

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

Monday, June 14, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

EASTERN GAS TRANSMISSION AND STORAGE, INC 925 WHITE OAKS BOULEVARD BRIDGEPORT, WV 26330

Re: Permit approval for 6603 47-041-02296-00-00

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. N Chief

Operator's Well Number: 6603 Farm Name: HOWELL, F. U.S. WELL NUMBER: 47-041-02296-00-00 Vertical Plugging Date Issued: 6/14/2021

Promoting a healthy environment.

WW-4B	
Rev. 2/01	

-4B		1)Dat	<sub>e</sub> 8-20	20 20
v. 2/01			rator's	
			l No. 6603 Well No. 47-041	- 02296
		9/11L1		
		WEST VIRGINIA		
		IRONMENTAL PROTECTIO	N	
	OFFICE OF	FOIL AND GAS		
	APPLICATION FOR A PE	RMIT TO PLUG AND ABA	NDON	
) Well Type:	0i1/ Gas X/ Liqu	id injection/	Waste disposal	/
	"Gas, Production X or U			
) Location: H	Elevation 1,063'	Watershed Jesse Ru	n	
I	District Hackers Creek	County Lewis	Quadrangle Berlin	7.5'
	EASTRAW GAS TRANSMISSION & STU	luc	John M. Love	
	925 White Oaks Blvd.		925 White Oaks E	Rive
Addres		Addres		
	Bridgeport, WV 26330	-	Bridgeport, WV 26	330
) Oil and Gas	Inspector to be notified	9)Plugging Contra	ctor	
Name Barry		Name Stalnak		
	8 Conifer Dr.	Address 220		
	ridgeport, WV 26330		ville, WV 26351	
		-		

10) Work Order: The work order for the manner of plugging this well is as follows: Please see attached sheet for plugging procedure.

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

Work order approved by inspector

Bang Stilligs Date 12-16-20

06/18/2021

#### 2020 Work Plan 6603 Lost Creek Production – Straddle Lease (Outside Storage) 47-041-02296 Scope of Work: Plug to Abandon

#### Emergency Contacts

<u>Operations (Supervisor)</u> Keith Swisher (M): 304.918.8370 (O): 304.269.6946 Environmental (ECC Supervisor) Traci Ricottilli (M): 304.703.9027 (O): 304.269.6948 <u>Operations (Manager)</u> Dave Gum (M): 304.669.5760 (O): 304.269.6935

#### Well Data

<u>Well Configuration</u> (Based on historic records) (Assume MD = TVD & all measurements from GL, unless otherwise noted)

- 10-3/4" casing seat @ 271' (pulled c. 1925)
- 8-5/8" casing @ 725' (set on shoe c. 1925)
- 7" casing @ 1302' (set on shoe c. 1925)
- 5-1/2" casing seat @ 2337' (pulled c. 1925)
- 3-1/2" tubing @ 2200' (c. 1934)
  - o Packer @ 1985'

#### Zones of Interest

- Native coal: 178' 180'
- Water
  - o Brine 725', 900'
- Gas shows
  - o Injun 1285', 1309', 1360'
  - o Gantz 1603'
  - o 5<sup>th</sup> Sand 2113'
  - o Benson 4077'
    - Shot 4074' 4084'
- Original TD @ 4302' (c. 1925)

#### Potential Well Conditions

- Current shut in well surface pressure 52 psi (24 hour)
- Potential fluids: Brine

#### Site Specific Conditions

Multiple strings of casing exist within the well, but no cement information is present. The potential exists for circulation or flow to be present at surface, from any of the casing annuli. Measures should be taken at surface to encapsulate or intercept any flow from these annuli. This may include, but is not limited to, the installation of wellhead equipment/plating, sealed cellar around well, and appropriate tanks & pumps to handle any encountered fluids.

