

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

Friday, January 26, 2018 WELL WORK PERMIT Vertical / Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for WV 606226 C. M. GARRETT 6226

47-021-01695-00-00

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.

James A. Martin

Chief

Operator's Well Number: WV 606226 C. M. GARRETT 6226

Farm Name: BEAVER, CHARLES P.

U.S. WELL NUMBER: 47-021-01695-00-00

Vertical / Plugging

Date Issued: 1/26/2018

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. 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 under the terms of that agreement.

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

Date:	November 9, 2017	
Operator's We	11	_
Well No.	606226 (Garrett #6226)	
API Well No.:	47 021 - 01695	_

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

CK # 21666 11-14-17 \$ 1,000

		APPLICATION	I FOR A PE	RMIT TO PLUG	and abandon		
4)	Well Type: Oil	Gas		quid Injection	Waste Dispos	_	and the same of the same
	If Gas, Production	X	_Or Undergro	ound storage	Deep	Shallow _	X
5)	Location:	tion: 1083 ft. Troy	_Watershed: _County:	Horn Creek Gilmer	Quadrangle:	Auburn 7.5	5'
6)	EC	OT Production Co		_ 7) Design Addres	ated Agent: Rex C.		j. j L
	Address: Bri	idgeport, WV 263	330	_	Bridgeport, WV 2		
8)	Oil & Gas Danny M Name: 220 Jack Address: Buckhani	Acres Road		Name:	g Contractor: HydroCarbon Well S PO BOX 995 Buckhannon, WV 2		
10)		e work order for t		plugging this well		0201	
			OFFIC	E USE ONLY			
	Notification must be Work order approve		ict oil and gas	s inspector 24 hour	s before permitted wor Date	k can comme	-
							Office of Silandicas DEC 10 2017

PLUGGING PROGNOS

606226 C.M.Garrett #6226 API# 47-021-01695 District, Troy Gilmer County, WV

BY: R Green DATE: 10/08/17

CURRENT STATUS:

TD @ 2143' Elevation @ 1071'

10" casing @ 142' 8 1/4" casing @ 1100' (Pulled) 5 3/16" casing @ 2090' 2" tubing" @ 2088'

Fresh Water @ None Reported Saltwater@ None Reported Oil Show @ 2079' Gas shows @ 2090' Coal @ None Reported

- 1. Notify inspector, Danny Mullins, @ 304-932-6844, 24 hrs. prior to commencing operations.
- 2. TOOH 2" tubing, TIH and check TD @ or below 2125'.
- 3. TIH, spot 30 bbl. of 6% gelled water followed by a 200' C1A cement plug, 2125' to 1925'. (Gas show @ 2090', oil show @ 2079', & 5 3/16" casing seat). WOC 8 hrs. Tag TOC add additional C1A cement if necessary.
- 4. Free point 5 3/16" casing, cut casing @ free point, TOOH 5 3/16" casing.
- 5. Set a 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
- 6. TOOH to 1200' set a 300' C1A cement plug 1200' to 900' (8 1/4" casing seat, elevation).
- 7. TOOH to 500' set a 400' C1A cement plug 500' to 100'. (10" casing seat).
- 8. Free point 10" casing, cut casing @ free point, TOOH 10" casing.
- 9. Set a C1A cement plug 50' in casing cut to surface. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
- 10. * Note, if unable to cut and pull 10", TIH and perforate 10" casing with 4 holes @ 75'.TIH to 100' set a 100' C1A cement plug 100' to surface.
- 11. Erect monument with API#, date plugged, & company name.
- 12. Reclaim location and road to WV-DEP specifications.

