



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

Tuesday, December 13, 2022
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for MICHAEL 1H
47-049-02278-00-00

Cement Variance

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.

James A. Martin
Chief

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: MICHAEL 1H
Farm Name: MICHAEL, WILLIAM J. & JUANITA O.
U.S. WELL NUMBER: 47-049-02278-00-00
Horizontal 6A Plugging
Date Modification Issued: 12/13/2022

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October 26, 2022

Via FedEx Overnight Delivery

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Mr. Jeff McLaughlin
601 57th Street SE
Charleston, WV 25304-2345

RE: Modification of Permits to Plug and Abandon Wells
Michael Well Site
Mannington District
Marion County, WV

Mr. McLaughlin:

Enclosed please find modifications to the plugging permits for the following wells:

- Michael 1H – Permit Number 47-049-02278
- Michael 2H - Permit Number 47-049-02279

EQT is proposing to add Class L cement as an option for plugging these wells. Each modification application includes:

- Letter requesting the use of Class L cement
- Copy of the variance issued by WVDEP
- Updated plugging prognosis
- Proof of notification of surface owners and coal related parties

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 land 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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October 18, 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
Michael 1H Well
Permit Number 47-049-02278
Mannington District, Marion 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

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Office of Oil and Gas
601 57th Street, SE
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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)
SECTION 14.1. AND LEGISLATIVE RULE)
35CSR8 SECTION 20.1,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

ORDER NO. 2022-13

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 plugging.

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FINDINGS OF FACT

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1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 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 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal 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 plugging 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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Michael IH
Marion Co., WV
HZ Marcellus well
API # 47-049-02278
BY: Tyler Mizgorski
DATE: 10/19/2022

CURRENT STATUS:

Elevation @ 1,390
20" J-55 94 ppf conductor @ 110' No mention of cement
13 3/8" J55 54.5 ppf casing @ 1,250' Type 1 Cement to Surface
9 5/8" J55 – 33 ppf casing @ 3,008' Type 1 Cement to Surface
5 1/2" P110 – 20 ppf casing @ 12,991' Cemented to Surface

Well Not Completed

Fresh water @ 60', 150'

Salt water @ 1,525'

Coal Show @ 1200'

- 1) Notify Inspector **Ken Greynolds, (304) 206-6613, Kenneth.L.Greynolds@wv.gov** prior to beginning operations.
- 2) Check and record pressure on all casings, notify Engineer of recorded pressures.
- 3) Install 10k wireline BOP. Test BOP's and stack to regs. P/U install 10k lubricator. (**Call 8hrs before, will need crane truck**)
- 4) Equalize lubricator, if necessary and RIH w/ wireline to top of marcellus at 7,778' and set a CIBP above the Marcellus @ 7,728' MD. If unable to get to set depth, EQT office will call DEP to discuss options.
- 5) Hook up pump truck and pressure test lines to 8000 psi. (**Call pump truck 8hrs before**)
- 6) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 7) RIH and set second CIBP 10' above the first
- 8) POOH w/ wireline and load well with 6% gel if not full. Perform CIT with pump truck to 2000 psi. Ensure leak-off is not more than 10% in thirty minutes per regulation.
- 9) RIH with Renegade segmented bond log and pull log from CIBP to surface
- 10) TIH with tubing to CIBP.
- 11) Pump 1500' Class A or Class L cement plug. 7,718' to 6,218' Pump 500' of cement and pull 500' of tubing 2 times. Pump last 500' section and pull tubing 300' and reverse circulate full hole volume. TOOH 300'
- 12) Let cement dry for 8 hours and tag top of cement. If cement top is at 6,218' or close POOH to 3,150' and set a 500' C1A of Class L Cement plug from 3,150' to 2,650'. Pump 500' of cement and pull 500' of tubing. Pull tubing 300' and reverse circulate full hole volume. TOOH 300' (safety plug - 9 5/8" Casing Seat)
- 13) Let cement dry for 8 hours and tag top of cement. If cement top is at 2,650' POOH to 1,400'. Set a 400' C1A or Class L cement plug 1,400' to 1000'. TOOH 300' Reverse circulate full hole volume. TOOH 300' (13 3/8" casing seat – Coal Plug)
- 14) Let cement dry for 8 hours.
- 15) TIH with tubing and check TOC. IF at 1000' or close POOH to 350' and set C1A or Class L plug 350' to surface (Freshwater, and surface plug)
- 16) Reclaim location and Set Monument above ground to WV-DEP Specifications

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Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds email = Kenneth.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas
Date: 2022.10.24 12:59:54 -0400
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Kennedy, James P <james.p.kennedy@wv.gov>

Cement Modifications

1 message


Kennedy, James P <james.p.kennedy@wv.gov>

Tue, Dec 13, 2022 at 3:21 PM


To: "Zavatchan, John" <jzavatchan@eqt.com>, Samuel D Ward <samuel.d.ward@wv.gov>, "Shrum, Becky" <BShrum@eqt.com>, OPishioneri@eqt.com


To whom it may concern, Modifications have been issued for 4704902278 04902279 04902184 04902283 04902284.


5 attachments

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