

#### 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

April 21, 2014

#### WELL WORK PLUGGING PERMIT

#### Plugging

This permit, API Well Number: 47-9100880, 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 penalities 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

Operator's Well No: HUGNS/LUZADER#1

Farm Name: HUGGINS, DOLORIS & THOMAS

API Well Number: 47-9100880

Permit Type: Plugging
Date Issued: 04/21/2014

#### **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.



WW-4B Rev. 2/01

1) Date February 12	, 2014
2)Operator's	
Well No. Huggins-Luzadde	er#1
3) API Well No. 47-91	- 00880

### 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/ Li	quid injection/ Waste disposal/
	(If "Gas, Production or	Underground storage) Deep/ ShallowX
5)	Location: Elevation 1613	Watershed Rocky Branch of Three Fork Creek
	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	9) Plugging Contractor  Name Coastal Drilling East, LLC
	Address 613 Broad Run Road	Address 130 Meadows Ridge Road
	Jane Lew, WV 26378	Mt. Morris, PA 15349
		Received
		MAR 2 4 2014
		Different Oil and Gue
		V/V Drait of Environ
	ification must be given to the distric k can commence.	ct oil and gas inspector 24 hours before permitted
	2	

#### 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".

Received

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Office of the and Gas

#### BACKGROUND INFORMATION

From well records provided by the WV DEP- Office of Oil and Gas, it appears that the above referenced well was drilled and completed in 1993. The WR-35 indicates that 1020.00 feet of 8 5/8" casing was set and cemented with 235 sacks of cement. This amount of cement should have circulated to the surface.

The well record also indicates that 5263.00 feet of 4 ½ " casing was set with 515 sacks of cement. Since, so much cement was used and hydrostatic pressure would have been a concern, it is reasonable to assume that a lighter weight cement than Class A Portland was used. It was, and still is common to use cement with yields above 2.00 cubic feet per sack to cement production strings set to this depth. It then follows that the top of cement (TOC) around the 4 ½" casing is probably above the 8 5/8" casing seat. Therefore, when you free-point or bond log the 4 ½" casing, the subsequent 4 ½" casing cut will probably be above the 8 5/8" casing seat. This could be problematic and OO&G wants to make you aware of this possibility.

If the above scenario becomes evident and changes to the plugging procedure are needed, notify Kenneth Greynolds, Oil and Gas Inspector by phone at 304-206-6613.

Jeff McLaughlin, 04/21/2014

WV DEP, Office of Oil and Gas

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#### EXHIBIT NO. 2

#### 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 34" 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.
- SEE A 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 ½" is 3,191'), perforate/cut 4 ½" casing every 100' from 5,137' to 3,291'. Total shots needed 120.
  - Day 5 Trip in hole (T.I.H) with 2 3/8" drill pipe to T.D. Cement hole from 5,239' back to 3,191' with 160 sacks of Class A Cement with a gas blocker additive. Circulate hole, SULE PERFORMTIONS ARE CONSERS condition mud, T.O.H.
  - Day 6 T.I.H with 3 34" bit to tag top of cement plug. 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 3,185. Lay down 2 3/8" TO C BONDED TO 41/2" WILL PROMOK ABOVE 85/8" CASHG SENT.
  - Day 7 Continue to lay down 2 3/8" drill pipe. Rig up 4 ½" casing spear. Hook to 4 ½" casing at the surface, release slips from wellhead and attempt work 4 1/2" casing free to 3,185'. 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 ½" casing at 3,185".
  - Day 9 Continue to clean hole with 7 7/8" bit to top of remaining 4 ½" casing at 3,185'. 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 3,191' 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. Received
  - 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 MAR 2 4 2014 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 guts in 8 5/8" Gas casing. Lay down drill collars and fishing tools. Prepare to cement hole to surface. 04/25/2014

