

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

Tuesday, May 29, 2018 WELL WORK PERMIT Vertical / Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re:

Permit approval for 510838 47-007-02589-00-00

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.

Operator's Well Number: 510838

JIM C. HAMER COMPAN Farm Name:

U.S. WELL NUMBER: 47-007-02589-00-00

James A. Martin

Chief

Vertical Plugging Date Issued: 5/29/2018



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.

WW-4B Rev. 2/01

(-1

1) Date May	10		, 2018
2)Operator	's		-
Well No.			Mill #510838
3) API Well	No.	47-007	- 02589

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4)		
	Well Type: Oil/ Gas X / Liquid	d injection/ Waste disposal /
		derground storage) Deep/ Shallow X
5)	Location: Elevation 1447	Watershed Lynncamp Run
	District Birch	County Braxton Quadrangle Rosedale
6)	The state of the s	7) Designated Agent Jason Ranson
	Address 2400 Ansys Drive- Suite 200	Address 120 Professional Place
	Canonsburg PA 15317	Bridgeport WV 26330
8)	• *****	9) Plugging Contractor
	Name Danny Mullins	Name HydroCarbon Well Service
	Address 220 Jack Acres Road	Address PO Box 995
	Buckhannon WV 26201	Buckhannon WV 26201
	See Attachment for details and proceed	dures.
		RECEIVED Office of Oil and Gas
		RECEIVED Office of Oil and Gas MAY 1 8: 2018
		MAY 1 8 2018
		MAY 1 8 2018

PLUGGING PROGNOSIS

Parkersburg Mill (510838) Braxton Co. WV District, Birch API # 47-007- 02589

BY: Craig Duckworth

DATE: 12/14/17

CURRENT STATUS:

13 3/8" csg @ 36'

9 5/8" csg @ 978' (cts)

7" csg @ 2512' (cts)

4 ½" csg @ 6742"

Elevation @ 1447'

TD: 6744'

Fresh Water @ None Reported Coal @ 1314'-1320'
Saltwater @ None Reported
Gas shows @ 2472'
Oil @ None Reported
Perforated @ 6710'- 6680'

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MAY 1 8 2018

- 1. Notify State Inspector, Danny Mullins 304-546-8171, 48 hrs. Prior to W Department of Environmental Protection
- 2. Check TD w/wireline
- 3. TIH w/tbg to 6742', set 400'C1A cement plug from 6742' to 6342'. (Bottom hole Plug)
- 4. TOOH w/tbg to 6342' gel hole 6342' to 5000'.
- 5. TOOH w/tbg, Free point 4 1/2"" csg, cut csg @ free point, TOOH w/csg.
- 6. Set 100' C1A cement plug 50' in/out of casing cut, perforate all fresh water, salt water, coal, oil and gas shows below cut. Do not omit any plugs.
- 7. TIH w/tbg to 5000' set 200' C1A cement plug from 5000' to 4700', (4 1/2" csg cut).
- 8. TOOH w/tbg to 4700' gel hole 4700' to 2600'.
- 9. TOOH w/tbg to 2600', set 200' C1A cement plug 2600' to 2400'. (gas show @ 2472 & 7" csg set)
- 10. TOOH w/tbg to 2400' gel hole from 2400' to 1540'.
- 11. TOOH w/tbg to 1540, set 300' C1A cement plug, 1540' to 1240' (coal @ 1320'-1314' elevation @ 1447')

>M

- 12. TOOH w/tbg to 1240' gel hole from 1240' to 1078'.
- 13. TOOH w/tbg to 1078, set 200' C1A cement plug, 1078' to 878 (9 5/8" csg @ 978')
- 14. TOOH w/tbg to 878' gel hole from 878' to 278'.
- 15. TOOH w/tbg to 278', set 278' C1A cement plug, 278' to 0 (13 3/8" @ 36'
- 16. Erect monument with API#, Date plugged, EQT
- 17. Reclaim location and road to WV-DEP specifications.

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MAY 1 8 2018

EQT Company WR-35 Completion Report - Attachment Well Treatment Summary

API# 4700702589

States	
	3/27/2009
FracTyp Variab	Foam
Zone Marcellus	
# of Perfs 120	
From/To 6,71	0- 6,68
BD Press	4,726
ATP Psi	6,208
Avg Rate	67
Max Press Psi	7,787
ISIP Psi	4,966
10min SIP 4,276	5 mir
Frac Gradient	0.0
Sand Proppant	1.099.5
Water-bbl	119.69
SCF N2	-34 92
Acid-gal	0 gn

