

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 1, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 1 47-041-02156-00-00

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: 1

Farm Name: HARRIS, R. G.

U.S. WELL NUMBER: 47-041-02156-00-00

Vertical Plugging Date Issued: 5/1/2018

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.

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

 Date:
 April 10, 2018

 Operator's Well

 Well No.
 150221 R.G. Harris #1

 API Well No.:
 47
 041 - 02156

4704 102156 6

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

	OFFICE OF OIL AND GAS					
4)	APPLICATION FOR A PE	RMIT TO PL	JG AND ABANDON	Ī		
7)		quid Injection _	Waste Dis	posal:		
	If Gas, Production X Or Undergroup	ound storage _	Deep	Shallow _	X	
5)	NO. ACCOUNT DOCUMENT AND THE PARTY OF THE PA	Smiths Run				
	Location: Hackers Creek County: District:	Lewis	Quadrangle:	Weston		
6)	Well Operator EQT Production Company 120 Professional Place	_ 7) Desi Addr	· ·	son Ranson		
	Address: Bridgeport, WV 26330	_ Addi	ess: 120 Profession Bridgeport, W			
8)		100	ging Contractor:	385 500		
	Oil & Gas Barry Stolling Name: 28 Conifer Drive	_ Nam Addr	e: <u>HydroCarbon We</u> ess: PO BOX 995	ell Service		
	Address: Bridgeport WV 26330	-	Buckhannon, W\	/ 26201		
	See Attachment for details and procedures			RECE Office of Of APR 2:3 WV Depar Environments	il and Gas 3 2018 rtment of	
	OFFICE	E USE ONLY				
	Notification must be given to the district oil and gar Back Work order approved by inspector All MSL	s inspector 24 h	ours before permitted	work can comme	nce.	

PLUGGING PROGNOSIS

4704 021566

Harris, R.G. #1 (150221)

Lewis Co. WV District, Hackers Creek API # 47-041- 02156

BY: Craig Duckworth

DATE: 1/03/18

CURRENT STATUS:

13 3/8" csg @ 42' 8 5/8" csg @ 2933' (215 sks) 4 ½" csg @ 4476' (175sks)

Elevation @ 1181'

TD: 4517'

Fresh Water @ 80' Coal @ None Reported Saltwater @ 1270' Gas shows @ 4288' Oil @ None Reported Perforated @ 4383'-4363'

- 1. Notify State Inspector, Barry Stollings, Ph. 304-552-4194 48 hrs. Prior to commencing operations.
- 2. Check TD w/wireline
- 3. TIH w/tbg to 4476', set 400'C1A cement plug from 4476' to 4076'. (Bottom hole Plug & Perfs 4383'-4363')
- 4. TOOH w/tbg to 4076' gel hole 4076' to 3000'.
- 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 3000' set 200' C1A cement plug from 3000' to 2800', (4 1/DECSIVED cut).

 Office of Oil and Gas
- 8. TOOH w/tbg to 2800' gel hole 2800' to 1620'.
- 9. TOOH w/tbg to 1620', set 200' C1A cement plug 1620' to 1420'. APR 2 3 2018
- 10. TOOH w/tbg to 1420' gel hole from 1420' to 1300'.
- 11. TOOH w/tbg to 1300', set 200' C1A cement plug, 1300' to 1100'(Pleval Papartment of 1181' & SW @ 1270')

 Environmental Protection
- 12. TOOH w/tbg to 1100' gel hole from 1100' to 980'.
- 13. TOOH w/tbg to 980, set 200' C1A cement plug, 980' to 780 (9 5/8" csg @ 933')

