

## 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

#### PERMIT MODIFICATION APPROVAL

June 22, 2016

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit Modification Approval for API Number 9502346, Well #: DEAN UNIT 1H

# Corrected Coordinates and Lengthened Lateral

# Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith

Assistant Chief of Permitting

Office of Oil and Gas

WW-6B (04/15) API NO. 47- 095 \_\_ - 02346 AON OPERATOR WELL NO. Dean Unit 1H
Well Pad Name: Weigle East Pad

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

1) Well Operator: Antero Res	ources Corpora	494507062	095 - Tyler	Ellsworth Shirley 7.5'
		Operator ID	County	District Quadrangle
2) Operator's Well Number: De	ean Unit 1H	Well Pa	d Name: Weig	le East Pad
3) Farm Name/Surface Owner:	Edwin C. Weigle	Public Roa	ad Access: CR	18/14
4) Elevation, current ground:	812' El	evation, proposed	post-construct	ion: 812'
5) Well Type (a) Gas X Other	Oil	Und	erground Stora	ge
	rizontal X	Deep	0	
6) Existing Pad: Yes or No Yes	s			
7) Proposed Target Formation(s Marcellus Shale: 6500' TVD, A				
8) Proposed Total Vertical Dept	h: 6500' TVD			
9) Formation at Total Vertical D		Shale		
10) Proposed Total Measured D	epth: 16,700' N	1D		
11) Proposed Horizontal Leg Le	ength: 9449'	-		
12) Approximate Fresh Water S	trata Depths:	9', 194', 366'		
<ul><li>13) Method to Determine Fresh</li><li>14) Approximate Saltwater Dep</li></ul>	_		(API# 47-095	-02169) on same pad.
15) Approximate Coal Seam De	epths: 1380', 146	1'		
16) Approximate Depth to Poss	ible Void (coal mi	ne, karst, other):	None Anticipa	ated
17) Does Proposed well location directly overlying or adjacent to		ns Yes	No	X
(a) If Yes, provide Mine Info:	Name:			Received
4, 5, 30 0 10 10 10 10 10 10 10 10 10 10 10 10	Depth:			Office of Oil & Gas
	Seam:			MAY 2 3 2016
	Owner:			

WW-6B (04/15) API NO. 47- 095 - 02346 MOD

OPERATOR WELL NO. Dean Unit 1H
Well Pad Name: Weigle East Pad

18)

# CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	60'	60'	CTS, 164 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	440'	440'*see #19	CTS, 611 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2450'	2450'	CTS, 998 Cu. Ft.
Intermediate	ju						
Production	5-1/2"	New	P-110	20#	16,700'	16,700'	4200 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Lead-H/POZ & Tall - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners	1 - 7 -						

# **PACKERS**

Kind:	N/A	Received
Sizes:	N/A	Office of Oil & Gas
Depths Set:	N/A	MAY 2 3 2016

WW-6B (10/14)

API NO. 47- 095 - 02346 사항

OPERATOR WELL NO. Dean Unit 1H

Well Pad Name: Weigle East Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

\*Antero will be air drilling the fresh water string which makes it difficult to determine when freshwater is encountered, therefore we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.17 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 3.22 acres (\*expanded LOD)

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tall cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Received
Office of Oil & Gas

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity 3 40 to fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

\*Note: Attach additional sheets as needed.

# 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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Kathy Ann Seago Lease			
Kathy Ann Seago as a beneficiary of the Estate of Edwin C. Weigle, deceased	Antero Resources Appalachian Corporation	1/8+	0402/0448
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Richard L. Seago, et ux Lease			
Richard L. Seago	Antero Resources Appalachian Corporation	1/8+	0403/0733
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Robert L. Dean Lease V			
Robert L. Dean	Antero Resources Appalachian Corporation	1/8+	0410/0659
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
James E. Gregg, et ux Lease			
James E. Gregg, et ux	Antero Resources Appalachian Corporation	1/8+	0408/0460
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
John H. Crumrine, et al Lease			
John H. Crumrine, et al	Drilling Appalachian Corporation	1/8	0257/0521
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	0422/0074
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
WVDNR Lease			
West Virginia Division of Natural Resources	Antero Resources Corporation	1/8+	0483/0269
Tyler County Fair Association Lease			
Tyler County Fair Association, Inc.	Antero Resources Appalachian Corporation	1/8+	0424/0521
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Kathy A. Keating Lease			
Kathy A. Keating	Antero Resources Corporation	1/8+	0438/0438
David M. Smith Lease			
David M. Smith	Antero Resources Corporation	1/8+	Received
		Of	fice of Oil & Gas

MAY 2 3 2016

<sup>\*</sup>Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

WW-6A1 (5/13)

Operator's	Well No.	Dean Unit 1H	
	DOMESTIC AND ADDRESS.		

