

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, May 7, 2018 WELL WORK PLUGGING PERMIT Horizontal 6A Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 511401 47-103-02806-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: 511401 Farm Name: NANCY & JOHN FOUT, ET AI U.S. WELL NUMBER: 47-103-02806-00-00 Horizontal 6A Plugging Date Issued: 5/7/2018

Promoting a healthy environment.



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 conditions may result in enforcement action.</u>

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.

Form WW-4 (B) Permit Copy (Rev 2/01)

4)

Date:		January 15, 2018			
Operator's We					
Well No.	51	1401			
API Well No.:	47	103 - 02806			

STATE OF WEST VIRGINIA **DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS**

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

Well Type:	Oil	_ Gas	<u> </u>	Liquid Injection	Waste D	lisposa		
If Gas, Produ	ction	Х	Or Under	ground storage	Deep	Shallow	X	
	Elevation:	926	Watershe	ed: Sheep Run				
Location:	Gran	t	County:	Wetzel	Quadrangle	: Big Run		
District:								
	EQT Pro	duction Co	ompany	7) Designate	ed Agent: Ja	ison Ranson		
Well Operator 120 Professional Place		Address:	Address: 120 Professional Place					
Address:	Bridgepo	rt, WV 263	330					
8)				9) Plugging (Contractor:			
Oil & Gas Derek Haught Name: PO Box 85			Name:	Name: HydroCarbon Well Service				
Address: Sn	hithville WV 2	6178			VV 26201			
	If Gas, Produ Location: District: Well Operato Address: Oil & Gas De Name: PC	If Gas, Production Elevation: Location:Gran District: Well Operator120 Profe Address:Bridgepo Oil & Gas Name:PO Box 85	If Gas, Production X Elevation: 926 Location: Grant District: Well Operator Address: Bridgeport, WV 263 Oil & Gas Derek Haught Name: PO Box 85	If Gas, Production X Or Under Elevation: 926 Watershe Location: Grant County: District: Well Operator Address: EQT Production Company 120 Professional Place Bridgeport, WV 26330 Oil & Gas Derek Haught Name: PO Box 85	If Gas, Production X Or Underground storage Elevation: 926 Watershed: Sheep Run Location: Grant County: Wetzel District: EQT Production Company 7) Designate Well Operator 120 Professional Place Address: Bridgeport, WV 26330 9) Plugging Oil & Gas Derek Haught Name: Name: PO Box 85 Address:	If Gas, Production X Or Underground storage Deep Elevation: 926 Watershed: Sheep Run Quadrangle Location: Grant County: Wetzel Quadrangle District: Image: County: Wetzel Quadrangle Well Operator Image: County: 7) Designated Agent: Ja Address: Image: Bridgeport, WV 26330 7) Designated Agent: Ja Oil & Gas Derek Haught 9) Plugging Contractor: Name: HydroCarbon V Name: PO Box 85 PO BOX 995 Address: PO BOX 995	If Gas, Production X Or Underground storage Deep Shallow Elevation: 926 Watershed: Sheep Run Sheep Run Location: Grant County: Wetzel Quadrangle: Big Run District: Image: Streep Run For the streep Run Streep Run Streep Run Well Operator Grant County: Wetzel Quadrangle: Big Run Vell Operator 120 Professional Place 7) Designated Agent: Jason Ranson Address: 120 Professional Place Address: Bridgeport, WV 26330 Bridgeport, WV 26330 9) Plugging Contractor: Name: HydroCarbon Well Service Name: PO Box 85 Address: PO BOX 995 Streep Run	

Work Order: The work order for the manner of plugging this well is as follows: 10) See Attachment for details and procedures.

