



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

OK

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November 6, 2002

Wendell Owen, Mine Manager  
Co-Op Mining Co.  
P.O. Box 1245  
Huntington, Utah 84528

Re: Conditional Approval of Water Monitoring Update, Co-Op Mining Co., Bear Canyon Mine, C/015/025-02G-1, Outgoing File.

Dear Mr. Owen:

The above-referenced amendment is conditionally approved upon receipt of three clean copies prepared for incorporation. Please submit these copies by December 2, 2002. Once we receive these copies, final approval will be granted, at which time you may proceed with your plans.

A stamped incorporated copy of the approved plans will also be returned to you at that time, for insertion into your copy of the Mining and Reclamation Plan. A copy of our Technical Analysis is enclosed.

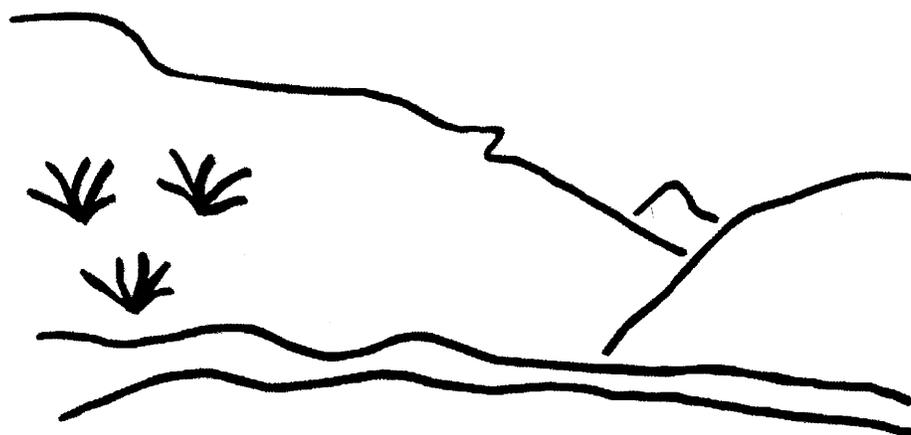
If you have any questions, please call me at (801) 538-5325 or Mike Suflita at (801) 538-5259.

Sincerely,

Daron Haddock  
Permit Supervisor

an  
Enclosure  
cc: Price Field Office  
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# State of Utah



## Utah Oil Gas and Mining

### Coal Regulatory Program

Bear Canyon Mine  
Water Monitoring Update  
C/015/025-AM02G-1  
Technical Analysis  
November 6, 2002

TECHNICAL ANALYSIS

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## TECHNICAL ANALYSIS

The Division ensures compliance with the Surface Mining Control and Reclamation Act of 1977 (SMCRA). When mines submit a Permit Application Package or an amendment to their Mining and Reclamation Plan, the Division reviews the proposal for conformance to the R645-Coal Mining Rules. This Technical Analysis is such a review. Regardless of these analyses, the permittee must comply with the minimum regulatory requirements as established by SMCRA.

Readers of this document must be aware that the regulatory requirements are included by reference. A complete and current copy of these regulations and a copy of the Technical Analysis and Findings Review Guide can be found at <http://ogm.utah.gov/coal>

This Technical Analysis (TA) is written as part of the permit review process. It documents the Findings that the Division has made to date regarding the application for a permit and is the basis for permitting decisions with regard to the application. The TA is broken down into logical section headings which comprise the necessary components of an application. Each section is analyzed and specific findings are then provided which indicate whether or not the application is in compliance with the requirements.

Often the first technical review of an application finds that the application contains some deficiencies. The deficiencies are discussed in the body of the TA and are identified by a regulatory reference which describes the minimum requirements. In this Technical Analysis we have summarized the deficiencies at the beginning of the document to aid in responding to them. Once all of the deficiencies have been adequately addressed, the TA will be considered final for the permitting action.

It may be that not every topic or regulatory requirement is discussed in this version of the TA. Generally only those sections are analyzed that pertain to a particular permitting action. TA's may have been completed previously and the revised information has not altered the original findings. Those sections that are not discussed in this document are generally considered to be in compliance.

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November 6, 2002

**TECHNICAL ANALYSIS**

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**INTRODUCTION**

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On May 30, 2002 the Division received a proposed amendment to change the water-monitoring plan due to progression of the mining. On July 29, 2002 the Division sent the Operator a Technical Analysis with deficiencies. On August 29, 2002 the Division received a revised amendment. This document is an analysis of the latest submittal. There are no deficiencies.

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## INTRODUCTION

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OPERATION PLAN

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## OPERATION PLAN

### HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

#### Analysis:

##### Ground-water monitoring

The proposed amendment has three changes to the groundwater-monitoring plan. In 1999, SBC-9 was abandoned due to retreat mining and was replaced by SBC-13. SBC-13 is now being removed from the mine plan due to the fact that retreat mining has resulted in the area becoming inaccessible. The second change is the addition of site SBC-9A. This site is now used since a borehole was drilled up to the old SBC-9 site.

The third, and last, change is the addition of SBC-11. This site was added since the mine encountered water seeping from the Bear Canyon Fault. Monitoring has already begun at the new sites.

When providing clean copies of this amendment, the Operator is asked to change the color of the symbols and text of the water monitoring points on Plate 7-10A, Mine Water Survey and Plate 7-10B, Mine Water Survey. The light gray color presently used results in difficulty in finding the monitoring sites. A darker color would work much better.

#### Findings:

Information provided in the proposed amendment is considered adequate to meet the requirements of this section