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

March 03, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9100168, issued to ICG TYGART VALLEY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal 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
Chief

Operator's Well No: 0
Farm Name: WOLFE, IRIS
API Well Number: 47-9100168
Permit Type: Plugging
Date Issued: 03/03/2015

Promoting a healthy environment.

9100168P

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.

9100168P

WW-4B
Rev. 2/01

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

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil _____/ Gas _____/ Liquid injection _____/ Waste disposal _____/
(If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1667 Watershed Rocky Branch
District Knottsville County Taylor Quadrangle Thornton (638)

6) Well Operator ICG Tygart Valley, LLC
Address 2708 Cranberry Square
Morgantown, WV 26508

7) Designated Agent Charles E. Duckworth
Address 1200 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 manner of plugging this well is as follows:

SEE PLUGGING PLAN

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

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Work order approved by inspector Kenneth Greynolds Date 2-6-15

9100168P

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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EXHIBIT NO. 2

RLC 2-18-15

CLEANOUT/PLUGGING PLAN

- **Day 1** - Move to site, rig up, mix mud, drill rathole.
- **Day 2** - Finish drilling rathole, start picking up 2 3/8" drill pipe and cleanout well with a 3 ¾" 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 ½" 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 ABOVE THE 8 5/8" CASING POINT). CUT 4 1/2" CASING ABOVE THE TOC (TOP OF CEMENT) AND REMOVE FROM WELLBORE.
- **Day 5** - Trip in hole (T.I.H) with 2 3/8" drill pipe to T.D. Cement hole from 4690' 2642' with 160 sacks of Class A Cement with a gas blocker additive. Circulate hole, condition mud, T.O.H.
- **Day 6** - MAKE SURE 4 1/2" CASING IS REMOVED FROM 8 5/8" CASING POINT (≈ 1100') TO SURFACE.
- **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 ½" casing free to 1100'. Lay down 4 ½" casing. THIS STEP SHOULD ALREADY HAVE BEEN DONE.
- **Day 8** - Rig up 7 7/8" bit. Pick up drill collars and drill pipe, start cleaning hole to top of remaining 4 ½" casing at 1100'.
- **Day 9** - Continue to clean hole with 7 7/8" bit to top of remaining 4 ½" casing at 1100'. Circulate hole. T.O.H with 7 7/8" bit. T.I.H with open ended 3 ½" drill pipe.
- **Day 10** - Cement hole from 2642' to within 50' of bottom of 8 5/8" casing at 1,031' with 1,000 gallons of mud flush and ~~500~~ 5 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.

  * RECALCULATE 5KS OF CEMENT.
- **Day 11** - T.I.H with 8 5/8" pressure pipe cutter. Cut 8 5/8" casing every 100' from 891' to 381' (6 cuts total). T.O.H with 8 5/8" cutter. T.I.H with 8 5/8" section mill. Section mill 30' window in 8 5/8" casing through coal seam.
- **Day 12** - Continue to section mill 8 5/8" casing through coal seam.
- **Day 13** – Finish section milling 8 5/8" casing. T.O.H with 8 5/8" section mill. T.I.H with 7 7/8" bit.
- **Day 14** – Clean hole with 7 7/8" bit to top of cement plug at 1,031'. Circulate hole at 1,031'. T.O.H with 7 7/8" bit. Run caliper log to verify window and cuts in 8 5/8" casing. Lay down drill collars and fishing tools. Prepare to cement hole to surface.

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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.

