

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

Thursday, September 16, 2021 WELL WORK PERMIT Vertical / Re-Work

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

Re: Permit approval for 8411 47-041-02362-00-00

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:8411Farm Name:GARRETT, EDWARD EARLU.S. WELL NUMBER:47-041-02362-00-00VerticalRe-WorkDate Issued:9/16/2021

Promoting a healthy environment.

# 4704102362W

## **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. <u>Failure to adhere to the specified permit</u> 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)	47-041-023621 x = 330726 Amount: \$1550.00 Pate: 8/16/21
<u>STATE OF WE</u> DEPARTMENT OF ENVIRONMENTAL P WELL WORK PER	ROTECTION, OFFICE OF OIL AND GAS
1) Well Operator: Eastern Gas Transmission and Storage, Inc.	307048LewisFreemans CreekBig IsaacOperator IDCountyDistrictQuadrangle
2) Operator's Well Number: <u>8411</u>	3) Elevation: <u>1191</u>
<ul> <li>4) Well Type: (a) Oil or Gas X</li> <li>(b) If Gas: Production X / Under Deep / Sh</li> <li>5) Proposed Target Formation(s): Gantz</li> <li>6) Proposed Total Depth: 4656 Feet F</li> <li>7) Approximate fresh water strata depths:</li> <li>8) Approximate salt water depths:</li> </ul>	Proposed Target Depth: <u>1982</u> ormation at Proposed Total Depth: <u>Benson</u>
<ul> <li>9) Approximate coal seam depths: <u>170-175'</u></li> <li>10) Approximate void depths,(coal, Karst, other):</li> </ul>	NA
11) Does land contain coal seams tributary to acti 12) Describe proposed well work and fracturing metho See atthaced work plan	
12) Describe proposed well work and fracturing methods See atthaced work plan	AUG 20 2021
TO OBSERVATION ONLY WELL	Environmental Protection

13)	CASING AND TUBING PROGRAM					
	PECIFIC	ATIONS		FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	<u>Fill -up (Cu. Ft.)</u>
Conductor						
Fresh Water	7"			1717'	1717'	Existing
Coal						
Intermediate	5-1/2"			2707'	2707'	Existing
Production	3-1/2"	2		4656'	4656'	Existing
Tubing	1-1/2"			4539'	4539'	Existing
Liners			n.			

Packers: Kind: Sizes: Depths Set 09/17/2021

## 4704102362W

#### 8411 Work Plan

- 1. MIRU service rig and ancillary equipment.
- 2. Pull 1.5" tubing and rods.
- 3. MU working valve to the 3.5 tubing
- 4. MIRU wireline and run integrity logs on 3.5" tubing
- 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 4656.
- 8. RU Cementers and pump balanced plug from 4656 to 2060' in 500' increments
- 9. Wash off cement top at 2060' and TOH to 1000'
- 10. Wait on cement
- 11. TIH and tag cement top. If below 2060', pump balanced plug from cement top to 2060'
- 👍 12. MIRU wireline, perforate 2050'
  - 13. Pump kill weight fluid down the 3.5 tubing and up the 3.5X 5.5 annulus to load the annulus
  - 14. Take off 5.5" casing head, and slip over 5.5"x 7-1/16" 3M companion flange, MU to spec.
  - 15. NU spool and BOP to the companion flange.
  - 16. PU spear and pull 5000' over string weight into 3.5"
  - 17. TIH with cutters, and cut 3.5" at 2050'
  - 18. TOH with cutters, prepare to pull free 3.5" tubing, while maintaining circulation on 3.5" annulus
  - 19. Pull free 3.5" tubing. Swab well dry for integrity logging.
  - 20. MIRU wireline. Run integrity logs of 5.5"
  - 21. TIH and set RBP at 1800'. Test-RPB- RBP
  - 22. Set second RBP at 900'. Test RPB RBC
  - 23. RDMO service rig and equipment.
  - 24. MIRU top joint crew
  - 25. Replace top joints of casing and put new 7 X 11 3M wellhead on well
  - 26. Install 5.5X11 head and install slips
  - 27. Install 7-1/16" tree and pressure test wellhead assembly

