

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Friday, October 14, 2016 WELL WORK PERMIT Vertical / Plugging

ICG TYGART VALLEY, LLC 100 TYGART DR

GRAFTON, WV 26354

Re:

Permit approval for J-1198 47-091-00488-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

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

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

James A. Martin

Chief

Operator's Well Number: J-1198 Farm Name: RIDENOUR, FRANK

U.S. WELL NUMBER: 47-091-00488-00-00

Vertical / Plugging

Date Issued: 10/14/2016

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

1) Date Septemb	, 2	0 16	
2)Operator's		_	
Well No. J-11	98		
3) API Well No	0. 47-91	-	00488

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas/ Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow_X
5)	Location: Elevation 1510 District Knottsville	Watershed Sandy Creek County Taylor Quadrangle Thornton (638)
6)	Well Operator Address ICG Tygart Valley, LLC Address Grafton, WV 26354	7) Designated Agent Charles E. Duckworth Address 100 Tygart Drive 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 manners See Exhibit Nos. 1 and 2 ICG Tygart Va Leer Mine (MSHAI)	lley, LLC 488
	MSHA 101-C Docket No Approximate coal seam top Approximate coal seam botte	o. M-2012-065-C ~ <u>590. 59</u>
work	can commence.	and gas inspector 24 hours before permitted RECEIVED Office of Oil and Gas Date 9-9-16
Work	order approved by inspector Limit	Date SEP 14 2016

WV Department 10/14/2016 Environmental Protection

EXHIBIT NO. 1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, ICG Tygart Valley, LLC will utilize the following method to plug all future wells.

SOLID PLUG METHOD

- a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam.
- c) Circulate through tubing or drill steel an expanding cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

nicocaveD Office of Oil and Gas

SEP 1 4 2016

2701525 p. 100 40 4 64 Environmental Prote<mark>t 0/1</mark>4/2016



EXHIBIT No. 2

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

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

"A Shaft Drillers International Company"

05/26/2016

Mr. Chuck Duckworth
Gas Well & Property Manager
Arch Coal, Inc. – Leer Mine Complex
100 Tygart Drive
Grafton, WV 26354

Mr. Duckworth,

Below is the proposed plugging plan we discussed that can be used on wells similar to the wells we have been plugging for the last few years.

Plugging Plan

- Move to site, rig up, mix mud, drill rathole
- Attempt to clean out well to original total depth (TD):
- Run cement bond log on 4 1/2" casing to determine top of cement
- Set bottom hole cement plug as required by the WV DEP from TD to top of cement determined by the bond log.
- Tag top of bottom hole plug to insure plug is at correct depth. Re-cement if necessary.
- Cut and pull 4 ½" casing from the free point determined by the bond log.
- Clean out wellbore to top of remaining 4 ½" casing
- Run suite of logs to determine casing size, bottom of casing, depth of coal seams, deviation of wellbore and cement bond to casing.
- Cement hole from top of bottom hole plug to a depth within 25' of the bottom of the 8 5/8" casing. \approx 11 19'
- If necessary cut and pull any free casing.
- Perforate, cut, rip or mill any remaining casing at depths determined by MSHA's 101C Petition.

Environmental Protection



- Cement hole from top of intermediate plug to surface using cement required by MSHA's 101C Petition.
- Rig down and set monument as required by WV DEP.

