



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, October 17, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit Modification Approval for DENVER 5H
47-103-03515-00-00

Cement Variance Update to use Class A/L

EQT PRODUCTION COMPANY

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.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, Chief. The signature is stylized and written in a cursive-like font.
James A. Martin
Chief

Operator's Well Number: DENVER 5H
Farm Name: AUDREY L LAVELLE
U.S. WELL NUMBER: 47-103-03515-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/17/2022

Promoting a healthy environment.

10/21/2022

CK#
0000594075
\$2500⁰⁰

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

1) Well Operator: EQT Production Company 306686 Wetzel Center Littleton
Operator ID County District Quadrangle

2) Operator's Well Number: 5H Well Pad Name: Denver

3) Farm Name/Surface Owner: Audrey L Lavelle Public Road Access: CR 7/11

4) Elevation, current ground: 1,352' Elevation, proposed post-construction: 1,352'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,478', 50', 2,620 psi

8) Proposed Total Vertical Depth: 7,478'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,540'

11) Proposed Horizontal Leg Length: 10,522'

12) Approximate Fresh Water Strata Depths: 17', 236'

13) Method to Determine Fresh Water Depths: Offset Wells - 47-103-01750 & 47-103-02399

14) Approximate Saltwater Depths: 1,842', 1,975'

15) Approximate Coal Seam Depths: 780'-783', 1,020'-1,023', 1,123'-1,128'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

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(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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	26	New	A252 GR 3 Bare	85.6	40	40	49 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1178	1178	1085 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2605	2605	1010 ft ³ / CTS
Production	6	New	P-110	24	18540	18540	500' above intermediate casing
Tubing							
Liners							

Kenneth Greynolds Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds, email = Kenneth.L.Greynolds@nw.gov, c = AD O = WVDOP, ou = Oil and Gas
 Date: 2022.09.19 12:41:20 -0400

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	26	30	0.312	1000	18	Class A/L	1.04 - 1.20
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A/L	1.04 - 1.20
Coal							
Intermediate	9 5/8	12 3/8	0.352	3520	2816	Class A/L	1.04 - 1.20
Production	6	8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A - Site Built

22) Area to be disturbed for well pad only, less access road (acres): N/A - Site Built

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500’.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500’.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP.

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

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Conductor: Class A no additives
 Surface: Calcium Chloride. Used to speed the setting of cement slurries
 Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.
 Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

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25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
 Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
 Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

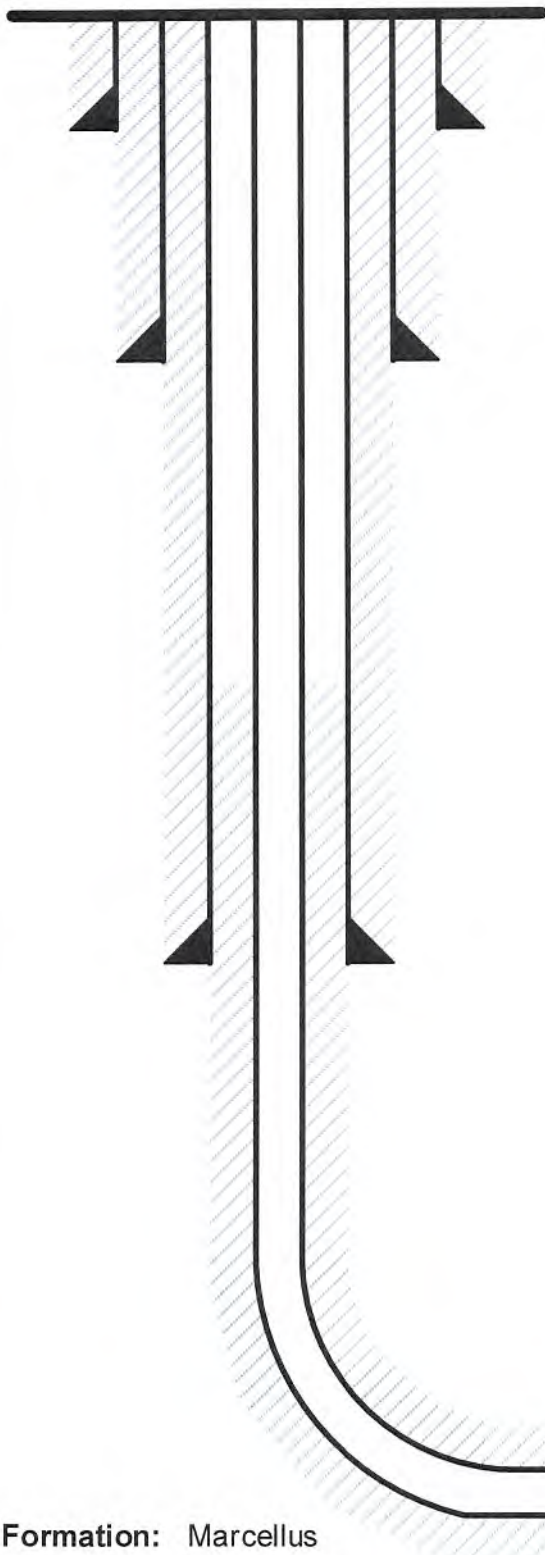
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Denver 5H
Pad: Denver
Elevation: 1350' GL 1363' KB

