



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, March 29, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC
STORAGE TECHNICAL SERVICES - 6TH FLOOR
1700 MACCORKLE AVE. SE.
CHARLESTON, WV 25314

Re: Permit approval for 4309 (F-30987)
47-051-00269-00-00

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: 4309 (F-30987)
Farm Name: YOHO, G. N.
U.S. WELL NUMBER: 47-051-00269-00-00
Vertical Plugging
Date Issued: 3/29/2021

Promoting a healthy environment.

04/09/2021

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4705100269P

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.

04/09/2021

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 ___ or Underground storage X) Deep ___ / Shallow X

5) Location: Elevation 1306.0' Watershed Valley Run - A Tributary of Fish Creek
District Liberty County Marshall Quadrangle Wileyville, WV

6) Well Operator Columbia Gas Transmission, LLC 7) Designated Agent Brad Nelson, Storage Engineer
Address 1700 MacCorkle Avenue S.E., P.O. Box 1273 Address 455 Racetrack Road
Charleston, WV 25325 Washington, PA 15301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Barry Stollings Name Contractor Services, Inc. of West Virginia (ConServ)
Address 28 Conifer Drive Address 929 Charleston Road
Bridgeport, WV 26330 Spencer, WV 25276

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

Refer to enclosed:

- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

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

Work order approved by inspector Barry Stollings Date 2-11-21

04/09/2021

WELL JOB PLAN		Well Engineering & Technology		PAGE 3	DATE JOB PREPARED: 1/6/2021
Objective: Plug and Abandonment			LAST PROFILE UPDATE:		
TITLE: Plug and Abandonment			WORK TYPE: MOD3		
FIELD: Victory B	WELL: 4309				
STATE: WV	SHL (Lat/Long): 39.738060 -80.64194		API: 47-051-00269-00-00		
TWP: Liberty	BHL (Lat/Long): 39.738060 -80.64194		CNTY: Marshall		

PROCEDURE

* Note that well was killed in 2018 and composite DBP installed (capped with cement).

47051002690

- 1 Obtain NRP clearances, TOPs, pipeline crossing eval, etc.
- 2 Obtain State plugging permit.
- 3 Notify Reservoir Engineering & Geosciences (REG) of intent to take well out of service.
- 4 Notify environmental inspector.
- 5 Prepare access road and well site. Install ECD's per EM&CP.
- 6 Service all wellhead valves.
- 7 Document initial tubing / casing / annular pressures.
- 8 MI flowback tank and blow flowstring and all annuli, to unload any lighter density fluid in wellbore.
- 9 Load 4" x 7", 7" x 8", and 8" x 10" annuli with kill fluid. Load the 10" x 13" with TFW.
- 10 Blow down and kill well. Blow down and load all annuli with kill fluid.
- 11 Monitor well pressures for a couple days and top well with kill fluid as necessary.
- 12 MIRU service rig.
- 13 Plumb 4x7 annulus to flowback tank, to monitor and capture/control returns if needed.
- 14 Remove wellhead down to casing head.
- 15A *If traditional seal/slip assembly:* Circulate across 4x7 annulus to keep full at all times for well control during next steps. Spear 4-1/2", pull seals/slips, weld on pulling nipple with collar looking up, heavily dope collar threads, lower to 100% slack-off, and release spear.
- 15B *If mandrel hanger with lift threads:* Clean top of mandrel and soak with motor oil.
- 16 Install 7" gate valve and NU 7-1/16" BOPE (double ram w/ blind/pipe + annular). Function and pressure test to low 250 psig, high 1000 psig.
- 17 Drill composite DBP and clean to hard bottom below bottom of 4-1/2" csg. TOOH.
- 18 Install 4-1/2" pipe rams.
- 19 PU 4-1/2" pulling nipple and screw into collar/mandrel hanger.
- 20 Function and pressure test pipe rams low 250 and high 1000 psig.
- 21 Release packer, circulate good kill fluid to surface, and condition hole. Pull 4-1/2" tubing/packer. Pull tubing slowly to prevent swabbing. Maintain trip tank volumes.
- 22 Replace pipe rams to accommodate work string OD. Function and pressure test pipe rams to low / high, 250 psig / 1000 psig.
- 23 If deemed necessary clean to hard bottom again.
- 24 MIRU Baker Atlas. Run a CBL from TD to surface. Report results to Engineer. Procedure may change depending on bond behind pipe.
- 25 TBIH open-ended and spot balanced cement plug from TD to 1200 ft.
- 26 WOC 8 hrs and tag cement top. If cement top is deeper than 1410' then install second cement plug. TOOH.
- 27 Set CIBP above cement top.
- 28 TIH open-ended and spot balanced cement plug(s) from top of BP to depth of cement top behind 7" casing.
- 29 ND BOPs.
- 30 Weld pulling nipple on 7" and 8-5/8" casing, and dress 10-3/4" to accommodate BOPs.
- 31 NU 11" spool with kill / choke outlets and 11" annular BOP. Pressure test low / high, 250 psig / 500 psig.
- 32 Wireline freepoint 7" casing and cut / pull all 7" casing that is free.
Consult with WE&T Engineer to determine if a CBL is required.
- 33 Wireline freepoint 8-5/8" casing and cut / pull all 8-5/8" casing that is free.
Consult with WE&T Engineer to determine if a CBL is required.
- 34 If wellbore configuration allows, perf and squeeze in attempt to place cement behind 10-3/4" casing.
- 35 ND BOPs.
- 36 Attempt to pull all 10-3/4" casing that is free. If can't pull all 10-3/4" csg then cut/pull all that is free.
- 37 TIH with work string and spot balanced cement plug(s) from top of last cement plug to surface.
- 38 Top off well and all remaining annuli with cement.
- 39 Install 7" csg monument 30" above GL, tack weld cap, and affix API number.
- 40 When backfilling install plastic Columbia Gas line marker.
- 41 Reclaim road and location.

