

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

Wednesday, September 5, 2018 WELL WORK PLUGGING PERMIT Vertical Plugging

COLUMBIA GAS TRANSMISSION, LLC 1700 MACCORKLE AVENUE SE

CHARLESTON, WV 25314

Re: Permit approval for 1-4502 47-051-00320-00-00

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: 1-4502 Farm Name: CONNELLY, C. F. U.S. WELL NUMBER: 47-051-00320-00-00 Vertical Plugging Date Issued: 9/5/2018

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

		47-051-003201
WW-4 Rev.	B 2/01	1) Date 7/3 , 20 18 2) Operator's Well No. Victory B 4502
		3) API Well No. <u>47-051</u> - 00320
	DEPARTMENT OF ENVIR	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PERM	1IT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	d injection/ Waste disposal/
	(If "Gas, Production or Uno	derground storage <u>x</u>) Deep/ Shallow <u>x</u>
5)	Location: Elevation 1213.0 ft	Watershed 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	9)Plugging Contractor Name Contractor Services Inc
	Address PO Box 44	Address 929 Charleston Rd
	Moundsville, WV 26041	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 CBL. Clean/drill to original TD of 3052'. Spot cement plugs from TD to 1000'. Perforate @ 970' and attempt to squeeze cement. Perforate @ 500' and attempt to squeeze cement. Pull all 4-1/2" and 7" casing that is free. Spot cement plugs to surface and top off all annuli. Install monument.