County: Wetzel
State: West Virginia



Conductor @ 40'

26", 85.6#, A252 GR3 Bare, cement to surface w/ Class A/L

Surface @ 1,178'

13-3/8", 54.5#, J-55, cement to surface w/ Class A/L

Intermediate @ 2,605'

9-5/8", 36#, J-55, cement to surface w/ Class A/L

Production @ 18,540' MD / 7,478' TVD

6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

Formation: Marcellus

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Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas
Date: 2022.09.18 12:42:01 -0400

NOT TO SCALE 10/21/2022



September 27, 2022

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

Re: Class L Cement Variance Request
Denver 5H Well
Permit Number 47-103-03515
Center District, Wetzell County

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR8, Section 9.2.h.8, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

A handwritten signature in blue ink, appearing to read 'John Zavatchan'.

John Zavatchan
Project Specialist - Permitting

Enc.

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WV Department of
Environment **10/21/2022**



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
dep.wv.gov

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

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4) ORDER NO. 2022-14
SECTION 11.5 AND LEGISLATIVE RULE)
35CSR8 SECTION 9.2.h.8.,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

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FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

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4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

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

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

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, Chief
Office of Oil and Gas

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DENVER WW-6B FORM 1H, 3H, 5H, 7H, 9H

7018 0360 0001 7428 1554

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Littleton, WV 26581

Certified Mail Fee	\$4.00
Extra Services & Fees (check box, add fee as appropriate)	\$3.25
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage	\$2.16
Total Postage and Fees	\$9.41



Audrey Lavelle
22820 Mountaineer Hwy
Littleton, WV 26581

for Instructions

7018 0360 0001 7428 1561

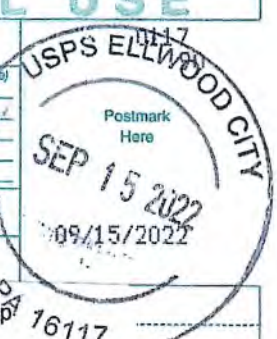
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Huntington, WV 25705

Certified Mail Fee	\$4.00
Extra Services & Fees (check box, add fee as appropriate)	\$3.25
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00

Postage	\$2.16
Total Postage and Fees	\$9.41



New Gauley Coal Corp
5260 Irwin Road
Huntington, WV 25705

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10/21/2022

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.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Gregory F. Wooten, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 28, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>537777 873</u>
County: <u>Wetzel</u>		Northing: <u>4387423 239</u>
District: <u>Center</u>	Public Road Access: <u>CR 7/11</u>	
Quadrangle: <u>Littleton</u>	Generally used farm name: <u>Denver</u>	
Watershed: <u>Lower West Virginia Fork Fish Creek</u>		

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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: <u>Gregory F. Wooten</u></p> <p>Its: <u>Senior VP - Chief Engineer</u></p> <p>Signature: </p> <p>Date: <u>10/11/22</u></p>
--	--

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 deprivacyofficer@wv.gov.

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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.

