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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, September 10, 2018  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC  
1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 2589  
47-051-00591-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a faint, larger version of the signature.

Operator's Well Number: 2589  
Farm Name: MATHEWS, R. E.  
U.S. WELL NUMBER: 47-051-00591-00-00  
Vertical Plugging  
Date Issued: 9/10/2018

Promoting a healthy environment.

## PERMIT CONDITIONS

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

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### CONDITIONS

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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.

47-051-00591P

WW-4B  
Rev. 2/01

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1) Date 7/3, 20 18  
2) Operator's  
Well No. Victory B 2589  
3) API Well No. 47-051-00591

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 1158.0 ft Watershed Big Run - tributary of Fish Creek  
District Liberty County Marshall Quadrangle Cameron, WV

6) Well Operator Columbia Gas Transmission, LLC 7) Designated Agent James Amos  
Address 1700 MacCorkle Ave SE Address 48 Columbia Gas Rd  
Charleston, WV 25325 Sandyville, WV 25275

8) Oil and Gas Inspector to be notified Name James Nicholson  
Address PO Box 44  
Moundsville, WV 26041  
9) Plugging Contractor Name Contractor Services Inc  
Address 929 Charleston Rd  
Spencer, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:  
\* refer to "prior to P&A" and "proposed P&A" wellbore schematics included in permit application  
Kill well. Obtain cement bond log. Clean well to TD and install bottom cement plug from TD - 1950'. Pull all 7" csg  
that is free. If 2nd Salt Sand, Gas Sand, or Big Dunkard are left behind 7" casing then perforate above and  
below each zone (except do not perf above Big Dunkard). Spot cement plug from top of last plug to 1350' -  
if 7" csg was perf'd then attempt to squeeze cement. Pull all 8-5/8" casing that is free. If Big Dunkard left behind  
pipe then perforate 8-5/8" csg @ 1240', spot cement plug from top of last plug to 800'. and attempt to squeeze  
cement. **If Pittsburgh Coal** left behind pipe then perforate above and below, spot balanced cement plug from top  
of last plug to surface, attempt to squeeze. Top off all annuli with cement. Install 7" casing monument.

COAL BLKCE SOFT 365' - 368' }  
NATIVE COAL BLKCE SOFT 420' - 425' } IF LEFT BEHIND A CASING PERFORATE ABOVE AND BELOW AND  
MARLETTON COAL 670' - 675' } COURSE WITH CLASS A CEMENT PLUG. WILL CEMENT TO SURFACE.