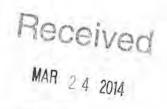


ABOUT PERFS

#### EXHIBIT NO. 2

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



WH-33. 11-Jun-93 API # 47- 91-00880 State of West Virginia Division of Environmental Protection Section of Oil and Gas Well Operator's Report of Well Work HUGGINS, DOLORIS & THOMAS Operator Well No.: HUGNS/LUZADER#1 Parm name: Elevation: 1,614.00 Quadrangle: THORNTON . LOCATION: District: KNOTTSVILLE County: TAYLOR
Latitude: 4700 Feet South of 39 Deg. 20Min. Sec.
Longitude 2125 Feet West of 79 Deg. 57 Min. 30 Sec. Company: PETROLEUM DEVELOPMENT COR |Cement Casing P. O. BOX 26 BRIDGEPORT, WV 26330-0026 Used in Tubing Drilling | in Well Cu. Ft. Agent: ERIC R. STEARNS Size Inspector: PHILLIP TRACY Permit Issued: 0 06/17/93 Well work Commenced: (Well work Completed: Verbal Plugging Permission granted on: Rotary x Cable Total Depth (feet) Fresh water depths (It) 11 3/4" 22' 06/26/93 8 5/8" 1020' 10201 235 sks RIG 5326' 4 1/2" 52631 52631 515 skn Salt water depths (ft) Is coal being mined in area (Y/N)7 N Coal Depths (ft): 35-40; 111-115; 585-59 OPEN FLOW DATA Producing formation Elk/Branco Pay zone depth (ft\(\frac{1}{2}\)\frac{17}{2}\)\frac{166}{2}\]

Gas: Initial open flow 26 MCF/d Oil: Initial open flow 0 Bbl/Final open flow 474 MCF/d Final open flow 0 Bbl/Time of open flow Detween initial and final tests 4 Hout Static rock Pressure 550 psig (surface pressure) after 72 Hour Second producing formation Fruith Sand Pay zone depth (ft) 2517.5-22.

Gas: Initial open flow KCF/d Oil: Initial open flow Bb1/
Final open flowco-mingled HCF/d Final open flow Bb1/
Time of open flow between initial and final tests Hour THE FOLLOWING.

ATHE FOLLOWING.

ALATING, PHYSICAL

TAILED GEOLOGICAL R.

THE WELLBORE.

ST: PETROLEUM DEVELOPMENT CORE

By: Kriv R. Schripp
Date: July 22, 7007 Static rock Pressure\_ NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELLOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE. 56 Reviewed Recorded.

#### HUCGINS - LUZZADER #1

STACE	FORMATION	PERFS "	80/100 SKS	20/40 SKS	ACID	N2 (HCF)
lst	Elk Benson	7 @(5164'-5166') 3 @(5074'-5075') 3 @(4533'-4534')	100	800	500	91
2nd	Fourth Sand	13 @(2519'-2522')	50	400	500	52

		WELL	100	
FORMATION		TOP FEET E	OTTOM FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - CL		0		77.01
sand, shale, RR			10	White the state of the state of the state of
Little Line		1417	1417	1/2" stream H20 @ 400'
sand, shale		1421	1421	Coal 35'-40', 111'-115'
Big Line		. 1457	1457	Coal 585'-590'
sand, shale		1567	1567	
Big Injun		1569	1569 1642	gas chk @ 1575' no show
sand, shale		1642		The state of the s
Weir		1754	1754 1793	gas chk @ 1731' no show
sand, shale		1793	1938	
Cantz		1938	1952	
sand, shale		1952	1782	
50 ft		1782	2032	
sand, shale		2032	2078	Can have a server on their
30 ft		2078	2114	gas chk @ 2044' no show
sand, shale		2114	2308	gas chk @ 2107' no show
4th		2308	2520	gas chk @ 2293' no show
sand, shale		2520	2536	ges chk @ 2448' no show
5th		2536	2578	
sand, shale		2578	2584	
Bayard		2584	2611 -	
sand, shale		2611	2711	LL 0 3/03/
Elizabeth		2711	2720	gas chk @ 2697' no show
sand, shale	9	2720	2901	
Speachly		2901	3328	
sand, shale		3328	3360	
Balltown		3360	3760	ner abl 0 16051 1
sand, shale		3760	3803	gas chk @ 3508' no show
bradford		3803	3923	
sand, shale		3923	4195	ges chk @ 4007' no show
Riley		4195	4445	pan cht @ 4300 2 do 15 to
sand, shale		4445	4498	gas chk @ 4380' 2/10 -1"w/water
Benyon		4498	4563	gas chk @ 4473' 6/10 -1"w/water
sand, shale		4563	4626	gas chk @ 4567' 2/10 -1-w/water
1st Elk		4626	4778	Pra cur 6 and 5/10 -T-A/AUCOL
sand, shale		4778	4878	
2nd Elk		4878	4974	gas chk @ 5004' no show
sand, shale		4974	5040	gas chk @ 5098' no show
3rd Elk		5040	5195	gas chi e store no show

