



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

Monday, June 14, 2021
WELL WORK PERMIT
Vertical / Re-Work

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

Re: Permit approval for AW910
47-041-02759-00-00

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.

A blue ink signature of James A. Martin.

James A. Martin
Chief

Operator's Well Number: AW910
Farm Name: BROWN, ALEX
U.S. WELL NUMBER: 47-041-02759-00-00
Vertical Re-Work
Date Issued: 6/14/2021

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.

WW - 2B
(Rev. 8/10)

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 Lewis Freemans Creek Big Isaac
Operator ID County District Quadrangle

2) Operator's Well Number: AW-910 3) Elevation: 1081.4

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

Ck#
328413
\$550⁰⁰
4/21/21

5) Proposed Target Formation(s): Gantz Proposed Target Depth: 2223

6) Proposed Total Depth: 2223 Feet Formation at Proposed Total Depth: Gantz

7) Approximate fresh water strata depths: ~~No Record~~ 20'

8) Approximate salt water depths: No Record

9) Approximate coal seam depths: 333-338

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)
 See attached Work Plan

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13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor						
Fresh Water	8-5/8"			1260'	1260'	Existing
Coal	7"			1958'	1255'	Existing
Intermediate	5-1/2"	K-55	17	2105'	2105'	Existing
Production	3-1/2"	J-55	9.2	2095'	2095'	CTS
Tubing						
Liners						

Packers: Kind: Formation Packer Shoe
 Sizes: 3.5"
 Depths Set Approx. 2095'

06/18/2021

AW-910: Work Plan**SPECIFICATIONS**

AW-910 is currently equipped with the following wellbore configuration:

- 10-3/4" casing seat @ 400' (casing pulled in 1907)
- 8-5/8" casing @ 1260'
- 7" casing @ 703' – 1958'
- 5-1/2" casing @ 2105' (cemented to surface)
- Gantz sandstone top @ 2146'
- TD @ 2165'

The objective of this phase is to eliminate annular oil flow to surface and protect freshwater intervals. is proposed, as follows:

- Complete federal and state permitting requirements, prior to commencing well workover activities.
- Install 20 " conductor into bedrock, and grout cement in place
- Install 7-1/16" 3M X 5-1/2" 8rd tubing head
- NU BOPs to the tubing head. Test stack.
- Install mechanical bridge plug in 5-1/2" casing, immediately above casing seat
- Cut window in 5-1/2" casing, above 7" casing top.
- Perforate 8-5/8" casing, across the 5-1/2" casing window interval.
- Pump fresh water-based fluids and establish circulation from the 10-3/4" x 8-5/8" and 16" x 10-3/4" casing annuli.
- Pump cement down the 5-1/2" casing, through the 8-5/8" casing perforations, and up the 8-5/8" and 10-3/4" casing annuli. Both annuli will be cemented simultaneously, by means of selectively isolating well annuli and diverting returns.
- Drill out the cement from the 5-1/2" casing and remove the mechanical bridge plug.
- Run 3.5" tubing with formation packer shoe BHA to an approx. depth of 1820'
- MIRU cementers
- Cement the 3.5" tubing to surface as follows
 - Lead – standard cement with 3% Halad 344 or equivalent. Weight 15.4 ppg
 - Tail – standard cement with 0.5% Halad 344 or equivalent and 2% CaCl₂

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- MU master valve and BOP to the tubing head
- MU bit and TIH to drill out 3.5" shoe and clean out open hole section
- Acidize storage horizon to remediate any residual cement.
- TOH.
- Unload the well, and return to service