A ALEY WORLEY ASSURES TOC OF 31/2" CASING IS 2060' DWM gly (2021

Office of Oil and Gas AUG 2 0 2021 WV Department of Environmental Protection

50W 8/3/2024

4704102362W

API # 47-041-2362D

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: E. E. Garrett

Operator Well No.: 8411

Quadransle: Big Issac Elevation: 1192 LOCATION:

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County: Lewis ... District: . Freemans Creek Latitude; 10,700 Feet South of 39 Deg.10 Min, 00 Sec. 4,760 Feet West of 80 Des.30 Min.00 Sec, Lonsitude

445 WEST MAIN ST Clarksburg, WV	Casing     &   Tubing		L	Cement    Fill Up   Cu. Ft.
Asent: GLENN A. KNEPPER	   Size			
Inspector: Stephen Casey Permit Issued: 04/27/88 Well work Commenced:05/13/88 Well work Completed:06/14/88	  6_5/8"	   :	1717	    
Verbal Flugging	5 1/2"	2707	2707	200 sks
Fermission granted on: RotaryX Cable Kig Total Depth (feet)4717 Fresh water depths (ft)n/a]	3 1/2	1 14655.7 1	4655.7	   150 sks   
Salt water desths (ft)n/a		l 	l	
Is coal being mined in area (Y/N)?N Coal Depths (ft):170-175	   	I Office Of C	EIVED Wand Gas	     

OPEN FLOW DATA

3305-3473 4414-4420

WV Department of Environmental Broth (ft) 4544-4551 Froducing formation\_Benson, Riley, Balltown\_\_\_Pay zone Gas: Initial open flow\_NI\_\_\_\_MCF/d Gil: Initial open flow NI\_\_\_\_\_Bbl/d Final open flow\_\_\_\_MCF/d Final open flow \_NT\_\_\_\_\_Bb1/d Time of open flow between initial and final tests\_\_NT\_\_\_ ----Hours Static rock Pressure\_1400\_\_\_\_psis (surface pressure) after 14 days HXXX5

Second producing formation\_\_\_\_\_ Pay zone depth (ft)\_\_\_\_\_ Gas: Initial open flow\_\_\_\_\_MCF/d Oil: Initial open flow\_\_\_\_\_Bb1/d Final open flow \_\_\_\_\_Bbl/d Final open flow\_\_\_\_\_MCF/d Time of open flow between initial and final tests\_\_\_\_\_Hours Static rock Pressure\_\_\_\_\_Psig (surface pressure) after \_\_\_\_\_Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL INTERVALS, FRACTURING LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

TKANSMISSION CORP. For: CNG Ru: \_<u>February 6, 1989</u>

WR-35 .

Perforate Benson 4546-4551 with 15 holes; perforate Riley 4416-4419 with 6 holes. Total 21 holes - 0.36" diameter. Fracture with 500 gal. 15% acid, 600 bbl. water, 40,000 lb. sand and 30 lb. gel system.

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Perforate Balltown 3416-3418, 3439-3443, 3458-3462 and 3466-3472 with 20 holes, 0.36" hole size. Fracture with 750 gal. 15% acid, 900 bbl. water, 30 lb. gel system and 70,000 lb. sand.

Total Depth 4717

RECEIVED Office of Oil and Gas AUG 2 0 2021 WV Department of Environmental Protection

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Const Constant Gas

09/17/2021

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WR-35 .

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API # 47-041-2362D

#### State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: E. E. Garrett

Operator Well No.: 8411

Elevation: 1192 LOCATION:

Quadransle: Big Issac

AUG 2 0 2021 District: Freemans Creek County: Lewis WV Department of Latitude: 10,700 Feet South of 39 Des.10 Min. 00 Sec., Mental Protection Longitude 4,760 Feet West of 80 Des.30 Min.00 Sec., Mental Protection

| Casing | Used in | Left ICement | 445 WEST MAIN ST IFill UPI 1 8 1 CLARKSBURG, WV 1 | Tubins | Drilling | in Well|Cu. Ft.| Agent: GLENN A. KNEPPER -----L | Size 1 1 Inspector: Stephen Casey 1 1 Permit Issued: 04/27/88 6 5/8" 1717 Well work Commenced: \_\_05/13/88\_\_\_\_\_ Well work Completed: \_\_06/14/88\_\_\_\_\_ 1 1 1 5 1/2" 1 1 2707 200 sks Verbal Flussins 2707 Permission granted on:\_\_\_n/a\_\_\_\_\_ -----Rotary\_\_X\_\_ Cable \_\_\_\_\_ Nid Total Depth (feet) \_4717\_\_\_\_\_ 1 1 1 4655.7 <sup>1</sup>150 sks 1 4655.7 3 1/2 Fresh water depths (ft) \_n/al\_\_\_\_ Salt water depths (ft) \_\_\_\_\_a\_\_\_\_ Gas 

