



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, April 17, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

CENTURY MINING, LLC
PO BOX 279

VOLGA, WV 25238

Re: Permit approval for 11018
47-001-00417-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 11018
Farm Name: INDIAN FORK COAL & COKE
U.S. WELL NUMBER: 47-001-00417-00-00
Vertical Plugging
Date Issued: 4/17/2020

Promoting a healthy environment.

I

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

1) Date February 25, 2020
2) Operator's Well No. 11018
3) API Well No. 47-001-0047P

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 X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production X or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 1,517' Watershed Unnamed Tributary of Big Run
District Union County Barbour Quadrangle Phillippi / Century

6) Well Operator CENTURY MINING, LLC 7) Designated Agent Gary Miles
~~North Central Resources, LLC~~ Address 200 Chapel Brook Drive
Address 200 Chapel Brook Drive
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified
Name Kenneth Greynolds
Address 613 Broad Run Rd.
Jane Lew, WV 26378

9) Plugging Contractor
Name CJ's Well Services, Inc.
Address P.O. Box 133
Rowe, VA 24646

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

- Move to site, Rig up Mix Mud, Bleed off Pressure, if necessary Bullhead Kill Well.
- Release packer and remove 3" tubing
- Clean out well bore to original total depth (TD). PSTD ≈ 4490'
- Set a bottom hole cement plug as required by the WV DEP from TD (~4,531' to 3,900').
- Run cement bond log, caliper and gamma logs to determine depth of casing and cement bond to the 4 1/2" casing.
- Cut the casing and remove any free 4 1/2" casing.
- Clean out well bore if necessary to tag top of bottom hole plug to insure plug location.
- Run suite of logs to determine casing size, bottom of casing, depth of coal seam, deviation of well bore and cement bond to casing.
- Gel (6%) will be placed from the bottom hole plug to ~ 2,200' (Bottom of intermediate plug).
- Cement hole from ~ 2,200' to 1,700'.
- If necessary cut and pull any free casing as determined by cement bond log on 8 1/4" casing.
- Cement hole from top of intermediate plug to surface per WV DEP regulations.
- Rig down and set monument as required by WV DEP.

In the event that the pipe is unable to be removed the inspector will be notified prior to cementing or perforating.

All cement plugs will be Class A cement with no more than 3% CaCl2. All spacers will be 6% gel (if spacers are used).

Cement plugs will cover all oil and gas shows, water shows and casing cuts per WV Code Chapter 22 Article 6.

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

Work order approved by inspector Kenneth L. Greynolds Date 3-2-20

47-001-0047P

Form OG-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary xxx
Spudder
Cable Tools
Storage

Quadrangle PHILIPPI
Permit No. BAR-117

WELL RECORD

Oil or Gas Well (Gas)
(KIND)

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm Indian Fork Coal & Coke Acres 62
Location (waters) _____
Well No. 11018 Elev. 1517'
District Union County Harbour
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 12-1-68
Drilling completed 12-8-68
Date Shot Not shot From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 81.0 Cu. Ft.
Rock Pressure 1110 lbs. 18 hrs.
Oil None bbls. 1st 24 hrs.
WELL ACIDIZED (DETAILS) No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 3/4	1197'	1197'	
6 3/4			Depth set
5 3/16			
4 1/2	1188	1188'	
3			Perf. top
2			Perf. bottom
Liners (used)			Perf. top
			Perf. bottom

WELL FRACTURED (DETAILS) 12-12-68 With 75,000# sand, 1000# glass beads, and 1000bbl water.

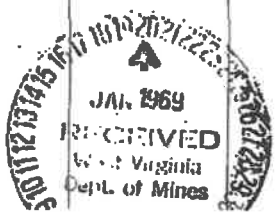
Attach copy of cementing record. 8" with 53 bags-Garaton
CASING CEMENTED SIZE No. Ft. Dat
Amount of cement used (bags) 4 3/4" with 100 bags-Dowell
Name of Service Co. _____

