

west virginia department of environmental protection

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

November 19, 2015

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-10303123, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

Operator's Well No: 513492

Farm Name: MILLER, VIRGINIA

James Martin

Chief /

API Well Number: 47-10303123

Permit Type: Horizontal 6A Well

Date Issued: 11/19/2015

API Number:	

PERMIT CONDITIONS

47 10 3 0 3 1 2 3

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. 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 § 22-6A-5a (12), 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, 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.

WW - 6B (4/15)

4710303123

API NO.	<u>47</u>		103	٠.	
ОРЕПАТО	A WEI	LL NO			513492
Well Pac	l Nan	ne:			PNG102

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

1) Well Operator:	EQT Producti	on Company		306686	103	05	548
				Operator ID	County	District	Quadrangle
2) Operator's Well	Number:		513492		Well Pad Name	:F	NG102
3) Farm Name/Sur	face Owner :	Emma	a Virginia Mille	er Heirs	Public Road Ac	cess:	RT 250
4) Elevation, curre	nt ground:	1,146.0	_ Elevat	ion, proposed p	oost-construction:	1,178.0	
5) Well Type: (a) G	ias <u> </u>	Oil	Un	derground Stor	age		
C	Other						
(b)) If Gas:	Shallow	•	Deep			
	ŀ	Horizontal	•				
6) Existing Pad? You	es or No:	no					DAH 6-15-15
7) Proposed Targe					•	•	
Target formation is	Marcellus at a	depth of 692	1 with the anticip	pated thickness to I	pe 49 feet and anticip	pated target press	ure of 2620 PSI
8) Proposed Total	Vertical Depth:				7052	 -	
9) Formation at To	tal Vertical Dept				Onondaga		· · · · · · · · · · · · · · · · · · ·
10) Proposed Tota	Measured Dep	th:			10362		
11) Proposed Horiz	zontal Leg Leng	th			2,895		
12) Approximate Fi		•			498, 523		
13) Method to Dete				·	By offset we	lls	
14) Approximate Sa					1577, 1873		
15) Approximate C				·	502, 724, 896		
16) Approximate D						None repo	orted
17)Does proposed		ntain coal sea	ns directly ov	erlying or			
adjacent to an				Y	es	No	
(a) If Yes, prov	ide Mine Info:	Name:					
		Depth:					
		Seam:					
		Owner:					

Page 1 of 3

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JUN 1 7 2015

WV Department of Environmental Protection

WW	-	6B
(4/15	5)	

4710303123

API NO.	<u>47</u>		0	-	
OPERATO	R WEI	L NO.			513492
Well Pad	d Nar	ne:			PNG102

CASING AND TUBING PROGRAM

18)

TYPE	Size	New	Grade	Weight per ft.	FOOTAGE: For	INTERVALS:	CEMENT:
	<u>(in)</u>	<u>or</u> Used		<u>(lb/ft)</u>	Drilling (ft)	<u>Left in Well</u> (ft)	Fill- up (Cu.Ft.)
Conductor	20	New	MC-50	81	40	40	38 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	673	673	596 C.T.S.
Coal	-	-	_	_	_	_	_
Intermediate	9 5/8	New	A-500	40	3,080	3,080	1,214 C.T.S.
Production	5 1/2	New	P-110	20	10,362	10,362	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

DAH 6-15-15

	·				V1717 6-19	5-15	
TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	Wall Thickness	Burst Pressure (psi)	Anticipated Max. Internal	<u>Cement</u> <u>Type</u>	Cement Yield (cu. ft./k)
	 		(in)		Pressure (psi)		
Conductor	20	24	0.375	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2184	* See Note 2	1.21
Coal		<u> </u>					
Intermediate	9 5/8	12 3/8	0.395	3,950	3160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10112	-	1.27/1.86
Tubing							
Liners							

Packers

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at

least 500' above the shallowest production zone, to avoid communication.

Note 2: Reference Variance 2014-17. (Attached)

Page 2 of 3

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WV Department of Environmental Protection 11/20/2015

WW - 6B	API NO.	47	103 -	03123
(10/14)	OPERATOR	WELL NO.		513492
	Well Pad	Name: _		PNG102
19) Describe proposed well work, including the drilling and plugging back of any pilot hole:				
Drill and complete a new horizontal well in the marcellus formation. The vertical well to go down to an appro-	ximate depth	of 7052', ta	g the onondaga	
not more than 100', run logs, then plug back with a solid coment plug to an approximatly 5327 then kick off th	latnosinori er	leg into the	Marcellus	
formation using a slick water frac.				
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure are	nd max rat	e:		
Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fracturing is sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including				
gelling agent, gel breaker. Iriction reducer, blocide, and scale inhibitor), referred to in the industry as a "slickwater"			J, 	
anticipated internal casing pressure is expected to average approximately 8500 psi, maximum enticipated treating		·		
approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of wat vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.	ler per stage.	Sand size:	3	
Tary Hall to Hook to Estate Healt. We have approximately 200,000 pounds of said par stage.				
21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):		73.2	 28	
				
Area to be disturbed for well pad only, less access road (acres): Describe centralizer placement for each casing string.	3	39.52		
Surface: Bow spring centralizers - One at the shoe and one spaced every 500'.				
• Intermediate: Bow spring centralizers—One cent at the shoe and one spaced every 500'.				
Production: One spaced every 1000' from KOP to Int csg shoe				
24) Describe all cement additives associated with each cement type. Surface (Type 1	Cement): 0	-3% Calciur	n Chloride	
Used to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief				
Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formation	ns to speed t	he setting o	of cement	
slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid	or cement	slurry (not	filtrate)	
to a thief zone.				
Production:		RECEN	VED	
Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.	- Un	ice of Oil a	ind Gas	
0.3% CFR (dispersant). Makes cement easier to mix.	Nr)∨ n 5	0045	
Tall (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.		9 11 9	7015	
0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.	WV	Departme	ent of	
60 % Calcuim Carbonate. Acid solubility.	PANAGOL	mental Pr	otection	
0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.				
25) Proposed borehole conditioning procedures. <u>Surface: Circulate hole clean (Approximately 30</u>	. 45 minutos) catating P		
				
one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue			nai 5	
minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring continuous c				
and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates wa			ean up.	
Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until	l cuttings din	ninish at		
surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If	f foam drillir	ng, to enha	ance	
hole cleaning use a soap sweep or increase injection rate & foam concentration.				
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes be	ottoms up vo	olume.		
Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of	cuttings co	ming acro	ss	
the shakers every 15 minutes.	=	=		

^{*}Note: Attach additional sheets as needed.

513492 (PNG102H1) Wetzel West Virgina Woll Namo Elevation KB: County Target Prospect Azimuth Vertical Section 0' 4 7 Hole Size 24" - 20" Conductor at 40" Bit Size 17.5° - 500' 523' Fresh Water Base TOC @ Surface 13 3/8", MC-50, 54.5# @ 673' ft MD Bit Size 12.375* 1,000' -**— 1,000**° 1,500' -**— 1,500**° 1,783' Maxton 2,000' — 2,019' Big Lime **—** 2,000° 2,256' Weir 2,446 -Gantz 2,500' - 2,572' -Fifty foot - 2,500 2,645' -Thirty foot 2,672' Base Red Rock 2,678' -Gordon 2,783' -Forth Sand 3,000' - 2,947' -Bayard TOC & Surface **— 3,000**° 3,080' Int. csg pt 9 5/8", MC-50, 40# @ 3,080' ft MD Bit Size 8.5* 3,363' -Warren 3,489' -Speechley 3,500' -- 3,500 4,000' ---- 4,000 DMH 4,363' -Riley 6-15-15 4,500' -- 4,500' 5,000' - 4,974' -Benson **-** 5,000' 5,342' -Alexander KOP = 5,327" ft MD 5,500' ---10 Deg DLS **- 5,5**00° 6,000' ---- 6,000 6.520' -Sonyea 6.659 -Middlesex 6,500' — 6,700' -Genesee Land @ 7,467' ft MD **—** 6,500° 6,782 -Geneseo 6.921' ft TVD -Tully 6,828' -Hamilton 5 1/2", P-110, 20# 10,362' ft MD 6,904' -Marcellus 6,921' ft TVD 6,952' Onondaga 7,000' — — 7.000° **RECEIVED** 7,500' — **—** 7,500°

Office of Oil and Gas

JUN 17 2015

WV Department of **Environmental Protection** Well 513492 (PNG102H1) EQT Production Pine Grove

West Virgina

Wetzel

WV Department of Environmental Protection

Office of Oil and Gas RECEIVED JUN 1 7 2035

TVD Depth (feet) 0'	Formatic Tops (TV		- 4111	TITE				Hold Size	Casing Type	Size (inches)	Wt (ppf)/Grade
250'								24	Conductor	20	81#/MG-50
500	Base Fresh Water	920		114							
750								17 1/2	Surface	13 3/0	54.5#/J-55
1,000			(1000')								
1,250				14							
1,500			- 11	11							
1,750				11							
2,000	Big Lime	1703 - 1037 2019 - 2068	(5000,)	11							
2,250	-Gantz	2256 - 2301 2445 2500									
2,500	-Fifty foot -Thirty foot	2572 2500 2645 - 2681									
2,750	Base Red Rock -Garrieri	2672 2678 - 2746	- 11								
3,000	-Forth Sand -Bayard	2789 - 2791 2947 - 2090	(3000')								
3,250	lot. cag pt -Warren	3383 - 3400	A	M.				1236	Intermediate	9 5/8	40#/A-500
3,500	-Speechley	7489 - 3495									
3,750											
4,000											
4,250	Alloy	1367 - 4301	1								
4,500	-2001	14201 - 14191	- 1								
4,750	-Banxun	4074 - 5106	1								
5,000		49/2 - 5100									
5,250	Alexonder	5342 - 5309	- 3		2						
5,500	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.012 - 0.1119	- 1	KOP @ 5,3	27	DMH 6-15	- 51				
5,750			- 1			1.16	-15				
6,000	-Sanyen -Mideltyam	6659				6.1.					
6,250	-Gonosee	6659 - 6700 6700 : 6782						-			
6,500	-Gonosea -Tully	6702 - 6007 6807 5828									
6,750	-Hamilton Marcellus top	6620 6904	POST OFFICE AND ADDRESS OF THE PARTY OF THE		Vivered and a second		220				
7,000	Target Inside Marcellus Marcellus Bottom	6921	SALIDA VALUE CA	Marie Company	Western State Control	Actor Comments and a	5705	H 1/2	Production Casing	5 1/2	20#/P-110
7,250			Land curv	7,467" II M		Est. TD @	6,921' II 10,362' II	TVD MD			
Proposed Well V Unil and complete	Vork; te a new horizontal well in th	oe Marcellus tonnation	1		2,895° ff La	teral					

Proposed Well Work:
Drill and complete a new horizontal wall in the Marcellus formation.
The vertical drill to go down to an approximate depth of 7052'.
Tag the Onondaga not more than 100', run logs, then plug back with a solid cement plug to approximately 5327'.
Then kick off the herizontal leg into the Marcellus formation using a slick water frac.

152 Azimuth

Vertical Section 2980

WW-9 (2/15)

	Page	1	01	2
API No. 47	10	3 -		0312:
Operator's \	Well No	1,		51349

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

Fluids/Cuttings Disposal & Reclamation Plan

Operator Name	EQT Production Company	OP C	Code	306686	
Watershed (HUC10)	Fishing Creek	Quadrangle	Pi	ine Grove	
Do you anticipate using r	more than 5,000 bbls of water to co	mplete the propose	ed well work?	Yes x	No
Will a pit be used ? Yes:	X No:				
	ribe anticipated pit waste:	flowback v	vater & residua	al solids	
Will a synthetic lin	ner be used in the pit? Yes		If so, wha		60
	psal Method For Treated Pit Wastes Land Application Underground Injection (U	s: IIC Permit Number)
	Reuse (at API Number		/arious)
	Off Site Disposal (Supply f Other (Explain	arm vv vv-9 for dist	osai location)		1
Will closed loop system b				e drilling	
Air is used to drill the top-hole sections of	ed for this well (vertical and horizon the wellbore (surface, informediate, and pilot). Water bact hole curve, and lateral sections will be disliked with eath	sed mud may be necessary de	epending on hele condi		
- If oil based, w	what type? Synthetic, petroleum, etc.		Synthetic m	ud	
Additives to be used in dr	illing medium? Air biodegradable	oil lubricant , delergent, delos	ming, water. Water b	ased mud - Barit	a, viscositer,
alkalinity control, lime, filtration of	control, deflocculates, biodegradable oil lubri				
	oil, emulsifier, salt, lime, viscosifer, alkalinit	y control, filtration control	ol, deflocculates,		
biodegradable oil lubricant, defi	paming, carbonates.				
Drill cuttings disposal me	ethod? Leave in pit, landfill, remove	d offsite, etc.	La	indfill	
	plan to solidify what medium will be used? (0			n/a	
 Landfill or olfsit 	e name/permit number?	See A	ttached List		
Permittee shall provide writte any West Virginia solid wast disclose where it was proper	en notice to the Office of Oil and Gas of a facility. The notice shall be provided by disposed.	any load of drill cutti within 24 hours of rej	ngs or associate ection and the p	ed waste reje ermittee sha	ected at
on August 1, 2005, by the Office	and agree to the terms and conditions of the of Oil and Gas of the West Virginia Departs orceable by law. Violations of any term or comment action.	ment of Environmental	Protection, Lunde	rstand that the	B
application form and all attachme	aw that I have personally examined and am ents thereto and that, based on my inquiry o	of those individuals imm	ediately responsi	ble for obtainir	ng
the information, I believe that the submitting false information, incli	e information is true, accurate, and complete uding the possibility of fine or imprisonment.	e. I arp-aware that there	are significant pe	nalties for	
Company Official Signatur Company Official (Typed I Company Official Title	Name)	Victoria J. Rosermitting Superviso			
Subscribed and sworn bef	fore me this day o	Octobe		. 20 10	5_
My commission expires	4-7-20)	Not	ary Public	

4710303123

	reatment: Acres Dist	urbed 73.28	Prevegetation pH6.2
Lime	3 Tons/a	acre or to correct to pH	6.5
Fertilize type	Granular		
Fertilizer Amount	1/3	Ibs/acre (500 lbs minimum)	
Mulch	2	Tons/acre	
		Seed Mixtures	
	oorary		Permanent
Seed Type (Y-31	lbs/acre 40	Seed Type Orchard Grass	lbs/acre 15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
	n,pit and proposed a	area for land application.	
Orawing(s) of road, location Photocopied section of inve	olved 7.5' topograph	ic sheet.	
Orawing(s) of road, location Photocopied section of inve	olved 7.5' topograph	ic sheet.	
Prawing(s) of road, location of inverse processing the processing of the processing	olved 7.5' topograph	ic sheet.	
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	olved 7.5' topograph	ic sheet.	
Orawing(s) of road, location Photocopied section of involution Plan Approved by: Comments:	olved 7.5' topograph	ic sheet.	

