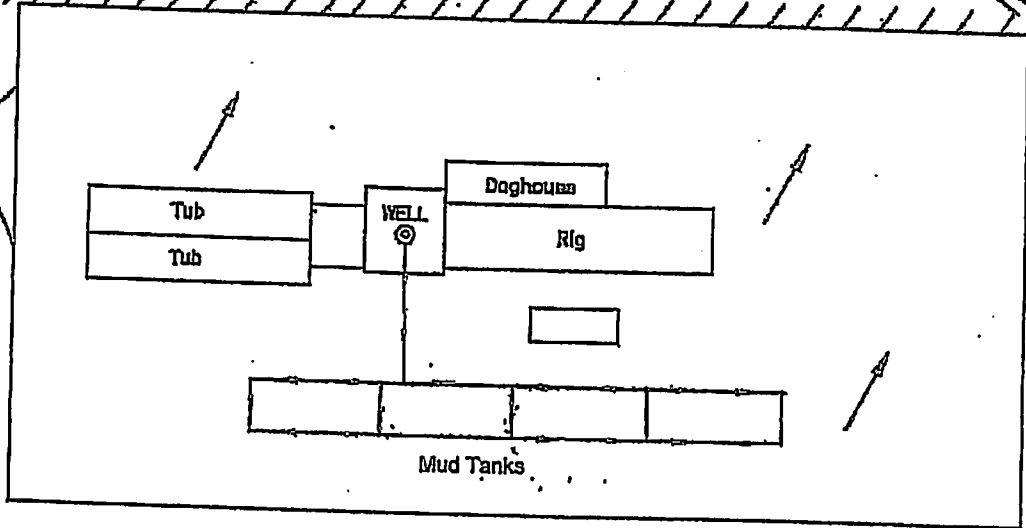
Typical Drawing
Of Well Plugging Site
Plan

Diversion Ditch (as Needed)

