



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

Tuesday, October 12, 2021
WELL WORK PERMIT
Vertical / Re-Work

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

Re: Permit approval for 7849
47-033-03185-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: 7849
Farm Name: McDONALD, WILLIAM M.
U.S. WELL NUMBER: 47-033-03185-00-00
Vertical Re-Work
Date Issued: 10/12/2021

Promoting a healthy environment.

10/15/2021

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

4703303185W
Call 330727
\$550.00

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Eastern Gas Transmission and Storage, Inc. 307048 Harrison Grant West Milford
Operator ID County District Quadrangle

2) Operator's Well Number: 7049 3) Elevation: 985

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4) Well Type: (a) Oil _____ or Gas _____
(b) If Gas: Production / Underground Storage _____
Deep _____ / Shallow _____

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5) Proposed Target Formation(s): Gantz Proposed Target Depth: 1550'

6) Proposed Total Depth: 4225 Feet Formation at Proposed Total Depth: Benson

7) Approximate fresh water strata depths: 28', 68', 580'

8) Approximate salt water depths: No Record

9) Approximate coal seam depths: No Record

SDW
8/25/2021

10) Approximate void depths,(coal, Karst, other): NA

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Plug back shallow production interval from 4125' to 1600'. Rework Gantz to convert well to storage observation only.
See attached well work plan

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE For Drilling	INTERVALS Left in Well	CEMENT Fill -up (Cu. Ft.)
	Size	Grade	Weight per ft			
Conductor						
Fresh Water	13-3/8"			284'	284'	Existing
Coal						
Intermediate	7"			1854'	1854'	Existing
Production	4-1/2"	J-55	10.5	4225'	4225'	Existing
Tubing	2-3/8"			4131'	4131'	Existing
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____

10/15/2021

7849 Work Plan

1. MIRU service rig and ancillary equipment.
2. Pull 2-3/8" tubing
3. MU companion flange and working valve to the 4.5 casing
4. MIRU wireline and run integrity logs on 4.5" casing
5. MU BOP to valve and spool to working valve assembly
6. TIH to TD with tricone bit and clean out wellbore.
7. TOH with bit, make up mule shoe and TIH to 4250.
8. RU Cementers and pump balanced plug from 4250 to 1600' in 500' increments
9. Wash off cement top at 1600' and TOH to 1000'
10. Wait on cement
11. TIH and tag cement top. If below 1600', pump balanced plug from cement top to 1660'
12. MIRU wireline, run cbl of 4.5" casing
13. perforate 4.5" casing above top of cement
14. set retainer and Cement 4.5" casing to surface
15. Drillout cement retainer and cleanout well to 1600'
16. MIRU top joint crew
17. Replace top joints of casing and put new wellhead on well

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8/25/2021

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IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date October 25, 1985
Operator's Well No. 7849
Farm Joseph Cheuvront
API No. 47 - 033 - 3185-RED

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow)

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LOCATION: Elevation: 985.57' Watershed West Fork River

District: Grant County Harrison Quadrangle West Milford WV Department of Environmental Protection

COMPANY Consolidated Gas Transmission Corp.
ADDRESS 445 W. Main St., Clarksburg, WV 26301
DESIGNATED AGENT W. A. Fox
ADDRESS 445 W. Main St., Clarksburg, WV 26301
SURFACE OWNER William McDonald, Jr.
ADDRESS Rt. 2, Jane Lew, WV 26378
MINERAL RIGHTS OWNER Beatrice C. Lowell
ADDRESS Box 253, Lost Creek, WV 26385
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Rt. 2, Box 232-D Casey ADDRESS Jane Lew, WV 26378
PERMIT ISSUED April 3, 1985
DRILLING COMMENCED July 8, 1985
DRILLING COMPLETED July 14, 1985
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13 3/8 - 10"	284	284	To surface
9 5/8			
8 5/8			
7	1854	1854	To surface
5 1/2			
4 1/2	4225	4225	275 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4063-4080 feet
Depth of completed well 4225 feet Rotary X / Cable Tools
Water strata depth: Fresh 28,68,580feet; Salt feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson, Riley & Balltown Pay zone depth See perf. feet
Gas: Initial open flow n/a Mcf/d Oil: Initial open flow Bbl/d
Final open flow 1,247 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 740 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

10/15/2021

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated Benson at 4074 - 4079 with 10 holes.
Fractured with 600 bbls. of water, 60,000# sand & 500 gal. 15% HCL.

