

#### 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 PLUGGING PERMIT Vertical Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700 PITTSBURGH, PA 15222

Re: Permit approval for SHREVE-WATSON UNIT 1V

47-103-02537-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: Farm Name:

SHREVE-WATSON UNIT 1V WATSON, ERNEST JACK & 🕍

U.S. WELL NUMBER: 47-103-02537-00-00

Vertical Plugging

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date March 2471	03	$0_{0}2_{1}5$	3	7 1	٦
0 \ 0					

2)Operator's

Well No. 516119 Shreve Watson Unit #1V
3) API Well No. 47-103 - 02537

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	d injection/ Waste disposal/
	(If "Gas, Production or Un	derground storage) Deep/ ShallowX
5)	Location: Elevation 1385'	Watershed Lower West Virginia Fork Fish Creek
	District Clay	County Wetzel Quadrangle Littleton 7.5'
6)	Well Operator EQT Production Company	7) Designated Agent Joseph C. Mallow
	Address 400 Woodcliff Drive	Address 115 Professional Place
	Canonsburg PA 15317	Bridgeport WV 26330
8)	Oil and Gas Inspector to be notified	
	Name Bryan Harris	Name HydroCarbon Well Service
	Address PO Box 157	Address PO Box 995
	Volga, WV 26238	Buckhannon WV 26201
		MAR 3 0 2021  WV Department of Environmental Protection
work	can commence.	il and gas inspector 24 hours before permitted
Work	order approved by inspector Bryan	Harris Date 3/29/21
		00/40/0004

#### PLUGGING PROGNOSIS

516119 L-005706 Ernest Watson #1V API# 47-103-002537 District, Littleton Wetzel County, WV

BY: T Mizgorski DATE: 03/22/2021

#### **CCURRENT STATUS:**

TD @ 7,723' Elevation @ 1,391'

16" PE casing @ 40' (Sand) 
11-3/4" 42# H-40 casing @ 600' (CTS 426 Cu. Ft.) Estimated cement top - Surface 
8 5/8" 32# J-55 casing @ 2715' (CTS with 792 Cu. Ft) Estimated cement top - Surface 
4  $\frac{1}{2}$ " 13.5# P-110 casing @ 7723' (Cemented with 629 Cu. Ft) Estimated cement top – 5372' (from CBL) CIBP @7610

Perforations 72 holes @ 7,568' and 7,586' 14,268 bbl slickwater pumped in 1 stage 403,150 lbs. 100 mesh, 242,235 lbs. 40/70

Fresh Water @ 140'
Elevation @ 1,391'
Saltwater @ 2166'
Gas Show @ None Reported
Oil shows @ None reported
Coal @ 880'



- 1. Notify inspector, **Bryan Harris**, (304) 553-6087, **Bryan.O.Harris@wv.gov**, 24 hours prior to commencing operations.
- 2. Check annulus of all casing strings for any pressure (838# on 4.5 / 8 5/8" annulus), (350# on tubing and casing), gas leaking (No), or bubbling water in cellar (No), etc. before starting plugging operations, if any gas is detected on any annuli, notify EQT supervisor before proceeding.
- 3. No mention of tubing in the well. Tubing tree and B-section pressures are equalized. If tubing is in well pull tubing.
- 4. TIH and check TD @ or below 7610'.
- 5. TIH with gauge ring to 7565', set a 4 ½" CIBP @ 7548' not it collar.
- 6. Fill hole with fresh water and run renegade segmented bond log from CIBP at 7548' to surface.
- 7. TIH with tubing to CIBP fill hole with 6% gel from 7548' to 2715'
- 8. Set a 548' C1A cement plug from 7548' to 7000'. TOOH 300' with tubing. Reverse circulate full hole volume. TOOH 300' with tubing. Let cement cure for 8 hrs.
- 9. Free point 4 ½" casing, cut casing @ free point 5300' using a jet cutter, Estimated Freepoint @5372' TOOH 4 ½" casing.
- 10. Set a 200' C1A cement plug 100' in/out of casing cut. 5400' to 5200' Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs. Do not perforate casing if cemented over any shows. Set plug inside of 4 ½" casing. TOOH 300' with tubing. Reverse