Formation Name	Depth To 0.00	Depth Bottom 0	Formation Thick 0.00	Gas	s Tes
Sand	0.00	44	44.00	Depth	Ret
Sand & Shale	44.00	320	276.00	1,600	N/S
Sand	320.00	432	112.00	1.900	N/S
Red Rock	432.00	625	193.00	2.100	Ode
Sand & Shale	695.00	845	150.00	2.472	285
Grey Shale	845.00	930	85.00		N/S
Sand & Shale	930.00	990	60.00		N/S
Grey Shale	990.00	1,015	25.00	2.400	odo
Sand & Shale	1,015.00	1,314	299.00		
Coal	1,314.00	1,390	76.00		
Salt	1,370.00	1.390	20.00		
Salt	1,390.00	1,407	17.00		
Salt	1,407.00	1,455	48.00		
Sand	1,455.00	1,477	22.00		
UPPER SALT	1,816.95	1,830	13.54		
UPPER B SALT	1,849.24	1,866	16.67		
ROSEDALE GAS SAN	1,929.46	0	0.00		
ROSEDALE SALT SA	2,015.92	0	0.00		
MAXTON SAND	2,113.85	0	0.00		
LITTLE LIMESTONE	2,184.69	0	0.00		
BLUE MONDAY SAN	2,208.65	0	0.00		
BIG LIME	2,241.98	0	0.00		
MISS BASE POROSIT	2,400.33	0	0.00		
MISS UNC	2,412.25	0	0.00		
SPEECHLEY	3,529.00	3,892	363.00		
BENSON SAND	4,954.00	4,988	34.00		
RHINESTREET SHAL	5,638.00	6,344	706.00		
SONYEA	6.344.00	6,507	163.00		
MIDDLESEX	6,507.00	6,529	22.00		
Genesee Lime	6,529.00	6,634	105.00		
GENESEO	6,634.00	6,659	25.00		
TULLY	6,659.00	6,666	7.00		
Hamilton	6,666.00	6,674	8.00		
MARCELLUS SHALE	6,674.00	6,720	46.00		
ONONDAGA LIME	6.720.00	0	0.00		
	Sand Sand & Shale Sand Red Rock Sand & Shale Grey Shale Sand & Shale Coal Salt Salt Salt Salt Salt Salt Salt Sa	Sand 0.00 Sand 0.00 Sand 4.00 Sand 320.00 Red Rock 432.00 Sand & Shale 695.00 Grey Shale 845.00 Sand & Shale 930.00 Grey Shale 990.00 Sand & Shale 1,015.00 Coal 1,314.00 Salt 1,370.00 Salt 1,370.00 Salt 1,407.00 Salt 1,207.00	Sand 0.00 0 Sand 0.00 44 Sand & Shale 44.00 320 Sand 320.00 432 Red Rock 432.00 625 Sand 85hale 695.00 845 Grey Shale 845.00 930 Sand & Shale 990.00 1,015 Sand & Shale 990.00 1,015 Sand & Shale 1,015.00 1,314 Coal 1,314.00 1,390 Salt 1,370.00 1,390 Salt 1,370.00 1,497 Salt 1,407.00 1,455 Sand 1,455.00 1,477 UPPER SALT 1,816.95 1,830 UPPER B SALT 1,816.95 1,830 UPPER B SALT 1,849.24 1,866 ROSEDALE SALT SA 1,929.46 0 MAXTON SAND 2,113.85 0 LITTLE LIMESTONE 1,138.50 BIUE MONDAY SAN 2,015.92 0 MAXTON SAND 2,113.85 0 LITTLE LIMESTONE 2,184.69 0 BIUE MONDAY SAN 2,208.65 0 BIG LIME 2,241.98 0 MISS BASE POROSIT 2,400.33 0 MISS UNC 2,412.25 0 BENSON SAND 4,954.00 4,988 RHINESTREET SHAL 5,638.00 6,344 SONYEA 6,344.00 6,507 MIDDLESEX 6,507.00 6,529 Genesse Lime 6,529.00 6,634 GENESEO 6,634.00 6,656 TULLY 6,659.00 6,666 Hamilton 6,666.00 6,674 MARCELLUS SHALE 6,674.00 6,720	Sand	Sand 0.00 0 0.00 Sand 4.4 44.00 Sand & Shale 44.00 320 276.00 1.600 Sand 320.00 432 112.00 1.900 Red Rock 432.00 625 193.00 2.100 Sand & Shale 695.00 845 150.00 2.472 Grey Shale 845.00 930 85.00 3.830 Sand & Shale 990.00 1.015 25.00 2.400 Grey Shale 990.00 1.015 25.00 2.400 Sand & Shale 1.015.00 1.314 299.00 Salt 1.370.00 1.390 20.00 Salt 1.370.00 1.407 17.00 Salt 1.407.00 1.455 48.00 Sand 1.455.00 1.477 22.00 UPPER SALT 1.816.95 1.830 13.54 UPPER B SALT 1.849.24 1.866 16.67 ROSEDALE GAS SAN 1.929.46 0 0.00 MAXTON SAND 2.113.85 0 0.00 MAXTON SAND 2.113.85 0 0.00 MISS BASE POROSIT 2.400.33 0 0.00 MISS BASE POROSIT 2.400.33 0 0.00 MISS BASE POROSIT 2.400.33 0 0.00 RINESTREET SHAL 5.638.00 6.344 706.00 RINESTREE SHAL 5.638.00 6.344 706.00 RINESTREET SHAL 5.638.00 6.659 25.00 TULLY 6.659.00 6.666 7.00 Hamilton 6.666.00 6.674 8.00 MARCELLUS SHALE 6.674.00 6.720 46.00