 Partns (ft):\_\_1ZQ-1Z5
 Image: FLOW DATA

 FLOW DATA
 Depths (ft):\_\_1ZQ-1Z5

 Producing formation\_Benson, Riley\_Ballrown\_Pay zone depth (ft)9644-4551

 Gast Initial area flow NT

 Is coal being mined in area (Y/N)? N Coal Depths (ft):\_\_170-175\_\_\_\_\_ OPEN FLOW DATA Gas: Initial open flow\_NT\_\_\_\_MCF/d Oil: Initial open flow NT\_\_\_\_\_Bb1/d Final open flow \_\_\_\_\_Bb1/d Final open flow\_\_\_1100\_\_\_\_MCF/d Time of open flow between initial and final tests\_\_NT\_\_\_\_\_Hours Static rock Pressure\_1400\_\_\_\_psid (surface pressure) after 14 days HXXXs Second producing formation\_\_\_\_\_ Pay zone depth (ft)\_\_\_\_ Gas: Initial open flow\_\_\_\_\_MCF/d Oil: Initial open flow\_\_\_\_\_Bb1/d Final open flow\_\_\_\_\_MCF/d Final open flow \_\_\_\_\_Bbl/d o Time of open flow between initial and final tests\_\_\_\_\_Hours & Static rock Pressure\_\_\_\_\_Psid (surface pressure) after \_\_\_\_\_Hours N Gu NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED 5 INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL N LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, () INCLUDING COAL ENCOUNTERED BY THE WELLBORE. For: CHG TRANSMISSION CORP. \*\*\*\* By:\_ Date February 6, 1989

Perforate Benson 4546-4551 with 15 holes; perforate Riley 4416-4419 with 6 holes. Total 21 holes - 0.36" diameter. Fracture with 500 gal. 15% acid, 600 bbl. water, 40,000 lb. sand and 30 lb. gel system.

Perforate Balltown 3416-3418, 3439-3443, 3458-3462 and 3466-3472 with 20 holes, 0.36" hole size. Fracture with 750 gal. 15% acid, 900 bbl. water, 30 lb. gel system and 70,000 lb. sand.

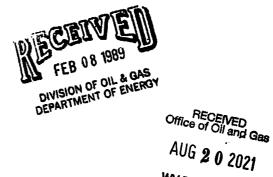
Dunkard	540- 572
Big Dunkard	625- 670
Salt Sand	1002-1160
2nd Salt Sand	1170-1365
Injun	1803-1805
Squaw	1810-1825
Gantz	1980-2025
Fifty Foot	2172-2220
Gordon	2320-2340
Fifth	2479-2514
Speechley	3192-3206

4717

Total Depth

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WV Department of Environmental Protection



