

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

July 09, 2014

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-501721, issued to EQT PRODUCTION COMPANY, 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Chief

James Martin

Operator's Well No: 20

Farm Name: FEDERAL COAL CO.

API Well Number: 47-501721 Permit Type: Plugging

Date Issued: 07/09/2014

### **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.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

Form WW-4 (B) Permit Copy (Rev 2/01) Date: 5-13-14

Operator's Well

Well No. 506038 (Federal Coal W10979)

API Well No.: 47 005 - 01721

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

Well Type:	Oil	Gas	X	Lic	quid Injection		Waste Dis	sposal:	
If Gas, Pro	duction	X	Or Uni		und storage		Deep	Shallow	×
)	Elevation:	1309	Mator	chod:	Whitee Deep				
Location:	Crool		County		Whites Bran Boon		Ougales	LAPTUR VA	
District:	0,00,	_		-	Boon	Е	Quadrangle:	Williams Mour	tain 7.5
Marie de la company	EQT Pro	duction C	ompany		7) D	esignate	ed Agent: Re	x C. Ray	
Well Opera						ddress:	120 Profession		
Address:	Bridgepor	rt, WV 26	330				Bridgeport, W		
					0) PI	ugging	Contractor:	1 2722	
Oil & Gas F	Ross Eller					ame:	HydroCarbon Wa	II Consina	
Name:	21 Brierhill Drie						PO BOX 995	all Service	_
	Beckely, WV 25						Buckhannon, W\	26201	
				3			- RESIDENT		
	der. The work				olugging this v	well is a	s follows:		
					olugging this	well is a	s follows:		
			procedu	ires.	USE ONLY	well is a	s follows:		

JUL 9 2014

WV Departure Environmenta 07/1,1/2014

#### PLUGGING PROGNOSIS

### Federal Coal Co. #20 (506038)

Boone County, W.V. API # 47-005-01721

BY: Craig Duckworth

DATE: 2/19/14

### CURRENT STATUS:

9 5/8" @ 582' (cts)
7" @ 1912' (cts)
4 1/2" @ 5128' (496 cu.ft.)
2 3/8" @ 4795'

### TD 5286

Fresh Water @ 105' Gas Shows @ None Reported Oil Shows @ None Reported

Salt Sand top @ 760'

Coal @ 125'-128'; 175'-180'; 224'-227'; 447'-450'

Stimulation @ Lower Devonian (4213'-5013'); Upper Devonian, Gordon, Berea (3132'-3821'); Weir, Injun, Lime (2595'-2968'); Lower Maxon (2054'-2075')

- 1. Notify inspector, Ross Eller, 304-932-6844, 24 hrs. prior to commencing operations.
- 2. TOOH w/tbg check condition & talley. GEL HOLE TO 4213'
- 3. TIH w/ tubing to 4213'; Set 100' C1A Cement Plug @ 4213' to 4113' (Perls @ 4213'-5013').
- 4. TOOH w/ tubing @ 4113', Gel Hole @ 4113' to 3132'.
- 5. TOOH w/ tubing @ 3132'; Set 100' C1A Cement Plug @ 3132' to 3032' (Perfs @ 3132'-3821').
- 6. TOOH w/ tubing @ 3032', Gel Hole @ 3032' to 2595'.
- TOOH w/ tubing @ 2595'; Set 100' C1A Cement Plug @ 2595' to 2495' (Perls @ 2595'-2968').
- 8. TOOH w/ tubing @ 2495', Gel Hole @ 2495' to 2054'.
- 9. TOOH w/ tubing, Free Point 4 1/2"csg, cut 4 1/2"csg @ Free Point, TOOH w/ 4 1/2"csg
- 10. TIH w/ tubing @ 2054'; Set 192' C1A Cement Plug @ 2054' to 1862' (Perfs @ 2054' 2075' & 4 1/2" cm & 7" @ 1912').
- 11. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 4.5" cut. Do not omit any plugs shown below.

  13.15'
  12. TOOH w/ tubing @ 1862'. Gel Hole @ 1862' to 760'.

  SET 100' C1A CEMENT PLUG FROM 1315'- 1218' GEL 1215'
- 12. TOOH w/ tubing @ 1862', Gel Hole @ 1862' to 760'.

