

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

Wednesday, April 20, 2022 WELL WORK PLUGGING PERMIT Vertical Plugging

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

Permit approval for 4437 Re: 47-051-00312-00-00

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.

Operator's Well Number: 4437

Farm Name: HARSH, NORA

U.S. WELL NUMBER: 47-051-00312-00-00

Vertical Plugging Date Issued: 4/20/2022

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.

WW-4B Rev. 2/01

1) Dat	e March	11		20 22	
2) Ope	rator	15			
Wel	1 No.	Majorsv	ille Shallow	1437	
3)API	Well	No.	47-051	- 00312-	00-00

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

4)		PERMIT TO PLUG AND ABANDON
	Well Type: Oil/ Gas X/ Li	
	(II "Gas, Production or	Underground storage X) Deep/ Shallow X
5)	Location: Elevation 1125.7	Watershed Wheeling Creek
	District Sand Hill	County Marshall Quadrangle Majorsville, WV
6)	Well Operator Columbia Gas Transmission,	LLC 7) Designated Agent Brad Nelson, Storage Engineer
01	Address 1700 MacCorkle Avenue S.E., P.O. Box	
	Charleston, WV 25325	Washington, PA 15301
8)	Oil and Gas Inspector to be notified Name Gayne J. Knitowski	9) Plugging Contractor Name Contractor Services, Inc. of West Virginia (ConServ)
	Address P.O. Box 108	Address 929 Charleston Road
	Gormania, WV 26720	Spencer, WV 25276
	Well job plan. Prior to P&A wellbore schematic	C
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JOB PLAN		Well Engineering	& Technology		PAGE 3	DATE JOB PREPARED:	1/6/2022
Objective: I	Plug and Abandon				T NOE 0	LAST PROFILE UPDATE:	11012022
TITLE:	Plug and Abandon				WORK TYPE:	Break-fix	
FIELD:	Majorsville Shallow	WELL:	4437				
STATE:	WV	SHL (Lat/Long):	39.954271	-80.533229	API:	47-051-00312-00-00	
DIST/TWP:	Sandhill	BHL (Lat/Long):	39.954271	-80.533229	CNTY:	Marshall	
			JC	DB PLAN			

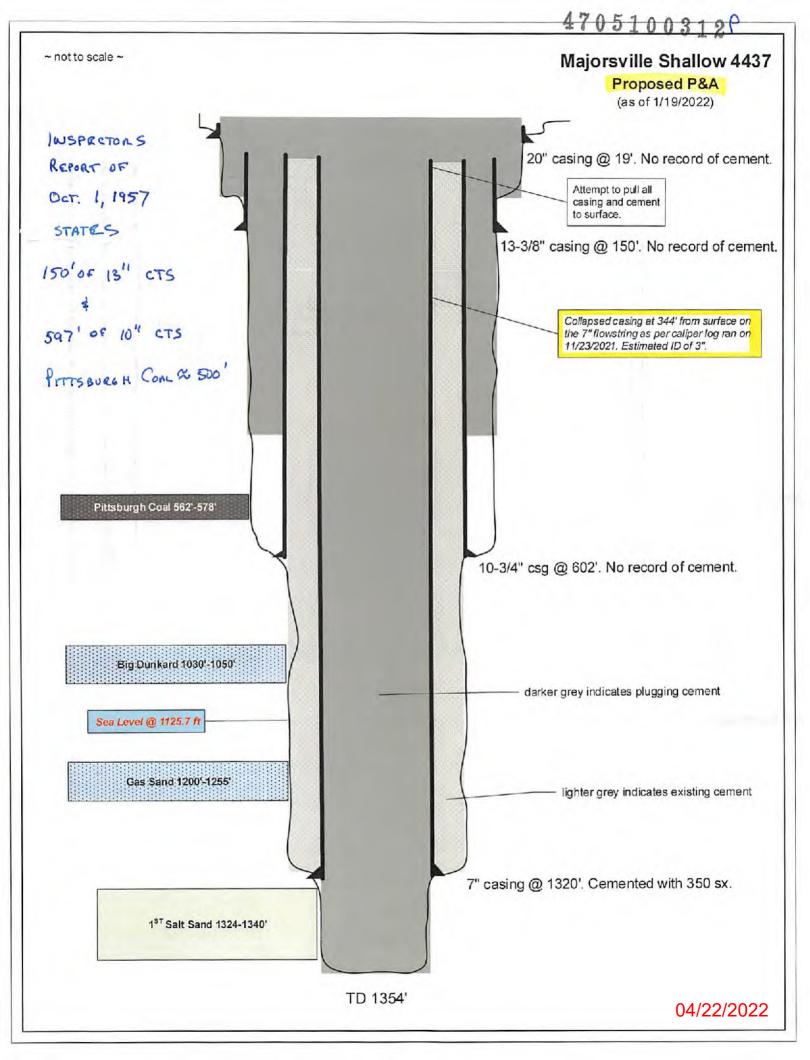
Note: A restriction estimated to be 3" in diameter was identified at ~344' from surface on 11/23/21 within the 7" flowstring.