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WV Department of Environmental Protection

11/20/2015



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west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 (304) 926-0450 (304) 926-0462 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.gov

March 18, 2014

Nabors Completion & Production Services Company 1380 Route 286 Hwy E #121 Indiana PA 15701

Re: Cement Variance Request

Dear Sir or Madam,

This agency is approving a variance request for the cement blend listed below to be used on surface and coal protection strings for the drilling of oil and gas wells in the state of West Virginia. The variance cannot be used without requesting its use on a permit application and approval by this agency:

- Type 1 (2% Calcium Chloride-Accelerator, 0.25% Super Flake-Lost Circulation, 5.2% Water, 94% Type "1" Cement)

If you have any questions regarding this matter feel free to contact me at 304-926-0499, ext. 1653.

White I

Environmental Resources Specialist / Permitting

Promoting a healthy environment.

Received
Office of Oil & Gas
JUN 0 4 2015



west virginia department of environmental protection

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

DEFORE THE OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA 47 10 3 1 2 3

IN THE MATTER OF A VARIANCE FROM)	ORDER NO.	2014 - 17
REGULATION 35 CSR § 4-11.4/11.5/14.1)		
AND 35 CSR § 8-9.2.h. 4/5/6/8 OF THE)		
THE OPERATIONAL)		
REGULATIONS OF CEMENTING OIL)		
AND GAS WELLS)		

REPORT OF THE OFFICE

Nabors Completion & Production Services Co. requests approval of a different cement blend for use in cementing surface and coal protection casing of oil and gas wells.

FINDINGS OF FACT

- 1.) Nabors Completion & Production Services Co. proposes the following cement blend:
 - 2% Calcium Chloride (Accelerator)
 - 0.25 % Super Flake (Lost Circulation)
 - 94% Type "1" Cement
 - 5.20 % Water
- Laboratory testing results indicate that the blend listed in Fact No.1 will achieve a 500
 psi compressive strength within 6 hours and a 2,435 psi compressive strength within 24
 hours.

Promoting a healthy environment.

CONCLUSIONS OF LAW

Pursuant to Articles 6 and 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter embraced in said notice, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to 35 CSR § 4-11.5 and 35 CSR § 8-9.2.h.8 the Chief of the Office of Oil and Gas may approve different cement blends upon the well operator providing satisfactory proof that different cement types are adequate.

ORDER

It is ordered that Nabors Completion & Production Services Co. may use the cement blend listed in Findings of Fact No.1 for the cementing of surface and coal protection casing of oil and gas wells in the State as may be requested by oil and gas operators. The waiting time on the cement blend shall be 8 hours. The cement blend shall be mixed in strict accordance with the specifications for each blend and weight measurements made on-site to assure the cement slurries meet the minimum weight specifications. A sample shall be collected and, that a hours the cement is not set up, additional time will be required. Nabors Completion & Production Services Co. shall keep a record of cement blend jobs in which the cement blend approved under this order is to be used and made available to the Office of Oil and Gas upon request.

Dated this, the 18th day of March, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION OF THE STATE OF WEST VIRGINIA

James Martin, Chref Office of Oil and Gas



May 19, 2015

Mr. Gene Smith West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Casing on Well (PNG102)

Dear Mr. Smith,

EQT is requesting the 13-3/8" surface casing be set at 673' KB, 150' below the deepest fresh water. We will set the 9-5/8" intermediate string at 3080' KB, 50' below the base of the Bayard formation.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark

Permitting Supervisor

Enc.

Reseived Office of Gil & Gas JUN 0 4 2015

4710303123

EQT Production Water plan Offsite disposals for Marcellus wells

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

Waste Management - Northwestern Landfill

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

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.

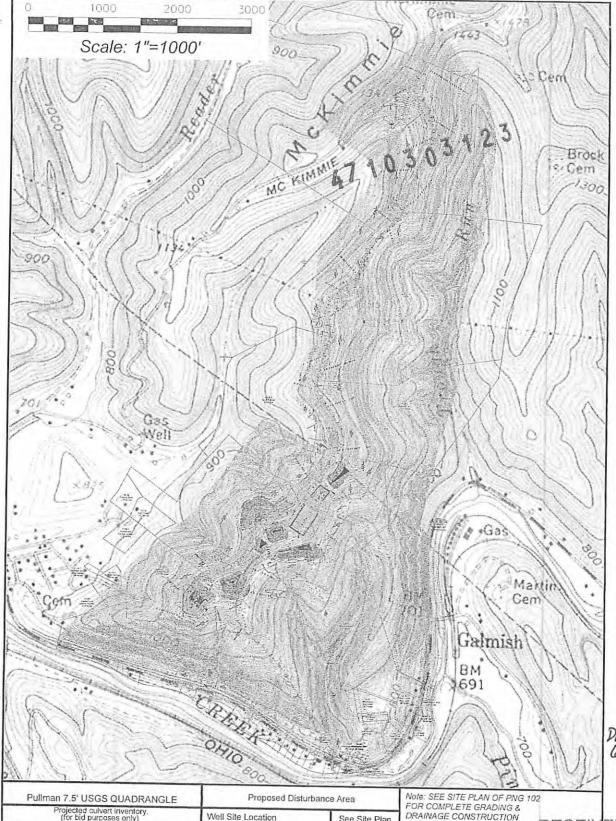
Advanced Waste Services 101 River Park Drive New Castle, Pa. 16101 Facility Permit# PAR000029132

DM17 6-15-15

RECEIVED
Office of Oil and Gas

JUN 1 7 2015

WV Department of Environmental Protection 11/20/2015



Pullman 7.5' USGS QUADRANGLE

Projected culvert inventory. (for bid purposes only)

Well Site Location

See Site Plan

15" minimum diameter culverts

See Site Plan

Proposed Access Road

See Site Plan

24" minimum diameter culverts

See Site Plan

Approximate Total Disturbance

See Site Plan

DRAWN BY: Dale Tomlin PS

DATE
April 24, 2015

PREMINDEFILE NO. 218-10

DRAWNING FILE NO

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608

WW-9

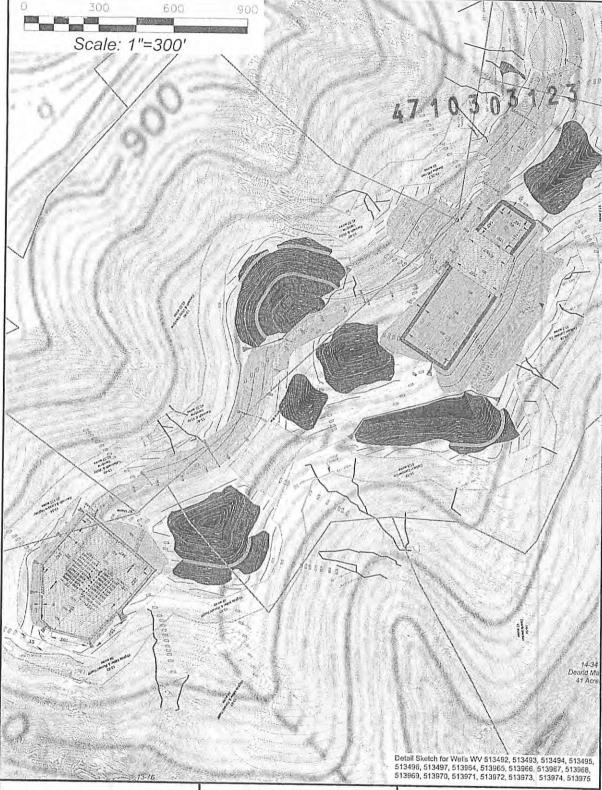
237 Birch River Road P.O. Box 438 Birch River, WV 26610 Note: SEE SITE PLAN OF PNG 102
FOR COMPLETE GRADING &
DRAINAGE CONSTRUCTION
INCLUDING EROSION & SEDIMENRECEIVED
CONTROL DETAILS, ETC
Office of Oil and Gas

JUN 1 7 2015

WV Department of Environmental Protection 11/20/2015

PNG 102 H1-513492 PNG 102 H2-513493 PNG 102 H3-513494 PNG 102 H4-513495 PNG 102 H5-513496 PNG 102 H6-513497 PNG 102 H7-513964 PNG 102 H8-513965 PNG 102 H9-513966 PNG 102 H10-513967 PNG 102 H11-513968 PNG 102 H12-513969 PNG 102 H13-513970 PNG 102 H14-513971 PNG 102 H15-513972 PNG 102 H16-513973 PNG 102 H17-513974 PNG 102 H18-513975

10303123 H6-513497 PAGE 2 OF 2



Pullman 7.5' USGS QUADRANGLE

Proposed Disturbance Area

Projected culvert inventory (for bid purposes only)

Well Site Location

See Site Plan

15" minimum diameter culverts

See Site Plan

Proposed Access Road

See Site Plan

24" minimum diameter culverts

See Site Plan

Approximate Total Disturbance

PRAWN BY:

Dale Tomlin PS

Date
April 24, 2015

PRAWN BY:
Date
April 24, 2015

PRAWN BY:
Date
April 24, 2015

PRAWN BY:
Date
April 24, 2015

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

Birch River Office Phone: (304) 649-8606 Fax: (304) 649-8608 237 Birch River Road P.O. Box 438 Birch River, WV 26610 Note: SEE SITE PLAN OF PNG 102
FOR COMPLETE GRADING &
DRAINAGE CONSTRUCTION
INCLUDING EROSION & SEDIMENT
CONTROL DETAILS, ETC. RECEIVED

Office of Oil and Gas

JUN 1 7 2015

WV Department of Environment 4/720/20195



Where energy meets innovation: 30303123 Site Specific Safety Plan

EQT PNG 102 Pad

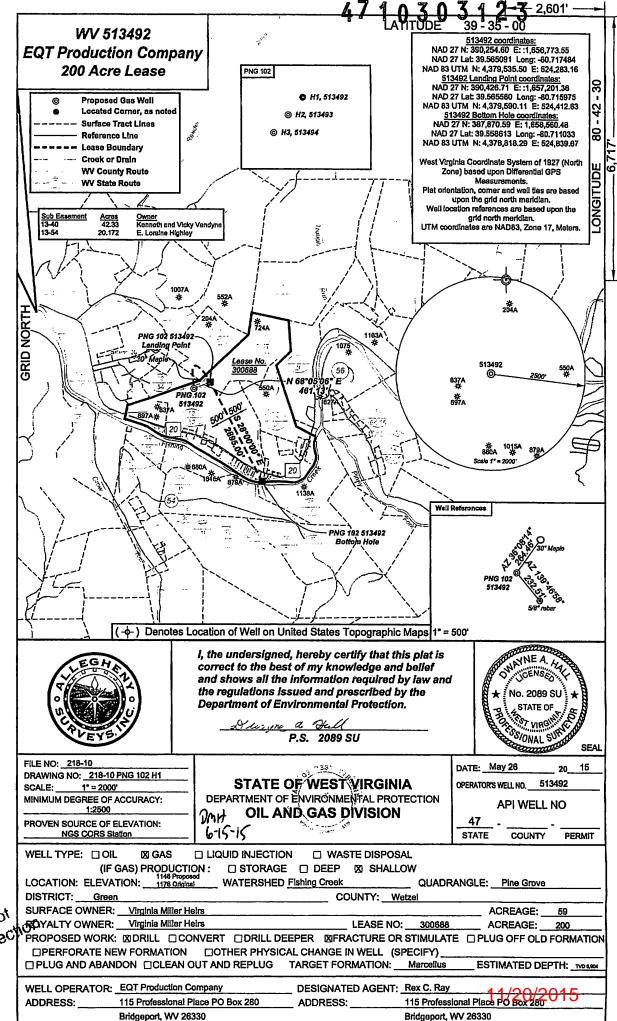
Pine Grove

Wetzel County, WV

513492	For Wells	
EQT Production	Date Prepared:	May 18, 2015 WV Oil and Gas Inspector
Title 6-2-15 Date	-	Title 6-15-15 Date RECEIVED Office of Oil and Ga

