

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 <u>www.dep.wv.gov</u>

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)

Date:	January 15, 2018					
Operator's We						
Well No.	51	1401				
API Well No.:	47	103 - 0	2806			

STATE OF MEST VIDGINIA

			DIVISI	ON OF ENV	IRONMENTAL	PROTEC	TION		
		4 000			OF OIL AND GA				
4)		APPL	.ICATIO	IN FOR A PE	ERMIT TO PLU	G AND AI	BANDON		
٠,	Well Type: Oi	il	_ Gas _	X Li	iquid Injection	id Injection Wast		osa	
	If Gas, Production	on	Х		ound storage		р		Х
5)	Et	evation:	926	Watershed	: Sheep Run				
	Location:	Grant		County:	Wetzel	Qua	drangle:	Big Run	
6)	District:	EQT Prod	duction C	Company	7) Desig	nated Ager	nt: Jason	Rancon	
ĺ	Well Operator						Profession		
	Address:	Bridgepor	rt, WV 26	330	-		geport, WV		
8)					9) Plugg	ing Contrac	tor:		
	Oil & Gas Derel						arbon Well	Service	
	Name: POB Address: Smith	ox 85	6179		_ Addre	ss: PO BO		00004	
	Address. Silid	IVIIIE VVV Z	0170			Buckna	nnon, WV	26201	
				OFFIC	E USE ONLY				
	Notification must							vork can comn	nence.

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

DMH 4-70-18

Marie Marie		CONTRACTOR OF THE PERSON OF TH	Parkson Cal.	Atmakes (as)	PT ne Vaccou	the Cast	PHE CONTRACT	Dary And	ALL COURT	e herpe inte	S Auros Cal	e AZ LONGUES.	fan itn mei
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6	<u> </u>										35.20		1,39534

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.
- Hook pump up, load 5 ½" 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 ½" 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.

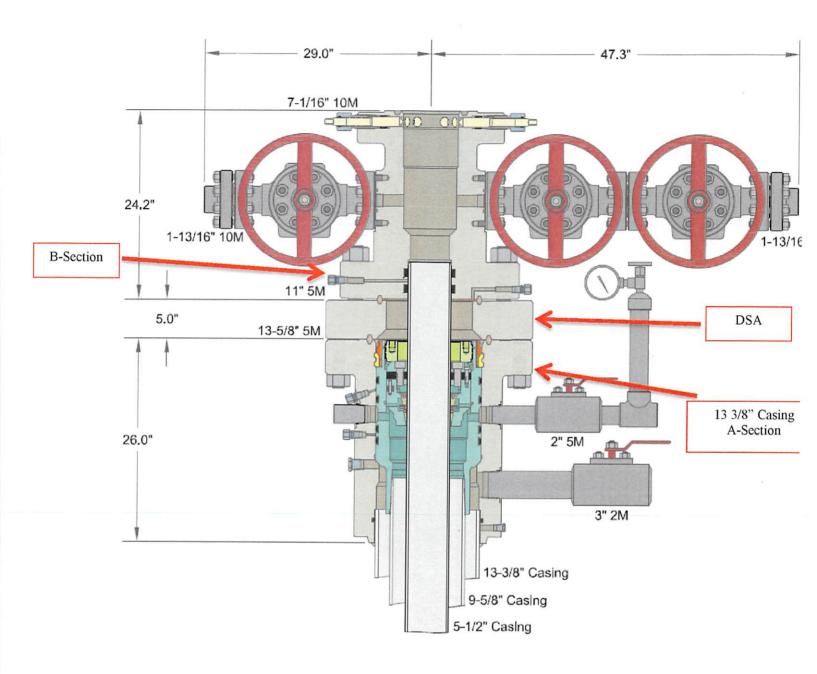
- 16. TIH with tubing to 1,600', set 600' CLA cement plug from 1,600' to 1000' to cover the coal shows. TOOH with tubing and let cement cure.
- 17. TIH with tubing to 850', set 850' CLA cement plug from 850' to Surface. TOOH with tubing and let cement cure.
- 18. Check TD of cement top, if cement top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

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WV Department of Environmental Protection

Wellhead



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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:	9/3/2013
API#:	47-103-02806