  SET 100' CIA CEMELT PLUG EXCA 13.

  TOOH w/ tubing @ 760'; Set 228' C1A Cement Plug @ 760' to 532' (Salt Sand @ 760' & 9.5/8'' @ 582').
- 14. TOOH w/ tubing @ 532', Gel Hole @ 532' to 447'.
- 15. TOOH w/ tubing @ 447'; Set 100' C1A Cement Plug @ 447' to 347' (Coal Show @ 447'-450')
- 16. TOOH w/ tubing @ 347'; Gel Hole @ 347 'to 227'.
- 17. TOOH w/ tubing @ 227'; Set 227' C1A cement plug @ 227' to Surface' (Coal Shows @ 224' 227' & 175' 180' & 125'-128' & FW @ 105'.)
- 18. Top off as needed
- 19. Set monument to WV DEP specs
- 20. Reclaim Location to WV DEP Specifications.

Received

ELEV. 1315

MAY 1 4 2014

Office of Oil and Gas
Wy Dept. of Environmental Protection



### Received

MAY 1 4 2014

								••••	•
	506038				•	•		Office o	Oil and Gas
							W	/ Dept. of Env	rironmental Protecti
WR-35						API# 47-	005-01721	15-11-11-11	Ar 12
•			State of Y	Vest Virginia				1	feel in the form
			Division of Envir Section o	onmental Prol f Oil and Gas	ection				
			Well Operator's	Report of Wel	Work				
Farm Name:	Federal Coal G	<b>o.</b>			Operator Well (WV-508038-F		20 1)	· · · · · · · · · · · · · · · · · · ·	
LOCATION:	Elevation: 1	315"		Quadrangle:	Williams Mou	ntain		[ C.	
	District: C	ccok		County:	Been9	Minutes	Seconds	,	
	Latitude:	12,150	Feet South of	38	Dag.	2	30	į 1°:	the factorial
	Longitude:	5,190	Feet West of	81	Deg.	40	0	į v	7
0	Equilable Proc	luction Co	maanv	!	Casing	Used	Left	Coment	
Company:	P.O. Box 2347	, 1710 Peni	nsylvania Avenue		& Tubing	ln Daliffan	in Well	FIII Up Call Fil	
	Charleston, W	V 25328			Size	Drilling	- vran	·····	
Agent:	Slophen G. Pe	erdue			13 3/8"	38'	38'	grouted	
Inspector: Permit Issued	Richard Camp d: 7/17/00 Well work o		d: 11/06/01		9 5/8'	582'	582'	236.3 N²	
Verbal Plugg	Well work	k complete	d: 12/13/01	_	7"	. 1912	1912	448.65 ft <sup>2</sup>	
Rotary Rig Total Depth Fresh water	Permission X 5286 depths (ff)	granted o Cable R feet 105°		<b>-</b>	4 1/2"	5128	5128'	496 ft³	
Salt water de		760', 2120'			2 3/8*		4795		
	mined in area?			<del>-</del>	<u>L</u>				. ·
Coal Depths		125 -128;	175'-180'; 224'-22	r: 447'-450'		•			
OPEN FLOY	Y DATA	rtower Des	ronlan, Upper Devi	enian / Gention	/ Borea, Welr	Linjun/	Pay Zo	ne Depih (fi):	See Attach for details
• •	•	Lime, Low	er Maxion	<u>.</u> `				BPNQ	
	Gas: Initial o		59 . ow: . 169	MCF/d		i open flow Inal open flo			•
	F Time of	inal open fi Monan flow i	between initial and		•		Hours	*****	
	Statle rock pr		335	psig (surf	ace pressure)	after		Hours	
	•		Hon	<del></del>			Pay Zo	na Depth (fl):	
	Second prodi Gas: Initial o	_		MCF/d	Oil: Initia	d open flow		BbVd	
		Final open !	low:	MCF/d		inal open fi			
	o emiT	f open flow	belween initial and	final tests			Hours		
		no notice		osia (suri	lace oressure)	after		Hours	

NOTE: ON BACK OF THIS FORM 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBOKE.