4704102362W



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TV-35	Sectory Lines	LITURE CONTRACTOR	Date	April 6,	1988
Rev 8-81)			Operato	r's . 841	1
	State of Ae	st Bugin			
	Department			W. T. Hi	
	Gil und Ca:	noieivi£ a	API NO.	<u>4.7 01</u>	1 - 2362
	WELL OPERATOR	R'S REPORT			
D	RILLING, FRACTURING AND/OR STI	MULATING, O	R PHYSICA	L CHANGE	
_					
WELL TYPE: Oil (If	/ Gas <u>X_</u> / Liquid Injection/ Undergro	on/Wast ound Storag	e Disposa e/ Deep	l/ p/ Sha	11aw/)
LOCATION: Elev	ation: 1192' Watershed	Hog Camp	Run		
Dist	rict: Freemans Creek County Lewis	s	Quadrangle	Big Isa	<u>ac</u>
	nsmission Corp.				[Comont ]
	Main St., Clarksburg, WV	Casing	Used in	Left	Cement fill up
DESIGNATED AGEN	T Glenn A. Knepper	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 445 W.	Main St., Clarksburg, WV	Size			
SURFACE OWNER	Edward Earl Garrett	20-16 Cord.		_	
ADDRESS Rt. 1,	Weston, WV 26452	12-10"	146	0	
MINERAL RIGHTS	OWNER Guy R. Brown	9 5/8			
ADDRESS Rt. 3,	Salem, WV 26426	8 1/4 /\$/\$ <b>/</b> \$	1006	304	
OIL AND GAS INS	SPECTOR FOR THIS WORK Stephen	6/5/8	1717	1717	
Casey . P	Rt. 2, Box 232-D DDRESS Jane Lew, WV 26378	\$/1/2	2221	2221	
PERMIT ISSUED		4 1/2			
DRILLING COMMEN	CED June 17, 1916	3			
DRILLING COMPLE	TFD August 26, 1916	2	2539	2539	
IF APPLICABLE:	PLUGGING OF DRY HOLE ON		2/15		
CONTINUOUS PROC	RESSION FROM DRILLING OR REAL PERMISSION OBTAINED	Liners useđ			
ON					
GENT OGT CAT. TAR	ET FORMATION Fifty Foot & F	ìfth	Dept	th seecon	ns feet
	completed well 2530 feet			Tools	land Gas
=	ata depth: Fresh none feet;	Salt	feet	AUG 20	·200
	depths: 170-175	Is coal	feet being pin	td in the	area? no
		-		onmental P	ent of
OPEN FLOW DATA		Pay	, sono don	-h orgo	orection foot
-					Bhl/d
	tial open flow n/aMcf/d		al open f.		Bb1/d
Fina	al open flow <u>2138</u> <u>Mcf/d</u> Time of open flow between ini:		-		
	-				
	k pressure 440 psig(surfa				ra anne tu
	cable due to multiple completion		none de-	<b>h</b>	na faat
-	ducing formation Fifty Foot & F				
<b>.</b>		011: 101	uar open	TTOM.	Bbl/d
	tial open flow n/a Mcf/d				
	rial open flow <u>n/a</u> Mcf/d al open flow <u>213</u> Mcf/d Time of open flow between ini	Oil: Fin	al open fl	low	Bbl/d

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANCE, EIC.

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August 8, 1922 - 60 quarts in Fifth

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ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indicat: and salt water, co	ion of all fresh
Pittsburgh Coal Little Dunkard Big Dunkard First Salt Second Salt Injun Squaw Gantz Fifty Foot	170 540 625 1002 1170 1693 1810 1980 2172 2320	175 572 670 1160 1365 1805 1825 2025 2025 2220 2340	r	
Gordon Fifth Total Depth	2479	2514 2539		
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		,		_
				Office RECEIVED AUG 20 2021 Departme
			- ha	AUG 20 20 Gas
	(Attach sep	arate shèets	as necessary)	HUG 20 2021 Department of Pental Protection
$\Delta \chi^{(1)}$	CNG 1	<u>Transmission C</u> Operator	orp.	-ction
,		-	ager of Production	
	Date:	April 6, 1988	l Lively	
Note: Regulation 2.02(i) pro "The term 'log' or	'well log'	shall mean a	systematic	09/17/20
detailed geological re unul, encountered in t	cord of all he drilling	formations, of a well."	including	00/11/20

WELL LOG

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# 4704102362W

**WW-2A** (Rev. 6-14)

Date:	8/2/21		•
Operator's	Well Number	8411	
oporator	State	County	Permit

3.) API Well No.:	47-	041	- <u>02362</u>
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#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

1).

2.)