JASON BACH 0 681-843-3329 c 304-669-4850

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#### Well Work

- File for and receive all necessary regulatory agency authorizations (§22-6-23; §35-4-13(1)(a)).
- Upgrade well site. Install well cellar and site containment in manner which protects the environment and any identified site-specific areas of concern.
- Move in service rig and ancillary equipment.
- Well conditions present may include salt / brine, paraffin / oil, and solids, and natural gas.
- Appropriate well control/diversion equipment needs utilized to divert flow and returns from well. Well control equipment should have a pressure rating higher than any pressure anticipated to be encountered during workover and plugging operations, be of dimensional proportions to allow passage of all anticipated tools and casing strings, and be able to isolate the wellbore at any time, as necessary. Well control equipment should be hydro pressure tested to a pressure in excess of the maximum pressure anticipated to be encountered during well work operations. Pressure tests should be recorded. All equipment should be assessed for soundness and all personnel required to operate well control equipment should demonstrate competency. Depending on the phase of operations, well control equipment may need to be changed or replaced. If so, the new equipment must meet all the aforementioned performance and testing requirements. Prior to manipulating the 3-1/2" production casing, blowout prevention and pressure control equipment must be attached to the 7" casing. This will serve as the control devices and strings to be employed during storage horizon well work activities. This equipment must be tested to a pressure which exceeds the storage reservoir pressure. The recommended minimum size and pressure rating of a BOP attached to the 7" casing is 7-1/16", 3M. A full opening safety valve should be on the rig floor, in the open position with wrench present, with subs to adapt to all work string sections.
- Based on maximum anticipated pressures and formation properties, build workover fluid system.
  - To enhance compatibility with plugging operations, the workover fluid may be freshwater based 6% bentonite gel. If bentonite gel cannot be used as the workover fluid, 6% bentonite gel spacers may be required during plugging, to separate cement plugs.
- Depending on well flow and pressures, well may: 1) require to be killed or, 2) may be blown down and loaded with fluid. If well must be killed from surface, kill will be done before further downhole work proceeds. If well can be blown down, further work may proceed before loading the well is necessary.
- Locate the packer with wireline tools and perforate the 3-1/2" tubing immediately above the packer. Circulate fluid through the perforations until the tubing annulus is dead and clean. Unseat the packer and pull the tubing string (maximum pull weight required, based on anticipated length of free tubulars = 37,000#) (§35-4-13.6).
- A caliper log is recommended to verify wellbore capacities and the depth of the 7" casing seat.

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- TIH w/ plugging string to as near current TD as possible (±2205').
- Circulate well (at least 1 surface to surface volume). Shut down and confirm well is static. If so, proceed with plugging. If not, perform corrective actions necessary to achieve static conditions, prior to proceeding with plugging activities.
- Spot balanced Class A cement plug f/ as near TD as possible (±2205') t/ ±50' below the 7" casing seat (this covers the Gantz and lower Injun intervals) (§22-6-24 (a) (1)); 35-4-13.5 & 14.1).
- TOH.
- TIH w/ plugging string and tag top of last cement plug set, to verify depth. The top of this bottom
  plug will serve as the platform for further plugging work. The bottom plug must be allowed to set
  and gain compressive strength, then be tagged to verify top of plug. If the plug is not found to be
  installed as designed, further cementing and verification activities may be required prior to
  proceeding.
- Pull free point on 7" casing and determine length of free tubulars (maximum pull required, based on total recorded length of tubulars = 39,000#) (§35-4-13.6).
- Sever 7" casing at free point (mechanical or wireline cut).
- Pull free 7" casing. (Multiple pulls and/or pull attempts may be necessary) (§35-4-13.6).
- If 7" casing cannot be pulled below 1285', zones of concern which may require perforation are: 7" casing separation @ depth'; Injun @ 1285'; brine @ 900'; brine @ 725' 8-5/8" casing seat @ 725'.7"
  - The Injun interval is of concern, due to being a recorded gas show.
  - If casing has been removed, a caliper log is recommended to confirm the volumes of cement required for proper isolation.
- TIH.
- With work string setting immediately above the top of the lowest cement plug, circulate well (at least 1 surface to surface volume). Shut down and confirm well is static. If so, proceed with plugging. If not, perform corrective actions necessary to achieve static conditions, prior to proceeding with plugging activities.
- Spot Class A cement plugs (100' minimum length/plug) across any perforated zones of concern, open hole zones of concern, and the 7" casing top (50' above and 50' below the casing top) (this may cover some or all of the aforementioned zones of concern). The final Class A cement plug top should be set ±50' below the 8-5/8" casing seat. (§22-6-24 (a) & (a) (1)); 35-4-13.5 & 14.1).
- TOH.
- Pull free point on 8-5/8" casing and determine length of free tubulars (maximum pull weight required, based on total recorded length of tubulars = 25,000 165.