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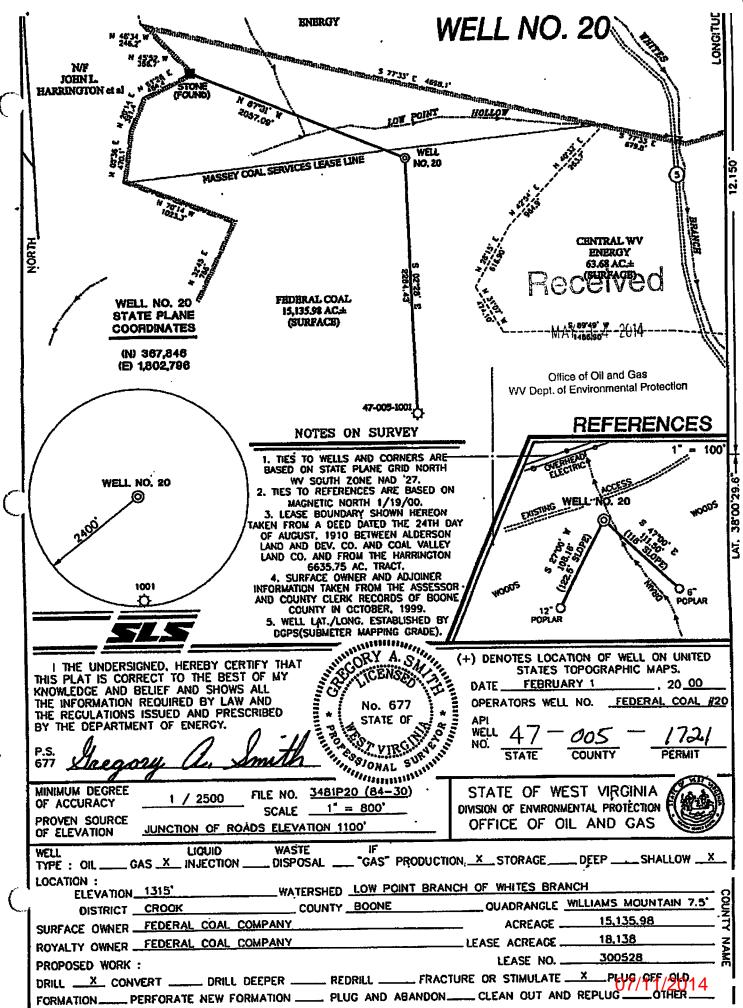
## EQUITABLE PRODUCTION COMPANY WR-35 COMPLETION REPORT - Attachment Well Treatment Summary

Well: WV-506038-Federal Coal API# 47-005-01721

Daie	12/05/01	12/05/01	12/05/01	12/05/01			
Type Frec Internation	BERNING STE	Nº 11	Açid W Nº	10 a 65Q		AVIV LA	bai
Acid, N <sub>2</sub> , Foam, water			Weir	Lower Maxton			
Zone Treated	Lower Devonian	Upper Devonian Gordon Berea	injun Lime				
# Perfs From - To:	40 4213'-5013'	20 3132'-3821'	36 2595'-2968'	20 2054' – 2075'			
BD Pressure @ psl	3080	3260	620	2800		<del> </del>	
ATP psi	3541	3354	1684 / 3953 				
Avg. Rate, B=BiM, S= SCF/M	54,400 S	64,300 S	39.6 B (foam)				<u>-</u>
Max. Treat Press psi	4160	3940	2280 / 4200	2000		ļ	
ISIP psi	3080	2930	310	3208	<del></del>	<del>                                     </del>	
Frac Gradient	.77	.94	.54 1290	4750 /2 min)			
10 min S-I Pressure Material Volume Sand-sks	1690	1430	1250	- :: 447ALL	THE SHADE	KIN STEEL	1 1 8
Water-bbl					1 1:5	4 · 4· · · ·	<u>:</u>
SCF N <sub>2</sub>	852,750	764,700	348,260	F00145 0		-	<del>:</del>
Acid-gal	600 gal 7 1/2%	650 gal 8.1%	3500 gal 14.6%	500 gal 15.6	1777	:····	<u>:</u>
NOTES:				Couldn't est. rate did not treat this zone		an 110 o man o	