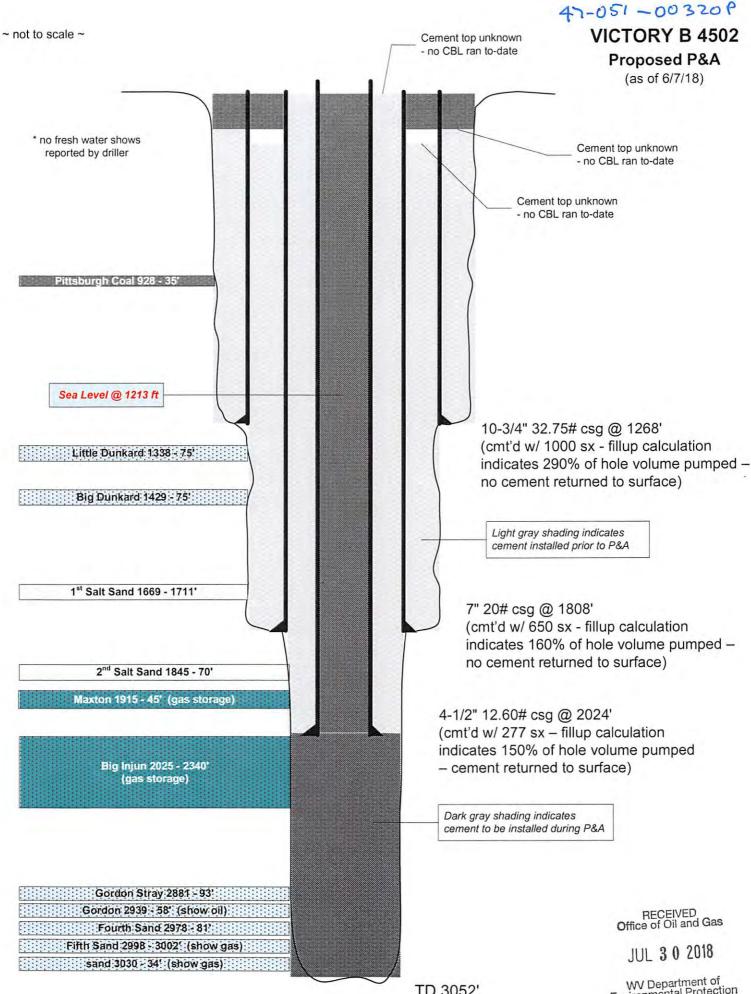
> RECEIVED Office of Oil and Gas

> > JUL 3 0 2018

WV Department of Environmental Protection

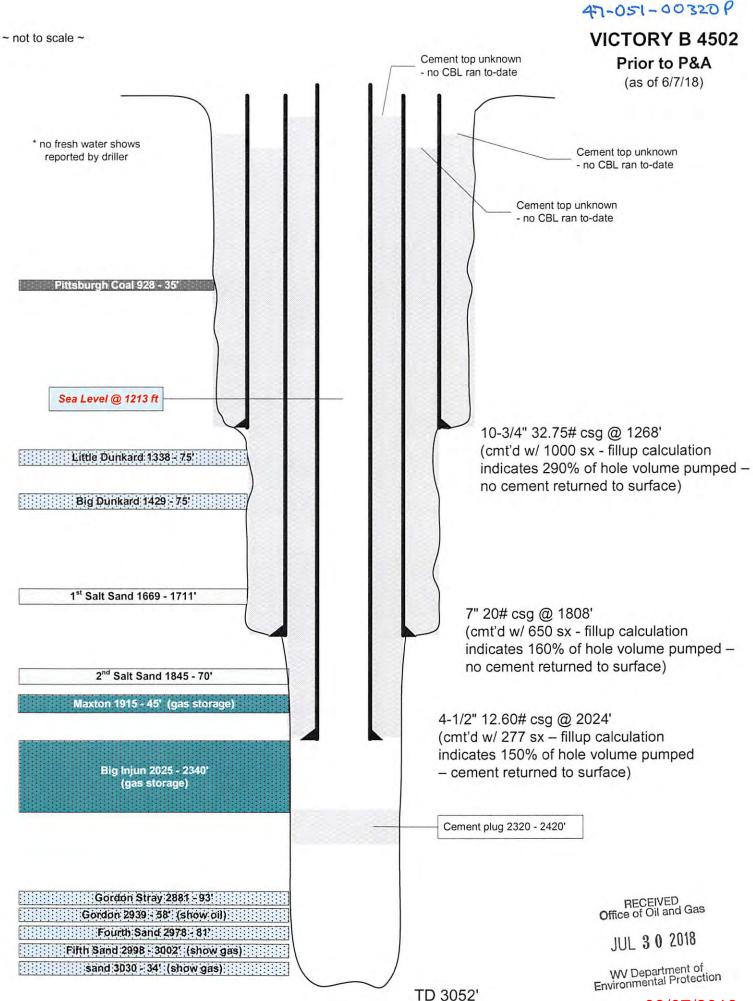
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Jun, Ulahan Work order approved by inspector Date



TD 3052'

WV Department of Environmental Protection 09/07/2018



47-051-00320P

VICTORY B STORAGE FIELD WELL 4502 MARS-320-R GRND. ELEY. = 1218' WELL STATUS: OBSERVATION 1034" H-40, 32.75# .0 CEMENTED WITH 1000 SKS. 14.2* NO RETURN SC.ALE RECEIVED Office of Oil and Gas 924 - 932' = PITTSEURGH CCAL JUL 3 0 2018 WV Department of Environmental Protection 1268' 7" J-55 20# CEMENTED WITH 6505 KS., 14, 6th 14.2# 1426-1504 BIG DUNKARD NO RETURN 1536-1544" FREEPORT COAL 1554-1574" GAS SAND 160E'-1635' E FIRST SALT SAND 1667-1710' & SECOND SALT SAND 1208' 1780'-1810' THIRD SALT SAND 412" J-55, 12.6= CEMENTED WITH 2775KS., 14.5# 1912'-1944' & MAXTON SAND 1955'-1978' ELOWER MAXTON SAND GOCO RETURN 1985'-2048' [BIGLIME 2624' 1/14" OPEN HOLE BIG INJUN SAND 2058'-NOT T.D. = 2320' 2336+ 2320'- 2420'= CEMENT