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- Sever 8-5/8" casing at free point (mechanical or wireline cut).
- Pull free 8-5/8" casing (§35-4-13.6).
- If 8-5/8" casing cannot be pulled below 230', zones of concern which may require perforation are: 8-5/8" casing seat @ 725'; native coal@ 178' 180'.
- Prior to setting cement plugs, a caliper log may be run to verify wellbore capacities across open hole plug intervals.
- TIH w/ plugging string and tag top of last cement plug set, to verify depth.
- Circulate well (at least 1 surface to surface volume). Shut down and confirm well is static. If so, proceed with plugging. If not, perform corrective actions necessary to achieve static conditions, prior to proceeding with plugging activities.
- Spot Class A cement plugs (100' minimum length/plug) across any perforated zones of concern, open hole zones of concern, and the 8-5/8" casing top (50' above and 50' below the casing top) (this may cover some or all of the aforementioned zones of concern). The final Class A cement plug should be set to surface (§22-6-24 (a) & (a) (1)); 35-4-13.5 & 14.1).
- TOH.
- Rig down and move out service rig and equipment.
- Remove site containment and well cellar.
- Reclaim well site (§35-4-16).
- Top well off with cement, as necessary.
- Install well monument (§22-6-24(c)).
- File any necessary forms with regulatory agencies, including WV DEP forms WR-34 and WR-38 (§22-6-23).

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## 4704102296P

#### Mechanical Properties (@ 100% condition, per API Technical Report 5C3)

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\*\*\*\*Limited data is available for casing and tubing strings, outside of OD. The following are assumptions, based on lowest weights & grades.

- 8-5/8", 24#, J-55 (STC)
  - o ID = 8.097"
  - o Drift = 7.972"
  - Coupling OD = 9.625"
  - o Capacity = 0.0637 bbl/ft
  - o Burst = 2950 psi
  - o Collapse = 1370 psi
  - o Tensile Yield (Body) = 381,000#
  - Tensile Yield (Joint) = 244,000#
  - Torque = 2440 ft-lbs
  - О.
- 7", 20#, H-40 (STC)
  - o ID = 6.456"
  - o Drift = 6.331"
  - Coupling OD = 7.656"
  - Capacity = 0.0405 bbl/ft
  - o Burst = 2720 psi
  - Collapse = 1970 psi
  - Tensile Yield (Body) = 230,000#
  - Tensile Yield (Joint) = 176,000#
  - o Torque = 1760 ft-lbs
- 3-1/2", 9.2#, J-55 (NU)
  - o ID = 2.992"
  - o Drift = 2.867"
  - Coupling OD = 4.250"
  - Capacity = 0.0087 bbl/ft
  - o Burst = 7950 psi
  - Collapse = 8330 collapse
  - Tensile Yield (Body) = 127,300#
  - Tensile Yield (Joint) = 127,300#
  - Torque = 1480 ft-lbs

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WV Department of Environmental Protection Wellhead Program

- The use of braden style heads or API flanged wellhead equipment may be used
- Steel plate for covering external casing annuli should be 1/2" A-36 Grade plating
- Flex-o-lets should be Grade SA105

Well History Synopsis

1925: Well drilled. 10-3/4" casing pulled during drilling operations. Benson interval shot. Lower portion of well plugged, including the Benson interval. 5-1/2" casing pulled.