WV Dept/20/2015 **Environmental Protection**

JUN 1 7 2015



Office of Oil and Gas
JUN 17200

WV Department of
Environmental Project

Anticipated Frac Additives Chemical Names and CAS numbers

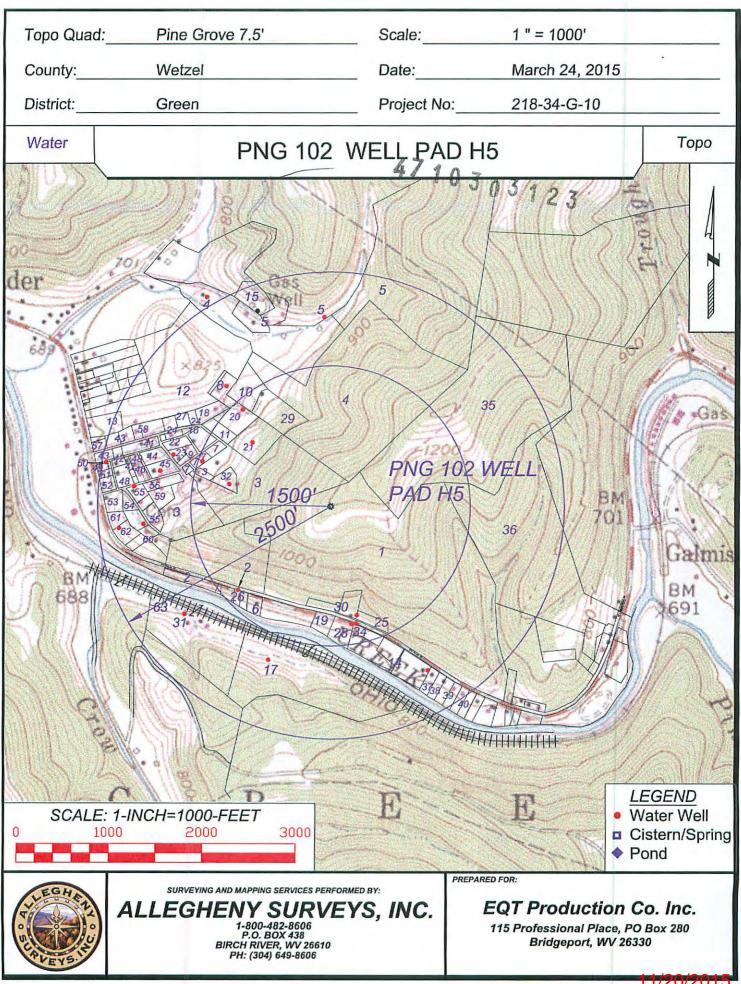
<u>Material</u>	<u>Ingredient</u>	471030	CAS Number
Water			
Sand	Hydrotreated light petroleum	ı distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphor		64742-47-8
Biocide	Ammonium chloride		81741-28-8
Scale Inhibitor	Hydrochloric Acid		12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol		7647-01 - 0
Corrosion Inhibitor	Methanol		107-19-7
Corrosion Inhibitor	Guar Gum		67-56-1
Gelling Agent	Sodium Persulfate		9000-30-0
Oxidizing Breaker	Potassium Carbonate		7775-27-1
Buffering Agent			584-08-7 ⁻

DM4 6-15-15

RECEIVED
Office of (

JUN 17 30

WV Department of Environmental Protection



INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) 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:

Lease Name or

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
300688			Min 1/8 pd	
	Jenkins Miller	Hope Natural Gas Company		LB107/56
	Hope Natural Gas Company	Consolidated Gas Supply Company		LB233/387
	Consolidated Gas Supply Company	CNG Transmission Corporation		LB66A/69
	CNG Transmission Corporation	Eastern States Oil & Gas Inc.		LB76A/270
	Eastern States Oil & Gas Inc.	Equitable Production Co.		CB13/14
	Equitable Production Co.	EQT Production Company		CB13/14

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

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

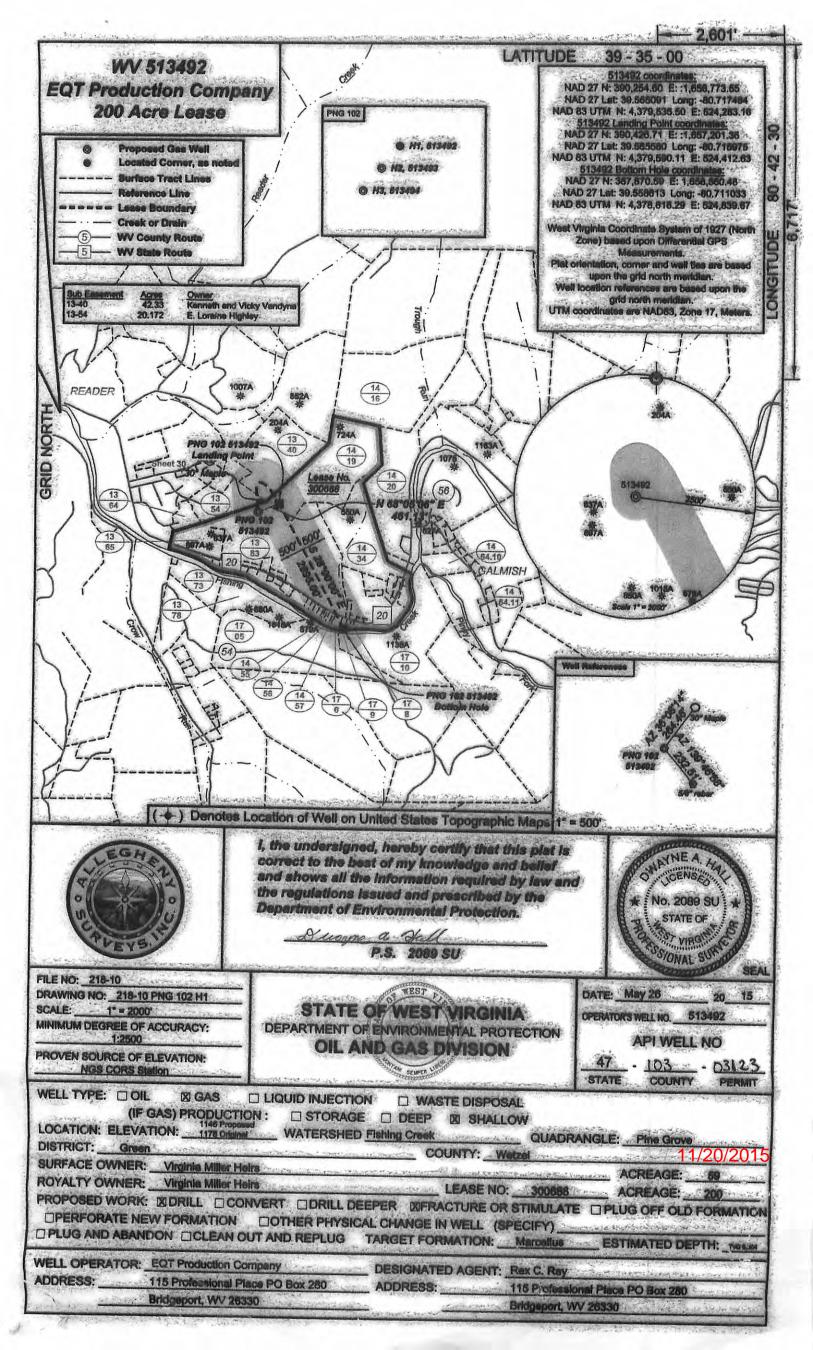
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- 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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By:
Its:

| Permitting Supervisor | Page 1 of 1 | Page 1



SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

County Clerk please also index under the following:

Anna Jane Kiger Williams, Donald L. Smith, II & Cshawn L. Smith, Harold R. Trader III, Kimberly K. Aliquo, Wilda Siburt, Martha Parsons, James T. Siburt, Paul K. Siburt, Joseph R. Moore, Jr. & Isabelle J. Moore, Celia Diane Cope, Shiben Estates, Inc., Phillip Joseph Peters, John Joseph Mensore, Esta Marie McCall, John J. Shiben, Timothy R. Shiben, Richard J. Shiben Family Trust, Loraine Highley

This SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT ("Agreement") is made the 23rd day of April, 2015, between Loraine Highley, a/k/a Lorraine Highley, a/k/a Ethel Lorraine Highley, a widow, (hereinafter "Grantor" whether one or more), whose address is P.O. Box 286 Reader, WV 26167 and EOT PRODUCTION COMPANY, (hereinafter "EQT"), whose corporate headquarters are located at 625 Liberty Avenue, Suite 1700, Pittsburgh, PA, 15222.

1. <u>Property</u>. Grantor owns that certain tract of land located in <u>Green District</u>, <u>Wetzel County</u>, West Virginia (the "Land") containing <u>20.172</u> acres, more or less, and conveyed to Grantor in Deed Book <u>230</u>, at page <u>93</u>.

Tax Map and Parcel # 05-13-54

- 2. <u>Subsurface</u>. For purposes of this Agreement, the subsurface shall be limited to the subsurface region and underground lying below the deepest economically mineable and merchantable coal seam.
- 3. Grant. In consideration of Ten Dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Grantor grants to EQT a non-exclusive, perpetual Right-of-Way and subsurface easement within and underlying the Land for the purpose of locating and maintaining one or more wellbores for the production of hydrocarbons by EQT from EQT's adjacent mineral tracts and leases. This Right-of-Way and easement shall run with the land and shall remain in force and effect until released and relinquished by EQT back to the Grantor, in writing.
- 4. Wellbores. Upon completion of any wellbore within the subsurface underlying the Land (the "Subsurface Land"), the subsurface easement in the area of the wellbore and the one hundred (100') feet on each side of the wellbore that parallels it shall become an exclusive Right-of-Way and easement in that area. The wellbore locations are generally described in the plat(s) filed with the West Virginia Department of Environmental Protection (the "DEP") for well(s): 513492, 513493 and 513494. If an as-built plat is not available from the DEP for a wellbore located within the Subsurface Land, any third-party with the right to operate within the Subsurface Land may contact EQT's land department for a copy of such as-built plat. After the date of this Agreement, EQT shall provide notice of additional wellbores located within the remaining Subsurface Land by filing an amendment, affidavit or other appropriate document.
- 5. No Surface Operations. This Agreement does not grant EQT the right to conduct any operations on the surface of the Land. No surface operations shall be conducted on the Land by EQT unless the parties enter into a separate agreement.

6. Miscellaneous Provisions.

- (a) This instrument may be executed in one or more counterparts, each of which will be deemed to be an original copy of this instrument and all of which will be deemed to comprise one single instrument.
- (b) The parties consent to the exclusive jurisdiction of either the United States District Court for the Western District of Pennsylvania or the Court of Common Pleas of Allegheny County, Pennsylvania, for any disputes or issues arising under, or in any way related to, this Agreement.
- (c) The parties agree that this Agreement shall be filed of record together with all exhibits thereto.

(d) For no additional consideration, Grantor shall execute such further documents as may be reasonably requested by EQT from time to time to effectuate the intent of this Agreement.

IN WITNESS WHEREOF, effective as of the date first above written. This Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective successors, assigns, heirs and administers and executors.

Loraine Highley

EQT PRODUCTION COMPANY

Name: John W. Damato

Title: Attorney-in-Fact

Carol 8 Hausht
MEIZEL County 10:54:25 AH
Instrument No 181835
Data Recorded 05/27/2015
Document Type R/N
Pages Recorded 3
Pages Recorded 3
Book-Page 113-572
Recording Fee \$5.00
Transfer Tax \$11.00
Additional \$26.00

STATE OF <u>WEST VIRGINIA</u>;

COUNTY OF: <u>uktzel</u>:

Before me, Justin Q. Nikon, a Notary Public, on this day personally appeared Loraine Highley, a/k/a Loraine Highley, a/k/a Ethel Loraine Highley, a widow, known to me and acknowledged to me that he executed the instrument for the purposes and consideration therein expressed as his free act and deed.

Given under my hand and seal of office this 23th day of April 2015.

