



---

west virginia department of environmental protection

---

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, May 6, 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 7368  
47-077-00004-00-00

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.

A blue ink signature of James A. Martin.

James A. Martin  
Chief

Operator's Well Number: 7368  
Farm Name: SISLER, J. F. & H.  
U.S. WELL NUMBER: 47-077-00004-00-00  
Vertical Plugging  
Date Issued: 5/6/2021

Promoting a healthy environment.

05/07/2021

I

4707700004P

## 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.

05/07/2021

1) Date 12/24, 2020  
2) Operator's  
Well No. Terra Alta 7368  
3) API Well No. 47-077 - 0004

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

5) Location: Elevation 2038 feet Watershed Saltlick Creek  
District Portland County Preston Quadrangle Terra Alta

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

8) Oil and Gas Inspector to be notified Name Gayne Knitowski  
Address PO Box 108  
Gorman, WV 26720  
9) Plugging Contractor Name Contractor Services Inc.  
Address 929 Charleston Road  
Spencer, WV 25276

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

Refer to enclosed:

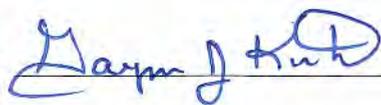
- 1) Well job plan.
- 2) Prior to P&A wellbore schematic.
- 3) Proposed P&A wellbore schematic.

RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

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

Work order approved by inspector  Date 1/21/21

Objective: Plug and Abandon LAST PROFILE UPDATE:

TITLE: Plug and Abandon WORK TYPE: WR

FIELD: Terra Alta WELL: 7368

STATE: WV SHL (Lat/Long) API:

DIST: BHL (Lat/Long) CNTY:

EXISTING TUBULAR CONFIGURATION	OD (inches)	WEIGHT (PPF)	GRADE	THREAD	DEPTH (ft)		FORMATION:
					TOP	BOTTOM	
Conductor							Oriskany See below.
Surface							
Intermediate1							
Intermediate2							
Production							
Tubing							ELEVATIONS TMG: KB-RF: GL:
Perforations							
Perforations							
Perforations							
Wellhead							WELLBORE SCHEMATIC
D.H. EQUIPMENT							
PACKER INFO:			TYPE		DEPTH (ft)		4707700004P
Upper							
Lower							
NIPPLE PROFILE INFO:							
Upper							
Lower							
SSSV INFO:							
CEMENT INFO							TOC (ft)
MISC INFORMATION							
<b>REFER TO WELL SUMMARY REPORT and WELLBORE DIAGRAM</b>							
PROPOSED YEAR: 2020		ERCB PERMIT REQD: YES ___ NO <u>X</u>		(Internal) PDS Required: YES ___ NO ___			
PREPARED BY: Jim Amos		DT. APPLIED: ISSUED:		APPROVED: <input checked="" type="checkbox"/> Recoverable Signature 			
PREP DATE: 12/21/2020		REVIEWED BY:		James Amos Principal Engineer Signed by: 83aa62d7-b693-404d-8328-f042f2e33502			

RECEIVED  
Office of Oil and Gas  
FEB - 2 2021  
WV Department of  
Environmental Protection



<b>WELL JOB PLAN</b>		<b>Well Engineering &amp; Technology</b>		PAGE 3	DATE JOB PREPARED: 12/21/2020
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE: Plug and Abandon		WELL: 7368		WORK TYPE: WR	
FIELD: Terra Alta	STAT: WV			API: 0	
TWP: 0	SHL (Lat/Long): 0 0			CNTY: 0	
BHL (Lat/Long): 0 0			PROCEDURE		

**\*\*Note: All cement used will be Class A, slurry weight 15.6ppg, slurry yield 1.18 cuft/sk. All spacers will be 6% Bentonite gel\*\***

- 1 Obtain State plugging permit, FERC authorization, EM&CP, pipeline crossing evaluation, call before you dig, etc. Prepare site specific SPCC.
- 2 Notify landowner.
- 3 Obtain General Work Permit and Wellsite Review & Turnover Form from Operations.
- 4 Notify environmental inspector prior to beginning work.
- 5 Notify State O&G inspector prior to beginning work.
- 6 Disconnect well line.
- 7 Install ECD's per EM&CP.
- 8 Prepare access road and well site.
- 9 Dig down and verify that old/lower casing head is connected to 8-5/8" casing - if not consult with WET engineer for next steps to take.
- 10 Document and report to WET engineer the casing and annular pressures.
- 11 Blow down all annuli and replace fittings as necessary. Leave annuli open to atmosphere for monitoring.
- 12 Load/top 4x7 and 7x8 annuli with kill fluid. Load all remaining annuli with FW. Document volumes.
- 13 Kill well with viscosified fluid. Spearhead 20 bbls LCM pill ahead.
- 14 Obtain CBL from casing shoe to surface - keep hole full. Provide digital copy to WET engineer and consult to confirm next steps.