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

Work order approved by inspector James Nicholson Date 7/26/18

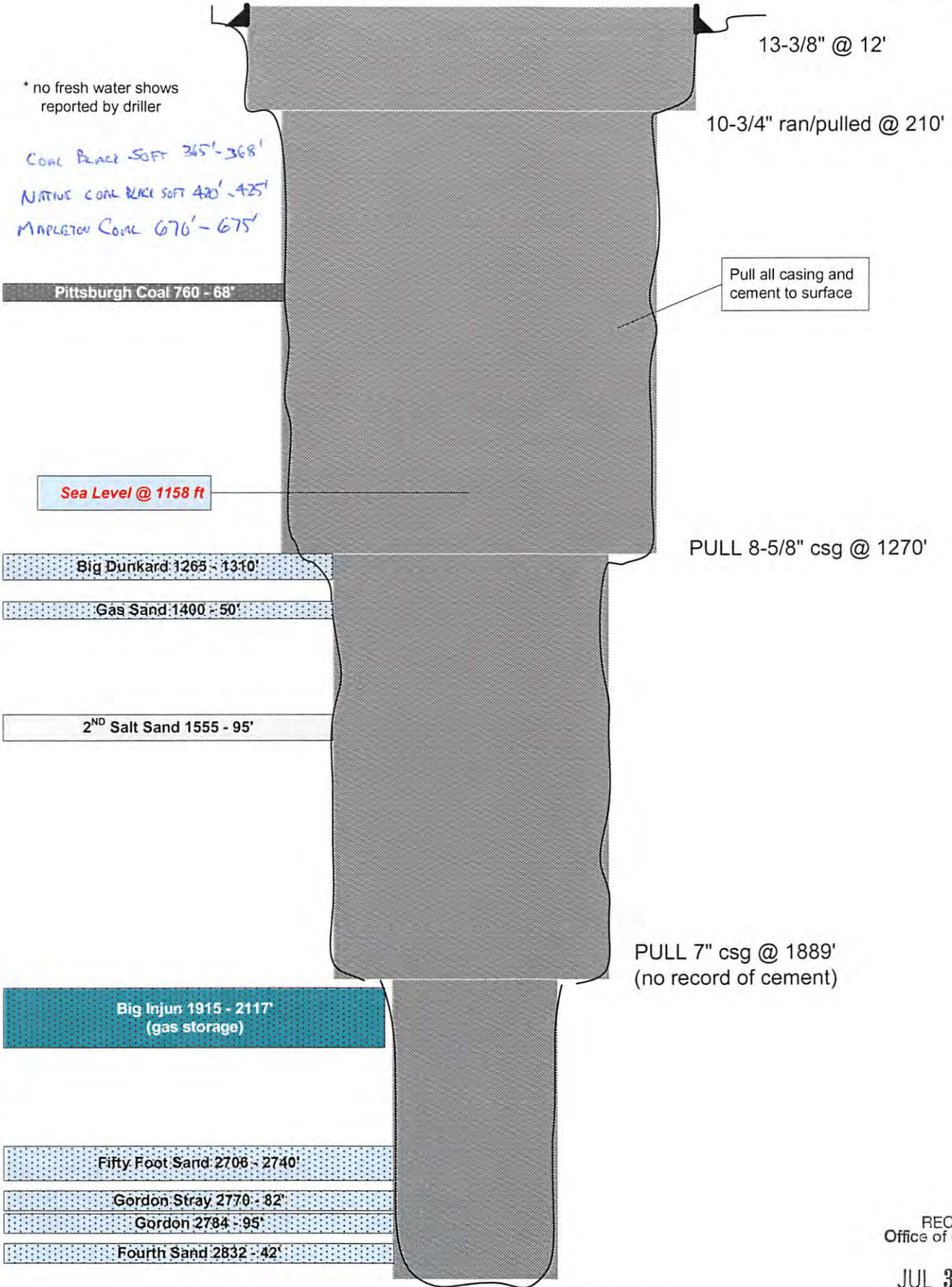


~ not to scale ~

# VICTORY B 2589

## Proposed P&A

(as of 6/7/18)



TD 2971'

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~ not to scale ~

# VICTORY B 2589

## Prior to P&A

(as of 6/7/18)

\* no fresh water shows reported by driller

COAL { 365'-368'  
420'-425'  
670'-675'

Pittsburgh Coal 760 - 68'

Sea Level @ 1158 ft

Big Dunkard 1265 - 1310'

Gas Sand 1400 - 50'

2<sup>ND</sup> Salt Sand 1555 - 95'

Big Injun 1915 - 2117'  
(gas storage)

Fifty Foot Sand 2706 - 2740'

Gordon Stray 2770 - 82'

Gordon 2784 - 95'

Fourth Sand 2832 - 42'

13-3/8" @ 12'

10-3/4" ran/pulled @ 210'

8-5/8" csg @ 1270'  
(no record of cement)

7" csg @ 1889'  
(no record of cement)

TD 2971'

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Division..... Company **051-591**  
 Record of Well No. 2589 on Farm Acres  
 Field District Township County State  
 Rig Commenced 19 , Completed 19  
 Drilling Commenced 19 , Completed 19  
 Contractor Address  
 Driller' Name

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**CASING AND TUBING RECORD**