Plugging Data

Wood @ 2205' Rock @ 2210' – 2238' Cement (3 sx) @ 2318' Wood @ 2318' Clay @ 3400' – 3840' Lead @ 3840' – 3845' Wood @ 3845' Rock @ 3845' – 3900' Clay @ 3900' – 4117' Wood @ 4117' Bridging material @ 4121' – 4127' RECEIVED Office of Oil and Gas

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1934: 3-1/2" tubing and packer ran and set.

#### Administrative Disclaimers & Additional Criteria

- Additional supplements to this work plan may be developed and utilized, depending on actual or anticipated job specific requirements.
- Although detailed in a sequential manner, some portions of the work plan may be performed concurrently.
- During well work activities, unanticipated, non-emergency deviations from the work plan may be required. In the event of these deviations, the required actions will be reviewed by BHE Production representative and the Well Site Manager. The actions related to these deviations will be documented in the daily reports.
- The well will be secured at the completion of each day's activities. Well pressures and flow potentials will be verified, prior to recommencing daily well work activities.
- Multiple repetitions of the same activity, in excess of what is indicated in the work plan, may occur. Such actions include, but are not limited to, installation of a night cap assembly.
- All contractors performing work activities for DETI must have completed <u>DETI Contractor Safety</u> <u>and Environmental</u> training, prior to commencing work. This training should be completed prior to arriving at the well site, but may also be provided by a qualified trainer at the well site, as necessary.
- Prior to commencing daily well work activities, a site safety and environmental briefing must be held. Record of this meeting may be contained on a BHE Job Safety Brief. Copies of daily safety and environmental briefings are to be submitted to BHE Production Operations upon completion of well work activities.
- Permits are not required for any of the hot work functions (e.g. torch cutting and welding activities). However, the work area must be monitored for flammable gases/vapors using portable or fixed CGIs.
- Some work, such as welding, welding inspection, and pipe coating are tasks which BHE may require OQ individuals to perform. Prior to these work activities commencing, individuals performing this work will be verified to have active qualifications.
- Contractors shall be actively compliant with the requirements of a D&A monitoring program meeting BHE criterion.
- Mechanical parameters of tubulars, connections, and associated wellhead equipment should be obtained from industry technical manuals or from manufacturer/supplier data.



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-Authonized- by Signed By Tallay



WW-4A Revised 6-07	RECEIVED Office of Oil and Gas FEB 0 8 2021 WV Department of Environmental Protection	1) Date:       8/20/20         2) Operator's Well Number         6603         3) API Well No.: 47 -       041       -       02296
D	EPARTMENT OF ENVIR NOTICE OF APP	STATE OF WEST VIRGINIA RONMENTAL PROTECTION, OFFICE OF OIL AND GAS LICATION TO PLUG AND ABANDON A WELL
4) Surface Ov	vner(s) to be served:	5) (a) Coal Operator
(a) Name	Thomas & Esther Bond	Name N/A
Address	1779 Jesse Run Rd.	Address
	Jane Lew, WV 26378	
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name None with declaration
		Address
(c) Name		Name
Address		Address
) Inspector	Barry Stollings	(c) Coal Lessee with Declaration
Address	28 Conifer Dr.	Name N/A
	Bridgeport, WV 26330	Address
Telephone	304-552-4194	

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 for by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