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PREPARED BY: Brad Nelson	REVIEWED BY:	APPROVED:
PREP DATE: 1/6/2021		

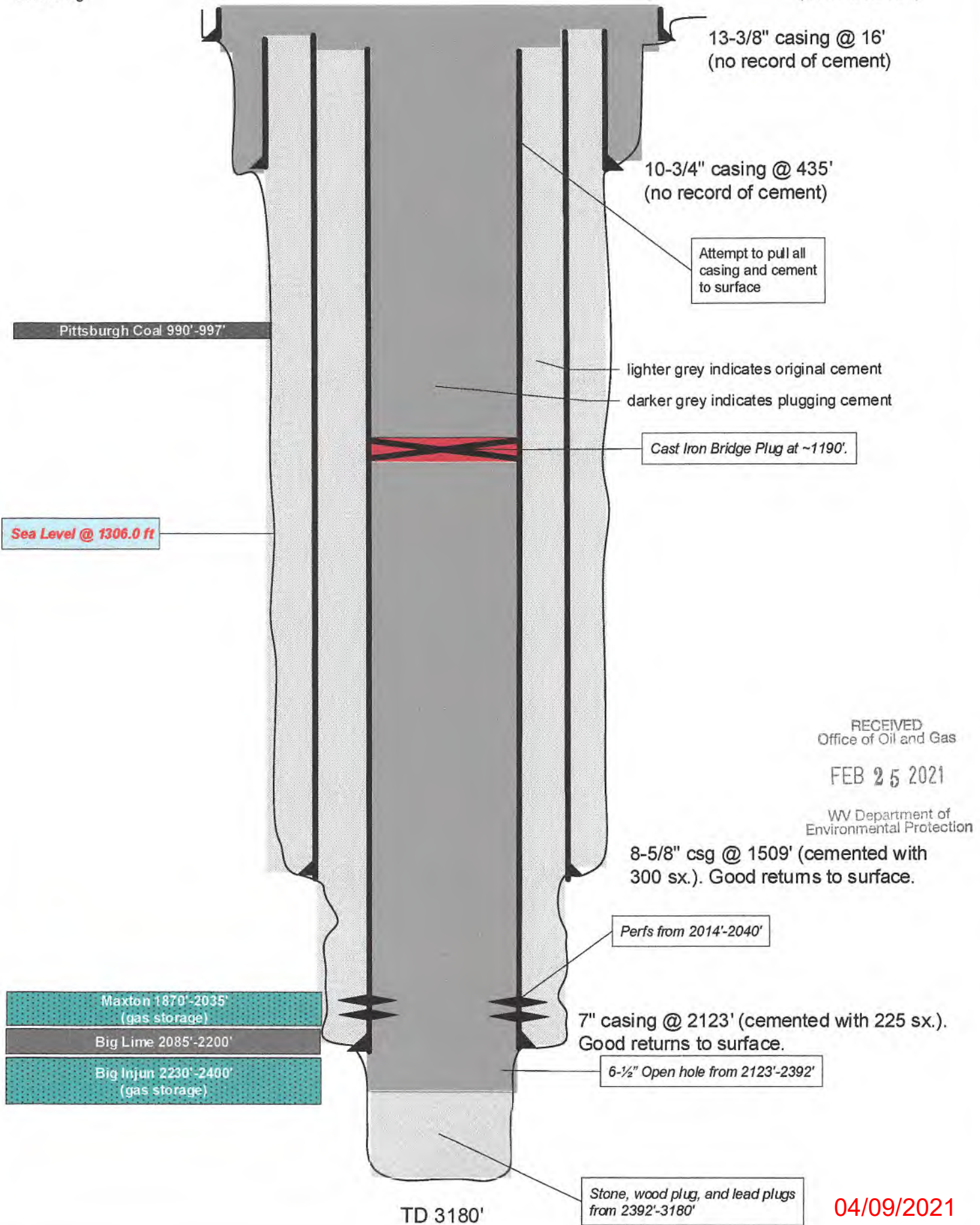
04/09/2021

~ not to scale ~

* Water reported from 1900'-1915' on the Driller's log.

4705100269 **VICTORY B 4309** P

Proposed P&A
(as of 1/6/2021)



13-3/8" casing @ 16'
(no record of cement)

10-3/4" casing @ 435'
(no record of cement)

Attempt to pull all casing and cement to surface

Pittsburgh Coal 990'-997'

lighter grey indicates original cement
darker grey indicates plugging cement

Cast Iron Bridge Plug at ~1190'

Sea Level @ 1306.0 ft

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8-5/8" csg @ 1509' (cemented with 300 sx.). Good returns to surface.

Perfs from 2014'-2040'

Maxton 1870'-2035'
(gas storage)
Big Lime 2085'-2200'
Big Injun 2230'-2400'
(gas storage)

7" casing @ 2123' (cemented with 225 sx.). Good returns to surface.

6-1/2" Open hole from 2123'-2392'

TD 3180'

Stone, wood plug, and lead plugs from 2392'-3180'