COAL WAS ENCOUNTERED AT 62 FEET 72 INCHES
211 FEET 36 INCHES 835 FEET 60 INCHES
FEET INCHES FEET INCHES

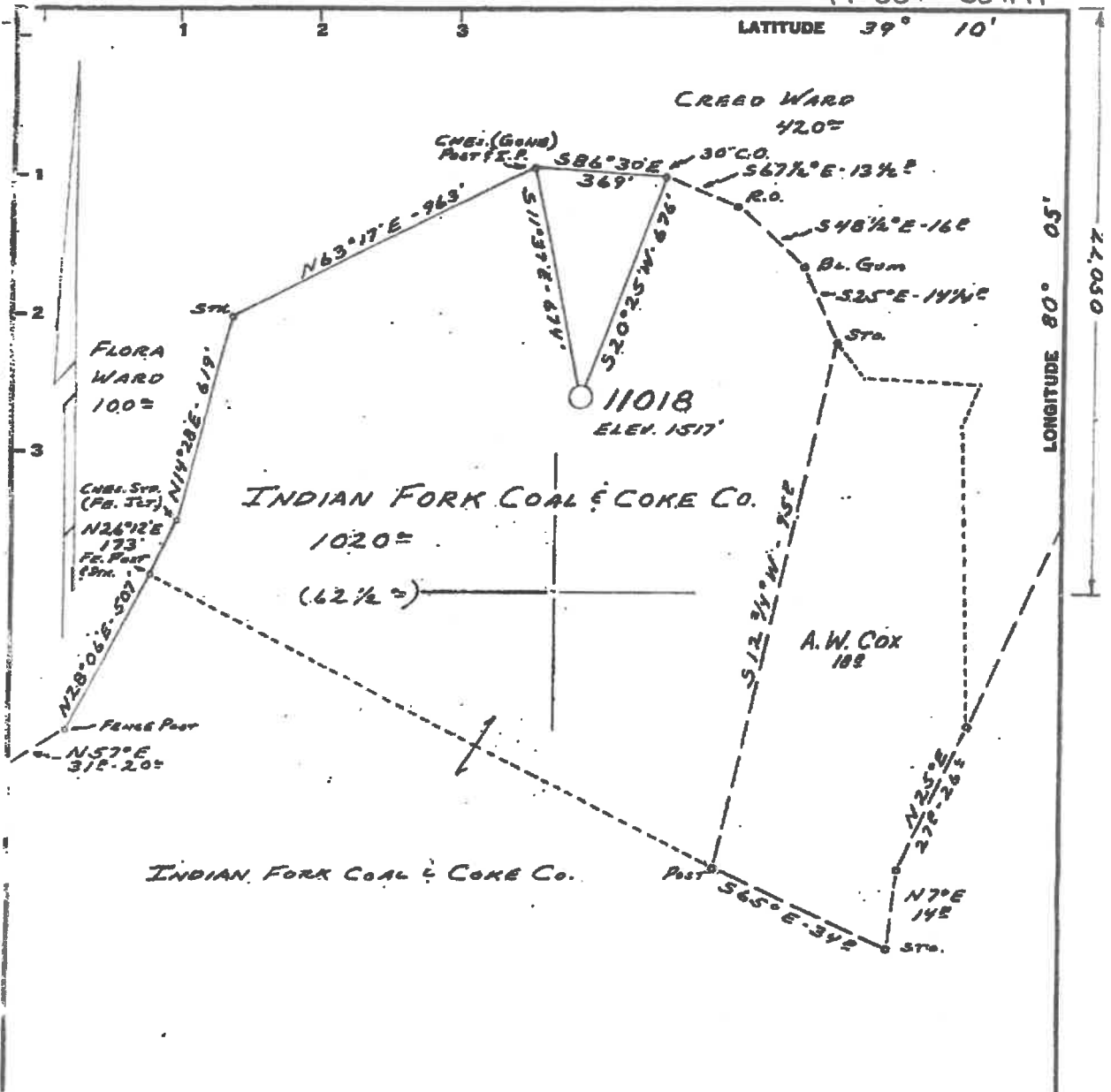
RESULT AFTER TREATMENT (Initial open flow or bbls.) 375,000 cu. ft. 375 Mcf
ROCK PRESSURE AFTER TREATMENT 1100# 1100# 11 days
Fresh Water 20' 151.90' Feet Salt Water 1110' Feet
Producing Sand Benson Depth 1120-1145'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Slate & Shale			0	62	Water	20' & 15'	
Coal			62	68			
Sand & Shale			68	211	Water	90'	
Coal			211	211			
Shale & Red Rock			211	835			
Coal			835	810			
Sand & Shale			810	1190	Water	1110'	
Maxton Sand			1190	1570			
Shale & Red Rock			1570	1700			
Rip Line			1700	1880			
Lime & Shale			1880	1965			
Gants Sand			1965	2020			
Sand & Shale			2020	1035	Water	2045'	
RILEY			1035	1065			
Sand & Shale			1065	1100			
BENSON			1100	1145	Gas	Benson	