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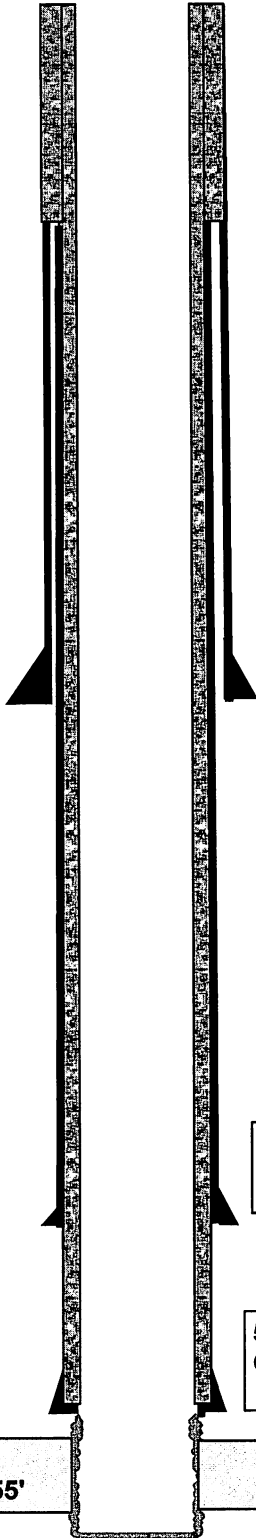
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06/18/2021

Fink Storage
 AW-910 [I/W]
 API # 47-041-02759
 1085' [GL]

4704102759



8 5/8" Csg. @ 1260' [1907]

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61' of 5.5" abd in lower hole betw 2223'-2686'

7" Csg stub 703'- 1958', (2020 HRVRT shows csg 1276'-1962') [1907]

5 1/2", 17#/ft, K-55 Csg @ 2105' and CTS [1950]

Gantz
 2134'- 2155'

Log TD: 2215' [2020 GNT]
 TD: 2223'

Well Name & Number:		AW-910		Lease	Alexander Brown		
County or Parish:		Lewis	State/Prov.	WV	Country:	USA	
Perforations: (MD)				(TVD)	2223'		
Angle/Perfs	Angle @KOP and Depth				KOP TVD		
BHP:	BHT:			Completion Fluid:			
FWHP:	FBHP:			FWHT:	FBHT:	Other:	
Date Completed:	05/10/07					RKB:	06/18/2021

Lease 2507
Form H 487 20 Bks. 8-49

96 1/2 ACRES
Hope Natural Gas Company

#20000 W. 5-10-51
N 28 E 2 W 23

Well No. 910 Storage

Report on Defective Well

Gilmer Working District

Name Alex Brown Freeman's Creek District Lewis County

GAS	ORIGINAL TEST						TEST TAKEN FOR THIS REPORT					
	Date	Reading	Liquid	Opening	Rock	Sand	Date	Reading	Liquid	Opening	Rock	Sand
	5-10-07	64/10	Water	6-5/8"	515	Gantz	No test taken - Fink Gas Storage Well					
OIL	Barrels (Daily) (Monthly)						Barrels (Daily) (Monthly)					

Record of Casing and Tubing in this Well:

13 inch..... 10 inch..... 8 1/4 inch..... 1260..... 6 3/8 inch..... 1950..... 5 7/8 inch..... 2550..... Tubing { 2223 of 2 inch
 of inch

History of Well:

Depth of Pittsburgh Coal 335 Original Depth: 2225 2165' Present Depth: 2223
 Well Producing { Gas Gantz Sand at depths of { 2147 Oil Produced by
 { Oil Sand Condition of Rig Fair
 Amount of Cavings in hole: none Amount of Water: unkn. " Amount of Oil: none
 Date well cleaned out: Water is pumped from well. Result:

Date of Shot	Size	Sand	Result
2-10-14-42	50 gts.	Gantz	No gas to 6/10 W 1/4" FR

What should be done with well in my opinion: Pull string of 5 1/2" 15' Casing and run string of 5 1/2" 17' Casing. Cement between 7" and 5 1/2" Casing.

