

PERMIT CHANGE TRACKING FORM

DATE RECEIVED	7/9/93	PERMIT NUMBER	ACT/015/025
Title of Proposal: Coal Storage Pad Interim Reclamation		PERMIT CHANGE #	93D
Description:	PERMITTEE		CO-OP MINING CO.
	MINE NAME		BEAR CANYON

<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.	DATE DUE	DATE DONE	RESULT		
				<input type="checkbox"/> ACCEPTED	<input type="checkbox"/> REJECTED
				Permit Change Classification	
				<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 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"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied.
<input type="checkbox"/> Copies of permit change marked and ready for MRP.	<input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.
<input type="checkbox"/> Special Conditions/Stipulations written for approval.	<input type="checkbox"/> Copy of Approved Permit Change to File.
<input type="checkbox"/> TA and CHIA modified as required.	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.
<input type="checkbox"/> Permit Change Approval Form ready for approval.	<input type="checkbox"/> Copies to Other Agencies and Price Field Office.

PERMIT AMENDMENT APPROVAL

Title: COAL STORAGE PAD INTERMIN RECLAMATION	PERMIT NUMBER: ACT/015/025
Description:	PERMIT CHANGE #: 93D
	MINE: BEAR CANYON
	PERMITTEE: CO-OP MINING

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.	
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: 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 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.	
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.	
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.	
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.).	
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.	
7. The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	
8. The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	
9. The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	
10. The Applicant has satisfied the applicable requirements of R645-302.	
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.	

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.		
2. Are there any special conditions associated with this permit amendment approval? If yes, attach.		
3. Are there any stipulations associated with this permit amendment approval? If yes, attach.		

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 _____
 Director, Division of Oil, Gas and Mining

_____ EFFECTIVE DATE

Coal Storage Pad Out Slope Cleanup

Mine: Bear Canyon
 Permittee: Co-Op Mining Co

Description, include reason for change and timing required to implement:
 Change is required to implement requirements of Division Order 90A, Item #8. Work to begin in August

- Yes No 1. Change in the size of the Permit Area? _____ acres increase decrease.
- Yes No 2. Change in the size of the Disturbed Area? _____ acres increase decrease.
- Yes No 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
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- Yes No 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
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- Yes No 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?
- Yes No 23. Is this permit change coal exploration activity inside 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.

Charles Reynolds - Captain Coordinator
 Signed - Name - Position - Date
 7-9-93

Subscribed and sworn to before me this 9th day of July, 1993.
L.A. Miller
 Notary Public



My Commission Expires: _____, 1994
 Attest: STATE OF _____
 COUNTY OF _____

Received by Oil, Gas & Mining

ASSIGNED PERMIT CHANGE NUMBER



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)

September 14, 1993

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

Re: Approval of Amendment to Allow for Contemporaneous Reclamation and Repair of Coal Storage Pad, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-93D, Folder #3, Emery County, Utah

Dear Mr. Owen:

The above-noted amendment is approved. Please submit three finalized copies of the text and plates by September 30, 1993.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Pamela Grubaugh-Littig'.

Pamela Grubaugh-Littig
Permit Supervisor

pgl



CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



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

July 8, 1993

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

Ms. Grubaugh-Littig,

**Re: Coal Storage Pad Interim Reclamation, Co-Op Mining Company,
Bear Canyon Mine, ACT/015/025-93D, Emery County, Utah**

Enclosed are three copies of a proposal to modify the coal storage pad interim reclamation, which was approved by Henry Sauer with the DO Item #8 approval. In order to accomplish the reclamation, additional material will be required on the outslopes. The proposal consists of using additional material beneath the coal waste storage area to repair erosion channels on the coal storage pad outslope. Maps have been recontoured to show approximate proposed outslope configuration.

Pages and Plates have been marked DRAFT to distinguish them from previously approved material. Upon approval, finalized copies will be submitted to the Division. If you have any further questions, please call Charles Reynolds at (801) 381-2450.

Thank You,

A handwritten signature in cursive script that reads "Wendell Owen".

Wendell Owen,
Resident Agent

WJO/cr
Enclosure(s)

RECEIVED

JUL 09 1993

DIVISION OF
OIL GAS & MINING

When the large flat or pad areas were constructed, the upper most material (topsoil) was pushed to the bottom of the pile and covered with material taken from the created highwalls. Although this material is becoming compacted during operation the non-toxic and non-acid forming nature of the coal and other possible contaminants poses little potential impact to the suitability of this soil.

All areas used for plant growth material sites will be revegetated and the soil stabilized during the first fall following removal. Reclamation will follow the procedures defined in this plan.

