



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20170302-1

Approval Date: March 9, 2017

Modification Date: December 8, 2017

CABOT OIL & GAS CORPORATION

**Surface Water Withdrawal (Peak Day), Variable, of up to 1.000 mgd
from Meshoppen Creek**

Section 1. Approval

After review of the record, including the technical findings of Susquehanna River Basin Commission (Commission) staff, the Commission has determined that no significant adverse impacts are anticipated by the operation of this project as described and conditioned herein, the project is physically feasible, and does not conflict with or adversely affect the Commission's Comprehensive Plan. Accordingly, the Commission hereby approves modification of the project described herein in accordance with the conditions set forth below.

This approval is a modification of Commission Docket No. 20170302 that was originally approved March 9, 2017, with a peak day withdrawal rate of 0.500 million gallons per day (mgd) and special flow protection requirements. The project sponsor has requested an increase in the peak day withdrawal, variable (monthly) peak day withdrawal rates, and modification of the intake structure. Following technical review, and consistent with applicable regulatory standards, Commission staff recommended approval of the requested modifications including an increase of the approved rate of withdrawal to up to 1.000 mgd, herein referred to as the modified rates, from the modified intake. Commission staff also recommended special flow protection requirements consistent with current policy. This approval incorporates those recommendations.

Commission staff has coordinated with the Pennsylvania Department of Environmental Protection (PADEP), the Department of Conservation and Natural Resources (DCNR), and the Pennsylvania Fish and Boat Commission (PFBC) during review of this project.

Section 2. Project Information

Information concerning the project sponsor, water use type, and location are set forth in the table below.

Project Information	
Project Sponsor:	Cabot Oil & Gas Corporation
Approval Type:	Surface Water Withdrawal
Original Docket No.:	20170302
Authorized Water Use Purpose:	Hydrocarbon Development and Related Incidental Uses
Municipality:	Lemon Township
County:	Wyoming County
State:	Pennsylvania

Section 3. Source Information

Information concerning the source of water from which the withdrawal will be made is set forth in the table below.

Source Information	
Approved Source:	Meshoppen Creek
Subbasin:	Middle Susquehanna
Watershed Boundary Dataset (WBD):	0205010608 (Meshoppen Creek)
Water Use Designation:	Cold Water Fishery (CWF)
Withdrawal Location (degrees):	Lat: 41.627325 N Long: 75.944775 W
Site Flow Statistics (cfs):	Q7-10 = 1.5; Average Daily Flow = 47.2
Drainage Area (square miles):	46.2
Aquatic Resource Class*:	2
Special Flow Protection Required:	Yes
cfs – cubic feet per second	
* Refer to Commission Policy No. 2012-01 (Low Flow Protection Policy Related to Withdrawal Approvals)	

Section 4. Approved Withdrawal Quantities and Limitations

The withdrawal approved hereunder is subject to the quantitative limits and restrictions set forth in the table below.

Approved Withdrawal Quantities and Limitations	
Peak Day Withdrawal Amount (mgd):	Not to Exceed Values Contained in the “Withdrawal and Passby Schedule,” When Available
Maximum Instantaneous Withdrawal Rate (gpm):	Not to Exceed Values Contained in the “Withdrawal and Passby Schedule,” When Available
Flow Protection Type:	Seasonal passby expressed as monthly values
Method for Monitoring Flow Protection:	Off-site monitoring of USGS Real-Time Gage 01534000; Tunkhannock Creek near Tunkhannock, Pennsylvania

Approved Withdrawal Quantities and Limitations (continued)				
Withdrawal and Passby Schedule:				
<i>Month</i>	<i>Peak Day Withdrawal (mgd)</i>	<i>Maximum Instantaneous Withdrawal (gpm)</i>	<i>On-Site Flow Protection Rate (cfs)</i>	<i>Off-Site Monitoring Threshold for Flow Protection (cfs)*</i>
January	1.000	695	14	189
February	1.000	695	17	219
March	1.000	695	37	454
April	1.000	695	40	490
May	1.000	695	21	266
June	1.000	695	9.0	126
July	0.750	521	5.1	74
August	0.500	348	3.7	54
September	0.500	348	3.5	52
October	0.750	521	4.9	72
November	1.000	695	11	152
December	1.000	695	17	224
USGS– U.S. Geological Survey 1 cfs = 448.8 gallons per minute (gpm) * Flow Protection Threshold				

The withdrawal is also subject to all other conditions set forth in this docket approval.