<b>/</b> \	Surface Owr	ner(s) to be served:	5)	) (a) Coal Ope	rator		
4)	(a) Name	Edward Garett		Name			
	Address	2151 Rush Run Roa	d	Address			
	Address	Weston. WV 26378					
		Bruce Garett		(b) Coal Ov	wner(s) wi	ith Declaration	
	(b) Name	1326 Freemans Cre	ek Road	Name	Wester	n Pocahontas P	roperties LP
	Address	1326 Freemans Cre	er nodu	Address	5260 In	win Rd.	
		Camden. WV 26338	)		Hunting	aton. WV 25705	
				Name			
	(c) Name			Address			
	Address			7100.000			
6)	Increator			(c) Coal Le	essee with	Declaration	
0)	Inspector Address			Name			
	Address			Address			
	Talanhano						
	Telephone		SONS NAM	ED ABOVE T	AKE NOT	ICE THAT:	
	الجوارية والمعارية	TO THE PER the lease or leases or othe	r continuina c	ontract or contr	acts by wh	ich I hold the right t	to extract oil and gas
	nciuded is t						invisio (200 0000 2)
<u>_0</u> x	<u>K</u> Included is t	the information required by	y Chapter 22,	Article 6, Sectio	on 8(d) of th	he Code of West VI	irginia (see paye 2)
	_ Included is t	the information required by that as required under C	hapter 22-6 c	of the West Virg	<u>ginia Code</u>	I have served cop	les of this house and
ar	polication, a loc	cation plat, and accompar	iying documer	its pages i and	ough oi	n the above hamed	partico by:
<u>с</u> , р		Personal Service (/	Alluavit attaci				
	X	Certified Mail (Post	marked posta	il receipt attache	ea)		
	_	Publication (Notice ead and understand Chap	of Publication	n attached)	I aaree to	the terms and co	onditions of any permit
	I have re	ead and understand Chap	oter 22-6 and	35 CSR 4, and	i agree te		
is	sued under thi	is application. under penalty of law that	L have nerse	nally examined	l and am fa	amiliar with the info	ormation submitted on
							diately responsible for
th	his application	formation, I believe that th	e information	is true, accurate	e and com	plete.	thill of fine one
0		formation, I believe that th vare that there are signific	ant penalties	for submitting fa	alse inform	ation, including the	possibility of the and
in	nprisonment.		·	-	_	inter and Stor	Par Para
	iphoon in one	V	Vell Operator	<u>Eastern Gas</u>	s Transm	ission and Store	TANK /MC
	-	AAAAAAA	Bv:	John Love			<del>7 { } / / /</del>
	A STATE	OFFICIAL SEAL NOTARY PUBLIC	Its:	Director of S	Storage	J	<del> </del>
		TARA L KOLITBON-GARRETT	Address:	925 White C	Jaks Bivo	<u>.</u> /	
		5 Regan CZ. Marganician, WY 2000 By Commission Explore March 05, 2022		Bridgeport.	<u>VVV 2033</u>		
	6		Telephone:	681-842-33	11		V
			Email:	John.love@		, EGTS	
S	Subscribed and	d sworn before me this	<u></u> day of	VALLE IN	1-	,	
		. Kubo	-1- KARAL	¥ ·		Notary Public	
	104	$\frac{NN}{N}$ $\frac{1}{N}$ $\frac{1}{N}$ $\frac{1}{N}$		31/27			
	Vy Commissio	ι.					
C	il and Gas Priva	cy 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 sequre 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

# 4704102362w

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חחקח		otal Postage and Fees		
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	Li C	U.S. Postal Service <sup>TM</sup> CERTIFIED MAIL <sup>®</sup> REC Domestic Mail Only	See Reverse for Instructions	
	55 558	For delivery information, visit our website	e at www.usps.com°. USE A	Fice of Oil and Gas
	0000 523	Services & Fees (check box, add fee as appropriate)     Return Receipt (hardcopy)     S     Return Receipt (electronic)     Certified Mail Restricted Delivery	Postmark Enviror Here	UG 20 2021 Department of mental Protection
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		Nester, W/ 263 PS Form 3800, April 2015 PSN 7580-02-000-9047	78 See Reverse for Instruction	IS

09/17/2021

#### SURFACE OWNER WAIVER

County

Lewis

Operator Operator well number

EGTS	
8411	 

4704102362  $\checkmark$ 

### 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

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. d I have no objection to

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

FOR EXECUTION BY A NATURAL PERSO	N	FOR	EXECUTION BY A CORPORATION, ETC.
	Date	Company Name	Environmental Protection
Signature		By Its	Date
		-	

Print Name

Signature

#### COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Lewis Operator Eastern Gas Transmission and Storage, Inc.

Operator's Well Number 8411

8411

#### 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 57<sup>th</sup> 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

Signature

FOR EXECUTION BY A CORPORATION, ETC.

 Company

 Date
 Name

 ture
 By

 Its
 Date

Signature

Date



#### WW-2A1 (Rev. 1/11)

#### 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
W.T Highland et al	Reserve Gas Company	1/8	63/333
	See attached merger exhibit		

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

The permit applicant for the proposed well work add ressed in this application he reby a cknowledges 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 ac quired from the appr opriate aut hority before the affected activity is initiated.