Total Depth 1531'



Consolidated Gas Supply Corporation
1145 West Main Street
Clarksburg, W. Va.



Minimum Error of Closure 1' IN 200'
 Source of Elevation CONSOLIDATED GAS SUPPLY CORP. WELL # 9070
ELEV. 1460'
 "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 56-A S-25, E-25 F.B. 1497 Pg. 9-11

Company CONSOLIDATED GAS SUPPLY CORP.
 Address CLARKSBURG, W. VA.
 Farm INDIAN FORK COAL & COKE CO.
 Tract 62 1/2 AC. OF Acres 1020 AC. Lease No. 47349
 Well (Farm) No. _____ Serial No. 11018
 Elevation (Spirit Level) 1517'
 Quadrangle PHILIPPI C
 County BARBOUR District UNION
 Engineer Jackson M. Jarvis.
 Engineer's Registration No. 2397
 File No. _____ Drawing No. _____
 Date 9-21-68 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. BAR-417

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

WVDEP Office of Oil and Gas - Well Search

Disclaimer: Per §22-6-6. Permit required for all well work; permit fee; application; soil erosion control plan.

(a) It is unlawful for any person to commence any well work, including site preparation work, which involves any disturbance of land, without first securing a well work permit from the director of the WVDEP Office of Oil and Gas.

The appearance of an API number on the web page does not signify that a permit has been issued. The API number is used as a tracking mechanism until the permit has been issued. Under no circumstances should well work be commenced without a signed permit.

Current Operator

Well API	Operator	Surface Owner	Well Number	Well Status	Well Type	Last Permit Issue Date
4760100417	CHARITY GAS, INC.	INDIAN FORK COAL & COKE	11018	Abandoned Well	Vertical	12/08/1968

Note: The operator listed above is the CURRENT operator of the well. This operator may or may not have recorded production for this well for the years listed below. The production listed below spans the years shown, regardless of the operator who originally recorded a particular year's production numbers.

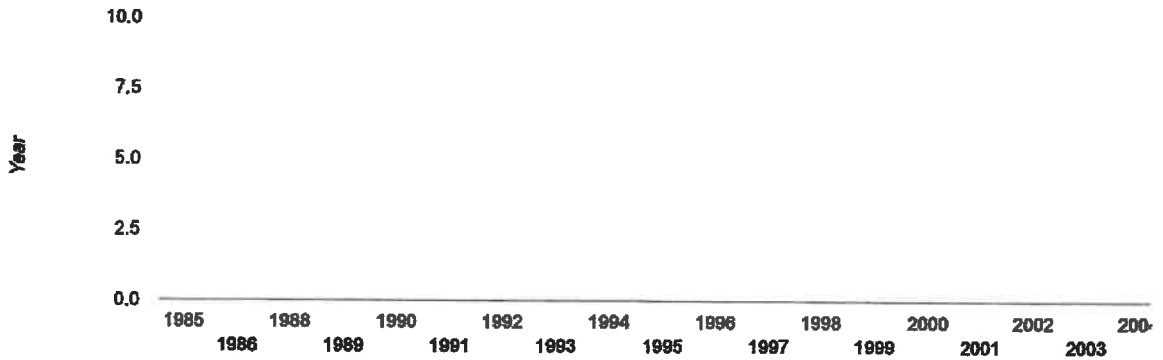
Production by Energy Type

Well Lifetime Gas Production

All amounts expressed in mcf (thousand cubic feet)