My Commission expires: <u>OCA.</u> 5,2014



Notary Public

STATE OF <u>WEST VIRGINIA</u>;

COUNTY OF <u>HARRISON</u>:

Before me, holekyn Libron, a Notary Public, on this day personally appeared, John W. Damato known to me to be the Attorney-in-Fact of EQT PRODUCTION COMPANY, subscribed to the foregoing instrument, and acknowledged to me that he executed the instrument for the purposes and consideration therein expressed as his free act and deed.

Given under my hand and seal of office this 35 day of Archi. , 2015.

My Commission expires: May 16, 2004

OFFICIAL SEAL

Interp Politic Same of West Vegeting

RAFFELVIN LASTION

FOR Sevent Body

Amount, MY CHESA

By commission by EL, sept

Motary Public

Prepared by: EQT Production Company, 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222

Declaration of Consideration of Value

Given under my hand this 218th day of May , 2015

EQT PRODUCTION COMPANY

John W. Damato Attorney-In-Fact

SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT

County Clerk please also index under the following:

Anna Jane Kiger Williams, Donald L. Smith, II & Cshawn L. Smith, Harold R. Trader III, Kimberly K. Aliquo, Wilda Siburt, Martha Parsons, James T. Siburt, Paul K. Siburt, Joseph R. Moore, Jr. & Isabelle J. Moore, Celia Diane Cope, Shiben Estates, Inc.

This SUBSURFACE RIGHT-OF-WAY AND EASEMENT AGREEMENT ("Agreement") is made the 15th day of April, 2015, between Kenneth Vandyne, a/k/a Kenneth E. Vandyne and Vicky A. Vandyne, his wife, (hereinafter "Grantor" whether one or more), whose address is P.O. Box 311 Reader, WV 26167 and EOT PRODUCTION COMPANY, (hereinafter "EQT"), whose corporate headquarters are located at 625 Liberty Avenue, Suite 1700, Pittsburgh, PA, 15222.

Property. Grantor owns that certain tract of land located in Green District, Wetzel
County, West Virginia (the "Land") containing 42.33 acres, more or less, and conveyed to
Grantor in Deed Book 357, at page 204.

Tax Map and Parcel # 05-13-40

- Subsurface. For purposes of this Agreement, the subsurface shall be limited to the subsurface region and underground lying below the deepest economically mineable and merchantable coal seam.
- 3. Grant. In consideration of Ten Dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Grantor grants to EQT a non-exclusive, perpetual Right-of-Way and subsurface easement within and underlying the Land for the purpose of locating and maintaining one or more wellbores for the production of hydrocarbons by EQT from EQT's adjacent mineral tracts and leases. This Right-of-Way and easement shall run with the land and shall remain in force and effect until released and relinquished by EQT back to the Grantor, in writing.
- 4. Wellbores. Upon completion of any wellbore within the subsurface underlying the Land (the "Subsurface Land"), the subsurface easement in the area of the wellbore and the one hundred (100") feet on each side of the wellbore that parallels it shall become an exclusive Right-of-Way and easement in that area. The wellbore locations are generally described in the plat(s) filed with the West Virginia Department of Environmental Protection (the "DEP") for well(s): 513492, 513493 and 513494. If an as-built plat is not available from the DEP for a wellbore located within the Subsurface Land, any third-party with the right to operate within the Subsurface Land may contact EQT's land department for a copy of such as-built plat. After the date of this Agreement, EQT shall provide notice of additional wellbores located within the remaining Subsurface Land by filing an amendment, affidavit or other appropriate document.
- 5. No Surface Operations. This Agreement does not grant EQT the right to conduct any operations on the surface of the Land. No surface operations shall be conducted on the Land by EQT unless the parties enter into a separate agreement.

6. Miscellaneous Provisions.

- (a) This instrument may be executed in one or more counterparts, each of which will be deemed to be an original copy of this instrument and all of which will be deemed to comprise one single instrument.
- (b) The parties consent to the exclusive jurisdiction of either the United States District Court for the Western District of Pennsylvania or the Court of Common Pleas of Allegheny County, Pennsylvania, for any disputes or issues arising under, or in any way related to, this Agreement.
- (c) The parties agree that this Agreement shall be filed of record together with all exhibits thereto.

(d) For no additional consideration, Grantor shall execute such further documents as may be reasonably requested by EQT from time to time to effectuate the intent of this Agreement.

IN WITNESS WHEREOF, effective as of the date first above written. This Agreement shall inure to the benefit of and be binding upon the parties hereto and their respective successors, assigns, heirs and administers and executors.

Kenneth E. Vandyne

Vicky A. Vandyne

EQT PRODUCTION COMPANY

Budle Budle

Title: Attorney-in-Fact

Carol 8 Hausht
MEIZEL County 10:51:54
Instrument to 181834
Date Recorded (5/27/20)
Document Tyre RN
Pages Recorded 213-569
Recording Fee \$5.00
Transfer Tax \$122.00
Additional \$55.00

STATE OF <u>WEST VIRGINIA</u>

COUNTY OF: Wetze \

Before me, Justin R. Mixon, a Notary Public, on this day personally appeared Kenneth Vandyne, a/k/a Kenneth E. Vandyne and Vicky A. Vandyne, known to me and acknowledged to me that he executed the instrument for the purposes and consideration therein expressed as his free act and deed.

Given under my hand and seal of office this 16 day of 2015

My Commission expires: 04.5,2019



Notary Public

STATE OF WEST VIRGINIA:

COUNTY OF HARRISON:

a Notary Public, on this day personally appeared, <u>John W. Damato</u> known to me to be the <u>Attorney-in-Fact</u> of EQT PRODUCTION COMPANY, subscribed to the foregoing instrument, and acknowledged to me that he executed the instrument for the purposes and consideration therein expressed as his free act and deed.

My Commission expires: May 16, 2004

OFFICIAL BEAL
HISTORP Public, State of West Verylata
KATELYN L. LISTON
1206 Searce Driver
Felomerat. WV 2656. TEXN
by commission Expires May 18, TEXN

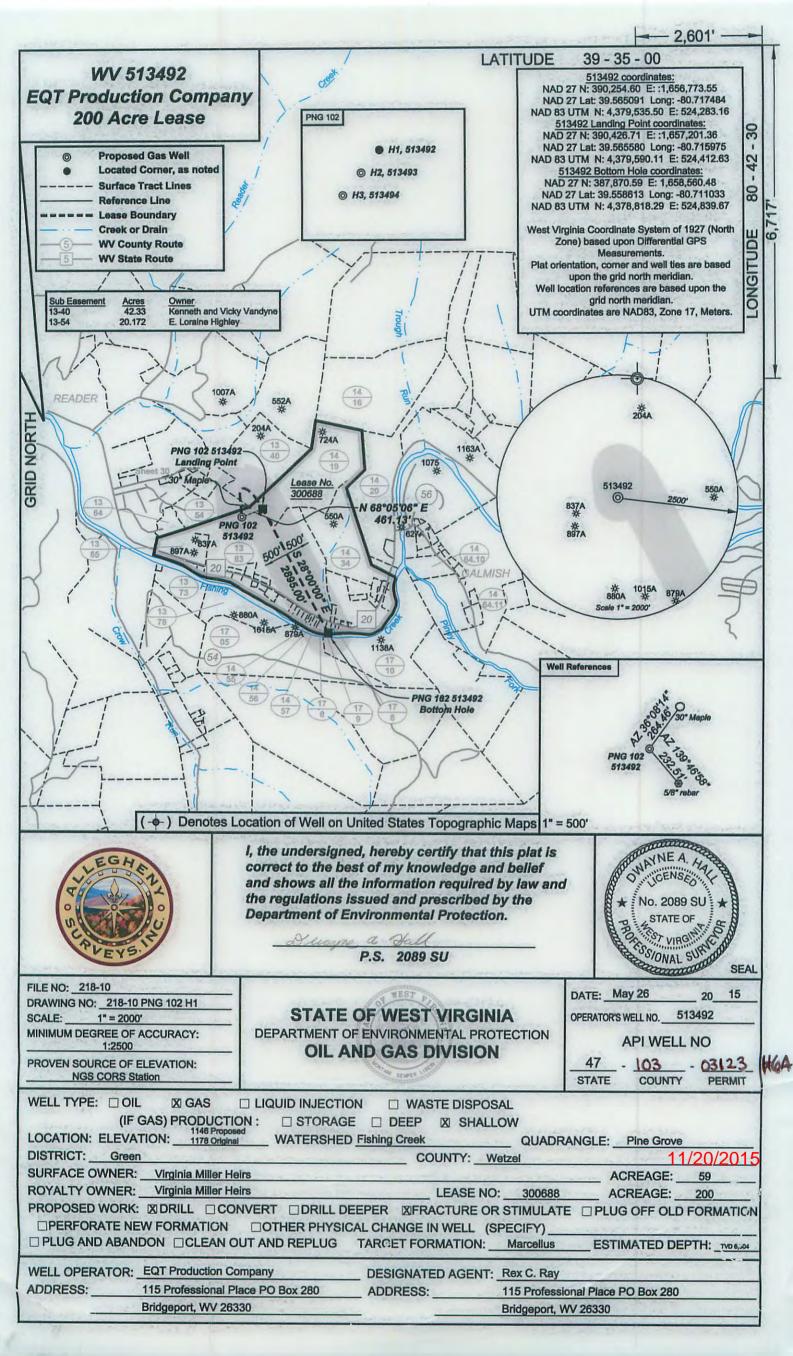
Hottigh & Linton
Notary Public

Prepared by: EQT Production Company, 625 Liberty Avenue, Suite 1700, Pittsburgh, PA 15222

Declaration of Consideration of Value

The Grantee hereby declares that the con estate is \$	sideration being p	paid to Granton	r for the transfer of real
Given under my hand this 26th day o	r May	<u>200</u>	
	-9	In	Busin
	EQT P	RODUCTION V. Damato	N COMPANY

Attorney-In-Fact





EQT Production Company 2400 Zenith Ridge Rd. Suite 200 Canonsburg, PA 15317 www.eqt.com

Todd Klaner Manager, Permitting tklaner@eqt.com

Via E-Mail

October 16, 2015

WV DEP Reviewer

RE: EQT Production Company

PAD ID - PNG102 Well# - 513492 Wetzel County

Dear Reviewer,

This well indicated by this permit application contains a Subsurface Easement Agreement for non-productive portions of the well bore. Attached is a Memorandum of Subsurface Use Agreement which gives EQT the right to drill below the surface of the tracts 13/40 and 13/54 shown on the well plat.

EQT Production understands that the WVDEP will issue the permit in the normal process subject to the completeness of the requirements of the Office of Oil and Gas and does not take a position with regards to the property rights under this agreement.

EQT Production agrees that the WVDEP's issuance of the permit is in no way an affirmance or validation of EQT Production's claimed rights.

Regards,

Todd Klaner Manager, Permitting

EQT Production Company

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) 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 santhat I am the person who signed the Notice and Application for the Applicant, and that –

- 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:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
300688			Min 1/8 pd	
	Jenkins Miller	Hope Natural Gas Company		LB107/56
	Hope Natural Gas Company	Consolidated Gas Supply Company		LB233/387
	Consolidated Gas Supply Company	CNG Transmission Corporation		LB66A/69
	CNG Transmission Corporation	Eastern States Oil & Gas Inc.		LB76A/270
	Eastern States Oil & Gas Inc.	Equitable Production Co.		CB13/14
	Equitable Production Co.	EQT Production Company		CB13/14

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

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 hereby acknowledges 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 acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company Office of Oil & Gas

By:
Its: Permitting Supervisor Page 1 of 1

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION 0 3 0 3 1 2 3

Date of Notice Certification:	0-3-15	AP	I No. 47 ⁻ 10	3 - 0
			erator's Well No.	513492
		We	ell Pad Name:	PNG102
lotice has been given:			and the second second	
ursuant to the provisions in West V		6A, the Operator has provided the	required parties with	the Notice Forms listed
elow for the tract of land as follows:		UTM NAD 83 Easting:		524,283.16
County: Wetze	اد	UTM NAD 83 Northing:		4,379,535.50
District: Green		Public Road Access:		RT 250
Quadrangle: Pine Gro	ove	Generally used farm name:	En	nma Virginia Miller Heirs
Vatershed: Fishing Creek				
Virginia Code § 22-6A-11(b), the apport this article have been completed both bursuant to West Virginia Code § 22 that the Operator has properly served	by the applicant.	has attached proof to this Notice C		OOG OFFICE USE
PLEASE CHECK ALL THAT AP		and the part of the same of		ONLY
NOTICE OF SEISMIC ACTIV	ITY or NOTE	CE NOT REQUIRED BECAUS MIC ACTIVITY WAS CONDUC		RECEIVED/NOT REQUIRED
NOTICE OF ENTRY FOR PL				☐ RECEIVED
□ NOTICE OF INTENT TO DRIL	LL or 🔽 NOTI	ICE NOT REQUIRED BECAUS ICE OF ENTRY FOR PLAT SU S CONDUCTED OR		RECEIVED/NOT REQUIRED
	PLE WRIT	TTEN WAIVER BY SURFACE ASE ATTACH)	OWNER	
NOTICE OF PLANNED OPE	RATION			☐ RECEIVED
▼ PUBLIC NOTICE				☐ RECEIVED
E NOTICE OF APPLICATION				Received

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

JUN 0 4 2015

WW-6AC (1/12)

Certification	Λŧ	Motica	IC	harahy	MIVAN	
Ceruncation	O.	MOLICE	10		GIVCII	

THEREFORE, I have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining 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 and imprisonment.