OK Jum 5/1/2018

14. TOOH w/tbg to 780' gel hole from 780' to 200'. 47 0 4 1 0 2 1 5 6

15. TOOH w/tbg to 200', set 200' C1A cement plug, 200' to 0 (13 3/8" @ 42')

16. Erect monument with API#, Date plugged, EQT

17. Reclaim location and road to WV-DEP specifications.

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Office of Oil and Gas

APR 2:3 2018

WV Department of Environmental Protection OG-10 Rev. - 9-71





STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS CIVISION

Oil and Gas Division

Weston 15' Quadranglo Weston 71' Permit No. Lew-2156		RECORD	18	Rotary_x Cable Recycling_ Water Floor Disposal	Gas x Comb. Storage
Company NRM Petroleum Corpora	tion	Casing and	11-11		
Address Box 190, Glenville, W.	<u>Va. 26351</u>	_	Used in	Left	Cement fill up .
Farm Robert G. & Betty J. Harr	Lecres 60	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Smith Run		Size			
Well No. 1	Elev	20-16		1 1	
District Hackers Creek County	Levis	Cond.	1	1 1	
The surface of tract is owned in fee by_		13-69"3/8	42	42	60 sks
Same		9 5/8		 	OU SES
Address Weston, W. Va.		8 5/8	933	933	945 4
Mineral rights are owned by Same		7		1-222	215 sks
		5 1/2			
Drilling Commenced 2-26-78		4 1/2	4476	4476	125 -1.
Drilling Completed 3-5-78		3		13379	175 sks
Initial open flow 17M cu. ft.	bbls.	2			
rinal production 581M cu. ft. per day	/bbls.	Liners Used		 	
Well openhrs. before tes	1. 1700# RP.				
Well treatment details:		Attach copy of	cementing reco	ed.	
Frac. Benson with 5	00 gal, HCL.	10.000# 80/1	00. 40.000	1 20/60	
in 784 bbl. water			,, 000,	20/40	
			^		
Coal was encountered at	Fee	l	Inches		
Fresh water 80°	Feet	Salt '	Water 1	2701	Feet
Producing Sand Benson		Depti	h 4	363-4383	- 15 holes
		7			
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water * 1	Remarks
No.		 			
No record Red Rock & Shale	0	42	1		
Sand	42	497	Water 80)1	
Sand & shale	497 589	589	[
Sand	910	910 976			
Sand & shale	976	1140			
Sand	1140	1158			
Shale Sand	1158	1200			
Shale & sand	1200	1262			
Sand	1262	1370	לי stream	water 1	270 '
Shale & sand	1370 1398	1398			
Sand	1456	1456 1500			
Shale & lime	1500	1527			
Little Lime	1527	1550			
Pencil Cave	1550	1570	P	ECEIV	ED
Big Lime Injun	1570	1620			
Shale & saud	1620	1754	Office	of Oil a	and Gas
Sand & shale	1754	l 1970 i		-· -· •	
					ina das
Shale sandy	1970	2300			
Sand & shale (5th)	1970 2300	2300 2396	ΔI	PR 2:3 2	
	1970	2300	Al	PR 2 3 2	

(over)

WV Department of Environmental

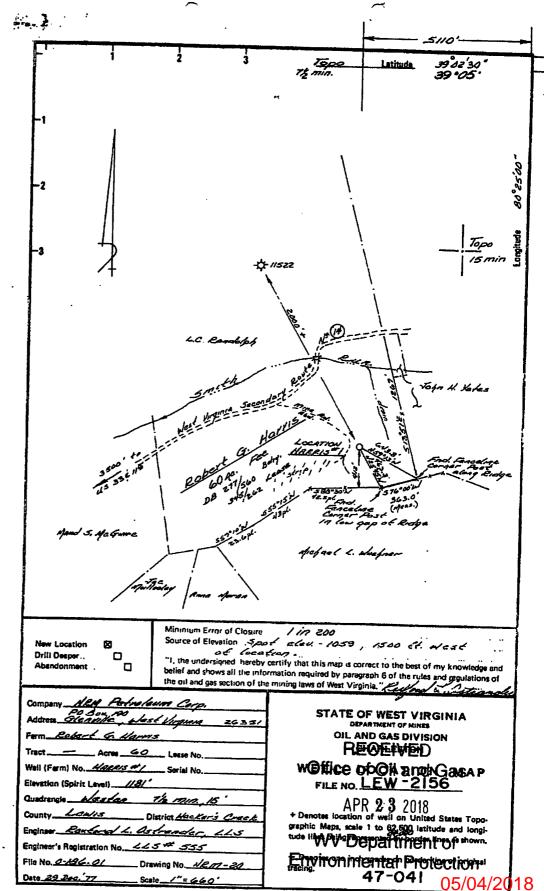
^{*} Indicates Electric Log tops in the remarks section.

Formation Color Hard or Soft	Top Feet /2	Bottom Feet	Oil Gus or Water . Remarks
Shale & siltstone Shale Benson Shale & siltstone Total Depth	2493 3460 4360 4386	3460 4360 4386 4517	Gas check 4288° ~ 11 MCFPD
			FOF = 17 MCFPD
			·
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		O	ffice of Oil and Gas
		\	APR 23 2018
).		Envi	VV Department of ronmental Protection

APPROVED NRM Petroleum Corporation Country Gene Haney, Cons. Geol.