4710302806

Farm name: Nancy & John Font, et al	Operator Well No.: 511401						
LOCATION: Elevation: 924'	_ Quadrangle: _	Quadrangle: Big Run					
District: Grant	County: Wetz	el					
Latitude: 426 Feet South of 39 Deg.	35 Min).				
Longitude 10,024 Feet West of 80 Deg	. 35 Min	. <u>00</u> Sec	> .				
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 V							
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 formation	ons please inclu	de additional da	ita on separate s	heet)			
Producing formation Marcellus Pay	zone depth (ft) 6		1	,			
Gas: Initial open flow 4,080 MCF/d Oil: Initial open f		ol/d		DE0="	4		
Final open flow 1,296 MCF/d Final open flow		I/d		RECEIV			
Time of open flow between initial and final tests 16	Hours		(Office of Oil a	and Gas		
Static rock Pressure 1.216 psig (surface pressure) al	fter 280.5 Hour	S		400.00	•••		
Second producing formation No second formation. Pay zo	• • • —			APR 2:3	2018		
Gas: Initial open flow MCF/d Oil: Initial open f		ol/d		WV Departr	ment of		
Final open flow MCF/d Final open flow		l/d	En	vironmental	Protection		
Time of open flow between initial and final tests				·······································	· rotection		
Static rock Pressurepsig (surface pressure) af	fterHour	S					
I certify under penalty of law that I have personally examined all the attachments and that, based on my inquiry of those indithat the information is true, accurate, and complete.							
		9/3/2	013				
Signature			Date				

4710302806

Were core samples taken? Yes_	NoX	Were cuttings caught	during drilling?	Yes_X No
Were Electrical, Mechanical or G	eophysical logs record	ded on this well? If yes, please list	MWD Gamma, CE	BL, and Geophysical logs
				1
FRACTURING OR STIMULA DETAILED GEOLOGICAL	ATING, PHYSICAL RECORD OF THE	FOLLOWING: 1). DETAILS CHANGE, ETC. 2). THE WELL TOPS AND BOTTOMS OF ROM SURFACE TO TOTAL D	L LOG WHICH ALL FORMAT	I IS A SYSTEMATIC
Perforated Intervals, Fracturing, o	or Stimulating:			
See Attachment				
Lost pressure during stage	6. Will return for	remedial work. Flowed back	well for 16 h	ours with gas flow
and all plugs still in hole. Fl	lowed well to GB t	for long time (280.5 hours) to	o monitor well	
Plug Back Details Including Plug	Type and Depth(s): 5	See Attachment		
Formations Encountered: Surface:		Top Depth /		Bottom Depth
Sand/shale / 0 / 178 / 178 -	- Coal / 178 / 181	1/3		
Sand/shale / 181 / 538 / 357	7 Coal / 538 / 5	640 / 2 Sand/shale / 540	/ 643 / 103 <i></i>	
Coal / 643 / 646 / 3 Sand	d/shale / 646 / 1,1	53 / 507 Coal / 1,153 / 1,	155 / 2	
Sand/shale / 1,155 / 1,503 /	348 Coal / 1,5	503 / 1,505 / 2 Sand/shal	e / 1,505 / 1,5	26 / 21
Coal / 1,526 / 1,532 / 6 S	Sand/shale / 1,532	2 / 1,773 / 241 MAXTON	/ 1,773 / 1,889	9 / 116
BIG LIME / 1,889 / 2,271 / 3	82 WEIR / 2,2	71 / 2,445 / 174 GANTZ	/ 2,445 / 2,59	6 / 151
50F / 2,596 / 2,667 / 71 3	30F / 2,667 / 2,71	4 / 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 BALLTO	WN A / 3,900 / 4,354 / 454	RILEY / 4,35	4 / 5,011 / 657
BENSON / 5,011 / 5,367 / 356	- ALEXANDER /	5,367 / 6,379 / 1,012 — RHINI	ESTREET / 6,3	79 / 6,516 / 137
SONYEA / 6,516 / 6,685 / 16				
GENESEO / 6,729 / 6,828 /				
MARCELLUS / 6,937 / 6,960			RE	CEIVED
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WV Department of Environmental Protection

	511401 47-103-02806-0000 - Stimulated Stages										
Stage Number	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (Ibs)	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			

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WV Department of
Environmental Protection