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/ DOCUMENT PROVIDED BY OO&G

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WR-35 RECEIVED
W.V. Division of Environmental Protection
Permitting
Office of Oil & Gas

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

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

Well Operator's Report of Well Work

Farm name: WOLFE, IRIS Operator Well No.: CNGP 6021

LOCATION: Elevation: 1,667.00 Quadrangle: THORNTON

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

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

Agent: RODNEY J. BIGGS

Inspector: PHILLIP TRACY
Permit Issued: 03/28/95
Well work Commenced: 04/19/95
Well work Completed: 04/26/95
Verbal Plugging
Permission granted on: _____
Rotary ____ Cable ____ Rig
Total Depth (feet) 1770'-Bridge Plug
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? ___
Coal Depths (ft): _____

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

OPEN FLOW DATA

Producing formation Keener Pay zone depth (ft) 1596-1606
Gas: Initial open flow ____ MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow * 531 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 460 psig (surface pressure) after 24 Hours
* Did not commingle with existing production
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CNG PRODUCING COMPANY

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

TAY 0168W

.0

DOCUMENT PROVIDED BY OO&G

9100168P

Set solid bridge plug @ 1770'

Perforated Keener Sand 1596-1606, 30 holes

4/24/95

Nowsco Water Fraced:

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

Turned Well Back In Line - 4/27/95

/ Document Provided by O O & G.

91001681

1900' (579.13M)

LATITUDE 39° 20'

LONGITUDE 79° 57' 30"

5910' (1801.39M)

D. LUZADDER 75a

24" W.O. Stump

I.M. WOLFE 32a

S 61° 00' E 2429.00' (740.36M)

S 21° 25' E 1274.74' (388.54M)

M.L. WILAND 76.3a

N 28° E 2078'

12a

A.R. AUSTIN 46.1a

Dogwood

12552
El.-1667'

S 89° 41' W
1659.05' (505.68M)

Rocky Branch

9/11

W.C. & P. NESTOR 3.1a

CECIL O. WOLFE
75429-99a

9/12

46

IRIS M. WOLFE, Surf.
86.45a

C.A. LUNDY

Branch of Swamp Run

N 78° W 1383

A.R. AUSTIN 47.7a

R.D. & S.F. WOLFE

P.D. & M.E. POLING 4a

CEM.

W.R. & V.B. MICK

KNOTTSVILLE W. VA.

910 800 808 798 501 2460' 6021'

Permanent Partial Plug Back & Frac Licensed Back. Jamie 3/29/95

Minimum Error of Closure 1' in 200'

Source of Elevation B.M. U.S.G.S. Monument, Intersection

W. Va. Rt. 9 & 9/12 El. - 1483, on U.S.G.S. Map Thornton, W.Va. 1958

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location ☒
Drill Deeper ☐
Abandonment ☐

Map Sheet 1132-D-2

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

Company CNG Producing
Address RR2 Box 678, Lanesville Cross Rd., Bridgeport, W.V. 26330.
Farm CECIL O. WOLFE (Iris M. Wolfe, Surf.)
Tract Acres 99 Lease No. 75429
Well (Farm) No. Serial No. 12552
Elevation (Spirit Level) 1667'
Quadrangle Thornton, W.Va. 7 1/2 - 1958
County Taylor District Knottsville
Engineer Michael S. Bennett
Engineer's Registration No. 5525
File No. Drawing No.
Date 8-25-78 Scale 1" = 500'

STATE OF WEST VIRGINIA
Division of Environmental Protection
Office of Oil & Gas
Nitro, W.V.

WELL LOCATION MAP

API Well No. 47-091-00168-W

Permanent Partial Plug Back.

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

FORM 1328

7762

9100168P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAR - 5 1979

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil ____
Cable ____ Gas X
Recycling ____ Comb. ____
Water Flood ____ Storage ____
Disposal ____ ____ (Kind)

Quadrangle Thornton

Permit No. TAY-168
47-091

Company Consolidated Gas Supply Corp.
Address 445 W. Main St., Clarksburg, WV
Farm Cecil O. Wolfe Acres 99
Location (waters) Rocky Branch
Well No. 12552 Elev. 1667'
District Knottsville County Taylor
The surface of tract is owned in fee by
Iris M. Wolfe
Address Rt. 1, Box 473, Grafton, WV 26354
Mineral rights are owned by Walter H. Thomas et al
Address Rt. 1, Thornton, WV 26440
Drilling Commenced October 24, 1978
Drilling Completed October 30, 1978
Initial open flow 43M cu. ft. ____ bbls.
Final production 146.6M cu. ft. per day ____ bbls.
Well open 1½ hrs. before test 1180# RP. 24 day
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
13 3/4"	374'	374'	To surface
9 5/8			
8 5/8	1055'	1055'	To surface
7			
5 1/2			
4 1/2	3700'	3700'	520 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.