OFFICE USE ONLY

- -

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

Date

4-30-18

Work order approved by inspector

511401 Wetzel Co., WV HZ Marcellus well API # 47-103-02806 BY: DATE: 11/6/17

CURRENT STATUS: 26" conductor @ 42' 13 3/8" casing @ 370' Cemented to Surface 9 5/8" casing @ 2,910' Cemented to Surface 5 1/2" casing @ 10,496' Measured depth – Est TOC @ 3,010' Casing Patch: 1: 2,819' to 2,826' 2: 2,860' to 2,895' 1st Composite BP @ 7,468' 2nd Composite BP @ 7,450' Cement Plug: 6,810' to 7,229' ETOC @ 6,810'3rd Composite BP @ 5,426' Cement Plug: 5,088' to 5,426' TOC @ 4,903'

Coal @ 178', 538', 643', 1,153', 1,503', 1,526' Fresh Water @ 282' Salt Water @ 1,900' Gas Shows @ None Reported Stimulation – See below

PMH 4.70-18

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Martin .	2000 Status - 55 (5)	Cont Cana	Paramater Cal.	Atmating (a)	PTasticast	TIF CAL	(LCODAL)	Bury And	3017 444 Aug 400 444	100	25	ACCORDENCES STR	120 320 48.00
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Last reported 5 1/2" pressure is 1350 psi.

5.5" 20# P-110 Casing is set in slips with 80k in a 13 3/8" wellhead with a 13 5/8" 5M Flange.

- 1. Notify Inspector Derek Haught, 304-206-7613 about moving on well 48 hrs in advance.
- 2. Check pressure on all casings.
- 3. Bleed off pressure to tank on 5 1/2" casing and 9 5/8" casing. (Call Cactus to be on-site)
- 4. Nipple up Lubricator.
- 5. Hook pump up, load 5 1/2" casing and 9 5/8" casing with fresh water or 6% gel to kill any gas that may be present.
- 6. TIH with tubing to load the well with 6% gel.
- 7. TOOH with tubing.
- 8. Run a CBL.
- 9. N/D Lubricator.
- 10. Prepare to remove 5 1/2" casing slips from the wellhead. The slips are set in tension with 80k-lbs. Casing jacks may be needed to remove the casing and slips from the wellhead.
- 11. P/U 5 1/2" Casing and remove slips, slack back off with casing once slips are removed.
- 12. N/U on wellhead with Well Control system to prepare to shoot off casing.
- 13. Free point 5 1/2" casing, cut @ free point estimated @ 3,010', TOOH with 5 1/2" casing.
- 14. TIH with tubing to 3,010' or cut off point and set 410' CLA cement plug from 3,010' to 2,700'. TOOH with tubing and let cement cure. This plug will cover the 5.5" stub and casing patches.
- 15. Check TD of cement top, if cement top is at planned depth proceed to next step. If cement top has fallen, reset cement plug to planned depth.

- 16. TIH with tubing to 1,600', set 600' CLA cement plug from 1,600' to 1000' to cover the coal shows. TOOH with tubing and let cement cure.
- 17. TIH with tubing to 850', set 850' CLA cement plug from 850' to Surface. TOOH with tubing and let cement cure.
- 18. Check TD of cement top, if cement top is at surface, top well off and set Plugging monument to WV DEP specification.

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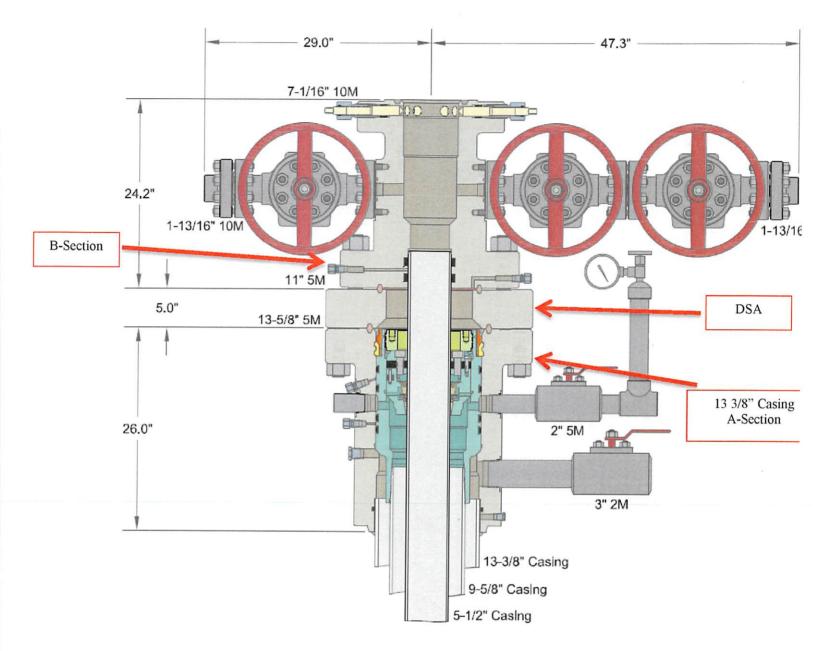
APR 2 3 2018