- circulate full hole volume. TOOH 300' with tubing. Let cement cure for 8hrs. and tag top of cement. If cement top is at 5200' or close proceed on to step 11.
- 11. TIH with tubing and set 100' C1A cement plug @4,000' to 3,900' TOOH 300' with tubing. Reverse circulate full hole volume. TOOH 500' with tubing. Let cement cure 8 hrs. (safety plug)
- 12. Check TD. If top of cement is at 3900' or close. Pump 6% GEL from 3900' to surface. TOOH to 2815' set a 300' C1A cement plug 2815' to 2515'. TOOH 300' with tubing. Reverse circulate full hole volume. TOOH with tubing. Let cement cure 8 hrs. (8 5/8" casing seat).
- 13. Check TD. If top of cement is at 2515' or close. TOOH with tubing.
- 14. TIH with wireline to 2515' If successful TIH with CIBP set @ 2500' TOOH with wireline
- 15. TIH with tubing to 1395' set a 100' C1A cement plug 1395' to 1295'. TOOH with tubing. Let cement cure 8 hrs. (Elevation @ 1391').
- 16. TIH with tubing. Tag Cement. If at 1295' or close. TOOH with tubing to 930' Set a 430' C1A cement plug 930' to 500'. TOOH and let cement cure 8hrs. (Coal @ 880' and 11-3/4" casing seat)
- 17. TIH with tubing to check TD. If top of cement is at 500' or close TOOH with tubing to 200' set a 200' C1A cement plug 200' to surface. (Fresh Water @140' and Surface Plug)
- 18. Erect monument with API#, date plugged, company name.
- 19. Reclaim location and road to WV-DEP specifications.

Office of Oil and Gas

MAR 3 0 2021

WV Department of
Environmental Protection

WR-35 Rev (9-11)

## State of West Virginia Department of Environmental Protection Office of Oil and Gas Well Operator's Report of Well Work

DATE:	02/28/13	
API #:	47-103-02537	

Farm name: Watson, Ernest Jack & Nancy	Operator Well	No.: Shreve-Wa	atson Unit 1V (Se	e note on Page 2)
OCATION: Elevation: 1,391'	Quadrangle: _	138 - Littleton 7	.5'	
District: 3 - Clay  Latitude: 2,700' Feet South of 39 Deg.  Longitude 13,740' Feet West of 80 Deg.	County: 103 - 42' Min. 32' Min.	30.0 Sec		-
Company: Grenadier Energy Partners, LLC	Casing &	Used in	Left in well	Cement fill
707 Virginia Street East 15th Floor Address: Charleston, WV 25301	Tubing	drilling	Lett iii weii	up Cu. Ft.
Agent: Dianna Stamper	16"	40'	40'	Sanded In
Inspector: Dave Scranage	11-3/4"	600'	600'	426 cu.ft. (CTS)
Date Permit Issued: 04/12/2011	8-5/8"	2715'	2715'	792 cu.ft (CTS)
Date Well Work Commenced: 04/15/2011	4-1/2"	7723'	7723'	629 cu. ft.
Date Well Work Completed: 04/21/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft): 7,723'				
Total Measured Depth (ft): 7,723'				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) N				
OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)  Producing formation Marcellus Shale				