Reporting Operator	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
CHARITY GAS, INC.	2016	0	0	0	0	1	0	0	0	1	0	0	0	2
CHARITY GAS, INC.	2015	0	0	0	0	0	1	0	0	0	0	0	0	1
CHARITY GAS, INC.	2014	0	0	0	0	1	0	0	0	0	0	0	0	1
CHARITY GAS, INC.	2013	0	0	0	0	1	0	0	0	0	0	1	0	2
CHARITY GAS, INC.	2011	5	8	4	6	0	0	0	4	3	8	5	4	47
CHARITY GAS, INC.	2010	5	5	5	5	5	5	5	5	5	5	5	5	60
CHARITY GAS, INC.	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
CHARITY GAS, INC.	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
CHARITY GAS, INC.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0
CHARITY GAS, INC.	2006	0	0	0	1	1	2	1	0	2	1	0	1	9
DOMINION ENERGY TRANSMISSION, INC.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	2000	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1999	180	142	173	166	114	89	38	7	0	4	0	0	913
DOMINION ENERGY TRANSMISSION, INC.	1998	255	215	282	221	131	256	256	262	246	240	215	0	2,579
DOMINION ENERGY TRANSMISSION, INC.	1997	167	174	169	189	177	128	153	144	421	328	289	0	2,319
DOMINION ENERGY TRANSMISSION, INC.	1996	148	0	19	256	299	269	260	234	177	183	187	192	2,224
DOMINION ENERGY TRANSMISSION, INC.	1995	132	50	0	20	31	19	0	378	493	319	254	229	1,925
DOMINION ENERGY TRANSMISSION, INC.	1994	188	119	95	70	19	0	0	0	0	22	37	61	611
DOMINION ENERGY TRANSMISSION, INC.	1993	126	125	132	110	123	97	63	27	0	0	0	196	999

DOMINION ENERGY TRANSMISSION, INC.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1996	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1994	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1992	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1990	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1989	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1988	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1986	0	0	0	0	0	0	0	0	0	0	0	0	0
DOMINION ENERGY TRANSMISSION, INC.	1985	0	0	0	0	0	0	0	0	0	0	0	0	0



Well Lifetime NGL Production

No Production Reported

The West Virginia Department of Environmental Protection (WVDEP) makes oil and gas well information and production data available to the general public through this internet service free of charge.

The oil and gas related data originate from the information reported to the Office of Oil and Gas at WVDEP by West Virginia oil and gas operators. The WVDEP does not guarantee their accuracy, precision, or completeness.

Neither the West Virginia Department of Environmental Protection nor its staff members are liable or responsible for any damage or loss resulting from the use of these data or from inaccuracies contained in the data.

We encourage you to report any problems, inconsistencies, or errors noted in using this data to the Office of Oil and Gas so that we can correct them and provide better service.

Office of Oil and Gas
 Department of Environmental Protection
 601 57th St
 Charleston, West Virginia 25304
 Phone: (304) 926-0498
 Fax: (304) 926-0452

WW-4A
Revised 6-07

1) Date: February 25, 2020
2) Operator's Well Number
14018

3) API Well No.: 47 - 001 - 00417

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

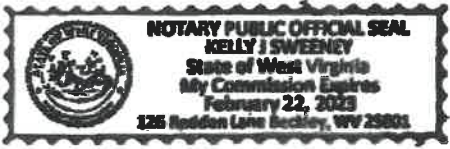
4) Surface Owner(s) to be served:		5) (a) Coal Operator	
(a) Name	<u>North Central Resources, LLC</u>	Name	<u>Century Mining, LLC</u>
Address	<u>200 Chapel Brook Drive</u> <u>Bridgeport, WV 26330</u>	Address	<u>200 Chapel Brook Drive</u> <u>Bridgeport, WV 26330</u>
(b) Name	_____	(b) Coal Owner(s) with Declaration	_____
Address	_____	Name	<u>North Central Resources, LLC</u>
(c) Name	_____	Address	<u>200 Chapel Brook Drive</u> <u>Bridgeport, WV 26330</u>
Address	_____	Name	_____
6) Inspector	<u>Kernath Graynolds</u>	Address	_____
Address	<u>813 Broad Run Rd.</u> <u>Jenns, WV 26378</u>	(c) Coal Lessee with Declaration	_____
Telephone	<u>304-206-8813</u>	Name	_____
		Address	_____

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 reverse 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 Century Mining, LLC.
 By: Gary Miles *Gary Miles*
 Title: Chief Engineer
 Address: 200 Chapel Brook Drive
Bridgeport, WV 26330
 Telephone: 304-808-1157