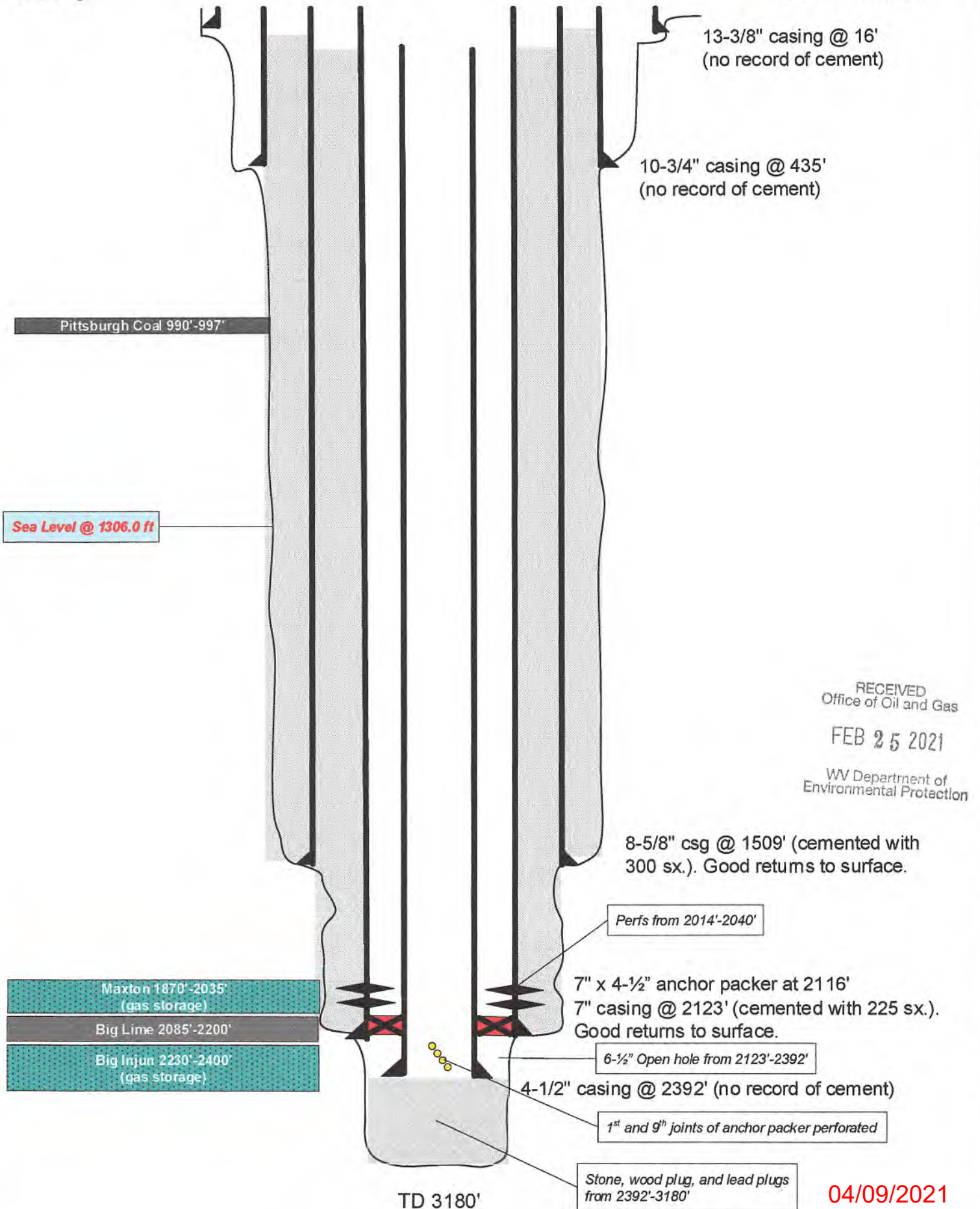
04/09/2021

~ not to scale ~

* Water reported from 1900'-1915' on the Driller's log.

4705100269 VICTORY B 4309

Prior to P&A
(as of 10/12/2020)



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04/09/2021



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Littleton

WELL RECORD

Permit No. MARS-269-R

Oil or Gas Well Stor. _____
(KIND)

Company THE MANUFACTURERS LIGHT AND HEAT CO.
 Address 800 UNION TRUST BLDG., PGE., PENNA.
 Farm G. N. Yoho Acres 28
 Location (waters) _____
 Well No. 1-4309 Elev. 1271
 District Liberty County Marshall
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced December 6, 1954
 Drilling completed February 21, 1955
 Date Shot _____ From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume No gas to test Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer
18			
10		438	Size of
8 3/4		1521	
8 3/8 7		2136	Depth set
8 3/8 4		2410	
8			Perf. top
8			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 900 FEET _____ INCHES

992 FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Native Coal			900	905	Run 438' of	10-3/4 casing,	8 rd thd. SM
Pittsburgh Coal			992	998	H 40 32.75#	on steel shoe,	Not cemented
Maxon Sand			2014	2040	Run 1521' of	8-5/8" casing,	8 rd thd.
Big Injun Sand			2103	2400	SM J55 2 1/2#	on Steel shoe.	Cemented
Total Depth			2392		between the	8" and 10" casing	with 300
					bags cement and	2 bags Aquagel.	
					Good return of	cement at surface.	Run
					2136' of 7" casing,	8 rd thd. SM J55	
					on steel shoe set	at 2123' Cemented	
					between the	7" and 8" casing	with 225
					bags cement and	2 bags of Aquagel.	Good
					return on cement	at surface. Run	2410'
					of 4 1/2" tubing.	SM J55 12.6#	Nine jts.
					below packer.	First and ninth jt.	per-
					forated. Packer	set at 2116'	
					Perforated with	4 shots per ft. from	
					2040' to 2014'	and 2 additional	shots
					from 2034' to	2024'. Used	5/8" bullets.

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4705100269P
4309

FORM 100 C60

The Manufacturers Light and Heat Company
Company

Division 4
 Record of well No. (F-30987) L-4309 on Joshua Yoho Farm 28 Acres
Cameron Field Liberty District Marshall County W Va. State
 Rig Commenced 19 , Completed 19
 Drilling Commenced Dec. 6, 1954 , Completed Feb. 21 1955
 Contractor Cecil Chisler and Son Address Fairview, W. Va.
 Driller's Name Cecil Chisler and Bob Chisler

CASING AND TUBING RECORD

Used in Drig.	Conductor	13"	10"	8 1/4"	7"	6 5/8"	5 3/8"	4"	3"	
Left in well	13"x16'		438	1521	2136			2410		

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		
4"x6 5/8	2116	Anchor							

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours
						1	5	10	30	60			

TOTAL INITIAL OPEN FLOW No gas to test CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Native Coal	900	905	5	All pipe measured over threads Run 438' of 10 3/4" casing, 8 rd thd. SM. H 40 32.75# on steel shoe, Not cemented. Run 1521' of 8 5/8" casing, 8 rd thd. SM. J55. 21# on Steel shoe. Cemented between the 6" and 10" casing with 300 bags cement and 2 bags Aquagel. Good return of cement at surface. Run 2136' of 7" casing, 8 rd thd. SM. J55. 20# on steel shoe set at 2123' Cemented between the 7" and 8" casing with 225 bags cement and 2 bags of Aquagel. Good return on cement at surface. Run 2410' of 4 1/2" Tubing, SM. J55. 12.6 #, Nine joints below packer. First and ninth joint perforated. Packer set at 2116' Perforated with 4 shots per foot from 2040' to 2014' and 2 additional shots from 2034' to 2024'. Used 5/8" bullets.
Pittsburgh Coal	992	998	6	
Maxton Sand	2014	2040	26	
Big Injun Sand	2103	2400	297	
Total Depth		2392		

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Examined above information and measurements and found to be correct by _____ Contractor
 Examined and Approved by _____ Field Superintendent

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

04/09/2021

WELL RECORD

CO.