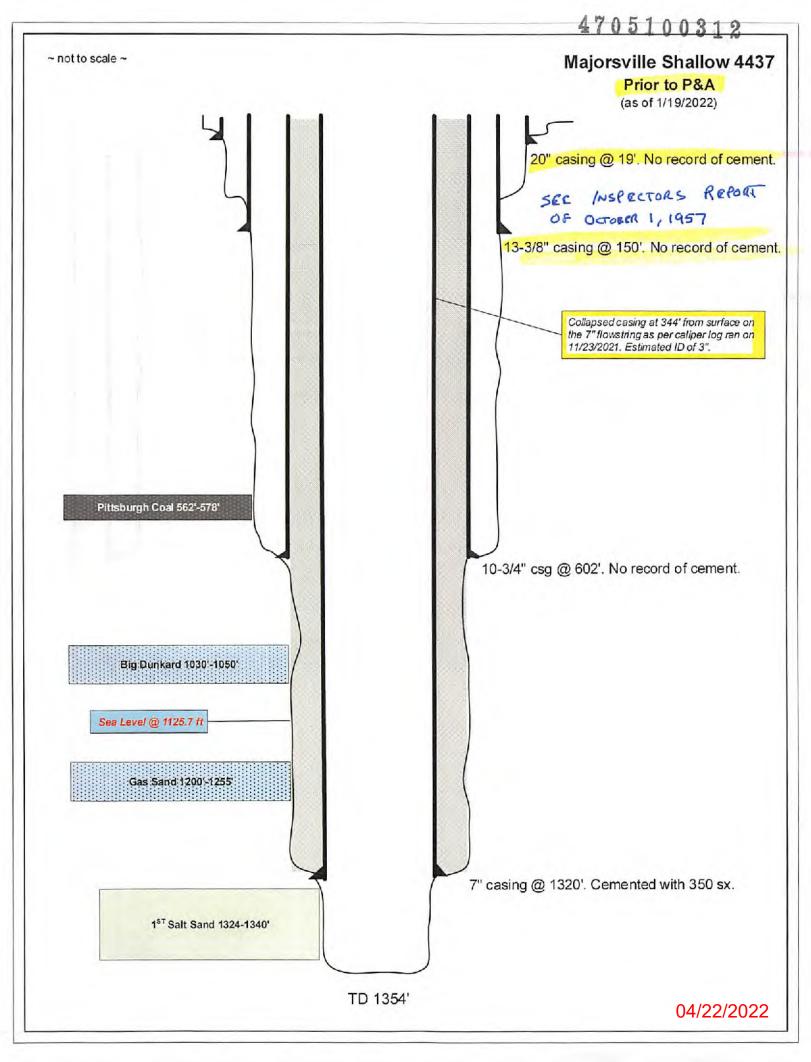
- Obtain NRP clearances, TOPs, pipeline crossing eval, etc.
- 2 Prepare access road and well site. Install ECD's per EM&CP.
- 3 Service all wellhead valves.
- 4 Document initial tubing / casing / annular pressures.
- 5 Top off the wellbore with kill weight fluid. If successful, remove restricted 4" valve and jump on a full bore 7" access valve,
- 6 Remove concrete pad and dress all casings for well control.
- 7 MIRU service rig.
- NU 7-1/16" 2000 # BOPs (double ram with blind & pipe + annular).
- 9 Pressure test low/high to 250/1600 psig using packer set <30 ft. Pressure test TIW/stabbing valves.</p>
- 10 MIRU Baker Atlas, Run CBL from TD to surface, Use 1-11/16" or 2-3/4" OD tools.
 - Note: Restricted ID of 3 inches at 344' from surface.
- 11 RDMO Baker Atlas.
- 12 TIH with work string and clean to TD at ~1354'.
- 13 Circulate two bottoms up to clean hole.
- 14 TOOH
- 15 TIH with work string and install balanced cement plug(s) from TD to 700'. WOC 10 hrs and tag.
- 16 ND BOPs.
- 17 NU drilling spool and 13" annular.
- 18 Free-pt and cut/pull all 7", 10-3/4", and 13-3/8" csg that is free.
- 19 TIH with work string and spot balanced cement plug(s) from top of last plug to surface.
- 20 RDMO service rig.
- 21 Top off all annuli with cement.
- 22 Install 7" csg monument 30" above GL, tack weld cap, and affix API number.
- 23 Reclaim road and location.