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Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Benjamin F. Hill, et ux Lease				
В	enjamin F. Hill	Antero Resources Corporation	1/8+	0424/0549

#### 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:

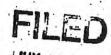
- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- · U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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 of Oil & Gas permits/approvals should be acquired from the appropriate authority before the affected activity is initiated of Oil & Gas

2016

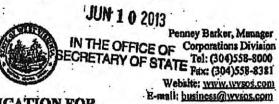
Page 1 of

# **ORM WW-6A1 EXHIBIT 1**



Natalie E. Tennant. Secretary of State 1900 Kanawha Bivd E Bldg 1, Suite 157-K Charleston, WV 25305

FILE ONE ORIGINAL (Twe if you want a Med . stamped copy returned to you) FEE: \$25:00

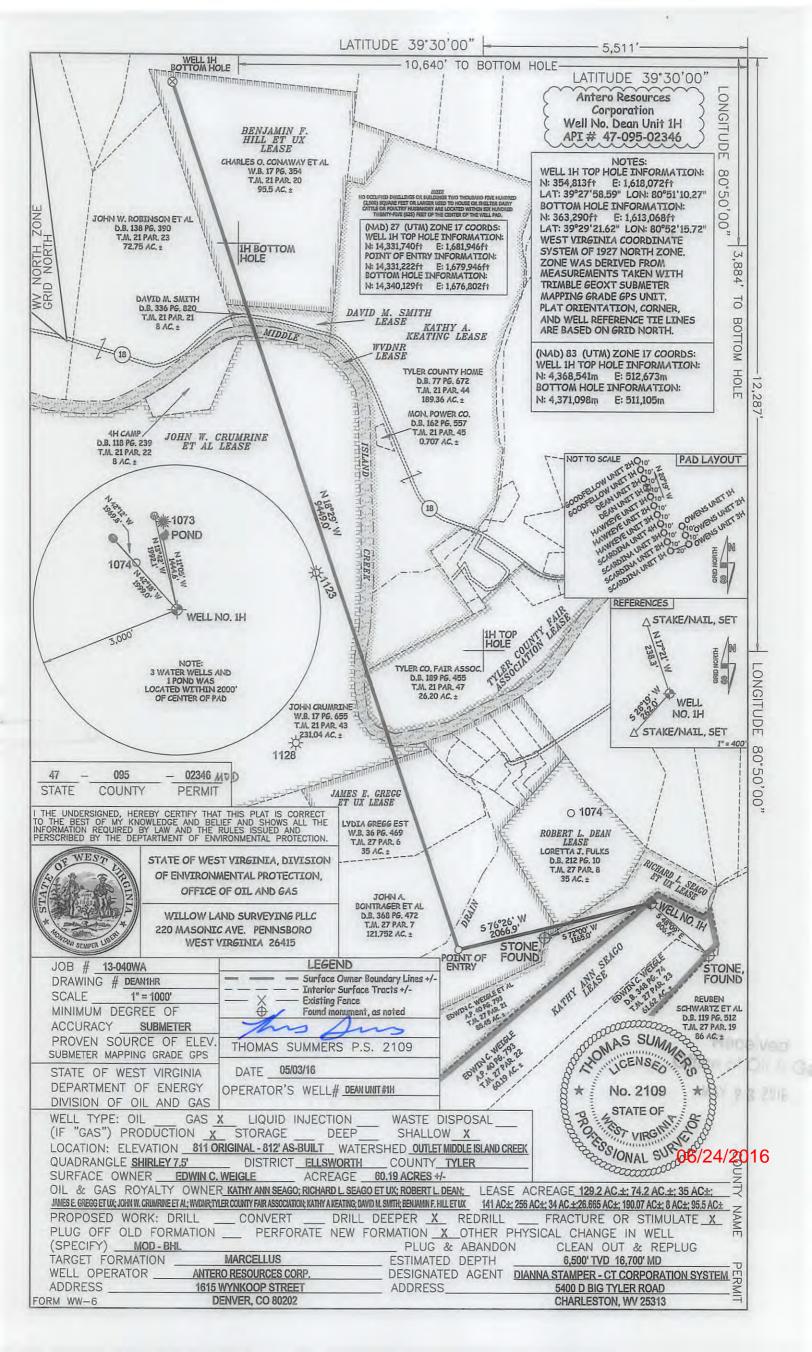


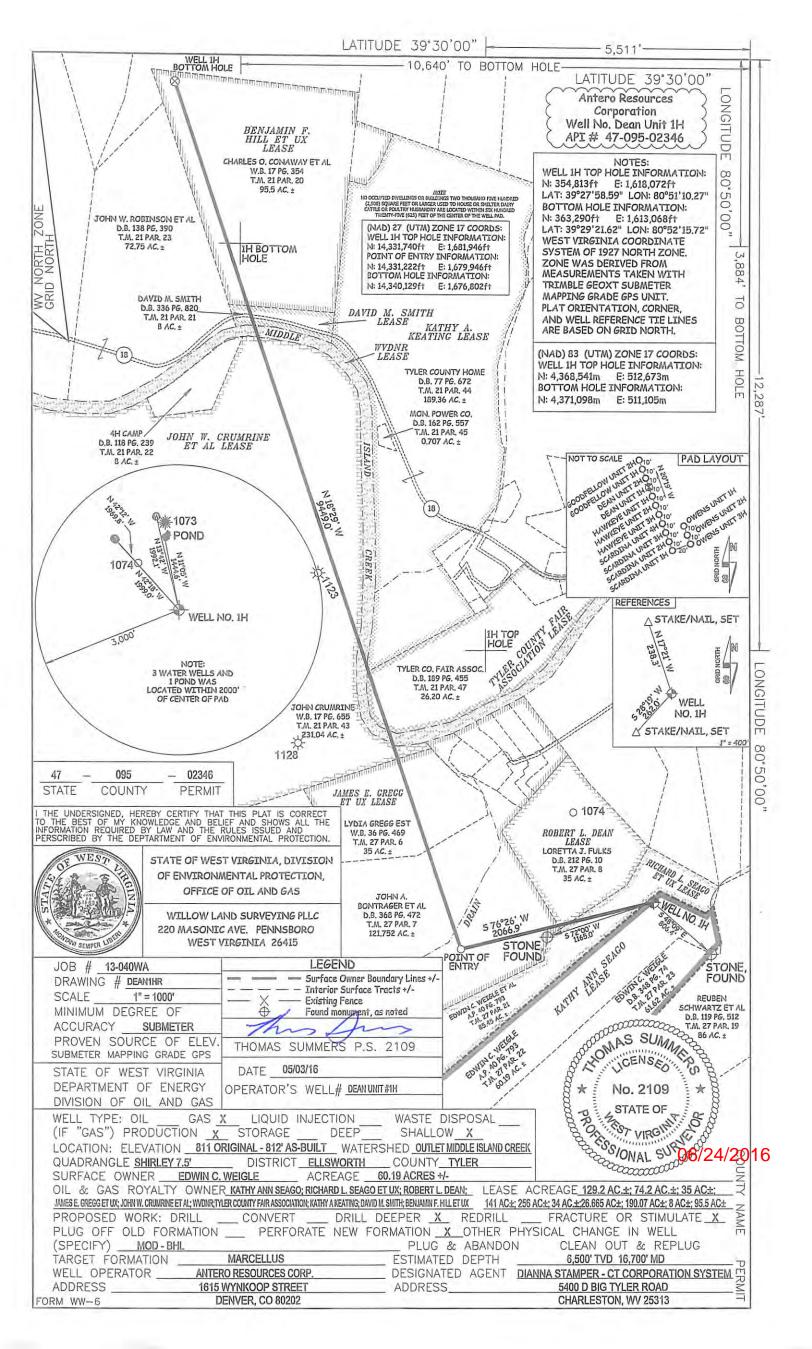
APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