Perforated Riley at 3782 - 3788 with 8 holes.
Fractured with 600 bbls. of water, 60,000# sand & 750 gal. 15% HCL.

Perforated Balltown at 2976 - 3000 with 8 holes.
Fractured with 600 bbls. of water, 60,000# sand & 750 gal. 15% HCL.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Old hole					
Little Dunkard			395	440	
Big Dunkard			485	545	
Gas Sand			565	600	
First Salt			606	642	
Second Salt			680	768	
Third Salt			805	834	
Maxon			865	917	
Little Lime			1100	1108	
Big Lime			1154	1219	
Injun			1219	1327	
Gantz			1630	1658	
Fifty Foot			1666	1689	
Thirty Foot			1735	1747	
Stray			1762	1768	
Gordon			1772	1806	
Fourth			1876	1934	
Fifth			2048	2068	
Speechley			2749	2757	
Total old hole				2764	
New hole					
Sand & Shale			2764	3040	
Shale			3040	3115	
Sand & Shale			3115	3784	
Sand			3784	3792	
Sand & Shale			3792	3950	
Sand			3950	4875	T.D.
Plugged back total				4225	Plugged back bottom hole
Gamma Ray Tops					Gel 4875 - 4475
Speechley			2755	2772	Cement 4475 - 4350
Balltown			2841	3046	Gel 4350 - 4225
Riley			3651	3884	
Benson			4063	4080	
Alexander			4367	4449	

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(Attach separate sheets as necessary)

Consolidated Gas Transmission Corp.
Well Operator

By: J. P. Stevinn Manager of Production

Date: December 12, 1985

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic
detailed geological record of all formations, including
minerals encountered in the drilling of a well."

10/15/2021

WW-2A
(Rev. 6-14)

1). Date: 8/20/21
2.) Operator's Well Number 7049
State County Permit
3.) API Well No.: 47- 033 - 3185

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>William Michael McDonald</u>	Name _____
Address <u>10637 Good Hope Pike</u>	Address _____
<u>Jane Lew, WV 26378</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>William Michael McDonald</u>
_____	Address <u>10637 Good Hope Pike</u>
_____	<u>Jane Lew, WV 26378</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector	(c) Coal Lessee with Declaration
Address _____	Name _____
_____	Address _____
Telephone _____	_____

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TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas
OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.



Well Operator: Eastern Gas Transmission and Storage, Inc.
 By: John M. Love
 Its: Director of Storage
 Address: 925 White Oaks Blvd.
Bridgeport, WV 26330
 Telephone: 681-842-3311
 Email: john.love@bheats.com

Subscribed and sworn before me this 31st day of August, 2021 at Eastern Gas Transmission

Melissa D. Mars
Notary Public
My Commission Expires July 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 depprivacyofficer@wv.gov

10/15/2021

WW-2A Surface Waiver (4/16)

SURFACE OWNER WAIVER

County 033

Operator Eastern Gas Transmission and Operator well number 7849

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 57th St. SE Charleston, WV 25304 (304) 926-0450

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WV Department of Environmental Protection

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 FIFTEEN (15) 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...

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.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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 Date

Company Name By Its Date

Print Name

Signature Date

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WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Harrison
Operator Eastern Gas Transmission and Storage, Inc. Operator's Well Number 7849

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator ____ / owner ____ / lessee ____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. 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.