STATE OF WEST VIRGINIA Melissa D. Mars 925 White Oaks Blvd. Bridgeport, WV 26330 My Commission Expires July 5, 2025 Subscribed and sworn before me this       Its:       Designated Agent         Subscribed and sworn before me this       3rd       day of       February       2021 Notary Public	OFFICIAL SEAL NOTARY PUBLIC	Well Operator By:	EASTERN GRS TRUNS MUSSING	P. A.	2
925 White Oaks Blvd.       Address       925 White Oaks Blvd.         Bridgeport, WV 26330       Bridgeport, WV 26330       Bridgeport, WV 26330         My Commission Expires July 5, 2025       Telephone       304-688-4673         Subscribed and sworn before me this       3rd       day of       February         Gay of       February       2021		(CO) (	Designated Agent	6//	
My Commission Expires July 5, 2025       Telephone         304-688-4673		Address	925 White Oaks Blvd.		
Subscribed and sworn before me this 3rd day of February , 2021			Bridgeport, WV 26330		
		Telephone	304-688-4673	V	
My Commission Expires Qualue 5, 2025					

#### **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 <u>depprivacyoffier@wv.gov</u>.





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1.1.10

SMITH LAND SURVEYING, INC. 12 Vanhorn Drive PO Box 150 Glenville, WV 26351

TO: THOMAS & ESTHER BOND 1779 JESSE RUN RD. JANE LEW, WV 26378









TO: THOMAS & ESTHER BOND 1779 JESSE RUN RD. JANE LEW, WV 26378

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#### SURFACE OWNER WAIVER

Operator's Well Number

6603

#### **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

<u>Time Limits and methods for filing comments.</u> 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.

<u>Comments must be in writing.</u> 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;

Date

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...".

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 FOR EXECUTION BY A CORPORATION,

ETC.

\_\_\_\_

Signature

Name By

Its

Date

Signature

06048/2021

My Commission Expires July 5, 2025

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### FEB 0 8 2021

WW-9 (5/16)

(5/16) WV Department of Environmental Protection	API Number 47 - 041 _ 02296 Operator's Well No. 6603
DEPARTMENT OF ENV OFFICE (	F WEST VIRGINIA /IRONMENTAL PROTECTION OF OIL AND GAS POSAL & RECLAMATION PLAN
Operator Name Dominion Energy Transmission Inc.	OP Code 307048
Watershed (HUC 10) Jesse Run	Quadrangle Berlin 7.5'
Will a pit be used? Yes No If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes Proposed Disposal Method For Treated Pit Wastes:	No If so, what ml.?
Land Application (if selected provid Underground Injection (UIC Permi Reuse (at API Number Off Site Disposal (Supply form WV Other (Explain AST will be put on site	W-9 for disposal location) MUST DISPOSE OFF-SITE,
Will closed loop systembe used? If so, describe: <u>N/A</u> Drilling medium anticipated for this well (vertical and horizon	tal)? Air, freshwater, oil based, etc. None

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

Additives to be used in drilling medium? No Drilling, P&A

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)\_

-Landfill or offsite name/permit number?

Permittee shall provide written notice to the Office of Oil and Cas 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 Cas 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 o btaining 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	Two
Company Official (Typed Name) John M, Love	
Company Official Title Designated Agent	
Subscribed and swom before me this 3rd day of February	, 20 21
My commission expires July 5, 2021	Notary OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Melissa D. Mars
<i>v v</i>	925 White Oaks Blyd Bridgeport W/26330 202

Operator's Well No.

Form WW-9

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Revegetation Treatmen	nt: Acres Disturbed	Preveg etation pH	6.8
Lime 3	_Tons/acre or to correct	to pH 6.5	
Fertilizer type 10-20-2	20 or equivalent		
Fertilizer amount1/3	3 Ton	lbs/acre	
Mulch Hay		Tons/acre	
	PAPT	Perman	ent
Tempo	n al y		
<b>Temp</b> o Seed Type	lbs/acre	Seed Type	lbs/acre
		Seed Type Orchard Grass	lbs/acre 15
Seed Type	lbs/acre		

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.

lan Approved by:	Dary J	Stiller		
Comments:				
		RECI Office of (	EIVED	
		FEB 0	8 2021	
		WV Dep Environmer	artment of tal Protection	
Title: Inspec	tor		Date:	12-16-20
Field Reviewed?	( 🗡 )Yes	(	) No	

06/18/2021