Date July 14, 1950 Geo. M. McCallum District Superintendent

I would recommend As suggested above

Date Approved E. A. Hill of Smith Division Superintendent General Superintendent

Repair as per recommendation of General Superintendent

Date JUL 31 1950 J. R. Hill Vice President

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TELEGRAM
NATURAL GAS

TELEPHONE & TELEGRAPH DEPARTMENT

Alum Bridge Nov 14 1950

G J Rampp
J B Corrin
Clarksburg W.Va.

56/10 Merc 2" 1166M

Test before repairs
910 Brown S 22 W 2 Gilmer Dist. Orders pull 13# 5 1/2" casing, Run string
17# 5 1/2" casing and cement between 7" and 5 1/2" casing. Gantz 2146 to 53. Gas 2147. Test
56/10 M 2" O F 1166 M. Total depth 2223. Ran 2105 Ft 17# 5 1/2" casing and cemented to
surface. Cleaned out on Bottom. Suggest shut in on 5 1/2" casing.

H R Britton Means 1127 AM.

E.H.TOLLEFSON:
Suggest shut in on 5 1/2" casing.

Geo. J. Rampp-Newell

J.G.Rhodes
J.A.Clark
E.H.Tollefson
2 J.H.Newell

Shut in on 5 1/2" casing.
E.H.Tollefson-WWM 11-16-50

Shut-in on 5 1/2" casing E.H.T.

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Drilling Deeper
Abandoning

Drilling Deeper **4704102759W**
Abandoning

CASING AND TUBING RECORD

Size	Before Repairs		Pulled		Put in Well		After Repairs		Weight
	Tally	Steel Line	Tally	Steel Line	Tally	Steel Line	Tally	Steel Line	
8-5/8"	1260	✓	none	✓	none	✓	1260	✓	24.00
7"	1958	✓	703	✓	none	✓	1255	✓	20.00
5-1/2"	1992	✓	1992	✓	2122	✓ 2105	2122	✓ 2105	17.00
2-3/8"	2223	✓	2223	✓	none	✓	none	✓	4.60

SHOOTING RECORD (Show if Open Shot or Tamped Shot)

Date	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
Not shot													

RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom	Oil at	Gas at
Commenced drilling at depth of	no deeper drilling		✓	
Total Depth		2223	✓	

PACKER RECORD

Size	Kind	Set At (Steel Line)
5 1/2"	Casing ran on St. shoe @	2105
PACKER PULLED		
Size 6-5/8x5-3/16" Kind Disc Wall		
OIL PRODUCTION		
Estimated	bbl. per day	Sand
CLARKSBURG OFFICE ENTRIES		
Repair Card	✓ W.D.N. 12/9/50	
Well Card	✓ " " "	
Memo Book	✓	
Wall Map	✓	
Map Sheets	RECEIVED Office of Oil and Gas	

VOLUME AND PRESSURE REPORT

BEFORE CLEANING OUT (Take Test When Ready to Clean Out)

MAY 12 2021

VOLUME TEST

Date of Test	Flow Meter or Open Flow	PITOT TUBE			CUBIC FEET	Sands Gas From	Time Blown
		Reading	Liquid Used	Opening			
October 13, 1950	OF	56/10	Mercury	2"	1,166,000	Gantz	2 hrs

AFTER CLEANING OUT

VOLUME TEST

Date of Test	Flow Meter or Open Flow	PITOT TUBE			CUBIC FEET	Sands Gas From	Time Blown
		Reading	Liquid Used	Opening			
November 14, 1950	OF	56/10	Mercury	2"	1,166,000	Gantz	4 hrs

AFTER DRILLING DEEPER

VOLUME TEST

Date of Test	Flow Meter or Open Flow	PITOT TUBE			CUBIC FEET	Sands Gas From	Time Blown
		Reading	Liquid Used	Opening			

PRESSURE TEST

Date of Test	Opening	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	6 Min.	7 Min.	8 Min.	9 Min.	10 Min.	30 Min.	60 Min.	Hrs.	Rev.

