

## 2002 Annual Report Review

**Permittee:** CO-OP Mining Company  
**Mine Name:** Bear Canyon Mines 1,2,3 and 4  
**Permit Number:** C/015/025  
**Date Report Received:** April 17, 2003 in the Price Field Office

Assigned Reviewers:	Date Completed ▼
Peter Hess, Engineer / Inspector	5/12/2003
Jim Smith, Hydrologist	May 21, 2003
Joe Helfrich, Biology	June 13, 2003

**Instructions:** The assigned staff will review their respective portions of the Annual report and provide a written determination (findings) on how the mine has or has not met the permit requirements for reporting. If the report is deficient or remedial action is required to obtain compliance, this should be noted and the inspector notified. Once all reviewers have completed the report, they should initial it and a copy will be filed in the Mine Internal File.

### Assignments:

**Inspectors:** Review each cover sheet, AVS Legal/Financial, Mine Sequence Maps.  
**Hydrologists:** Review Water Monitoring Data, Precipitation and Climatological Data, Non-Coal Waste  
**Biologists:** Review Vegetation/Revegetation Success Monitoring, Raptor Survey  
**Engineers:** Review Subsidence Monitoring Data, Annual Impoundment Certification, Annual Overburden, Spoils, Refuse, Floor, etc.

SECTIONS TO REVIEW	SUBMITTED		FINDINGS
	YES	NO	
Cover Sheet	X	<input type="checkbox"/>	The submitted information appears to be complete and adequate.
AVS; Legal/ Financial Update	X	<input type="checkbox"/>	Ownership and control information received in the 2002 annual report correlates with AVS information verified on April 17, 2003 by the Price Feld Office.
Mine Sequence Map	X	<input type="checkbox"/>	Plate 3-4C depicts the #2 and #4 Mines located in the Tank seam. Mining in the #2 Mine has been completed and the portal area has been reclaimed. The permittee is developing the access to the #4 Mine; no development mining is anticipated in that seam until June of 2003. Plate 3-4A depicts the #1 Mine (Blind Canyon seam) and the projection for the #3 Mine in the Wild Horse Ridge addition. Plate 3-4B depicts the #1 Mine in the Hiawatha seam. All maps are P.E. certified by Mr. Charles Reynolds, Utah registered professional engineer.
Water Monitoring Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water monitoring data are submitted quarterly.
Precipitation & Climatological Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Non-Coal Waste report		<input checked="" type="checkbox"/>	All noncoal waste is transported off site to the Emery County landfill.

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	YES	NO	
Subsidence Monitoring Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The permittee has monitored twenty-one points for deflection over the #1 and #2 Mines for several years. The largest amount of sag or heave reported during 2002 was -0.97 feet at SMS-2 and +0.59 feet of heave reported at SMS-15. Nineteen new monitoring points have been installed adjacent to the #1 and #2 Mines to monitor settling (points 500-519) The permittee has also installed points 520 through 545 to monitor subsidence of the Wild Horse Ridge area. To date, only development mining has occurred in the #3 Mine. The #4 Mine is under access construction as of 5/12/2003. Plate 3-3 has been included, and shows the location of each of the monitoring points which have been or will be reporting information. The map and deflection information are P.E. certified by Mr. Charles Reynolds.
Annual Impoundment Certification	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The annual impoundment certification for pond "A" was performed on March 29, 2002. Ponds "B" and "C" received the annual inspection / certification on December 23, 2002. The cleaning of pond "A" was completed 3 weeks prior to the March 29 inspection. According to the inspection report, pond "A" has four feet of elevation difference remaining to reach the 60% sediment cleanout elevation. Pond "B" has no sediment storage capacity remaining, based on the annual report. That pond is in the midst of being cleaned. Pond "C" has approximately 1.3 feet of storage capacity remaining before reaching the 60% cleanout elevation. There were no signs of instability or other types of hazardous conditions reported. All reports are P.E. certified by Mr. Charles Reynolds.
Annual Overburden, Spoil, Refuse, Floor, etc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No information has been submitted.
Vegetation Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required. However a reclamation seed mix is provided with this report
Revegetation Success Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	
Raptor Survey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The 2002 raptor survey is included with the subsidence map plate 3-3. There are no active nests within 1/2 mile of the permit area.
Other Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	An analysis of the pond cleanout material from sediment pond "A" has been included. The Division's soil scientist was notified concerning the analysis.

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