8.9.1 On-Site Material

Due to the large amount of pre-disturbed area and limited nature of the active disturbance within the reclamation areas, in-place materials will be used for final reclamation plant growth medium. Use of such materials has proven successful in other mines within the surrounding mining community, such as Trail Canyon. Use of this material will eliminate the need to disturb additional areas for use as plant growth material borrows.

In the summer of 1991, Co-Op conducted an extensive testing program of the on-site materials. Test results showed that in-place spoils are suitable for the plant growth material to be used for reclamation. Test pits were located with the help of Henry Sauer of the Division, to be representative of each reclamation

area. Patrick Collins, Ph.D., Biologist/Reclamation Specialist of Mt Nebo Scientific was contracted to analyze the test data. A copy of the report by Mt. Nebo Scientific can be found in Appendix 8-E. The soils laboratory results from Inter-Mountain Laboratories, are included in the same appendix.

Samples were taken at intervals that were representative of the layering in the soil. Samples were tested according to the parameters listed in Table 8.9-1. Testing from various undisturbed sites were taken for use as a comparison with the on-site material. Testing will be conducted again on the areas area to determine impacts continued mining has had on suitability in the final five year permitted period before reclamation. See Section 8.11.

The on-site material also includes the downcast material from the cut roads. Procedures have been followed that verify the suitability of this material and are discussed further in Appendix 8-A and 8-D. With proper treatment to reduce compaction and improve proper nutrients and amendments the actual road material would prove suitable, similar again to procedures in use and used at other reclamation sites which had disturbances of a prelaw (pre-1977) nature.

Although material on the outslope of the coal storage pad is adequate as substitute topsoil, much of the slopes have been covered with coal. To improve the quality of this material, interim reclamation steps will be taken in 1993. The outslope will be cleaned of coal. A retaining wall will be placed ~~where needed to prevent~~ ~~in areas where the coal continually spillages~~ over the edge of the pad. Berms and retaining walls will be used to prevent future spills onto the outslopes. All existing eroded areas will be repaired ~~using material beneath the coal waste storage area (sample site# CSP-5) and storage pad outslopes,~~ and the outslopes will be revegetated according to the approved interim revegation plan in Appendix 3-G. Where necessary, the slopes will be stabilized with erosion control matting to prevent erosion of the slopes until a good vegetative cover is established. Any coal which may spill onto the outslope will be removed.

CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



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

July 8, 1993

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

Copy PAM

Ms. Grubaugh-Littig,

Re: Coal Storage Pad Interim Reclamation, Co-Op Mining Company,
Bear Canyon Mine, ACT/015/025-93D, Emery County, Utah

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Pages and Plates have been marked DRAFT to distinguish them from previously approved material. Upon approval, finalized copies will be submitted to the Division. If you have any further questions, please call Charles Reynolds at (801) 381-2450.

Thank You,

Wendell Owen

Wendell Owen,
Resident Agent

*Henry -
Did you
get a chance to
look at this before
you go... Pass to Jers*

WJO/cr
Enclosure(s)

RECEIVED

JUL 09 1993

DIVISION OF
OIL GAS & MINING

PERMIT TRACKING FORM

Type of Proposal:

Enforcement Action Involved:

MRP AMENDMENT _____
 MRP REVISION _____
 EXPLORATION _____
 I. B. C. _____

TDN/L #X _____, # _____ of _____
 NOV #N _____, # _____ of _____
 CO #C _____, # _____ of _____
 (Incidental Boundary Change)

Title of Proposal:

Coal Storage and Water Pollution

Company Name:

File #: (INA / PRO / ACT / CEP)

1451205-93 # D New Acres: _____

<u>Discipline</u>	<u>Priority</u>	<u>Reviewers</u>	<u>Due</u>	<u>Completed</u>	<u>Tech Memo Drafted</u>	
					Yes	No
HYDROLOGY	_____	_____	_____	_____	()	()
BIOLOGY	_____	<u>Shannon</u>	<u>4/19</u>	_____	()	()
ENGINEER	_____	<u>Ken</u>	<u>4/27/25</u>	_____	()	()
SOILS	_____	<u>Shannon</u>	<u>5/22</u>	_____	()	()
GEOLOGY	_____	_____	_____	_____	()	()

Dates:

- | | | | |
|--|--|--|--|
| (1) Initial Plan Received
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | <u>2/9/93</u>

_____ | (4) Operator Resubmission
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ |
| (2) Operator Response Rc'd
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ | (5) Operator Response Rcd
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ |
| (3) Operator Response Rc'd
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ | (6) Conditional Approval
Stipulations Due
Stipulations Received
DOGM Response Sent
Final Approval
Filed in MRP
Author
Transmitted | _____