06/18/2021

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WW-2A
(Rev. 6-14)

1). Date: 3/9/21
2.) Operator's Well Number AW-910
State County Permit
3.) API Well No.: 47- 041 - 02759

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:
(a) Name Clarence Owens Ferguson
Address 10030 Round Mountain Road
Bakersfield, CA 93308
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector _____
Address _____
Telephone _____

5) (a) Coal Operator
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name Western Pocahontas Properties Limited
Address 5260 Irwin Road
Huntington, WV 25705
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

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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

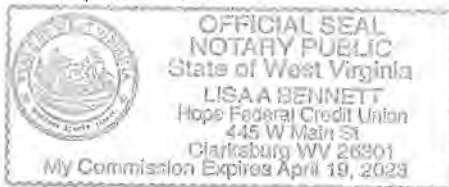
Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through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

Subscribed and sworn before me this 6 day of April, 2021, Eastern Gas Transmission

Lisa A. Bennett Notary Public
My Commission Expires April 19, 2023

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

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: Western Pochanitos Practice
 Street and Apt. No., or PO Box No.: 5200 Edwin Rd.
 City, State, ZIP+4®: Huntington, WV 25705

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

4/16

Postmark Here

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: Clarence Ferguson
 Street and Apt. No., or PO Box No.: 10030 Round Mountain Road
 City, State, ZIP+4®: Bakersfield, CA 93308

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

4/16

Postmark Here

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WV Department of Environmental Protection

06/18/2021

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WW-2A Surface Waiver
(4/16)

SURFACE OWNER WAIVER

County 041 Operator Eastern Gas Transmission and
Operator well number AW-910

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:

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

WV Department of
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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 _____

06/18/2021

4704102759W

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Lewis
Operator Eastern Gas Transmission and Storage, Inc. Operator's Well Number AW-910

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

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

06/18/2021

**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
Pittsburgh and West Virginia Gas Company Merger Information	Hope Natural Gas Company See Exhibit A	1/8	156/420

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**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

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

4704102759W

WW-2A1 – Exhibit A

- 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.

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WW-2B1
(5-12)

Well No. AW-910

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>Fairway Laboratories</u>	
Sampling Contractor	<u>The Thrasher Group</u>	RECEIVED Office of Oil and Gas
		MAY 12 2021
Well Operator	<u>Eastern Gas Transmission & Storage, Inc.</u>	
Address	<u>925 White Oaks Blvd.</u>	WV Department of
	<u>Bridgeport, WV 26330</u>	Environmental Protection
Telephone	<u>681-842-3311</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.

SEE ATTACHED MAIL RECEIPTS.

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee
 MH 019

B. Received by (Printed Name)
 MH 019

C. Date of Delivery
 4/21/21

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Priority Mail Express®
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Insured Mail
 Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION 270

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Pamela Ivy Jackson
 1094 Smoke Camp Rd.
 Weston, WV 26452


 9590 9402 4184 8121 1189 08

2. Article Number (Transfer from service label)
 7019 1120 0001 8986 8795

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee
 Pamela Jackson

B. Received by (Printed Name)
 Pam JKT

C. Date of Delivery
 4-22-21

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Priority Mail Express®
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Insured Mail
 Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Bernard Sachs
 c/o Crystal Mich
 567 Smoke Camp Rd.
 Weston, WV 26452


 9590 9402 4184 8121 1188 61

2. Article Number (Transfer from service label)
 7019 1120 0001 8986 8825

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee
 Bernard Sachs

B. Received by (Printed Name)
 Bernard Sachs

C. Date of Delivery
 4-22-21

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Priority Mail Express®
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Insured Mail
 Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.
 ■ Print your name and address on the reverse so that we can return the card to you.
 ■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Darren B & Claudia Cox
 13 Chemar Dr.
 Hurricane, WV 25526


 9590 9402 4184 8121 1189 22

2. Article Number (Transfer from service label)
 7019 1120 0001 8986 8764

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee
 Darren Cox AS

B. Received by (Printed Name)
 Darren Cox AS

C. Date of Delivery
 4-21-21

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
 Priority Mail Express®
 Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Insured Mail
 Insured Mail Restricted Delivery (over \$500)