VOLUNTARY STATEMENT OF NO OBJECTION

I, TRISTA R. CAMPBELL, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form 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 tract of land as follows:


State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>53777 873</u>
County:	<u>Wetzel</u>		Northing:	<u>4387423 239</u>
District:	<u>Center</u>	Public Road Access:		<u>CR 7/11</u>
Quadrangle:	<u>Littleton</u>	Generally used farm name:		<u>Denver</u>
Watershed:	<u>Lower West Virginia Fork Fish Creek</u>			

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: TRISTA R. CAMPBELL
 Date: 10/13/2022

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.

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September 27, 2022

Via FedEx Overnight

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304

RE: Well Work Permit Modification Application
Denver 5H Well
Permit Number 47-103-03515
Center District
Wetzel County, WV

WVDEP Recipient,

Attached please find following information to modify the existing Well Work Permit for this well:

- Check in the amount of \$2,500.00
- Completed Form WW-6B and supporting documents, approved by the Oil and Gas Inspector
- Revised Well Bore Diagram
- Cement Variance Request Cover Letter
- Class L Cement Variance as approved by the WVDEP
- Proof of notification of the surface owner and coal related parties

This modification is to add the potential use of Class L cement as an option for casing and cementing of this well.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our Permitting department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Best Regards,

John Zavatchan
Project Specialist – Permitting
jzavatchan@eqt.com
724-746-9073

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Environmental Protection

10/21/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

RE: [EXTERNAL] Re: Denver Cement Mods currently under review

1 message

Fri, Oct 14, 2022 at 8:16 AM

Zavatchan, John <JZavatchan@eqt.com>
To: "Stansberry, Wade A" <wade.a.stansberry@wv.gov>

Yes sir.

JZ

From: Stansberry, Wade A <wade.a.stansberry@wv.gov>
Sent: Friday, October 14, 2022 8:14 AM
To: Zavatchan, John <JZavatchan@eqt.com>
Subject: Re: [EXTERNAL] Re: Denver Cement Mods currently under review

Same for the Coal Owner, is he a representative of the Coal Operator?

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

On Thu, Oct 13, 2022 at 3:13 PM Zavatchan, John <JZavatchan@eqt.com> wrote:

Sure thing - Campbell is the executor of the Lavelle estate.

JZ

On Oct 13, 2022, at 15:05, Stansberry, Wade A <wade.a.stansberry@wv.gov> wrote:

:::This email is from an external source. Please use caution when clicking links or opening attachments:::

For the Denver waivers, they don't appear to match the names listed on the notices. Can you explain why?

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

10/21/2022

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

On Thu, Oct 13, 2022 at 2:18 PM Zavatchan, John <JZavatchan@eqt.com> wrote:

Good afternoon gentlemen.

We currently have modification to add Class L cement under review for the following wells:

- Denver 1H – Permit Number 47-103-03513
- Denver 3H – Permit Number 47-103-03514
- Denver 5H – Permit Number 47-103-03515
- Denver 7H – Permit Number 47-103-03365
- Denver 9H – Permit Number 47-103-03516

We were able to secure the attached waivers from the interested parties, waiving the 30 day notification period.

We would like to start vertical drilling on these wells on October 23rd. Is there any chance, since we have secured these waivers, that we can have these modifications issued at your earliest convenience?

Thanks,

JZ

From: Zavatchan, John
Sent: Thursday, September 29, 2022 9:35 AM
To: Stansberry, Wade A <wade.a.stansberry@wv.gov>
Cc: Wilson, Olivia <OPishioneri@eqt.com>; Shrum, Becky <BShrum@eqt.com>
Subject: RE: [EXTERNAL] Re: Upcoming Cement Mods

Here are the revised Denver letters.

JZ

From: Stansberry, Wade A <wade.a.stansberry@wv.gov>
Sent: Thursday, September 29, 2022 9:21 AM
To: Zavatchan, John <JZavatchan@eqt.com>
Cc: Wilson, Olivia <OPishioneri@eqt.com>; Shrum, Becky <BShrum@eqt.com>
Subject: [EXTERNAL] Re: Upcoming Cement Mods

..:This email is from an external source. Please use caution when clicking links or opening attachments::.