91-0880-1

#### HUGGINS - LUZZADER #1

STAGE	FORMATION	PERFS	80/10 SKS	•	ACID GAL	N2 (MCF)
lst	Elk Benson	7 @(5164'-5166') 3 @(5074'-5075') 3 @(4533'-4534')	100	800	500	<b>91</b>
2nd	Fourth Sand	13 @(2519'-2522')	50	400	500	52
		WELL LO	G	REMARKS:	topecu	C CAT TO
FORMATIC	N	TOP FEET BOTTOM	FEET	WATER, COA		
KB - GL		0	10			
sand, sh	nale, RR		417	1/2" strea	am H2O	@ 400'
Little I			421	Coal 35'-4	40'. 11	11'-115'
sand, sh	nale	1421 14	457	Coal 585'		
Big Lime	•	. 1457 1	567			
sand, sh	nale	1567 1	569	gas chk @	1575'	no show
Big Inju	ın	1569 16	542	•		
sand, sh	nale		754 ·	gas chk @	1731'	no show
Weir		1754 17	793	•		
sand, sh	nale		938	•		
Gantz			952			
sand, sh	nale		782	•		
50 ft	_		032			
sand, sh	nale		078	gas chk @		
30 ft	_		L14	gas chk @		
sand, sh	rate		308	gas chk @		
4th	1.		520	gas chk @	2448'	no show
sand, sh	ISTE		536	•		
5th	.a1a		578			
sand, sh	ISTE		584 511			
Bayard sand, sh	val a		511		06071	1
Elizabet			711 720	gas chk @	2031.	no snow
sand, sh						
Speechly			901 328			
sand, sh			360			
Balltown			760	gas chk @	35081	no chow
sand, sh	•		303	gas clik @	3300	no snow
Bradford			923		•	
sand, sh			195	gas chk @	40071	no show
Riley	-		445			2/10 -1"w/water
sand, sh	nale		498	8		-,,
Benson			563	gas chk @	4473'	6/10 -1"w/water
sand, sh	nale		526			2/10 -1"w/water
lst Elk	_		778	_		•
sand, sh	nale		<b>378</b>			
2nd E1k	•		974	gas chk @		
sand, sh	nale		040	gas chk @		
3rd Elk			L95	gas chk @		no show
			348	Drillers 7	TD CT	
		53	326	Logger TD	•-	<b>7.10.6 4.11</b>
				gas chk @	colla	# 6/10 Received

MAR 2 4 2014

WW-4A Revised 6-07

1) Date: F	ebruary 12, 2014	
Operator's We Huggins-Luzadder #1	ell Number	
3) API Well No.:	47 - 91	 00880