Gas	s Tests
Depth	Remarks
1.600	N/S
1.900	N/S
2.100	Odor
2.472	285mcf
3.830	N/S
6.744	N/S
2.400	odor

RECEIVED Gas Office of Oil and Gas MAY 1 8 2018

State of West Virginia Division of Environmental Protection Section of Oil and Gas

API# 4700702589

47007025898

		Well Op	erator's Report	of Well	<u>Work</u>				
Farm N	ame Jim C	. Hamer C	Company		Well N	umber 5	10838		
Location	Elevation			Quadran	gle ROSED	ALE			
	Distric	t Birch		Coun	ty Braxton,	wv			
				Degn	ee Minut		econd		
	Latitud		FSL				30.00 30.00		
	Longitude	4750	FWL	OU.	0.00 57.00	,	30.00		
Compan		-	Company la Avenue Charlest	on, ·	Casing & Tubing Size 13 3/8	Used i Drilling 36		Cement Fi	II Up
Age	nt Cecil F	lay			9 5/8	978	978	435.20	
Inspecto Permit Issue					7 4 1/2	2.512 6.742	2.512 6.742	550.15 123.90	
Verbal f Rotary Ri Total Dept	Mugging Permission 9 X.	completed granted or Cable Rig							
Wat	er Encountere	<u>a</u>							
Type		Ec	9f).						RECEIVED Office of Oil and Gas
			chad						and Gas
	Douc	rcpo	CTCU		REC				MAY 1 4 2018
					Office of	FOII & C	äas		···· 1 4 2018
					VON	3 0 20	09		WV no
CT-ST-E		_			10/Dam		-4 -4	E	WV Department of nvironmental Protection
	& Open Mines				W Depa				Protection
Typs Coal	-	- 1320'		Envi	ronmen	tal Pr	Otection	1	
Open F. Producing Form Marcellus	low Data nation				Pay Zono	s Depth (fi	: See attached	l for details	
Ges: initial C	nen Flow	281	MCF_ 2/24	09 Date	Oil: Initial	Open Flor	vBb	a//d	
-	d Open Flow	0	MCF 03/27/20	O9_Date	Final Op	en Flow			
Time of	open flow be	ween initial	and final tests	0	hours				
Static Roc	k Pressure		0_after	0 hours					
Second Produc	cino Formati	วก			Pay Zone Dept	h (ft)			
-	d Open Flow		MCF	Date	-			BbVd	
	al Open Flow		MCF	Date			ow ——	- 8840	
	•		end final tests		hours	Open Flow			
Static Rock F	ressure		after	hours	-				
NOTE: On back of 1) Detail 2) The w	s of Perforate	d intervals,	ing fracturing or stimulat siled geologiical reco	ing, physical d of all forma	change,etc.	coal enco	intered in the v	well bore	
				By Date	97 Jablo 11-11	-09	Company ()iredon	Orilling

Rosedale 4

API # 4700702589

EQT Company WR-35 Completion Report - Attachment Well Treatment Summary

Sta	i	ı
Date	03/27/2009	ĺ
PracTyp Varie	bi Foxos	I
Zone Marcellus		l
# of Perfs 120		ł
Frem/Te 6,7	10- 6,680]
BD Press	4,726	1
ATP Pil	6,208	l
Avg Rate	67	j
Max Press Psi	7,787	l
ISIP Psi	4.966	
10min SIP 4,27	6 5 min.	1
Frac Gradient	0.00	
Sand Proppant	1.099.53	İ
Water-bbl	119.69	l
SCF N2	24 65 65	(3
Acid-gal	0 gal	