HEGEIVED Office of Oil and Gas

SEP 1 4 2016





IV-35 (Rev 8-81) **RECEIVE**

OIL & GAS DIVISION
DEPT. OF MINES

State of Mest Mirginia Bepartment of Mines Gil und Gas Bivision

Date	
Operator Well No.	
Farm	Ridenour
	47 - 091 - 0488

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1510 Watershed S	andy Creek			
District: Knottsville County Tay	lor .	Quadrangle	Thornto	n
·				
WINDLESS OF THE PROPERTY OF TH				
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Caging	Used in	Tof+	Cement
DESIGNATED AGENT Richard Reddecliff	Casing			fill up Cu. ft.
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Size	DITITING	TI WELL	
SURFACE OWNER Franklin M. Ridenour	20-16 Cond.			
ADDRESS Rt. # 1, Box 397, Grafton, WV 26354	13-10"	30	00	0 sks.
MINERAL RIGHTS OWNER Same as surface	9 5/8			
ADDRESS	8 5/8	1093.85	1093.85	270 sks.
OIL AND GAS INSPECTOR FOR THIS WORK Donald	7			
2604 Crab Apple Lane Ellis ADDRESS Fairmont, WV 26554	5 1/2			
PERMIT ISSUED 4/29/85	4 1/2	5888.30	5888.30	460 sks.
DRITLING COMMENCED 5/20/85	3			
DRILLING COMPLETED 5/29/85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN				
		Dep	tth 5650-0	ao reet
GEOLOGICAL TARGET FORMATION Haverty	Rotary	Dep	th <u>5650-9</u> e Tools	eo reet
GEOLOGICAL TARGET FORMATION Haverty Depth of completed well 5911 feet	Rotary	x/ Cabl	e Tools_	eetreet
Depth of completed well 5911 feet Water strata depth: Fresh60,560, 1020	Rotary	x/ Cabl	e Tools_ :	
Depth of completed well 5911 feet Water strata depth: Fresh50,560, 1029 feet; Coal seam depths: 90-92,440-43	Rotary	x/ Cabl	e Tools_ :	
Depth of completed well 5911 feet Water strata depth: Fresh50,560, 1020 feet; Coal seam depths: 90-92,440-43	Rotary Salt(Is coal	x_/ Cabl feet being min	e Tools_ : ned in the	e area? No
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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Haverty: Perforations: 5793-97 (16 holes) FOAM FRAC; 3rd Elk: Perforations: 5113-17 (16 holes) Fracturing:450 sks. 20/40 sand:500 gal. acid:674 Bbls. fluid.

Benson: Perforations: 4493-96(12 holes)

Fractuirng: 415 sks. 20/40 sand: 500 gal. acid: 552 Bbls. fluid.

Riley: Perforations: 4257-59 (7 holes) 4154-56 (6 holes)

Fracturing: 500 gal. acid: 612 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe XGLS

t=6- + (0.0075 x 5888) + 459.7 = 564 $x=\overline{53.35}$ x 564 =30082 =0.000033 Pf=1350 x 2.72 (0.000)

 $(0.619)(4976)(0.9) = 1350 \times 2.72^{0.09} = 1350 \times 1.09$

Pf= 1472 psi

	COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and q
КВ -	Ground Level	0	10	1" stream @ 50'
	& Clay	10	40	r stream @ 50.
Sand	& shale	40	90	L9 0 5444
Coal		90	92	h" stream @ 560'
Sand	& shale	92	200	1.8
	k shale	200	220	4" stream @ 1020
	& shale	220	300	'-
White	e sand	300	330	Gas ck @ 1609 No show
Sand	& shale	330	440	
Coal		440	443	Gas ck @ 2272 No show
Sand	& shale	443	565	
Sand	& shale	565	818	Gas ck @ 2621 No show
Sand	& shale	818	970	a
Sand	, shale & red rock	970	1135	Gas ck @ 2873 No show
Sand	& shale	1135	1330	
Litt	le Lime	1330	1350	Gas ck @ 3159 No show
Sand	, shale & red rock	1350	1400	
Biq 1		1400	1	Gas ck @ 3350 No show
Inju	n'	1495	1495 1580	
Sand	& shale	1580		Gas ck @ 4139 10/10-1" w/water
	& shale	1835	1835	23,814 cu.ft.
	& shale	2830	2830	1
Rile		4154	4154	Gas ck @ 4295 4/10-1" w/water
	& shale	4259	4259	15,041 cu.ft.
Benso		4493	4493	i
	& shale	4496	4496	Gas ck @ 4453 4/10-1" w/water
3 rd		5113	5113	15,041 cu.ft.
	& Shale	5117	5117	
Have		5793	5793	Ì
	& shale ·	5797	5797	i ·
	2 50.20	3/9/	(3911)	
•		1	T.D.	
		1	Brallier@	
		1	TD.	1
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	•	I		
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	• •	1	1	
		1	i	1