4707700004

**Note: The following procedure assumes that there is an interval of good sealing cement between 3600 - 5600 ft. If not then procedure will need revised. Confirm procedure with WET engineer before proceeding.**

- 15 Dig around base of wellhead to uncover casing tops and remove cement if present.
- 16 MIRU service rig.
- 17 NU 7-1/16" Cameron 5K BOPE (blind/shear + pipe + annular) on top of master valve. Need kill and choke outlets below blind/shear.
- 18 Function and pressure test BOPE to low (250 psig) and high (3000 psig).
- 19 TIH w/ 2-3/8" drill pipe workstring with 3-3/4" bit and clean to original TD of 5910'.
- 20 Round trip to lay down bit.
- 21 Install balanced cement plug from TD to 4000'.
- 22 POOH to above cement, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC.
- 23 WOC minimum 8 hours. RIH and tag cement. If cement top is deeper than 4450' then spot a second balanced cmt plug.
- 24 Install 4-1/2" CIDBP no deeper than 4500' (depth of DV tool @ 4560').
- 25 Top off 4-1/2" with kill fluid and perform 500 psig pressure test to verify integrity of BP.
- 26 RIH with work string and install balanced cement plug from retainer to 3300'.
- 27 POOH to above cement, reverse circulate to clean tubulars, pull 10 joints, close pipe rams, and WOC.
- 28 WOC minimum 4 hours. RIH and tag cement. If cement top is deeper than 3500' then spot a second balanced cmt plug.
- 29 TOOH.

If cement top behind 4-1/2" casing is below 1000' and CBL indicates good sealing cement between 3650 - 4500' proceed to Step 40. If cement top is above 1000' or no sealing cement between 3650 - 4500' then jump to Step 60.

- 40 ND BOPE.
- 41 Weld pulling nipple on 4-1/2" csg and pull seals/slips.
- 42 Weld pulling nipple on 7" csg and dress 8-5/8" csg to accommodate BOPE.
- 43 NU 11" 3/5K spool (with kill/choke outlets) and 11" annular BOP.
- 44 Function and pressure test BOPE to low (250 psig) and high (500 psig).
- 45 Top off all annuli again.
- 46 Plumb 8x10 annuli to flowback tank.
- 47 Wireline freepoint 4-1/2" csg. If not free below 1000' then consult with WET engineer on next steps. If free below 1000' then cut/pull all 4-1/2" csg that is free.
- 48 If 4-1/2" csg cut/pulled, wireline freepoint 7" csg. If not free below 1000' then consult with WET engineer on next steps. If free below 1000' then cut/pull all 7" csg that is free.
- 49 RIH with work string and install balanced cement plug from top of last cement plug to 800'.
- 50 POOH to above cement, reverse circulate to clean tubulars, pull 5 joints, close annular, and WOC.

RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

PREPARED BY: Jim Amos	REVIEWED BY:	APPROVED:  11/21/21
PREP DATE: 12/21/2020		

05/07/2021

<b>WELL JOB PLAN</b>		<b>Well Engineering &amp; Technology</b>		PAGE 4	DATE JOB PREPARED: 12/21/2020
Objective: Plug and Abandon				LAST PROFILE UPDATE:	
TITLE:	Plug and Abandon			WORK TYPE: WR	
FIELD:	Terra Alta	WELL:	7368		
STAT:	WV	SHL (Lat/Long):	0 0	API:	0
TWP:	0	BHL (Lat/Long):	0 0	CNTY:	0

PROCEDURE CONTINUED

4707700004

- 51 WOC minimum 6 hours. RIH and tag cement. If cement top is less than 100' above top of 7" csg stub then spot a second balanced cmt plug.
- 52 ND BOPE.
- 53 Attempt to pull all 8-5/8" csg. If can't pull all then wireline freepoint and cut/pull all that is free.
- 54 Attempt to pull all 10-3/4" csg. If can't pull all then wireline freepoint and cut/pull all that is free.
- 55 TIH with work string and install balanced cement plugs to surface.
- 56 RDMO service rig.
- 57 Erect monument per state regulations. Reclaim location and lease road.
- 58 P&A complete.

If cement top behind 4-1/2" casing is above 1000' or no sealing cement between 3650 - 4500' proceed to Step 60.

- 60 Perforate thru both the 4-1/2" and 7" csqs above last cement plug and attempt to circulate to surface or establish injection.  
\* Consult with WET engineer on results
- 61A If circulation to surface established, consult with WET engineer for procedure:  
Circulate kill weight fluid until good kill density fluid is returned.  
RIH with sliding-sleeve style cement retainer on work string  
Set retainer above perfs  
Establish circulation  
Squeeze cement behind 7" casing with pre-determined cement volume that occupies no more annular volume than that required to place top of cement at 900'.  
Disengage from retainer, reverse circulate to clean tubulars, and TOH.  
WOC 24 hours.  
Obtain CBL
- 61B If no circulation to surface, but injection established, consult with WET engineer for procedure:  
RIH with sliding-sleeve style cement retainer on work string  
Set retainer above perfs  
Establish injection  
Disengage from retainer and spot cement at bottom of work string  
Squeeze cement behind 7" casing with pre-determined cement volume that occupies no more than annular volume that required to place top of cement at 900'.  
Disengage from retainer, reverse circulate to clean tubulars, and TOH.  
WOC 24 hours.  
Obtain CBL
- 61C If circulation/injection not established; Perforate at 3000-02'. Repeat process above.
- 62 Repeat process above as needed, perforating at following intervals:  
3000 - 02'  
2500 - 02'  
2000 - 02'  
1500 - 02'

\* Note that during steps above cement plugs must be installed across all perf zones, casing shoes, and O/G/W zones.  
If needed install cement plugs across all perf intervals and spot cement plug to 900'.