Type text here

Gayne	Digitally signed by Gayne Knitowski
Knitowski	Date: 2022.03.09 07:12:03

PREPARED BY:	Brad Nelson	REVIEWED BY:	APPROVED:	
PREP DATE:	1/6/2022			





STATE OF WEST VIRGINIA

2: DEPARTMENT: OF MINES

INSPECTOR'S PLUGGING REPORT INSPECTOR'S WELL REPORT

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STATE OF WEST VIRGINIA

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STATE OF WEST VIRGINIA

2.DEPARTMENT OF MINES

OIL AND GAS PIVISION

INSPECTOR PLUGGING REPORT

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Land Agent 04/22/2022

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FOR WELL	COMPANY The M.L.& H.	300 ACRES ON FARM OF	Marshall co. W.Va.	LOCATED BY. 8-19 19 57 A.C. Streator	OPEN FLOW 2 208 848	4705	100312P	i
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47051003120

1) Date:

3/1/2022

2) Operator's Well Number

Majorsville Shallow 4437

3) API Well No.: 47 -

051

- 003120000

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

Address	10000 history		4.7.7	10000011		
riumess	46226 National Road		Address	46226 National Road		
	St. Clairsville, OH 4395	/	_	St. Clairsville, DH 439		
(b) Name	Murray Energy c/o Land	Department		wner(s) with Decla		15 to 2
Address	46226 National Road		Name	American Consolidate		oes, inc.
	St. Clairsville, OH 4395	0	Address	46226 National Road		
/ > > *				St. Clairsville, OH 439	950	
(c) Name			Name			
Address			Address	-		
6) Inspector	Gayne J. Knitowski		(c) Coal Le	ssee with Declarat	tion	
Address	P.O. Box 108		Name	N/A		
	Gormania, WV 26720		Address			
Telephone	304-546-8171		-			
well its	and the plugging wo	rk order; and		sets out the parties in	nvolved in the v	work and describes the
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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 depprivacyoffice@wv.gov.

Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25325



March 8, 2022

American Consolidated Natural Resources, Inc. Murray Energy Corporation c/o Land Department Consolidation Coal Company 46226 National Road St. Clairsville, OH 43950

Columbia Gas Transmission (TC Energy), an underground natural gas storage operator, is planning to permanently plug and abandon a storage well (Majorsville Shallow 4437, API # 47-051-00312-00-00) on property owned by you in Marshall County, WV. Records indicate that American Consolidated Natural Resources, Inc., (Murray Energy, Consolidation Coal Company) 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,

Brad Nelson

Storage Engineer

TC Energy (Columbia Gas Transmission, LLC)

brad nelson@tcenergy.com

Sul me

off: 724-223-2753 cell: 724-250-0610



Certified Mail service provides the following benefits:

- · A receipt (this portion of the Certified Mail label).
- A unique identifier for your mailpiece.
- Electronic verification of delivery or attempted delivery.
- A record of delivery (including the recipient's signature) that is retained by the Postal Service" for a specified period.

Important Reminders:

- = You may purchase Certified Mail service with First-Class Mail®, First-Class Package Service®, or Priority Mail* service.
- Certified Mail service is not available for International mail.
- Insurance coverage is not available for purchase with Certified Mail service. However, the purchase of Certified Mall service does not change the insurance coverage automatically included with certain Priority Mail items.
- For an additional fee, and with a proper endorsement on the mailpiece, you may request the following services:
- Return receipt service, which provides a record of delivery (including the recipient's signature). You can request a hardcopy return receipt or an electronic version. For a hardcopy return receipt, complete PS Form 3811, Domestic Return Receipt: attach PS Form 3811 to your malipiece; IMPORTANT: Save this receipt for your records.

