06/14/2019



west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

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

Friday, June 14, 2019 WELL WORK PLUGGING PERMIT Vertical Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 604260 47-033-01666-00-00

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: 604260 Farm Name: PIGGOTT U.S. WELL NUMBER: 47-033-01666-00-00 Vertical Plugging Date Issued: 6/14/2019

Promoting a healthy environment.

## 47-033-01666P 06/14/2019

## **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.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

¢		<b>470 3 3 0 1 6 6 6 P</b> 06/14/2019
WW-4 Rev.	B 2/01	1) Date December 6 , 2018 2) Operator's Well No. 604260 Pigott #4260 3) API Well No. 47-033 - 01665
	DEPARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid (If "Gas, Production or Und	d injection/ Waste disposal/ derground storage) Deep/ ShallowX
5)	Location: Elevation 1091	Watershed Robinson Run
	District Eagle-Outside	County Harrison Quadrangle Shinnston
6)	Well Operator EQT Production Company	7) Designated Agent Jason Ranson
	Address 2400 Ansys Drive- Suite 200	Address 120 Professional Place
	Canonsburg PA 15317	Bridgeport WV 26330
8)	Oil and Gas Inspector to be notified Name Sam Ward	9)Plugging Contractor Name HydroCarbon Well Service
	Address PO Box 2327	Address PO Box 995
	Buckhannon WV 26201	Buckhannon WV 26201

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

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

Work order approved by inspector Salarate Date 4/19/19

.

#### PLUGGING PROGNOSIS

604260 L.M.Piggott #4260 API# 47-033-001666 District, Eagle Harrison County, WV

BY: R Green DATE: 08/30/18

#### CCURRENT STATUS:

TD @ 2467' Elevation @ 1091'

10" casing @ 115' 6 5/8" casing @ 1412' 5 3/16" casing @ 2240' 3" tubing @ 2335' (Set on 3" X 5 3/16" anchor packer @ 2335')

Fresh Water @ None Reported Saltwater@ None Reported Gas Show @ 1560', 2422'.2441' Oil shows @ None reported Coal @ None Reported

- 1. Notify inspector, Sam Ward @ 304-389-7583, 24 hours prior to commencing operations.
- 2. TIH and check TD @ or below 2400' and locate 3 X 5 3/16" packer.
- Attempt to release 3" X 5 3/16" packer, if unable to release packer. TIH wireline and cut 3" tubing on top of packer. TOOH 3" tubing.
- TIH to top of packer and spot 40 bbl. of 6% gelled water followed by a 250' C1A cement plug, 2335' to 2085' (Packer and 5 3/16" casing seat) WOC 8 hrs. Tag TOC, add additional C1A cement if necessary.
- 5. Free point 5 3/16" casing cut casing @ free point .TOOH 5 3/16" casing.
- TIH and 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.
- 7. TOOH to 1650' set a 300' C1A cement plug 1650' to 1350' (6 5/8" casing seat). GAS
- 8. Free point 6 5/8" casing cut casing @ free point .TOOH 6 5/8" casing.
- 9. TIH and 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.
- 10. TOOH to 1100' set a 200' C1A cement plug 1100' to 900'.(Elevation).
- 11. TOOH to 300' set a 200' C1A cement plug 300' to 100'. (10" casing seat).
- 12. Free point 10" casing cut casing @ free point .TOOH 10" casing.
- 13. TIH and set a 100' 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.
- Note, if unable to cut and pull 10" casing, TIH and perforate 10" casing with 6 holes @ 75', TIH to 100', set a 100' C1A cement plug 100' to surface.
- 15. Erect monument with API#, date plugged, company name.
- 16. Reclaim location and road to WV-DEP specifications.