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

Signature			Date		Date
		Company Name			
		By			
		Its			
					Date
				Signature	Date

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Certified Mail Restricted Delivery	\$	0.00	
Postage	\$	1.56	
Total Postage and Fees	\$	8.36	

Sent to:
WILLIAM MCDONALD
10637 GOOD HOPE PIKE
JANE LEW, WV 26378

Coal

Reference Information

Alex Worley

PS Form 3800, Facsimile, July 2015

U.S. Postal Service®
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USPS® ARTICLE NUMBER
9314 7699 0430 0086 7823 61

Certified Mail Fee	\$	3.75	Postmark Here
Return Receipt (Hardcopy)	\$	3.05	
Return Receipt (Electronic)	\$	0.00	
Certified Mail Restricted Delivery	\$	0.00	
Postage	\$	1.56	
Total Postage and Fees	\$	8.36	

Sent to:
WILLIAM MCDONALD
10637 GOOD HOPE PIKE
JANE LEW, WV 26378

Surface

Reference Information

Alex Worley

PS Form 3800, Facsimile, July 2015

WW-2B1
(5-12)

Well No. 7849

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name	<u>Reliance Laboratories</u>
Sampling Contractor	<u>The Thrasher Group</u>

Well Operator	<u>Eastern Gas Transmission and Storage, Inc.</u>
Address	<u>925 White Oaks Blvd.</u>
	<u>Bridgeport, WV 26330</u>
Telephone	<u>681-842-3000</u>

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

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- Return Receipt (electronic) \$
- Certified Mail Restricted Delivery \$
- Adult Signature Required \$
- Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To

Street and Apt.

City, State, Zip

William Michael McDonald
10637 Good Hope Pk
Lost Creek, WV 26385



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

See reverse for instructions

7020 3160 0000 4073 0689

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- Certified Mail Restricted Delivery \$
- Adult Signature Required \$
- Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

Sent To

Street and Apt.

City, State, Zip

Jacob Walter and Karen A. Post
833 River Bend Road
Lost Creek, WV 26385



Postmark Here

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

See reverse for instructions

7020 3160 0000 4073 1471

10/15/2021

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Joseph Cheuvrant et al Merger Info	P.H. Gaffney See Attached Merger Exhibit	Storage	184/309

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: John M. Love
By: Its: Eastern Gas Transmission and Storage, Inc.
Director of Storage

10/15/2021

WW-2A1 – Exhibit A

- P.H. Gaffney assigned lease 5191 to J.F Donaldson on 11-22-1901
- J.F Donaldson assigned lease 5191 to the Philadelphia Company of West Virginia 11-29-1901.
- Philadelphia Company of West Virginia sold lease 5191 to Hope Natural Gas Company on 07-01-1939
- Hope Natural Gas Company merged with New York State Natural Gas Corporation on April 4, 1965. On the same date, Hope Natural Gas Company changed its name to Consolidated Gas Supply Corporation.
- On January 1, 1984, Consolidated Gas Supply Corporation assigned its leasehold interest to Consolidated Gas Transmission Corporation.
- On January 1, 1998, Consolidated Gas Transmission Corporation changed name to CNG Transmission Corporation.
- As a result of a merger with Dominion Resources, Inc., CNG Transmission Corporation changed name to Dominion Transmission, Inc on May 3, 2000.
- On August 1, 2017, Dominion Transmission, Inc. changed name to Dominion Energy Transmission, Inc.
- As a result of merger with Berkshire Hathaway Energy, Inc., Dominion Energy Transmission, Inc. changed name to Eastern Gas Transmission and Storage, Inc. on November 1, 2020.

4703303185W

WW-9
(5/16)

API Number 47 - 033 - 3185
Operator's Well No. 7849

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Eastern Gas Transmission and Storage, Inc. OP Code 307048

Watershed (HUC 10) West Fork River Quadrangle West Milford

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: NA

Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*S.D.W.
8/25/2021*

Will closed loop system be used? If so, describe: Yes, open top and closed top tanks will be used to store workover fluid and all returns during the well work.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

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

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? NA

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 _____

Company Official (Typed Name) John M. Love

Company Official Title Director of Storage

Subscribed and sworn before me this 31st day of August, 20 21

Melissa D. Mars

My commission expires July 5, 2025

Notary Public



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA

Melissa D. Mars
45 W. Main St. Bldg.
Bridgeport, WV 26330
My Commission Expires July 5, 2025