	Conductor	12"	10"	8 1/2"	7"	6 1/2"	5 1/2"	4"	3"
Used in Drig.									
Left in Well									

**PACKER RECORD**

**SHOOTING RECORD**

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

**VOLUME AND PRESSURE**

Date	Reading In Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hr. R. P.	Max. R. P.	H.	
						1	5	10	20	60				

**TOTAL INITIAL OPEN FLOW**

**CUBIC FEET PER 24 HOURS**

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS		
Shale brown soft	0	12	12	Lime dark hard	1015	1025 /
Lime white soft	12	40	28	Red Rock Red soft	1025	1060 3.
Slate dark soft	40	60	20	Lime dark soft	1060	1110 5.
Sand dark soft	60	100	40	Shale dark soft	1110	1125 1.
Slate dark soft	100	135	35	Gray Rock gray soft	1125	1150 2.
Lime white hard	135	175	40	Red Rock red soft	1150	1165 1.
Slate dark soft	175	210	5	Slate dark soft	1210	1265 5.
Lime dark hard	210	325	115	Slate white soft	1310	1360 3.
Bluff Sand white soft	325	365	40	Coal black soft	1360	1365 6.
Coal Black soft	365	368	3	Lime dark hard	1365	1375 10
Lime dark hard	368	420	52	Sand white hard	1375	1385 10
Native Coal black soft	420	425	5	Slate dark soft	1385	1400 10
Lime dark hard	425	440	15	Slate dark soft	1450	1475 2.
Sand white hard	440	475	35	Sand white broken	1475	1480 3
Lime dark hard	480	670	90	Shale dark soft	1480	1520 4
Mapletown Coal black soft	670	675	5	Sand dark hard	1520	1540 2
Lime dark hard	675	690	15	Slate dark soft	1540	1555 13
Slate dark soft	690	755	65	Slate dark soft	1595	1640 4.
Lime dark hard	755	760	5	Sand dark broken	1640	1690 3
Lime dark hard	768	835	67	Slate dark soft	1690	1700 10
Red rock red soft	835	840	5	Slate dark soft	1810	1830 2
Gritty Lime white hard	840	860	20	Lime dark hard	1830	1840 10
Slate dark soft	860	880	20	Slate dark soft	1840	1850 10
Red Rock Red Soft	880	915	35	Pencil cave dark soft	1861	1865 3
Sand light hard	915	950	35	Shells white broken	2170	2200 3
Red Rock red soft	950	960	10	Lime white broken	2200	2400 2.
Gray Rock gray soft	975	990	15	Slate dark soft	2400	2450 3
Red Rock red soft	990	1015	25	Lime dark hard	2450	2508 3

Examined above information and measurements and found to be correct by \_\_\_\_\_  
 Examined and Approved by \_\_\_\_\_  
 Contractor \_\_\_\_\_ 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.

051-591

30 foot dark hard	2508	2570	62
Slate dark soft	2570	2590	20
Lime dark hard	2590	2600	10
Slate pink soft 2600	2600	2610	10
Lime dark hard	2610	2640	30
Slate dark soft 2640	2640	2660	20
Lime dark hard	2660	2685	25
Slate light soft	2685	2706	21
Lime light broken	2740	2770	30
Gordon Stray dark hard	2770	2782	12
Slate pink soft	2782	2784	2
Slate dark soft	2795	2810	15
Lime light broken	2810	2832	22
Slate light soft	2842	2870	28
Lime light hard	2870	2875	5
Slate dark soft	2875	2882	7
Slate dark soft	2890	2911	21

WELL RECORD

Well No. 2589

Farm Wm. Mathews

District L'berly

County Marshall

State W. Va.