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NOV 2 2 2017



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 6

Blue Slate

Permit NQ11				LL RECOR		Oil o	r Gas Well
Company W	illard 2. .0.30x 505	Ferroll-Into	r-County De	Co. Casing and	d Used in	Left in	Packers
Farm 9	.Y.Cole	_	144		Drilling	Well	FEERETS
Location (water		of Horn Cre	ek	Size			
Well No	\$ /		Elev 1071	16	Conducto	-	
District	Troy		lmer	13			Rind of Packer Bottom Hole
The surface of	tract is owned	in fee by	.Cole	· 10	180	142	1
- Aubi	irn i Vs	-Address-		AL:	1100		Size of
Mineral rights		C.M.Garret		614			DAb - b
		_AddressVe.st		5 3/16	2090	2090	Depth set
Drilling commer		pr. 7 196	3				D-4
		ay 10, 1965			2088		Perf. top
Date Shot	Fre	m	Го	Liners Used_			Perf. hottom
With		<u> </u>					Perf. top
	/10ths Water		·	nch			Perf. bottom
	_/10ths Merc.						
Volume	75.	<u>5M</u>	Cu.	FL CASING CE	MENTED	SIZE	No. Ft Ry 12 Date
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				·			FEETINCHES
WELL FRACTU	IRED May	<u>y 19,1965 </u>	500 bls flu	id- 500 gal e	cid		_FEETINCHES
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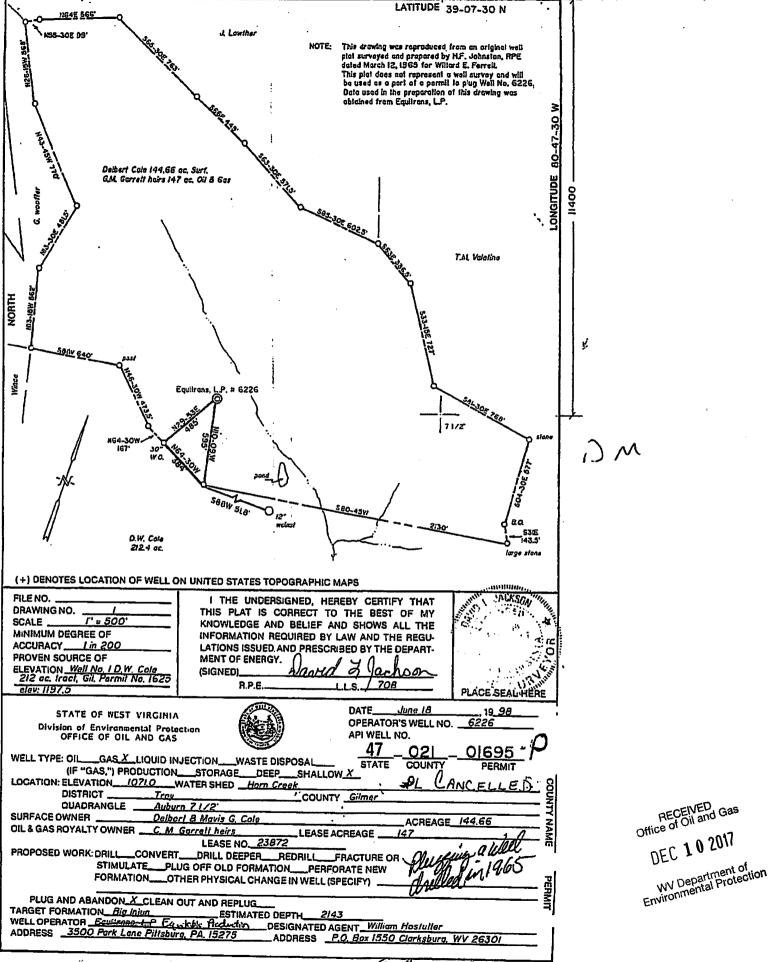
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(Title)

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WW-4-A				
Revised 6/07				

1) Date: November 9, 2017 2) Operator's Well Number 606226 (Garrett #6226) 3) API Well No .: 47 021 01695

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

RECEIVED Office of Oil and Gas

NOV 2 2 2017

4)	Surface Owner(s	s) to be served:	5) (a) Coal	Operator:	WV Department of Environmental Protection
	(a) Name	Charles Delbert Cole, II	Name	None	Environmental Protection
	Address	P. O. Box 1100	Address		-
		Jane Lew, WV 26378			
	(b) Name		(b) Coal Ow	ner(s) with Declaration	
	Address		Name	Charles Delbert Cole, II	
				P. O. Box 1100	and the same of th
			Address	Jane Lew, WV 26378	
	(c) Name		Name		and the street of the street o
	Address		Address		
3)	Inspector	Danny Mullins	(c) Coal Les	see with Declaration	And the second of the second o
	Address	220 Jack Acres Road	Name	None	
		Buckhannon, WV 26201	Address		
	Telephone	(304) 932-6844			

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 Operator: **EQT Production Company** Victoria J.Roark By: Regional Land Supervisor Its: PO Box 280 Address: Bridgeport, WV 26330 Telephone: (304) 848-0076 Subscribed and sworn before me this day of Notary Public My Commission Expires:

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your Adepprivacyofficer@rivgbb.

Misty S Christie

1207 Briercliff Rd

Bridgeport, WV 26330

My Commission Expires February 20, 2018 personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply within statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal another actions. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer will be a privacy of the privacy of t

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November 9, 2017 2) Operator's Well Norther 808226 (George : #6223)

3) API Well do. 01095; 74

RECEIVED Office of Oil and Gas

Minister S. Country STATE OF WEST VIRGINIA - BUILEAU OF BAVIRGMMENT 304 OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS MAY 22 2017 NOTICE AND APPLICATION TO PLUG AND ABANDON MELL WV Department of Seviceimental Protection 5) (a) Coal Operator n to be served. omeld Charles Deipert Cole, II элсИ 1. O. Box 1100 PROCEESS Jane Lew. WV, 26516 (b) Cost Ownerfel with Declaration Charles Delbert Cole, il 3613ki Actions 3,051/4 Accress (c) Cost Lessee With Declaration 20 Jack Acres Rose emeil Buckhannon, WV 26201 Address NAMED AROUSE