4710302805

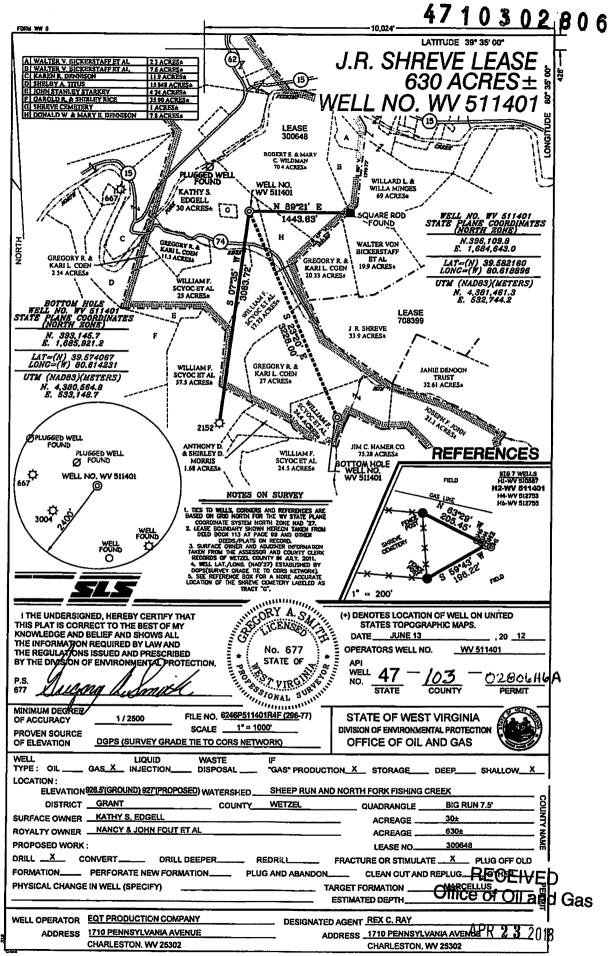
10/11/2013	Basic SIH to 7,626' (246 jts) w/ heated fluid to address hydrate issues; circ bottoms up; POOH; No abnormalities in weight or indication of tag of casing patch @ 2,618'-2,895'.
10/12/2013	Basic SIH set magnum bridge plug @ 7,468'; circ bottoms up; POOH; No abnormalities in weight or indication 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.
10/14/2013	
	FMC FB well to sales 900psi / 720 mcfd / 11 bbls - hr H2O / 0 bbls condensate / 15.5 hrs total FB time.
	FMC shut well in. Casing pressure = 1824 psi.
	FMC FB to GB; 140 psi / 63.5 hrs total FB time.
	FMC FB to GB; 44 psi / 86.5 hrs total FB time.
	FMC FB to GB; 33 psi / 111.5 hrs total FB time.
	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. Cont. monitoring casing pressures.
	ROC FB well.
	SI @ 14:45; ROC monitoring pressures.
	ROC monitoring pressures open to gas buster.
	ROC monitoring pressures open to gas buster. 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. It 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 %" 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 +
1/6/2014	setting tool + Magnum Long Range Composite Bridge Plug for 5 ½" 20 lbs/per/ft casing. Correlate marker joint @ 5,322 – 5,332 ft. Locate 5 ½" casing collars @ 5,406 – 5,446 ft. Wireline weight 1,250 lbs. Set Magnum Long Range Composite Bridge Plug – top of plug @ 5,426 ft.; TOOH and open well to GB.
1/0/2014	Trainge Composite struge Flug — top of plug @ 3,420 ft.; 100H and open well to GB.
	RIH to 5404' 22' above bridge plug and circ w/ 206 bbls of fresh water. Hallibuston mixed 8 mums 20 cus of BlueCom. 14.2 ms. 7 0 bbls.
	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
1/7/2014	R/N nipple + One joint of 2 7/8"PH-6 tubing + 2 – 2.88" OD – TTS snubbing back pressure valves + 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 displace the steel that was POOH. No snubbing operations was required POOH. O psi on 5 %" casing. 0 Psi on 9 5/8" surface casing.
1/8/2014	Basic and ROC RDMO.
	DESIGNATION.

