

## PERMIT CHANGE TRACKING FORM

<b>DATE RECEIVED</b>	2/6/95	<b>PERMIT NUMBER</b>	PC71015/025
<b>Title of Proposal:</b>	DH-4 (Installed in 1/94)	<b>PERMIT CHANGE #</b>	952
<b>Description:</b>	Update to Appendix 7-J (PHC) and Appendix 7-N (HSE)	<b>PERMITTEE</b>	Co-Op
		<b>MINE NAME</b>	Blair Canyon Mine

<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION  <input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee.  <input type="checkbox"/> Request additional review copies prior to Division/Other Agency review.  <input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.)  <input type="checkbox"/> Notice of request to modify proposed permit change prior to approval.	<b>DATE DUE</b>	<b>DATE DONE</b>	<b>RESULT</b>	
			<input type="checkbox"/> ACCEPTED	<input type="checkbox"/> REJECTED
			<b>Permit Change Classification</b>	
			<input type="checkbox"/> Significant Permit Revision	
			<input type="checkbox"/> Permit Amendment	
			<input type="checkbox"/> Incidental Boundary Change	

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> Administrative _____						
<input type="checkbox"/> Biology _____						
<input type="checkbox"/> Engineering _____						
<input type="checkbox"/> Geology _____						
<input type="checkbox"/> Soils _____						
<input checked="" type="checkbox"/> Hydrology _____						
<input type="checkbox"/> Bonding _____						
<input type="checkbox"/> AVS Check _____						

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> OSMRE						
<input type="checkbox"/> US Forest Service						
<input type="checkbox"/> Bureau of Land Management						
<input type="checkbox"/> US Fish and Wildlife Service						
<input type="checkbox"/> US National Parks Service						
<input type="checkbox"/> UT Environmental Quality						
<input type="checkbox"/> UT Water Resources						
<input type="checkbox"/> UT Water Rights						
<input type="checkbox"/> UT Wildlife Resources						
<input type="checkbox"/> UT State History						
<input type="checkbox"/> Other						

<input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)  <input type="checkbox"/> Copies of permit change marked and ready for MRP.  <input type="checkbox"/> Special Conditions/Stipulations written for approval.  <input type="checkbox"/> TA and CHIA modified as required.  <input type="checkbox"/> Permit Change Approval Form ready for approval.	<input type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied.  <input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.  <input type="checkbox"/> Copy of Approved Permit Change to File.  <input type="checkbox"/> Copy of Approved Permit Change to Permittee.  <input type="checkbox"/> Copies to Other Agencies and Price Field Office.
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State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

March 9, 1995

Mr. Wendell Owen  
Co-Op Mining Company  
P.O. Box 1245  
Huntington, UT 84528

Re: Update to Appendix 7-J and Appendix 7-N (PHC), Bear Canyon Mine, Co-Op Mining Company, ACT/015/025-95C, Folder #3, Emery County, Utah

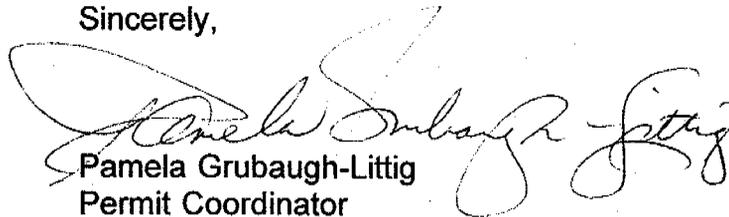
Dear Mr. Owen:

The above-noted amendment is conditionally approved upon submittal of three copies of the finalized text (Appendices 7-J and 7-N). The permit amendment approval and Technical Analysis are included for your records.

Additionally, as had been mutually agreed upon, it is understood that complete copies of the volumes of the mining and reclamation plans for the Division of Wildlife Resources, Department of Environmental Quality, and Division of Water Rights will be submitted in their entirety by May 1, 1995.

If you have any questions, please call me. Thank you for your cooperation.