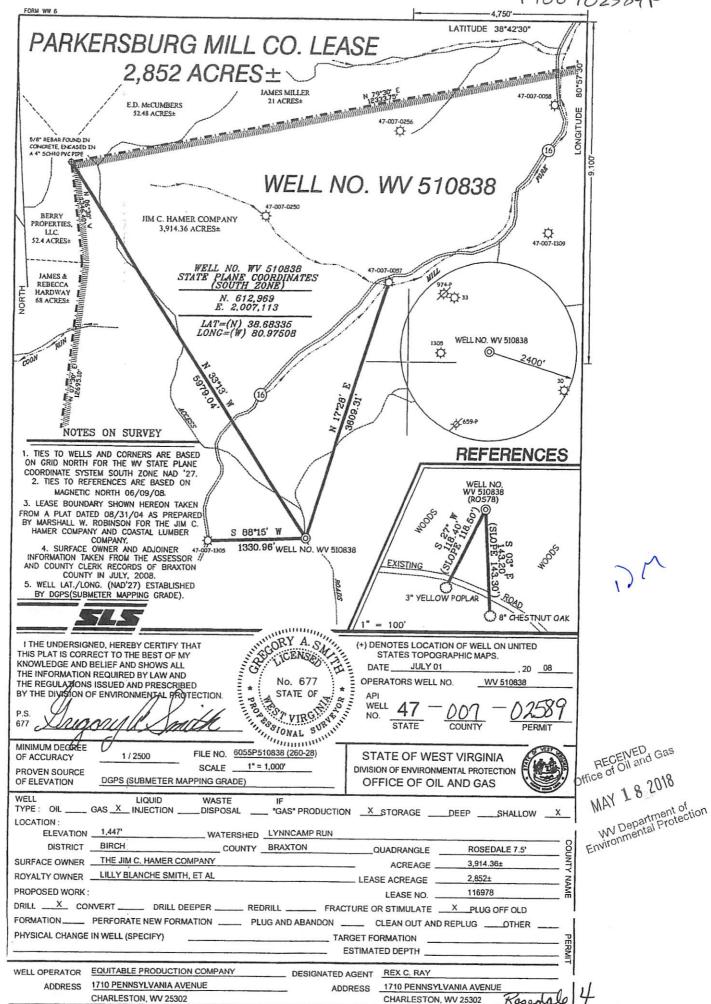
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Formation Name	Depth To	Depth Bottom	Formation Thick
	0.00	0	0.00
Sand	0.00	44	44.00
Send & Shale	44.00	320	276.00
Sand	320.00	432	112.00
Red Rock	432.00	625	193.00
Sand & Shale	695.00	845	150.00
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UPPER B SALT	1,849.24	1,866	16.67
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ROSEDALE SALT SA	2,015.92	0	0.00
MAXTON SAND	2,113.85	0	0.00
LITTLE LIMESTONE	2,184.69	0	0.00
BLUE MONDAY SAN	2,208.65	0	0.00
BIG LIME	2,241.98	0	. 0.00
MISS BASE POROSIT	2,400.33	0	0.00
MISS UNC	2.412.25	0	0.00
SPEECHLEY	3,529.00	3,892	363.00
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MIDDLESEX	6,507.00	6,529	22.00 ·
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TULLY	6,659.00	6,666	7.00
Hamilton	6,666.00	6.674	8.00
MARCELLUS SHALE	6,674.00	6,720	46,00
ONONDAGA LIME	6,720.00	0	0.00
0,,0,,0,,0,,	0.,, 20.00	•	

Gas	s Tests	
esth	Remarks	
600	N/S	
900	N/S	
100	Odor	
472	285mcf	
830	N/S	
744	N/S	
400	odor	

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MAY 1 4 2018



WW-4A Revised 6-07

1) Date:

May 10 2018

2) Operator's Well Number 510838 Parkersburg Mill #510838

3) API Well No.: 47 -

007

02589

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

4) Surface Ow	ner(s) to be served:	5) ((a) Coal Operator		
(a) Name	See Attached		Name		
Address	-		Address		
(b) Name	-		(b) Cool Ow	ner(s) with Declaration	
Address			Name	See Attached	
11441633			- Address	GCC Attached	7
(c) Name	-		Name		
Address			- Address		
6) Inspector	Danny Mullins		– (a) Cool Loo	see with Declaration	
Address	220 Jack Acres Road		_ (c) Coar Less Name	see with Declaration	
Address	Buckhannon WV 26201		_ Address		
Tolonhous			_ Address		
Telephone	(304) 546-8171		_		
The reason However, y Take notice accompany Protection, the Applica	you are not required to take as that under Chapter 22-6 of ying documents for a permit t	nts is that you have rig ny action at all. the West Virginia Cod to plug and abandon a v ne location described on n mailed by registered	hts regarding the applicate, the undersigned well of the attached Application or certified mail or deli	operator proposes to file or has file Office of Oil and Gas, West Virg	RECEIVED Office of Oil and Gas e instructions on the reverses side. MAY 1 4 2018 ed this Notice and Application and ginia Penar Deplar Empirity of mental or Environmental or En
		Well Operator	EQT Production Comp	any S	1
	-	By:	Erin Spine		2 -
OFFIC NOTAR	IAL SEAL Y PUBLIC	Its:	Regional Land Supervi	sor	
	WANSTREET	Address	2400 Ansys Drive, Suit		
EQT PRODUC	CTION COMPANY	11441000	Canonsburg PA 15317		
BRIDGEPO	PRT, WV 26330 expires April 07, 2020	Telephone	(304) 848-0035		
Subscribed and O My Commission		instruct	ay of May	2018 Notary Public	
wy Commission	1 Expires 7	-7-200	< p		

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

47-007-02589

510838 Parkersburg Mill #510838

Owner(s) (Surface and Access)

Heartwood Forestland Fund VII LP 19045 Stone Moumtain Rd. Abingdon, VA 24210

Coal Owner(s):

Island Creek Coal Co. 1000 Consol Energy Dr. Canonsburg, PA 15317

Potential Water Owner(s):

N/A

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Office of Oil and Gas

MAY 1 4 2018

WW-9 (5/16)

API	Number	4700	7 02589_
Oper	ator's Well	No. 5	510838 Parkersburg Mill #510838

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
Watershed (HUC 10) Lynncamp Run	Quadrangle Gassaway
Do you anticipate using more than 5,000 bbls of water to comp	lete the proposed well work? Yes No
Will a pit be used? Yes ✓ No ☐	
If so, please describe anticipated pit waste: Formatic	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? 20 ml
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provid	
Underground Injection (UIC Permit	Number)
Off Site Disposal (Supply form WW	V-9 for disposal location)
Will closed loop systembe used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizont	al)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?	
	offsite, etc
-If left in pit and plan to solidify what medium will be	used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	
West Virginia solid waste facility. The notice shall be provided	Cas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West Virgorovisions of the permit are enforceable by law. Violations of a or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based on	
Subscribed and swom before me this day of	May 2018
Deliecca dulomptre	OFFICIAL SEAL NO CAT Publicate of West virginia
My commission expires $4-7-2000$	EGT PRODUCTION COMPANY PO BOX 280 BHIDGEPORT, WY 26330

Operator's Well No. 510838 Parkersburg Mill #510838_

	atment: Acres Disturbed 1±	Preveg etation p	n	
Lime 3	Tons/acre or to correct t	to pH 6.5		
Fertilizer type (10	0-20-20) or equivalent			
Fertilizer amount_	1/3 ton	lbs/acre		
Mulch 2		Tons/acre		
		Seed Mixtures		
Te	emporary	Perma	Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Red Fescue	40	Red Fescue	15	
Aslike Clover	5	Aslike Clover	5	
Annual Rye	15			
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of	pit will be land applied, provifthe land application area.	application (unless engineered plans included imensions (L,	ding this info have been W, D) of the pit, and dim	
provided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provif the land application area. Ived 7.5' topographic sheet.	ide water volume, include dimensions (L,	W, D) of the pit, and dim	
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provif the land application area. Ived 7.5' topographic sheet.	application (unless engineered plans included water volume, include dimensions (L,	W, D) of the pit, and dim	
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Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provi f the land application area. Ived 7.5' topographic sheet.	ide water volume, include dimensions (L,	W, D) of the pit, and dim	
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo	e pit will be land applied, provi f the land application area. Ived 7.5' topographic sheet.	ide water volume, include dimensions (L,	W, D) of the pit, and dim	
Maps(s) of road, location, p provided). If water from the (L, W), and area in acres, of Photocopied section of invo Plan Approved by: Comments:	e pit will be land applied, provi f the land application area. Ived 7.5' topographic sheet.	ide water volume, include dimensions (L,	W, D) of the pit, and dim Office o MAY WV Degenvironme	