(Tith)

05/04/2018



WW-4-A	
Revised 6/07	

1) Date: April 10, 2018											
2) Operator's We			7	04 9	9	0	2	4	5	6	P
150221 R.G. H	larris #	1		VT	ρ	V	ffsun	3	J	O	•
3) API Well No.:	_47	041	-	02156	-04						
	State	County		Permit							

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 Own	er(s) to be served:	5) (a) Coal Operator:	
(a) Name	Melinda Lee and Jason Drummond	Name None	
Address	764 Smith Run Rd.	Address	
	Weston WV 26452		
(b) Name	Betty Jo Harris	(b) Coal Owner(s) with Declaratio	<u>n</u>
Address	764 Smith Run Rd.	Name	
	Weston WV 26452		
		Address	
(c) Name		Name	
Address		Address	
6) Inspector	Barry Stolling	(c) Coal Lessee with Declaration	- 19 - 19
Address	28 Conifer Drive	Name None	
	Bridgeport WV 26330	Address	
Telephone	304-552-4194		

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
OFFICIAL SEAL BY:	Erin Spine
NOTARY PUBLIC ITS:	Regional Land Supervisor
REBECCA L. WANSTREE Address:	2200 Energy Drive
PO BOX 280	Canonsburg PA 15317
BRIDGEPORT, WV 28330 My complession expires April 07, 2020 Telephone:	(304) 848-0035
Subscribed and sworn before me this 18	day of April , 2018 RECEIVED
Delecca & Wanstreet	Notary Publicifice of Oil and Gas
My Commission Expires: 4-7-	2020

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Would 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 a Department of depprivacyofficer@wv.gov.

Environmental Protection

SURFACE OWNER WAIVER

47 04 1021560

Operator's Well Numbe 150221 R.G. Harris #1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW 4-A

The well operator named on page WW4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Division of Environmental Protection
601 57th Street, SE
Charleston, WV 25304
(304) 926-0450

(304) 9	20-0450		
Time Limits and methods for filing comments.	The law requires these	e materials to be served on or before	
the date the operator files for this Application. You have	· · · · · · · · · · · · · · · · · · ·	after the filing date to file your	
comments. Comments must be filed in person or received in	the mail by the Chief's o	office by the time stated	
above. You may call the Chief's office to be sure of the date.	Check with your postm	aster to ensure adequate	
delivery time or to arrange special expedited handling. If you	have been contacted by	y the well operator and you	
have signed a "voluntary statement of no objection" to the pla	anned work described in	these materials, then the	
permit may be isued at any time.		,	
Comments must be in writing. Your comments	must include your name	e, address and telephone number,	
he well operator's name and well number and the approxima	ite location of the propos	sed well site including district and county	v
rom the application. You may add other documents, such as	s sketches, maps or pho	tographs to support your comments.	,
The chief has the power to deny or condition a well work p	permit based on commer	nts on the following grounds:	
1) The proposed well work will constitute a hazard to the	safety of persons.		
2) The soil erosion and sediment control plan is not adeq	uate or effective:		
2) Domago would appear to mublish, armed bands as a second			

- Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories.

The office maintains a list of water testing laboratories which you can

hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For a Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURA	L PERSON	FOR EXECUTION BY A CORPORATION, ETC				
	Date	Name				
Signature		 By	·			
		Its				
		Signature	Date			

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The well operator named on the attached page WW-4(B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inpsector is notified. Which date shall not be less than five days after the dat on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of OII & Gas

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on the obverse side of this application

Note: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned operator/ well location has examined this propose objection to the work proposed to be do complied with all applicable requirement regulations.	ne at this location, _l	der. The undersigned has not no provided the well operator has
Date:	By:	

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WV Department of Environmental Protection

WW-9 Revised 5/16

Page	of 4 7	0	4	10	2	1	5	6	P
2) Opera	tor's Well	Nu	mber	•			-		
150221	R.G. Harr	is #	1	, ide					
3) VDI W	/oll No :	#	04	1	021	56	-0		