Well Operator: EQT Production Company

By: Victoria J. Roark

Its: Permitting Supervisor

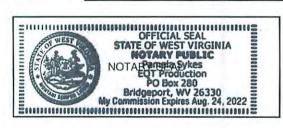
Telephone: 304-848-0076

Address: P.O. Box 280

Bridgeport, WV 26330

Facsimile: 304-848-0040

Email: vroark@eqt.com



Subscribed and sworn before me this

day of

Notary Public

,2015

My Commission Expires

8-24.22

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

4710303123

Received Office of Oil & Gas JUN 0 4 2015 WW-6A (9-13)

API NO.	47	2	103	+	0
OPERATOR WELL NO					513492
Well Ped Name:					PNG102

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

han are brown to be	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Charles and alleriant
	ice shall be provided no later than the filing	A de la
Date of Notice: 6-3	Date Permit Application F	filed: 6-3-15
		4710303123
Notice of:		0 0 0 1 2 3
PERMIT FOR ANY	☐ CERTIFICATE OF APPR	POVAL EOR THE
WELL WORK	CONSTRUCTION OF AI	N IMPOUNDMENT OR PIT
Delivery method pursuant to	West Virginia Code § 22-6A-10(b)	
PERSONAL	☐ REGISTERED ☑ N	METHOD OF DELIVERY THAT REQUIRES A
		RECEIPT OR SIGNATURE CONFIRMATION
SERVICE	MAIL	RECEIFT OR SIGNATURE CONTINUATION
requires a receipt or signar plat to each of the follow the surface tract or tracts disturbance as described lessee, in the event the tracecord of the surface traceconstruction, enlargemen water purveyor who is knowhich is used to provide work activity is to take plin the lands, the applicant article one, chapter elever unless the lien holder is the	ature confirmation, copies of the ap- ing persons: (1) The owners of reco- overlying the oil and gas leasehold in the erosion and sediment control act of land on which the well propo- tor tracts overlying the oil and gas t, alteration, repair, removal or aba- own to the applicant to have a water water for consumption by humans ace. (c)(1) If more than three tenant may serve the documents required in-a of this code. (2) Notwithstanding the landowner. W. Va. Code R. § 33	y this article shall deliver, by personal service or by registered mail or by any oplication, the erosion and sediment control plan required by section seven of ord of the surface of the tract on which the well is or is proposed to be located being developed by the proposed well work, if the surface tract is to be used I plan submitted pursuant to subsection (c), section seven of this article; (3) To seed to be drilled is located [sic] is known to be underlain by one or more coal leasehold being developed by the proposed well work, if the surface tract is and onment of any impoundment or pit as described in section nine of this er well, spring or water supply source located within one thousand five or domestic animals; and (6) The operator of any natural gas storage field its in common or other co-owners of interests described in subsection (b) of I upon the person described in the records of the sheriff required to be any provision of this article to the contrary, notice to a lien holder is not 5-8-5.7.a requires, in part, that the operator shall also provide the Well Site subject to notice and water testing as provided in section 15 of this rule.
✓ Application Notice ✓ SURFACE OWNER Name: Address:	(s) Emma Virginia Miller Heirs c/o Ronald Wayne Ratliff 6619 Lynngate Drive	COAL OWNER OR LESSEE Name: Address: C/O Ronald Wayne Ratliff 6619 Lynngate Drive
	Spring TX 77373	Spring TX 77373
District Control		— COAL OPERATOR
Name:		COAL OPERATOR Name:
Address:		Address:
		Address.
SURFACE OWNERS	S(s) (Road and/or Other Disturbance	ce)
Name:	Emma Virginia Miller Heirs	
Address:	c/o Ronald Wayne Ratliff	☑ SURFACE OWNER OF WATER WELL
	6619 Lynngate Drive	AND/OR WATER PURVEYOR(s)
	Spring TX 77373	Name: Loma C Lloyd
Name:	See Attached	Address: HG 60 Box 191 B
Address:		Name: Loma C Lloyd Address: H. 60 Box 191 B Off Reader W V 28 G 7
		- Sec Anamed
		OPERATOR OF ANY NATURAL GAS STORAGE 2015
SURFACE OWNER	s) (Impoundments/Pits)	
Name:	Emma Virginia Miller Heirs	Name:
Address:	c/o Ronald Wayne Ratliff	Address:
	6619 Lynngate Drive	
	Spring TX 77373	
	See Attached	*Please attach additional forms if necessary

WW6-A

Surface Owners (road or other disturbance):

Loraine Highley PO Box 286 Reader WV 26167

Kenneth and Vicky Vandyne 356 McKimmie Ridge Rd. Reader WV 26167

Dallison Lumber Co. PO Box 159 Jacksonburg WV 26377

Beulah E. Pittman PO Box 399 Reader WV 26167

Virginia D. Tracy PO Box 344 Reader WV 26167

Donald L. and Myrna R. Mason 134 Brush Run Rd. Reader WV 26167

Lauran Ann and Clayton Slater 1402 McKimmie Ridge Rd. Reader WV 26167

Surface Owners (Pits or impoundments):

Dallison Lumber Co. PO Box 159 Jacksonburg WV 26377

Additional Water Purveyors

Roma J Adams PO Box 373 Reader WV 26167

Ronald M & Pamela Ann Jackson PO Box 107 Reader WV 26167 4710303123

Received Office of Oll & Gas JUN 0 4 2015 WW-6AW (1-12)

API NO. 47 - 103	3 -	03123
OPERATOR WELL NO		513492
Well Pad Name:		PNG102

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

MOZI

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form

VOLUNTARY STATEMENT OF NO OBJECTION

hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated

WW-6A and attachments consisting of pages one (1) through				, including the erosion and sediment control plan, if	
required, and	the well plat, all for proposed well work on the tr	act of land as follows	:		
State:	WV	UTM NAD 83 Ea	asting:	524,283.16	
County:	Wetzel	UTM NAD 83 Northing: Public Road Access: Generally used farm name:		4,379,535.50	
District:	Green			RT 250	
Quadrangle:	Pine Grove			Emma Virginia Miller Heirs	
Watershed:	Fishing Creek				
*Please check the box that applies			FOR EXECUTION BY A NATURAL PERSON Signature:		
issued on th	nose materials.				
SURFACE OWNER			Signature: UV Uouc		
SURFACE OWNER (Road and/or Other Disturbance)			Print Nan	ne: Ed Dallison	
SURFACE OWNER (IMPOUNDMENTS/PITS)			Date:	ECUTION BY A CORPORATION, ETC.	
COAL OWNER OR LESSEE			Company		
COAL OPERATOR			By:	·	
□ WATER PURVEYOR			Its:		
COPERATOR OF ANY NATURAL GAS STORAGE FIELD			Signature:		
			Date:		

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

API NO. 47 -	103	-	03123
OPERATOR WELL	NO.		513492
Well Pad Name:			PNG102

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

1)81	meth (an) yne here	ARY STATEMENT OF NO O	Persons Named on Page WW-6A and the associate
provisions lis	ted above, and that I have received copies	of a Notice of Application, an Application for	or a Well Work Permit on Form
WW-6A and	attachments consisting of pages one (1) to	rrough	, including the erosion and sediment control plan,
State	the well plat, all for proposed well work or WV	UTM NAD 83 Easting:	524,283.16
County	Welzel	UTM NAD 83 Northing:	4,379,535.50
	Green	Public Road Access	RT 250
District:			111 230
District: Quadrangle:	. Pine Grove	Generally used farm name.	Emma Virginia Miller Heirs

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.

*Please check the box that applies SURFACE OWNER SURFACE OWNER (Road and/or Other Disturbance) SURFACE OWNER (IMPOUNDMENTS/PITS) COAL OWNER OR LESSEE COAL OPERATOR WATER PURVEYOR OPERATOR OF ANY NATURAL GAS STORAGE FIELD	FOR EXECUTION BY A NATURAL PERSON Signature: Print Name: Kanneth (All Dyne Date: FOR EXECUTION BY A CORPORATION, ETC. Company: By: Its: Signature:
	Date:

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

if

Additional Water Purveyors

Debra Ann Hengee et al L/E Helen Brown PO Box 341 Reader WV 26167

Theodore L Sawyer Jr 10712 Shortline Hwy Reader WV 26167

Edward G Stewart PO Box 403 Reader WV 26167

Michelle M Thomas 101 Apple St Reader WV 26167

Nathaniel L & Lisa D Yoho 10736 Shortline Hwy Reader WV 26167 4710303123

Office of Oil & Gas
JUN 0 4 2015

WW-6A	
(8-13)	

API NO.	<u>47</u>	-	103	-		0
OPERAT	OR W	ELL	NO.			513492
Well Pad	Name				PNG102	

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-03₁₂₃ gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The water action restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the well water and volations of the secretary shall, by December 31, 2012, report to the Legislature on the noise, light, does not within the restricted areas referenced in this section. organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding of the drilling of horizontal wells as they relate to the well location restrictions regarding the drilling of the drillin structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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API NO. <u>47</u> -	103	-	0
OPERATOR WELL NO.			513492
Well Pad Name:			PNG102

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The departments. A surface owner and water purveyor has an independent right to sample and capable of performing sample analyses in accordance

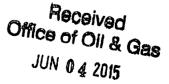
Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this secretal, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours: (2) Provide temporary water supply within seventy-two hours: (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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



Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) API NO. 47 - 103 - 0

OPERATOR WELL NO. 513492

Well Pad Name: PNG102

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(4), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Notice is hereby give	en by:		
Well Operator:	EQT Production Company	Address:	115 Professional Place P.O. Box 280
Telephone:	304-848-0082		Bridgeport, WV 26330
Email:	Vroark@eqt.com	Facsimile:	304-848-004

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Pamela Sykes
EQT Production
PO Box 280
Bridgeport, WV 26330
My Commission Expires Aug. 24, 2022

