

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 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Thursday, November 03, 2016 WELL WORK PERMIT Vertical / New Drill

EQT PRODUCTION COMPANY 120 PROFESSIONAL PLACE BUILDING II BRIDGEPORT, WV 26330

Re: Permit approval for 518147

47-095-02393-00-00

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: 518147 Farm Name: EDDY, GILBERT F.

U.S. WELL NUMBER: 47-095-02393-00-00

Vertical / New Drill

Date Issued: 11/3/2016

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

	r: EQT	Produc	tion Company	306686	Tyler	Ellsworth	Porters Falls 7.5
				Operator ID		District	Quadrangle
2) Operator's We	ell Numb	er:	518147		3) Elevation:	1258'	
4) Well Type: (a)) Oil	or Ga	as X				
(b)	If Gas:	Produ	iction X / Un	derground Sto	orage		
		Deep	p/ \$	Shallow X			
5) Proposed Targ 6) Proposed Tota 7) Approximate f 8) Approximate s	al Depth: fresh wat	: <u>698</u> ter strata	<u>7' </u>	Formation at , 391',505'	Proposed Tar Proposed Tota	get Depth: _ al Depth: _O	6763' nondaga
9) Approximate o	coal sear	m depth:	s: _446'				
10) Approximate	void de	oths,(coa	al, Karst, other):	None Re	ported		- DNH 9-25-16
11) Does land co	ontain co	al seam	s tributary to ac	tive mine? _	None Report	ted	9-24-16
12) Describe prop	osed wel	l work ar	nd fracturing meth	nods in detail (a	attach additiona	I sheets if nee	eded)
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See Attached		ent					0/1/
		ent					ν(ν
See Attached			ASING AND TU	BING PROGE	ΣΔΜ		7/1/
See Attached		CA	ASING AND TU	BING PROGE FOOTAGE	RAM INTERVALS	CEMEN	NT
See Attached 13) TYPE SP	PECIFICA	CA	THE RESERVE OF THE PARTY OF THE			CEMEN Fill -up (Cu.	
See Attached 13) TYPE SP	PECIFICA Size	<u>CA</u> ATIONS		FOOTAGE	INTERVALS	Carlotte Committee	Ft.)
See Attached 13) TYPE SP Conductor	PECIFICA Size	CA ATIONS Grade	Weight per ft	FOOTAGE For Drilling	INTERVALS Left in Well	Fill -up (Cu. 28 Cu. F	Ft.)
See Attached 13) TYPE SP Conductor	PECIFICA Size 13 3/8"	<u>CA</u> ATIONS <u>Grade</u> A500	Weight per ft 37.0 #/ft	FOOTAGE For Drilling 40'	INTERVALS Left in Well 40'	Fill -up (Cu.	Ft.)
See Attached 13) TYPE SP Conductor Fresh Water	PECIFICA Size 13 3/8"	<u>CA</u> ATIONS <u>Grade</u> A500	Weight per ft 37.0 #/ft	FOOTAGE For Drilling 40'	INTERVALS Left in Well 40'	Fill -up (Cu. 28 Cu. F	Ft.) Ft. CTS. J. W
See Attached 13) TYPE SP Conductor Fresh Water Coal	PECIFICA Size 13 3/8" 9 5/8"	CA ATIONS Grade A500 A500	Weight per ft 37.0 #/ft 32.3 #/ft	FOOTAGE For Drilling 40' 605'	Left in Well 40' 605'	Fill -up (Cu. 28 Cu. F 257 Cu.	Ft.) Ft. CTS. 9 W
See Attached 13) TYPE SP Conductor Fresh Water Coal Intermediate Production	PECIFICA Size 13 3/8" 9 5/8"	CATIONS Grade A500 A500	Weight per ft 37.0 #/ft 32.3 #/ft 20.2 #/ft	FOOTAGE For Drilling 40' 605'	Left in Well 40' 605'	Fill -up (Cu. 28 Cu. F 257 Cu. I	Ft.) Ft. CTS. 9 W
See Attached 13) TYPE SP Conductor Fresh Water Coal Intermediate Production	PECIFICA Size 13 3/8" 9 5/8" 7" 4.5"	CATIONS Grade A500 A500 WT-80	Weight per ft 37.0 #/ft 32.3 #/ft 20.2 #/ft 11.6 #/ft	FOOTAGE For Drilling 40' 605'	Left in Well 40' 605' 3132' 6987'	28 Cu. F 257 Cu. I 607 Cu.	Ft.) Ft. CTS. 9 W
See Attached 13) TYPE SP Conductor Fresh Water Coal Intermediate Production Tubing	PECIFICA Size 13 3/8" 9 5/8" 7" 4.5"	CATIONS Grade A500 A500 WT-80	Weight per ft 37.0 #/ft 32.3 #/ft 20.2 #/ft 11.6 #/ft	FOOTAGE For Drilling 40' 605' 3132' 6987'	Left in Well 40' 605' 3132' 6987' -30'Above Top Perf.	Fill -up (Cu. 28 Cu. F 257 Cu. 607 Cu. 490 Cu. I N/A	Ft.) Ft. CTS. 9 W
See Attached 13) TYPE SP Conductor Fresh Water Coal Intermediate Production Tubing Liners	PECIFICA Size 13 3/8" 9 5/8" 7" 4.5" 2 3/8"	CATIONS Grade A500 A500 WT-80	Weight per ft 37.0 #/ft 32.3 #/ft 20.2 #/ft 11.6 #/ft	FOOTAGE For Drilling 40' 605' 3132' 6987'	Left in Well 40' 605' 3132' 6987'	Fill -up (Cu. 28 Cu. F 257 Cu. 607 Cu. 490 Cu. I N/A	Ft.) Ft. CTS. 9 W