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

FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name:	EQT PRODUCTION COMPANY	c	P CODE:
Watershed (HUC 10):	Smiths Run	Quadrangle	e: Weston
Do you anticipate using mo	re than 5,000 bbls of water to compl X_ No	ete the proposed well work?	Yes No_X_
If so, please describe antici Will a synthetic liner be use	· · · · · · · · · · · · · · · · · · ·	Formation Is so, what ml.?	20 ml
Proposed Disposal Method		15 SO, WHAT III. !	20 1111
——————————————————————————————————————	Land Application (if selected pro		9-GPP)
	Underground Injection (UIC Per)
X	Reuse (at API Number Vario)
X	Off Site Disposal Permit (Suppl	y form WW-9 for disposal loc	ation. See attachment)
	Other: (Explain		
Will closed loop system be	used ? If so, describe:		
Drilling medium anticipated	for this well? (vertical and horizonta	al)? Air, freshwater, oil based,	etc
	type? Synthetic, petroleum, etc.		
Additives to be used in drilling	ng medium?		
Drill cuttings disposal metho	od? Leave in pit, landfill, remove off	site etc	
If left in pit and plan	n to solidify what medium will be used?		
Landfill or offsite na	ame/permit number?		
	notice to the Office of the Oil and Gas of	3	lā l
	y. The notice shall be provided within 2-	4 nours of rejection and the perm	littee shall also disclose
where it was properly disposed			mariver.
on April 1, 2016, by the Office provisions of the permit are applicable law or regulation application form and all attached attached application form and all attached application application of the information, I be penalties for submitting false	and agree to the terms and condition of the West Virgin enforceable by law. Violations of arcan lead to enforcement action. In the characteristic characteri	ia Division of Environmental Iny term or condition of the gel my inquiry of those individual ccurate and complete. I am a ty of fine or imprisonment.	Protectifice understand actions neral permit and/or other APR 2 3 2018
Company Official Signa	79	•	
Company Official (Type	ed Name) Erin Spine		
Company Official Title	Regional Land Supervisor		
Subscribed and sworn be	efore me this 18	day of April	, 2018
My Commission Expires	a & warnet	eet_No	otary Public OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA REBECO 5/04/201

LEGEND

	Spri	ing	Wet Spot
Road ========	0—	→	4
Planned Fence	Drain Pipe with siz	e in inches	Water Way
//_/	<u> </u>		← ← ←
Existing Fence	Stream	٠ –	Cross Drain
Open Ditch	Artificial Filter S	Strin	Rock
··•		•	& & & & & & & & & & & & & & & & & & &
North	Building	Water well	Drill site
N		W	\oplus
Pit with Cut Walls	Pit with Compacted	Walls Area of	Land Application of Pit Waste
£	- Juin		
		-	
_	: Acres Disturbed: 1± Tons/acre or to correct to pH	Prevegetation	on pH
e <u>3</u> ilizer (10-20-20) or equiva	Tons/acre or to correct to pH alent 1/3		on pH
e <u>3</u> ilizer (10-20-20) or equiva	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed.	6.5	
e <u>3</u> ilizer (10-20-20) or equiva	Tons/acre or to correct to pH alent 1/3	6.5	
e <u>3</u> ilizer (10-20-20) or equiva	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed.	6.5	lbs/acre (500 lbs minimum
e 3 ilizer (10-20-20) or equivalent 2 Area I Seed Type	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed. SEED MIXTURES	6.5 ton	lbs/acre (500 lbs minimum
e 3 ilizer (10-20-20) or equivalent 2 Area I Seed Type Fescue te Clover	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed. SEED MIXTURES Ibs/acre 40 5	6.5 ton Seed Type	Ibs/acre (500 lbs minimum Area II Ibs/acre
e3 ilizer (10-20-20) or equivalent2 Area I Seed Type Fescue e Clover	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed. SEED MIXTURES Ibs/acre 40	6.5 ton Seed Type Red Fescue	Ibs/acre (500 lbs minimum Area II Ibs/acre
e3 ilizer (10-20-20) or equivalence2 Area I Seed Type Fescue	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed. SEED MIXTURES Ibs/acre 40 5	6.5 ton Seed Type Red Fescue	Ibs/acre (500 lbs minimum Area II Ibs/acre
ilizer (10-20-20) or equiva ch2	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed. SEED MIXTURES Ibs/acre 40 5	6.5 ton Seed Type Red Fescue	Ibs/acre (500 lbs minimum Area II Ibs/acre 15
e3 illizer (10-20-20) or equivalent2 Area I Seed Type Fescue te Clover ual Rye ACH:	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed. SEED MIXTURES Ibs/acre 40 5 15 and proposed area for land application	6.5 ton Seed Type Red Fescue Alsike Clover	Area II Ibs/acre 15 5
e3 ilizer (10-20-20) or equival2 Area I Seed Type Fescue e Clover ual Rye ACH: ring(s) of road, location, pit	Tons/acre or to correct to pH alent 1/3 Tons/acre or hydroseed. SEED MIXTURES Ibs/acre 40 5 15 and proposed area for land application	6.5 ton Seed Type Red Fescue Alsike Clover	Area II Ibs/acre 15 5 RECEIVED Office of Oil and C