5000

Piggott 4260 - 604260 API# 47-033-01666 Elevation 1091

	AL-WELL 11:51 530-27263	REPURI		Spec	vial Tes	t []	Cleani	ng 🗍	Bailin	19 EC	Swabl	bing []	Pun	nping 🗋	Shoe	ting 🗌
<del></del>	Cquitabl	e Gas U	omoe	1017 - 1	1. Va	<u>. 19</u> 7.	•		Con	npany			WEL	L NO	1,260	
Lease	No. 12823	_ Farm		Ise 1	. <i>P</i> i	<u>kott</u>					Acres	108	Map.	Clks.	N.K. 3.	-3
Twp. c	r Dist_ <u>62</u> 1	<u>e</u>		c	county	Harr	<u>'ison</u>		Stai	<u>e la 1</u>	B •Other	r wells or	n lease		100	
Date c	ompleted ?-li	-14	(	).D.O.F			. M <b>. C</b> u.	Ft. 0.	R.P	······	Produ	icing san	a Squa	11. St.	<u>: % 6th</u>	2
7as at	1560,	2422, 2	2113	<b>.</b>			. Volum	e factor_	6.16	<u>}</u>	Tube	d with	2335	ft. of	2	in. thg.
'acked	at 2335		_ ft.	With	-3/10	5 x 3	in	oh			hnch	or				Packer
asin	G RECORD: 1	0 <sup>#</sup>	<u> 11</u>	<u>y</u>	ft. 8	31/4"	+E2		fl.	6≸ <b>≲″</b>	141	2		53íc"	2240.	
otal d	epth21,67	ft	. To	p of fluid	at	21:35	fi	t. Bridg	ied at	<b>a</b>		ft. Dej	oth after	this work	2167	ít.
	OPEN	FLOW AN	ID M	INUTE P	PRESS	JRE TES	STS OF	GAS FI	ROM	2		INCH T	UBING	🖾 casi		
		"U" Tube Reading	M or W	Size Open- ing	Pitot or F.M.	Open Flow	L/P	1/j Min.	1 Min.	2 Min.	3 Min.	4 Min.	5 Mín.	R/P	Hrs.	Date
cfore	Against Line Pressure	хкх	X	ххх	хх	7XX	6	67	67	7	7	72	3	Tone	Teken	<del></del>
C3 C25 'G	From Atmosphere	6/10		્રેક	M	4.18		3	3	1.	2	23	3	{?	6	
fter	Against Line Pressure	xxx	x	ххх	xx	ххх	6	63	7	73	31	92	10.	11	12	
Let.	From Atmosphere	10/20	12	<u>]</u> #	M	5.75	ĺ	1	. <u>]</u>	2	23	3	2	11	12	•
<u>21</u> /	RKS (concernin 7, with 3 MENDATION	ued Taci									•					
10unt	Sailing	<u></u> A		t of free g This a 129 s	Job	ved per y 	••••	al Previc			DTAL E	· ····	E LAST	TWELVE	MONTH	M Cu. fl.

\_\_\_\_ 19<u>53</u>\_\_\_

	47033016669
FURM WW 6	06/14/2019
1000 <td< td=""><td>DE 39°25'00"</td></td<>	DE 39°25'00"
NO PLAT	ERENCE ONLY . F AVAILABLE
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY. MINIMUM DEGREE	CATION OF WELL ON UNITED 5 TOPOGRAPHIC MAPS. 11 28
OF ACCURACY FILE NO STATE OF WES PROVEN SOURCE SCALE DEPARTMENT OF ELEVATION OIL AND GAS	OF ENERGY S DIVISION
WELL LIQUID WASTE IF TYPE: OILGASINJECTIONDISPOSAL"GAS" PRODUCTIONSTORAGE_ LOCATION: ELEVATIONWATERSHED <u>Robinson Run</u> DISTRICTEagleCOUNTY Harrison	1
SURFACE OWNER QUADRANGE	LE Shinascon
PROPOSED WORK:	\GE ₹
DRILL CONVERT DRILL DEEPER REOPHIL EDACTURE OF THE	
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATI	TAND REPLUG OTHER
ESTIMATED DEP	PTH
WELL OPERATOR <u>Equitable Gas Co</u> DESIGNATED AGENT ADDRESS ADDRESS	
HARIFTTA RLUFPRINT 02535	