 John Love

 Well Operator:
 Eastern Gas Transmission and Storage, Inc.

 By:Its:
 Director of Storage

AUG 2 0 2021

WV Department of Environmental Protection £A

# 4704102362 v

#### WW-2A1 - Exhibit A

- Reserve Gas Company merged with Hope Natural Gas Company on 12-30-1939
- 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.

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#### AUG 2 0 2021

WV Department of Environmental Protection

09/17/2021

VW-9	API Number $47 - 041 = 02362 = 362 \text{ W}$
5/16)	Operator's Well No. 8411
DEPARTMENT OF ENV	F WEST VIRGINIA VIRONMENTAL PROTECTION OF OIL AND GAS POSAL & RECLAMATION PLAN
Operator Name_Eastern Gas Transmission and Storage, Inc.	OP Code <u>307048</u>
Watershed (HUC 10) Hogcamp Run	Quadrangle Big Isaac
Do you anticipate using more than 5,000 bbls of water to com Will a pit be used? Yes No	nplete the proposed well work? Yes No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	ride a completed form WW-9-GPP) SJ212021
Land Application (if selected prov	
Underground Injection (UIC Per	mit Number)
Reuse (at API Number	VW 9 for disposal location)
Off Site Disposal (Supply form W	
will be succeed a life describe. Yes, Oper	n top and closed top tanks will be utilized for storing all well fluids
Will closed loop system be used? It so, describe.	
Drilling medium anticipated for this well (vertical and north	ontal)? Air, freshwater, oil based, etc. <u>NA</u>
	NA
Additives to be used in driming the time	
Drill cuttings disposal method? Leave in pit, landfill, remov	ved offsite, etcNA
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust) <u>NA</u>
-Landfill or offsite name/permit number? <u>NA</u>	
Permittee shall provide written notice to the Office of Oil ar West Virginia solid waste facility. The notice shall be provide where it was properly disposed.	nd Gas of any load of drill cuttings or associated waste rejected at an ided within 24 hours of rejection and the permittee shall also disclose
West Virginia solid waste facility. The notice shall be prove where it was properly disposed.	ided within 24 hours of rejection and the permittee shall also disclos

at the on April 1, 2016, by the Office of Oil and Gas of the West Virgi 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.

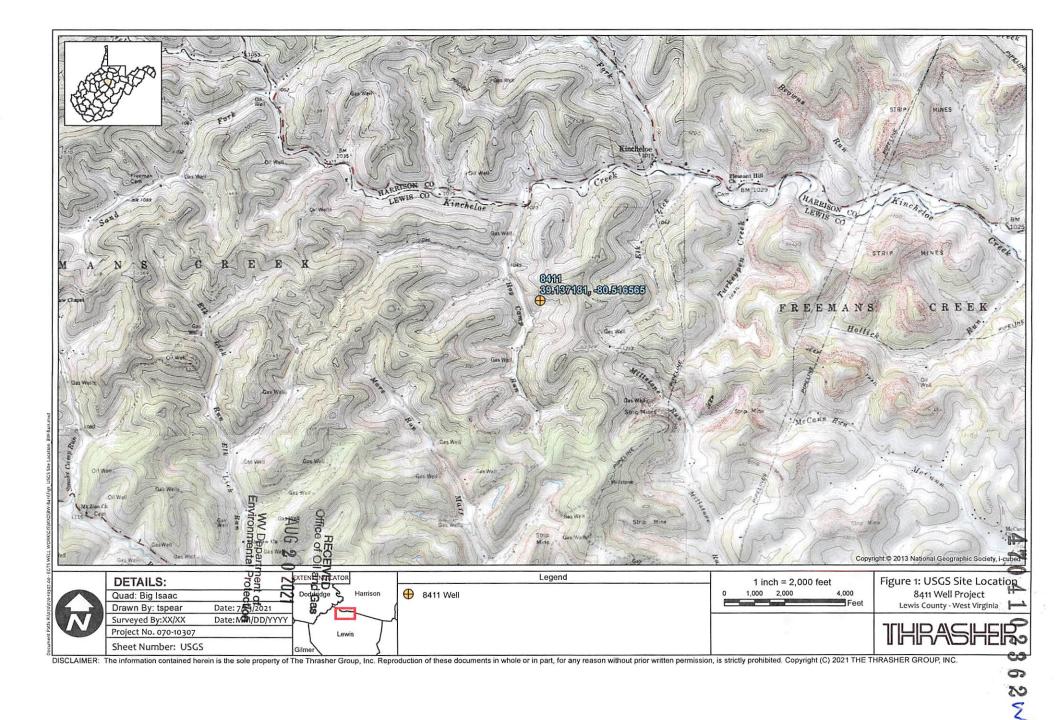
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals in **Attachments** the information is true, accurate, and complete I am aware that there are significant penalties for AUG 2 0 2021