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

06/18/2021

250



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 4184 8121 1189 08

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

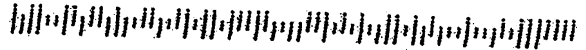
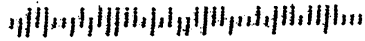
RECEIVED

APR 28 2021

The Thrasher Group, Inc.
ATTN: Tyler Spear
600 White Oaks Blvd.
Bridgeport, WV 26330

Print your name, address, and ZIP+4® in this box•

Thrasher Group, Inc.
ATTN: Tyler Spear
600 White Oaks Blvd.
Bridgeport, WV 26330



USPS TRACKING#



9590 9402 4184 8121 1188 61

CHARLESTON

WV 250
22 APR 21
PM 4 L



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

APR 28 2021

The Thrasher Group, Inc.
ATTN: Tyler Spear
600 White Oaks Blvd.
Bridgeport, WV 26330

RECEIVED
Office of Oil and Gas

MAY 12 2021

WV Department of
Environmental Protection

USPS TRACKING#



9590 9402 4184 8121 1189 22



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

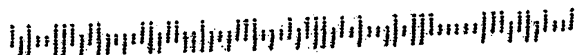
APR 22 2021

United States
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

The Thrasher Group, Inc.
ATTN: Tyler Spear
600 White Oaks Blvd.
Bridgeport, WV 26330

-465000



06/18/2021

4704102759W

WW-9
(5/16)

API Number 47 - 041 - 02759
Operator's Well No. AW-910

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) Smoke Camp Run Quadrangle Big Isaac

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 Meadowfill Landfill, Bridgeport, WV)

Will closed loop system be used? If so, describe: YES, OPEN TOP AND CLOSED TOP TANKS WILL BE USED, EFFLUENT,

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 [Signature]

Company Official (Typed Name) John M. Love

Company Official Title Director of Storage

Subscribed and sworn before me this 6 day of April

Lisa A. Bennett

My commission expires April 19, 2023

20 21

Notary Public

OFFICIAL SEAL
NOTARY PUBLIC
State of West Virginia
LISA A BENNETT
Hope Federal Credit Union
445 W Main St
Clarksburg WV 26301
My Commission Expires 06/18/2021

RECEIVED
Office of Oil and Gas
MAY 12 2021
WV Department of
Environmental Protection

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 Hay or Straw 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: _____