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

2/28/13 Date

Were core samples taken? Y	Yes X No	Were	cuttings caught during dr	illing? Yes_X_No
Were Electrical, Mechanical of	or Geophysical logs re	corded on this well?	If yes, please list Yes: Ceme	ent Bond Log, Compact Micro Imager,
Compensated neutron photo den	nsity gamma ray, dual late	erlog gamma ray density	caliper, compact monopole co	ross dipole semblance
FRACTURING OR STIMU	ULATING, PHYSIC AL RECORD OF T	AL CHANGE, ETC. THE TOPS AND B	. 2). THE WELL LOG V OTTOMS OF ALL FO	REFORATED INTERVALS, WHICH IS A SYSTEMATIC DRMATIONS, INCLUDING
Perforated Intervals, Fracturin				
Perforations: Total Perforate		·		
Fluid: 14,268 bbl Slickwater	······			
Sand: 403,150 lbs 100 mes	sh sand, 242,235 lbs	40/70 sand		
Dive Deal Deal Includies D	No. Tours and Double	\		
Plug Back Details Including P	ring Type and Depth(s	See page 4.		
Formations Encountered: Surface:		Top Depth	1	Bottom Depth
See page 3.				
				MAR 3 0 200
				NO OF ON VED
				MAR 3 O ZOZI
Note: This revised WF	-			Environ Depart (02)
		*		Profession of
The well was originally				
on the plugback of the			submitted for recla	ssification of the well
from a deep well to a sl	hallow well (see	page 4).		

Shreve-Watson Unit 1V

Formation/Lithology	Top Depth	Bottom Depth
N/A	0	2704
Silt & Shale	2704	3199
Gordon Stray Ss	3199	3204
Silt & Shale	3204	3232
Gordon Ss	3232	3284
Silt & Shale	3484	3326
Fourth Gordon ss	3326	3333
Silt & Shale	3333	7124
Sonya Sh	7124	7304
Genesee sh	7304	7389
Geneseo Sh	7389	7412
Tully Lm	7412	7416
Upper Hamilton Sh	7416	7444
Middle Hamilton Sh	7444	7492
Lower Hamilton Sh	7492	7540
Marcellus Sh	7540	7590
Onondaga Lm	7590	7622
Huntersville Chert	7622	7723*

<sup>\*</sup> This depth is the TD of the well. The bottom of the formation was not reached.



WR-35 Rev (5-01) DATE: 4/26/10 API#: 47-103-02537

#### State of West Virginia Department of Environmental Protection Office of Oil and Gas

The plat in paint

	Operator's Re	port of Well Work	. Wall No la d	Watsan IV
Farm Name: Watson, Ernest Jack & Nancy		Operator	r Well No. : <u>Jack</u>	watson i V
LOCATION: Elevation: 1391		Quadrangle: 438	- Littleton	
District: 3 - Clay		County: <u>103</u> -	Wetzel	
Latitude: 2700' Feet West of 3	9 Deg. 42	Min. 30 Sec.		
Longitude 13,740 Feet South of 8	0 Deg. 32	Min. 30 Sec.		
Company: Grenadier Energy Partners, LLC				
	Casing & Tubing	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft
Address: CT Corporation 707 Virginia Street East 15 <sup>th</sup> Floor Charleston, WV 25301	16"	40'	40'	Sanded In
Agent: Sharon Barth	11-3/4"	600'	600.	CTS
Inspector: David Scranage	8-5/8"	2715	2715	CTS
Date Permit Issued: 11/17/2009	4-1/2"	7723`	7723`	493 sks Class A
Date Well Work Commenced: 12/14/2009				
Date Well Work Completed: 02/02/2010				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 7723'				
Fresh Water Depth (feet): N/A				
Salt Water Depth (feet): N/A				
Is coal being mined in area (N/Y)? N		ļ		
Coal Depths (feet): N/A			Om A	)En
OPEN FLOW DATA			MAR :	RECEIVED Oil and Gas 0 2021
Producing formation N/A – Well Not Completed P	ay zone depth	ı (ft)	- M	0 2000
Gas: Initial open flowMCF/d Oil: Initial open Final open flowMCF/d Final open	flow	Bbl/d	~ Environm Depart	-c/
Final open flowMCF/d Final open	flow	Bbl/d	"nontal	Prof Of
Time of open flow between initial and final tests		Hours	Environmental	'Utection
Static rock Pressurepsig (surface pressure) a	ifter	Hours		•
Second Producing formationP	av zone denth	ı (fi)		
Gas: Initial open flowMCF/d Oil: Initial open	flow_	Bbl/d		
Final open flowMCF/d Final open	flow	Bbl/d		
Time of open flow between initial and final tests		Hours		
Static rock Pressurepsig (surface pressure) a	ifter	Hours		
NOTE: ON BACK OF THIS FORM PUT THE FOLLOW STIMULATING, PHYSICAL CHANGE, ETC. 2). THE RECORD OF ALL FORMATIONS INCLUDING COASigned:	WELL LOG	WHICH IS A SYSTEM	AATIC DETAILE	