_____ |

Other Agency Involvement:

<u>Agency</u>	<u>Transmittal Date</u>	<u>Sign-off</u>	<u>Comments:</u>
() OSMRE	_____	_____	_____
() USFS	_____	_____	_____
() BLM	_____	_____	_____
() USFWS	_____	_____	_____
() NPS	_____	_____	_____
() HEALTH	_____	_____	_____
() UDWR	_____	_____	_____
() H ² O RGTS	_____	_____	_____
() HISTORY	_____	_____	_____

Title of Change:

Coal Storage Pad Out Slope Cleanup

Permit Number: ACT 015 1025

Mine: Bear Canyon

Permittee: Co-op Mining Co

Description, include reason for change and timing required to implement:
Change is required to implement requirements of Division Order 90A, Item #8. Work to begin in August.

- Yes No 1. Change in the size of the Permit Area? _____ acres increase decrease.
- Yes No 2. Change in the size of the Disturbed Area? _____ acres increase decrease.
- Yes No 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
- Yes No 4. Will permit change include operations in hydrologic basins other than currently approved?
- Yes No 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does permit change require or include public notice publication?
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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.

Charles Reynolds - Captain, Coordinator
Signed - Name - Position - Date
7-9-93

Subscribed and sworn to before me this 9th day of July, 1993.
L.A. Miller
Notary Public

My Commission Expires: 2/6, 1994
Attest: STATE OF _____ COUNTY OF _____



L.A. MILLER
Notary Public
STATE OF UTAH
My Commission Expires
February 6, 1994
3142 S Main, Ste. UT 81

Received by Oil, Gas & Mining

ASSIGNED PERMIT CHANGE NUMBER

Coal Storage Pad Out Slope Cleanup

Mine: Bear Canyon

Permittee: Co-Op Mining Co

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Change is required to implement requirements of Division Order 90A, Item #8. Work to begin in August.

- | | | |
|---|--|--|
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Charles Reynolds - Captain, Coal
Signed - Name - Position - Date
7-9-93

Subscribed and sworn to before me this 9th day of July, 19 93.

Notary Public

My Commission Expires: _____
Attain: STATE OF _____
COUNTY OF _____



L.A. MILLER
Notary Public
STATE OF UTAH
My Commission Expires
February 6, 1994
3142 S. MAIN, SLC, UT 84143

Received by Oil, Gas & Mining

ASSIGNED PERMIT CHANGE NUMBER

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

Michael O. Leavitt
Governor

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Executive Director

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Division Director

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

September 14, 1993

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

Re: Approval of Amendment to Allow for Contemporaneous Reclamation and Repair of Coal Storage Pad, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-93D, Folder #3, Emery County, Utah

Dear Mr. Owen:

The above-noted amendment is approved. Please submit three finalized copies of the text and plates by September 30, 1993.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Pamela Grubaugh-Littig'.

Pamela Grubaugh-Littig
Permit Supervisor

pgl





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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
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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)

September 13, 1993

TO: Pamela Grubaugh-Littig, Permit Supervisor
FROM: Jess Kelley, Reclamation Engineer *JK*
RE: Amendment to Allow for Contemporaneous Reclamation and Repair of Coal Storage Pad, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-93D, Folder #2, Emery County, Utah

SYNOPSIS

On July 9, 1993, the permittee submitted this amendment for Division approval. The amendment proposes to repair erosion damage on the coal storage pad outslope and to build small concrete retaining walls, where needed, to prevent coal from spilling from the pad to the repaired areas. The material for repairing the erosion damage is to come from beneath the southwest corner of the coal storage pad in the mouth of the small canyon which comes from the Upper Storage Pad.

ANALYSIS

The amendment consists of two revised pages of text and three revised maps. Pages 8-28 and 8-29 have been revised to mention the repair of the coal storage pad and the construction of the concrete retaining walls. Plates 2-4C, 7-1C, and 8-5C have been revised to show the changes in topography which will result from the repair of the coal storage pad outslope and the removal of the necessary material from beneath the coal storage pad.

The repair of the coal storage pad outslope will require approximately 2500 cubic yards of material. Division Soil Scientist Henry Sauer has determined that the material to be used is suitable for this purpose.

The placement of material on the coal storage pad outslope constitutes contemporaneous reclamation. The quantity of material to be moved during final reclamation will not be changed. Thus, this amendment requires no revision of the reclamation bond.

RECOMMENDATIONS

It is recommended that this amendment be approved.