SEE OTHER SIDE FOR RECONDITIONING AND LOGGING HISTORY . DRAWN BY DR DATE: 1985

	Form	PD-44a	
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COLUMBIA GAS SYSTEM - PITTSBURGH GROUP COMPANIES

WELL LOG SUMMARY

51-003208 6MG 1 2 Sheets of_

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STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL RECORD

Streage GAS Oil or Gas Well

2-1334-4

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	/10ths Merc.	in	Inch	CASING CEM	ENTED	SIZE	No. Ft.	Date		
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REDRILLED AND RECONDITIONED FOR STORAGE IN 1958-1959 STORAGE FORMATIONS: BIGLIME & BIG INJUN OPEN FLOW: 10.6 MCFD DATE: 10-27-59 LOGGING HISTORY ORIGINAL LOGS DATE TYPE LOG 11-19-58 11-19-58 GAMMA RAY-NEUTRON TEMPERATURE SECTION GAUGE SECTION GAUGE 9-2-59 SURVEILANCE LOGS DATE TYPE LCG 8-5-77 GAMMA RAY - NEUTRON GAMMA RAY - DIFFERENTIAL TEMPERATURE SIBILATION SURVEY 8-5-77 GAMMA RAY-T. D.T. NEUTRON GAMMA RAY-DIFFERENTIAL TEMPERATURE 11-15-83 11-15-83 3-6-8.4 EMPTY HOLE CYBER SCAN

BECEIVED Office of Oil and Gas JUL 3 0 2018 WV Department of Environmental Protection

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Examined above	information a	and measuremen	ts and found to	be correct by		Examined a	nid Approv	ed by		E,	viron		Protect	ion

51- 00320P

1502

WRST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL RECORD

Permit No. WELL TO DE	ABANDONED.		Oil or G	
Company CAR HEGIE HATURAL CAS COMPANY Address 1014 Prick Eldg., 72 75 BERSH, R. Farm C. F. COMBLLY Acres 70	Casing and Tobing	Used in Drilling	Left in Well	Packers
Location (waters) FIRE COMME Well No. 2-965 Elev. 1205 District LINERTY County MARGINALL	Size 10 13			Kind of Packer.
The surface of tract is owned in fee by C.F. CONDELLY Address RANNY ILLE OR IO	10		1360 .	Size of
Mineral rights are owned by Q . F . OODD LLY	6 5/8 5 3/16			Depth set
Drilling commenced	3			Perf. top Perf. bottom
Date shot. Depth of shot. Open Flow /10ths Water in	Liners Used			Perf. top Perf. bottom
/10ths Merc. in	CASING CEM	ENTED		No. PT Date
Dil Freah water feet feet	-			FEET INCHES
alt water	FEET		1159	FEET INCHES

Formation	Color	llard or Boft	Тор	Rotlom	Oil Gan or Water	Depth Found	Remarks
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Big Injun Gerdon Stray Cordon Sand	<i>A LINE IM</i> -		2681 8959	2355 2893 2958	Show oil a		
lith Sund 5th Sand Sand			2978 8998 3030	8961 3008 3094	Shew of gas Gas Gas	2,441-2,444 2979 2799 3001-3034	
101	L DEPTH -	6-14-22		505R 1			

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RECEIVED Office of Oil and Gas

JUL 3 0 2018

WV Department of Environmental Protection

47-051-00 320P

1) Date: 7/3/18

2) Operator's Well Number

4502	
4002	

3) API Well No.: 47 -

- 00320

051

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

Victory B

4) Surface Ow	ner(s) to be served:	5) (a) Coal Operator	
(a) Name	Judith Ann Burge & Virginia Lee Bailey	Name	not operated
Address	7828 Silver Lake Ct	Address	
	Westerville, OH 43082		
(b) Name		(b) Coal Own	vner(s) with Declaration
Address		Name	Consolidated Coal
		Address	1000 Consol Energy Dr
			Canonsburg, PA 15317
(c) Name		Name	Office
Address		Address	Office of Oil and Gas
			JUL 3 0 2018
6) Inspector	James Nicholson	(c) Coal Less	
Address	PO Box 44	Name	not leased WV Department of
	Moundsville, WV 26041	Address	Environmental Protection
Telephone	304-552-3874		at , rotection