EQT Production Water plan Offsite disposals

4704102156P

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

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Office of Oil and Gas

APR 2 3 2018

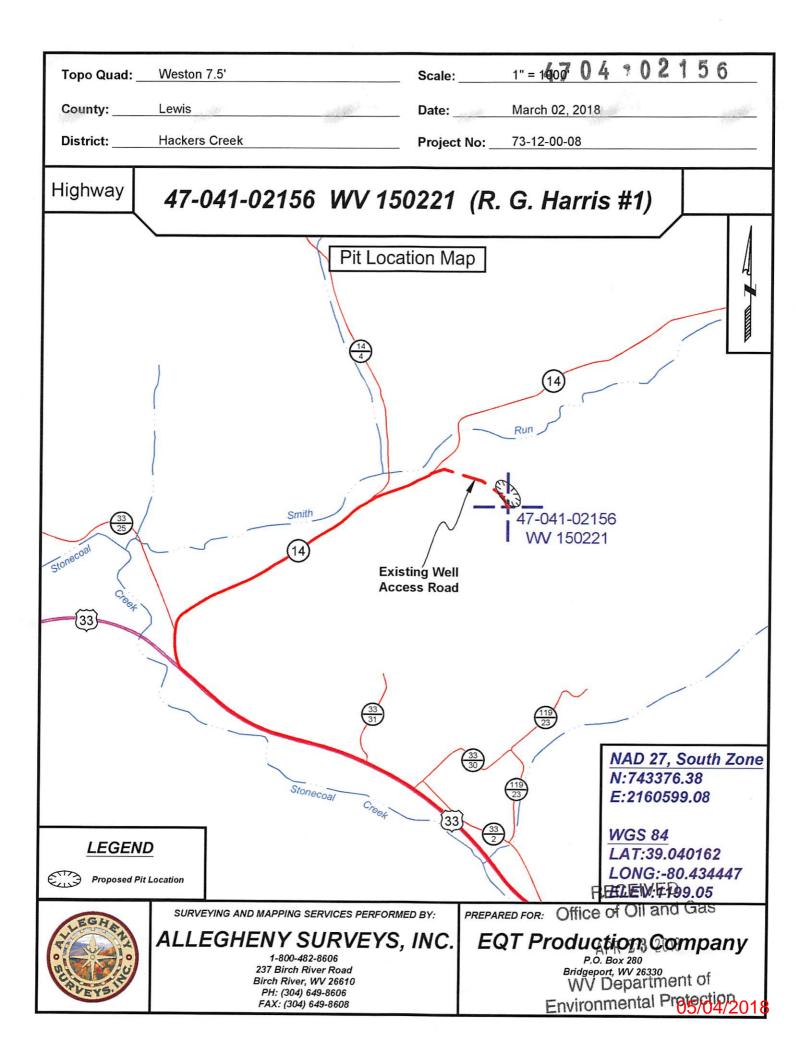
WV Department of Environmental Protection

Scale: 1" = 2004 7 0 4 1 0 2 1 Topo Quad: Weston 7.5' County: ____ Lewis Date: March 02, 2018 District: Hackers Creek Project No: 73-12-00-08 Topo 47-041-02156 WV 150221 (R. G. Harris #1) Pit Location Map **Existing Well** Access Road 47-041-02156 WV 150221 NAD 27, South Zone N:743376.38 E:2160599.08 WGS 84 **LEGEND** LAT:39.040162 LONG:-80.434447 Proposed Pit Location RECENTED 199.05 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR Office of Oil and Gas ALLEGHENY SURVEYS, INC. EQT Production Company

AP.O. Box 280

Bridgeport, WV 26330 1-800-482-8606 237 Birch River Road Birch River, WV 26610 WV Department of PH: (304) 649-8606 FAX: (304) 649-8608 Environmental Prote05/04/2018