WR-35 Rev (5-01) DATE: 4/26/10 API#: 47-103-02537

1.) Perforated Intervals, Fracturing or Stimulation - N/A (Well Not Completed)

#### 2.) Well Log

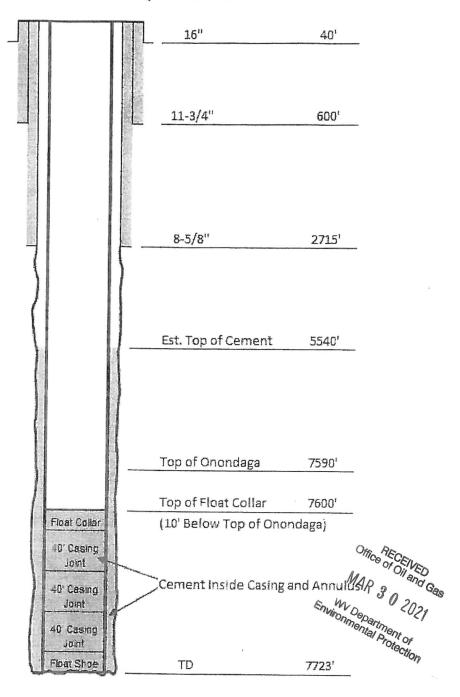
Formation/Lithology	From	To
Silt & shale	2704	3199
Gordon Stray Ss	3199	3204
Silt & shale	3204	3232
Gordon Ss	3232	3284
Silt & shale	3484	3326
Fourth Gordon ss	3326	3333
Silt & shale	3333	7124
Sonya Sh	7124	7304
Genesee sh	7304	7389
Geneseo Sh	7389	7412
Tully Lm	7412	7416
Upper Hamilton Sh	7416	7444
Middle Hamilton Sh	7444	7492
Lower Hamilton Sh	7492	7540
Marcellus Sh	7540	7590
Onondaga Lm	7590	7594
Huntersville Chert	7494	7708



WR-35 Rev (5-01)

DATE: 4/26/10 API#: 47-103-02537

### Jack Watson 1V (API# 47-103-02537) Plug Back for Conversion of Deep Well to Shallow Well



WW-4A Revised 6-07

1) Date:	March 23 , 202	21		
• -	's Well Number	er		
516119 Shreve Wa	alson Unit #1V		 	
3) API Well	No.: 47 -	103	 02537	

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

(a) Name Emest Jack Watson &	* *	a) Coal Operato: Name	r.
Address 145 Watson Lane	itality Lee Traison	Name Address	
Address 145 Walson Lane Littleton, WV 26581-77	45	_ Address	
(b) Name		— (h) Coal Ou	wner(s) with Declaration
Address		_ (b) Coal Ov Name	Western Pocahontas Properties Limited Partnership
		Address	5260 Irwin Road
-			Huntington, WV 25727-3247
(c) Name		Name	CBC Holdings LLC
Address		Address	12088 Middle Island Road
			Alma, WV 26320-7211
6) Inspector Bryan Harris		— (c) Coal Le	essee with Declaration
Address PO Box 157		Name	
Volga, WV 26238		Address	
Telephone 304-553-6087			
		<del></del>	
accompanying documents for a perm	it to plug and abandon a v t the location described or een mailed by registered	well with the Chief of the the attached Applicate or certified mail or de	l operator proposes to file or has filed this Notice and Application and he Office of Oil and Gas, West Virginia Department of Environmental tion and depicted on the attached Form WW-6. Copies of this Notice, elivered by hand to the person(s) named above (or by publication in
	Well Operator	EQT Production Com	npany Sh
	By:	Erin Spine	
Commonwealth of Pennsylvania - Notary Seal Rebacca Shrum, Notary Public	Its:	Supervisor - Subsurfa	
Beaver County	Address	400 Woodcliff Drive	
My commission expires March 9, 2024		Canonsburg PA 1531	17 Office RECEIVE
Commission number 1267706  Member, Pennsylvania Association of Notaries	Telephone	(724) 271-7380	MA DO ON SED
Subscribed and sworn before me to	his de	ay of March	MAR 3 0 2021  Environmental protects  Notary Public
	49,2024		Notary Public Protection