Proposed Well Work and Fracturing Methods

WW-2B Form Attachment

12) Describe proposed well work and fracturing methods in detail:

- Drill and complete a new vertical well in multiple formations. Drill the vertical to an approximate depth of 6987', not more than 100' into the Onondaga. Run 4.5" Casing and Cement.
- Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 7700 psi, maximum anticipated treating rates are expected to average approximately 60 bpm. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per zone.

MUST NOT PRODUCE ONONOMER.

RECEIVED

OCT 0 4 2016

Office of Charm's Gas

WV Dopartment of Environmental Protection

11/04/2016

WW-2A (Rev. 6-14)

depprivacyofficer@wv.gov

1). Date: 9/21/2016

518147 2.) Operator's Well Number

State County

Permit 47-095 3.) API Well No .: 02393

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	ner(s) to be served:	,	5) (a) Coal Op	erator
(a) Name	Gilbert F. Eddy		Name	
Address	5761 Gorrells Rur Middlebourne, W		Address	<u> </u>
(b) Name	Rosella Murner	7 20 149	- (h) Cool O	upor(a) with Declaration
Address	5495 Gorrells Rur	Pood		wner(s) with Declaration
Addiess			Name	Gilbert F. Eddy
	Middlebourne, W\	/ 26149	Address	5761 Gorrells Run Road
(a) Nama			Lance of the	Middlebourne, WV 26149
(c) Name			Name	
Address	-		Address	
6) Inspector	Justin Snyder		(c) Coal Le	essee with Declaration
Address	200 Florence	F. ST.	Name	
	Lumberport, WV 2	26386	Address	
Telephone	(681) 313-6995			
		ERSONS NA	MED ABOVE TA	AKE NOTICE THAT:
Included is the	ne lease or leases or ot	her continuing	contract or contra	acts by which I hold the right to extract oil and gas
OR				
X Included is the	ne information required	by Chapter 22	2, Article 6, Section	n 8(d) of the Code of West Virginia (see page 2)
I certify t	that as required under	Chapter 22-6	of the West Virgi	inia Code I have served copies of this notice and
application, a loc	ation plat, and accomp	anying docum	ents pages 1 throu	ugh <u>18</u> on the above named parties by:
	Personal Service			-1)
O-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	Publication (Notice		tal receipt attache	a)
I have re	ad and understand Cha	enter 22-6 and	d 35 CSP 4 and	I agree to the terms and conditions of any permit
issued under this	application.	apter 22-0 and	35 CON 4, and	agree to the terms and conditions of any permit
		at I have pers	onally examined	and am familiar with the information submitted on
this application for	orm and all attachment	ts, and that ba	ased on my inquir	y of those individuals immediately responsible for
obtaining the info	rmation, I believe that t	the information	is true, accurate	and complete.
I am awa	are that there are signif	icant penalties	for submitting fal	se information, including the possibility of fine and
imprisonment.			FOT Deadwell	
***********************			EQT Production	
	OFFICIAL SEAL E OF WEST VIRGINIA	By:	Victoria J. Roa	ark MW
	Pamela Sykes	Addraga:	Permitting Sul 115 Profession	pervisor
	PO Box 280	Address.	Bridgeport, W	
Mu Come	idgeport, WV 26330 nission Expires Aug. 24, 2022	Telephone:	(304) 848-007	
000000000000000000000000000000000000000	211111111111111111111111111111111111111		vroark@eqt.cor	
Subscribed and s	sworn before me this	2/ day of		2016
1/	// / -		- Capi	DC1 D 4 2016
Mu Commission I	ande 141-			Notary Public
My Commission E	A	8-3	4-22	WWW. The share between the
Oil and Gas Privacy				VVV Disparamental Brotostian
with statutory or reg	nation may be disclosed to Julatory requirements, incli	other State ager uding Freedom o	icles or third parties f Information Act req	ess and phone number, as a part of our regulatory duties. in the normal course of business or as needed to comply uests. Our office will appropriately secure your personal please contact DEP's Chief Privacy Officer at