(Attach separate sheets as necessary)

J&J Enterpirses Robert Dahlin-Geologist SEP 1 4 2016

Regulation 2.02(i) provides as follows:

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

WW-4A Revised 6-07

1) Date:	2016					
2) Operator's Well Number J-1198						
3) API Well No	o.: 47 -	91		00488		

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4)	Surface Own	er(s) to be served:	,	5) (a)	Coal Operator		
	(a) Name	Linda O'Connor (1/2)	/	00 0000 000	Name	CoalQuest Development, LLC	Walred
	Address	2324 Flag Run Road			Address	100 Tygart Drive	
		Grafton, West Virginia 26354				Grafton, West Virginia 26354	
	(b) Name	John E. III & Layne Lee (1/2)			(b) Coal Own	ner(s) with Declaration	
	Address	2410 Avenel Avenue			Name		
		Roanoke, Virginia 24015			Address		
	(c) Name				Name		
	Address				Address		
6)	Inspector	Kenneth Greynolds			(c) Coal Less	see with Declaration	
	Address	613 Broad Run Road			Name		
		Jane Lew, WV 26378			Address		
	Telephone	(304) 206-6613					
)				2	

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
By: Charles E. Duckworth
Its: Designated Agent
Address 100 Tygart Drive
Grafton, West Virginia 26354

Telephone (304) 265-9704

Subscribed and sworn before me this_

day of September, 2016

Notary Public
ic State of West Virginia
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 depprivacyoffier@wv.gov.

Notary Fubilic

Notary Fubilic

Selection of Wast Vegicla

Thomas Giregory Mair

SEMMEMBER Avenue, Magustave, WY 25737

My Commission Supplies Department of Mair



ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

September 8, 2016

John E. III & Layne Lee 2410 Avenel Avenue Roanoke, Virginia 24015

Re: Plugging Permit - API # 47-91-00488 - J-1198

Dear Mr. & Mrs. Lee:

As required by the permit process of the WV Department of Environmental Protection – Office of Oil and Gas enclosed please find a copy of the plugging permit application for the above referenced well that ICG Tygart Valley, LLC plans to submit to the WV Department of Environmental Protection, Office of Oil and Gas.

If you have no objection to the plugging permit application, please sign the page titled Surface Owner Waiver and return in the enclosed self-addressed stamped envelope.

If you should have any questions concerning this application please feel free to contact Charles Duckworth at (304) 265-9704 or me at (304) 265-9778 or via email at gnair@archcoal.com.

Sincerely,

Greg Nair

Manager Surface Mine Planning

RECEIVED
Office of Oil and Gas

Enclosures SEP 2 9 2016

WV Department of Environmental Protection

CERTIFIED MAIL NO. 7015 3010 0001 7053 2010 RETURN RECEIPT REQUESTED

WW-4B

API No.	47-91-00488	
Farm Name	Ridenour	
Well No.	J-1198	

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

V	VAIVER
has examined this proposed plugging work order. T	er/ lessee/ of the coal under this well location. The undersigned has no objection to the work proposed to be has complied with all applicable requirements of the West
Date: 9 8 10	CoalQuest Development, LLC By: Greg Nair Power of Attorney