Sincerely,



Pamela Grubaugh-Littig  
Permit Coordinator

Enclosure

cc: Daron Haddock  
Pete Hess



## PERMIT AMENDMENT APPROVAL

Title: <b>DH-4</b>	PERMIT NUMBER: <b>ACT/015/025</b>
Description: <b>Update to Appendix 7-J &amp; 7N (PHC)</b>	PERMIT CHANGE #: <b>95C</b>
	MINE: <b>Bear Canyon</b>
	PERMITTEE: <b>Co-Op</b>

WRITTEN FINDINGS FOR PERMIT APPLICATION APPROVAL	YES, NO or N/A
1. The application is complete and accurate and the applicant has complied with all the requirements of the State Program.	Yes
2. The proposed permit area is not within an area under study or administrative proceedings under a petition, filed pursuant to R645-103-400 or 30 CFR 769, to have an area designated as unsuitable for coal mining and reclamation operations, unless:	Yes
A. The applicant has demonstrated that before January 4, 1977, substantial legal and financial commitments were made in relation to the operation covered by the permit application, or	Yes
B. The applicant has demonstrated that the proposed permit area is not within an area designated as unsuitable for mining pursuant to R645-103-300 and R645-103-400 or 30 CFR 769 or subject to the prohibitions or limitations of R645-103-230.	Yes
3. For coal mining and reclamation operations where the private mineral estate to be mined has been severed from the private surface estate, the applicant has submitted to the Division the documentation required under R645-301-114.200.	Yes
4. The Division has made an assessment of the probable cumulative impacts of all anticipated coal mining and reclamation operations on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.	Yes
5. The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et.seq.).	Yes
6. The Division has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Division has determined that no additional protection measures are necessary.	Yes
7. The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	Yes
8. The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	Yes
9. The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	Yes
10. The Applicant has satisfied the applicable requirements of R645-302.	NA
11. The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.	NA

SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL	YES	NO
1. Are there any variances associated with this permit amendment approval? If yes, attach.		X
2. Are there any special conditions associated with this permit amendment approval? If yes, attach.		X
3. Are there any stipulations associated with this permit amendment approval? If yes, attach.		X

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed *Dawn R. Hedrick*  
 Division of Oil, Gas and Mining

3/9/25  
 EFFECTIVE DATE

# TECHNICAL ANALYSIS

## DH-4 AMENDMENT AND REVISED PHC INFORMATION

CO-OP MINING COMPANY  
BEAR CANYON MINE  
ACT/015/025-95C

March 9, 1995

### Analysis

The document contains a significant number of tables and figures which show quality and quantity of surface and groundwater. The rules state the permit application will have assessed **the impacts of the operation upon the surface and ground water under seasonal flow conditions for the proposed permit and adjacent areas.** (R645-301-748.100)

This permit could improve its assessment of water quality and quantity data in its presentation of that data which is known to exist. For example, many of the Tables contained in the PHC are titled **Initial** Spring and Mine Flow Rates or **1991 Average** Spring and Mine Flow Rates. The data is available to update and portray a representative and seasonal flow regime and the influence of season on water quality. Whether the permittee chooses to add an addendum to the PHC or change the tables, it doesn't matter. It is felt that an attempt should be made to be more specific regarding the analysis of data on a seasonal basis and discuss ranges of results from specific parameters and not averages. There are some tables in the PHC which show max, min, and mean data but the tables lack the inclusion of sampling dates to tie them to season.

This recommendation is only meant to enhance the existing document and support the Division's finding of no significant impact. There are many ways to present data and the current PHC has chosen one way but it has been and continues not to tell the whole story. As time goes on, it is an appropriate goal to refine and update this document to enhance its usefulness to the Permittee, public and the Division. The situation of Big Bear Springs and Birch Springs has prompted a lot of data collection and it would be appropriate to organize and use that data to update the PHC as it becomes available.

### Ground Water

Drill Hole DH-4 was added as a result of the loss of drill hole DH-3 abandoned on November, 1993, because pillars were pulled in that section of the mine. Table 2-13 is a summary of the minimum, maximum and mean analytical results for groundwater from all four in-mine wells. This table fails to include dates of the data presented. This is another example of why this information should be refined and dates used to represent the data in a seasonal manner be considered.

The Stratigraphic and Hydrologic Cross-section through in- mine Drillholes DH-1A, DH-2, DH-3 and DH-4 is found in Figure 2-2. The explanation of data regarding water levels in the Blackhawk Formation related to the Spring Canyon Tongue of the Star Point Sandstone is found on page 2-24 of the Revised Hydrologic Evaluation. The new drill hole

DH-4 indicated a static water level of 62 feet above the top of the unit. This indicates a confined condition and explains the leakage in the floor of the mine in the area of the Second East entries. The conclusions regarding this leakage are supported by the water levels found in the three in-mine monitoring wells.