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

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

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

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(over)

* Indicates Electric Log tops in the remarks section.

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

Date March 1, 19 78

APPROVED Consolidated Gas Supply Corp. Owner

By J. E. Dayne Manager of Drilling

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Return |

4709100168

P - Archived - 230138	W - Archived - 230139	W - Archived - 230140	W - Archived - 230141
W - Archived - 230142			

owncmp_long2

Owner Completion

API	EPISODE	SUFFIX	CMP_DAY	CMP_MONTH	CMP_YEAR	CMP_STATUS	FARM	COMPNO	MINERAL	OPERATOR	SPUD_DAY	SPUD_MONTH	SPUD_YEAR	ELEV	DATUM
4709100168	1	New Locati	10		1978	Completed	C O Wolfe	12552		Consolidated Gas Supply Corp.				1667	G
4709100168	2	Worked Ove	26	4	1995	Completed	Cecil O Wolfe	12552		CNG Producing Co.	19	4	1995	1667	G

loc_long1

Location

API	COUNTY	PERMIT	DISTRICT	QUAD	SECTION	LAT_DEG	LAT_MIN	MILES_S	LONG_DEG	LONG_MIN	MILES_W	S_QUAD	S_LAT_DEG	S_LAT_MIN	S_MILES_S	S_LONG_DEG	S_LONG_MIN	S
4709100168	Taylor	168	Knottsville	Thornton SW		39	20	1.12	79	55	2.57	638	39	20	1	79	57	0

cst_long0

Completion Stage is Empty

str_long14

Stratigraphy

API	SUFFIX	FM_Q	DEPTH_FEET	DEPTH_Q	THICKNESS_FEET	THICKNESS_Q	ELEV_OF_DATUM	TYPE_OF_DATUM	STRAT_LONG	STRAT_RANK	STRAT_OCCUR	STRAT_SET_NAME	STRA
4709100168	O		755		5		1667	G	unidentified coal	0	0	MCCK & up	01
4709100168	O		1464		12		1667	G	Little Lime	4	0	MCCK & up	03
4709100168	O		1506		190		1667	G	Greenbrier Group	5	0	GRBR/INJN	03
4709100168	O		1506		96		1667	G	Big Lime	5	0	GRBR/INJN	03
4709100168	O		1602		94		1667	G	Big Injun (Greenbrier)	6	0	GRBR/INJN	04
4709100168	O		2010		4		1667	G	Berea Sandstone	9	0	POCN	05
4709100168	O		2092		75		1667	G	Fifty-foot	10	0	CSKL	06
4709100168	O		2232		27		1667	G	Thirty-foot	10	0	CSKL	06
4709100168	O		2815		36		1667	G	Elizabeth	15	0	CMNG	99
4709100168	O		2972		12		1667	G	Warren First	15	0	CMNG	99
4709100168	O		3346		152		1667	G	Balltown	16	0	CMNG	99
4709100168	O		3782		106		1667	G	Bradford	17	0	CMNG	99
4709100168	O		4216		177		1667	G	Riley	17	0	CMNG	99
4709100168	O		4532		5		1667	G	Benson	18	0	CMNG	99

pay_long4

Pay

API	EPISODE	ACTIVITY	PRODUCT	TOP PFT	BOTTOM PFB	BEFORE	AFTER	OILBEFORE	OILAFTER	WTRQNTY
4709100168	1	P		0	3496	433	0	0		
4709100168	2	P		1596	355 1606	355	0	531		
4709100168	1	W			50	0			0	
4709100168	1	W			550	0			0	