Bany Stiles

Comments: _____

RECEIVED
Office of Oil and Gas

MAY 12 2021

WV Department of
Environmental Protection

Title: _____

inspector

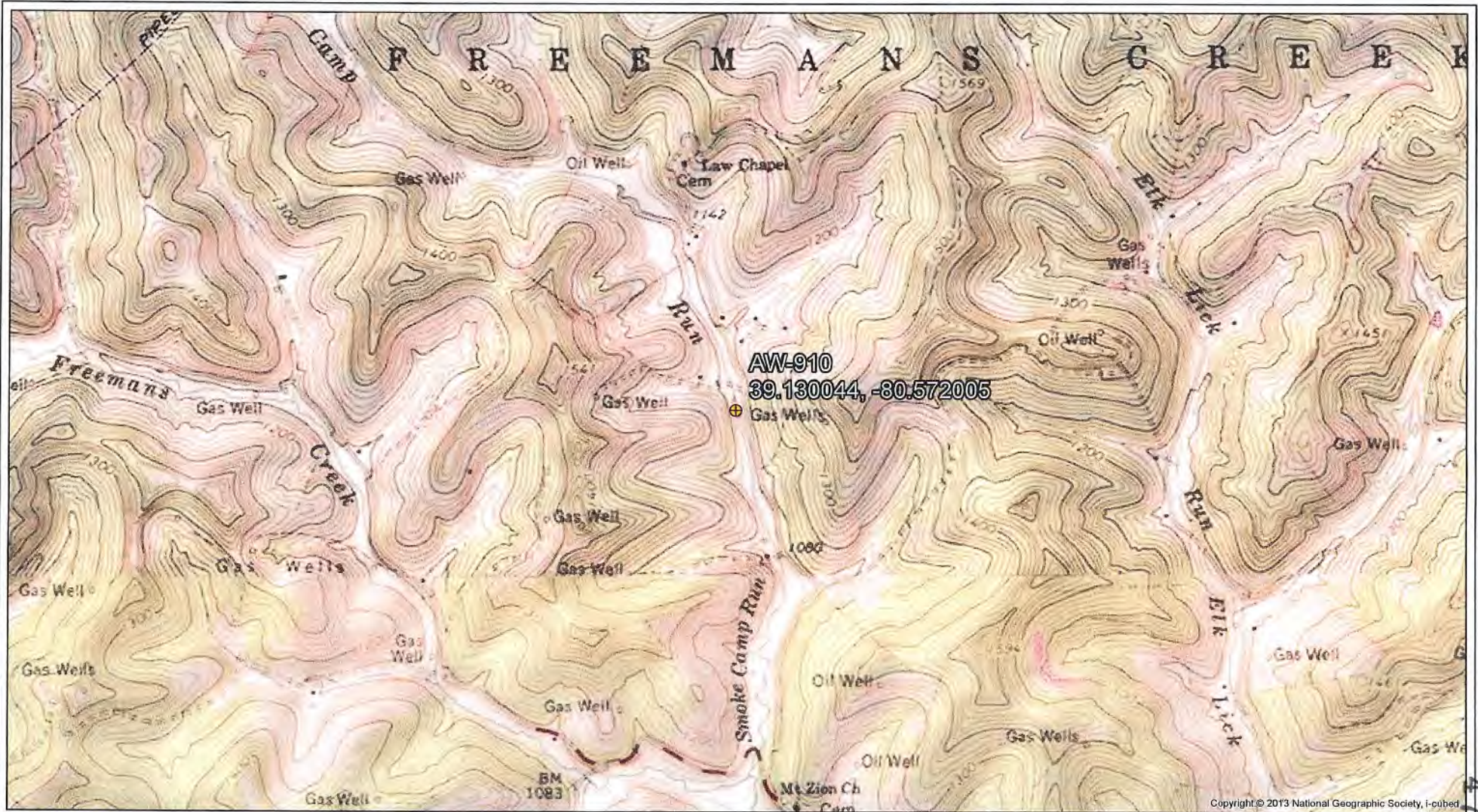
Date: _____

3-25-21


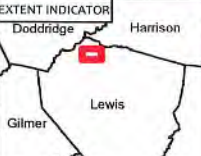

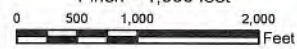

Field Reviewed? _____

() Yes

() No



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	DETAILS:	EXTENT INDICATOR 	Legend  AW-910 Well WV Department of Environmental Protection Office of Oil and Gas MAY 12 2021	1 inch = 1,000 feet 	Figure 1: USGS Site Location AW-910 Well Project Lewis County - West Virginia 
	Quad: Big Issac				
	Drawn By: eanglin Date: 4/5/2021				
	Surveyed By: JW Date: 7/24/2020				
	Project No. 070-10307				
Sheet Number: Overall					

Document Path: R:\070-10307-00 - EGTS WELL WORKING\SMO\AW910_USGS.mxd


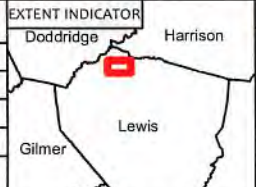
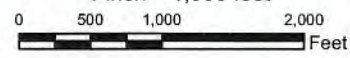


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47 041 027 59W



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Document Path: R:\070970_10307_00 - EGTS WELL WORK\GIS\MXD\AW-910_USGS.mxd