10/21/2022

John,

On the letter you submitted for the Variance for each of these modifications, you need to update it with the correct reference "**35CSR8, Section 9.2.h.8**", not 35CSR4 Section 11.5 since this is for a horizontal permit.

The rest of the letter looks fine. I've highlighted what needs to be changed.

You can send me the updated letter when you have it and I'll place it with the permits.

For the revisions to the Haggard applications, make sure it is the same for that letter as well.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

On Tue, Sep 27, 2022 at 4:26 PM Zavatchan, John <JZavatchan@eqt.com> wrote:

Taylor,

I will be shipping the mods highlighted below to you today, so you should have them tomorrow.

Cragin, for the Haggard permits under review, I'll have the updated info to you tomorrow. Do you want a hard copy or is e-mail acceptable?

Thanks,

John Zavatchan

Project Specialist – Permitting

EQT Production Company

[400 Woodcliff Drive](#)

[Canonsburg, PA 15317](#)

412-584-3132

jzavatchan@eqt.com

Schedule B

From: Zavatchan, John

Sent: Thursday, September 15, 2022 2:38 PM

To: Brewer, Charles T <charles.t.brewer@wv.gov>

Subject: Upcoming Cement Mods

10/21/2022

Taylor, here is the list of wells we will be revising in the near future:

These have been submitted and placed on operator hold:

- Haggard 2H – 47-103-03526
- Haggard 4H – 47-103-03527
- Haggard 6H – 47-103-03528
- Haggard 10H – 47-103-03529
- Haggard 12H – 47-103-03530
- Haggard 14H – 47-103-03531
- Haggard 16H – 47-103-03532

These wells have issued permits and mods will be submitted in 7-10 days:

- Haggard 8H (47-103-03430)
- Cash 1H – Permit Number 47-103-03398
- Cash 3H – Permit Number 47-103-03524
- Cash 5H – Permit Number 47-103-03523
- Cash 7H – Permit Number 47-103-03522
- Denver 1H – Permit Number 47-103-03513
- Denver 3H – Permit Number 47-103-03514
- Denver 5H – Permit Number 47-103-03515
- Denver 7H – Permit Number 47-103-03365
- Denver 9H – Permit Number 47-103-03516

Hope this helps!

John Zavatchan

Project Specialist – Permitting

EQT Production Company

400 Woodcliff Drive

Canonsburg, PA 15317

412-584-3132

jzavatchan@eqt.com

Schedule B

To learn about EQT's environmental, social and governance efforts visit: <https://esg.eqt.com>

10/21/2022



September 27, 2022

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

Re: Class L Cement Variance Request
Denver 5H Well
Permit Number 47-103-03515
Center District, Wetzel County

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR4 Section 11.5, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan
Project Specialist - Permitting

VOID

RECEIVED
Office of Oil and Gas

SEP 28 2022

WV Department of
Environmental Protection

Enc.

10/21/2022



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Modification Horizontal H6A Well Work Permit (47-103-03365, 103-03513, 103-03514, 103-03515, 103-03516)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Mon, Oct 17, 2022 at 11:09 AM

To: John <JZavatchan@eqt.com>, "Shrum, Becky" <bshrums@eqt.com>, Erin Spine <espine@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, Todd <tklaner@eqt.com>, Scott Lemley <slemley@wvassessor.com>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>

I have attached a copy of the newly issued well [permit](#) number(s). This will serve as your copy.

47-103-03365 - DENVER 7H**47-103-03513 - DENVER 1H****47-103-03514 - DENVER 3H****47-103-03515 - DENVER 5H****47-103-03516 - DENVER 9H**

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry**Environmental Resource Specialist 3****West Virginia Department of Environmental Protection****Office of Oil & Gas****601 57th St. SE****Charleston, WV 25304****(304) 926-0499 ext. 41115****(304) 926-0452 fax****Wade.A.Stansberry@wv.gov**

5 attachments **47-103-03516 - mod.pdf**
889K **47-103-03365 - mod.pdf**
865K **47-103-03513 - mod.pdf**
913K **47-103-03514 - mod.pdf**
895K **47-103-03515 - mod.pdf**
893K**10/21/2022**