WV Department of Environmental Protection

Wellhead

05/11/2018

103-02806 P



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APR 2 3 2018

WV Department of Environmental Protection

05/11/2018

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

DATE: 9/3/2013 API #: 47-103-0280

PI #: 47-103-02806

6

				47	10	30	2	8 0
Farm name: Nancy & John Font, et a	Operator Well	Operator Well No.: 511401				- Minina Andrea	00	
LOCATION: Elevation: 924		Quadrangle: [Big Run					
District: Grant		County: Wetze	əl					
Latitude: 426	Feet South of 39	Deg. 35 Min.	.00 Se	c.				
Longitude 10,024	Feet West of 80	Deg. 35Min.	. <u>00</u> Se	c.				

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	26	42	42	60
Agent: Cecil Ray	13 3/8	370	370	464
Inspector: Derek Haught	9 5/8	2,910	2,910	2,503
Date Permit Issued: 8/17/2012	5 1/2	10,496	10,496	1,563
Date Well Work Commenced: 10/10/2012				
Date Well Work Completed: 1/12/2013				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary 🖌 Cable 🗌 Rig 🖌				
Total Vertical Depth (ft): 6,960'				
Total Measured Depth (ft): 10,516'				
Fresh Water Depth (ft.): 282'				
Salt Water Depth (ft.): 1,900'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 178', 538', 643', 1, 153', 1, 503', 1, 526'				
Void(s) encountered (N/Y) Depth(s) No				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

	P					
Producing formation Marcell	us	Pay zone depth (ft) 6,937				
Gas: Initial open flow 4,080	_MCF/d	Dil: Initial open flow 0	Bbl/d			
Final open flow 1.296	_MCF/d	Final open flow 0	Bbl/d			
Time of open flow betwee	en initial a	nd final tests 16	Hours			
Static rock Pressure 1.216	psig (su	rface pressure) after 280	0.5_Hours			
Second producing formation	No second	formation. Pay zone dep	th (ft)			
Gas: Initial open flow	_MCF/d (Dil: Initial open flow	Bbl/d			
Final open flow	_MCF/d	Final open flow	Bbl/d			
Time of open flow betwee	en initial a	nd final tests	Hours			

Static rock Pressure _____ psig (surface pressure) after _____ Hours

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.

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APR 2 3 2018

WV Department of Environmental Protection

9/3/2013 Date



4710302806

Were core samples taken? Yes No X

Were cuttings caught during drilling? Yes X No

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma, CBL, and Geophysical logs

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Lost pressure during stage 6. Will return for remedial work. Flowed back well for 16 hours with gas flow and all plugs still in hole. Flowed well to GB for long time (280.5 hours) to monitor well.