CUT

Cut Mulched if Slope
Less than 1 to 1

Sediment
Catch Basin



Sediment
Catch Basin

Compacted and Layed

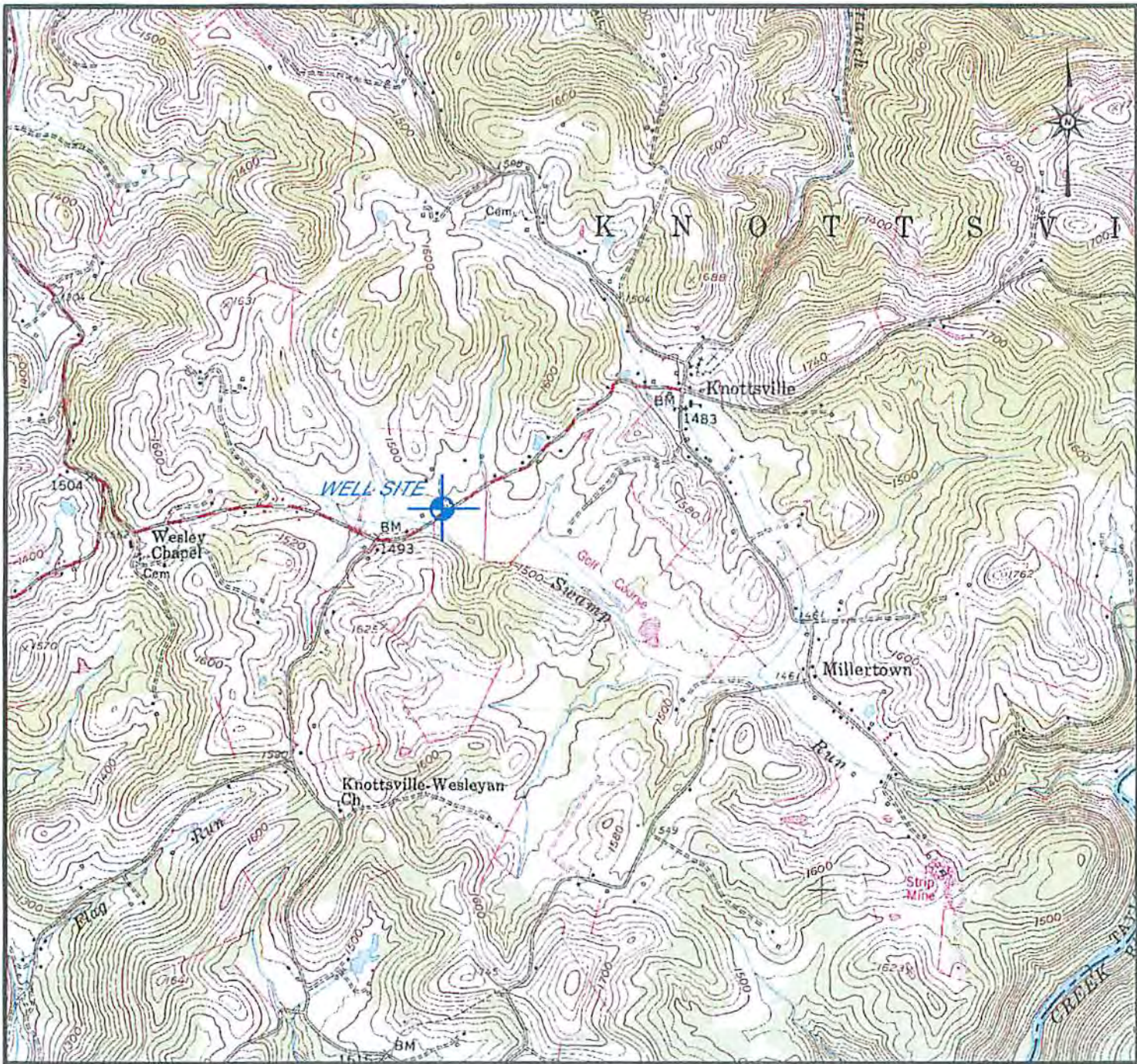
FILL

Hay Bales
or
Sediment Fence

Original Ground Keywayed

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JUN 26 2015

9100812.P



LATITUDE: 39° 18' 23"
 LONGITUDE: 79° 58' 39"
 NEAREST WATERCOURSE:
 NEAREST TOWN:

OPERATOR'S WELL NO. Waugh
 API WELL NO. D-79
47 - 091 - 00812
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1455 WATERSHED Swamp Run
 DISTRICT Knottville COUNTY Taylor
 QUADRANGLE Thornton 7 1/2
 SURFACE OWNER: Ronald L. Luckvick ACREAGE 0.91
 OIL & GAS ROYALTY OWNER: Margaret Carmen Waugh LEASE ACREAGE 9.52
 LEASE NO. _____
 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, Elk ESTIMATED DEPTH 5500'
 WELL OPERATOR: ICG Tygart Valley, LLC DESIGNATED AGENT: Charles E. Duckworth
 ADDRESS: 2708 Cranberry Square, Morgantown, WV 26508 ADDRESS: 1200 Tygart Drive, Gilman, WV 26508

REVISED BY:	DATE:	API WELL NO. 47-091-00812 WAUGH D-79	
		ICG TYGART VALLEY, LLC	
		DRAWN BY: <u>Jerry A. Hill</u>	SCALE: 1" = 2000'
		DIRECTORY: <u>DWG TYG115 #1</u>	DATE ORIGINATED: <u>JANUARY 2015</u>
		DRAWING NO.: <u>47-091-00812.dwg</u>	PLOTTING: <u>JDM/TK</u>

PREPARED BY:

ArchCoal
 Appalachia - Northern Region
 3708 Cranberry Square, Morgantown, WV 26508
 Phone: 304-594-1616 Fax: 304-594-3708

07/31/2015

WW-7
8-30-06



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

API: 47-091-0812 WELL NO.: Waugh #D-79

FARM NAME: Ronald & Freda J. Ludwick

RESPONSIBLE PARTY NAME: ICG Tygart Valley, LLC

COUNTY: Taylor DISTRICT: Knottsville

QUADRANGLE: Grafton

SURFACE OWNER: Ronald L. Ludwick

ROYALTY OWNER: Margaret Carmen Waugh

UTM GPS NORTHING: 4351292.015

UTM GPS EASTING: 588174.665 GPS ELEVATION: 1476.07

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:

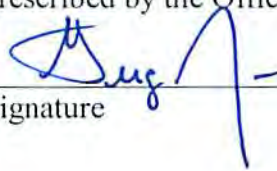
1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

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.

 _____ Power of Attorney _____ June 17, 2015
Signature Title Date

Received
Office of Oil & Gas

JUN 26 2015

07/31/2015