wtr_long0

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9100168P

9100168P

WW-4A
Revised 6-07

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

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

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

4) Surface Owner(s) to be served:
(a) Name: Elva G. Wolfe ✓
Address: 2741 Curve Bridge Road
Grafton, West Virginia 26354
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name: CoalQuest Development, LLC ✓
Address: 2708 Cranberry Square
Morgantown, West Virginia 26508
(b) Coal Owner(s) with Declaration
Name
Address
Name
Address
(c) Coal Lessee with Declaration
Name
Address

6) Inspector: Kenneth Greynolds
Address: 613 Broad Run Road
Jane Lew, WV 26378
Telephone: (304) 206-6613

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

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

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

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: ICG Tygart Valley, LLC
By: Charles E. Duckworth
Its: Designated Agent
Address: 2708 Cranberry Square
Morgantown, West Virginia 26508
Telephone: (304) 594-1616

Subscribed and sworn before me this 16 day of February, 2015
Thomas Gregory Nair
Notary Public
My Commission Expires December 22, 2019

Official Seal
Notary Public
State of West Virginia
Thomas Gregory Nair
328 Webster Avenue, Morgantown, WV 26501
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.

9100168 P

SURFACE OWNER WAIVER

Operator's Well Number CNGP - 6021 (47-091-00168)

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 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.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

X Elva G. Hoffe Date 2-13-15
Signature

FOR EXECUTION BY A CORPORATION,

Name
By
Its
Date

Signature Date

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CWD

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WW-4B

API No. 47-91-00168
Farm Name Iris Wolfe
Well No. CNGP - 6021

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

The undersigned coal operator X / owner _____/ lessee _____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 2/16/15

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

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WW-9
Rev. 5/08

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

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name ICG Tygart Valley, LLC OP Code _____

Watershed Rocky Branch Quadrangle Thornton (638)

Elevation 1667 County Taylor District Knottsville

Description of anticipated Pit Waste: N/A

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

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number_____)
_____ Reuse (at API Number_____)
_____ Off Site Dispposal (Supply form WW-9 for disposal location)
X Other (Explain Tanks - See attached letter

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover X Plugging
_____ Other (Explain_____

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 _____ 16 FEB 15

Company Official (Typed Name) Charles E. Duckworth

Company Official Title Designated Agent

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WV Department of
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Subscribed and sworn before me this 16 day of February, 20 15

Thomas Gregory Nair Notory Public

My commission expires December 22, 2019

Official Seal
Notary Public
State of West Virginia
Thomas Gregory Nair
329 Webster Avenue, Morgantown, WV 26501
My Commission Expires December 22, 2019

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Form WW-9

Operator's Well No. CNGP - 6021

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells
Drill site

Diversion
Spring
Wet Spot
Drain Pipe with size in inches
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 1.50/2.0 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch Hay Bales Tons/acre

Seed Mixtures

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

Attach:
Drawing(s) of road, location,pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

See attached

Plan Approved by: [signature]

Comments: RECLAIM, RESEED & MULCH ASAP

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FEB 20 2015
WV Department of
Environmental Protection