Plug Back Details Including Plug Type and Depth(s): See Attachment

Formations Encountered:	Top Depth /	Bottom Depth
Surface:		

Sand/shale / 0 / 178 / 178 -- Coal / 178 / 181 / 3 --

Sand/shale / 181 / 538 / 357 Coal / 538 / 540 / 2 Sand/shale / 540 / 643 / 103
Coal / 643 / 646 / 3 Sand/shale / 646 / 1,153 / 507 Coal / 1,153 / 1,155 / 2
Sand/shale / 1,155 / 1,503 / 348 Coal / 1,503 / 1,505 / 2 Sand/shale / 1,505 / 1,526 / 21
Coal / 1,526 / 1,532 / 6 Sand/shale / 1,532 / 1,773 / 241 MAXTON / 1,773 / 1,889 / 116
BIG LIME / 1,889 / 2,271 / 382 WEIR / 2,271 / 2,445 / 174 GANTZ / 2,445 / 2,596 / 151
50F / 2,596 / 2,667 / 71 30F / 2,667 / 2,714 / 47 GORDON / 2,714 / 2,801 / 87
4TH / 2,801 / 2,853 / 52 BAYARD / 2,853 / 3,386 / 533 WARREN / 3,386 / 3,532 / 146
SPEECHLEY / 3,532 / 3,900 / 368 BALLTOWN A / 3,900 / 4,354 / 454 RILEY / 4,354 / 5,011 / 657
BENSON / 5,011 / 5,367 / 356 - ALEXANDER / 5,367 / 6,379 / 1,012 - RHINESTREET / 6,379 / 6,516 / 137 -
SONYEA / 6,516 / 6,685 / 169 MIDDLESEX / 6,685 / 6,722 / 37 GENESSEE / 6,722 / 6,729 / 7
GENESEO / 6,729 / 6,828 / 99 TULLY / 6,828 / 6,853 / 25 HAMILTON / 6,853 / 6,937 / 84
MARCELLUS / 6,937 / 6,960 / 23 RECEIVED

APR 23 2018

WV Department of Environmental Protection

Stage Number	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	9/23/2013	95	7,999	8,641	5,243	4014	10,085	0
2	9/23/2013	91	8,170	8,704	4,769	3972	9,823	0
3	9/24/2013	91	8,167	8,841	5,013	3995	9,708	0
4	9/24/2013	97	8,175	8,543	4,982	4009	9,602	0
5	9/24/2013	89	8,100	8,666	5,056	3973	9,386	0
6	9/25/2013	94	8,082	9,005	3,640	3990	10,512	0

511401 47-103-02806-0000 - Stimulated Stages

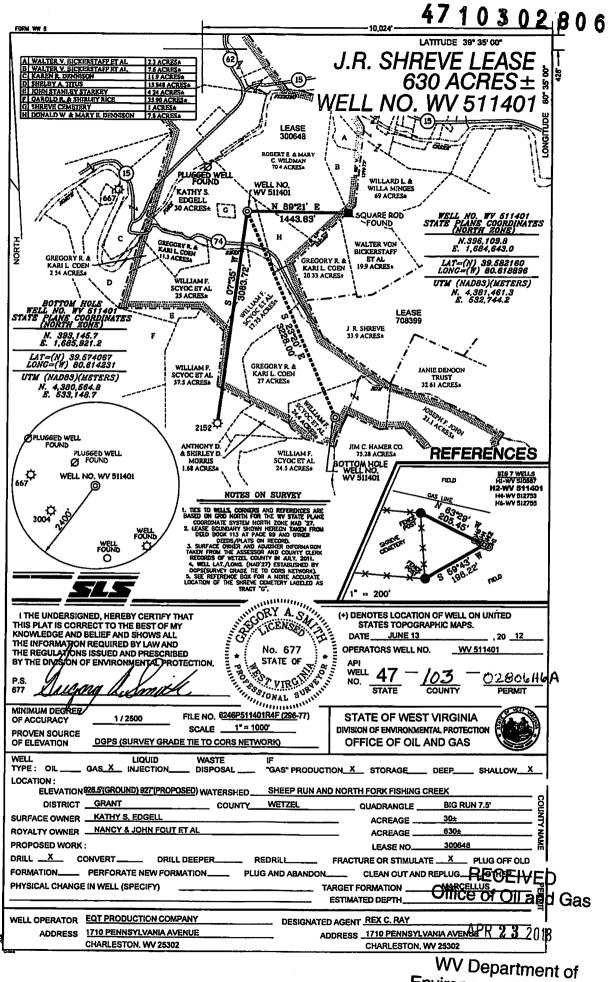
WV Department of Environmental Protection