Section 5. Standard Conditions

1. The project sponsor shall adhere to the intake design reviewed and approved by Commission staff, and shall obtain necessary general or individual permits from the jurisdictional permitting agency prior to use of the intake, prior to initiation of withdrawal at the modified rates. The project sponsor shall provide the Commission with a copy of the permit prior to operating the withdrawal at the modified rates. If subsequent design review by the permitting agency requires modification to the intake design, the project sponsor shall submit to the Commission a revised intake design for review and, if appropriate, approval by Commission staff prior to permit issuance by the permitting agency. Thereafter, any modifications proposed by the project sponsor for the permitted intake structure shall be submitted for review and, if appropriate, approval by Commission staff in accordance with Commission Regulations 18 CFR § 806.21 and § 806.23 prior to undertaking such modification(s).

2. Sixty (60) days prior to commencement of the withdrawal from the modified intake for operational purposes, the project sponsor shall post an updated sign that meets Commission specifications and displays required project description information. Signage specifications can be found at the Commission’s website (www.srbc.net), along with example sign templates for reference. The sign shall be maintained for the duration of the approval. Such sign shall be posted at the point of entry or access to the project facility from a public right-of-way. If there is any restriction to access at such point that would prevent an interested person from legibly

viewing such sign, then the project sponsor shall post the sign at the nearest location to such point, along the route of ingress and egress to same, where an interested person would have unrestricted access to legibly view such sign. The project sponsor shall submit photographs as proof of installation of the updated sign.

3. In accordance with Commission Regulation 18 CFR § 806.30(b)(2), the project sponsor shall report violations of any withdrawal limits and any conditions of this approval within five (5) days of such violation or report loss of measuring or recording capabilities required under Commission Regulation 18 CFR § 806.30(a)(1) within five (5) days after any such loss.

4. In accordance with Commission Regulation 18 CFR § 806.6, if ownership of the project changes or if the project sponsor undergoes a name change, the project sponsor shall submit application for transfer or reissuance of this approval to the Commission within ninety (90) days of the change in ownership or project sponsor name change.

5. This project is approved for inclusion in the Commission's Comprehensive Plan for the Water Resources of the Susquehanna River Basin.

6. The project sponsor is required to apply for and obtain approval prior to any increase in withdrawal that would exceed the amounts listed herein.

Section 6. Special Conditions

7. The project sponsor shall adhere to the metering plan submitted for this modification, which has been reviewed and approved by Commission staff. Any modifications proposed for the metering plan shall be submitted for review and, if appropriate, approval by Commission staff in accordance with Commission Regulation 18 CFR § 806.30. Modifications shall not be made until the project sponsor receives written approval of the amended plan.

8. Concurrent with commencement of the withdrawal from the modified intake for operational purposes, the project sponsor shall cease all withdrawals from the approved source when streamflow, as measured at the U.S. Geological Survey stream gage specified in Section 4, is less than the applicable flow protection threshold specified in Section 4, and shall not reinstate withdrawals until the streamflow has remained above such flow protection threshold for 48 hours.

9. Section 4 and Conditions 5, 7, 18, and 19 of Commission Docket No. 20170302 are hereby rescinded.

10. All other limitations and conditions in Commission Docket No. 20170302 not inconsistent herewith shall remain effective.

11. The project sponsor shall provide the Commission with fifteen (15) days advance notice of intent to commence withdrawal from the modified intake approved under Standard Condition 2.

Section 7. Term

12. Commission Docket No. 20170302-1 shall be effective upon commencement of the withdrawal from the modified intake for operational purposes.

13. The term of Commission Docket Nos. 20170302 and 20170302-1 shall remain effective until March 31, 2022. As specified in Commission Regulation 18 CFR § 806.31(e), if the project sponsor submits an application on or before September 30, 2021, the project sponsor may continue operation of this project pursuant to the terms and conditions of this approval until such time as the Commission acts on such application, or until otherwise notified by the Executive Director.

CERTIFICATION: I, Stephanie L. Richardson, Secretary to the Susquehanna River Basin Commission, do hereby certify that the foregoing project docket was approved by the Susquehanna River Basin Commission on December 8, 2017.

Dated: December 11, 2017



Stephanie L. Richardson