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NOV 2 2 2017

WV Department of Environmental Protection

REQUESTED SERVICE

ZIP 26330 041L1022889

WW-9 Revised 5/16

Ρ	age	of			
2) Operat	or's Well	Num	ber	
6	06226 (Garrett #	6226)	
3	\ API \M	all No :	17	021	01605

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

FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

RECEIVED Office of Oil and Gas

NOV 2 2 2017

			Environmental Protection
Operator Name:	EQT PRODUCTION COMPANY	OP CO	DE:
Watershed (HUC 10):	Horn Creek	Quadrangle:	Auburn 7.5'
	ore than 5,000 bbls of water to complete	e the proposed well work?	Yes No_X_
Will a pit be used? Yes If so, please describe anti	the state of the s	Formation Fluid	e
	sed in the pit? Yes X No	Is so, what ml.?	20 10 ml
=	d for Treated Pit Wastes:	To oo, what im.	20 10 1111
Toposed Disposal Metho		ride a completed form WW-9-GPP)
	Underground Injection (UIC Perm	A Ni washaw)
X	Reuse (at API Number Various)
X	Off Site Disposal Permit (Supply	form WW-9 for disposal location.	See attachment)
	Other: (Explain		
Will closed loop system be	e used ? If so, describe:		
Orilling medium anticipate	d for this well? (vertical and horizontal)	? Air, freshwater, oil based, etc	
If oil based, wh	nat type? Synthetic, petroleum, etc.		
Additives to be used in dri	illing medium?		
	hod? Leave in pit, landfill, remove offsit		
	lan to solidify what medium will be used? (c	ement, Lime, sawdust)	and the state of t
Landfill or offsite	name/permit number?		
9090	en notice to the Office of the Oil and Gas of a	50 M M M M M M M M M M M M M M M M M M M	1997 - 1997 - 1990
	cility. The notice shall be provided within 24 l	nours of rejection and the permittee sr	aali also disclose
where it was properly dispose	ed.		
*	nd and agree to the terms and condition		
	e of Oil and Gas of the West Virginia Div		
aw or regulation can lead	re enforceable by law. Violations of any	term or condition of the general pe	ermit and/or other applicable
, ,	tachments thereto and that, based on m	y inquiry of those individuals imme	ediately responsible for
obtaining the information,	I believe that the information is true, acc	curate and complete. I am aware	that there are significant
penalties for submitting fa	lse information, including the possibility	of fine or imprisonment.	
Company Official Sig	gnature	MIL	
Company Official (Ty	vped Name) Victoria J. Roark	\mathcal{A}	**************************************
Company Official Tit	le Regional Land Supervisor -	wv /	
Subscribed and sworn	before/me this 14th	day of November	, 2017
γ	Vista S. Chutae	Notary	WEST IS
My Commission Expire	es / J	2/20/18	STATE OF W
		AAAA STE	Misty S Christie
		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Misty S Christie 1207 Briercliff Rd Bridgeport, WV 26330 My Commission Expires February 20 2019
			My Commission Expires February 20 2011

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5/16	Revised

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906226 (Garrett #**9226)** 3) API Well No.: 47 | **02**1 - 01695 . 3) API Well No.:

RECEIVED Office of Oil and Gas	MENTAL PROTECTION	STATE OF WES VARTMENT OF BRIVINOS OFFICE OF	당면
NOV % & 2017	JE & RECLAMATION PLANT		FLUID
WV Department of Environmental Protection			
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e rejection et ar	y foad of dill o me ge or alsociated was	nholic, petroleum, etc. ? in pit, iendhil, romove offslik wior meslim, vill tie daad? (de mionber? • Office of the Oil and Gas uf an	dditives to be used in diffing modium (ii) cruings dispossi method? Leavu (i iet ingst urbisic namelpengit simites shall provide within notice to the 'ost Viiginia solut waste feelity. The notic
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anderstand that the fit and/or other applicable left responsible for	enn ör candition of the peneuc' perm inquiry of those individuate iminedia nare and complete. It am aware mat	Sas of the West Virginia Divi o by law. Viviations of any b ent action. Erety and that, beyed on my the information is true, ago:	i certify that i understand and agree pril 1, 2016, by the Office of Oil and Covisions of the permit are enforces of options of the permit are enforces of prilostron form and all offacturents the praining the information, I believe the enables for submitting felac information.
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Planned Fence	Drain Pipe with s	size in inches	Water Way	
///	<u> </u>	→	←→ ←	
Existing Fence X X X X	Stream	/ `	Cross Drain	.
Open Ditch	n Ditch Artificial Filter Strip		Rock	$^{\wedge}$
	<u> </u>	X	%	.0 [
North	Building	Water well	Drill site	
N		W	⊕	٠
Pit with Cut Walls	Pit with Compacte	Area of Area of Area of	Land Application of Pit V	Waste
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posed Revegetation Treatme Lime 3 Fertilizer (10-20-20) or equ	ent: Acres Disturbed: Tons/acre or to correct to pH tivalent1	\$- 1± Prevegetation		
posed Revegetation Treatme Lime 3 Fertilizer (10-20-20) or equ	ent: Acres Disturbed: Tons/acre or to correct to pH tivalent1 Tons/acre or hydroseed.	1± Prevegetation 6.5 //3 ton	n pH	
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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