Well No. L-4309

Farm Joshua Yoho

District Liberty

County Marshall

State West Virginia

Owned by _____

Division _____

Date _____ 19 _____

Entered W. R. Book Folio _____

By _____

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4705100269P

4705100269P
1251-L-807-4

Division F 30779

Company

Record of well No. 4-6342

on Joshua Yohe Farm

Acres

Field Liberty ~~Marshall~~ District Marshall County W. Va. State

Rig Commenced 19 Completed 19

Drilling Commenced 19 Completed 19

Contractor _____ Address _____

Driller's Name

Walt in Basin Maxon and Veg. Drilling

CASING AND TUBING RECORD

Conductor	18"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"
Used in Drig.								
Left in well		<u>1037' 6"</u>	<u>1530' 1"</u>		<u>2193' 1"</u>	<u>2796' 5"</u>		

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours	
						1	5	10	30	60				

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Native Coal	<u>985</u>			
Pittsburgh Coal	<u>.994</u>	<u>998</u>		
Little Dunkard	<u>1300</u>	<u>1370</u>		
Big Dunkard	<u>1508</u>	<u>1537</u>		
Gas Sand	<u>1565</u>	<u>1600</u>		
Thin Shells	<u>1618</u>	<u>1840</u>		
Second Salt Sand	<u>1860</u>	<u>1925</u>		<u>Water 1900 - 1915</u>
Maxon Sand	<u>2005</u>	<u>2030</u>		<u>2014 to 2040</u>
Little Lime	<u>2030</u>	<u>2045</u>		
Pencil Cave	<u>2045</u>	<u>2059</u>		
Big Lime	<u>2059</u>	<u>2110</u>		
Big Injun	<u>2110</u>	<u>2410</u>		<u>Let Injun 2395</u>
Shells	<u>2960</u>	<u>2980</u>		
Gordon	<u>3004</u>	<u>3019</u>		
Fourth	<u>3050</u>	<u>3074</u>		<u>Gas at 3065</u>
Fifth	<u>3125</u>	<u>3132</u>		
TOTAL DEPTH		<u>3180</u>		

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PLUGGING RECORD

Filled with stone to <u>3025'</u> drove wood plug, Filled with stone to <u>2970'</u> drove <u>5"</u> Lead plug,
Filled with stone to <u>2850'</u> drove <u>5"</u> wood plug, Filled with stone to <u>2800'</u> , Pulled <u>5 3/16"</u>
casing, drove <u>6"</u> wood plug at <u>2500'</u> Filled with stone to <u>2300'</u> , Drove <u>6"</u> lead plug at <u>2300'</u> ,
Filled with stone to <u>2200'</u> , Bridge at <u>1600'</u> Filled with stone to <u>1550'</u> , drove <u>8 1/2"</u> wood plug,
Filled with stone to <u>1525'</u> pulled <u>8 1/2"</u> Casing, Filled with stone to <u>1075'</u> ; Drove <u>10"</u> Wood plug
<u>1050'</u> Pulled <u>10"</u> Casing, Filled to Top with stone,
Record shows all pipe pulled,

Examined above information and measurements and found to be correct by

Examined and Approved by

Contractor

Field Superintendent

04/09/2021

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

1) Date: 2/9/2021
2) Operator's Well Number
Victory B 4309
3) API Well No.: 47 - 051 - 002690000

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>George N. Yoho Heirs, Jack R. Hammers</u>	Name <u>CONSOL RCPC, LLC</u>
Address <u>165 Oakmont Road</u>	Address <u>1000 Consol Energy Drive, Suite 100</u>
<u>Wheeling, WV 26003</u>	<u>Canonsburg, PA 15317</u>
(b) Name <u>Twila O. Whipkey Estate</u>	(b) Coal Owner(s) with Declaration
Address <u>One Bank Plaza</u>	Name <u>CONSOL RCPC, LLC</u>
<u>Wheeling, WV 26003</u>	Address <u>1000 Consol Energy Drive, Suite 100</u>
(c) Name <u>Fred Hammers</u>	Name <u>Murray Energy Corporation, American Consolidated Natural Resources, Inc.</u>
Address <u>3 Squire Valley Road</u>	Address <u>46226 National Road</u>
<u>Barboursville, WV 25504</u>	<u>St. Clairsville, OH 43950</u>
6) Inspector <u>Barry Stollings</u>	(c) Coal Lessee with Declaration
Address <u>28 Conifer Drive</u>	Name <u>Not leased.</u>
<u>Bridgeport, WV 26330</u>	Address _____
Telephone <u>304-552-4194</u>	_____

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

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

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

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

Commonwealth of Pennsylvania - Notary Seal
Elaine Rybski, Notary Public
Allegheny County
My commission expires May 11, 2022
Commission number 1332803

Well Operator Columbia Gas Transmission, LLC
 By: Brad Nelson
 Its: Storage Engineer
 Address 455 Racetrack Road
Washington, PA 15301
 Telephone 724-250-0610

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FEB 25 2021
WV Department of
Environmental Protection

Commonwealth of Pennsylvania
County of Allegheny

Subscribed and sworn before me this 9 day of February 2021
Elaine Rybski Notary Public
My Commission Expires 5/11/2022

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.
04/09/2021



1700 MacCorkle Ave. SE
P.O. Box 1273
Charleston, WV 25325

February 10, 2021

George N. Yoho Heirs, Jack R. Hammers
165 Oakmont Road
Wheeling, WV 26003

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Victory B 4309 (API # 47-051-00269-00-00).

As part of the well permitting process, Columbia, the well operator, is required to provide a copy of all applicable permit application forms for your review and record retention.

If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink that reads "Brad Nelson".

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

4705100269P

7018 3090 0001 7216 1839
7126 9122 1000 060E 8102

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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REC-100
Office of the Inspector General

FEB 26 2021

For delivery information, visit our website at www.usps.com®.

Wheeling, WV 26003

OFFICIAL USE

Certified Mail Fee \$3.60

\$ \$2.25

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ \$0.00

Return Receipt (electronic) \$ \$0.00

Certified Mail Restricted Delivery \$ \$0.00

Adult Signature Required \$ \$0.00

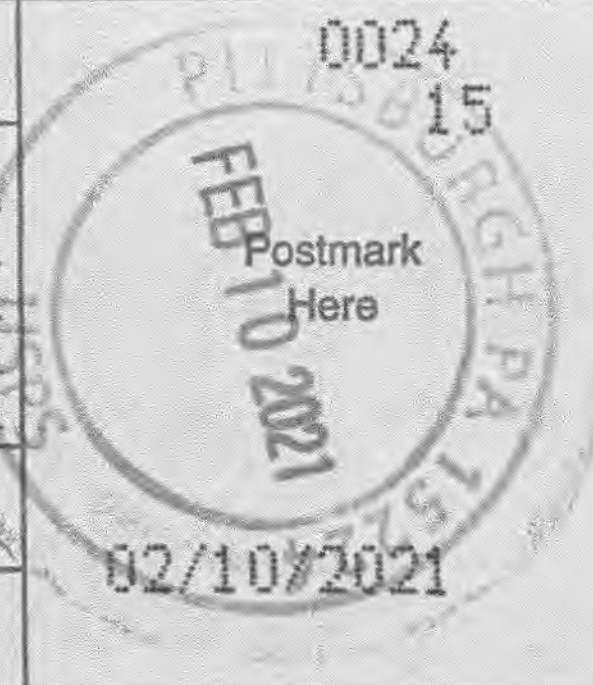
Adult Signature Restricted Delivery \$ \$0.00

Postage \$1.80

\$ \$8.25

Total Postage and Fees

\$ \$8.25



Sent To

George N. Yohe Heirs, Jack R. Hammers

Street and Apt. No., or PO Box No.