	DETAILS:	EXTENT INDICATOR 	Legend	1 inch = 1,000 feet 	Figure 1: USGS Site Location AW-910 Well Project Lewis County - West Virginia
	Quad: Big Issac		 AW-910 Well		
	Drawn By: eanglin Date: 4/5/2021				
	Surveyed By: JW Date: 7/24/2020				
Project No. 070-10307					
Sheet Number: Overall					

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17

4704102759W

4704102759W

FORM WW-6

LATITUDE 39° 10' 00"

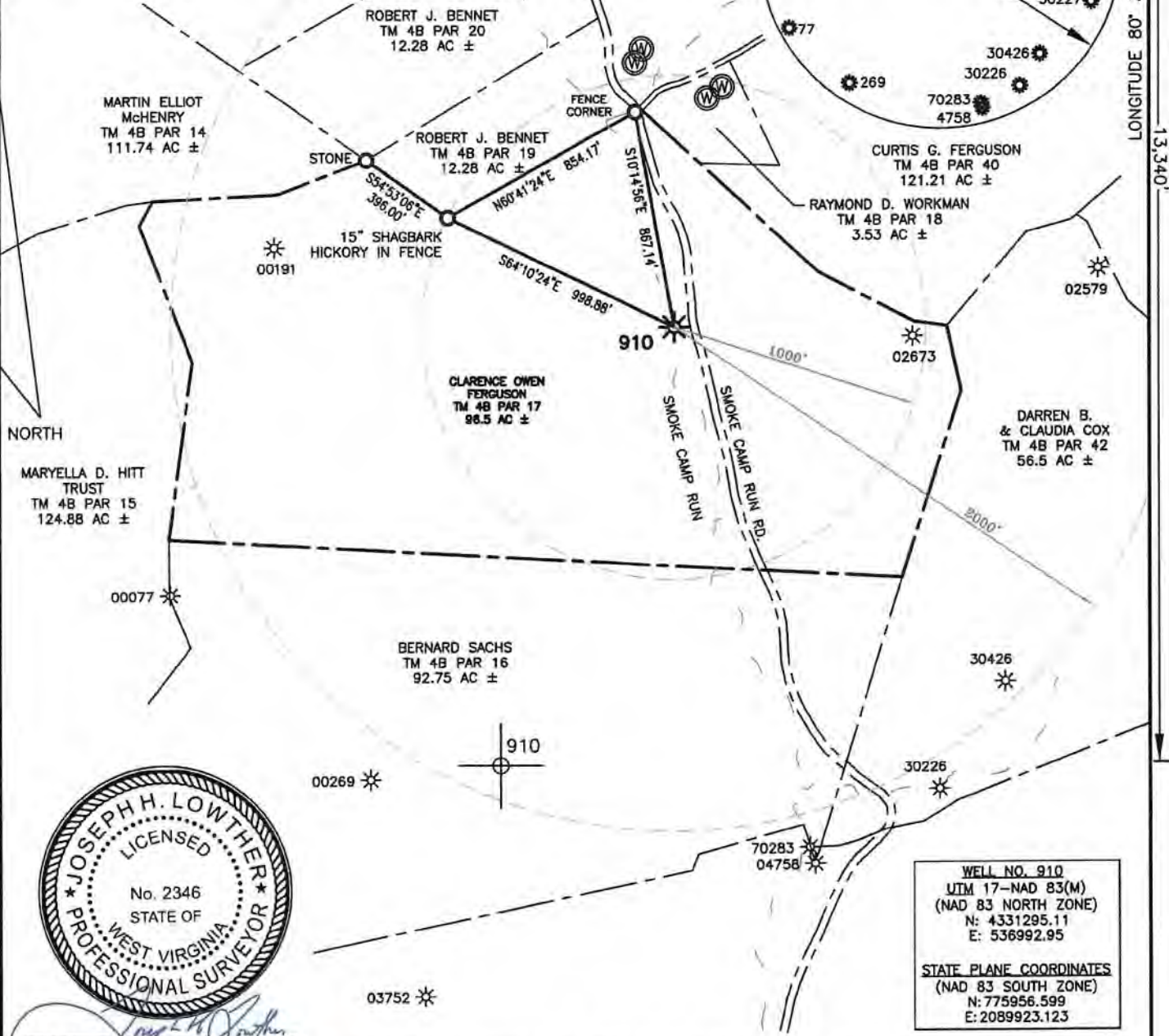
8,607'