•

٩

----

•

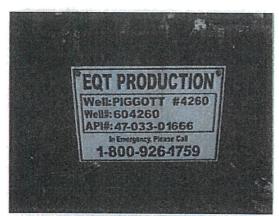
•

-

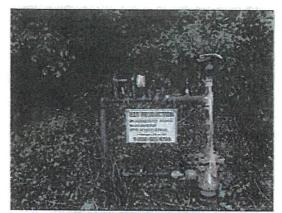
# 470330 0661 4 28 19



Site Pictures Pigott #4260 WV 604260 47-033-01666



WV 604260 Well ID Sign



WV 604260 Well Pad Site



WV 604260 Well Pad Site



Looking along Access Road toward Driveway

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

CHARLESTON OFFICE 301 RHL Boulevard - Suite 5 Charleston, WV 25309 phone: 304-756-2949 fax: 304-756-2948

ALLEGHENYSURVEYS.COM

			06/14/2019
1)	Date:	December 6, 2018	
		s Well Number	

2)	Operator's	Well	N
6042	60 Pigott #4260		

3) API Well No.: 47 -

01666

4703301666

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

4)	Surface Owne	er(s) to be served:	5) (a) Coal Operator	
	(a) Name	See Attached	Name	See Attached
	Address		Address	
	(b) Name		(b) Coal Own	ner(s) with Declaration
	Address		Name	See Attached
			Address	· · · · · · · · · · · · · · · · · · ·
	(c) Name		Name	
	Address		Address	
6)	Inspector	Sam Ward	(c) Coal Less	see with Declaration
	Address	PO Box 2327	Name	
		Buckhannon WV 26201	Address	
	Telephone	304-389-7583		

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 Department 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

**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.

WW-4A Revised 6-07 47-033-01666

604260 L M Pigott #4260

Owner(s) (Surface and Access) Diane M. Moran & William D. Poling 2631 Lucas Rd. Shinnston, WV 26431-6823

Kevin Allen Kuhens 2683 Lucas Road Shinnston, WV 26431

Coal Owner(s) N/A

**Coal Operator** Murray Energy Corp. 46266 National Road Saint Clairsville, OH 43950

Potential Water Owner(s): Joe Glaspell Rt 1 Box 2530 Shinnston WV 26431

William Daniel Poling 2631 Lucas Road Shinnston WV 26431

Donald Stark 2610 Lucas Road Shinnston WV 26431

Shannon Hines 2656 Lucas Road Shinnston WV 26431

Kevin A Kuhens 2683 Lucas Road Shinnston WV 26431

Nancy E Sturm 2754 Lucas Road Shinnston WV 26431

William C Dunn Jr. 2735 Lucas Road Shinnston WV 26431

Robert Bartlett 1 Jarvis Ave Shinnston WV26431

470 3 30 10 10 4/20 19

W	W-9	
(5/	16)	

01666 API Number 47 - 033 Operator's Well No.604260 Pigott #4260

### 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 306686	
Watershed (HUC 10) Robinson Run	Quadrangle Shinnston	
Do you anticipate using more than 5,000 bbls of water to complete Will a pit be used? Yes No		-
If so, please describe anticipated pit waste: Formation I	Fluids	
Will a synthetic liner be used in the pit? Yes 📝 🥂	No If so, what ml.? 20 ml	
Proposed Disposal Method For Treated Pit Wastes:		Sow
Land Application (if selected provide a	-	4/19/19
Underground Injection (UIC Permit N Reuse (at API Number_	lumber	)
Off Site Disposal (Supply form WW-9	) for disposal location)	)
	(interpretation)	
		an tiller de system
Will closed loop systembe used? If so, describe:		
Drilling medium anticipated for this well (vertical and horizontal)	? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc		
Additives to be used in drilling medium?		
Drill cuttings disposal method? Leave in pit, landfill, removed off		
-If left in pit and plan to solidify what medium will be us		
-Landfill or offsite name/permit number?		

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. 2 SA

Company Official Signature	
Company Official (Typed Name) Erin Spine	
Company Official Title Regional Land Supervisor	
Subscribed and swom before me this 18 day of December	- 20 /8
Allecca Clansheed	Notary Public NOTARY PUBLIC
My commission expires <u>4-7-2020</u>	REBECCA L. WANSTREE EQT PRODUCTION COMPANY PO DOX 280
	BRIDGEPORT, WV 28330 My commission expires April 97, 272

# 4703306114/2069

Form WW-9

.

.