5286' TD

TOP	BOTTOM	FORMATION Coal	REMARKS 125'-128'; 175'-180'; 224'-227'; 4 Water @ 105', 760', 2120'	
1957' 2323' 2408' 2878' 3114' 3131' 3370' 4422' 4858' 5016'	2246° 2386' 2679' 2985' 3131' 3134' 3386' 4856' 5016' 5188'	Lower Maxton Little Lime Big Lime Weir Sunbury Berea Gordon Lower Huron Java Angola Rhinestreet	GT @ 2405' = NS GT @ 2711' = NS GT @ 2899' = NS GT @ 3055', 3339' = 59 mcfd GT @ 3743' = 59 mcfd GT @ 4152' = 59 mcfd GT @ 4403' = 59 mcfd GT @ 4909' = 59 mcfd GT @ 4909' = 59 mcfd	MAY 1 4 2014  Office of Oil and Gas WV Dept. of Environmental Protection
<b>5188</b> °		Millionica		



WW-4-A	
Revised 6/07	

1) Date: 5-13-14
2) Operator's Well Number 506038 (Federal Coal W10979)
3) API Well No.: 47 005 - 01721

County

Permit

State

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	al Operator:
Ġ.	(a) Name	Federal Coal Co. Inc.		Name	None
	Address	601 Sixth Avenue.	7	Address	
		Suite 200			
		St. Albans, WV 25177			
	(b) Name			(b) Coal O	wner(s) with Declaration
	Address			Name	Federal Coal Co. Inc.
					601 Sixth Avenue.
				Address	Suite 200
					St. Albans, WV 25177
	(c) Name			Name	
	Address		-11/0	Address	
			Becelve	.Co	
			Liv		
6)	Inspector	Ross Eller	1127 T 4 2014	(c) Coal Le	essee with Declaration
	Address	121 Brierhill Drie	WAY I'M LUIS	Name	Pine Ridge Coal Company, LLC.
		Beckely, WV 25801		Address	500 Lee St. E.
	Telephone	304-932-6844	Umma of Oil and G	188	Suite 202
			WV Dept. of Environmenta	Il Protection	Charleston, WV 25301
			WW Depart		

### 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 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.

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.

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 with the Chief 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.

Well Op	erator:	EQT Production Company
3 Augustinian Marian		Victoria J.Roark
STATE OFFICIAL SEAL	······=	Permitting Supervisor
E EN WEST WEST WEST WEST WEST WEST WEST WEST	: Ē	PO Box 280
Nicholas L. Burganic	=	Bridgeport, WV 26330
Nicholas L. Bumgardner Rt. 1, Box 4 elepho Liberty, WV 25124	ne	(304) 848-0076
My Commission Expire HAS 27, 20	18 12	day of MAY , 2014-
1	mi /	Notary Public
y Commission Expires:	6/1	7/2018

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.

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For delivery Information visit our website at www.uspa.comg

Postage \$

Certified Fee Postmark.
Here

Resear Receipt Fee (Endorsement Required)

Restricted Delivery Fee (Endorsement Required)

For Federal Coal Company Inc.

Tota 601 Sixth Avenue

Suite 200

St. Albans, WV 25177

Plugging 506038

PS Form 3800, August 2008

See Reverse for Instructions

Federal Coal Company Inc. 601 Sixth Avenue Suite 200 St. Albans, WV 25177 Plugging 506038

Received

MAY 1 4 2014

Office of Oil and Gas WV Dept. of Environmental Protection

Article Number 7014 051	662h 6Ehh 0000	Hard by
	4. Restricted Delivery? (Extra l	seY □ (
TCIZS VW 25101/32	S. Service Type     Certified Mail*	
Federal Coal Company Inc. 601 Sixth Avenue 5uite 200		
tot bessenbb eloinA	If YES, enter delivery address	on 🗆 :woled
or on the front if space permits.	D. is delivery address different fi	seY 🗆 Yr meti i
so that we can return the card to you. Attach this card to the back of the mailplece,	B, Received by (Printed Name)	C. Date of Delivery
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse	enutengili "A	finegA 🗆
NDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION O	The Party of