165 Oakmont Road

City, State, ZIP+4®

Wheeling, WV 26003

4705100269P



1700 MacCorkle Ave. SE
P.O. Box 1273
Charleston, WV 25325

February 10, 2021

Twila O. Whipkey Estate
One Bank Plaza
Wheeling, WV 26003

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Victory B 4309 (API # 47-051-00269-00-00).

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If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink that reads "Brad Nelson".

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

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Office of Oil and Gas

FEB 25 2021

WV Department of
Environmental Protection

04/09/2021

4705100269F

7078 3090 0001 7216 1846

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Extra Services & Fees (check box, add fee as appropriate)	\$2.85
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.80
Total Postage and Fees	\$8.25

0024
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Postmark
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02/10/2021

Sent To *Twila O. Whipkey Estate*

Street and Apt. No., or PO Box No.
One Bank Plaza

City, State, ZIP+4®
Wheeling, WV 26003

4705100269P



1700 MacCorkle Ave. SE
P.O. Box 1273
Charleston, WV 25325

February 10, 2021

Fred Hammers
3 Squire Valley Road
Barboursville, WV 25504

Columbia Gas Transmission, LLC is applying for a permit to the WV Department of Environmental Protection – Office of Oil and Gas, to plug and abandon an existing underground natural gas storage well located on property owned by you. As reference, the field and well ID is Victory B 4309 (API # 47-051-00269-00-00).

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brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

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Barboursville, WV 25504

OFFICIAL USE

Certified Mail Fee \$3.60

\$ 2.85

Extra Services & Fees (check box, add fee as appropriate)

- Return Receipt (hardcopy) \$ 0.00
- Return Receipt (electronic) \$ 0.00
- Certified Mail Restricted Delivery \$ 0.00
- Adult Signature Required \$ 0.00
- Adult Signature Restricted Delivery \$ 0.00

Postage \$1.80

\$ 8.25

Total Postage and Fees \$8.25

\$

Sent To *Fred Hammers*

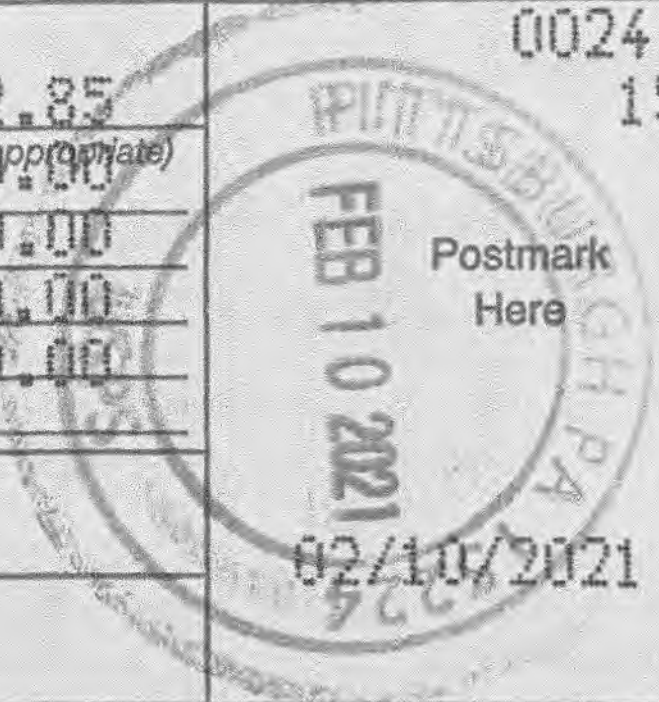
Street and Apt. No., or PO Box No.

3 Service Valley Road

City, State, ZIP+4®

Barboursville, WV 25504

0024
15





1700 MacCorkle Ave. SE
P.O. Box 1273
Charleston, WV 25325

February 10, 2021

CONSOL RCPC, LLC
1000 Consol Energy Drive, Suite 100
Canonsburg, PA 15317

Columbia Gas Transmission, an underground natural gas storage operator, is planning to plug and abandon a storage well (API # 47-051-00269-00-00) in Marshall County, WV. Records indicate that CONSOL RCPC, LLC may own the coal on subject property.

To comply with WV DEP Code, Columbia is required to provide the coal owner the following documents as notification and for processing.

- WV DEP form WW-4A (Notice of Application to Plug and Abandon a Well)
- WV DEP form WW-4B (Application for a Permit to Plug and Abandon)
- Copy of survey plat
- Proposed method of plugging
- Wellbore diagram (prior to plugging)
- Wellbore diagram (proposed plugging)

If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink that reads "Brad Nelson".

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

4705100269P

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Canonsburg, PA 15317

OFFICIAL USE

Certified Mail Fee \$3.60

\$ 2.25

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ 0.00

Return Receipt (electronic) \$ 0.00

Certified Mail Restricted Delivery \$ 0.00

Adult Signature Required \$ 0.00

Adult Signature Restricted Delivery \$ 0.00

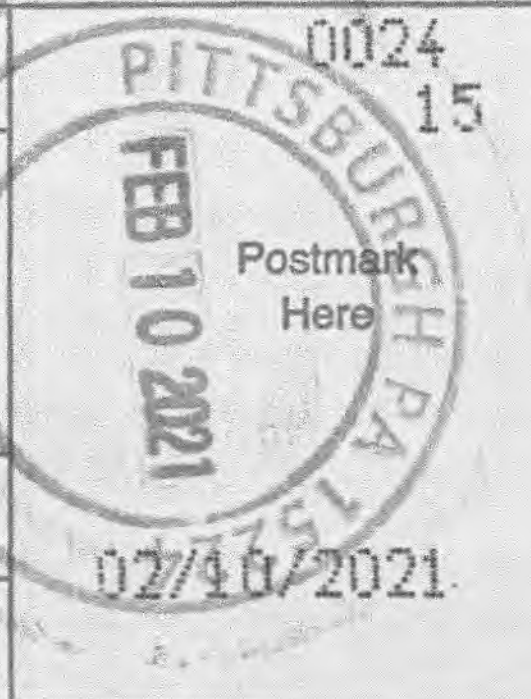
Postage \$1.80

\$

Total Postage and Fees

\$8.25

\$



Sent To

CONSOL RCPC, LLC

Street and Apt. No., or PO Box No.