EQT Production Water plan Offsite disposals

Waste Management - Meadowfill Landfill

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

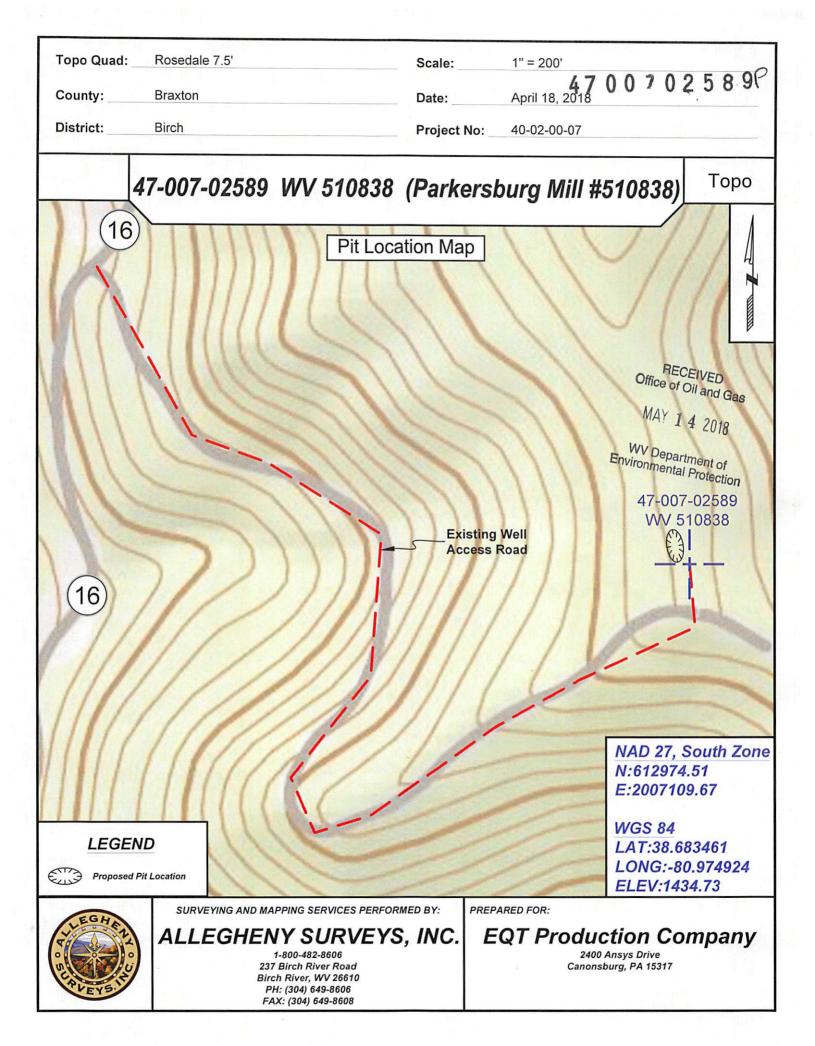
Waste Management - Northwestern Landfill

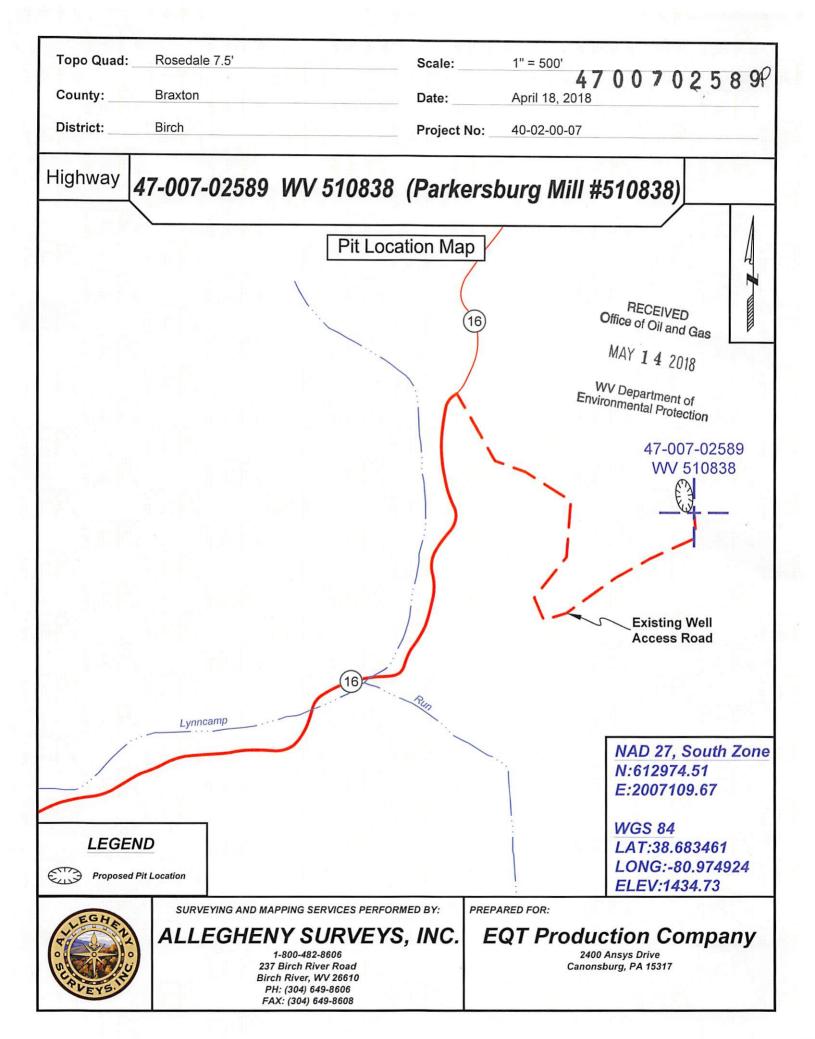
512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