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	Jane	
	By:	James Amos Jame Zum	1 15 Sta	
	Its:	Senior Engineer	11.2 3	
	Address	48 Columbia Gas Rd	(at a	Ē
		Sandyville, WV 25275	4	
	Telephone	304-373-2412	Fit	
Subscribed and sworn before me thi My Commission Expires Oil and Gas Privacy Notice	lim g 6/	ay of July 2018 Notary Public	ARY PUBLIC OFFICIAL SEAL MICHAEL D MCCLUNG State of West Virginia Av Commission Expires June 19, 2022 rugh St.Ravenswood, WV 26164	

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 <u>depprivacyoffier@wv.gov</u>. 09/07/2018

47-051-003200

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W W-9	
(5/16)	API Number 47 - 051 - 000320
	Operator's Well NoVictory B 4502
DEPARTMENT OF ENVIR OFFICE OF	VEST VIRGINIA CONMENTAL PROTECTION OIL AND GAS SAL & RECLAMATION PLAN
Operator Name Columbia Gas Transmission, LLC	OP Code 307032
Watershed (HUC 10) Fish Creek	Quadrangle Cameron, WV
Do you anticipate using more than 5,000 bbls of water to complet	te the proposed well work? Yes No 🖌
Will a pit be used? Yes <u>No</u>	
If so, please describe anticipated pit waste: fresh wate	r, 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- Other (Explain Appalachian Water Service)	9 for disposal location) vices, Station W1 Ronco WTP, Masontown, PA - Permit 2608201
Will closed loop systembe used? If so, describe: no	
Drilling medium anticipated for this well (vertical and horizontal))? Air, freshwater, oil based, etc. <u>N/A</u>
-If oil based, what type? Synthetic, petroleum, etc	RECEIVED Office of Oil and Gas
Additives to be used in drilling medium?	JUL 3 0 2018
Drill cuttings disposal method? Leave in pit, landfill, removed of	ffsite, etc. N/A
-If left in pit and plan to solidify what medium will be us	sed? (cement, lime, sawdust) subsoils WV Department of Environmental Protection
-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	1753
Company Official Title Senior Engineer, Well Engineering & Technology	413 N
Subscribed and swom before me this 13th day of July , 2018 My commission expires 6/19/2022	OTARY PUBLIC OFFICIALSE MICHAEL D MCCTUCALSE State of West Vibrain My Commission Gaires June 19, 2000 Hithugh St Ravenswood WV 26

47-051-00320P

Operator's Well No. Victory B 4502

tment: Acres Disturbed 1.	0 Prevegetation pH 6.5	_
Tons/acre or to correc	et to pH	
10-10		
00	lbs/acre	
	_Tons/acre	
	Seed Mixtures	
mporary	Permanent Upland]
lbs/acre	Seed Type lbs/acre	
40	Orchard Grass and/or Tall Fescue	29
	Birdsfoot Trefoil (empire)	9
	Annual Rye	12
	Tons/acre or to correct 10-10 00 emporar y Ibs/acre	Tons/acre or to correct to pH 7 10-10 00 lbs/acre Tons/acre Seed Mixtures emporary Permanent Upland lbs/acre Seed Type lbs/acre 40 Orchard Grass and/or Tall Fescue Birdsfoot Trefoil (empire)

Attach:

Field Reviewed?

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.

/)Yes

(

Plan Approved by: June Wellow	
	RECEIVED Office of Oil and Gas
	JUL 3 0 2018
	WV Department of Environmental Protectio

)No

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

Operator Name: Columbia Gas Transmission, LLC

Quad: Cameron, WV

Farm Name: Connelly, C. F.

Watershed (HUC 10): Fish Creek

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.