BCAM93D.MEM





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August 3, 1993

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

Dear Mr. Owen:

Re: Initial Review Response - Accepted, Co-Op Mining Company, Bear Canyon Mine, ACT/015/025-93D, Folder #2, Carbon County, Utah

The Division is in receipt of the proposed amendment, Coal Storage Pad Interim Reclamation, and has determined the application complete. This amendment has been assigned the permit change number ACT/015/025-93D.

We anticipate completion of this review by August 20, 1993, at which time you will be notified of the amendment status.

If you have any questions or concerns, please feel free to call.

Henry - 8/2
Susan - ?
Jess - 8/2
Hugh -

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

AT015025.93D



PERMIT TRACKING FORM

Type of Proposal:

Enforcement Action Involved:

MRP AMENDMENT _____
 MRP REVISION _____
 EXPLORATION _____
 I. B. C. _____

TDN/L #X _____, # _____ of _____
 NOV #N _____, # _____ of _____
 CO #C _____, # _____ of _____
 (Incidental Boundary Change)

Title of Proposal:

Local Agency Land Disturbance Reclamation

Company Name:

C. B. Co.

File #: (INA / PRO / ACT / CEP)

105 / 1028 - 93 D

New Acres:

<u>Discipline</u>	<u>Priority</u>	<u>Reviewers</u>	<u>Due</u>	<u>Completed</u>	<u>Tech Memo Drafted</u>	
					Yes	No
HYDROLOGY	_____	_____	_____	_____	()	()
BIOLOGY	_____	<i>W. W.</i>	<i>8/19</i>	<i>8/13</i>	()	()
ENGINEER	_____	<i>K. W.</i>	<i>8/27 7/29</i>	<i>8/18</i>	()	()
SOILS	_____	<i>J. W.</i>	<i>8/2</i>	<i>8/23</i>	()	()
GEOLOGY	_____	_____	_____	_____	()	()

OK.

Dates:

(1) Initial Plan Received	_____	(4) Operator Resubmission	_____
Tech Review Due	_____	Tech Review Due	_____
Tech Review Complete	_____	Tech Review Complete	_____
DOGM Response Sent	_____	DOGM Response Sent	_____
Operator Response Due	_____	Operator Response Due	_____
(2) Operator Response Rc'd	_____	(5) Operator Response Rcd	_____
Tech Review Due	_____	Tech Review Due	_____
Tech Review Complete	_____	Tech Review Complete	_____
DOGM Response Sent	_____	DOGM Response Sent	_____
Operator Response Due	_____	Operator Response Due	_____
(3) Operator Response Rc'd	_____	(6) Conditional Approval	_____
Tech Review Due	_____	Stipulations Due	_____
Tech Review Complete	_____	Stipulations Received	_____
DOGM Response Sent	_____	DOGM Response Sent	_____
Operator Response Due	_____	Final Approval	_____
		Filed in MRP	_____
		Author	_____
		Transmitted	_____

Other Agency Involvement:

<u>Agency</u>	<u>Transmittal Date</u>	<u>Sign-off</u>	<u>Comments:</u>
() OSMRE	_____	_____	_____
() USFS	_____	_____	_____
() BLM	_____	_____	_____
() USFWS	_____	_____	_____
() NPS	_____	_____	_____
() HEALTH	_____	_____	_____
() UDWR	_____	_____	_____
() H ² O RGTS	_____	_____	_____
() HISTORY	_____	_____	_____

CO-OP MINING COMPANY

P.O. Box 1245
Huntington, Utah 84528



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

July 8, 1993

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

Ms. Grubaugh-Littig,

**Re: Coal Storage Pad Interim Reclamation, Co-Op Mining Company,
Bear Canyon Mine, ACT/015/025-93D, Emery County, Utah**

Enclosed are three copies of a proposal to modify the coal storage pad interim reclamation, which was approved by Henry Sauer with the DO Item #8 approval. In order to accomplish the reclamation, additional material will be required on the outcrops. The proposal consists of using additional material beneath the coal waste storage area to repair erosion channels on the coal storage pad outcrop. Maps have been recontoured to show approximate proposed outcrop configuration.

Pages and Plates have been marked DRAFT to distinguish them from previously approved material. Upon approval, finalized copies will be submitted to the Division. If you have any further questions, please call Charles Reynolds at (801) 381-2450.