Office of Oil and Gas

MAY 18 2018

WV Department of Environmental Protection





Topo Quad: Rosedale 7.5' 1'' = 2000'Scale: County: Braxton Date: April 18, 2018 Birch District: Project No: 40-02-00-07 Topo 47-007-02589 WV 510838 (Parkersburg Mill #510838) Teeny Knob RECEIVED 47-007-02589 Office of Oil and Gas WV 510838 CO RTE 16 MAY 1 4 2018 Gip WV Department of Environmental Protection Rattlesnake Knob NAD 27, South Zone N:612974.51 E:2007109.67 **WGS 84** LAT:38.683461 LONG:-80.974924 ELEV:1434.73 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: **EQT Production Company** ALLEGHENY SURVEYS, INC. 1-800-482-8606 2400 Ansys Drive 237 Birch River Road Canonsburg, PA 15317 Birch River, WV 26610

PH: (304) 649-8606 FAX: (304) 649-8608



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Parkersburg Mill #510838 – WV 510838 - API No. 47-007-02589

POTENTIAL SAMPLE LOCATIONS

There appears to be no potential water sources within the required 1000 feet of the existing well WV 510838.

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1 4 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 Road

P.O. Box 108 • 1413 Childress Road Alum Creek, WV 25003 phone: 304-756-2949 fax: 304-756-2948

4700702589P

Topo Quad: Rosedale 7.5'

1" = 2000' Scale:

County:

Braxton

April 18, 2018 Date:

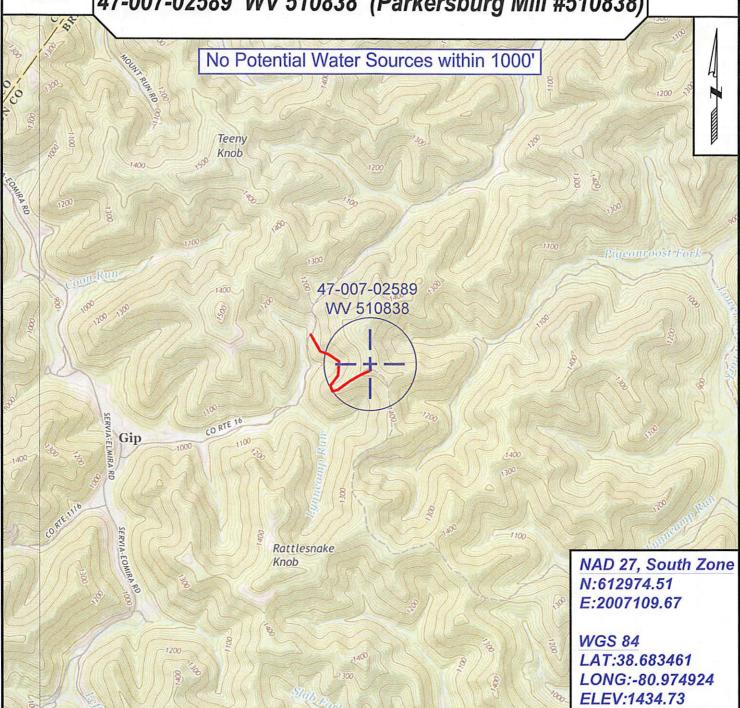
District:

Birch

40-02-00-07 Project No:

Water

47-007-02589 WV 510838 (Parkersburg Mill #510838)





SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

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

PREPARED FOR:

EQT Production Company

2400 Ansys Drive Canonsburg, PA 15317



Miss Utility of West Virginia (WV811) (Exhibit A) Directions to Gas Well No. WV 510838 API No. 47-007-02589

