



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

December 31, 2012

Mr. Ken Garoutte
Cameco Resources
P.O. Box 1210
Glenrock, WY 82637

**RE: TFN 5 5/222, Minor Revision, MU-10 Well Field Approval with Conditions
Permit 633 Cameco Resources, Change No. 43, Revision No. 6**

Dear Mr. Garoutte:

This letter serves as Land Quality Division's (LQD) approval for the above referenced Minor Revision. The submittal has been reviewed by LQD staff and found to be technically adequate. All technical issues were completed under the T-5 review which is enclosed. Please note that there are five (5) conditions placed on the Form 11.


Receipt of this letter grants Cameco Resources permission to initiate mining in Mine Unit 10 with restrictions applied by the new permit conditions (see Form 11). In the event that revisions other than those listed on the Index of Changes inadvertently occurred within this package, those revisions are not automatically considered approved.

As a result of the wellfield addition to the permit, it will be necessary to revise the Table of Contents for the permit. Please submit an updated Table of Contents within **15 days** of this approval. LQD will insert the approved pages and maps into the permit document according to the Index of Changes. LQD will track this Minor Revision as **Change No. 43-R6**.

It is understood that surety dollars are included in the approved surety for mining in four header house pattern areas of the proposed Mine Unit 10. Therefore, mining is limited to no more than four header houses of operation at this time. Additional surety review will be needed prior to start-up of additional header houses.

If you have any questions, please contact pam.rothwell@wyo.gov or 307-777-7048.

Sincerely,


Nancy Nuttbrock
Administrator
Land Quality Division

/pcr

Enclosure: T5 Review & Form 11
cc: Ramona Christensen, LQD Records Manager
Doug Mandeville, NRC w/T5 Review
Cameco cheyenne

Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
--	---	---	---	--	--	---



INTRODUCTION

The Land Quality Division (LQD) received responses to the two remaining review comments for proposed Mine Unit 10 on December 28, 2012. Please see comments below.

COMMENTS

- 25. Response Acceptable. Thank you for the correction to the Township and Range designation. (PCR)
- 26. Response Acceptable. (PCR)

RECOMMENDATION

The technical review of Mine Unit 10 has resulted in necessity for five (5) permit conditions as follows:

- 1) Cameco Resources shall collect an additional water quality sample from Well 10MP-01 prior to startup of mining in the western region of the Mine Unit 10, and compare the results to the pre-workover baseline water quality. If significant changes are noted between the pre-workover samples and the additional sample, CR will acquire new baseline samples from the well for the restoration target value determination. These sample data must be provided to the Land Quality Division for review and concurrence.
- 2) Cameco Resources shall not conduct injection or recovery activities in the following areas of Mine Unit 10: Sections 18 and 19, Township 35 North, Range 74 West, and Sections 13 and 24, Township 35 North, Range 75 West, without further LQD (WQD/EPA) review and approval of groundwater reclassification and aquifer exemption review. The existing disturbance to facilitate the Mine Unit 10 mining necessitates Cameco's assiduous effort to obtain the reclassification and aquifer exemption approvals.
- 3) Cameco Resources shall provide a permit amendment (i.e., Sections 18 and 19, Township 35 North, Range 74 West) which allows a minimum 500 foot buffer between the monitor well ring and the permit boundary. The intent of the buffer is to ensure injection/production fluids are maintained within the permit boundary. The permit amendment shall be approved prior to injection or recovery activities. The existing disturbance to facilitate the Mine Unit 10 mining necessitates Cameco Resources' assiduous effort to obtain the permit amendment.
- 4) Cameco Resources shall provide protective armor around the following wells: 10I-248, 10P-126 and 10P-156, prior to using the wells for injection or recovery activities. The required photo documentation verifying construction of the armor for these wells shall be reviewed by LQD for concurrence before use of the wells.

- 5) Cameco Resources shall provide a revised surety estimate which demonstrates additional header houses are included in the surety. The LQD will review the surety update for concurrence prior to startup of more than four header houses in Mine Unit 10.

The conditions will be added to the Form 11.