1000 Consol Energy Drive, Suite 100

City, State, ZIP+4®

Canonsburg, PA 15317

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FEB 25 2021
WV Department of Environmental Protection

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CONSOL RCP, LLC
 1000 Consol Energy Drive
 Suite 100
 Canonsburg, PA 15317



9590 9402 4965 9063 0689 90

2 Article Number (Transfer from service label)

7018 3090 0001 7216 1815

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

Natalie Cardinale

B. Received by (Printed Name) C. Date of Delivery

Natalie Cardinale

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
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 - Collect on Delivery Restricted Delivery
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 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery
- I Restricted Delivery



1700 MacCorkle Ave. SE
P.O. Box 1273
Charleston, WV 25325

February 10, 2021

Murray Energy Corporation
American Consolidated Natural Resources, Inc.
Attn: Mason Smith
46226 National Road
St. Clairsville, OH 43950

Columbia Gas Transmission, an underground natural gas storage operator, is planning to permanently plug and abandon a storage well (API # 47-051-00269-00-00) in Marshall County, WV. Records indicate that Murray Energy (American Consolidated Natural Resources, Inc.) may own the coal on subject property.

To comply with WV DEP Code, Columbia is required to provide the coal owner the following documents as notification and for processing.

- WV DEP form WW-4A (Notice of Application to Plug and Abandon a Well)
- WV DEP form WW-4B (Application for a Permit to Plug and Abandon)
- Copy of survey plat
- Proposed method of plugging
- Wellbore diagram (prior to plugging)
- Wellbore diagram (proposed plugging)

If you have questions, feel free to call.

Regards,

A handwritten signature in blue ink that reads "Brad Nelson".

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

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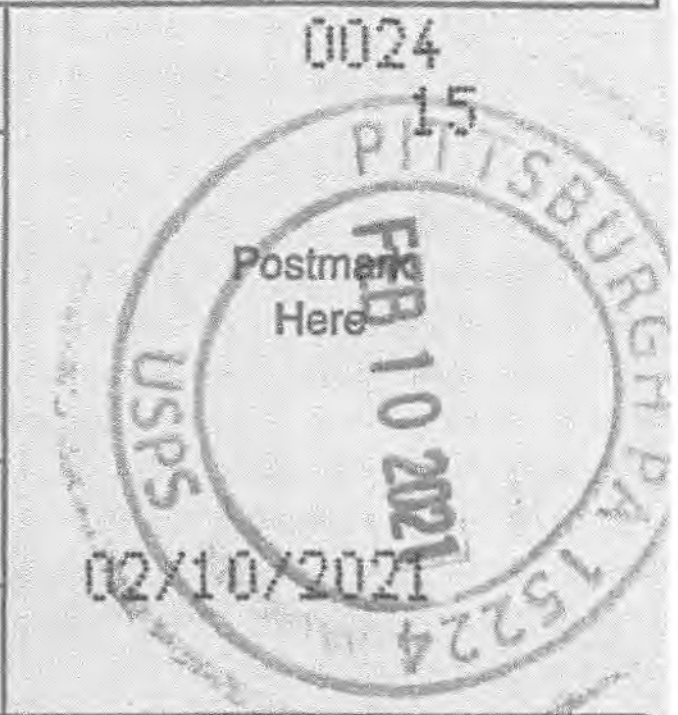
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FEB 9 5 2021
U.S. Department of
Justice

For delivery information, visit our website at www.usps.com®.

Saint Clairsville, OH 43950

OFFICIAL USE

Certified Mail Fee	\$3.60
Extra Services & Fees (check box, add fee, as appropriate)	\$2.85
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.80
Total Postage and Fees	\$8.25



Sent To

Murray Energy Corporation, America's Consolidated Natural Res. Inc.

Street and Apt. No., or PO Box No.

46226 National Road

City, State, ZIP+4®

St. Clairsville, OH 43950

47091002699

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Murray Energy Corporation
 American Consolidated Natural Resources, Inc.
 46226 National Road
 St. Clairsville, OH 43950



9590 9402 4965 9063 0689 83

2. Article Number (Transfer from service label)

7018 3090 0001 7216 1822

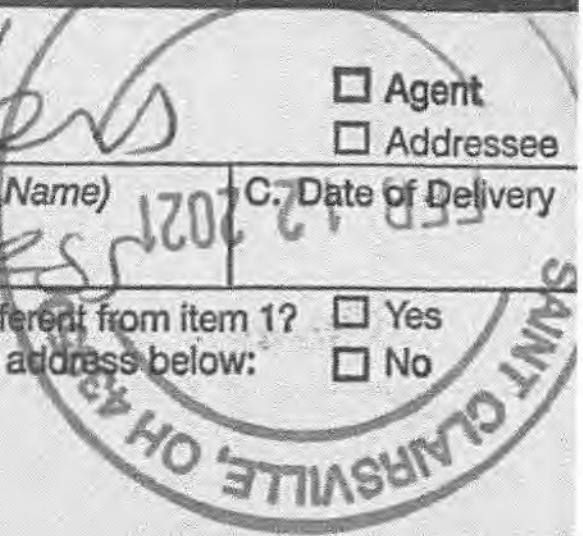
COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
Rick Hess

B. Received by (Printed Name) *Rick Hess*

C. Date of Delivery *FEB 12 2021*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No



3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
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<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail™	
<input type="checkbox"/> Insured Mail Restricted Delivery	

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

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed (HUC 10) Valley Run - A Tributary of Fish Creek Quadrangle Wileyville, WV

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Fresh water, cement returns, bentonite gel, NaCl salt

Will a synthetic liner be used in the pit? Yes No If so, what ml? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 34-119-28776, 34-167-23862)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Appalachian Water Services, Station W1 Ronco WTP, Masontown, PA - Permit 2608201)

Will closed loop system be used? If so, describe: No

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? _____

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WV Department of
Environmental Protection

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 fine or imprisonment.

Company Official Signature Brad Nelson

Company Official (Typed Name) Brad Nelson

Company Official Title Storage Engineer

Commonwealth of Pennsylvania

County of Allegheny

Subscribed and sworn before me this 9 day of February, 2021

Elaine Mybski

Elaine Mybski

Notary Public

My commission expires 5/11/2022

04/09/2021

Commonwealth of Pennsylvania - Notary Seal
Elaine Rybski, Notary Public
Allegheny County
My commission expires May 11, 2022
Commission number 1332803

Proposed Revegetation Treatment: Acres Disturbed <1.0 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Annual Rye	40

Seed Type	lbs/acre
Orchard Grass and/or Tall Fescue	29
Birdsfoot trefoil (empire)	9
Annual Rye	12

For wetland areas: Annual Rye (40 lbs/acre) until indigenous plants re-establish cover.