Operator's Well No.\_604260 Pigott #4260\_\_\_\_

Proposed Revegetation Treatment: Acres Dis	sturbed <u>1±</u>	Preveg etation pH	
Lime <u>3</u> Tons/acro	corto correct to pH 6.5		
Fertilizer type (10-20-20) or equ	uivalent		
Fertilizer amount 1/3 ton	lbs/acre		
Mulch 2	Tons/acre		
	Seed Mixtures		
Temporary	*	Perma	nent
Seed Type Ibs/acre		Seed Type	lbs/acre
Red Fescue 40	Red	Fescue	15
Aslike Clover 5	Aslik	e Clover	5
Annual Rye 15			•

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Dwante
Comments:
Title: OOG Inspector Date: 4/19/19
Field Reviewed? ()Yes ()No

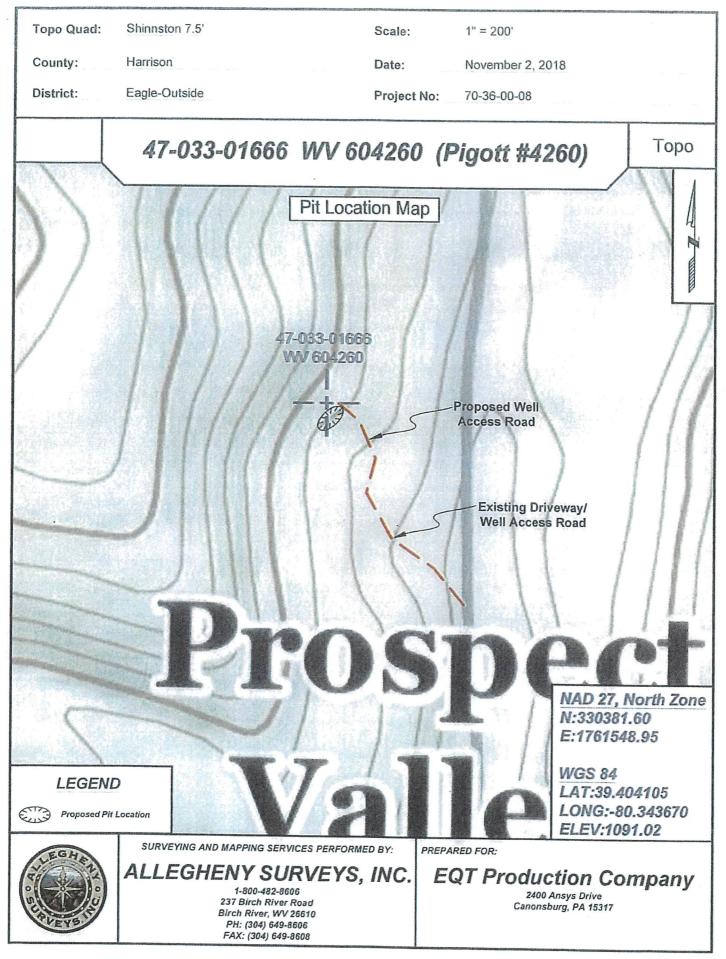
## EQT Production Water plan Offsite disposals

### Waste Management - Meadowfill Landfill

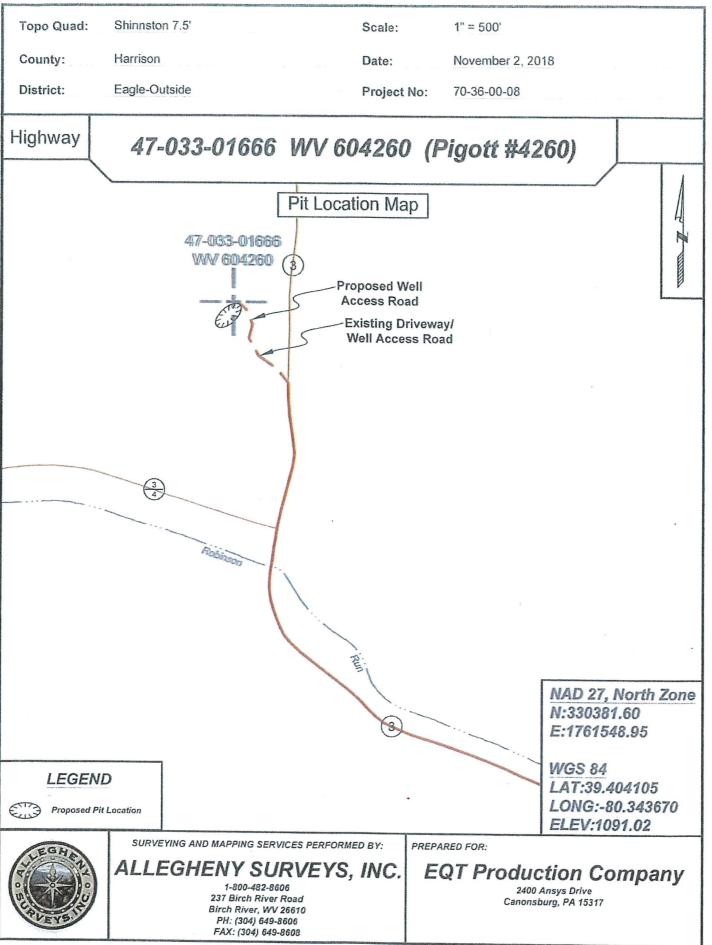
Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