Owned by

Division Cameron

Date October 2, 1920

Entered W. R. Book Folio

By

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47-051-00591 P

WW-4A  
Revised 6-07

1) Date: 7/3/18  
2) Operator's Well Number  
Victory B 2589  
3) API Well No.: 47 - 051 - 00591

**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>McElroy Coal Company</u>	Name <u>not operated</u>
Address <u>1000 Consol Energy Dr</u>	Address _____
<u>Canonsburg, PA 15317</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidated Coal</u>
_____	Address <u>1000 Consol Energy Dr</u>
_____	<u>Canonsburg, PA 15317</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
_____	_____
6) Inspector <u>James Nicholson</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 44</u>	Name <u>not leased</u>
<u>Moundsville, WV 26041</u>	Address _____
Telephone <u>304-552-3874</u>	_____
_____	_____

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**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 Columbia Gas Transmission, LLC  
 By: James Amos  
 Its: Senior Engineer  
 Address 48 Columbia Gas Rd  
Sandyville, WV 25275  
 Telephone 304-373-2412

Subscribed and sworn before me this 13th day of July  
Michael D McClung Notary Public  
 My Commission Expires 6/19/2022

**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

WW-9  
(5/16)

API Number 47 - 051 - 000591  
Operator's Well No. Victory B 2589

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) Big Run - tributary of Fish Creek Quadrangle Cameron, 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

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Proposed Disposal Method For Treated Pit Wastes:

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- Land Application (if selected provide a completed form WW-9-GPP)
- Undergound 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)

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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?

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.

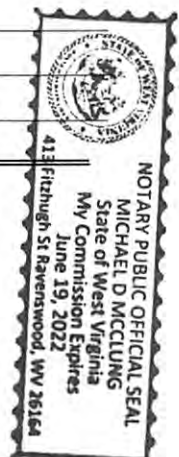
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 James E. Amos  
Company Official (Typed Name) James E. Amos  
Company Official Title Senior Engineer, Well Engineering & Technology

Subscribed and sworn before me this 7/13th day of July, 20 18  
Michael D McClung Notary Public

My commission expires 6/19/2022





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	Seed Type	lbs/acre
<u>Annual Rye</u>	<u>40</u>	<u>Orchard Grass and/or Tall Fescue</u>	<u>29</u>
		<u>Birdsfoot Trefoil (empire)</u>	<u>9</u>
		<u>Annual Rye</u>	<u>12</u>

Upland

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: *Jim Wilbur*

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: *Oil & Gas Inspector*

Date: *7/20/18*

Field Reviewed? (  ) Yes (  ) No

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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): Big Run - tributary of Fish Creek Quad: Cameron, WV  
Farm Name: Matthews, R. E.

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 lubrications will be stored on site, but located within secondary containment.

Spills from construction equipment is the only source of contaminate to groundwater.

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.

Big Run is +/-190 east of wellhead. The PA PWSID WV9925016 (Covestro - FKA Bayer Material) intersects protection area. Refer to enclosed assessment letter from Department of Health and Human Resources, Source Water Assessment and Protection department.

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

N/A

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

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 spill.

Signature: 

Date: 07/3/18

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STATE OF WEST VIRGINIA  
 DEPARTMENT OF HEALTH AND HUMAN RESOURCES  
 Bureau for Public Health

Bill J. Crouch  
 Cabinet Secretary

Office of Environmental Health Services

Rahul Gupta, MD, MPH, MBA, FACP  
 Commissioner  
 State Health Officer

February 16, 2018

William Timmermeyer  
 TransCanada -Columbia Elipalina Group  
 1700 MacCorkle Ave., SE  
 Charleston, WV 25314

Re: WV DEP SWAP Info Request  
 Protection Areas for 8 wells  
 Randolph/Preston/Marshall Counties,

Dear Mr. Timmermeyer:

This is a response to the informational request dated February 15, 2018 concerning protection areas near eight wells.