C/O Vicki Roark P.O. Box 280 Bridgeport, WV 26330

WATER STATE OF THE PARTY OF THE

07/11/2014

ZIP 26330 041L10228892 \$07.40 FIRST CLASS MAIL 05/13/2014 US POSTAGE

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THE STATE OF THE S

Pine Ridge Coal Company LLC 500 Lee St. E. Suite 202 Charleston, WV 25301 Plugging 506038

Received Office of Oil and Gas
Office of Environmental Protection

U.S. Postal Service THE CERTIFIED MAIL THE RECEIPT 7014 0510 0000 4439 4262 7014 0510 0000 4439 4282 Certified Fee Return Receipt Fee (Endorsement Required) Pine Ridge Coal Company LLC 500 Lee St. E. Suite 202 Charleston, WV 25301 Plugging 506038

15 10		10	etum Receip	R observed	From 3811, July 2013
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P.O. Box 280 Bridgeport, WV 26330

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> Ross Eller 121 Brierhill Dr Beckley, WV 25801

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> > Ollice of Oil and Gas
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> > W Dept. of Environmental Protection



WW-9 Revised 2/03

F	age	of				
2	2) Opera	ator's We	II Nu	mber		
5	06038	(Federal	Coa	W109	79)	
3	) API W	/ell No.:	47	005 -	01721	

### STATE OF WEST VIRGINIA

# DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Watershed:	W	hites Branch	Quadrangle:	Williams Mountain 7.5'
Elevation:	1309'	County:	Boone District:	
Description of antic	ipated Pit Waste:	Formation FI	uids	
Do you anticipate u Will synthetic liner			complete the proposed well Is so, what ml.?	work? Yes No_XNo_M.
Proposed Disposal X	Land Applic Undergroun Reuse (at A Offsite Disp	ation d Injection - UIC Pe PI Number) osal Permit #.	rmit Number	
	sed, what type? S	ell? Air, freshwater synthetic, petroleum		Receiv
Landfill of Landfi	derstand and agre , 2005, by the Off e provisions of the	ee to the terms and ice of Oil and Gas o permit are enforces	f the West Virginia Division o able by law. Violations of any	WATER POLLUTION PERMIT of Environmental Protection. I of terms or condition of the gene
certify under pena application form an for obtaining the int significant penalties	alty of law that I had all attachments formation, I believes for submitting fa	ve personally exam thereto and that, ba e that the informatio se information, incli	sed on my inquiry of those in n is true, accurate and compl uding the possibility of fine or	information submitted on this dividuals immediately responsilete. I am aware that there are imprisonment.
Company Offi			11.	
Company Office	cial (Typed or Pr	rinted) <u>Victoria</u>	Roark	
Company Offi	cial Title	Permitting	Supervisor-WV	
Subscribed and	sworn before me	this	day of <u>MAY</u>	, <u>2014</u>
My Commission	Expires	6/27/2018	(	OFFICIAL SEAL STATE OF WEST VIRGI NICHOLAS L. DBoy 1.14  My Crimete's alexpires July 2

### OPERATOR'S WELL NO.: 506038 (Federal Coal W10979)

LEGEND Property Boundary 1111111 Diversion Spring Wet Spot Road 4 Planned Fence Drain Pipe with size in Inches Water Way --- @ -**Existing Fence** Stream Cross Drain -X X X X Open Ditch Artificial Filter Strip Rock XXXX 8666 North Building Drill site Water well 0 (W) N ---Pit with Cut Walls Pit with Compacted Walls Area of Land Application of Pit Waste Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH Lime 3 Tons/acre or to correct to pH Fertilizer (10-20-20) or equivalent 1/3 ton Ibs/acre (500 lbs minimum) Mulch 2 Tons/acre or hydroseed. SEED MIXTURES Area I Area II Seed Type Ibs/acre Seed Type Ibs/acre KY-31 40 **Orchard Grass** 15 Alsike Clover Alsike Clover Annual Rye 15 RECEIVED Office of Oil and Gas ATTACH: Drawing(s) of road, location, pil and proposed area for land application. JUL 9 2014 Photocopies section of involved 7.5 topographic sheet. Plan approved by: WV Department of **Environmental Protection** Comments: Date: Field Reviewed?