By: Victoria Roark

Its: Permitting Supervisor

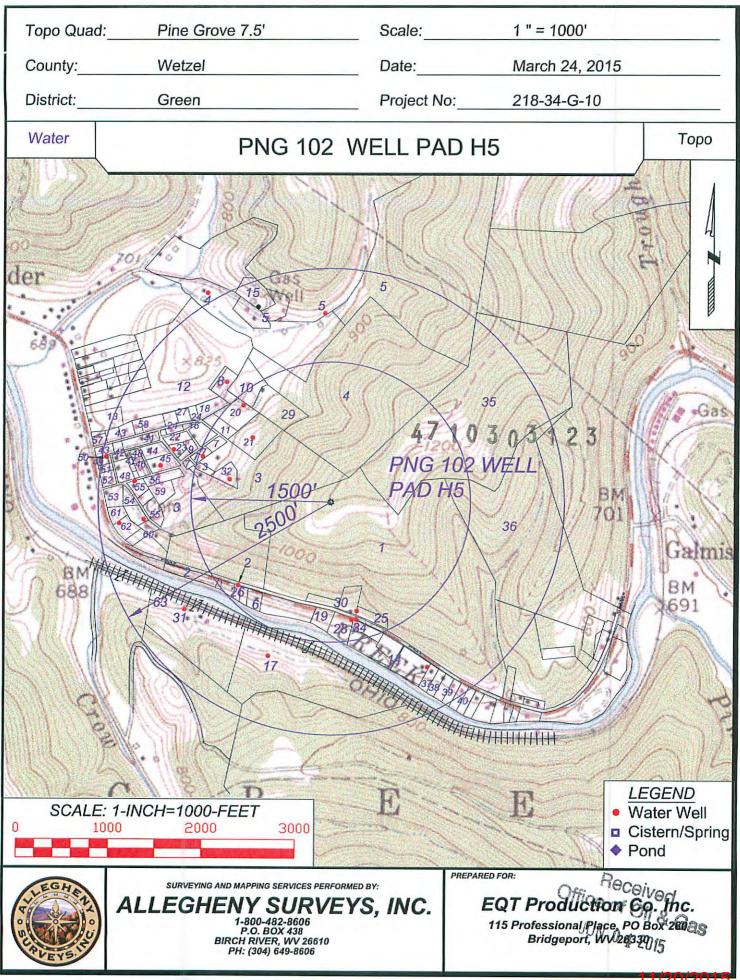
Subscribed and sworn before n

_ day of fine

, 2015 Notary Public

My Commission Expir 8-24-22

4710303123



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Re	equirement: Notice shall be provided at least Si	EVEN (7) days but no more than F	ORTY-FIVE (45) days prior to entry.
Date of Notice:	2/12/2014	Date of Planned	Entry: 2/20/2014
Delivery metho	od pursuant to West Virginia Code § 22-6A-10	(a):	
PERSONA	L SERVICE X CERTIFIED MAIL	METHOD OF DELIVERY THAT REC	QUIRES A RECEIPT OR SIGNATURE CONFIRMATION
prior to such en pursuant to sec records. The no and gas explora	any plat surveys required pursuant to this articl try to: (1) The surface owner of such tract; (2) stion thirty-six, article six, chapter twenty-two o tice shall include a statement that copies of the	e. Such notice shall be provided a to any owner or lessee of coal se f this code; and (3) any owner o state Erosion and Sediment Con Secretary, which statement shall in	all provide notice of planned entry on to the surface t least seven days but no more than forty-five days ams beneath such tract that has filed a declaration f minerals underlying such tract in the county tax trol Manual and the statutes and rules related to oil clude contact information, including the address for cretary.
Notice is hereb	by provided to:		
Ror Name: Hei	RFACE OWNER(S) nald Ratliff irs of Emma Virginia Miller 19 Lynngate Drive	A TOCO	AL OWNER OR LESSEE Al Colaration Pursuant to §22-6A-10 and §22-6-36 of Record
	ring, TX 77373-7334	Address:	
		MII	NERAL OWNER(S)
Name:		Managara	
Marile.	•	Name:	
Address:		Address:	
		*Plea	se attach additional forms if necessary
Notice is hereb Pursuant to Wes the tract of land	st Virginia Code § 22-6A-10(a), notice is hereby	given that the undersigned well op	perator is planning entry to conduct a plat survey on
State: \	West Virginia	Approx. Latitude & Longitude:	-39.564870 / -80.717717
_	Wetzel	Public Road Access:	CR20
	Green / Map 13 / Parcel 83	Watershed:	Fishing Creek
Quadrangle:I		Generally Used Farm Name:	
(304-926-0450).	ne Secretary, at the WV Department of Environn	nental Protection headquarters, loc	o oil and gas exploration and production may be cated at 601 57th Street, SE, Charleston, WV 25304 g may be obtained from the Secretary by visiting
Notice is hereb	by given by:		
Well Operator:	EQT Production Company	Address:	115 Professional Place, Bridgeport, WV 26330
Telephone:	304-848-0075	EQT Representative:	Chris Metzgar
Facsimile:	304-848-0040	zar rispisosmano.	Received
Email:	EQTLandEntryNotice@eqt.com	Signature:	Mu Office of Oil & Gas
Oil and Gas Pri			JUN 0 4 2015
The Office of O	il and Gas processes your personal informatio ation may be disclosed to other State agencies of	n, such a name, address and tele or third parties in the normal course	ephone number, as part of regulatory duties. Your e of business or as needed to comply with statutory

any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@WV.gov.

Please Call we when it is convienient for your 1/20/2015
304 844 2238 Thanks!

or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have

WW-6A5	
(1/12)	

Operator Well No.

513492

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Delivery metho	d pursuant to West Virginia Code § 22-6A-	16(c)			
	FIED MAIL HANI RN RECEIPT REQUESTED DELI	O VERY			
return receipt receipt receipt receipt receipt required to be produilling of a horized amages to the second rotices receipt rotice.	a. Code § 22-6A-16(c), no later than the date for quested or hand delivery, give the surface owner ration. The notice required by this subsection sha ovided by subsection (b), section ten of this articontal well; and (3) A proposed surface use and courface affected by oil and gas operations to the equired by this section shall be given to the surface provided to the SURFACE OWNER(s)	whose land will be a control of the	e used for the dril ppy of this code se ner whose land w ement containing es are compensabl ddress listed in the	lling of a horizontal well notice ction; (2) The information ill be used in conjunction with an offer of compensation for le under article six-b of this cha	the
at the address lis	sted in the records of the sheriff at the time of no Emma Virginia Miller				oraina Hiablad
lame:	Littila Viigitta iviiliei	riens ivalue.			oraine Highley
	c/o Ronald Wayne	Ratliff Addre	ss.		PO Boy 286
Notice is hereby Pursuant to West	c/o Ronald Wayne 6619 Lynngate Spring TX given: t Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a	Drive 17373 en that the under	signed well opera	tor has developed a planned l as follows:	PO Box 286 eader WV 26167 4,283.160000
operation on the State: County: District:	6619 Lynngate Spring TX given: t Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a WV Wetzel Green	Drive 17373 en that the under I horizontal well o UTM NAD 83 Public Road Acc	signed well opera n the tract of land Easting: Northing: ess:	itor has developed a planned I as follows: 52 4,37	4,283.160000 9,535.500000 RT 250
Notice is hereby Pursuant to West operation on the state: County: District: Quadrangle:	6619 Lynngate Spring TX given: t Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a WV Wetzel	Drive 17373 en that the under horizontal well o UTM NAD 83	signed well opera n the tract of land Easting: Northing: ess:	itor has developed a planned I as follows: 52 4,37	eader WV 26167 4,283.160000 9,535.500000
Notice is hereby Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Fhis Notice Shall Pursuant to West to be provided by norizontal well; a surface affected I	given: It Virginia Code § 22-6A-16(c), notice is hereby given: WV Wetzel Green Pine Grove Fishing Creek Include: It Virginia Code § 22-6A-16(c), this notice shall include: It Virginia Code § 22-6A-10(b) to a surface owner with the company of the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253	en that the under thorizontal well of UTM NAD 83 Public Road Acc Generally used lude: (1)A copy of whose land will be a greement contages are compensate Secretary, at the	signed well opera n the tract of land Easting: Northing: ess: farm name: this code section; used in conjuncti sining an offer of colle under article se	tor has developed a planned as follows: 52 4,37 Emma Virgin (2) The information required on with the drilling of a compensation for damages to ix-b of this chapter. Additiona	4,283.160000 9,535.500000 RT 250 ia Miller Heirs
Notice is hereby Pursuant to West Operation on the State: County: District: Quadrangle: Watershed: Pursuant to West This Notice Shall Pursuant to West To be provided by To be	given: It Virginia Code § 22-6A-16(c), notice is hereby given: WV Wetzel Green Pine Grove Fishing Creek Include: It Virginia Code § 22-6A-16(c), this notice shall include: It Virginia Code § 22-6A-10(b) to a surface owner wind (3) A proposed surface use and compensation by oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536 box.	en that the under thorizontal well of UTM NAD 83 Public Road Acc Generally used lude: (1)A copy of whose land will be a agreement contages are compensate Secretary, at the D4 (304-926-0450)	signed well opera n the tract of land Easting: Northing: ess: farm name: this code section; used in conjuncti aining an offer of o	tor has developed a planned las follows: 52 4,37 Emma Virgin (2) The information required on with the drilling of a compensation for damages to fix-b of this chapter. Additional of Environmental Protection ww.dep.wv.gov/oil-and-gas/	4,283.160000 9,535.500000 RT 250 ia Miller Heirs
Notice is hereby Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Pursuant to West to be provided by norizontal well; a surface affected information relat	given: It Virginia Code § 22-6A-16(c), notice is hereby given: WV Wetzel Green Pine Grove Fishing Creek Include: It Virginia Code § 22-6A-16(c), this notice shall include: It Virginia Code § 22-6A-10(b) to a surface owner with the company of the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253	en that the under thorizontal well of UTM NAD 83 Public Road Acc Generally used lude: (1)A copy of whose land will be a greement contages are compensate Secretary, at the	signed well opera n the tract of land Easting: Northing: ess: farm name: this code section; used in conjuncti aining an offer of o ble under article s e WV Department) or by visiting ww.	tor has developed a planned as follows: 52 4,37 Emma Virgin (2) The information required on with the drilling of a compensation for damages to ix-b of this chapter. Additiona	4,283.160000 9,535.500000 RT 250 ia Miller Heirs

duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will JUN 0.42015

11/20/2015

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513492

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time R Date of Notice	equirement: notice shall be provided no late :	r than the filing o ate Permit Appli		ion. 6-3-15
Delivery meth	od pursuant to West Virginia Code § 22-6A-	16(c)		
	FIED MAIL HAN RN RECEIPT REQUESTED DELI	D VERY		
return receipt re the planned ope required to be p drilling of a hori damages to the	Va. Code § 22-6A-16(c), no later than the date for equested or hand delivery, give the surface owner ration. The notice required by this subsection sharovided by subsection (b), section ten of this artice contal well; and (3) A proposed surface use and contains affected by oil and gas operations to the equired by this section shall be given to the surface	whose land will be all include: (1) A co tle to a surface own compensation agree extent the damage	e used for the drilling of a py of this code section; (in the ment whose land will be us the ment containing an offe are compensable under dress listed in the record	a horizontal well notice of 2) The information sed in conjunction with the r of compensation for r article six-b of this chapter. Is of the sheriff at the time
Notice is hereb	provided to the SURFACE OWNER(s)		41	10303123
	isted in the records of the sheriff at the time of n	otice):		000123
Name:	Kenneth and Vicky Va			Dallison Lumber Co
Address:	356 McKimmie Ric	ige Rd Addres	s:	PO Box 159
7-	Reader WV	26167		Jacksonburg WV 26377
State: County: District: Quadrangle:	WV Wetzel Green Pine Grove	Public Road Acco	,	524,283.160000 4,379,535.500000 RT 250 Emma Virginia Miller Heirs
Watershed:	Fishing Creek			
to be provided horizontal well; surface affected information rela	st Virginia Code § 22-6A-16(c), this notice shall inc by W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensatio by oil and gas operations to the extent the dama atted to horizontal drilling may be obtained from to coated at 601 57th Street, SE, Charleston, WV 253	whose land will be n agreement conta ges are compensal he Secretary, at the	used in conjunction with hining an offer of compen ble under article six-b of e WV Department of Env	n the drilling of a disation for damages to the this chapter. Additional dironmental Protection
Well Operator:	EQT Production Company	Address:	115 Professional Place,	P.O. Box 280
Telephone:	304-848-0082	Bridgeport,		Received
Email:	vroark@eqt.com	Facsimile:	304-848-0040	Office of Oil & Ga
	racy Notice: and Gas processes your personal information, su sonal information may be disclosed to other State			er, as part of our regulatory

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

WW-6A5	
(1/12)	

Operator W	ell	NO
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513492

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice:	6-3-15	Date Permit Ap	plication Filed:	6-3-15
Delivery metho	od pursuant to West Virginia Code § 22	2-6A-16(c)		
	Land	HAND DELIVERY		
return receipt rea the planned oper required to be pr drilling of a horiz damages to the s	a. Code § 22-6A-16(c), no later than the dat quested or hand delivery, give the surface or ration. The notice required by this subsection ovided by subsection (b), section ten of this ontal well; and (3) A proposed surface use a urface affected by oil and gas operations to equired by this section shall be given to the	owner whose land wil on shall include: (1) A s article to a surface of and compensation ag the extent the dama	I be used for the drilling of copy of this code section owner whose land will be reement containing an of ages are compensable und	of a horizontal well notice of ; (2) The information used in conjunction with the fer of compensation for der article six-b of this chapter.
	provided to the SURFACE OWNER(s)			
(at the address li	sted in the records of the sheriff at the time	/	t e	
Name:	Beula	h E. Pittman Nan	ne:	Virginia D. Tracy
Address:		PO Box 339 Add	ress:	PO Box 344
	Reade	er WV 26167	4/1030	3 4 9 7 Reader WV 26167
State: County: District: Quadrangle: Watershed:	Wet: Gre Pine Gro	en Public Road A	Northing:	524,283.160000 4,379,535.500000 RT 250 Emma Virginia Miller Heirs
to be provided b horizontal well; a surface affected information relat	t Virginia Code § 22-6A-16(c), this notice show W. Va. Code § 22-6A-10(b) to a surface owend (3) A proposed surface use and compend by oil and gas operations to the extent the code to horizontal drilling may be obtained from the dated at 601 57th Street, SE, Charleston, W.	wner whose land will sation agreement co damages are comper on the Secretary, at	be used in conjunction w ntaining an offer of comp nsable under article six-b o the WV Department of Er	ith the drilling of a ensation for damages to the of this chapter. Additional nvironmental Protection
Well Operator:	EQT Production Company	Address:	115 Professional Plac	e P.O. Boy 280
Telephone:	304-848-0082		rt, WV 26330	c, 1.0. Don 200
Email:	vroark@eqt.com	Facsimile		m - ciuad
				Office of Oil & Gas
Oil and Gas Priva		and the same of the	Concession and the concession of the concession	Onice of Office age
The Office of Oil	and Gas processes your personal information and information may be disclosed to other	on, such as name, ad	dress and telephone num	per, as part of our regulatory 2015
duties. Your pers	sonal information may be disclosed to other	State agencies or th	ird parties in the normal c	ourse of business of this of the

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

WW-6A5
(1/12)

Operator Well No.