Based on the current information, we have found the following:

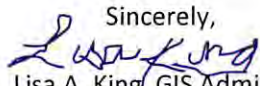
Well	PA PWSID	PA Type	System Name	County	Note
Glady 7455	WV9942049	ZPC	USFS Middle Mountain Cabins HP	Randolph	Distance 1 mile, does not intersect any PA
Glady 7459					Out of WV State
Terra Alta South 7500	WV3303908	ZPC	Kingwood Water Board Primary	Preston	Intersects Protection Area
Victory B 2265	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
	WV3304803	ZPC	Sistersville Municipal Water	Marshall	Intersects Protection Area
Victory B 2345	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
	WV3304803	ZPC	Sistersville Municipal Water	Marshall	Intersects Protection Area
Victory B 2589	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
Victory B 3522	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Intersects Protection Area
Victory B 4502	WV9925016	ZPC	Covestro (FKA Bayer Material)	Marshall	Distance 250 feet, does not intersect any PA

I hope the information provided helps you with the completion of your project. If you have any questions, please do not hesitate to contact me at (304) 356-4309.

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Sincerely,  
  
 Lisa A. King, GIS Administrator  
 Source Water Assessment and Protection

CC: William J. Toome



16500-150-47



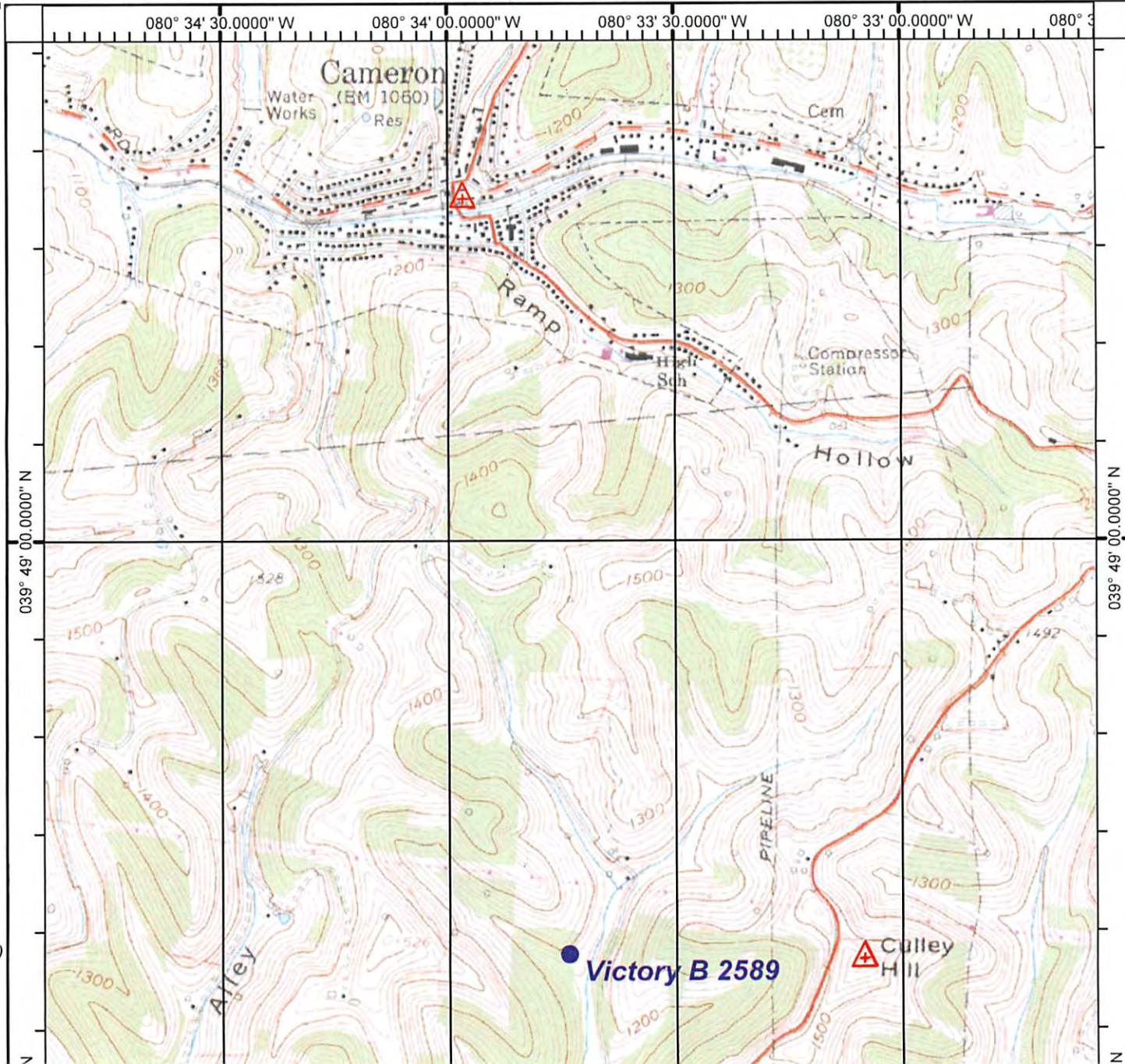
CAMERON QUADRANGLE  
WEST VIRGINIA  
TOPOGRAPHIC SERIES