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: Bang Stiles

Comments: _____

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Environmental Protection

Title: Bang Stiles inspector Date: 2-11-21

Field Reviewed? Yes No

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

Operator Name: Columbia Gas Transmission, LLC
Watershed (HUC 10): Valley Run - A Tributary of Fish Creek Quad: Wileyville, WV
Farm Name: _____

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubricants will be stored on site, but located within secondary containment.
Accidental release from well fluids and spills from construction equipment are the only sources of contaminate to groundwater.
All accumulated fluids to be hauled off site to UIC disposal facility.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

All construction equipment will be inspected daily for leaks. Spill kits will be on site.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

The closest water body is Valley Run, approximately 0.71 miles to the NW.
The nearest Wellhead Protection Area is approximately 6.98 mi. to the SE - (PWSID WV 3305202 Hundred Littleton PSD).

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4. Summarize all activities at your facility that are already regulated for groundwater protection.

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N/A

WV Department of
Environmental Protection

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

04/09/2021

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

During routine tailgate meetings groundwater protection will be a topic of discussion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

No fertilizer will be stored on site. Small quantities of fuel, oil, and lubrications will be stored on site, but located within secondary containment. Construction equipment will be inspected daily for leaks or spills.

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FEB 25 2021

Signature: Bud Hol

WV Department of
Environmental Protection

Date: 2/17/21

04/09/2021

4705100269P

WV DEP Reclamation Site Overview / Detail
Victory B 4309 (API 051-00269)
- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards.
- Existing drainage, culverts, and road ditches to be maintained.
- Minor grading and surface material to be applied as needed.



Legend
● Victory B - 04309
○ VB 4309 LOD
■ VB 4309 Access Road

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WV Department of
Environmental Protection

Google Earth

WV DEP Reclamation Site Overview / Detail

Victory B 4309 (API 051-00269)

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards.
- Existing drainage, culverts, and road ditches to be maintained.
- Minor grading and surface material to be applied as needed.

17051009699



Pit A
50' x 10' x 4' deep.

Victory B - 04309

Pit B
50' x 10' x 4' deep.

Existing

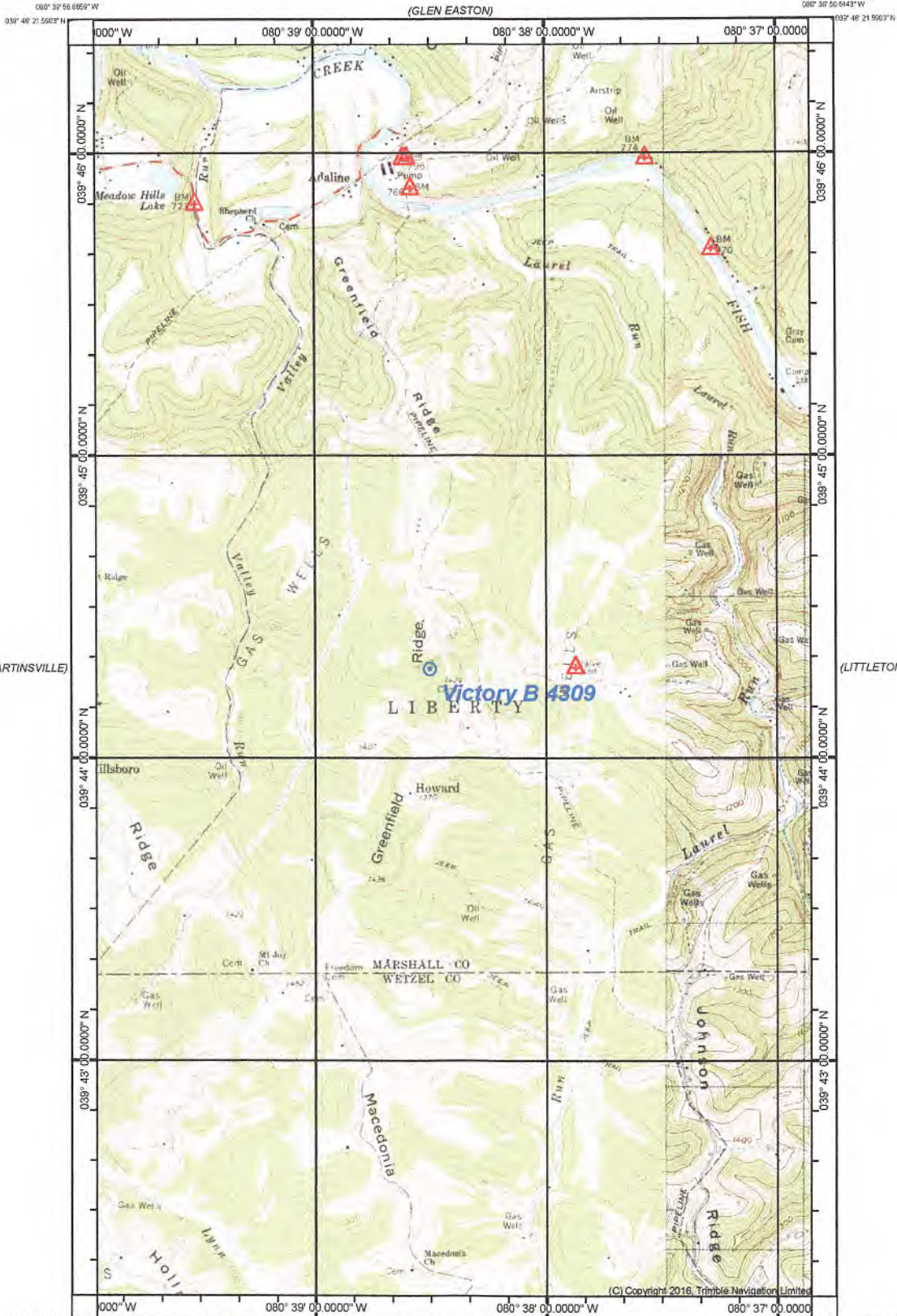
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WILEYVILLE QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(CAMERON)



(POWHATAN POINT)



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WV Department of
Environmental Protection

(PORTERS FALLS)

Produced by Trimble Terrain Navigator Pro
Topography based on USGS 1:24,000 Maps

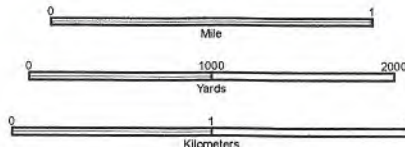
North American 1983 Datum (NAD83)