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan:
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Lease #870398			
Gilbert F. Eddy (Original Lessor)	Petroedge Energy, LLC	Min. Pd. 1/8	387/113
Petroedge Energy, LLC	Statoil USA Onshore Propert	ties Inc	406/147
Statoil USA Onshore Properties Inc	EQT Production Company		539/239

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- · WV Division of Highways
- U.S. Army Corps of Engineers
- · U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appropriate authority before the affected activity is initiated.

Well Operator:

EQT Production Company

By: Its:

Permitting Supervisor

WW-2B1	1
(5-12)	

Well No.	518147	
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West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name

Fairway Laboratories, Inc.

Sampling Contractor

Fairway Laboratories, Inc.

Well Operator

EQT Production Company

Address

115 Professional Place

Bridgeport, WV 26330

Telephone

(412) 553-5700

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

SURFACE OWNER ATTACHMENT MOICHTES YOU ARE SELECTING ALL B WATER SOURCES TO SAMPLE & ANALYZE. SURFACE



Notice to Surface Owner or Resident

Vertical Shallow Well #518147 - Tyler County

The initial mapping review of the area surrounding the proposed vertical shallow well site identified the below listed Surface Owner or Resident that is potentially utilizing a water well or spring for human consumption, domestic animals, or other general use and of which is located within a 2,000' radius of the proposed vertical shallow well site. The following Surface Owner or Resident will be notified of the opportunity to request a water sample and analytical testing should it be necessary.

Surface Owner or Resident Notified:

Owner:

Gilbert F. Eddy

Address:

5761 Gorrells Run Road

Middlebourne, WV 26149

Phone:

304-758-4569

Parcel #:

02-16-27

Comments:

Water Well identified near home.

Owner:

Rosella Murner

Address:

5495 Gorrells Run Rd

Middlebourne, WV 26149

Phone:

304-758-4245

Parcel #:

02-16-37

Comments:

Water Well identified near home.

Owner:

Leo W. & John S. Wiker

Address:

231 S. Main St, Suite 205

Greensburg, PA 15601

Phone:

724-837-6712

Parcel #:

02-16-39.1

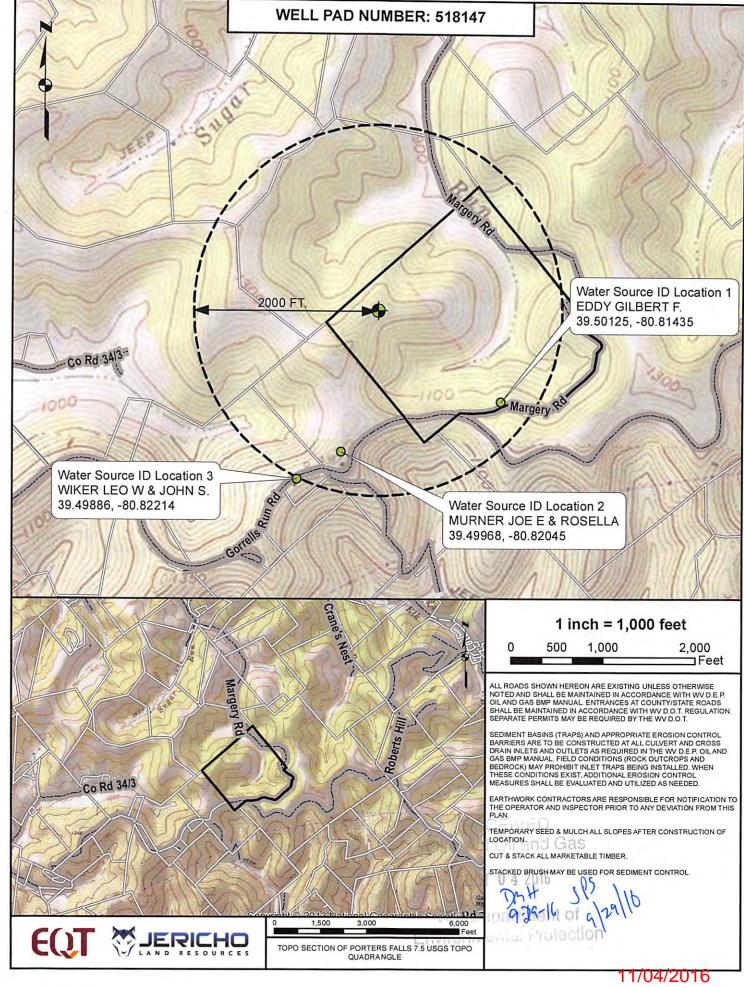
Comments:

Water Well on parcel is being utilized by neighbors, Chester & Bonnie Hair, parcel #02-16-38.1. The Hairs' have a submersible pump. The Hairs' can be contacted at 304-758-2959 and their address is 5178 Gorrells Run Road, Middlebourne, WV, 26149. The Hairs' requested the well on Wiker be tested.

metterveD Office of Quand Gas

DCT 0 4 2016

WW Department of Environmental Protection



API Number 47 -	095 _	
Operator's Well No.	518147	

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)	Outlet Middle Island Creek Quadrangle Porters Falls 7.5'
Do you anticipate usi	ng more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used?	Yes No
If so, please	describe anticipated pit waste: N/A
Will a synth	etic liner be used in the pit? Yes No If so, what ml.? N/A
Proposed Dis	sposal Method For Treated Pit Wastes:
_	Land Application (if selected provide a completed form WW-9-GPP)
	Underground Injection (UIC Permit Number 0014, 8462, 4037 Reuse (at API Number Various
	Off Site Disposal (Supply form WW-9 for disposal location)
-	Other (Explain
Will closed loop syste	Yes, the closed loop system will remove drill cuttings from the drilling fluid. The embe used? If so, describe: drill cuttings are then prepared for transportation to an off-site disposal facility.
Drilling medium antic	cipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. See Attached
-If oil based,	what type? Synthetic, petroleum, etc. Synthetic Mud
Additives to be used i	n drilling medium? See Attached
Drill cuttings disposa	Imethod? Leave in pit, landfill, removed offsite, etc. Landfill
-If left in pit	and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or o	ffsite name/permit number? See Attached List
Permittee shall provid West Virginia solid w where it was properly	e written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any aste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose disposed.
on April 1, 2016, by t provisions of the perm or regulation can lead I certify und application form and a the information, I beli submitting false inform	I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued the Office of Oil and Cas of the West Virginia Department of Environmental Protection. I understand that the fit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law to enforcement action. The permit and permi
Company Official Sign	
Company Official (Ty	Parallia Committee Committ
Company Official Title	Office of Oli and Gas
Subscribed and sworn	Notation of the State of West Virginia
My commission expire	S 8-24-22 Environment Po Box 280
	My Commission Expert Aug 24, 2022