- 63 ND BOPE and remaining wellhead components.
- 64 Weld pulling nipple on 4-1/2" csg and pull seals/slips.
- 65 Weld pulling nipple on 7", 8-5/8", and 10-3/4" casings.
- 66 Attempt to pull all 8-5/8" and 10-3/4" casings. Report results to WET engineer.  
*Depending on results of previous step, procedure will be to perf/squeeze in attempt to place cement across FW zones or cut/pull as much casing as possible and cement.*
- 67 Complete plugging operations.
- 68 RDMO service rig.
- 69 Erect monument per state regulations. Reclaim location and lease road.
- 70 P&A complete.

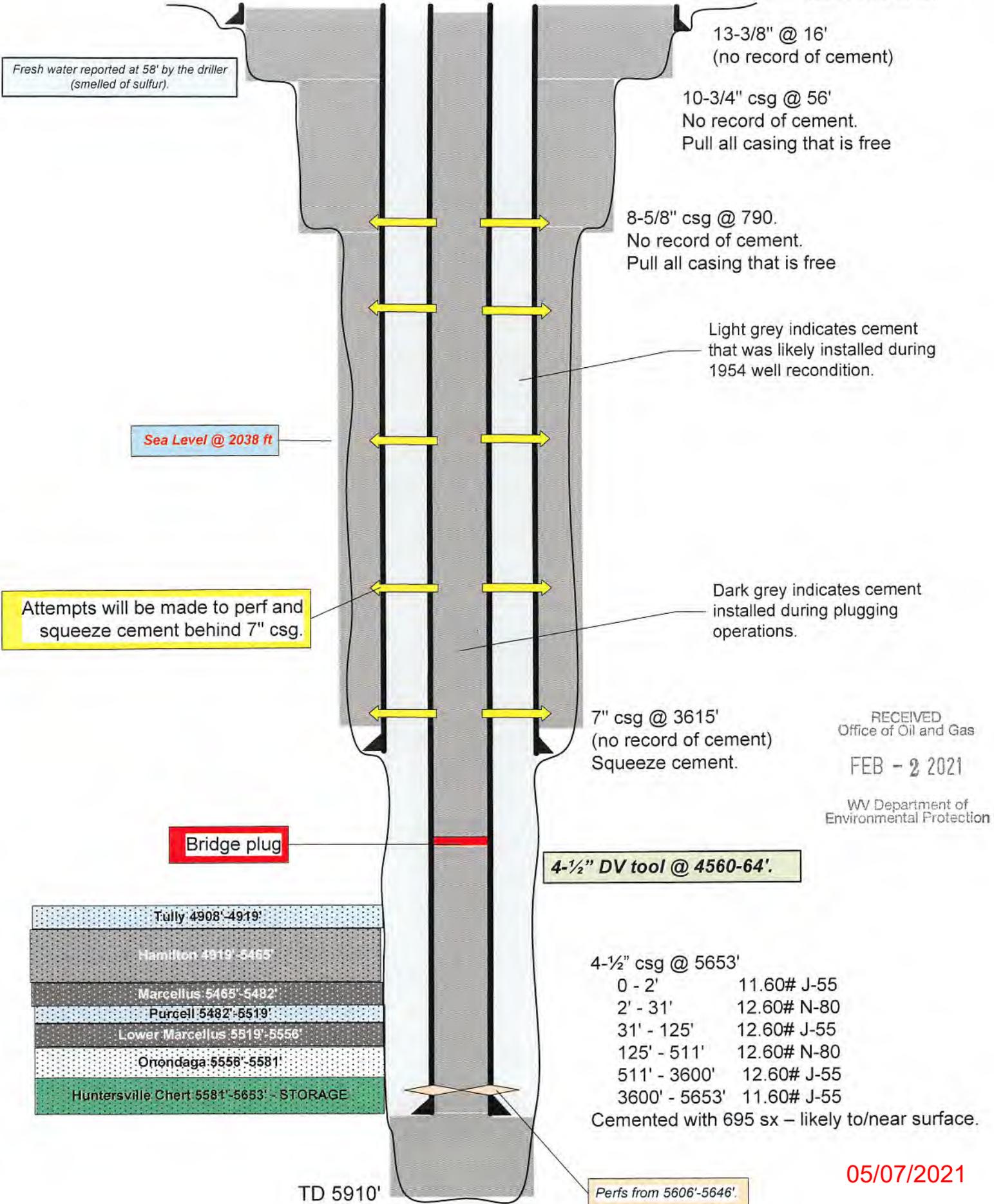
RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

PREPARED BY:	Jim Amos	REVIEWED BY:	APPROVED:
PREP DATE:	12/21/2020		<i>[Signature]</i> 1/21/21

05/07/2021



Fresh water reported at 58' by the driller (smelled of sulfur).