Office of Oil and Gas

SEP 1 4 2016

WV Department of Environmental Protection WW-9 Rev. 5/08

	Page		of	
API Number 47	91	-	00488	
Operator's Well	No. J-1198			

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 Va	alley, LLC	OP Code		
Watershed Sandy Creek		Quadrangle Thornton (638)		
Elevation 1510	_{County} Taylor	District Knott	sville FECEIVED	
Description of anticipated Pit Was		NO PITS	SEP 1 4 2016	
Will a synthetic liner be used in th	ne pit? N/A		WV Department of	
Reuse Off Site	pplication	Number	Environmental Frotect	
Proposed Work For Which Pit Wi Drilling Worko Other	yer X	Swabbing Plugging		
on August 1, 2005, by the Office of provisions of the permit are enfortlaw or regulation can lead to enfort I certify under penalty of application form and all attachments.	of Oil and Gas of the West Virg receable by law. Violations of a recement action. of law that I have personally e ments thereto and that, based eve that the information is tru- rmation, including the possibilit Charles E. Duckworth	nditions of the GENERAL WATER inia Department of Environmental Plany term or condition of the general examined and am familiar with the on my inquiry of those individualse, accurate, and complete. I am a sty of fine of imprisonment.	rotection. I understand that the permit and/or other applicable information submitted on this s immediately responsible for	
	this 8 day ofSept	ember16		
Subscribed and sworn before me to be be before me to be before	day of september 22, 2019	Notory Public Rate of West Virgi Thomas Gregory 329 Webster Avenue, Morganto	nte Ç	



S . . . 4

L	EGEND
Property Boundary	Diversion Control of the Control of
Rond = = = = = = = = = = =	Spring
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches (2
Stream	Waterway \longleftrightarrow
Open Ditch	Cross Drain
Rock 68686	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed 1.50/2	2.0 Prevegetation pH
^	^ F
Lime Tons/acre or to correct to pH _	
Fertilizer (10-20-20 or equivalent)lbs/a	cre (500 lbs minimum)
Mulch Hay Bales Tons/act	re
Seed I	Mixtures
Area I	Area II
Seed Type lbs/acre	Seed Type Ibs/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 applic Photocopied section of involved 7.5' topographic sheet.	cation.
See attached	
Plan Approved by: Short	NECEIVED .
Comments: RECLAIM, RESEAD AND 1	MULCH ISAP Office of Oil and Gas
	SEP 1 4 2016
Title: OIL AND GIS INSPECTOR	Day 9-1 WV Department of
Title: OIC AND GIS INSPECTOR	Date: 9- Favironmental Protection
Field Reviewed? () Yes (_) No



ICG TYGART VALLEY, LLC

100 Tygart Drive, Grafton, West Virginia 26354

September 8, 2016

WV Department of Environmental Protection Office of Oil and Gas $601 - 57^{th}$ Street, S.E. Charleston, West Virginia 25304

To Whom It May Concern:

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

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

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

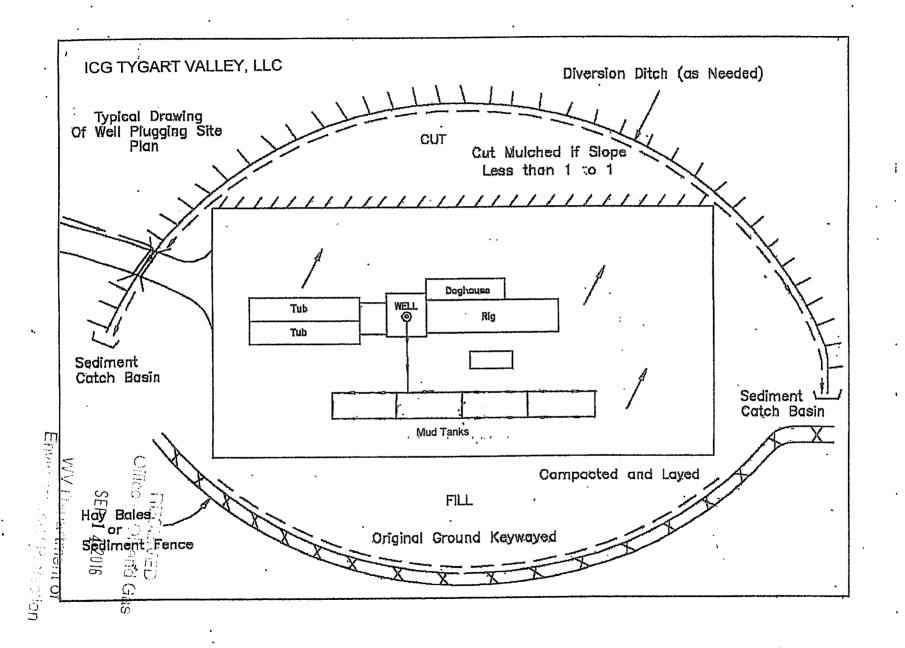
Sincerely.