oposed Revegetation 7	Treatment: Acres Disturbe	d No Additional	Preveg etation pH	
Lime3	Tons/acre or to c	orrect to pH6.5		
Fertilizer type_	Granular 10 - 20 -10			
Fertilizer amour	nt1/3	lbs/acre		
Mulch_2		Tons/acre		
		Seed Mixtur	<u>es</u>	
	Temporary		Perman	ent
Seed Type	lbs/acre		Seed Type	lbs/acre
KY-31	40		Orchard Grass	15
Alsike Clover	5		Alsike Clover	5
Annual Rye	15			
wided). If water from t W), and area in acres,	, pit and proposed area for the pit will be land applied, of the land application are volved 7.5' topographic sh	, provide water volu a.	less engineered plans includi me, include dimensions (L, V	ng this info have V, D) of the pit, ar
ps(s) of road, location vided). If water from t W), and area in acres, otocopied section of in	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includi me, include dimensions (L, V	ng this info have V, D) of the pit, ar
ps(s) of road, location vided). If water from t W), and area in acres,	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includi me, include dimensions (L, V	ng this info have V, D) of the pit, ar
ps(s) of road, location vided). If water from to W), and area in acres, otocopied section of in Approved by:	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includi me, include dimensions (L, V	ng this info have V, D) of the pit, ar
ps(s) of road, location vided). If water from to W), and area in acres, otocopied section of in Approved by:	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includine, include dimensions (L, V	ng this info have V, D) of the pit, ar
ps(s) of road, location vided). If water from to W), and area in acres, otocopied section of in Approved by:	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includine, include dimensions (L, V	ng this info have V, D) of the pit, an
ps(s) of road, location vided). If water from to W), and area in acres, otocopied section of in Approved by:	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includine, include dimensions (L, V	ng this info have V, D) of the pit, ar
ps(s) of road, location vided). If water from to W), and area in acres, otocopied section of in Approved by:	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includi me, include dimensions (L, V	ng this info have V, D) of the pit, ar
ps(s) of road, location vided). If water from to W), and area in acres, otocopied section of in Approved by:	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includi me, include dimensions (L, V	ng this info have
ps(s) of road, location vided). If water from to W), and area in acres, otocopied section of in Approved by:	the pit will be land applied, of the land application are	, provide water volu a.	less engineered plans includine, include dimensions (L, V	ng this info have V, D) of the pit, an



Drilling Medium & Additives to be Used

WW-9 Form Attachment

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.

 Air is used to drill the top-hole sections of the wellbore (surface, intermediate, and pilot). Water based mud may be necessary depending on hole conditions to stabilize and drill the intermediate section. The pilot hole will be drilled with either air, water based mud, or oil based mud.

Additives to be used in drilling medium?

Air – biodegradable oil lubricant, detergent, defoaming, water.

 Water based mud – barite, viscosifer, alkalinity control, lime, filtration control, deflocculates, biodegradable oil lubricant, defoaming, walnut shell, salt, x-cide, carbonates.

 Oil based mud – synthetic base oil, emulsifier, salt, lime, viscosifer, alkalinity control, filtration control, deflocculates, biodegradable oil lubricant, defoaming, carbonates.

> Dn.4 5-25-16

> > HEGEWED
> > Office of Oil and Gas

OCT 0 4 2016

WV Department of Engagemental Protection



EQT Production Water Plan - Offsite Disposals for Marcellus Wells

WW-9 Form Attachment

CWS TRUCKING INC.

P.O. Box 391 Williamstown, WV 26187 740-516-3586 Noble County / Noble Township Permit # 3390

LAD LIQUID ASSETS DISPOSAL INC.

226 Rankin Road Washington, PA 15301 724-350-2760 724-222-6080 724-229-7034 fax Ohio County / Wheeling Permit # USEPA WV 0014

TRI COUNTY WASTE WATER MANAGEMENT, INC.

1487 Toms Run Road Holbrook, PA 15341 724-627-7178 Plant 724-499-5647 Office Greene County / Waynesburg Permit # TC-1009

Waste Management - Meadowfill Landfill

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

BROAD STREET ENERGY LLC

37 West Broad Street, Suite 1100 Columbus, Ohio 43215 740-516-5381 Washington County / Belpre TWP. Permit # 8462

TRIAD ENERGY

P.O. Box 430 Reno, OH 45773 740-516-6021 Well 740-374-2940 Reno Office Jennifer Nobel County / Jackson Township Permit # 4037

KING EXCAVATING CO.

Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV WW-9- GPP Rev. 5/16

P	age1	of	2
API Number 47	095	-	
Operator's Well No.	51814	7	

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

	CROONDWATER FR	OIECTION PLAN
Operator Name:	QT Production Company	
-	Outlet Middle Island Creek	Quad: Porters Falls 7.5'
Farm Name:		
List the procedu groundwater.	res used for the treatment and discharge of flu	ids. Include a list of all operations that could contaminate th
N/A		
2. Describe proced	ures and equipment used to protect groundwat	er quality from the list of potential contaminant sources above
N/A		
3. List the closest discharge area.	water body, distance to closest water body,	and distance from closest Well Head Protection Area to th
N/A		
:		
4. Summarize all ac	ctivities at your facility that are already regulat	ed for groundwater protection.
N/A		

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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API Number 47 -	095				
Operator's Well No	518	147			

Operators well No. 310141
N/A
Provide a statement that no waste material will be used for deicing or fill material on the property.
N/A
Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.
N/A
Provide provisions and frequency for inspections of all GPP elements and equipment.
N/A
nature: 2-21-11
e: 9-21-14