RECEIVED Office of Oil and Gas 4710302805

	HAL -C RIH for stg 7. HES WL reports difficulty proceeding though the patch area @ 2,836'-2,876'; could not proceed past 4,429.5' (plug depth) due to obstruction causing line tension to drop below 300lb. HES WL set down
	at 2853' which slid through on its own. 2959' WL stopped – POOH to 2773', RIH to 2870' WL stopped, POOH to 2770', RIH to 2894 WL stopped, POOH 2770', RIH 2875' WL stopped, POOH to 2770' with 1600ibs line
	tension. RIH to 5046' WL stopped, POOH 4750', RIH to 5095' WL stopped. Called Bill Weser and instructed to POOH sweep the well and run a collar log. WL RIH w/ CCL and BHA did not pass 7,310'; POOH & RDMO; w/o
	I remedial work.
10/10/2013	Basic MORU SU & WOU; verified hanger not in hole. Test BOPs. Inject heated fluid.
10/11/2013	Basic SIH to 7,626' (246 jts) w/ heated fluid to address hydrate issues; circ bottoms up; POOH; No abnormalities in weight or indication of tag of casing patch @ 2,618'-2,895'.
10/12/2013	Basic SIH set magnum bridge plug @ 7,468'; circ bottoms up; POOH; No abnormalities in weight or indication of tag of casing patch @ 2,818'-2,895'.
10/13/2013	Basic SIH set 2nd magnum bridge plug @ 7,450'; POOH; FB @ 1,700 psi 24/64 choke thru gas buster to flare; 7 bbls condensate; SI:SICP 2,200 psi; RDMO to 512753.
	w/o FB ops
10/15/2013	FMC FB well to sales 900psi / 720 mcfd / 11 bbls - hr H2O / 0 bbls condensate / 15.5 hrs total FB time.
10/16/2013	FMC shut well in. Casing pressure = 1824 psi.
10/17/2013	FMC FB to GB; 140 psi / 63.5 hrs total FB time.
10/18/2013	FMC FB to GB; 44 psi / 86.5 hrs total FB time.
	FMC FB to GB; 33 psi / 111.5 hrs total FB time.
10/20/2013	FMC FB to GB; 8 psi / 135.5 hrs total FB time.
10/21/2013	FMC FB to GB- shut in well @ 04:00; 17 psi/ 157.5 hrs total FB time. RD FMC and RU ROC.
10/22/2013	ROC FB to gas buster. Shut in @ 18:00 due to gas vapors on offset well.
10/28/2013 - 11/13/2013	Cont. monitoring casing pressures.
12/12/13 - 12/31/2013	ROC FB well.
1/1/2014	SI @ 14:45; ROC monitoring pressures.
1/2/2014	ROC monitoring pressures open to gas buster.
1/3/2014	ROC monitoring pressures open to gas buster.
1/4/2014	Basic RU WOU & SU; RIH w/ 128 jts; monitor SICP.
1/5/2014	Cont to RIH with work string; MIRU HES cement equipment; monitor SICP. Jt 233 IH. End of mule shoe @ 7,229'. Circulation finished. 277 bbls pumped. Hole loaded with 75.5 bbls of treated fluid.
	Halliburton preceded pumping down 2 7/8" PH-6 tubing with 50 bbls of heated fresh water ahead of cement @ temperature of 74 degrees & circulating back to gas buster tank. Shut down. 0 Psi on 5 ½" casing.GVH/CS – 09:15 HRS – Halliburton mixed & pump 40 sxs of PlugCem – 14.2 ppg – 9.1 bbls – cement slurry – 410 ft @ 700 Psi to 1,180 Psi pump pressure. Displace 2 7/8" PH-6 tubing with 36 total bbls tubing displacement + one barrel over displacement + one barrel accounted for surface lines = total of 38 bbls pumped. Shut down pumping & drop to 75 Psi tubing pressure. Bleed off. Estimated top cement 6,810 ft. M/U - RIH w/CCL + weight bars setting tool + Magnum Long Range Composite Bridge Plug for 5 %" 20 lbs/per/ft casing. Correlate marker joint @ 5,322 – 5,332 ft. Locate 5 %" casing collars @ 5,406 – 5,446 ft. Wireline weight 1,250 lbs. Set Magnum Long
1/6/2014	Hange Composite Bridge Plug – top of plug @ 5,426 ft.; TOOH and open well to GB.
	RIH to 5404' 22' above bridge plug and circ w/ 206 bbls of fresh water. Halliburton mixed & pump 30 sxs of PlugCem – 14.2 ppg – 7.0 bbls – cement slurry – 316 ft @ 928 Psi to 1,230 Psi pump pressure - 3.7 bpm. Displace 2 7/8" PH-6 tubing with 27 total bbls tubing displacement + one barrel over displacement + one barrel accounted for surface lines = total of 29 bbls pumped. Shut down pumping & drop to 90 Psi tubing pressure. Bleed off. Cement in place @ 17:00 hrs. Estimated top cement 5,088 ft. POOH slowly & L/D 27 jts of 2 7/8" PH-6 Tubing to Jt #147 – (4,571 ft) P/U weight 39,000 #'s. (517 ft) above the top of cement slurry plug in 5 %" casing. Halliburton start circulation of 175 bbls for double surface to surface circulation with 2.5 gallons of Micro- Matrix retarder to clear any cement from tubing and the hole. Pump rate 3.5 bpm @ 1,100 to 1,200 Psi pump pressure with 500 Psi back pressure on manifold. Divert circulation returns to rig tank after 60 bbls. No cement was recovered in the returns. Rig down Halliburton. POOH & L/D 173 jts of 2 7/8" PH-6 Tubing + 2 7/8" PH-6 Energy mule shoe pup joint. Total of 174 jts. Loaded hole while POOH with 37 bbls of 9.2 ppg saltwater to
1/7/2014	displace the steel that was POOH. No snubbing operations was required POOH. O psi on 5 %" casing. O Psi on 9 5/8" surface casing.
	Basic and ROC RDMO.