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

<ol><li>Surface Ow</li></ol>	mor(c) co oc cor rea.	3)	(a) Coal Operato	•	
(a) Name	Delores Gail Huggins	W	Name	CoalQuest Development, LLC	W
Address	2659 Ridgedale Road		Address	2708 Cranberry Square	
	Morgantown, West Virginia	a 26508		Morgantown, West Virginia 26508	
(b) Name			(b) Coal Ov	wner(s) with Declaration	
Address			Name		
			Address		
(c) Name			Name		
Address			Address		
N.T.	Wassell Consults		- () () -11		
3) Inspector	Kenneth Greynolds			ssee with Declaration	
Address	613 Broad Run Road	6270	_ Name	·	
m l l	Jane Lew, West Virginia 2	03/8	Address	4-	
Telephone	(304) 206-6613		_		
(1) The well (2) The	application to Plug and A its and the plugging work plat (surveyor's map) show you received these documen	bandon a Well on lorder; and ving the well locations is that you have right	Form WW-4B, which on on Form WW-6.	eived this Form and the follow a sets out the parties involved in t ication which are summarized in the in	the work and describes the
(1) The well (2) The The reason However, y Take notic accompany Protection, the Applic	application to Plug and A its and the plugging work plat (surveyor's map) show a you received these documen you are not required to take an e that under Chapter 22-6 of thing documents for a permit to with respect to the well at the	bandon a Well on lorder; and ving the well location is is that you have rig y action at all.  the West Virginia Coop plug and abandon a le location described of mailed by registered of mailed by registered	Form WW-4B, which on on Form WW-6. ghts regarding the appli de, the undersigned wel well with the Chief of t on the attached Applicat for certified mail or de	ı sets out the parties involved in t	the work and describes the structions on the reverses side his Notice and Application and a Department of Environmenta WW-6. Copies of this Notice
(1) The well (2) The The reason However, y Take notic accompany Protection, the Applic	application to Plug and A its and the plugging work plat (surveyor's map) show you received these document you are not required to take an e that under Chapter 22-6 of wing documents for a permit to with respect to the well at thation, and the plat have been	bandon a Well on lorder; and ving the well location is is that you have rig y action at all.  the West Virginia Coop plug and abandon a le location described of mailed by registered of mailed by registered	Form WW-4B, which on on Form WW-6. ghts regarding the appli de, the undersigned wel well with the Chief of t on the attached Applicat for certified mail or de	n sets out the parties involved in the in incation which are summarized in the in a operator proposes to file or has filed the Office of Oil and Gas, West Virginization and depicted on the attached Form	structions on the reverses side his Notice and Application and Department of Environmenta WW-6, Copies of this Notice
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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 <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

#### **SURFACE OWNER WAIVER**

Operator's Well Number

Hugg	ins-L	uza	dder	#1
– 33				

#### 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 57th 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.

<u>VOLUNTARY STATEMENT OF NO OBJECTION</u>	MAH 2 4 2014
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
I A D A D CAME DI LA ALL I Alem Joseph Demons UNIV AA and UUU AD and a	

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 have into objection to a permit being issued on those materials. FOR EXECUTION BY A CORPORATION, FOR EXECUTION BY A NATURAL PERSON

Dolore G. Leggin Date 3/11/14 Name		
Signature By Its		Date
	Signature	04/25/2014

9100880P

API No. 47-91-00880

Farm Name Huggins-Luzadder et al

Well No. Huggins-Luzadder #1

#### 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.

	WAIVER
has examined this proposed pluggin	tor X / owner/ lessee/ of the coal under this well location by work order. The undersigned has no objection to the work proposed to be well operator has complied with all applicable requirements of the West gulations.
Date: 2 /18 /14	CoalQuest Development, LLC
	By: Greg Nair
	Its Power of Attorney

Received

MAR 9 4 2014

Office of Oil and Gas WV Dept. of Environmental Protection

#### POWER OF ATTORNEY

## COALQUEST DEVELOPMENT LLC TO GREG NAIR

Dated: January 1, 2014

Expires: December 31, 2014

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.