10/15/2021

Proposed Revegetation Treatment: Acres Disturbed 1.00 +/- Prevegetation pH _____

Lime pH Test _____ Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Timothy	4	Timothy	4
Orchard Grass	12	Orchard Grass	12
White Clover	3	White Clover	3

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: [Signature]

Comments: _____

Title: COG Inspector

Date: 8/25/2021

Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas

SEP 27 2021

WV Department of
Environmental Protection



DETAILS:
Quad: West Hillford
Drawn By: Inovermale Date: 8/10/2021
Surveyed By: Date:
Project No. 070-10307
Sheet Number: Overall



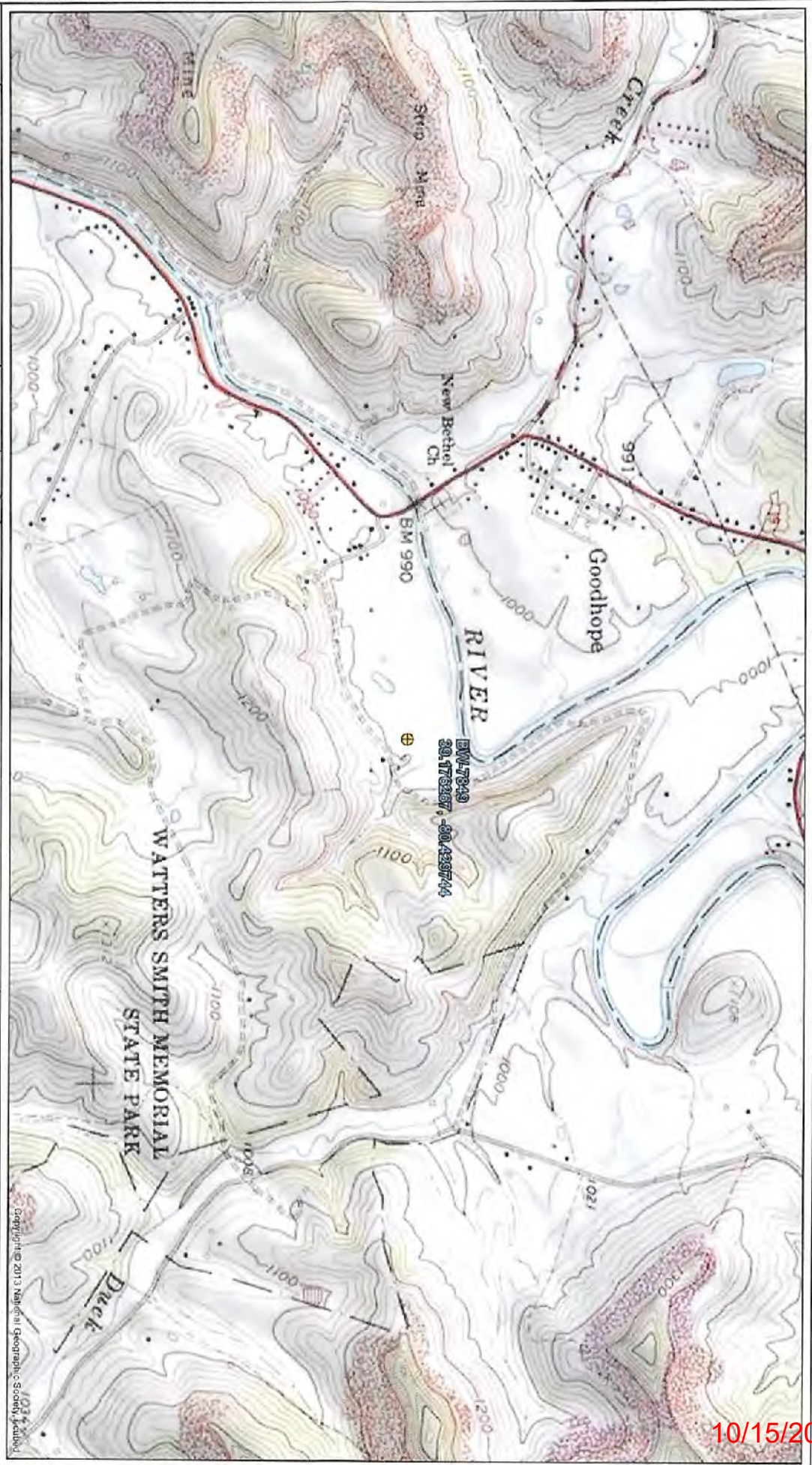
Legend
BW-7849 Well



BHE GTS

THRASHER

USGS Site Location
BW-7849 Well Project
Harrison County - West Virginia



10/15/2021

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4703303185W

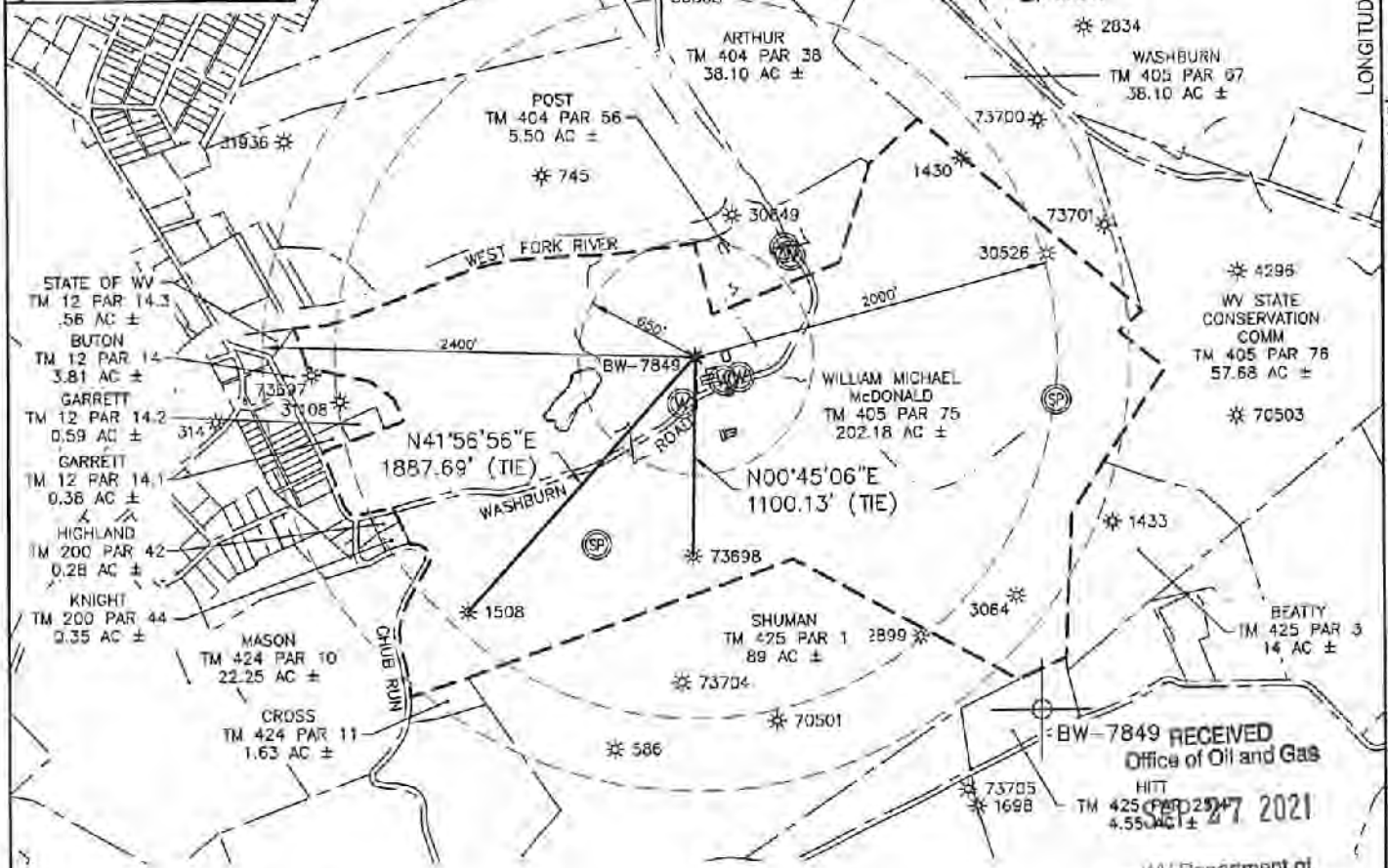
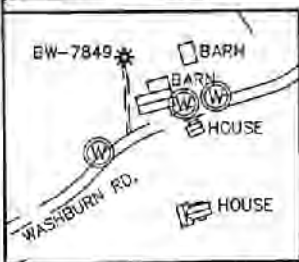
FORM WW-6