Title: OIL & GAS INSPECTOR Date: 2-18-15

Field Reviewed? ( ) Yes (✓) No

9100168P

A Subsidiary of

ArchCoal

ICG TYGART VALLEY, LLC

2708 Cranberry Square, Morgantown, West Virginia 26508

February 12, 2015

WV Department of Environmental Protection
Office of Oil and Gas
601 – 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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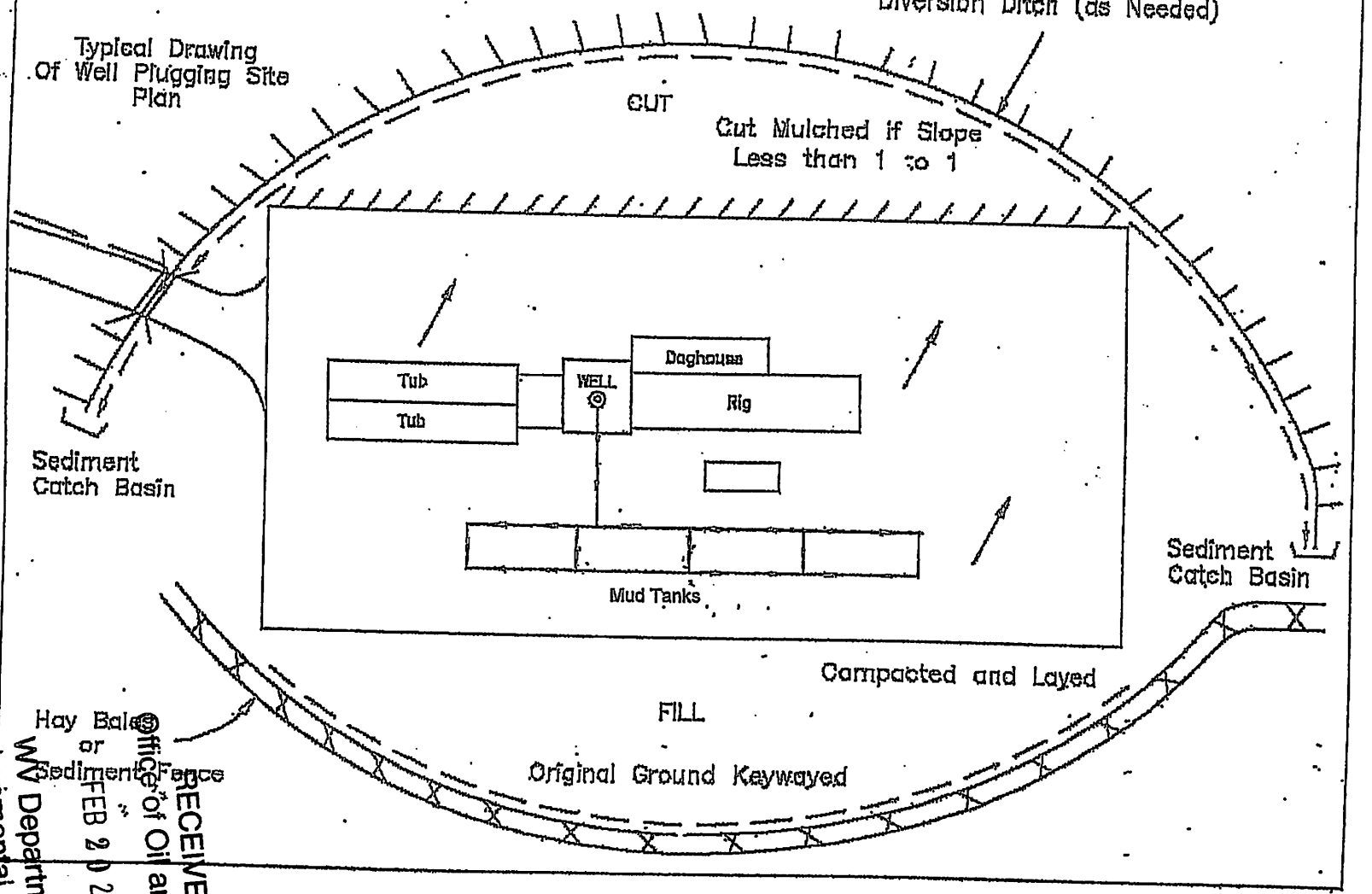
Office of Oil and Gas
FEB 20 2015
WV Department of
Environmental Protection