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

10-3/4" csg @ 56' No record of cement. Pull all casing that is free

8-5/8" csg @ 790. No record of cement. Pull all casing that is free

Light grey indicates cement that was likely installed during 1954 well recondition.

Sea Level @ 2038 ft

Attempts will be made to perf and squeeze cement behind 7" csg.

Dark grey indicates cement installed during plugging operations.

7" csg @ 3615' (no record of cement) Squeeze cement.

RECEIVED Office of Oil and Gas

FEB - 2 2021

WV Department of Environmental Protection

Bridge plug

4-1/2" DV tool @ 4560-64'.

Tully 4908'-4919'
Hamilton 4919'-5465'
Marcellus 5465'-5482'
Purcell 5482'-5519'
Lower Marcellus 5519'-5556'
Onondaga 5556'-5581'
Huntersville Chert 5581'-5653' - STORAGE

4-1/2" csg @ 5653'

0 - 2'	11.60# J-55
2' - 31'	12.60# N-80
31' - 125'	12.60# J-55
125' - 511'	12.60# N-80
511' - 3600'	12.60# J-55
3600' - 5653'	11.60# J-55

Cemented with 695 sx – likely to/near surface.

TD 5910'

Perfs from 5606'-5646'.

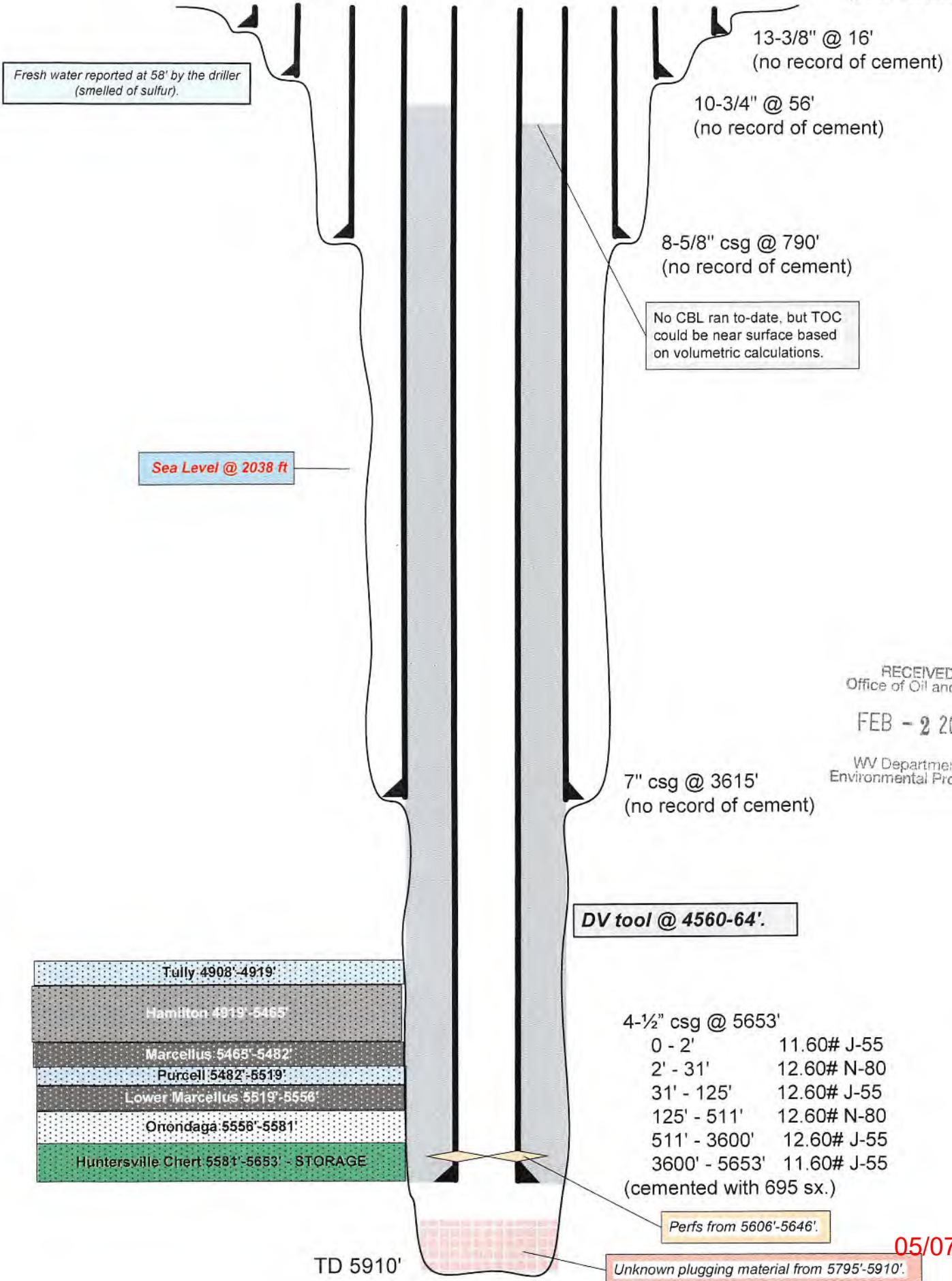
05/07/2021

~ not to scale ~

4707700004P

Terra Alta 7368

Prior to P&A  
(as of 10/30/2020)



Fresh water reported at 58' by the driller (smelled of sulfur).