> RECEIVED Office of Oil and Gas

NOV 2 2 2017

WV Department of Environmental Protection

Bridgeport, WV 26330

RECEIVED Office of Oil and Gas Topo Quad: Auburn 7.5' 1" = 600' Scale: Gilmer October 31, 2017 County: Date: NOV 2 2 2017 Troy WV Department of Environmental Protection 25-19-00-07 District: Project No: Highway 47-021-01695 WV 606226 (Garrett #6226) Pit Location Map 47-021-01695 WV 606226 **Existing Well** Access Road 8 NAD 27, South Zone N:762,519.80 E:2,055,822.49 WGS 84 LEGEND LAT:39.093895 LONG:-80.803166 Proposed Pit Location ELEV:1082.57 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. EQT Production Company P.O. Box 280 1-800-482-8606

237 Birch River Road

Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 Topo Quad: Auburn 7.5' 1" = 500' RECEIVED
Office of Oil and Ga Scale: Gilmer October 31, 2017 County: Date: NOV 2 2 2017 Troy District: 25-19-00-07 Project No: WV Department of Environmental Protection Topo 47-021-01695 WV 606226 (Garrett #6226) Pit Location Map 47-021-01695 WV 606226 **Existing Well** Access Road NAD 27, South Zone N:762,519.80 E:2,055,822.49 8 LEGEND WGS 84 LAT:39.093895 LONG:-80.803166 Proposed Pit Location ELEV:1082.57 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 P.O. Box 280 237 Birch River Road Bridgeport, WV 26330

Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

RECEIVED Office of Oil and Gas Topo Quad: Auburn 7.5' 1" = 2000' Scale: NOV 2 2 2017 Gilmer October 31, 2017 County: Date: WV Department of Environmental Protection Troy District: Project No: 25-19-00-07 Topo 47-021-01695 WV 606226 (Garrett #6226) Spurgeon CO RTE 6/2 CO RD 7122 47-021-01695 WV 606226 NAD 27, South Zone N:762,519.80 E:2,055,822.49 WGS 84 LAT:39.093895 LONG:-80.803166 ELEV:1082.57 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR:



ALLEGHENY SURVEYS, INC.

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EQT Production Company

P.O. Box 280 Bridgeport, WV 26330

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NOV 2 2 2017





POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY LEASE NAME AND WELL No. Garrett #6226 WV 606226 47-021-01695	<u></u> :
POTENTIAL SAMPLE LOCATIONS	
Site: 1 Spacing:576+/- Owner:Debra M. Moss	
Address: 354 WV Highway 47 W., Linn, WV 26384 . Phone No.	
Comments:	

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

Topo Quad: Auburn 7.5' Scale: 1" = 2000' RECEIVED Office of Oil and Office of Oil and Office of Oil and Office of Oil and NOV 2 2 20	_
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District: Troy Project No: 25-19-00-07 WV Department Environmental Project No: 25-19-00-07	t of
Water 47-021-01695 WV 606226 (Garrett #6226)	1
NAD 27, South A N:762,519.80 E:2,055,822.49 WGS 84 LAT:39.093895 LONG:80.80316 ELEV:1082.57 ALLEGHENY SURVEYS, INC. PREPARED FOR: EQT Production Comparison	Zone 266

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

P.O. Box 280 Bridgeport, WV 26330

WW-7 8-30-06



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NOV 2 2 2017

WV Department of Environmental Protection

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

API: 47-021-01695 WELL NO.: WV 606226 (Garrett #6226)
FARM NAME: D. W. Cole
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Gilmer DISTRICT: Troy
QUADRANGLE: Auburn 7.5'
SURFACE OWNER: Charles Delbert Cole II, et al.
ROYALTY OWNER: C. M. Garrett Heirs Trust
UTM GPS NORTHING: 4327215
UTM GPS EASTING: 517022 GPS ELEVATION: 330 m (1083 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: Post Processed Differential Real-Time Differential 4. Letter size copy of the topography map showing the well location. 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.