ICG TYGART VALLEY, LLC

Typical Drawing
Of Well Plugging Site
Plan



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Environmental Protection

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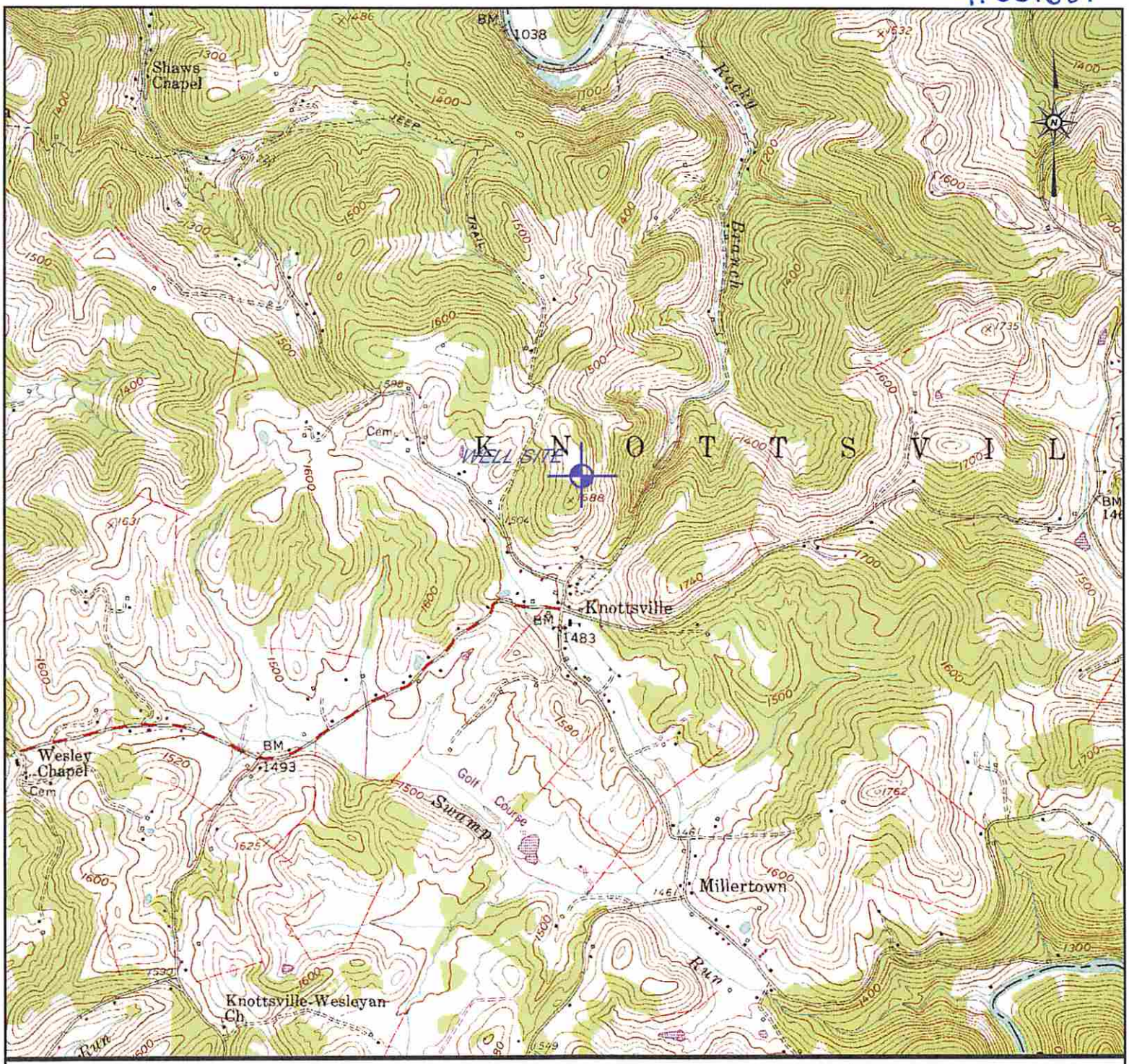

KLL 2-18-15

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

OPERATOR'S WELL NO. CNGD 6021
API WELL NO.