Office Hours: Monday - Friday 8:30 a.m. - 5:00 p.m. BT

	applies for an Amended Cortificate of Au	thorly and submits the following statement:	eny	
1.	Name under which the corporation was authorized to transact business in WV:	Antero Resources Appalachian Corporation	<u> </u>	
2	Date Certificate of Authority was issued in West Virginia:	6/25/2008		
3,	Corporate name has been changed to: (Attach one <u>Certified Conv of Name Change</u> as filed in home State of incorporation.)	Antero Resources Corporation		×
١.	Name the corporation elects to use in WV: (due to home state name not being available)	Antero Resources Corporation		10
5.	Other amendments: (attach additional pages if necessary)	,		
				m a
	Name and phone number of contact person. ( the filing, listing a contact person and phone num document.)			
	Alvyn A. Schopp	(303) 357-7310		
	Contact Name	Phone Number		- 1
	Signature information (See below *Important	Legal Notice Reparding Signature):	1.5	1
	Print Name of Signer: Aleyn A. Schopp	Title/Capacity: Authorized Pe	rson	
	Signature: 4370 Chorps	Date: June 10, 2013	<del></del>	* .
the	portant Legal Notice Regarding Signature: For West Virgi person value signs a document list or she knows in fishe in an a secretary of state for filing is guilty of a misdomesnor and, and dollars or confissed in the county or regional juli not mo	y material respect and knows that the document is to be upon conviction thereof, shall be fined not more than o	e delivered	)il & Ga
			MAIZ (	2010
(H)	CF-4 Issued by the Office	of the Secretary of Sinto	Control dis	1

WYOLL - OF E/2013 Walsin Kloner Callet







May 19, 2016

Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Ms. Melanie Hankins 601 57th Street Charleston, WV 25304

Ms. Hankins:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for two approved wells on the Weigle East Pad. We are requesting to extend the horizontal lateral lengths which will change the bottom hole locations of the Dean Unit 1H (API# 47-095-02346) and Dean Unit 2H (API# 47-095-02347).

Attached you will find the following documents:

- > REVISED Form WW-6B, which shows the revised lateral lengths, Measured Depths and Production Casing/Cement programs
- REVISED Form WW-6A1, which shows the new leases we will be drilling into
- REVISED Mylar Plats, which shows the new bottom hole locations

If you have any questions please feel free to contact me at (303) 357-7323.

Thank you in advance for your consideration.

Sincerely,

Ashlie Steele

Permitting Supervisor

Antero Resources Corporation

ble Stelle

Received Office of Oil & Gas

MAY 2 3 2016

Enclosures



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

Todd Klaner Manager, Permitting

June 7, 2016

James Martin, Chief WV Dept. of Environmental Protection Division of Oil and Gas 601 57th St East Charleston, WV 25304

RE: Well Permit # 017-06751, 017-06752, 017-06753 & 017-06754 EQT Production Company Doddridge County

Dear Mr. Martin,

This letter is in response to the comments received by the WVDEP for EQT's CPT10 proposed well pad.

To address the primary concerns:

#### **Public Meeting**

There is no plan at this time to hold a public meeting.

#### **Permit Document Issues**

The documentation that our surveyor provided to us was non-compliant. The problem has been rectified and we provided the corrected plat to the WVDEP.

#### Water Well Location and Testing

Sampling typically is initiated much closer to the time that a drill rig is expected to be on site. A 3<sup>rd</sup> party lab will attempt to make arrangements to sample water supplies prior to the initiation of our operations. WVDEP regulations only require the sampling of water located within 1,500 feet from the center of the proposed well pad; EQT samples up to 2500'. If sampling is refused by the surface owner and later it is suspected that water has been impacted by our drilling operations, it will be up to the surface owner to provide conclusive evidence that a change in the attributes of the water supply is a result of our operations.

#### Site Plan Issues/Closed Loop Systems

EQT has redesigned the appurtenant features of the CPT10 site, a reduction in the amount of temporary impacts is proposed. Rather than pits, we will be using above ground storage tanks. EQT complies with the Erosion and Sediment Control Standards set forth by the WVDEP. EQT retains responsibility for unintended physical damages to property resulting from our operations although none are expected to occur.