- for an electronic return receipt, see a retail associate for assistance. To receive a duplicate return receipt for no additional fee, present this USPS®-postmarked Certified Mail receipt to the retail associate.
- Restricted delivery service, which provides delivery to the addressee specified by name, or to the addressee's authorized agent.
- Adult signature service, which requires the signee to be at least 21 years of age (not available at retail).
- Adult signature restricted delivery service, which requires the signee to be at least 21 years of age and provides delivery to the addressee specified by name, or to the addressee's authorized agent (not available at retail).
- To ensure that your Certified Mail receipt is accepted as legal proof of mailing, it should bear a USPS postmark. If you would like a postmark on this Certified Mail receipt, please present your Certified Mail Item at a Post Office of for postmarking. If you don't need a postmark on this Certified Mail receipt, detach the barcoded portion of this label, affix it to the mallpiece, apply appropriate postage, and deposit the mailpiece.

PS Form 3800, April 2015 (Reverse) PSN 7530-02-000-9047





WW-9 (5/16)

API Number 4	7 <u>-</u> <u>051</u>	_00312-00-00
Operator's Well	No	

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) Wheeling Creek	Quadrangle Majorsviile, WV
Do you anticipate using more than 5,000 bbls of water to compl	
Will a pit be used? Yes No No	
If so, please describe anticipated pit waste: Fresh wa	ter, 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	e a completed form WW-9-GPP)
Underground Injection (UIC Permit	Number 34-119-28776, 34-167-23862
Reuse (at API NumberOff Site Disposal (Supply form WW	(Office discount)
Other (Explain Appalachian Water Se	ervices, 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 horizont:	al)? Air freshwater oil based etc. N/A
- ,	
Additives to be used in drilling medium?	· · · · · · · · · · · · · · · · · · ·
Drill cuttings disposal method? Leave in pit, landfill, removed	
-If left in pit and plan to solidify what medium will be	
	door (conont, min, sandust)
	as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West Virgorovisions of the permit are enforceable by law. Violations of a or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based on a	
Company Official Signature Beal Hele	Commonwealth of Pennsylvania - Notary Seal Elaine Rybski, Notary Public
Company Official (Typed Name) Brad Nelson	Allegheny County My commission expires May 11, 2022
Company Official Title Storage Engineer	Commission number 1332803 Member, Pennsylvania Association of Notarles
Subscribed and sworn before me this day of	March , 2022
- Elaine	Mysski Notary Public
My commission expires 5/11/2022	Commonwealth of Pennsylvania
	County of All 29 04/22/2022

				-
	 -		0.5	-
_		Acres Disturbed <1.0		
Lime 2		Tons/acre or to correct to	р _{рн} 7	
Fertilizer type	10-10-10			
Fertilizer amou	_{int} 600		lbs/acre	
Mulch 2		T	ons/acre	
			Seed Mixtures	
	Tempora	ary	Permanent	
Seed Type		lbs/acre	Seed Type lbs/acr	
Annual Rye		40	Orchard Grass and/or Tall Fescu	e 29
			Birdsfoot trefoil (empire)	9
			Annual Rye	12
Attach: Maps(s) of road, location	on, pit and j	proposed area for land ap Il be land applied, provic	oplication (unless engineered plans including this info has the water volume, include dimensions (L, W, D) of the property of	ve been
Attach: Maps(s) of road, location	on, pit and n the pit wil es, of the la	proposed area for land ap Il be land applied, provid nd application area.	oplication (unless engineered plans including this info ha	ve been
Attach: Maps(s) of road, location provided). If water from (L, W), and area in acro Photocopied section of	on, pit and n the pit wil es, of the la	proposed area for land ap Il be land applied, provid nd application area.	oplication (unless engineered plans including this info ha	ve been
Attach: Maps(s) of road, location provided). If water from (L, W), and area in acro Photocopied section of Plan Approved by:	on, pit and pit the pit will es, of the land involved 7.	proposed area for land and library lib	oplication (unless engineered plans including this info ha	ve been
Attach: Maps(s) of road, location provided). If water from (L, W), and area in acre Photocopied section of Plan Approved by: Comments:	on, pit and non the pit wiles, of the land involved 7. Gayne Knitowski	proposed area for land and library lib	oplication (unless engineered plans including this info ha	ve been
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	Page	- 7	of	2
API Number 47	- 051		00312	-00-00
Operator's Well	No.			