3,687

LATITUDE 39° 12' 30"

LONGITUDE 80° 25' 00"

EASTERN GAS TRANSMISSION & STORAGE INC. WELL NO. BW-7849



WELL NO. PW-8411 UTM 17-NAD 83(M) (NAD 83 NORTH ZONE) N: 4336485.398 E: 549262.527 STATE PLANE COORDINATES (NAD 83 NORTH ZONE) N: 247659.580 E: 1704947.777

NOTES: -PLAT ORIENTATION, CORNERS, AND WELL REFERENCES ARE BASED UPON THE GRID NORTH MERIDIAN FOR THE WV STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83. -THERE APPEARS TO BE SIX (6) WATER WELLS & TWO (2) SPRINGS LOCATED WITHIN 2000' OF WELL 7849. -THERE APPEARS TO BE 2 HOUSES AND 2 LARGE BARN'S WITHIN 650' OF WELL 7849



JOSEPH L. LOWTHER P.S. 2346

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.

Form section containing file number (3185), scale (1"=1000'), accuracy (1 in 200), proven source of elevation (DGPS), date (AUGUST 10, 2021), operator's well no. (BW-7849), API well no. (47-033-03185), and state/county/permit information.

Form section containing well type (LIQUID INJECTION), location (ELEVATION: 985.31, WATER SHED: WEST FORK RIVER), district (GRANT), county (HARRISON), acreage (202.18 AC ±), surface owner (WILLIAM MICHAEL McDONALD), lease acreage (200 AC ±), lease no. (52212), proposed work (PERFORATE NEW FORMATION), target formation (ALEXANDER JARVISVILLE), estimated depth (4,875 TVBD), well operator (EASTERN GAS TRANSMISSION & STORAGE INC.), and designated agent (JOHN M. LOVE).



4703303185W

WV DEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

To whom it may concern,

Please review this rework permit packet for Eastern Gas Transmission and Storage, Inc. well number 7849. A check for \$550.00 is included.

If you have any further questions or comments, please feel free to contact me by means of the information listed below.

Sincerely,

Alex Worley
Gas Storage Engineer III
Eastern Gas Transmission and Storage, Inc.
304-203-6243
Alexander.worley@bhegts.com

8/16/21
OK'd
330727
\$550.00

RECEIVED
Office of Oil and Gas
SEP 27 2021
WV Department of
Environmental Protection

10/15/2021



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

Re-Work Vertical Well Work Permit (API: 47-033-03185)

1 message

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

Wed, Oct 13, 2021 at 10:11 AM

To: John Love <john.love@bhegts.com>, baige.a.casto@dominionenergy.com, alexander.worley@bhegts.com, "Ward, Samuel D" <samuel.d.ward@wv.gov>, dpalmer@harrisoncountywv.com, mcopeland@harrisoncountywv.com

I have attached a copy of the newly issued well [permit](#) number "7849", **API (47-033-03185)**. This will serve as your copy.

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

2 attachments

 **47-033-03185 - Copy.pdf**
1388K

 **IR-26 Blank.pdf**
152K

10/15/2021