submitting false information, including the possibility of incompany of the	
Company Official Signature	WV Department of Environmental Protection
Company Official (Typed Name) John Love	
Company Official Title Director of Storage	
Subscribed and sworn before me this 3rd day of Aucust	<u>, 20 2 )</u>
Taya Krubon-Ganett	Notary Public
My commission expires March 6, 2022	Community of the Arm of 2002

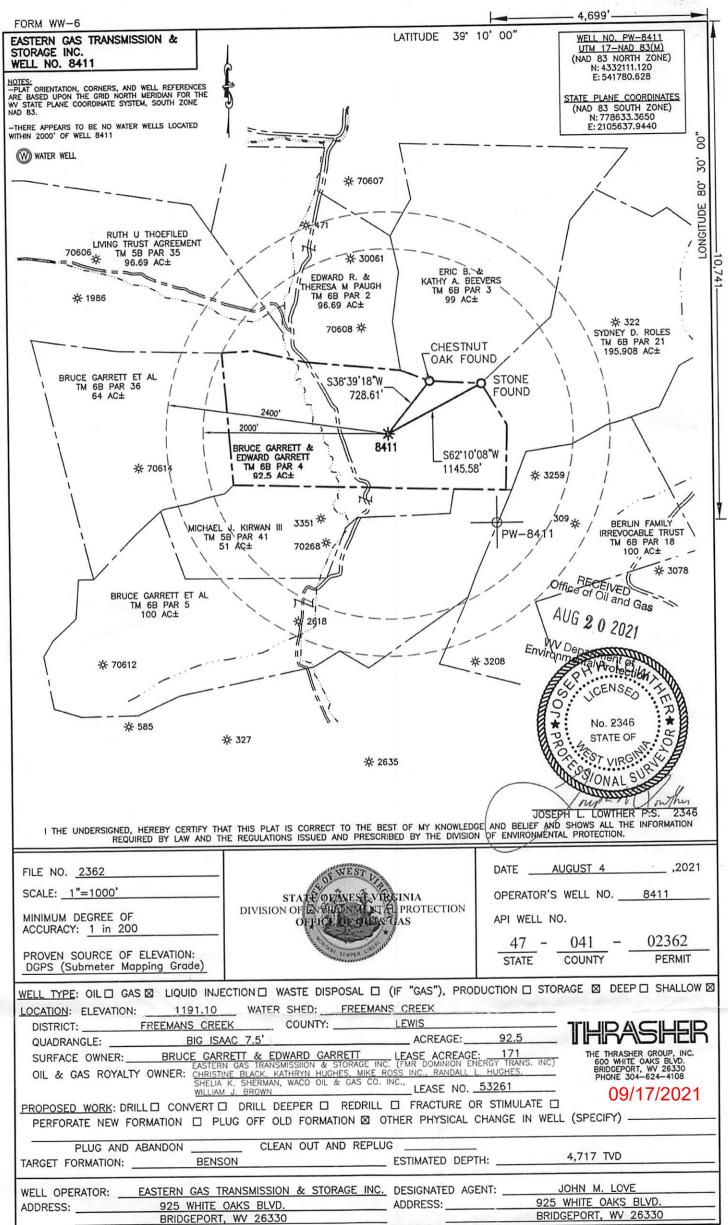
V ( .