**EASTERN GAS TRANSMISSION & STORAGE INC.
WELL NO. 910**

NOTES:
-PLAT ORIENTATION, CORNERS, AND WELL REFERENCES ARE BASED UPON THE GRID NORTH MERIDIAN FOR THE WV STATE PLANE COORDINATE SYSTEM, SOUTH ZONE NAD 83. WELL LOCATION REFERENCE TIES ARE BASED UPON THE MAGNETIC MERIDIAN.

-THERE APPEARS TO BE TWO (2) WATER WELLS LOCATED WITHIN 1000' OF WELL 910.

W WATER WELL



NORTH

LONGITUDE 80° 32' 30"

13,340'



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.

WELL NO. 910
UTM 17-NAD 83(M)
(NAD 83 NORTH ZONE)
N: 4331295.11
E: 536992.95
STATE PLANE COORDINATES
(NAD 83 SOUTH ZONE)
N: 775956.599
E: 2089923.123

FILE NO. 2507
SCALE: 1"=600'
MINIMUM DEGREE OF ACCURACY: 1 in 200
PROVEN SOURCE OF ELEVATION: DGPS (Submeter Mapping Grade)



DATE MAY 18, 2021
OPERATOR'S WELL NO. 910
API WELL NO. 47 - 041 - 02759
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS"), PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1081.40' WATER SHED: SMOKE CAMP RUN
DISTRICT: FREEMANS CREEK COUNTY: LEWIS
QUADRANGLE: BIG ISAAC 7.5' ACREAGE: 96.5 AC ±
SURFACE OWNER: CLARENCE OWEN FERGUSON LEASE ACREAGE: 92.5 AC ±
OIL & GAS ROYALTY OWNER: MIKE ROSS INC. LEASE NO. 2507



PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PERFORATE NEW FORMATION PLUG OFF OLD FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) REPAIRING

06/18/2021

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION: GANTZ ESTIMATED DEPTH: 2,223' TVD

WELL OPERATOR: EASTERN GAS TRANSMISSION & STORAGE INC. DESIGNATED AGENT: JOHN M. LOVE
ADDRESS: 925 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 ADDRESS: 925 WHITE OAKS BLVD. BRIDGEPORT, WV 26330

47-041-02759 W

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

Ch#
328413
\$550⁰⁰
4/21/21

To whom it may concern,

Please review this rework permit packet for Eastern Gas Transmission and Storage, Inc. well number AW-910. The state completion report could not be found for this well. However, I included the well work report from 1950.

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.
681-842-3223
Alexander.worley@bhegts.com

RECEIVED
Office of Oil and Gas

MAY 12 2021

WV Department of
Environmental Protection

06/18/2021

WV Coal Mining

4704102759 W



May 6, 2021

Mask Other States

County Labels

Counties

State Boundary

Underground Mining

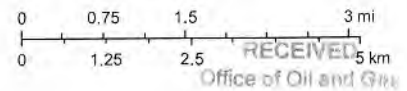
Surface Mining

Surface Mined

Auger Mined

Highwall Mined

1:72,224



RECEIVED
MAY 12 2021
Office of Oil and Gas

WV Department of
Environmental Protection

West Virginia Geological and Economic Survey, Coal Bed Mapping Program
WVGES
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

06/18/2021

West Virginia Geological and Economic Survey (WVGES)
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