(Outdoor Contour Map)

(MOUNDSVILLE)

(MAJORSVILLE)

080° 34' 30.0000" W 080° 34' 00.0000" W 080° 33' 30.0000" W 080° 33' 00.0000" W 080° 32' 30.0000" W  
039° 49' 51.1755" N 039° 49' 00.0000" N 039° 49' 00.0000" N 039° 49' 00.0000" N 039° 49' 00.0000" N

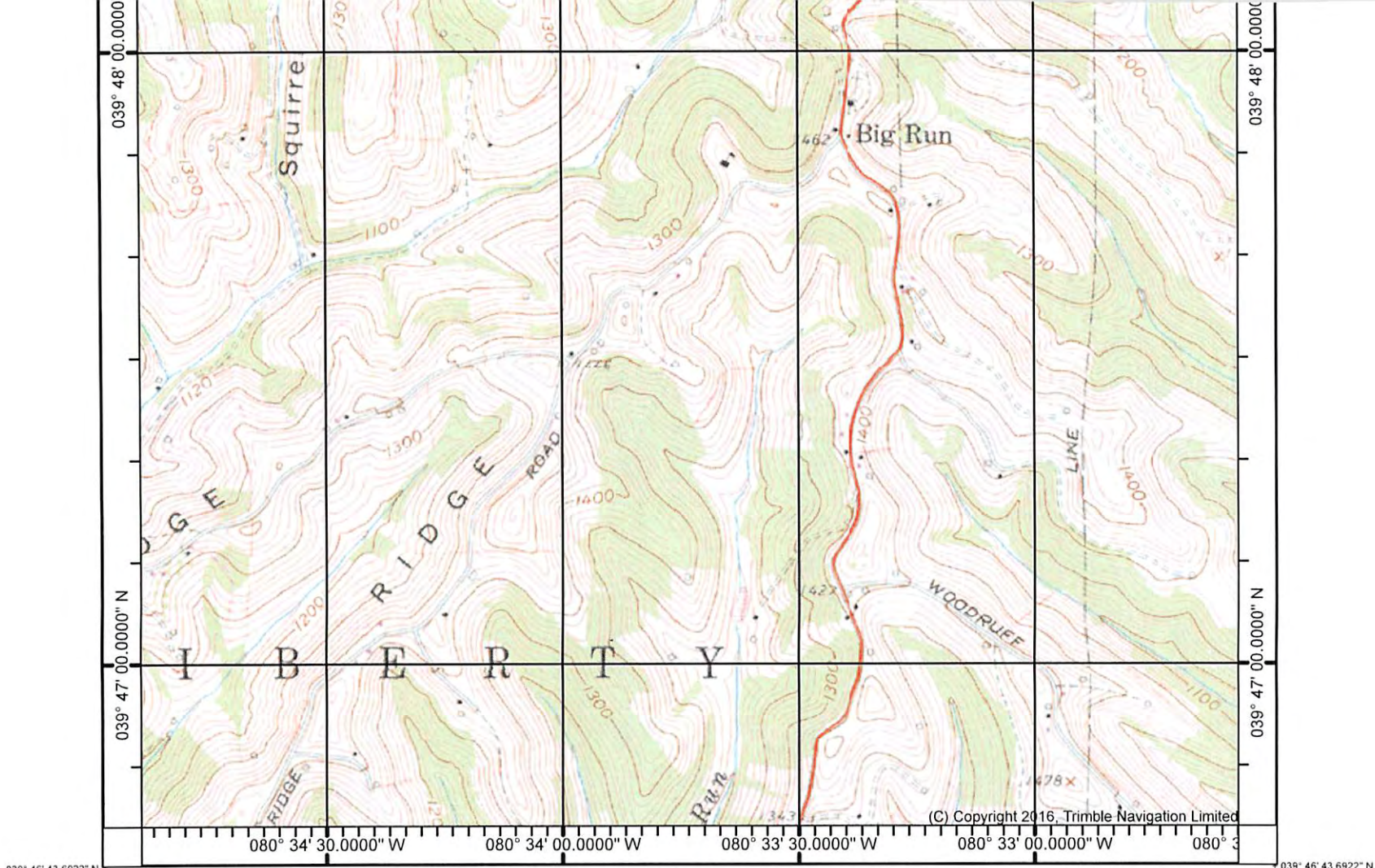


(Outdoor Contour Map)

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(GLEN EASTON)



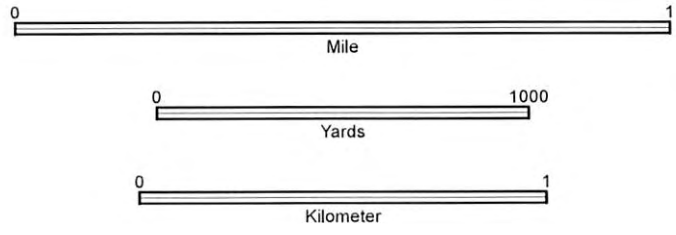
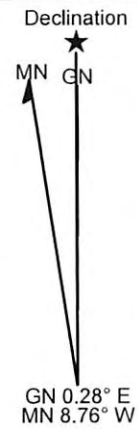


039° 46' 43.6922" N  
 080° 34' 30.0000" W (LITTLETON) SCALE 1:18056  
 080° 32' 33.4185" W  
 039° 47' 00.0000" N  
 039° 48' 00.0000" N  
 Printed: Fri Nov 10, 2017

(WILEYVILLE)