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, 2014, 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:

COALQUEST DEVELOPMENT LLC

olene J. Mermis

Assistant Secretary of the Company

James E. Florczak

Vice President and Treasurer

MAR 2 4 2014

	Page		of	
Number 47	- 91	-	00880	
Number 47 - erator's Well N		-		_

### 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 E	Branch of Three Fork Creek	_ Quadrangle	e Thornton (638)
Elevation 1613	County Taylor		<sub>District</sub> Knottsville
Description of antici	pated Pit Waste: N/A		
Will a synthetic line	r be used in the pit? N/A.		
Proposed Disposal N	Method For Treated Pit Wastes:		
_	Land Application	20 m 2 m	
_	Underground Injection ( UIC Permit	Number	
_	Reuse (at API Number		
X	Off Site Dispposal (Supply form WW Other (Explain Tanks - See attached		sal location)
Proposed Work For	Which Pit Will Be Used:		
repeated mentales	Drilling	Swabl	bbing
	Workover		
_	Other (Explain		
on August 1, 2005, I provisions of the pe law or regulation car I certify un application form an obtaining the inform penalties for submitt Company Official S	by the Office of Oil and Gas of the West Virginia are enforceable by law. Violations of a lead to enforcement action.  Inder penalty of law that I have personally and all attachments thereto and that, based mation, I believe that the information is tring false information, including the possibil	ginia Departme any term or co examined and on my inqui- ue, accurate, a	the GENERAL WATER POLLUTION PERMIT issuent of Environmental Protection. I understand that condition of the general permit and/or other applicant and am familiar with the information submitted on airy of those individuals immediately responsible and complete. I am aware that there are significantly imprisonment.  RECEIVED  MAR 2 4 2014
Subscribed and swo	rn before me this 18 day of Fet	oruary	Office of Oil and Gas  WMI4ept. of Environmental Protection
Thom	A	·	Notory Public
My commission exp	ires DECEMIZER ZZ, ZOI9		Notary Public Unite of West Virginis Thomas Gregory Nair Whoter Avenue, Morganiown, WV 28801

		LEGEND		
Property Boundary	-	Diversion weller to the total total to the total total to the total total total to the total tota	III III IIII	
Road = = = = =	=====	Spring O		
Existing Fence — X —	- × — × —	Wet Spot		
Planned Fence /	_/_/_	Drain Pipe with size in inches	⑥▶	
Stream	7	₩aterway ← ← ←	$\rightarrow \leftarrow \leftarrow \leftarrow$	
Open Ditch			11111111	
Rock 685886		Artificial Filter Strip XXXXX	XXXXXXXXXXX	
North N	~	Pit: cut walls		
Buildings		Pit: compacted fill walls		
Water wells		Area for Land Application of Pit	Waste	
Drill site		E TE		
		4.00		
Proposed Revegetation Treatm	ent: Acres Disturbed	1.00 Prevegetation pH		
Lime3	Tons/acre or to correct	to pH		
Fertilizer (10-20-20 o	r aquivalent) 500	lbs/acre (500 lbs minimum)		
	loc			
MulchHay Ba	165	Cons/acre		
		Seed Mixtures		
Area	ıI	Area I	I	
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,p: Photocopied section of involve		d application.		
See attached				
Plan Approved by:	much Skeyn	ocal		
			551816	
Comments:	RESTOR + M	ULCH AS SOUR AS PL	Received	
Title: OIL + CAS	INSPECTON	Date: 3-21-10	MAR 2 4 2014	
Field Reviewed? (	) Yes (	× )No	Office of Oil and Gas WV Dept. of Environmental Protect 04/25/2014	



### ICG TYGART VALLEY, LLC

2708 Cranberry Square, Morgantown, West Virginia 26508

February 12, 2014

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.