APR 2.3 2018

WV Department of Environmental Protection

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Office of Oil and Gas

4710302806



WV Department of Environmental Protection

WW-4-A	
Revised 6/07	

1)	Date:		January	15	, 2018	0	3	0	2	8	0	6.6
2)	Operator's We 511401	ll Num	ber									
3)	API Well No.:	47	103	-	02806							
		State	County		Permit							

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS

	NOTICE AND APPLICATION 1	O PLUG AND ABAI	NDON WELL
4) Surface Owner	(s) to be served:	5) (a) Coal	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 Ow	vner(s) with Declaration
Address	6617 North Fork Rd.	Name	Researve Coal Properties Company Etal.
71441655	Pine Grove WV 26419		1000 Consol Energy Dr.
	1 1110 01000 000 20413	Address	Cannonsburg PA 15317
	(Callibriability FA 15517
(c) Name	Freda D Blake	Name	
Address	HC 62 Box 48	Address	
	Pine Grove WV 26419		
6) Inspector	Derek Haught	(c) Coal Les	ssee with Declaration
Address	PO Box 85	Name	None
, , , , , , ,	Smithville WV 26178	Address	None
Telephone	304-206-7613		3
relephone		 8	·
TO THE PERSONS	S NAMED ABOVE: You shou	ald have received this For	m and the following documents:
(2) The plat (s	ation to Plug and Abandon a Well on Fo describes the well its and the plugging w urveyor's map) showing the well location	rm WW-4B, which sets o ork order; and n on Form WW-6.	ut the parties involved in the RECEIVED Office of Oil and Gas
the instruction	ou received these documents is that you son the reverses side. However, you as	have rights regarding the re not required to take an	e application which are summarized in
Take notice th	at under Chapter 22-6 of the West Virgin	aia Cada tha undersiana	
filed this Notic of the Office o described on t Application, ar	e and Application and accompanying do	cuments for a permit to p Environmental Protection the attached Form WW- ed or certified mail or deli	olug and abandon a Well with the Chiefent of with respect to the well at the location. 6. Copies of this Notice, the vered by hand to the person(s) named
	11 December 1980 State Charles		-
REBE EQT	Well Operator: OFFICIAL SEAL OTARY PUBLIC By: E OF WEST VIRIGINIA CCA L. WANSTREET Its: PRODUCTION COMPANY PO BOX 280 DIGEPORT, WY 26330 milesion optires April 07, 2020 Telephone:	EQT Production Co Erin Spine Regional Land Sup 2200 Energy Drive Canonsburg PA 15: (304) 848-0035	ervisor
Subscribed and swo		day of Apr	Notary Public
My Commission Expir	es:	-7-2020	Notary Fublic

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.

4-7-2020

WW-9	
Revised	5/16

Page	of						
2) Operator's Well Number							
				511401			
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	O	P CODE:	
Watershed (HUC 10):	Sheep Run	Quadrangle	: Big Run	
Will a pit be used? Yes_		e the proposed well work?	Yes No_X_	_
If so, please describe anticip	Santana wasa ²⁵ sananana sasawa	Formation		
Will a synthetic liner be use		Is so, what ml.?	-20 ml	,
Proposed Disposal Method X X	Land Application (if selected provi Underground Injection (UIC Permi Reuse (at API Number Various Off Site Disposal Permit (Supply for	de a completed form WW-9 t Number	ation. See attachment)	- (1)on l 4-30 -) -)
Will closed loop system be u				_
Drilling medium anticipated	for this well? (vertical and horizontal)? type? Synthetic, petroleum, etc.		etc	- -
	d? Leave in pit, landfill, remove offsite	a etc		_
If left in pit and plan	to solidify what medium will be used? (ce	ment, Lime, sawdust)		- -
				-
Permittee shall provide written r	notice to the Office of the Oil and Gas of an	y load of drill cuttings or assoc	ciated waste rejected at a	-
West Virginia solid waste facility where it was properly disposed.	 The notice shall be provided within 24 he 	ours of rejection and the permi	ttee shall also disclose	
on April 1, 2016, by the Office provisions of the permit are exapplicable law or regulation capplication form and all attace betaining the information, I be	and agree to the terms and conditions to of Oil and Gas of the West Virginia lenforceable by law. Violations of any total lead to enforcement action. The chiments thereto and that, based on my elieve that the information is true, according to the conformation, including the possibility of the chiments.	Division of Environmental P term or condition of the gen or inquiry of those individuals turate and complete. I am a	Protection. I understand that the eral permit and/or other	_
Company Official (Type	ed Name) Erin Spine			_
Company Official Title	Regional Land Supervisor			
Subscribed and sworn be	fore me this	day of April	,, 2018	
My Commission Expires	(Wanstreet 4-7-2020		ary Public OFFICIAL NOTARY STATE OF WE REBECGA L. FO BO BRIDGEPONT My contribution are	PUBLIC 9T VIRGINIA WANSTRE ON COMPAN X 200 I, VYV 26330 dres April 07, 20