#### Site Specific Safety Plan

The Safety Plan for the site addresses questions regarding emergency procedures, air quality, flaring, etc., was included in the permit application that was submitted to the WVDEP. Once approved, a copy of this plan will be located at the drillsite.

#### Roads

EQT will make improvements to the public road prior to beginning operations at the well site. While EQT did consider using McIntire Fork for access, it ultimately concluded that access from McIntire Fork would have increased our



environmental impacts. A road permit (MM109) has been applied for, a Road Maintenance Bonding Agreement has been signed and EQT is in compliance with the DOH Oil and Gas Policy.

#### Site Design

The site was designed to utilize existing topography to minimize the necessary earthwork and clearing required to construct and operate the site. We have committed to redesigning some parts of the site that will eliminate the use of pits, as described in the "Site Plan Issues" section of this letter.

### Lateral Close to Existing Lateral

The Jay-Bee wellbore is located approximately 462' from the proposed lateral of CPT10H4. EQT geologists perform area studies and plan wells with knowledge of competitor wells. The physical distance between the well bores, the orientation of the wellbores, and the anticipated fracture propagation influence combined with EQT's extensive experience with horizontal drilling agree that there should be no unintended communication between these wells or with any other current or plugged well in the area. EQT owns or has development rights for all leases in which the proposed CPT10 pad and laterals will be located.

#### Air Quality Concerns

EQT operates consistent with the DEP regulations in regard to air quality.

#### Ground Water & Surface Water Protection Concerns

As stated above in the Water Sampling paragraph, WVDEP regulations only require the sampling of water located within 1,500 feet from the center of the proposed well pad. Above ground storage tanks will be used instead of pits.

We have revised the previously proposed pond to accommodate enough tankage to manage our water and thus, drill cuttings and flowback water will now be managed without using in-ground pits for storage.

The pad specific hydraulic fracture plan for Ritchie County was created because of the potential communication between deep geologic zones unique to the area of that well pad. These zones do not exist in in this area collaborated with drilling logs from surrounding wells; therefore the plan is not necessary in this area.

#### **Light and Noise**

EQT had a Sound Impact Assessment performed by a 3<sup>rd</sup> party that investigated the anticipated sound impact of drilling and fracturing operations on the CPT10 well pad. The noise levels are not expected to be intrusive. Although a soundwall is not anticipated to be necessary due to the site location and surrounding topography, EQT shall construct various walls as a precaution.

Regards,

Todd Klaner

Manager, Permitting

**EQT Production Company** 

CC:

Well File



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

Todd Klaner Manager, Permitting

June 7, 2016

James Martin, Chief WV Dept. of Environmental Protection Division of Oil and Gas 601 57<sup>th</sup> St East Charleston, WV 25304

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Todd Klaner

Manager, Permitting

**EQT Production Company** 

CC:

Well File

# Adkins, Laura L

From: Adkins, Laura L

**Sent:** Monday, June 13, 2016 10:05 AM

To: 'Mallory Stanton'

Cc: 'Ashlie Steele'; Dani DeVito (ddevito@pasenergy.com)

Subject: Modifications Weigle East Pad 95-02346 and 95-02347

Mallory,

I pulled the Weigle East mods this morning to review and found that two of them have top hole coordinates transposed. Can you please verify the top hole coordinates for the Dean Unit 1H and the Dean Unit 2H.

Thank you,

# Laura L. Adkins

Environmental Resource Specialist III Permit Review WVDEP Office of Oil and Gas 601 57<sup>th</sup> Street, SE Charleston, WV 25304 304-926-0499 ext. 1495

THE ITEMS REQUESTED IN THIS EMAIL WILL NEED TO BE RECEIVED BY THE OFFICE OF OIL AND GAS WITHIN **20 DAYS** TO AVOID THE PERMIT APPLICATION BEING RETURNED. IF AN OPERATOR WISHES TO RESUBMIT AN APPLICATION THAT HAS BEEN RETURNED, THE OPERATOR IS REQUIRED TO COMPLETE AND SUBMIT NEW FORMS, MYLAR PLAT AND ASSOCIATED FEES.