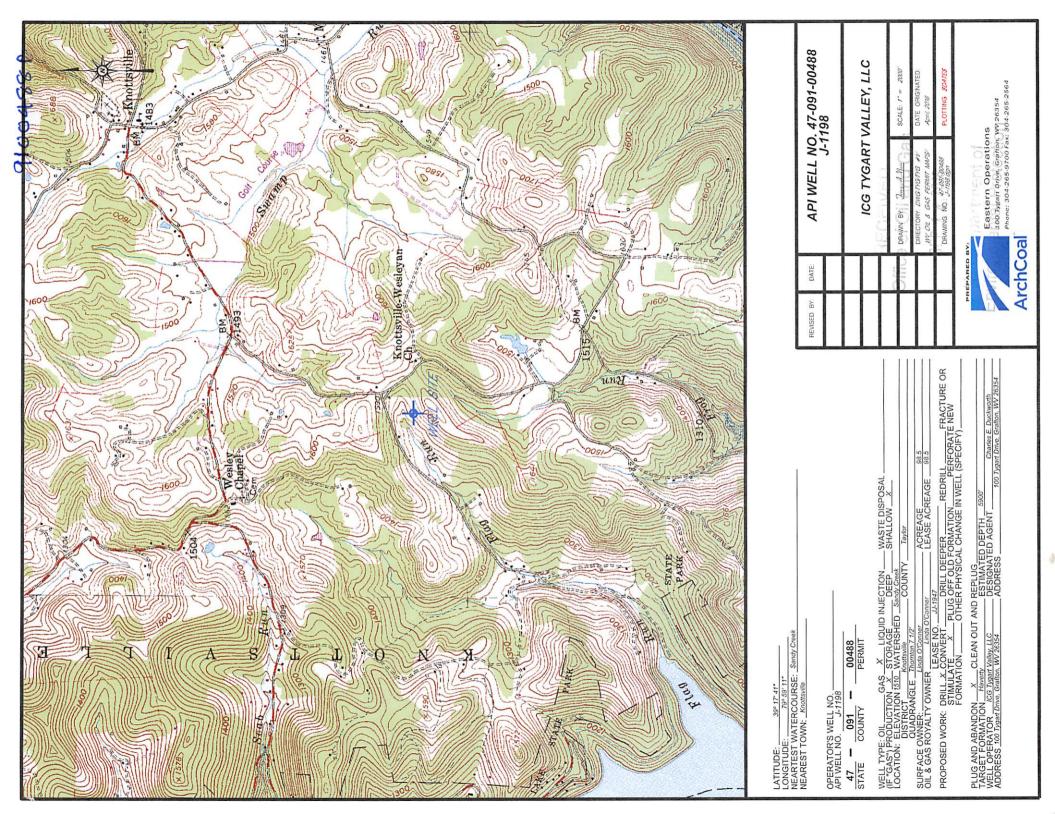
Charles E. Duckworth Designated Agent

Office of Oil and Gas

SEP 1 4 2016

WV Department of Environment of Environment





WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: GPS
API: 47-091- 00488	WELL NO.:
FARM NAME: Ridenour	
RESPONSIBLE PARTY NAME:	ICG Tygart Valley, LLC
COUNTY: Taylor	DISTRICT: Knottsville
	/2); John E. III & Layne Lee (1/2)
	(1/2); John E. III & Layne Lee (1/2)
UTM GPS NORTHING: 434998	4.158
	GPS ELEVATION: 1517.49
above well. The Office of Oil and Gathe following requirements:	5 meters
Real-Ti	me Differential
Mapping Grade GPS: Post	Processed Differential
Real	-Time Differential
I the undersigned, hereby certify this	data is correct to the best of my knowledge and required by law and the regulations issued and Gas Gas.
Duy/-	Power of Attorney September 8, 2016
Signature 3	Title WV DepDatement of Environmental Protection 10/1