Topo Quad:	Weston 7.5'	Scale:	1" = 2000'	04 102 156
County:	Lewis	Date:	March 02, 2018	04 "02 130
District:	Hackers Creek	Project No:	73-12-00-08	
ale	47-041-02156 WV 150)221 (R.	G. Harri	s #1) Topo
anville	GREEN ME AU 1500 1500 7355 1400	100	0,80,413	
erlah	THE ST. THE WALL OF THE ST. AND THE ST. AN	Smith Cem	1200-	Smith Run Cem
Weston S	Stones and Crisch Co to		1400	B ELLIOT RD
TOWN RUN	HOPE STATION RD	33 119	Peterson Cem	NAD 27, South Zon N:743376.38 E:2160599.08 WGS 84 LAT:39.040162 LONG:-80.434447
SGHRAN ON THE PARTY OF THE PART	SURVEYING AND MAPPING SERVICES PERFORME ALLEGHENY SURVEYS, 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608		P.O	ELEV:1199.05 Etion Company Box 280 ort, WV 26330 05/04/201





POTENTIAL WATER SAMPLE DATA SHEET

CLIENT:	EQT PRODUCTION COMPANY	
LEASE NAM	E AND WELL No. R. G. Harris #1 - WV 150221 - API No. 47-041-02156	_

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 693 +/- Owner: Betty Jo Harris		
Address: 42 4B Trailor CT, Weston, WV 26452	Phone No.	
Comments:		
Site: 2 Spacing: 556 +/- Owner: Betty Jo Harris		
Address: 42 4B Trailor CT, Weston, WV 26452	Phone No.	19
Comments:		
Site: 3 Spacing: 915 +/- Owner: Betty Jo Harris		
Address: 42 4B Trailor CT, Weston, WV 26452	Phone No.	
Comments		

RECEIVED Office of Oil and Gas

APR 2 3 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 fux: 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

Topo Quad:	Weston 7.5'	Scale: 1" = 2000'	
County:	Lewis	Date: March 02, 20	018
District:	Hackers Creek	Project No:73-12-00-08	<u> </u>
Water	47-041-02156 WV 15	0221 (R. G. Har	ris #1)
unter Jago	3 Potential Water S	ources within 1000'	
	[140]	1400 1400	
anville	3		
	1500	CORD HIS	
erlah			Smith 1300
		Cem	Run Cem
LI'NN AVE	47-041 WW 1:		1400
	Site 1 No. 1	Site 3	1200
Weston	Smith Run chith Run		1500
Company of the Compan	1100	HOSEMAN AND 1300	200
140		HOFFMAN AND	
SB 1500 1500	Stone coal Creek So		ELLIOT RD
	Profession and Profes	No.	NAD 27, South Zone
TOWN RU	20-5	1200	N:743376.38 E:2160599.08
	HOUNGE THE THE THE THE THE THE THE THE THE TH	33 119 Peterson	WGS 84
1 James Gran	100	Cem -	LAT:39.040162 LONG:-80.434447
	SURVEYING AND MAPPING SERVICES PERFORM	ED BY: PREPARED FOR:	of Oil and Gas
A THE WAY	ALLEGHENY SURVEYS,	INC. EQT Prod	of Oil and Gas uction Company PRO 20 20 18 deeport. WV 26330
W. VEYS.	237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606	500	3-1
	FAX: (304) 649-8608	Environ	Department of mental Prote <mark>05//0</mark>4/2018



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

API: 47-041-02156 WELL NO.:	WV 150221 (R. G. Ha	arris #1)	
FARM NAME: Robert G. Harris			
RESPONSIBLE PARTY NAME: E			
COUNTY: Lewis			
QUADRANGLE: Weston 7.5'			
SURFACE OWNER: Melinda Lee &			
ROYALTY OWNER: Betty Jo Harris			
UTM GPS NORTHING: 4321386			
UTM GPS EASTING: 548945	GPS ELEVATI	ON: 365 m (1199 ft)	
Mapping Grade GPS X : Po	North, Coordinate United MSL) — meters. est Processed Differentialost Processed Differentialost Processed Differentialost Processed Differentialost Processed Differentialraphy map showing	igned API number on the ordinates that do not meet nits: meters, Altitude: tial tial the well location ice of Oil	IVED I and Gas 3 2018
Stock	15#21BA	WY Depar a⊭nvironmenta	rtment of al Protection
Signature	Title	Date	