Sea Level @ 2038 ft

No CBL ran to-date, but TOC could be near surface based on volumetric calculations.

RECEIVED  
Office of Oil and Gas  
FEB - 2 2021  
WV Department of  
Environmental Protection

DV tool @ 4560-64'

Tully 4908'-4919'
Hamilton 4919'-5465'
Marcellus 5465'-5482'
Purcell 5482'-5519'
Lower Marcellus 5519'-5556'
Onondaga 5556'-5581'
Huntersville Chert 5581'-5653' - STORAGE

4-1/2" csg @ 5653'	
0 - 2'	11.60# J-55
2' - 31'	12.60# N-80
31' - 125'	12.60# J-55
125' - 511'	12.60# N-80
511' - 3600'	12.60# J-55
3600' - 5653'	11.60# J-55
(cemented with 695 sx.)	

Perfs from 5606'-5646'

Unknown plugging material from 5795'-5910'

TD 5910'

05/07/2021

7360

C+U 467

4707700004P

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
WELL RECORD

Permit No. Pres-4 (Kingwood Quad)

Company	William E. Snee	Gas Well	
Address	P.O. Box 513, 4th and Grant, N. Elizabeth, Pa.	CASING & TUBING	
Farm	James F. & Harrison Sisler A 118.25	1 1/2	15" Same
Location	Salt Lick	10	88 "
Well No.	3 Elev. 2036.6	8 1/2	790 "
District	Portland Preston County	7 OD	3615 "
Surface	Harrison Sisler, Terra Alta, W.Va.		
Mineral	James F. & Harrison Sisler Terra Alta, W.Va.		
Commenced	April 1, 1946		
Completed	Sept. 1, 1946		
Open Flow	11/10ths W in 24 hrs. 7" O.D. casing		
Volume	4,335,000 C.F. per day		
Rock Pressure	2160 lbs. 24 hrs.		
	2315 lbs. 33 days		
	2350 lbs.		
Fresh Water	58' H.F. smelled of sulphur		

F 23607

Gravel	Gr	S	0	75	While well was shut down from
Slate & Shells	Gr	S	15	58	8-27-46 to 10-1-46 gas increased
Lime	Bk	H	58	78	from 405,000 C.F. per day to 696,000 C.F. per day.
Slate & Shells	Gr	M	78	775	
Lime	Bk	H	775	784	
Slate & Shells	Gr	M	784	1225	10-1-46 Gas 5622 to 8622; drilled 6"
Broken Sand	Gr	M	1225	1265	and gas increased from 696,000 C.F. per day to 4335,000 C.F. per day
Slate & Shells	Gr	M	1265	1656	
Shale	Br	S	1656	1680	
Shale	Bl	M	1680	1700	Well was shut in immediately.
Shale	Br	M	1700	2500	
Shale	Gr	M	2500	2510	24 hr. Rock Pressure 2160
Shale & Shells	Gr	M	2510	2995	
Shale	Br	S	2995	3043	Final Rock Pressure 2330
Shell	Gr	H	3043	3053	
Shale & Shells	Gr	M	3053	3653	NOTE: Well not yet finally completed
Shale &	Br	S			
Shells	Gr	to M	3632	4585	
Limey Shale	Bk	S	4585	4920	
Tully Lime	Gr	H	4920	4935	
Shale	Dr. Gr	S	4935	5306	
Shale & Lime					
Shells	Lt. Dr. Gr.	S	5306	5473	variable
Limey Shale	Bk	M	5473	5513	
Shale	Bk	S	5513	5560	
Onondaga Lime	Gr	H	5560	5575	
Chert	Gr	H	5575	5622 1/2	Gas 5608 1,680 C.F. per day Gas 5613-17 370,000 C.F. " Gas 5617-22 406,000 C.F. "

RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

Drilled Super to 5710'      P.S. Commenced  
 Plug at back to 5795'      3-4-49 after running 5602' of 6 1/2"  
 T.D. at 5710' on 4-5-49

Drisking to 5792'      Run at 5792-95      1,902,307 c.f.