- Beginning at the intersection of US Interstate 79 and WV County Route 11, Exit 46 (Servia Road) in Braxton County, West Virginia.
- Proceed North on WV County Route 11 (Servia Road), for approximately 5.8 miles, to the
 junction of WV County Route 11 (Servia Road) and WV County Route 16 (Mill Fork Road).
 (Point No. 1)
- Turn right onto WV County Route 16 (Mill Fork Road) and proceed Northeast, for approximately 1.1 miles, arriving at the Well Access Road on the right. (Point No. 2)
- Turn right onto the Well Access Road and proceed Southeast, for approximately 0.50 mile, arriving at WV 510838. (*Point No. 3*)

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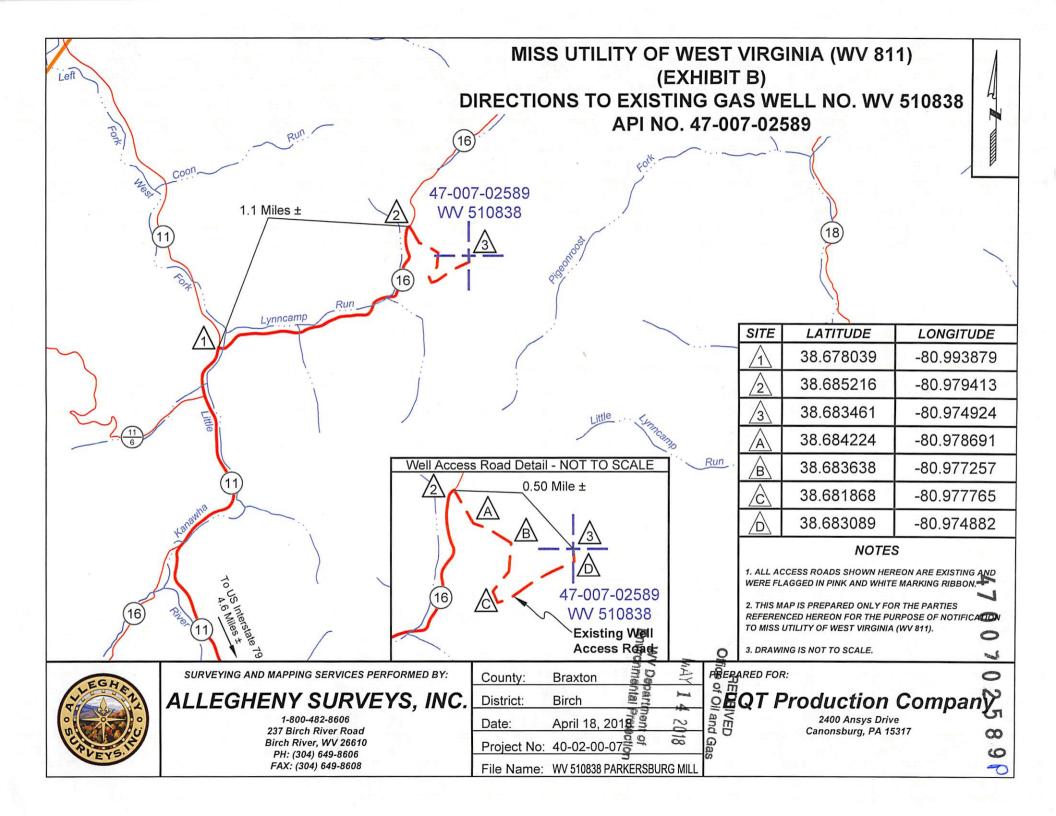
WV Department of Environmental Protection

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 Road Alum Creek, WV 25003 phone: 304-756-2949 fax: 304-756-2948





West Virginia Department of Environmental Protection RECEIVED Office of Oil and Gas WELL LOCATION FORM: GPS "" 14 2018

API: 47-007-02589 WELL NO.: WV 510838 (Parkersburg Mill #510838)	Tronmens
FADM NAME: Portrarchura Mill Co	111
FARM NAME: Parkersburg Mill Co.	
RESPONSIBLE PARTY NAME: EQT Production Company	
COUNTY: Braxton DISTRICT: Birch	
QUADRANGLE: Rosedale 7.5'	
SURFACE OWNER: Heartwood Forestland Fund VII, LP	
ROYALTY OWNER: Security National Trust Company, et al.	
UTM GPS NORTHING: 4281651	
UTM GPS EASTING: 502181 GPS ELEVATION: 437m (1435 ft	()
The Responsible Party named above has chosen to submit GPS coordinates in lieu or preparing a new well location plat for a plugging permit or assigned API number or above well. The Office of Oil and Gas will not accept GPS coordinates that do not 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: Post Processed Differential	n the meet
Real-Time Differential	
4. Letter size copy of the topography map showing the well location. the undersigned, hereby certify this data is correct to the best of my knowledge and selief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.	d
Sta Com 15#2100 4/27/10	8
Stynature Title Data	