Fish Creek is +/-850 east of wellhead. The PA PWSID WV9925016 (Covestro - FKA Bayer Material) is 250 feet, does not intersect 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.

WW-9- GPP Rev. 5/16

F	age	<u> L_of</u>	2
API Number 47 -	051	00320	
Operator's Well No	Victory B	4502	

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.

Fim E (in 1/12/18 Signature: Date:

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WV Department of Environmental Protection

47-051-003201



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

Office of Environmental Health Services

Bill J. Crouch Cabinet Secretary Rahul Gupta, MD, MPH, MBA, FACP Commissioner State Health Officer

February 16, 2018

William Timmermeyer TransCanada -Columbia Pipeline 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.

Well	PA PWSID	РА Туре	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
VICIOI Y 0 2345	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

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

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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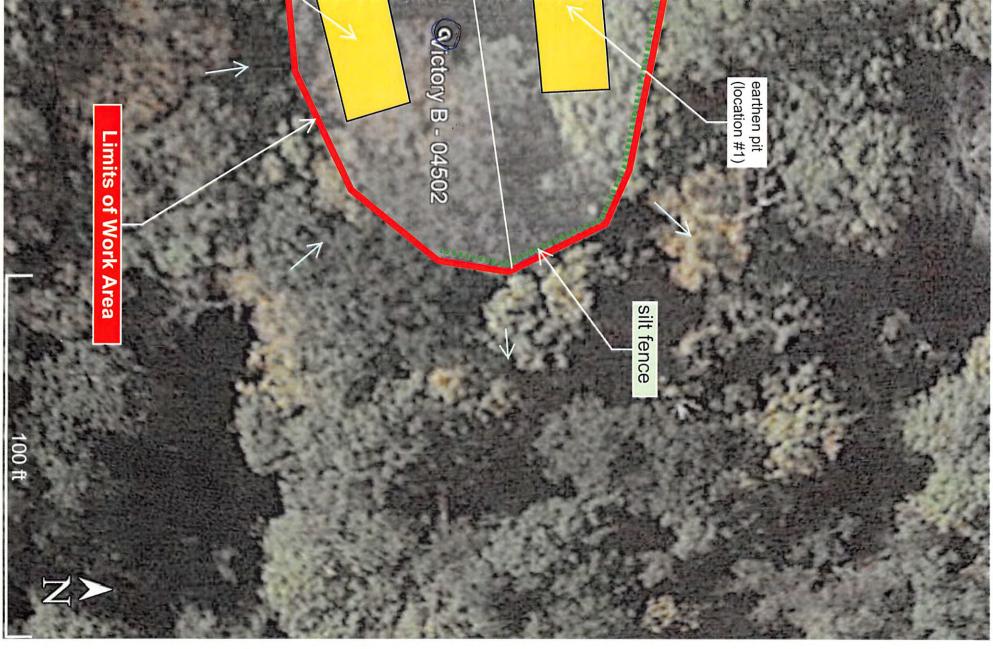
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Sincerely Lisa A. King, GIS Administrator