47	091	00168
STATE	COUNTY	PERMIT

WELL TYPE: OIL ____ GAS X LIQUID INJECTION ____ WASTE DISPOSAL ____
(IF "GAS") PRODUCTION X STORAGE ____ DEEP ____ SHALLOW X
LOCATION: ELEVATION 1667 WATERSHED Rocky Branch
DISTRICT Knottsville COUNTY Taylor
QUADRANGLE Thornton 7 1/2'
SURFACE OWNER: Cecil O. Wolfe ACREAGE ____
OIL & GAS ROYALTY OWNER Cecil O. Wolfe LEASE ACREAGE ____
LEASE NO. ____
PROPOSED WORK: DRILL X CONVERT ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE ____ PLUG OFF OLD FORMATION ____ PERFORATE NEW FORMATION ____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ____

PLUG AND ABANDON ____ CLEAN OUT AND REPLUG ____
TARGET FORMATION Balltown ESTIMATED DEPTH 4680'
WELL OPERATOR ICG Tygart Valley, LLC DESIGNATED AGENT Charles E. Duckworth
ADDRESS 2708 Cranberry Square, Morgantown, WV 26508 ADDRESS 1200 Tygart Drive, Grafton, WV 26508

REVISED BY	DATE	API WELL NO. 47-091-00168 CNGD 6021
		ICG TYGART VALLEY, LLC
		SCALE 1" = 2000'
		DATE ORIGINATED FEBRUARY 2015
		PLOTTING $DATE$

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

PREPARED BY:
Arch Coal
Appalachia - Northern Region
2708 Cranberry Square, Morgantown, WV 26508
Phone: 304-594-1616 Fax: 304-594-3708

9100168P

WW-7
8-30-06

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

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

FARM NAME: Cecil O. Wolfe

RESPONSIBLE PARTY NAME: ICG Tygart Valley, LLC

COUNTY: Taylor **DISTRICT:** Knottsville

QUADRANGLE: Thornton

SURFACE OWNER: Elva G. Wolfe

ROYALTY OWNER: CoalQuest Development, LLC

UTM GPS NORTHING: 4352415.392

UTM GPS EASTING: 589283.600 **GPS ELEVATION:** 1671.03

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

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

Survey grade GPS X : Post Processed Differential _____

Real-Time Differential X

Mapping Grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature	Power of Attorney Title	February 16, 2015 Date

9100168 P

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:

Jolene J. Mermis
Assistant Secretary of the Company

ICG TYGART VALLEY, LLC

James E. Florczak
Vice President and Treasurer

9100168P

POWER OF ATTORNEY

COALQUEST DEVELOPMENT LLC
TO
GREG NAIR

Dated: January 1, 2015

Expires: December 31, 2015

KNOW ALL MEN BY THESE PRESENTS: That CoalQuest Development LLC ("Company"), a limited liability company organized and existing under the laws of the State of Delaware, acting by and through James E. Florczak, its duly authorized Vice President and Treasurer, has and does hereby appoint Greg Nair its true and lawful Attorney-in-Fact with power and authority, for and on behalf, and in the name of the Company, during the period herein specified, and subject to the restrictions and limitations set forth in this Power, to execute, acknowledge and deliver in the ordinary and regular course of the Company's business, applications for mining, environmental, safety, and health permits, permit transfers, or permit bond releases or bond adjustments, amendments, supplements or modifications to such permits, certificates, gas well plugging applications, shallow well drilling permit applications, or other instruments directly related to such amendments, supplements or modifications, monthly production reports, air quality, water quality or other environmental reports, quarterly discharge monitoring reports and any other like or similar reports required to be filed with any local, state or federal governmental agency.

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:

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

COALQUEST DEVELOPMENT LLC

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