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 depprivacyofficr@wy,gov.



511	Domestic Mail	D MAIL® REC	<b>美国联系的</b>
ш	For delivery infor	mation, visit our website	at www.usps.com®.
- P	OF	FICIAL	USE
	Certified Mail Fee		BU
6209	\$ 3.60		RCH RIVER
_0	Extra Services & Fees (c	check box, add fee as appropriate)	180
-7	Return Receipt (electron	71	Postmark
1000	Certified Mail Restricted		COHera > LININ
	Adult Signature Require		( avm
	Adult Signature Restrict	ed Delivery \$	
3090	Postage		
	\$ /. 60 Total Postage and F		26610
m	\$ 8.05	WESTERN POCAH	IONTAS PROPERTIES
-0	Sent To		
F		LIMITED PARTNER	
7018	Street and Apt. No.,	5260 IRWIN ROAD	
Γ-	City, State, ZIP+4®	HUNTINGTON WV	25727-3247
		51611	9 WATSON
	PS Form 3800, Apl		



Office of Oil and Gas

MAR 3 0 2021

Environmental Protection

#### **SURFACE OWNER WAIVER**

47103025376

Operator's Well Number

516119 Shreve Watson Unit #1V

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

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

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

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

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

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

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

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;

Signature

- 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 deflection the permit, you should request a copy from the Chief.

VOLUNTARY STATES I hereby state that I have read the instructions and Application For A Permit To Plug And Abandon on	to surface owners and that I have provided to surface owners and WW-4B, and a start of the surface of a Notice Forms WW-4A and WW-4B, and a start of the surface of the sur
I further state that I have no objection to the objection to a permit being issued on those materials.	planned work described in these materials, and I have no
FOR EXECUTION BY A NATURAL PERSON ETC.	FOR EXECUTION BY A CORPORATION,
Date	Name

By Its

06/18/2021

Date

47-103-02537 P API No. Farm Name Ernest Watson

Well No.

516119 Shreve Watson Unit #1V

#### INSTRUCTIONS TO COAL OPERATORS **OWNERS AND LESSEE**

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

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

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

	WAIVER	
The undersigned coal operator/ has examined this proposed plugging work ord done at this location, provided, the well oper Virginia Code and the governing regulations.	ler. The undersigne	• • • • • • • • • • • • • • • • • • • •
Date:	By:	Office RECEIVE
	Its	MAR 3 0 2021  Environmental Protection

WW-9 (5/16)

API Number	47	-	103	- 02537		
Operator's W	ell i	No.	516119	Shreve	Watson	Unit #1V

### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686
Watershed (HUC 10) Lower West Virginia Fork Fish Creek Quadrangle Littleton 7.5'
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 V ANY WEY EFFLUENT MUST BE CONTAINED IN
Will a pit be used? Yes No No Any well EFFLUENT MUST BE CONTAINED IN  TANKS BEFORE DISPOSING OFF. SITE, J. W. M.
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
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 SEE ATTACHE)
Other (Explain 322 VIVIII)
Will closed loop systembe used? If so, describe:
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium?
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Cas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for 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 Title Supervisor - Subsurface Permitting  Supervisor - Subsurface Permitting
Subscribed and sworn before me this 25 day of Pennsylvania - Notary Seal Rebecca Shrum Notary Public
My commission expires March 9 2024  Notary Public Beaver County My commission expires March 9, 2024  Commission number 1267706  Member, Pennsylvania Association of Notaries
My commission expires March 9 2024  Member, Pennsylvania Association of Notaries