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

CC: William J. Toome





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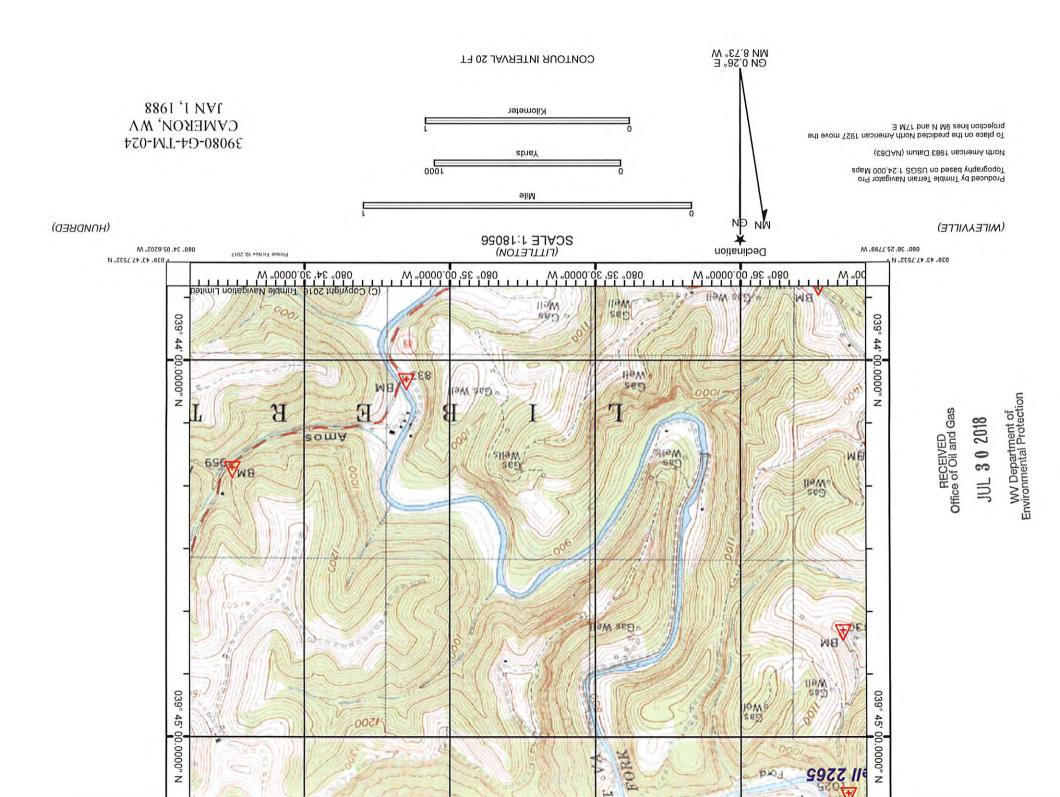