4707700004P

WW-4A  
Revised 6-07

1) Date: 12/24/2020  
2) Operator's Well Number  
Terra Alta 7368

3) API Well No.: 47 - 077 - 00004

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name: Eva K. Sisler Heirs, et al	Name: Not operated.
Address: 431 Oak Grove Circle	Address:
Terra Alta, WV 26764	
(b) Name:	(b) Coal Owner(s) with Declaration
Address:	Name:
	Address:
(c) Name:	Name:
Address:	Address:
<b>6) Inspector</b> Gayne Knitowski	(c) Coal Lessee with Declaration
Address: PO Box 108	Name:
Gorman, WV 26720	Address:
Telephone: 304.546.8171	

**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.

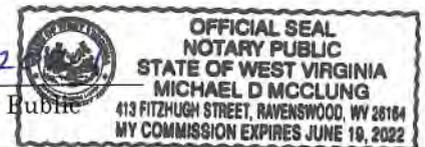
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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.

RECEIVED  
Office of Oil and Gas

Well Operator: Columbia Gas Transmission  
 By: James Amos *[Signature]*  
 Its: Team Leader - Well Engineering and Technology  
 Address: 48 Columbia Gas Road  
 Sandyville, WV 25275  
 Telephone: 304.373.2412

FEB - 2 2021  
WV Department of Environmental Protection

Subscribed and sworn before me this 1st day of February 2022  
*[Signature]* Notary Public  
 My Commission Expires 6/19/22



**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).

05/07/2021

4707700004 P

Columbia Gas Transmission, LLC

1700 MacCorkle Ave., SE, Charleston, WV, USA 25314



December 24, 2020

Eva K. Sisler Heirs  
431 Oak Grove Circle  
Terra Alta, WV 26764

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 Terra Alta 7368 (API 47-077-00004).

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.

Regards,

Jim Amos  
Team Leader  
Well Engineering & Technology  
Columbia Gas Transmission, LLC

RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		<p>A. Signature <i>Jim Amos</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
1. Article Addressed to:		B. Received by (Printed Name)	C. Date of Delivery
EVA K. SISLER HEIRS 431 OAK GROVE CIRCLE TERRA ALTA, WV 26764			9 Jan 21
 9590 9402 3688 7335 3537 41		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p> <p>4707700004</p>	
<p>Article Number (Facing)</p> <p>7017 0660 0001 0359 5699</p>		<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	

S Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

05/07/2021

**SURFACE OWNER WAIVER**

Operator's Well  
Number

Terra Alta 7368

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.  
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

**If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.**

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

Date  
05/07/2021

WW-4B

4707700004P

API No. 47-077-00004

Farm Name \_\_\_\_\_

Well No. Terra Alta 7368

COAL NOT OPERATED

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

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

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

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

**WAIVER**

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

Date: \_\_\_\_\_

By: \_\_\_\_\_ RECEIVED  
Office of Oil and Gas

Its \_\_\_\_\_ FEB - 2 2021

WV Department of  
Environmental Protection

05/07/2021

WW-9  
(5/16)

API Number 47 - 077 00004  
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 OP Code 307032

Watershed (HUC 10) Saltlick Creek Quadrangle Terra Alta

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, brine, cement returns, bentonite gel

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? \_\_\_\_\_

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.

RECEIVED  
Office of Oil and Gas

Company Official Signature [Signature]

FEB - 2 2021

Company Official (Typed Name) James E. Amos

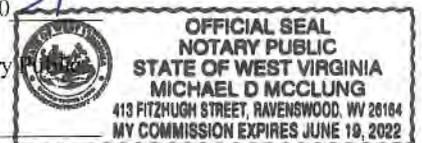
Company Official Title Team Leader, Well Engineering & Technology

WV Department of Environmental Protection

Subscribed and sworn before me this 1st day of February, 2021

[Signature]

Notary



My commission expires 6/19/22

05/07/2021

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
Annual Rye	40	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:

*Gayle J. Kuth*

Comments:

*Reclaim site ASAP*

RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

Title: Inspection

Date: 1/21/21

Field Reviewed? (  ) Yes

(  ) No

470770004P

### WV DEP Reclamation Plan - Site Detail Terra Alta well 7368 (API 077-00004)

- 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

**Limit of Proposed Disturbance  
on existing well site**

PIT A  
50' x 10' x 4' deep

1.1 acres

**Terra Alta - 07368**

PIT B  
50' x 10' x 4' deep

Google Earth

© 2020 Google

100 ft



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

Operator Name: Columbia Gas Transmission LLCWatershed (HUC 10): Saltlick CreekQuad: Terra Alta

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 lubrications 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.

Saltlick Creek - 0.16 miles. Terra Alta Water Works (WV3303917) - 1.46 miles.

RECEIVED  
Office of Oil and Gas

FEB - 2 2021

WV Department of  
Environmental Protection

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

N/A

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

05/07/2021

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.