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

Operator Name: Columbia Gas Transmission, LLC Vatershed (HUC 10): Wheeling Creek	Quad: Majorsville, WV
	Quad. majoretmo, tri
'arm Name:	
 List the procedures used for the treatment and discharge groundwater. 	e of fluids. Include a list of all operations that could contaminate the
No fertilizer will be stored on site. Small quantities of fusecondary containment.	uel, oil, and lubricants will be stored on site, but located within
Accidental release from well fluids and spills from cons groundwater.	struction equipment are the only sources of contaminate to
All accumulated fluids to be hauled off site to UIC disp	osal facility.
2. Describe procedures and equipment used to protect grou	ndwater quality from the list of potential contaminant sources above
All construction equipment will be inspected	daily for leaks. Spill kits will be on site.
List the closest water body, distance to closest water discharge area.	body, and distance from closest Well Head Protection Area to the
The closest water body is Wheeling Creek, a	
The closest water body is Wheeling Creek, a The nearest Wellhead Protection area is 3.3	mi. to the NW - (PWSID WV3302617 ISKCON -
The closest water body is Wheeling Creek, a The nearest Wellhead Protection area is 3.3 NEW VRINDABAN).	approximately 0.22 miles to the E. mi. to the NW - (PWSID WV3302617 ISKCON -
The closest water body is Wheeling Creek, a The nearest Wellhead Protection area is 3.3 NEW VRINDABAN). 4. Summarize all activities at your facility that are already	approximately 0.22 miles to the E. mi. to the NW - (PWSID WV3302617 ISKCON -

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

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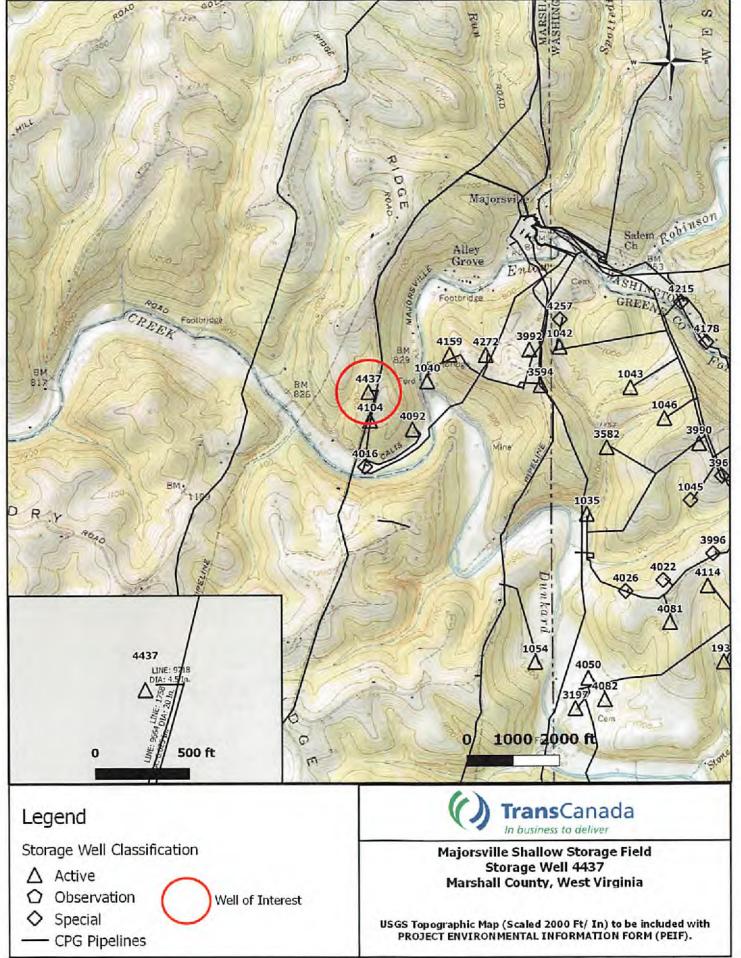
API Number 47 - 051 - 00312-00-00