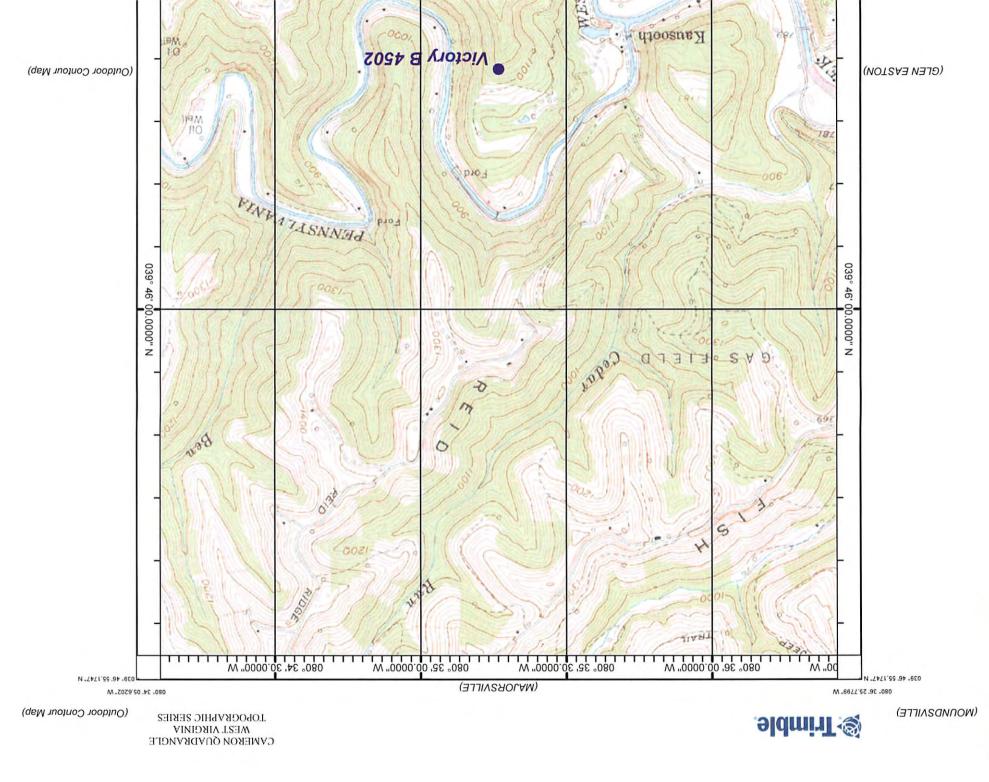


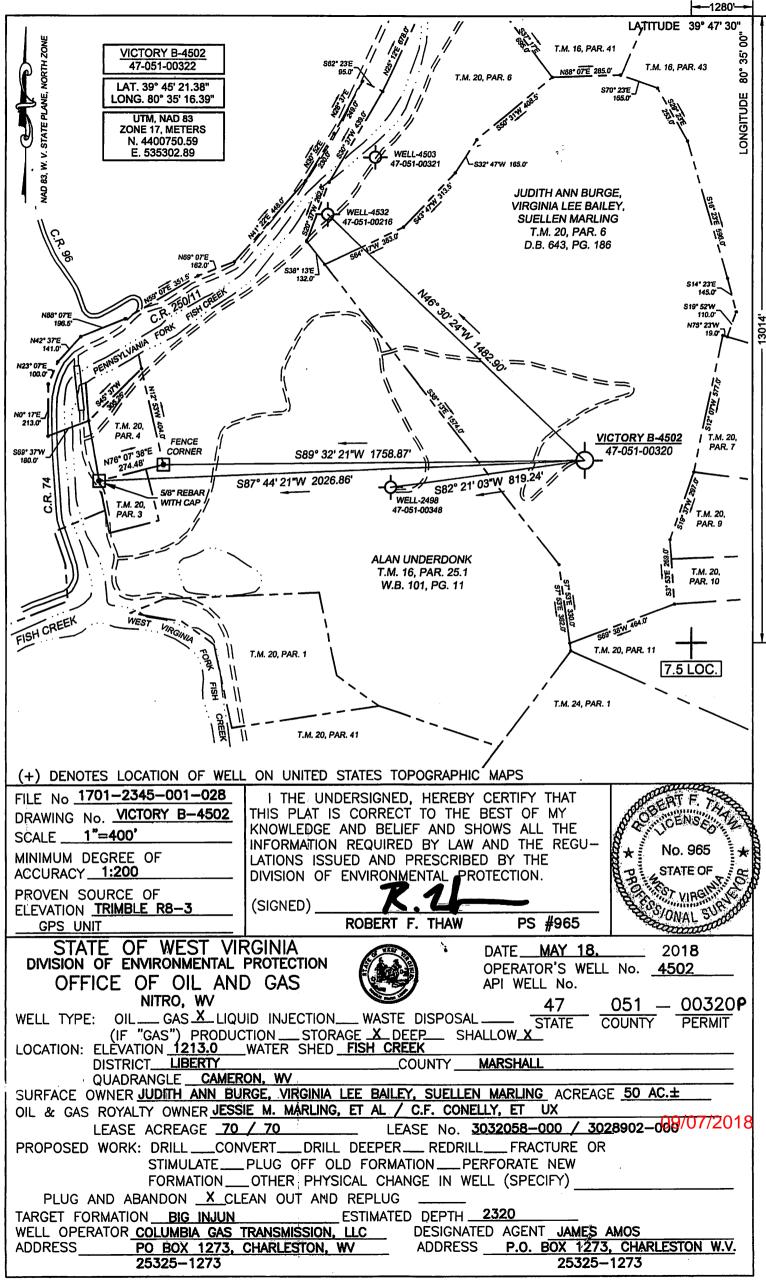
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P:\2018\1701-2345-001-028 COLUMBIA VICTORY B 4502\50-SUR\EY\DWG\VICTORY-B-4502-WELL PLAT.DWG