WV Department of Environmental Protection RECEIVED Office of Oil and Gas APR 2 3 2018

4710302806



Environmental Protection

WW-4-A Revised 6/07

	D /		.4
1)	Date:	January	15,
2)	Operator's We	ll Number	

511401

3) API Well No.: 103 02806 47 State

County Permit

03028066

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4)	Surface Owner	(s) to be served:	5) (a) Coa	I Operator:
	(a) Name	Gregory R Coen	Name	None
	Address	4496 North Fork Rd.	Address	
		Pine Grove WV 26419		
	(b) Name	Donald Lee Dennison	(b) Coal O	wner(s) with Declaration
	Address	6617 North Fork Rd.	Name	Researve Coal Properties Company Etal
		Pine Grove WV 26419		1000 Consol Energy Dr.
			Address	Cannonsburg PA 15317
	(c) Name	Freda D Blake	Name	
	Address	HC 62 Box 48	Address	
		Pine Grove WV 26419		
6)	Inspector	Derek Haught	(c) Coal Le	essee with Declaration
	Address	PO Box 85	Name	None
		Smithville WV 26178	Address	
	Telephone	304-206-7613		

TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents:

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the RECEIVED work and describes the well its and the plugging work order; and

(2) The plat (surveyor's map) showing the well location on Form WW-6.

Office of Oil and Gas

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all. APR 23 2018

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a Well/wide the fent of of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

OFFICIAL SEAL Well Operator:	EQT Production Company 57 😒
NOTARY PUBLIC DY:	Erin Spine
REBECCA L. WANSTREET	Regional Land Supervisor
EQT PRODUCTION COMPANY Address:	2200 Energy Drive
BEIDGEPORT WY 26330	Canonsburg PA 15317
My contribution overlines April 07, 2020 Telephone:	(304) 848-0035
Subscribed and sworn before me this 18	day of April 2018
Thick & Wangtelt	Notary Public
My Commission Expires:	7-2020

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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.