Subscribed and sworn before me this 26th day of February, 2020
Kelly J. Sweeney
 My Commission Expires 2/22/2023 Notary Public

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SURFACE OWNER WAIVER

Operator's Well
Number

11018

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.**

FOR EXECUTION BY A CORPORATION,



Signature

Date 2-27-20

Name
By
Its

North Central Resources, LLC

Mr. Kevin Bealko - President

Date

Signature

Date

WW-4B

API No. 47-001-00417 P
Farm Name _____
Well No. 11018

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

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

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

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

WAIVER

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

Date: 2/26/2020

North Central Resources, LLC
By: [Signature]
Its President

WW-9
(S16)

API Number 47 - 001 00417
Operator's Well No. _____

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Century Mining, LLC OP Code _____
Waterbed (HDC 10) Wash Run Quadrangle Century / Philippi

Do you anticipate using more than 5,000 bbl of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (If selected provide a completed form WW-9-GFP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Specify Tanks or Existing Ponds)

Will closed loop system be used? If so, describe: Yes, Gel circulated from tank thru well bore and returned to tank.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or Cement

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cuttings buried on site

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? N/A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 fines or imprisonment.

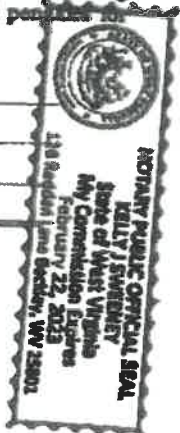
Company Official Signature Gary Miles

Company Official (Typed Name) Gary Miles

Company Official Title Chief Engineer

Subscribed and sworn before me this 26th day of February, 2020

Kelly J. [Signature] Notary Public
My commission expires 2/20/23



Form WW-9

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____

Line 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
See Attachment	100	See Attachment	100

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: RECLAIM, RESEED + MULCH AREA

Title: Oil Pits Inspector

Date: 3-2-20

Field Reviewed? () Yes () No

**MR-4 SMA
North Central Resources, LLC
Attachment O-9**

O-9. PROVIDE A PLANTING PLAN WHICH INCLUDES THE FOLLOWING:

A. A PREDICTION OF THE MINESOIL CHARACTER BASED ON OVERBURDEN ANALYSIS, SOIL ANALYSIS, AND OTHER AVAILABLE INFORMATION;

A site-specific test of the soils to be used for reclamation will be performed. These tests will be used to determine the amount of lime and fertilizer to be added prior to seeding.

B. PROPOSED TREATMENT TO NEUTRALIZE ACIDITY;

Soil shall be treated with ground limestone or an equivalent amendment to maintain a pH of 6.0. Liming requirements will be determined by approved testing of soil conducted during or just prior to regrading.

C. METHOD OF MECHANICAL SEED BED PREPARATION;

A minimum of 6 inches of topsoil material will be spread over the regrade area to provide a suitable base for vegetation. Where and when possible, as promoted by the FRA, the surface soil layer will be four feet deep and only lightly graded. Ability to achieve this FRA surface soil layer depth will be determined by the steepness of the slopes and available material. Heavily compacted areas such as road beds shall be ripped or disked prior to revegetation in order to create a loose growth medium.

D. APPLICATION RATES AND ANALYSIS OF FERTILIZATION;

Fertilizer shall be at the rate of 600 pounds per acre of 10-20-10 or as required by the results of approved soil testing prior to hydroseeding. Higher levels of application will be applied if specified by post mining soils test analyses. As suggested by the FRA, lower nitrogen fertilizers will be utilized, as this should discourage over growth of ground cover while allowing for optimal tree growth.

E. APPLICATION RATES AND TYPES OF MULCH;

Mulch will be applied at a rate of 1,000 lbs/acre of wood fiber or wood cellulose. If shredded bark is used, it will be applied at a rate of 50 cy/acre. Straw or hay will be used at 1½ - 2 tons/acre.