			OPERATOR'S WELL NO.: 511401
	LE	GEND	37140
Property Boundary		Diversion	
Road		Spring	Wet Spot
		O	4
Planned Fence	Drain Pipe	with size in inches	Water Way
//		— 12 ——→	€→€ →
Existing Fence	Stre	am	Cross Drain
Open Ditch	Artificia	al Filter Strip	Rock
>>>>		XXX	ං දිරිදුර
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 Waste
Curried States	-	\Rightarrow	
roposed Revegetation Treatment: A	cres Disturbed:	1± Prevegetati	on pH
Lime T	ons/acre or to correct to p	oH6.5	
Fertilizer (10-20-20) or equivale	ent	1/3 ton	lbs/acre (500 lbs minimum
Mulch 2 To	ons/acre or hydroseed.		<u>-</u>
	SEED MIXTU	JRES	
Area I			Area II
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
ATTACH;		•	
Drawing(s) of road, location, pit an Photocopies section of involved 7.		pplication.	
Plan approved by:	,		

Date: 4-30-18

Comments:

Title: On Field Reviewed?

1" = 20047 1 0 3 0 2 8 0 6 6 Topo Quad: Big Run 7.5' Scale: County: Wetzel Date: November 15, 2017 District: Grant 40-34-00-09 Project No: Topo 47-103-02806 WV 511401 (Big 7 H2) Four Mile N FORK RD MAUD RUN CO RD 60 47-103-02806 WV 511401 NAD 27, North Zone N:396108.00 CO RD 7/2 E:1684647.79 CO RD 7/2 WGS 84 LAT:39.582238 Lowman 1300 Ridge LONG:-80.618693 ELEX:914.93 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: Office of Oil and Gas ALLEGHENY SURVEYS, INC. EQT Production Company 1-800-482-8606 237 Birch River Road Bridgeport, WV 26330 WV Department of Birch River, WV 26610 PH: (304) 649-8606 **Environmental Protection** FAX: (304) 649-8608



POTENTIAL WATER SAMPLE DATA SHEET

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

POTENTIAL SAMPLE LOCATIONS

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

RECEIVED Office of Oil and Gas

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

P.O. 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





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

API: 47-103-02806	WELL NO.: WV 511401 (Bi	g 7 H2)
FARM NAME: Na	ncy and John Fout, et al.	
RESPONSIBLE PART	Y NAME: <u>EQT Production</u>	Company
COUNTY: Wetzel	DISTRIC	CT: Grant
QUADRANGLE: Bi	g Run 7.5'	
SURFACE OWNER:_	Gregory R. Coen	
ROYALTY OWNER:_	Shiben Estates Inc., et al.	
UTM GPS NORTHING	G: <u>4381461</u>	
UTM GPS EASTING:		VATION: 279 m (915 ft)
preparing a new well loc above well. The Office of the following requirement. 1. Datum: NAD height above to 2. Accuracy to I 3. Data Collection Survey grade GPS	nts: 1983, Zone: 17 North, Coordin mean sea level (MSL) – meters. Datum – 3.05 meters on Method:: Post Processed Di Real-Time Differer	or assigned API number on the PS coordinates that do not meet ate Units: meters, Altitude: ifferential
Mapping Grade GPS	Real-Time Differen	ifferential X ntial RECEIVED wing the well office of Oil and Gas
4. Letter size co	py of the topography map sho	owing the well of the of Oil and Gas
I the undersigned, hereby	certify this data is correct to the	e best of my knowledge and
prescribed by the Office		the regulations issued and 3 2018
AI		_ WV Department of
It al	Det zin	Environmental Protection
Signature	73-2180 Title	Date
- Samuel	1140	Date