	tment: Acres Disturbed 1±		I
Lime 3	Tons/acre or to correct to pl	H 6.5	
Fertilizer type (10	)-20-20) or equivalent		
Fertilizer amount 1	/3 ton	lbs/acre	
Mulch_2	Tons	s/acre	
	<u>Se</u>	ed Mixtures	
Te	Temporary Perma		nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		
	pit will be land applied, provide the land application area.	cation (unless engineered plans includ water volume, include dimensions (L,	
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## EQT Production Water plan Offsite disposals

47103025376

#### **Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

#### **Waste Management - Northwestern Landfill**

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV



1" = 2000' Topo Quad: Littleton 7.5' Scale: 471030253 Wetzel Date: \_ January 11, 2021 County: 40-34-00-09 Clay District: Project No: \_\_ Topo WV 516119 47-103-02537 Shreve Watson Unit #1V Kirk Ridge Robinson Ridge Liston 47-103-02537 Hollow WV 516119 rth Zone AT:39.670469 LONG:-80.550785 Knob ELEV:1385.35' SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR:



#### ALLEGHENY SURVEYS, INC.

1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

#### **EQT Production Company**

400 Woodcliff Drive Canonsburg, PA 15317 06/18/2021



# West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-103-02537 WELL NO.: WV 516119 (Shreve Watson Unit #1V)					
FARM NAME: Ernest Watson					
RESPONSIBLE PARTY NAME: EQT Production Company					
COUNTY: Wetzel DISTRICT: Clay					
QUADRANGLE: Littleton 7.5'					
SURFACE OWNER: Ernest Jack & Nancy Lee Watson					
ROYALTY OWNER: Western Pocahontas Properties LP & CBC Holdings LLC					
UTM GPS NORTHING: 4391280					
UTM GPS EASTING: 538529 GPS ELEVATION: 422 m (1385 ft)					
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:  1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.  2. Accuracy to Datum – 3.05 meters  3. Data Collection Method:  Survey grade GPS : Post Processed Differential					
Real-Time Differential					
4. Letter size copy of the topography map showing the well for the life of the undersigned, hereby certify this data 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 Office of Oil and Gas.					
PS#2180   1/15/2021     Signature   Title   Date					



#### Site Pictures Shreve Watson Unit #1V WV 516119 47-103-02537



WV 516119 Well Head



WV 516119 Well Head



WV 516119 Well Head

RECEIVED
Office of Oil and Gas

MAR 3 0 2021

WV Department of Environmental Protection

#### BIRCH RIVER OFFICE

237 Birch River Road Birch River, WV 26610 phone: 304-649-8606 fax: 304-649-8608

#### BRIDGEPORT OFFICE

172 Thompson Drive Bridgeport, WV 26330 phone: 304-848-5035 fax: 304-848-5037

#### CHARLESTON OFFICE

301 RHL Boulevard - Suite 5 Charleston, WV 25309 phone: 304-756-2949 fax: 304-756-2948



400 Woodcliff Dr | Canonsburg, PA 15317 www.eqt.com

#### Via Email

March 29, 2021

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Jeff McLaughlin 601 57<sup>th</sup> Street, SE Charleston, WV 25304 RECEIVED
Office of Oil and Gas

MAR 3 0 2021

WV Department of Environmental Protection

RE:

Application for a Permit to Plug & Abandon 516119 Shreve Watson Unit #1V API 47-103-02537 Clay District, Wetzel County, WV

WVDEP Recipient,

Attached is EQT Production Company's application for a permit to plug and abandon for the well referenced above.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our land department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Sincerely,

Becky Shrum
Project Specialist - Permitting
bshrum@eqt.com
724-271-7314