To place on the predicted North American 1927 move the
projection lines 9M N and 17M E

Declination



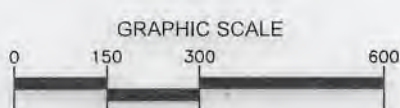
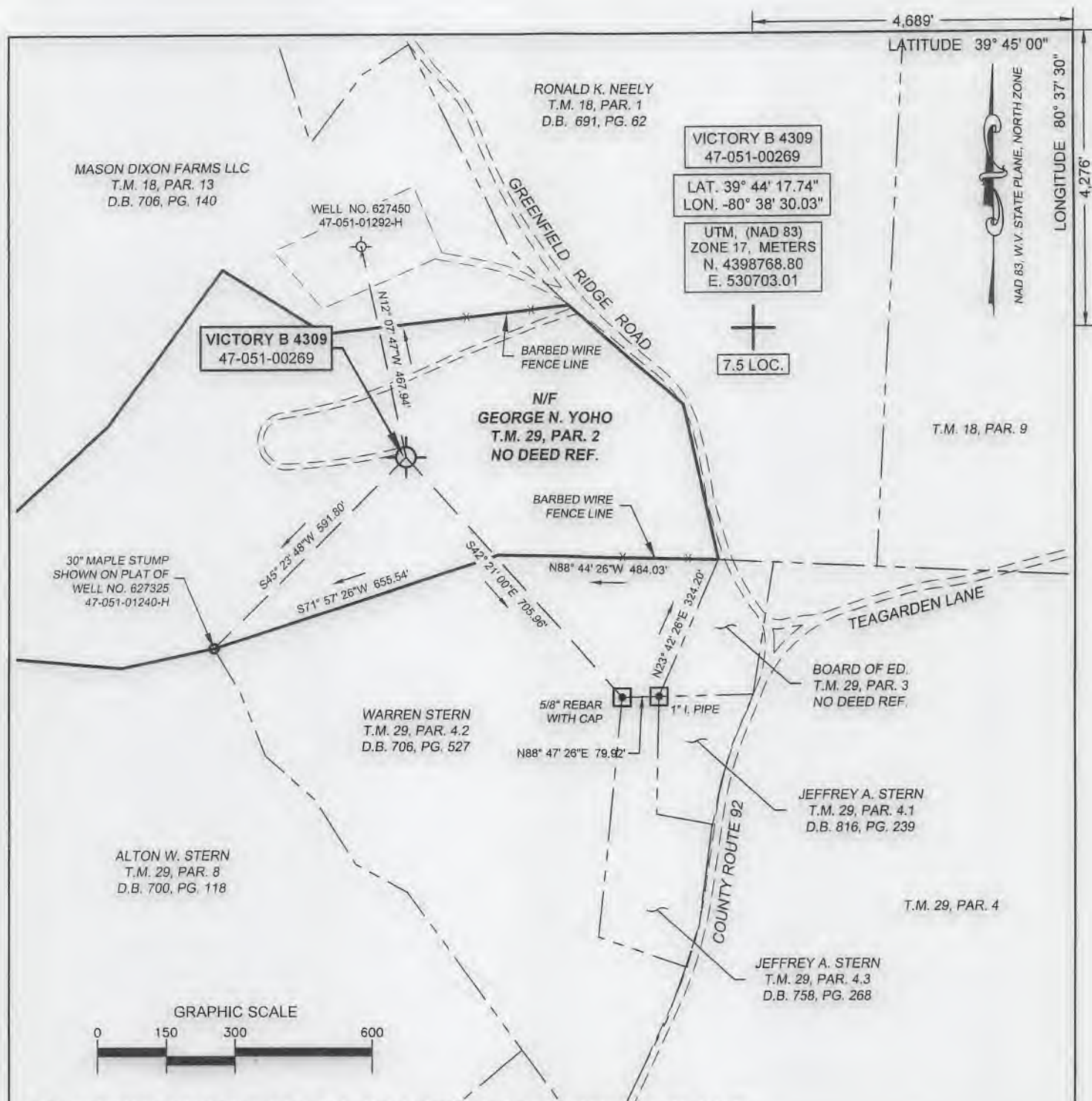
(PINE GROVE)
SCALE 1:24000



CONTOUR INTERVAL 20 FT

39080-F5-TM-024
WILEYVILLE, WV
JAN 1, 1976

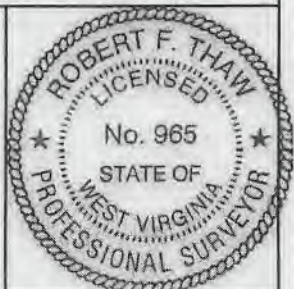
04/09/2021



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-3079-001-022
 DRAWING No. VICTORY B-4309
 SCALE 1"=300'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE R10
GPS UNIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DIVISION OF ENVIRONMENTAL PROTECTION.
 (SIGNED) [Signature]
ROBERT F. THAW PS #965



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

DATE DECEMBER 16 2020
 OPERATOR'S WELL No. 4309
 API WELL No. 47 051 - 00269P

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 051 PERMIT 00269P
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1306.0 WATER SHED VALLEY RUN - A TRIBUTARY OF FISH CREEK
 DISTRICT LIBERTY COUNTY MARSHALL
 QUADRANGLE WILEYVILLE, WV

SURFACE OWNER N/F GEORGE N. YOHO ACREAGE 28
 OIL & GAS ROYALTY OWNER GEORGE N. YOHO
 LEASE ACREAGE 28 LEASE No. 3027646-000

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION MAXTON/BIG INJUN ESTIMATED DEPTH 3180

WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JAMES AMOS
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS 48 COLUMBIA GAS ROAD SANDYVILLE, WV 25275

04/09/2021



1700 MacCorkle Ave SE
P.O. Box 1273
Charleston, WV 25325

February 17, 2021

WV DEP – Office of Oil & Gas
601 57th Street, SE
Charleston, WV 25304-2345

Enclosed is a plugging permit application for the following Columbia Gas Transmission existing storage well:

Victory B 4309 (API 051-00269)

Please return permit to:

Columbia Gas Transmission, LLC
455 Racetrack Road
Washington, PA 15301
Attn: Brad Nelson

*CK#052466
Amt \$100
Date 1/14/21*

If you have questions, feel free to call.

Regards,

Brad Nelson

Brad Nelson
Storage Engineer
TC Energy (Columbia Gas Transmission, LLC)
brad_nelson@tcenergy.com
off: 724-223-2753
cell: 724-250-0610

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WV Department of
Environmental Protection