WW-9 Revised 5/16

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1 .

2) Operator's Well Numbe	r

511401

2020

3) API Well No.: 47 103 - 02806

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL & GAS

FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name:	EQT PRODUCTION COMPANY	OP (CODE:	
Watershed (HUC 10):	Sheep Run	Quadrangle:	Big Run	
Do you anticipate using mo	ore than 5,000 bbls of water to comp	lete the proposed well work?	Yes No_X	
Will a pit be used? Yes_ If so, please describe antic		Formation Flu	lide	
	ed in the pit? Yes No _X	Is so, what ml.?	-20 ml	
Proposed Disposal Method	for Treated Pit Wastes:		Y WELL EFFLUENT WILL MALL	
	Land Application (if selected pr	ovide a completed form WW-9-0		
X	Underground Injection (UIC Per Reuse (at API Number Vario		<u>9 mm</u>)	
X		y form WW-9 for disposal location)	
	Others /Fred - i	,	na 54 ani mbalo presentan' destata estata	
Will closed lean system be	#			
Will closed loop system be Drilling medium anticipated	for this well? (vertical and horizontal	all? Air freehunter eil based et	-	
If oil based, what	at type? Synthetic, petroleum, etc.	al) r All, liesriwater, oli based, etc	2	
Additives to be used in drill				
	od? Leave in pit, landfill, remove off	site, etc.		
If left in pit and pla	an to solidify what medium will be used? name/permit number?			
Landin of offsite h		·····		
Permittee shall provide written	notice to the Office of the Oil and Gas of	f any load of drill cuttings or associat	ed waste rejected at ;	
West Virginia solid waste facili	ity. The notice shall be provided within 24	4 hours of rejection and the permitter	e shall also disclose	
where it was properly disposed	1.			
I certify that I understand on April 1, 2016, by the Offi	d and agree to the terms and condition ice of Oil and Gas of the West Virgin	ons of the GENERAL WATER Po ia Division of Environmental Pro	OLLUTION PERMIT issued	
on April 1, 2016, by the Office of Oil and Gas of the West Virginia Division 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. 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.				
penalties for submitting fais	e information, including the possibility	ty of fine or imprisonment.		
Company Official Sign	nature Z. h	~		
Company Official (Typ	bed Name) Erin Spine			
Company Official Title	Regional Land Supervisor			
Subscribed and sworn b	efore me this 18	day of April	,2018	
Reliercar	L Wantreet	Notan	y Public	
My Commission Expires		RO	STATE OF WEST VIRGINIA	
			PO BOX 200	

			OPERATOR'S WELL NO .:
	LE	GEND -	<u>51140</u>
Property Boundary		Diversion	
		Spring	Wet Spot
Road		○ →	~ 6 -
Planned Fence	Drain Pipe	with size in inches	Water Way
///		- 12	€→ር→
Existing Fence	Stre		Cross Drain
Open Ditch ▶▶▶		al Filter Strip	Rock අපිලිපිපි
North	Building	Water well	Drill site
N		W	\oplus
Pit with Cut Walls	Pit with Con	npacted Walls Area of	f Land Application of Pit Wast
Current	سىرىم_	- cy	
Fertilizer (10-20-20) or equival	ons/acre or hydroseed.	1/3 ton	_ lbs/acre (500 lbs minimu
Area I	SEED MIXT	JRES	Area II
Seed Type	lbs/acre	Seed Type	lbs/aci
			100/00
Red Fescue	40		15
Red Fescue Alsike Clover	<u>40</u> 5	Red Fescue Alsike Clover	<u>15</u> 5
Red Fescue	and the second second second second	Red Fescue	
Red Fescue Alsike Clover	5 15 nd proposed area for land a	Red Fescue Alsike Clover	
Red Fescue Alsike Clover Annual Rye ATTACH: Drawing(s) of road, location, pit an Photocopies section of involved 7	5 15 nd proposed area for land a	Red Fescue Alsike Clover	