MR-4 SMA
North Central Resources, LLC
Attachment O-9 (continued)

F. APPLICATION RATES AND SPECIES OF PERENNIAL VEGETATION INCLUDING THE HERBACEOUS AND WOODY PLANTS;

Seed Mixture	Permanent Vegetation	
	Rate ^a	Seed Rate
		Seeding time(s) ^b
Winter Wheat	15 lbs/acre	Sept – Nov
Foxtail Millet	5 lbs/acre	March 1 – June 15
Redtop	2 lbs/acre	March 1 – June 15
Perennial Ryegrass	2 lbs/acre	March 1 – June 15
Orchardgrass	5 lbs/acre	March 1 – June 15
Weeping Lovegrass	2 lbs/acre	March 1 – June 15
Kobe Lespedeza	5 lbs/acre	March 1 – June 15
Birdsfoot trefoil	10 lbs/acre	March 1 – June 15
White Clover	3 lbs/acre	March 1 – June 15

^aSeeding rate suggested is for Pure Live Seed (PLS) in pounds/acre.

^bFall and winter seeding mixtures should vary as shown.

^cHerbaceous legumes must be treated with the appropriate bacterium before seeding.

G. AREAS TO BE PLANTED OR SEEDED TO TREES AND SHRUBS;

All areas shall be revegetated to hayland/pasture.

H. A MAINTENANCE SCHEDULE AND PROCEDURES; AND

During the active life of the mining operation and after final planting has occurred, the areas which were seeded, will be inspected prior to the spring and fall planting seasons. Any areas, which have not met the revegetation success standards, as required by the West Virginia Department of Environmental Protection, shall be reseeded. Reseeding application rates and species shall be the same as those specified herein. A temporary vegetative cover shall be established as contemporaneously as possible with backfilling and grading until a permanent vegetative cover can be established. At a minimum, a temporary or permanent vegetative cover shall be established by the end of the first growing season and a permanent vegetative cover shall be established after the areas have been regraded for final reclamation.

I. A PLAN FOR TEMPORARY VEGETATION COVER TO INCLUDE THE FOLLOWING:

- SPECIES
- SEEDING RATE; AND
- TIMING.

A temporary vegetative cover shall be established as soon as possible in coordination with backfilling and regrading until such a time that permanent vegetative cover shall be established

MR-4 SMA
North Central Resources, LLC
Attachment O-9 (continued)

and will serve as a form of erosion control. At a minimum, a temporary vegetative cover shall be established by the end of the first growing season and a permanent cover shall be established after associated structures have been removed and the areas have been regraded for final reclamation. The following mixtures, rates and seeding times are outlined below:

<u>Seed Mixture</u>	<u>Temporary Vegetation</u>	
	<u>Rate^a</u>	<u>Seeding time(s)^b</u>
Winter Wheat	15 lbs/acre	Sept – Nov
Foxtail Millet	5 lbs/acre	March 1 – June 15
Redtop	2 lbs/acre	March 1 – June 15
Perennial Ryegrass	2 lbs/acre	March 1 – June 15
Orchardgrass	5 lbs/acre	March 1 – June 15
Weeping Lovegrass	2 lbs/acre	March 1 – June 15
Kobe Lespedeza	5 lbs/acre	March 1 – June 15
Birdsfoot trefoil	10 lbs/acre	March 1 – June 15
White Clover	3 lbs/acre	March 1 – June 15

^aSeeding rate suggested is for Pure Live Seed (PLS) in pounds/acre.

^bFall and winter seeding mixtures should vary as shown.

^cHerbaceous legumes must be treated with the appropriate bacterium before seeding.

WW-7
8-30-06



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

API: 47-001-00417 WELL NO.: 11018
 FARM NAME: Indian Fork Coal & Coke Co.
 RESPONSIBLE PARTY NAME: Gary W. Miles
 COUNTY: Barbour DISTRICT: Union
 QUADRANGLE: Phillipi / Century
 SURFACE OWNER: North Central Resources, LLC
 ROYALTY OWNER: North Central Resources, LLC
 UTM GPS NORTHING: 4,328,919.105
 UTM GPS EASTING: 573,549.657 GPS ELEVATION: 468.823