### Waste Management - Northwestern Landfill

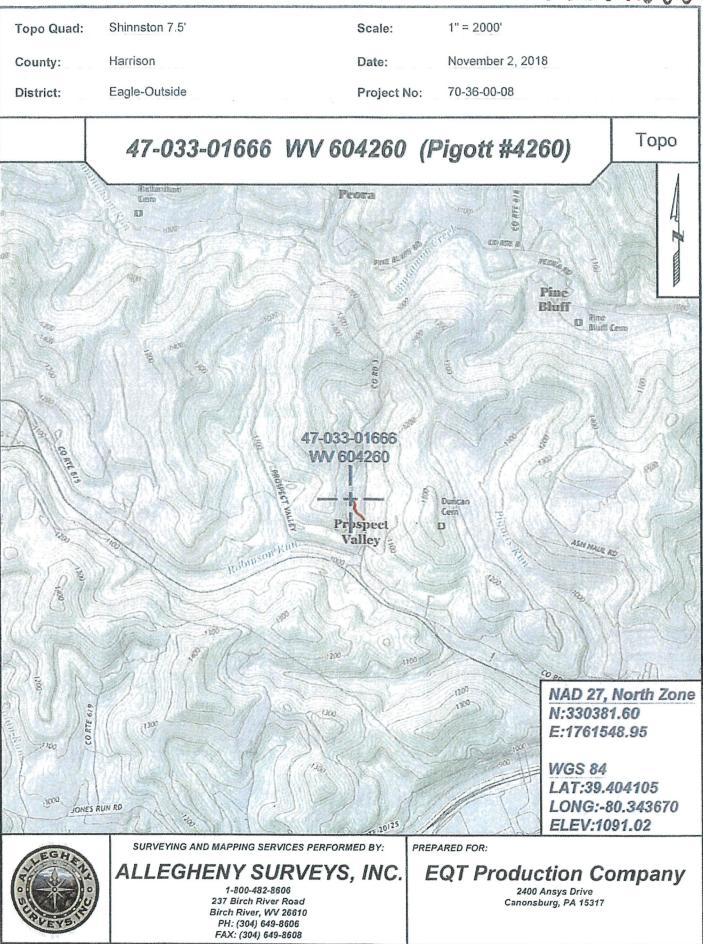
512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV







## 470 330 0661 4/20 19



WW-7	
8-319-0K	



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

API: 47-033-01666 WELL NO .: WV 604260 (Pigost #4260)
FARM NAME: L. M. Pigoti
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Harrison DISTRICT: Fagle-Outside
QUADRANGLE: Shineston 7.5°
SURFACE OWNER: Diane Moran and William D. Poling
ROYALTY OWNER: Diane Moran and William D. Poling
UTM GPS NORTHING: 4361828
UTM GPS EASTING: 556508 GPS ELEVATION: 332 m (1091 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.
- Accuracy to Datum 3.05 meters 2.
- Data Collection Method: 3.

Survey grade GPS : Post Processed Differential Real-Time Differential X\_\_\_\_: Post Processed Differential Mapping Grade GPS \_\_\_\_ х

**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.

#2180 Signature