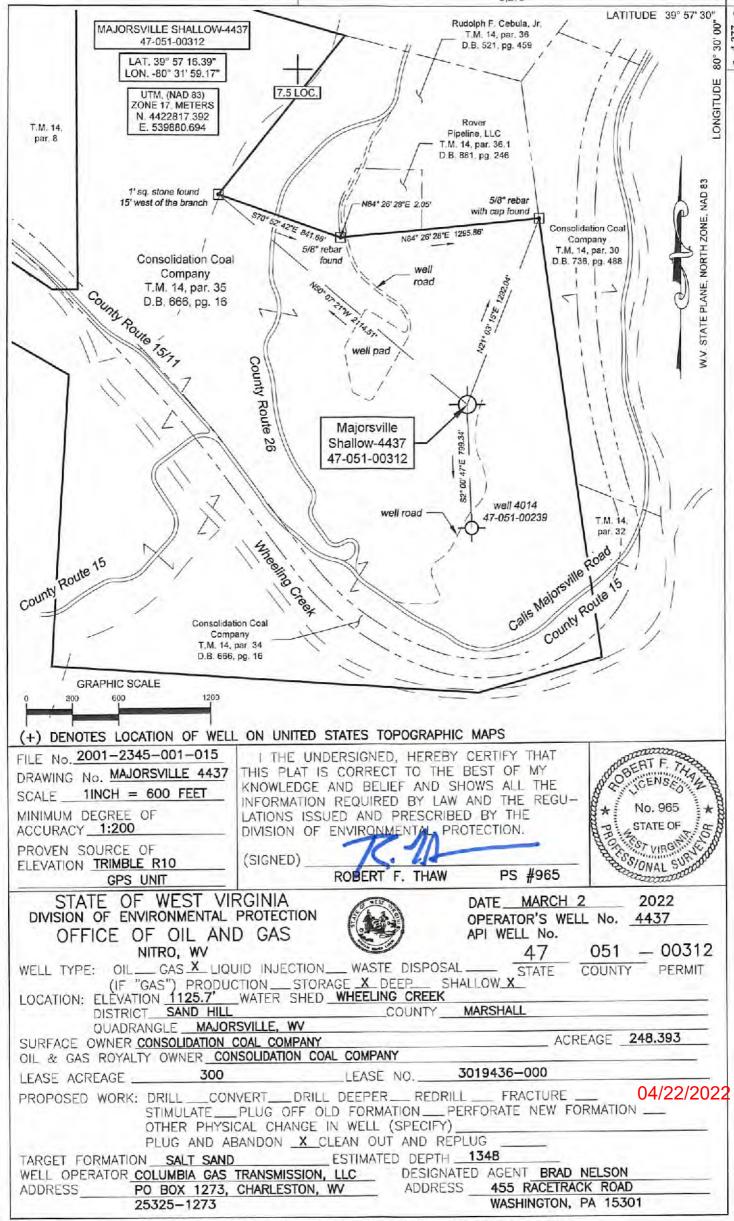
Operator's Well No.

N/A	
Provide a statement that no wa	aste material will be used for deicing or fill material on the property.
No waste material will be	e used for deicing or fill material on the property.
	otection instruction and training to be provided to the employees. Job procedures shall revent groundwater contamination.
Ouring routine tailgate m	eetings groundwater protection will be a topic of discussion.
Provide provisions and freque	ency for inspections of all GPP elements and equipment.
No fertilizer will be stored	d on site. Small quantities of fuel, oil, and lubrications will be stored or
No fertilizer will be stored	
No fertilizer will be stored site, but located within se	d on site. Small quantities of fuel, oil, and lubrications will be stored or
No fertilizer will be stored site, but located within se	d on site. Small quantities of fuel, oil, and lubrications will be stored or econdary containment. Construction equipment will be inspected daily









Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25325



March 15, 2022

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:

Majorsville Shallow 4437 (API 051-00312)

Please return permit to:

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

If you have questions, feel free to call.

Regards,

Brad Nelson

Storage Engineer

TC Energy (Columbia Gas Transmission, LLC)

brad_nelson@tcenergy.com

But Nek

off: 724-223-2753 cell: 724-250-0610

Office of OF and Gas

MAR 16 LULL

WV Department of Environmental Profession



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical & Re-work Vertical Well Work Permit API: 47-051-00312 & 00458)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Apr 20, 2022 at 2:52 PM

To: Brad Nelson <Brad_Nelson@tcenergy.com>, Strader C Gower <strader.c.gower@wv.gov>, "Gayne J. Knitowski" <gayne.j.knitowski@wv.gov>, Eric Buzzard <ebuzzard@marshallcountywv.org>

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-051-00312 - MAJORSVILLE SHALLOW 4437 - PLUGGING PERMIT

47-051-00458 - VICTORY B 4712 - RE-WORK VERTICAL PERMIT

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

4 attachments