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

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

Survey grade GPS : Post Processed Differential _____


Real-Time Differential

Mapping Grade GPS _____ : Post Processed Differential _____

Real-Time Differential _____

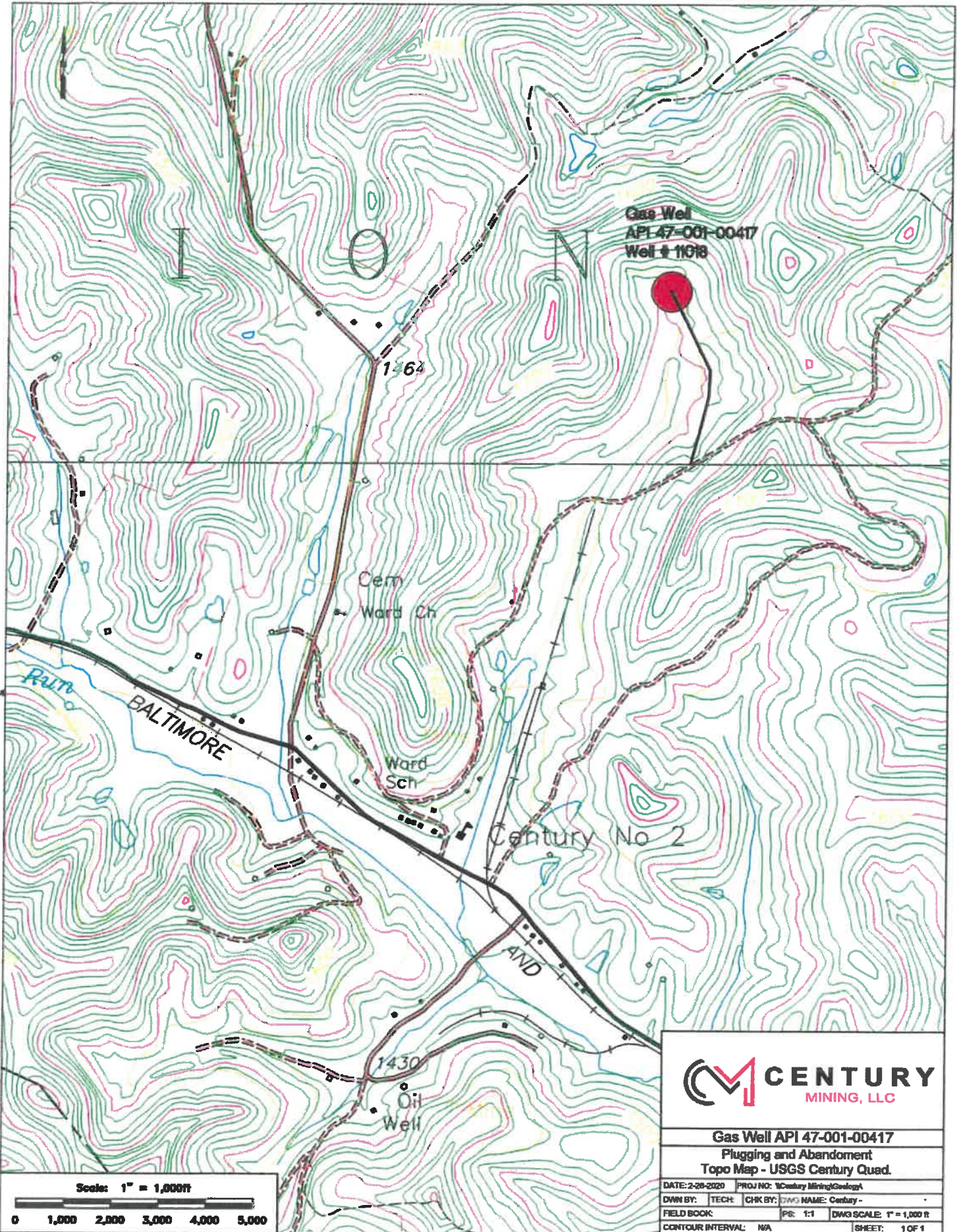
4. Letter size copy of the topography map showing the well location.

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


Signature

Chief Eng.
Title

4/16/2020
Date



Gas Well API 47-001-00417			
Plugging and Abandonment			
Topo Map - USGS Century Quad.			
DATE: 2-28-2020	PROJ NO: 11Century Mining/Geology		
DWN BY:	TECH:	CHK BY:	DWG NAME: Century -
FIELD BOOK:	PS: 1:1	DWG SCALE: 1" = 1,000 ft	
CONTOUR INTERVAL: NA			SHEET: 1 OF 1