513492

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Notice:	quirement: notice shall be provided no late	ate Permit Appl	ication Filed:	6-3-1	5
Delivery metho	d pursuant to West Virginia Code § 22-6A-	16(c)			
The second secon	FIED MAIL HANI RN RECEIPT REQUESTED DELI	D VERY			
return receipt rec the planned oper required to be prodrilling of a horized damages to the so	a. Code § 22-6A-16(c), no later than the date for quested or hand delivery, give the surface owner ration. The notice required by this subsection sha ovided by subsection (b), section ten of this articontal well; and (3) A proposed surface use and courface affected by oil and gas operations to the equired by this section shall be given to the surface	whose land will ball include: (1) A coole to a surface own pensation agreextent the damage	oe used for the drilling opy of this code sectioner whose land will ement containing an es are compensable u	ng of a horizontal we ion; (2) The informat be used in conjuncti n offer of compensati under article six-b of	Il notice of ion on with the ion for this chapter.
Notice is hereby	provided to the SURFACE OWNER(s)				
	sted in the records of the sheriff at the time of no Donald L. And Myrna R. N	Do D	4	Lauran A	nn and Clayton Slater
Address:	134 Brush Ri		1-0		McKimmie Ridge Rd.
	Reader WV		03	di	Reader WV 26167
ursuant to West			rsigned well operator		
Pursuant to West operation on the state:	given: : Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a WV		rsigned well operator on the tract of land as Easting:	r has developed a pl	anned 524,283.160000
Pursuant to West operation on the State: County:	given: : Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a WV Wetzel	a horizontal well o UTM NAD 83	rsigned well operator on the tract of land as Easting: Northing:	r has developed a pl	anned 524,283.160000 4,379,535.500000
Pursuant to West operation on the State: County: District:	given: : Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a WV Wetzel Green	a horizontal well o UTM NAD 83 Public Road Acc	rsigned well operator on the tract of land as Easting: Northing:	r has developed a pla s follows:	anned 524,283.160000 4,379,535.500000 RT 250
Pursuant to West operation on the State: County: District: Quadrangle:	given: : Virginia Code § 22-6A-16(c), notice is hereby giv surface owner's land for the purpose of drilling a	a horizontal well o UTM NAD 83	rsigned well operator on the tract of land as Easting: Northing:	r has developed a pla s follows:	anned 524,283.160000 4,379,535.500000
Pursuant to West operation on the State: County: District: Quadrangle: Watershed:	given: : Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek	a horizontal well o UTM NAD 83 Public Road Acc	rsigned well operator on the tract of land as Easting: Northing:	r has developed a pla s follows:	anned 524,283.160000 4,379,535.500000 RT 250
Pursuant to West operation on the State: County: District: Quadrangle: Watershed:	given: Virginia Code § 22-6A-16(c), notice is hereby given: Surface owner's land for the purpose of drilling and surface owner's land for the purpose of drilling and surface owner's land for the purpose of drilling and surface owner's land for the purpose of drilling and surface owner's land for the purpose of drilling and surface owner. We would be a surface of the purpose of drilling and surface owner's land for the purpose of drilling and surface	a horizontal well c UTM NAD 83 Public Road Acc Generally used	rsigned well operator on the tract of land as Easting: Northing: ess: farm name:	r has developed a pla s follows: Emma	anned 524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs
Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Pursuant to West	given: Virginia Code § 22-6A-16(c), notice is hereby given: surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: Virginia Code § 22-6A-16(c), this notice shall inc	a horizontal well of UTM NAD 83 Public Road Acc Generally used	rsigned well operator on the tract of land as Easting: Northing: ess: farm name:	r has developed a pla s follows: Emma	anned 524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs
operation on the State: County: District: Quadrangle: Watershed: Fhis Notice Shall Pursuant to West	given: Virginia Code § 22-6A-16(c), notice is hereby given: Surface owner's land for the purpose of drilling and dril	a horizontal well of UTM NAD 83 Public Road Acc Generally used slude: (1)A copy of whose land will be	rsigned well operator on the tract of land as Easting: Northing: ess: farm name:	r has developed a place of the state of the	524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs
Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Pursuant to West to be provided by norizontal well; a	given: Virginia Code § 22-6A-16(c), notice is hereby given: Surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: Virginia Code § 22-6A-16(c), this notice shall include: W. Va. Code § 22-6A-10(b) to a surface owner and (3) A proposed surface use and compensation	a horizontal well of UTM NAD 83 Public Road Acc Generally used slude: (1)A copy of whose land will be a agreement conta	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2	r has developed a place of the second	524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired a
Pursuant to West operation on the state: County: District: Quadrangle: Watershed: Pursuant to West o be provided by norizontal well; a urface affected by	given: I Virginia Code § 22-6A-16(c), notice is hereby given: Surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: Virginia Code § 22-6A-16(c), this notice shall income with the compensation of the compensation of the extent the damage of the compensation of the com	Public Road Acc Generally used slude: (1)A copy of whose land will be a agreement contages are compensa	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2 e used in conjunction aining an offer of con-	r has developed a place of the information related to the drilling of a mpensation for dama to of this chapter. Ad	anned 524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired ages to the ditional
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Pursuant to West operation on the state: County: District: Quadrangle: Vatershed: Pursuant to West obe provided by porizontal well; a urface affected by programme to relative adquarters, located and contact of the state and contact of t	given: I Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: V Va. Code § 22-6A-16(c), this notice shall income (w. Va. Code § 22-6A-10(b)) to a surface owner with (3) A proposed surface use and compensation only oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253	Public Road Acc Generally used slude: (1)A copy of whose land will be a agreement contages are compensa- ne Secretary, at th	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2 e used in conjunction aining an offer of con ble under article six- e WV Department of	r has developed a plass follows: Emma 2) The information resident the drilling of a plass of this chapter. Ad f Environmental Protections	anned 524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired a ages to the ditional
Pursuant to West operation on the State: County: District: Quadrangle: Watershed: This Notice Shall Pursuant to West o be provided by norizontal well; a surface affected kinformation relationadd and the state of the sadquarters, locages/default.asp	given: I Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: V Va. Code § 22-6A-16(c), this notice shall income (w. Va. Code § 22-6A-10(b)) to a surface owner with (3) A proposed surface use and compensation only oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 253	Public Road Acc Generally used slude: (1)A copy of whose land will be a agreement contages are compensa- ne Secretary, at th	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2 e used in conjunction aining an offer of con ble under article six- e WV Department of	r has developed a place of the information restricted by the information restricted by the control of the contr	anned 524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired a ages to the ditional
Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Pursuant to West o be provided by norizontal well; a surface affected by norizontal well of the surface affected by norizontal well.	given: Virginia Code § 22-6A-16(c), notice is hereby given: Surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: Virginia Code § 22-6A-16(c), this notice shall include: W. Va. Code § 22-6A-10(b) to a surface owner will and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536 ox.	Public Road Acc Generally used dude: (1)A copy of whose land will be a agreement contages are compensa the Secretary, at the 04 (304-926-0450	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2 e used in conjunction aining an offer of con ble under article six- e WV Department of) or by visiting www.	r has developed a place, P.O. Box 280	524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired ages to the ditional ection gas/
Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Pursuant to West to be provided by norizontal well; a surface affected by normation relations and the state of the provided by norizontal well; a surface affected by normation relations are surface affected by the provided by norizontal well; a surface affected by the provided by the	given: I Virginia Code § 22-6A-16(c), notice is hereby given: Surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: Virginia Code § 22-6A-16(c), this notice shall include: Viving W. Va. Code § 22-6A-10(b) to a surface owner will be a compensation of the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2530 ox. EQT Production Company	Public Road Acc Generally used Itude: (1)A copy of whose land will be a agreement contages are compensate Secretary, at the O4 (304-926-0450) Address:	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2 e used in conjunction aining an offer of con ble under article six- e WV Department of) or by visiting www.	r has developed a place, P.O. Box 280	524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired a ages to the ditional ection agas/
Pursuant to West operation on the State: County: District: Quadrangle: Watershed: Pursuant to West to be provided by norizontal well; a surface affected by norizontal well as a surface affected by norizontal	given: Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: Virginia Code § 22-6A-16(c), this notice shall incompany oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536 ox. EQT Production Company 304-848-0082 Vroark@eqt.com	Public Road Acc Generally used clude: (1)A copy of whose land will be a agreement contages are compensate Secretary, at the 104 (304-926-0450) Address: Bridgeport,	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2 e used in conjunction aining an offer of con ble under article six- e WV Department of) or by visiting www. 115 Professional Pl WV 26330	r has developed a place, P.O. Box 280	524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired a ages to the ditional ection agas/
rursuant to West operation on the otate: County: District: Quadrangle: Vatershed: Visit Notice Shall rursuant to West o be provided by orizontal well; a rurface affected by orizontal well; a rurface affected by orizontal well; a verface affected by orizontal w	given: Virginia Code § 22-6A-16(c), notice is hereby gives surface owner's land for the purpose of drilling a WV Wetzel Green Pine Grove Fishing Creek Include: Virginia Code § 22-6A-16(c), this notice shall incompany oil and gas operations to the extent the damaged to horizontal drilling may be obtained from the cated at 601 57th Street, SE, Charleston, WV 2536 ox. EQT Production Company 304-848-0082 Vroark@eqt.com	Public Road Acc Generally used clude: (1)A copy of whose land will be a agreement contages are compensate Secretary, at the 104 (304-926-0450) Address: Bridgeport, Facsimile:	rsigned well operator on the tract of land as Easting: Northing: ess: farm name: this code section; (2 e used in conjunction aining an offer of con ble under article six- e WV Department of) or by visiting www. 115 Professional Pl WV 26330 304-848-0040	r has developed a plass follows: Emma 2) The information report of the development of the control of the cont	anned 524,283.160000 4,379,535.500000 RT 250 a Virginia Miller Heirs equired a langes to the ditional ection legas/ Pecoived a Of Oil & Ga

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

rirginia 25305-0430 ° (304) 558-3505

Paul A. Mattox, Jr., P. E. Secretary of Transportation/Commissioner of Highways

May 15, 2015

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the PNG102 Pad Site, Wetzel County

513492 PNG102H1 513493 PNG102H2 513494 PNG102H3 513495 PNG102H4 513496 PNG102H5 513497 PNG102H6 513964 PNG102H7 513965 BIG190H8 513966 PNG102H9 513967 PNG102H10 513968 PNG102H11 513969 BIG190H12 513970 PNG102H13 513971 PNG102H14 513972 PNG102H15 513973 BIG190H16 513974 PNG102H17 513975 PNG102H18

Dear Mr. Martin,

Earl Ray Tomblin

Governor

This well site will be accessed from existing Permit # 06-2015-0176 issued to EQT Production Company for access to the State Road for a well site located off of Wetzel County Route 52 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

4710303123

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Nick Bumgardner
EQT Production Company
CH, OM, D-6, File

Anticipated Frac Additives Chemical Names and CAS numbers

<u>Material</u>	<u>Ingredient</u>	CAS Number
Water		
Sand	Hydrotreated light petroleum distillate	14808-60-7
Friction Reducer	Tributyl tetradecyl phosphonium chloride	64742-47-8
Biocide	Ammonium chloride	81741-28-8
Scale Inhibitor	Hydrochloric Acid	12125-02-9
15% Hydrochloric Acid	Propargyl Alcohol	7647-01-0
Corrosion Inhibitor	Methanol	107-19-7
Corrosion Inhibitor	Guar Gum	67-56-1
Gelling Agent	Sodium Persulfate	9000-30-0
Oxidizing Breaker	Potassium Carbonate	7775-27-1
Buffering Agent		584-08-7 ⁻

4710303123

FLOODPLAIN CONDITIONS DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN. PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR. NO HEC-RAS STUDY COMPLETED: LOODPLAIN SHOWN ON DRAWINGS: FIRM MAP NUMBER(S) FOR SITE: ACREAGES OF CONSTRUCTION IN FLOODPLAIN

PROPOSED WELL LEGEND

H1	513492 - LAT: 39.565172	/ LONG -80 717305
H2	513493 - LAT: 39.565140	/ LONG:-80.717338
H3	513494 - LAT 39.565107	/ LONG:-80.717371
H4	513495 - LAT: 39.565075	/ LONG:-80.717404
H5	513496 - LAT: 39.565043	/ LONG80.717438
H6	513497 - LAT: 39.565011	/ LONG:-80.717471
H7	513964 - LAT: 39.564979	/ LONG -80.717504
H8	513965 - LAT 39.564947	/ LONG:-80.717537
H9	513966 - LAT 39.564914	/ LONG:-80.717571
H10	513967 - LAT: 39.565104	/ LONG -80.717238
H11	513968 - LAT: 39.565072	/ LONG:-80.717272
H12	513969 - LAT: 39.565040	/ LONG:-80.717305
H13	513970 - LAT: 39.565008	/ LONG -80.717338
H14	513971 - LAT: 39.564976	/ LONG -80.717371
H15	513972 - LAT: 39.584943	/ LONG:-80.717405
H16	513973 - LAT: 39.564911	/ LONG -80.717438
H17	513974 - LAT: 39.564879	/ LONG:-80.717471

H18 513975 - LAT 39 564847 / LONG:-80.717504

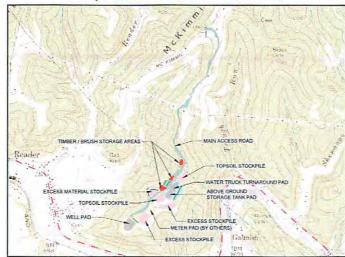


APPROVED

MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!