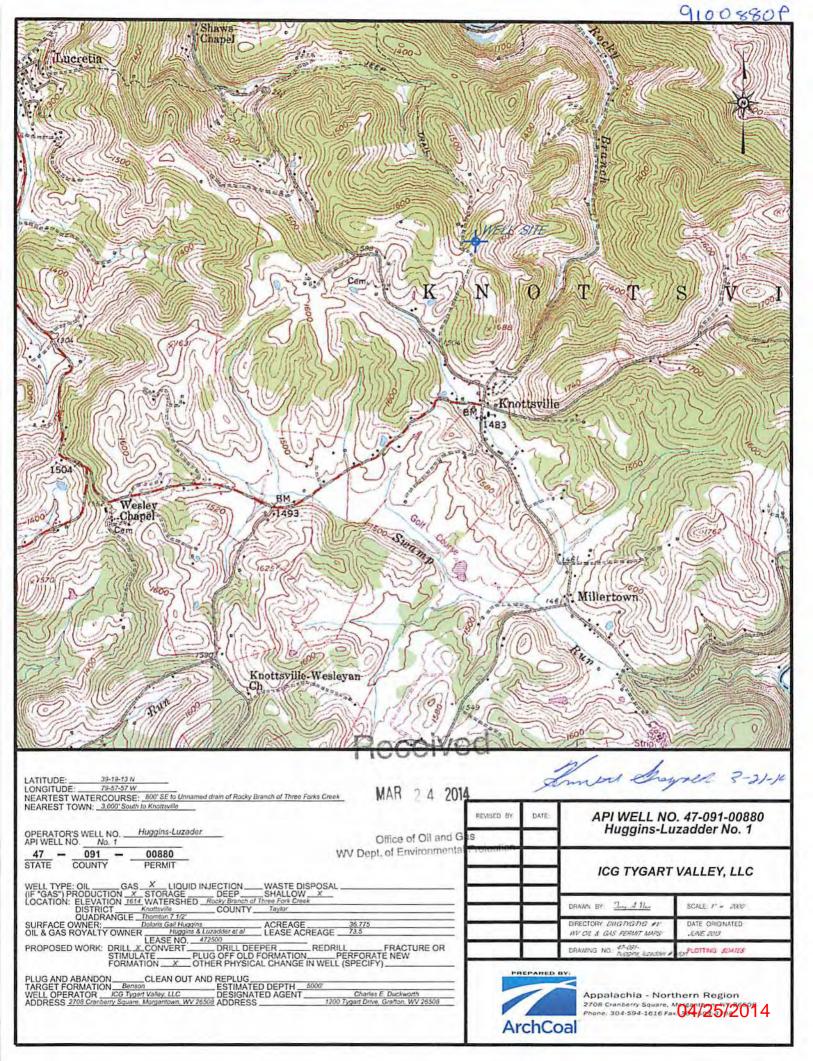
Sincerely,

Charles E. Duckworth Designated Agent

Received

MAR 2 4 2014

Office of Oil and Gas WV Dept. of Environmental Protection



WW-7 8-30-06



# West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION	ON FORM: GI	PS	
API: 47-091-0880	WELL NO.	WELL NO.: Huggins-Luzadder #1	
FARM NAME: Huggins-Luzadder #1			
RESPONSIBLE PARTY NAME: ICG T		LLC	
COUNTY: Taylor	DISTRICT: K	nottsville	
QUADRANGLE: Thornton			
SURFACE OWNER: Delores Gail Hug	gins		
ROYALTY OWNER: Huggins-Luzad	der et al		
UTM GPS NORTHING: 4352863.059			
UTM GPS EASTING: 589146.890	GPS ELEV	ATION: 1613.534	
above well. The Office of Oil and Gas will no the following requirements:  1. Datum: NAD 1983, Zone: 17 Nort height above mean sea level (MSL 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method:	h, Coordinate Units:		
<ol> <li>Data Collection Method: Survey grade GPSx: Post Processed D</li> </ol>	Differential	rieceived	
Real-Time Diffe		MAR 2 4 2014	
Mapping Grade GPS: Post Processe		Office of Oil and Gas	
4. Letter size copy of the topograph I the undersigned, hereby certify this data is complete and shows all the information required prescribed by the Office of Oil and Gas.  Attorn	ny map showing the	WV Dept. of Environmental Protection e well location. my knowledge and	
Signature Signature	ioj ili laot	A Section & Control of the	