RECEIVED  
Office of Oil and Gas  
FEB - 2 2021

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

WV Department of  
Environmental Protection

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

Signature: Jan E. Cox

Date: 1/29/21

# WV DEP Reclamation Plan - Overview

Terra Alta well 7368 (API 077-00004)

- 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

RECEIVED  
Office of Oil and Gas  
WV Department of  
Environmental Protection  
FEB - 2 2021



Google Earth

© 2020 Google

3000 ft

4707700004P  
(VALLEY POINT)



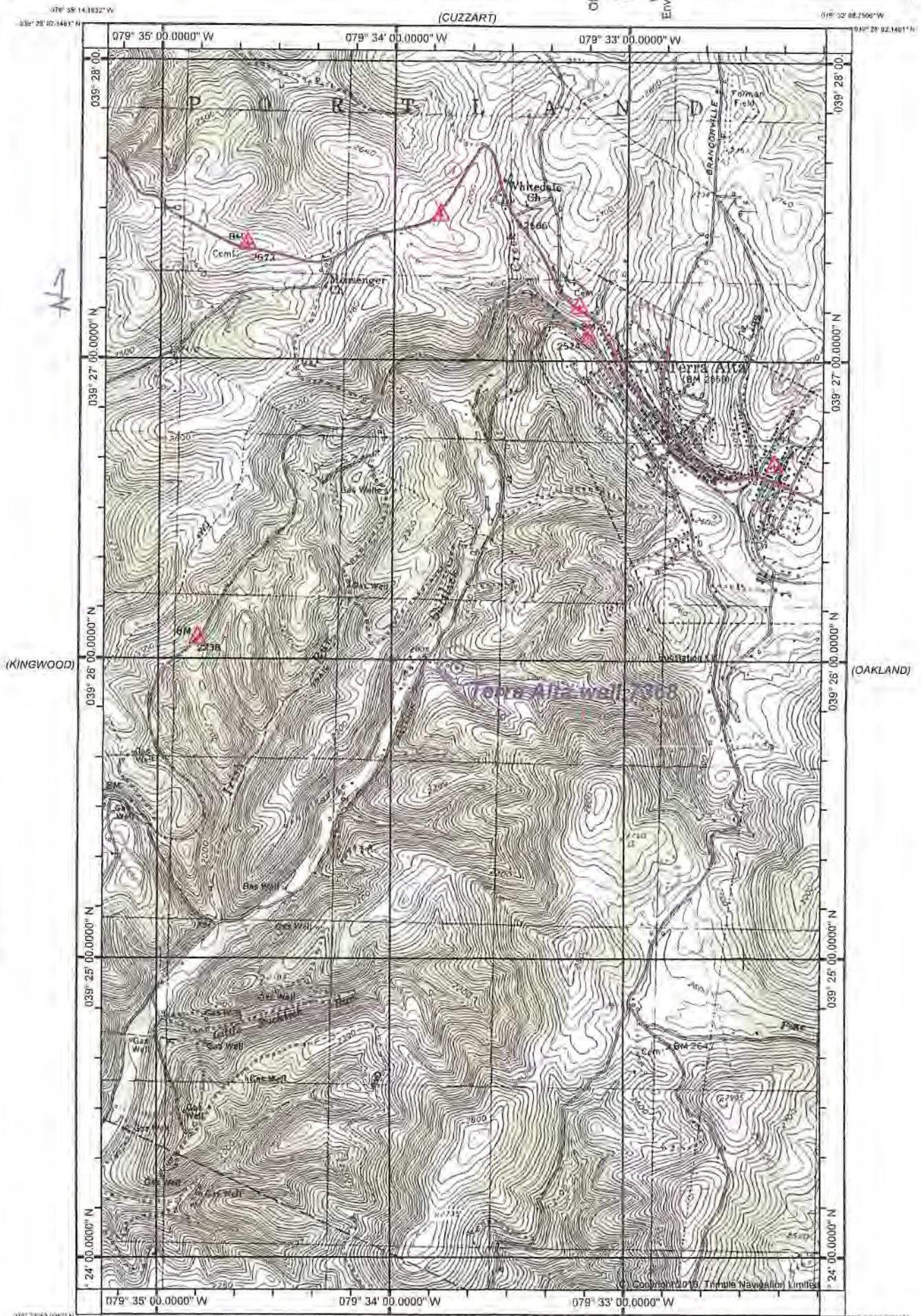
RECEIVED  
Office of Oil and Gas  
FEB - 2 2021

WV Department of  
Environmental Protec

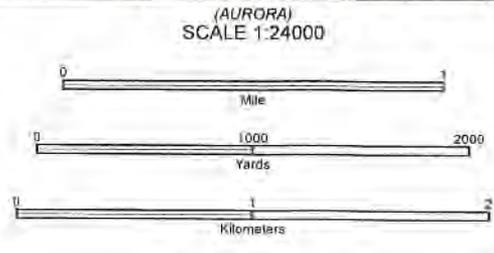
TERRA ALTA QUADRANGLE  
WEST VIRGINIA  
TOPOGRAPHIC SERIES

(SANG RUN)