05/11/2018

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Topo Quad:	Big Run 7.5'	Scale:	1" = 200 4 7 1	03028068
County:	Wetzel	Date:	November 15, 2	
District:	Grant	Project No:	40-34-00-09	
	47-103-02806 WV	′ 511401	(Big 7 H2	2) Торо
1200 1700	1000 1000 1000 1000 1000 1000 1000 100	000 Depo		1500
	-9-1-1-100 -1-100 -1-100	Four Mile N FORK	2007) 007) 007) 007) 007) 007) 007) 007)	
NorthEte	The IPIsiting Crock	5	806	
420	100 001 28 005 38 005 38 005	isto		22 C 200
1400		RD 7/2	100	NAD 27, North Zone N:396108.00 E:1684647.79
Lowman Ridge	100 100 100 100 100 100 100 100 100 100		1300 (320 1400 1400	WGS 84 LAT:39.582238 LONG:-80.618693 - 伝生氏が会到14.93
E GHATAN B G	SURVEYING AND MAPPING SERVICES PERFORM ALLEGHENY SURVEYS 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8608 FAX: (304) 649-8608		WV D	of Oil and Gas tion Company box, WV 26330 epartment of hental Protection

47103028068

40. 475

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POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: <u>EQT PRODUCTION COMPANY</u> LEASE NAME AND WELL No. <u>Big 7 H2 - WV 511401 - API No. 47-103-02806</u>

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 511401.

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APR 23 2018

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 ALUM CREEK OFFICE PO. Box 108 • 1413 Childress Rd Alum Creek, WV 25003 *phone:* 304-756-2949 *fax:* 304-756-2948 MARTINSBURG OFFICE 25 Lights Addition Drive Martinsburg, WV 25404 *phone*: 304-901-2162 *fax*: 304-901-2182

05/11/2018

ALLEGHENYSURVEYS.COM

Topo Quad:	Big Run 7.5'	Scale:	1" = 2000 47	103028066
County:	Wetzel	Date:	November 15, 2	017
District:	Grant	Project No:	40-34-00-09	<i>.</i>
Water	47-103-02806 WV	′ 511401	(Big 7 H2	2)
120 1100	No Potential Water	Sources wit	thin 1000'	1.00
33	12 100 000 1000 1000 1000 1000 1000 100	Four Mile N Fork	62 1200 1200 1200	
North FO	The lefts filings (Check 47-10) WV 5	3-02806 511401	asis and a second	and
9000	1400 CO RD 712 CO R	RD 7/2	100	NAD 27, North Zone N:396108.00 E:1684647.79
Lowman Ridge	100 100 100 100 100 100 100 100 100 100		1300 1500 1400 1500	WGS 84 LAT:39.582238 LONG:-80.618693 ELEY:914.93
E GHK TH	SURVEYING AND MAPPING SERVICES PERFORM ALLEGHENY SURVEYS 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8608 FAX: (304) 649-8608		Bridgep	Oil and Gas tion Company Box 2800 Port, WV 26330 epartment pt2018 ental Protection



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

API: 47-103-02806 WELL NO.: WV 511401 (Big 7 H2)				
FARM NAME: Nancy and John Fout, et al.				
RESPONSIBLE PARTY NAME:EQT Production Company				
COUNTY: Wetzel DISTRICT: Grant				
QUADRANGLE: Big Run 7.5'				
SURFACE OWNER: Gregory R. Coen				
ROYALTY OWNER: Shiben Estates Inc., et al.				
UTM GPS NORTHING: 4381461				
UTM GPS EASTING: 532746 GPS ELEVATION: 279 m (915 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	
Mapping Grade GPS	X	: Post Processed Differential	X
		Real-Time Differential	RECEIVED
4 4 1 1			

4. Letter size copy of the topography map showing the well well well well of Oil and Gas I 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 3 2018 prescribed by the Office of Oil and Gas.

B#<u>2180</u> Signature

WV Department of **Environmental Protection**