PNG 102 WELL PAD FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS** EQT PRODUCTION COMPANY



	2000	3000
\$/7.E.	LOCATIONS NATI AZ	_
	LATITUDE	LONGITUDE
Deginning of Main Access Road	30.583771	-80.708487
Center of AST 1	39.569040	-80 711517
Center of AST 2	39.568311	-80.71217e
Conner of AST 3	39 567845	-80 712564



Project Contacts

Chris Metrgar - EQT Production Company 304-848-0075 Off.

Billy Miller + Landman II-Dnlling EQT Production Company 304-627-0367 Mobile 304-848-0039 Office

Surveyor & Engineer

Thomas D. Corathers - PE , PS- Hornor Brothers Engineers 304-624-6445 Office Design Certification

The dissings, construction notes, and informace diagrams attached hereto have been prepared in diagrams attached hereto have been prepared in accordance with the West Virginia Close of State Rules.

Division of Eminormental Protection, Office of 00 is and Gas §35-421. The information influxts one AST pad with (2)-60,000 Barrel Completion Water Tank until 19-2,000 Barrel Fac West Tank with secondary containment. sposed filling method shall be by pumping

Horror Brutters Engineers make no certifications relating to the design, construction or materials associated with the Above Ground Storage Tanks (AST's)



West Virginia Coordinate System of 1983 State Plane Grid North Elevations NAVD88 Established By Survey Grade GPS

AFFECTED PROPERTIES
GREEN DISTRICT - WETZEL COUNTY, WV

TM 14 - PCL 1 KENNETH & VICKY VANDYNE 73 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD = 7.78 ACRES TIMBER REMOVAL = 2.38 ACRES

TM 14 - PCL 15 DONALD & MYRNA MASON 117 ACRES

MAIN ACCESS ROAD = 6.04 ACRES TIMBER REMOVAL = 0.92 ACRES

TM 13 - PCL 17 LAURA ANN SLATER 90 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD = 2 41 ACRES TIMBER REMOVAL = 2.41 ACRES

TM 13 - PCL 26 7 55 ACRES SITE DISTURBANCE

TIMBER & BRUSH STORAGE = 0.34 TIMBER REMOVAL = 3.61 ACRES

TM 14 - PCL 16 VIRGINIA TRACY 29.56 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD = 3 29 ACRES TIMBER & BRUSH STORAGE = 0.68 ACRES TIMBER REMOVAL = 3.87 ACRES

TM 14 - PCL 19 DALLISON LUMBER CO. 51 5 ACRES

MAIN ACCESS ROAD = 5 38 ACRES AST PAD / WTTA = 8.38 ACRES TOP SOIL STOCKPILES = 5.78 ACRES EXCESS MATERIAL STOCKPILES = 6.26 ACRES METER SITE = 1.39 ACRES TIMBER & BRUSH STORAGE = 0.25 ACRES TOTAL DISTURBANCE = 27 44 ACRES TIMBER REMOVAL = 27.19

TM 13-PCL 40 KENNETH & VICKY VANDYNE 42-33 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD = 5.01 ACRES TOP SOIL STOCKPILES = 0 07 ACRES TIMBER / BRUSH STORAGE = 0 93 ACRES EXCESS MATERIAL STOCKPILE = 4.22 ACRES TIMBER REMOVAL = 10 23 ACRE

TM 13 - PCI 83 VIRGINIA MILLER & RONALD RATLIFF 59 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD = 0.24 EXCESS MATERIAL STOCKPILE = 0.78 ACRES WELL PAD = 5.97 ACRES TIMBER REMOVAL = 6.99 ACRES

TM 13 - PCL 54 KENNETH & LORAINE HIGHLEY 20 172 ACRES SITE DISTURBANCE

SHEET INDEX

COVER SHEET / LOCATION MAP-----

EXISTING CONDITIONS PLAN
SCHEDULE OF QUANTITIES
CONSTRUCTION, GENERAL AND EAS NOTES
OVERVIEW PLAN

FINAL DESIGN PLANS

RECLAMATION PLANS ----

MAIN ACCESS ROAD = 0.37 ACRES WELL PAD = 0.50 ACRES TIMBER REMOVAL = 0.87 ACRES



P.O. 237

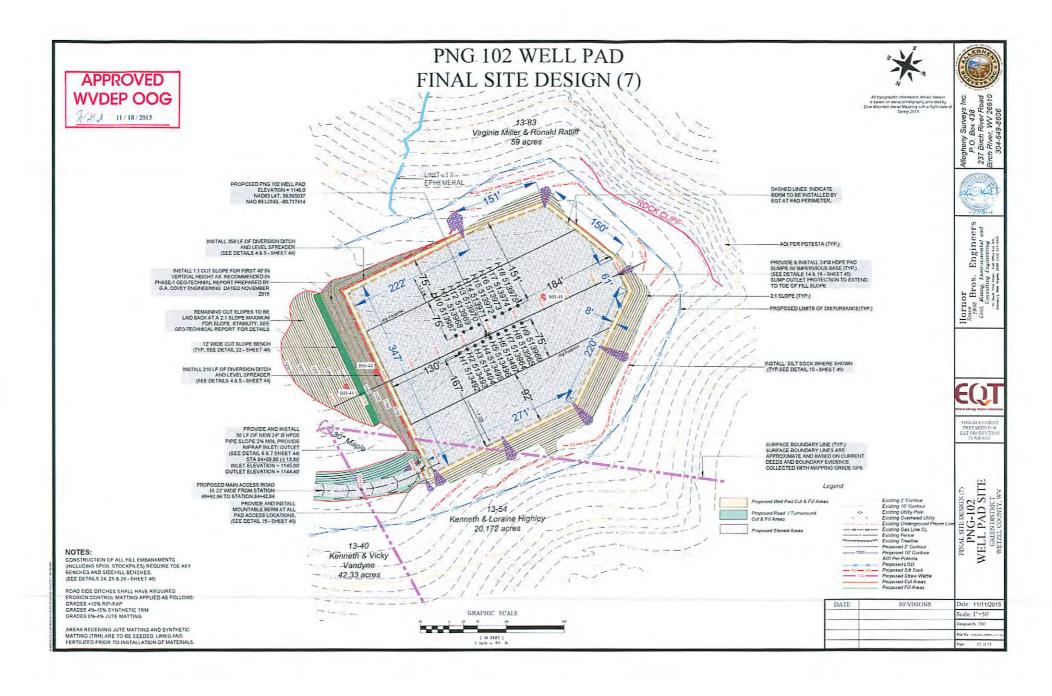


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EQT PRODUCTION COMPANY

102 D SITE AD WELL

ATE	REVISIONS	Date: 11/11/2015
		Scale: AS SHOWN
		Designed by TIEC
		File No. The Street Street.
		Page 1 of 55



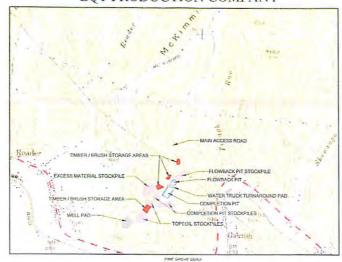
FLOODPLAIN CONDITIONS DO SITE CONSTRUCTON ACTIVITIES TAKE PLACE IN FLOODPLAIN PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR NO NIA FLOODPLAIN SHOWN ON DRAWINGS NA FIRM MAP NUMBER(S) FOR SITE 54103/001800 ACREAGES OF CONSTRUCTION IN FLOODER AIN

PROPOSED WELL LEGEND 513492 - LAT: 39.565172 / LONG:-80.717305 513493 - LAT: 39.565140 / LONG:-80.717338 513494 - LAT: 39.565107 / LONG:-80.717371 513495 - LAT: 39.565075 / LONG:-80.717404 513496 - LAT: 39.565043 / LONG:-80.717438 513497 - LAT: 39.565011 / LONG:-80.717471 513964 - LAT: 39.564979 / LONG:-80.717504 513965 - LAT: 39.564947 / LONG:-80.717537 513966 - LAT: 39.564914 / LONG:-80.717571 H10 513967 - LAT: 39.565104 / LONG:-80.717238 H11 513968 - LAT: 39.565072 / LONG:-80.717272 H12 513969 - LAT: 39.565040 / LONG:-80.717305 H13 513970 - LAT: 39.565008 / LONG:-80.717338 H14 513971 - LAT: 39.564976 / LONG:-80.717371 H15 513972 - LAT: 39.564943 / LONG:-80.717405 H16 513973 - LAT: 39.564911 / LONG:-80.717438 H17 513974 - LAT: 39.564879 / LONG:-80.717471

H18 513975 - LAT: 39.564847 / LONG:-80.717504



PNG 102 WELL PAD FINAL SITE DESIGN, CONSTRUCTION PLANS, & **EROSION & SEDIMENT CONTROL PLANS** EQT PRODUCTION COMPANY



SITE LOCATIONS NAD 83			
Control of the Contro	LATITUDE	LONGITUDE	
Bogsning of Main Agents Road	39.584393	-80 F07414	
Center of Completion I'd	39.508031	-60 712364	
Certer of Flowback Pit	30 569027	60.711592	
Carser of West Pad	39.565037	-80.717414	



Project Contacts

Chins Metrgar - EQT Production Company 304-848-0075 Off

Company 304-627-0367 Mobil 304-848-0039 Office

Surveyor & Engineer

Ben Singleton - PS - Allegheny Surveys Inc. 304-649-8608 Off.

Thomas D. Corathers - PE . PS- Horser Brothers Engineers 304-624-6445 Office

Design Certification

The drawings, construction notes, and referen The drawings, construction notes, and relevance diagrams allocated hereto have been prepaised in accordance with the West Virgins Code of State Rules, Dissipan of Environmental Protection, Office of Od and Gas §25-4-21. The internation reflects a temporary fine pit point. The computed acknowledge of the protection of the protection of the computed debug grade storage violation as less than 15 acro feel. filling method purised, fine, pood as lend.

West Virginia Coordina State Plane Grid North Elevations NAVD88 Established By Survey Grad

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KENNETH & VICKY VANDYNE THACKES SITE DISTURBANCE

MAIN ACCESS ROAD - BEZ ARES

TM 14 - PCL 15 DOHALD & MYRNA MASON 117 ACRES SITE DISTURBANCE

MAIN ACCESS ROAD . 5.64 ACRES TIMBER REMOVAL = 0.92 ACRES

IM 13-PCL 17 LAURA ANN SLATER UG ACRES SITE DISTURBANCE

MAIN ACCESS ROAD = 2 AS ACRES

MAIN ACCESS HOAD = 271 ACKES TIMBER & BRUSH STORAGE = 0 14 TIMBER REMOVAL = 3 64 ACRES

MAIN ACCESS ROAD = 3.34 ACRES TIMBER & BRUSH STORAGE = 0.74 ACRES FOR A DISTURBANCE = 4.65 ACRES TIMBER REMOVAL = 3.93 ACRES

MAIN ACCESS ROAD = 4 ST ACRES HOWBACK SPOR. - 101 ACRES I LOWBACK PT - 201 ACRES I LOWBACK PT - 201 ACRES COMPLETION PT - 5 24 ACRES COMPLETION PT - 5 24 ACRES COMPLETION PT - 5 24 ACRES TOP SOR STOCKPRE - 4 11 ACRES TIMORE & ORUSH STOCKRES - 1 85 ACRES

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IM 12 PCL 40 KENNETH & VICKY VANDYNE 42 33 ACRES SITE DISTURBANCE

MAIN ACCESS BOAD = 4 NS ACRES COMPLETION PIT SPOIL = 0.32 ACRES TOP SOIL STOCKPILE = 0.08 ACRES EXCESS MATERIAL STOCKPILE = 4.40 ACRES TIMBER REMOVAL + 10 22 ACRE

TM 13 - PCL E3 VIRGINA MILLER & BONALD RATLEFF SWACHES SITE DISTURBANCE

MAIN ACCESS ROAD = 0.15 TOP SON STOCKPILE - Z 11 ACRES WELL PAD = 5.33 ACRES THRUE REMOVAL = 750 ACRES

KENNETH & LORAINE HIGHLEY 20:172 ACRES SITE DISTURBANCE

TIMBER REMOVAL + 9 85 ACRES



Engine

TM 13 - PCL 84

MAIN ACCESS ROAD = 0.43 ACRES WELL PAD = 0.42 ACRES

FINAL REVIEW

NOT FOR CONSTRUCTION

SHEET INDEX

COVER SHEET / LOCATION MAP

COVEN SHEET / LOCATION MAP
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THIS DOCUMENT

COMPANY

WELL PAD SITE

OVERVIEW PLAN
FINAL DESIGN PLANS
WELL PAD PROFILE & CHOSS SECTIONS
COMPLETION THE PROFILE & CHOSS SECTIONS
FLOWBACK PIT PROFILE & CHOSS SECTIONS
MAIN ACCESS ROAD PROFILE
M 5 6-12 13-14 15-16 17 18-20 21-34 35-37 38-44 DATE 6-15-16

Date: 4/17/2015 Scale: AS SHOW Designed Re. TRC File No. Contract 1 44 44