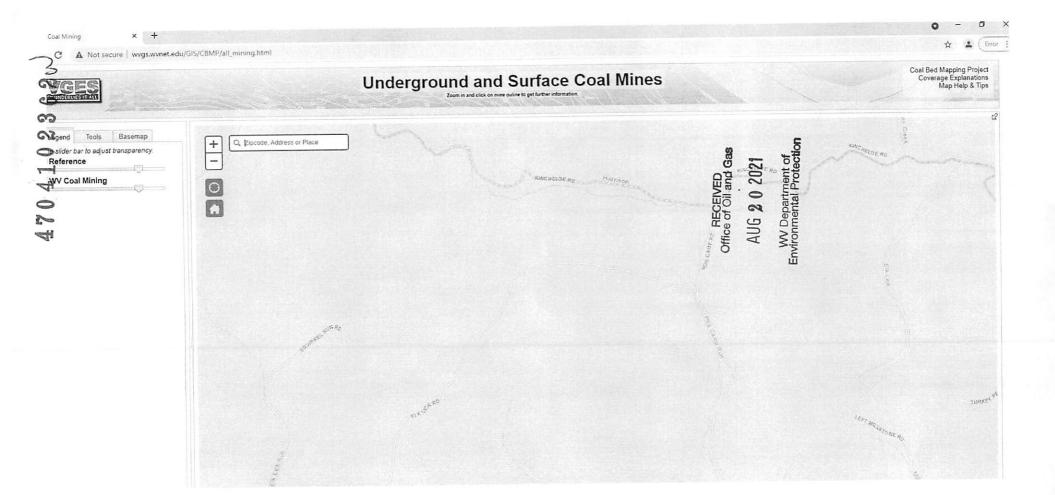
# $\begin{array}{c} 4704102362 \\ \hline \\ \text{Operator's Well No. 8411} \end{array}$

oposed Revegetation Treatment: Acres Distu	rbed		H
Lime pH Test Tons/acre or	to correct to pH $\underline{e}$	5.5	
Fertilizer type 10-20-20 or equivale	ent 🗳		
Fertilizer amount 500	lbs/	acre	
Mulch_2	Tons/ac	re	
	Seed	Mixtures	
Temporary		Perm	anent
Seed Type lbs/acre		Seed Type	lbs/acre
Timothy - 4		Timothy - 4	
Orchard Grass - 12		Orchard Grass - 12	
White Clover - 3		White Clover - 3	
provided). If water from the pit will be land a (L, W), and area in acres, of the land applicati	ion area.	ition (unless engineered plans incl ter volume, include dimensions (l	luding this info have been L, W, D) of the pit, and dime
Attach: Maps(s) of road, location, pit and proposed ar provided). If water from the pit will be land a (L, W), and area in acres, of the land applicati Photocopied section of involved 7.5' topograp	pplied, provide wa		luding this info have been L, W, D) of the pit, and dime
provided). If water from the pit will be land ap (L, W), and area in acres, of the land applicati Photocopied section of involved 7.5' topograp	ion area.		luding this info have been L, W, D) of the pit, and dime
provided). If water from the pit will be land application (L, W), and area in acres, of the land application of involved 7.5' topograp	pplied, provide wa		luding this info have been L, W, D) of the pit, and dime
provided). If water from the pit will be land application (L, W), and area in acres, of the land application of involved 7.5' topographic plan Approved by:	pplied, provide wa		luding this info have been L, W, D) of the pit, and dime
provided). If water from the pit will be land application (L, W), and area in acres, of the land application of involved 7.5' topographic plan Approved by:	pplied, provide wa		luding this info have been L, W, D) of the pit, and dime
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provided). If water from the pit will be land application (L, W), and area in acres, of the land application of involved 7.5' topographic plan Approved by:	pplied, provide wa		



## 4704102362W





WV DEP Office of Oil and Gas 601 57<sup>th</sup> 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 8411. This well is currently a production w/ storage observation well. The purpose of this rework is to rework the well for storage observation only of the Gantz Formation. Water source search was completed out to 2000' from the wellbore. No water sources were located within that distance of the well.

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

RECEIVED Office of Oil and Gas

Sincerely,

AUG 2 0 2021

WV Department of Environmental Protection

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



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

#### Re-Work Vertical Well Work Permit (API: 47-041-02362)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov> Thu, Sep 16, 2021 at 11:17 AM To: alexander.worley@bhegts.com, john.love@bhegts.com, "Ward, Samuel D" <samuel.d.ward@wv.gov>, John Breen <jbreen@assessor.state.wv.us>

I have attached a copy of the newly issued well permit number, "8411", API: (47-041-02362). 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

47-041-02362 - Copy.pdf 3275K

IR-26 Blank.pdf 152K