### Finding

The drilling of DH-4 does not change the conclusions of the past CHIA but does indicate that any future mining in the federal leases to the North should be examined to determine the impacts of future mining and interception of the water table.

### Recommendation

The document needs some refinement in terms of adding and/or enhancing existing Tables to show seasonal trends and variation in water quality data collected for surface and ground water. When the maximum and minimum values are listed, as well as, the mean, it would be appropriate for the Standard Deviation to be calculated as well. Average values do not tell the story and merely give a very general description. They should not be used in future tables. The data ranges must include an explanation of where the data is kept so it can be examined for sample dates and values used to calculate results.

# CO-OP MINING COMPANY

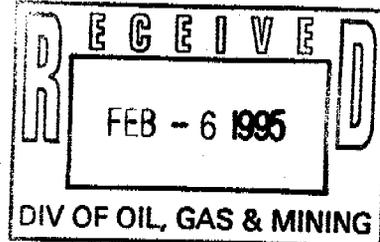
P.O. Box 1245  
Huntington, Utah 84528



(801) 381-5238  
Coal Sales (801) 381-5777

February 3, 1995

Pamela Grubaugh-Littig  
Permit Coordinator  
Utah Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203



Ms. Grubaugh-Littig,

Re: DH-4 Update to Appendix 7-J (PHC) and Appendix 7-N (HGE), Bear Canyon Mine, ACT/015/025, Emery County, Utah

*#2 Copy Form = Owen*  
Enclosed are three copies of and amendment to the Bear Canyon M&RP to incorporate hydrologic information obtained from monitor well DH-4, which was installed in January, 1994.

Upon approval, finalized copies will be sent to the Divison. If you have any questions, please call Charles Reynolds at (801) 687-2450.

Thank You,

*Wendell Owen*

Wendell Owen,  
Resident Agent

Enclosure(s)  
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# APPLICATION FOR PERMIT CHANGE

Title of Change:

*DH-4 Update to Appendix 7.5 and 7N*

Permit Number: *ACT1015 1025*

Mine: *Bear Canyon*

Permittee: *Co-op Mining Co*

Description, include reason for change and timing required to implement:

*PAC Update is being made to prepare for Permit Renewal.*

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 1. Change in the size of the Permit Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.               |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 2. Change in the size of the Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.            |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 4. Will permit change include operations in hydrologic basins other than currently approved?   |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?                                  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 6. Does permit change require or include public notice publication?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 7. Permit change as a result of a Violation? Violation # _____   |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 8. Permit change as a result of a Division Order? D.O.# _____  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 9. Permit change as a result of other laws or regulations? Explain: _____  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 10. Does permit change require or include ownership, control, right-of-entry, or compliance information?                                 |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 11. Does the permit change affect the surface landowner or change the post mining land use?  |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 12. Does permit change require or include collection and reporting of any baseline information? <i>Hydrology</i>                         |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?                                |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 14. Does permit change require or include soil removal, storage or placement?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 15. Does permit change require or include vegetation monitoring, removal or revegetation activities?                                     |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 16. Does permit change require or include construction, modification, or removal of surface facilities?                                  |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            | 17. Does permit change require or include water monitoring, sediment or drainage control measures?                                       |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 18. Does permit change require or include certified designs, maps, or calculations?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 19. Does permit change require or include underground design or mine sequence and timing?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 20. Does permit change require or include subsidence control or monitoring?  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?                                  |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?                           |
| <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No | 23. Is this permit change coal exploration activity <input type="checkbox"/> inside <input type="checkbox"/> outside of the permit area? |

Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Signed - Name - Position - Date

Subscribed and sworn to before me this *3rd* day of *February*, 19 *95*.

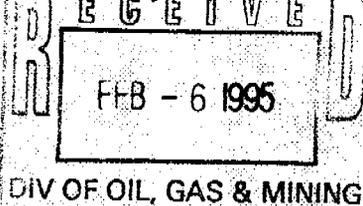
*Leanne Stone*  
Notary Public



Notary Public  
LEANNE STONE  
P.O. Box 300  
Huntington, Utah 84520  
My Commission Expires  
June 18, 1997  
State of Utah

My Commission Expires: \_\_\_\_\_, 19\_\_\_\_  
Attest: STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

Received by Oil, Gas & Mining



ASSIGNED PERMIT CHANGE NUMBER