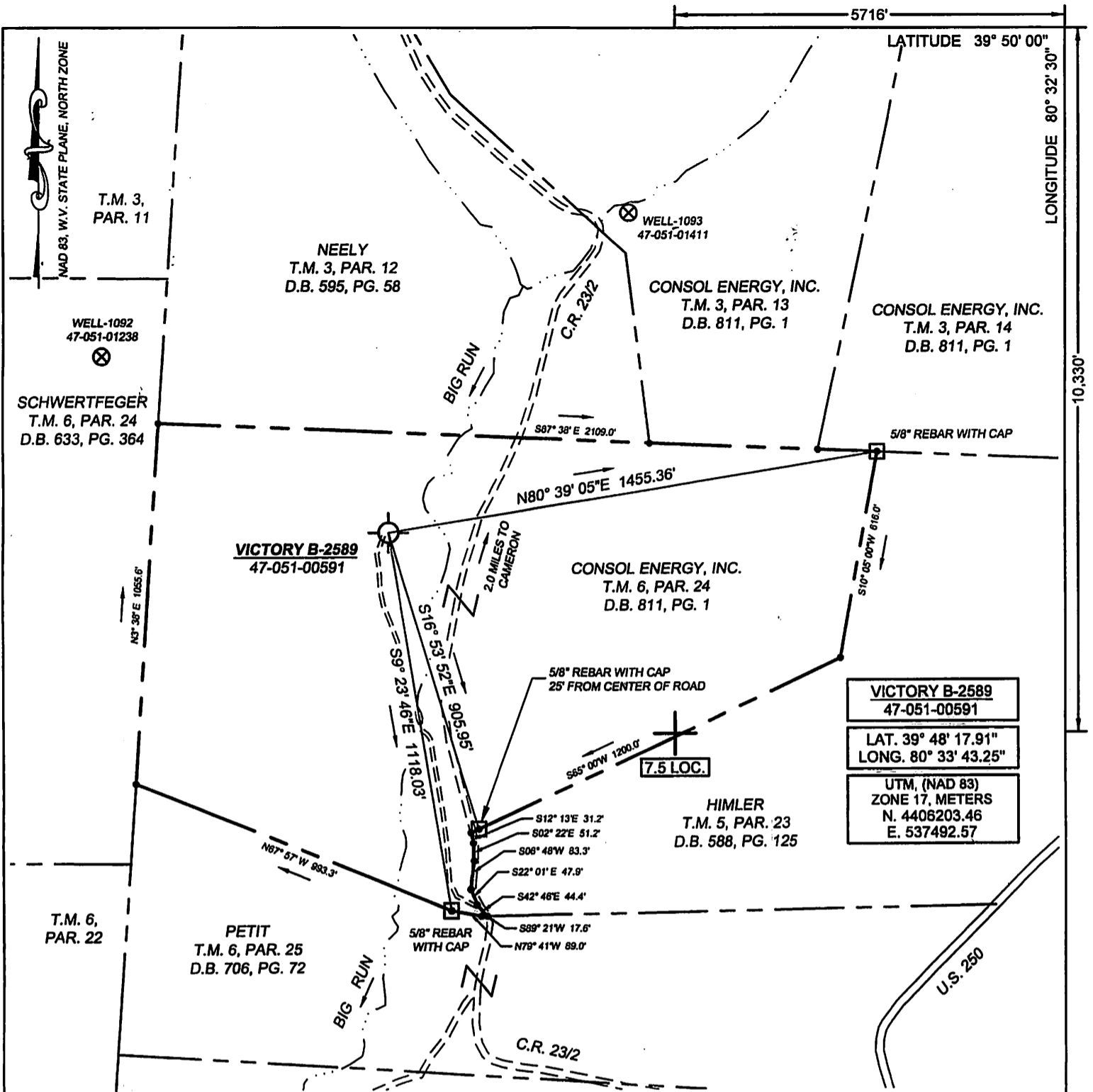
(HUNDRED)

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



CONTOUR INTERVAL 20 FT

39080-G4-TM-024  
 CAMERON, WV  
 JAN 1, 1988



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

FILE No 1701-2345-001-026  
 DRAWING No. VICTORY B-2589  
 SCALE 1"=400  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION TRIMBLE RB-3  
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  
 NITRO, WV



DATE MAY 30 2018  
 OPERATOR'S WELL No. 2589  
 API WELL No. 47 051 - 00591P

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE 47 COUNTY 051 PERMIT 00591P  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1158.0' WATER SHED BIG RUN - A TRIBUTARY OF FISH CREEK  
 DISTRICT LIBERTY COUNTY MARSHALL

QUADRANGLE CAMERON, WV  
 SURFACE OWNER CONSOL ENERGY, INC. ACREAGE 64.7+/-  
 OIL & GAS ROYALTY OWNER LINDA G. MATHEWS, ET AL

LEASE ACREAGE 201.5 LEASE No. 3002181-000  
 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 BIG INJUN ESTIMATED DEPTH 3141  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT JAMES AMOS  
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.  
25325-1273 25325-1273