4707700004

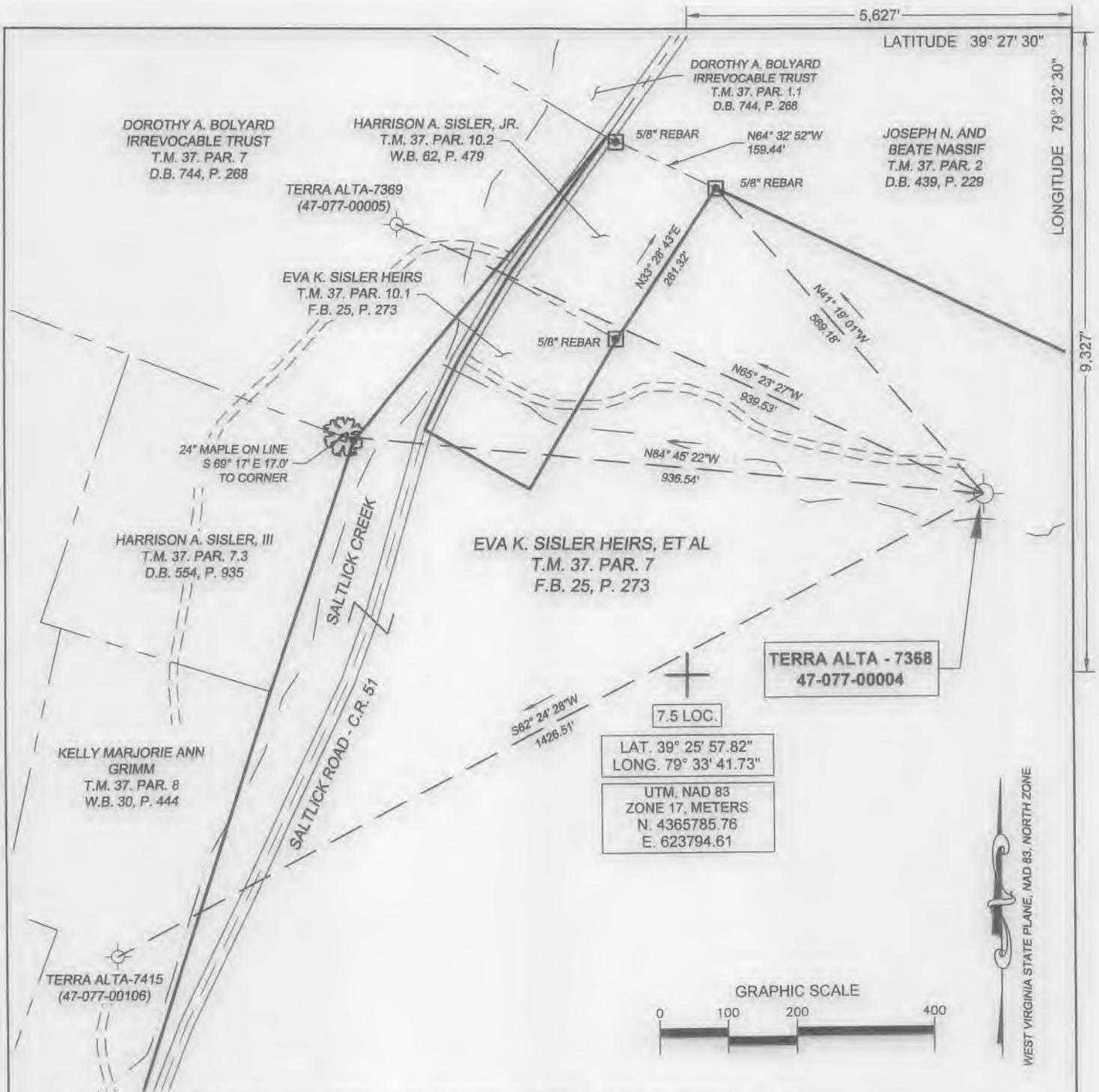


Produced by Trimble Terrain Navigator Pro  
 Topography based on USGS 1:24,000 Maps  
 North American 1983 Datum (NAD83)  
 To place on the predicted North American 1927 move the  
 projection lines (GM N and 19M E



CONTOUR INTERVAL 20 FT

39079-D4-TM-024  
 TERRA ALTA 05/07/2021  
 JAN 1, 2000

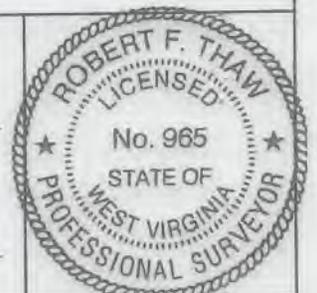


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 2001-3079-001-016  
 DWG No. TERRA ALTA-7368  
 SCALE 1"=200'  
 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) *Robert F. Thaw*  
 ROBERT F. THAW PS #965



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 NITRO, WV



DATE NOVEMBER 24 2020  
 OPERATOR'S WELL No. 7368  
 API WELL No. 47 077 - 00004

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE COUNTY PERMIT

(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 2038.0' WATER SHED SALTlick CREEK  
 DISTRICT PORTLAND COUNTY PRESTON

QUADRANGLE TERRA ALTA, WV  
 SURFACE OWNER EVA K. SISLER HEIRS, ET AL ACREAGE 126  
 OIL & GAS ROYALTY OWNER HARRISON A. SISLER, ET UX  
 LEASE No. 1090396-000 LEASE ACREAGE 128

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 CHERT/ORISKANY ESTIMATED DEPTH 5910  
 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

05/07/2021

FORM IV-6 (8-78)