Thank You,



Wendell Owen,
Resident Agent

WJO/cr
Enclosure(s)

RECEIVED

JUL 09 1993

DIVISION OF
OIL GAS & MINING

PERMIT TRACKING FORM

Type of Proposal:

Enforcement Action Involved:

MRP AMENDMENT _____
 MRP REVISION _____
 EXPLORATION _____
 I. B. C. _____

TDN/L #X _____ # _____ of _____
 NOV #N _____ # _____ of _____
 CO #C _____ # _____ of _____
 (Incidental Boundary Change)

Title of Proposal:

Local Storage and Interim Reclamation

Company Name:

C-E-O

File #: (INA / PRO / ACT / CEP)

151028-93 D #

New Acres: _____

Discipline	Priority	Reviewers	Due	Completed	Tech Memo Drafted	
					Yes	No
HYDROLOGY	_____	_____	_____	_____	()	()
BIOLOGY	_____	<u>Susan</u>	<u>8/19</u>	_____	()	()
ENGINEER	_____	<u>KW</u>	<u>7/23</u>	_____	()	()
SOILS	_____	<u>Henry</u>	<u>8/2</u>	_____	()	()
GEOLOGY	_____	_____	_____	_____	()	()

Dates:

- | | | | |
|--|---|--|--|
| (1) Initial Plan Received
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | <u>9/9/93</u>

_____ | (4) Operator Resubmission
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ |
| (2) Operator Response Rc'd
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ | (5) Operator Response Rcd
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ |
| (3) Operator Response Rc'd
Tech Review Due
Tech Review Complete
DOGM Response Sent
Operator Response Due | _____

_____ | (6) Conditional Approval
Stipulations Due
Stipulations Received
DOGM Response Sent
Final Approval
Filed in MRP
Author
Transmitted | _____

_____ |

Other Agency Involvement:

Agency	Transmittal Date	Sign-off	Comments:
() OSMRE	_____	_____	_____
() USFS	_____	_____	_____
() BLM	_____	_____	_____
() USFWS	_____	_____	_____
() NPS	_____	_____	_____
() HEALTH	_____	_____	_____
() UDWR	_____	_____	_____
() H ² O RGTS	_____	_____	_____
() HISTORY	_____	_____	_____

When the large flat or pad areas were constructed, the upper most material (topsoil) was pushed to the bottom of the pile and covered with material taken from the created highwalls. Although this material is becoming compacted during operation the non-toxic and non-acid forming nature of the coal and other possible contaminants poses little potential impact to the suitability of this soil.

All areas used for plant growth material sites will be revegetated and the soil stabilized during the first fall following removal. Reclamation will follow the procedures defined in this plan.

8.9.1 On-Site Material

Due to the large amount of pre-disturbed area and limited nature of the active disturbance within the reclamation areas, in-place materials will be used for final reclamation plant growth medium. Use of such materials has proven successful in other mines within the surrounding mining community, such as Trail Canyon. Use of this material will eliminate the need to disturb additional areas for use as plant growth material borrows.

In the summer of 1991, Co-Op conducted an extensive testing program of the on-site materials. Test results showed that in-place spoils are suitable for the plant growth material to be used for reclamation. Test pits were located with the help of Henry Sauer of the Division, to be representative of each reclamation

area. Patrick Collins, Ph.D., Biologist/Reclamation Specialist of Mt Nebo Scientific was contracted to analyze the test data. A copy of the report by Mt. Nebo Scientific can be found in Appendix 8-E. The soils laboratory results from Inter-Mountain Laboratories, are included in the same appendix.

Samples were taken at intervals that were representative of the layering in the soil. Samples were tested according to the parameters listed in Table 8.9-1. Testing from various undisturbed sites were taken for use as a comparison with the on-site material. Testing will be conducted again on the areas area to determine impacts continued mining has had on suitability in the final five year permitted period before reclamation. See Section 8.11.

The on-site material also includes the downcast material from the cut roads. Procedures have been followed that verify the suitability of this material and are discussed further in Appendix 8-A and 8-D. With proper treatment to reduce compaction and improve proper nutrients and amendments the actual road material would prove suitable, similar again to procedures in use and used at other reclamation sites which had disturbances of a prelaw (pre-1977) nature.

Although material on the outslope of the coal storage pad is adequate as substitute topsoil, much of the slopes have been covered with coal. To improve the quality of this material, interim reclamation steps will be taken in 1993. The outslope will be cleaned of coal. A retaining wall will be placed ~~where needed to prevent in areas where the coal continually spillages~~ over the edge of the pad. Berms and retaining walls will be used to prevent future spills onto the outslopes. All existing eroded areas will be repaired ~~using material beneath the coal waste storage area (sample site# CSP-5) and storage pad outslopes~~, and the outslopes will be revegetated according to the approved interim revegetation plan in Appendix 3-G. Where necessary, the slopes will be stabilized with erosion control matting to prevent erosion of the slopes until a good vegetative cover is established. Any coal which may spill onto the outslope will be removed.