Williams Mountain 7.5' 1 " = 2000' Topo Quad: Scale: May 6, 2014 Boone Date: County: Project No: 140-16-00-07 Crook District: Торо 47-005-01721 WV 506038 (Federal Coal 10979) Williams Mountain | Gar We 46-005-01721 WV 506038 Received MAY 1 4 2014 Office of Oil and Gas WV Dept. of Environmental Protection Branch NAD 27, South Zone N: 367,847.82 E: 1,802,790.90 WGS 84 LAT: 38.008328 LONG: -81.684317 ELEV: 1309.26 Lick PREPARED FOR: SURVEYING AND MAPPING SERVICES PERFORMED BY: ALLEGHENY SURVEYS, INC. **EQT Production Company** P.O. Box 280 237 Birch River Road Birch River, WV 26610 Bridgeport, WV 26330

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



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

API: 47-005-01721 WELL NO.: WV 506038 (Federal Coal W10979)
FARM NAME: Federal Coal Company
RESPONSIBLE PARTY NAME: EQT Production Company .
COUNTY: Boone DISTRICT: Crook .
QUADRANGLE: Williams Mountain 7.5* 683
SURFACE OWNER: Federal Coal Company
ROYALTY OWNER: Federal Coal Company, et al.
UTM GPS NORTHING: 4206960 .
UTM GPS EASTING: 439925 . GPS ELEVATION: 399 m (1309 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:
Real-Time Differential  4. Letter size copy of the topography map showing the well location.  WV Dopt. of Environmental Protection
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 prescribed by the Office of Oil and Gas.
Stag O 600 P5 # 2180 5/7/14  Signature Title Date

Topo Quad:_	Quad:Williams Mountain 7.5'		Scale:	1 " = 2000'		
County:	y:Boone		Date:	May 6, 2014		
District:	Crook		Project No:	140-16-00-07		
Water	47-005-01721	WV 50603	38 (Federal	Coal 10979)		
	0 potential water v	wells within 1000	Pit Wallands	Lynn, Gr		
Fauces	400	Contra	Jacrets Com of	Williams Mountain	Gar Well	
	Valory			V C		
4/25			30.1			
2	F3116	Morne		Ports VIII	7	
		70,	EM Malling	4 7	1-18	
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inis)	WV 506	038 point	dollow	700	V/ he	
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a' T	4/14-71		Received			
MAIN	1 27/21		1076	12-11-1-		
Fine West		Wells		MAY 1	4 2014	
Williams Mountain 7.5' Quet Thatten 1.5' Quedesho	ols / / Stranger   Town	2002			Dil and Gas 5 Outdrangto	
		Hollow	ам 1023 у		MR 4	
Branch		T.	18	NAD 27	Couth Zone	
Branco	11/1/2011	5	Brun	N: 367,8		
		Ind.	1 18M 926	WGS 84	2,790.90 4 3.008328	
		BM 1	7	LONG:	-81.684317	
0115	7	918	Lick	ELEV: 1	1309.20	
LEGHE	SURVEYING AND MAPPING SERVICES PERFORMED BY:  ALLEGHENY SURVEYS, INC. EQT Production Company					
0 0	1-80 237 Bit	00-482-8606 irch River Road	5, 1140.	P.O. Box 280	P.O. Box 280 Bridgeport, WV 26330	
PVEYS	Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608			07/44/0044		



### POTENTIAL WATER SAMPLE DATA SHEET

EQT PRODUCTION COMPANY LEASE NAME AND WELL No. Federal Coal 10979 - WV 506038 - API No. 47-005-01721

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 506038.

Received

MAY 1 4 2014

Olfich of Oil and Gas WV Dept. of Environmental Protection

BIRCH RIVER OFFICE 237 Birch River Road

Birch River, WV 26610 phone: 304-649-8606 fox: 304-649-8608

BRIDGEPORT OFFICE 172 Thompson Drive

Bridgeport, WV 26330 phone: 304-848-5035 fue: 304-848-5037

CALDWELL OFFICE 212 Cumberland Street Caldwell, OH 43724

phone: 740-305-5007 /az 740-305-5126

ALUM CREEK OFFICE P.O. Box 108 \* 1413 Childress Road

Alum Creek, WV 25003 phone: 304-756-2949

fax: 304-756-2948

W W W . A L L E G H E N Y S U R V E Y S . C O M