Form DOGM - E (Last Revised 6/93) File Folder # 3

PERMIT CHANGE TRACKING FORM

DATE RECEIVED	8/5/94	PERMIT NUMBER	ACT/~~007~~ 015/~~033~~ 025
Title of Proposal:	Lamphouse Removal	PERMIT CHANGE #	948
Description:	and Portal Pad Recontoning	PERMITTEE	Co-Op Mining Company
		MINE NAME	Bear Canyon Mine

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

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
☐ Administrative ____						
☐ Biology ____						
☐ Engineering ____						
☐ Geology ____						
☐ Soils ____						
☐ Hydrology ____						
☐ Bonding Jesse	8/31					
☐ AVS Check ____						

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
☐ OSMRE						
☐ US Forest Service						
☐ Bureau of Land Management						
☐ US Fish and Wildlife Service						
☐ US National Parks Service						
☐ UT Environmental Quality						
☐ UT Water Resources						
☐ UT Water Rights						
☐ UT Wildlife Resources						
☐ UT State History						
☐ Other						

☐ Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)		☐ Permit Change Approval Form signed and approved effective as of this date. ☐ Permit Change Denied.	
☐ Copies of permit change marked and ready for MRP.		☐ Notice of ☐ Approval ☐ Denial to Permittee.	
☐ Special Conditions/Stipulations written for approval.		☐ Copy of Approved Permit Change to File.	
☐ TA and CHIA modified as required.		☐ Copy of Approved Permit Change to Permittee.	
☐ Permit Change Approval Form ready for approval.		☐ Copies to Other Agencies and Price Field Office	

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

Michael O. Leavitt
Governor
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3 Triad Center, Suite 350
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801-538-5319 (TDD)

August 17, 1994

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

Re: Lamphouse Removal and Portal Pad Recontouring, Bear Canyon Mine, Co-Op Mining Company, ACT/015/025-94B, Folder #3, Emery County, Utah

Dear Mr. Owen:

The amendment to remove the lamphouse from the lamphouse pad and regrade the north end of the pad to create an area for the storage of equiment and supplies is approved. The reclamation cost is incidental (about $625), and therefore, the reclamation bond remains unchanged.

Please submit three finalized copies of the plates and text by September 16, 1994. If you have any questions, please call me.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

cc: Daron Haddock

3.6.8 Reclamation Bonding

RECEIVED
AUG - 5 1994
DIV. OF OIL, GAS & MINING

BOND

CO-OP MINING COMPANY

BEAR CANYON MINE

ACT/015/025, EMERY COUNTY, UTAH

3.6.8.1 Detailed Timetable for Completion of Major Reclamation Processes

The following schedule of reclamation is proposed to be initiated within 90 days (weather permitting) of final abandonment of the mining operation:

		Accumulated Time
a.	Seal Portals - 1.5 weeks	1.5 weeks
b.	Remove Structures - 8~~7.9~~ weeks	9.5~~4~~ weeks
c.	Soil Replacement and Ripping - 7 weeks	16.5~~4~~ weeks
d.	Channel Restoration - 2.2 weeks	18.7~~6~~ weeks
e.	Revegetation - 1 week	20.2~~1~~ weeks

The above reclamation tasks can, therefore, be completed within 20.3~~2~~ weeks following the start of reclamation activities.

Summary of Reclamation Cost Estimate

a.	Seal Portals and Backfill	$ 35,000.00
b.	Removal of Structures	$ ~~62,202.90~~61,633.85
c.	Soil Placement and Ripping	$ 76,398.32
d.	Channel Restoration	$ 51,045.00
e.	Revegetation	$ 44,119.78
f.	Monitor Well Plugging	$ 114.32
g.	Maintenance and Monitoring of Subsidence, Vegetation and Erosion (10 yr bond liability Period)	$ 39,143.20
h.	Hydrology Monitoring (10 yr bond liability period)	$ 29,630.00
i.	Supervision (20.2 weeks)	$ 14,285.44
j.	Mobilization and Demobilization	$ 2,500.00
		$~~354,438.96~~353,869.91
	10 pct contingency	$ ~~35,443.90~~35,386.99
	(1990 dollars)	$~~389,882.86~~389,256.90

Escalated Values	Escalation Factor
1991 - $~~397,057~~396,419	1.84% (actual)
1992 - $~~404,363~~403,713	1.84% (est)
1993 - $~~411,803~~411,142	1.84% (est)
1994 - $~~419,380~~418,707	1.84% (est)
1995 - $~~427,097~~426,411	1.84% (est)

Bond will be posted in accordance with R645-301-820.

Machine Shop

020-604-0500 (Steel Building, includes disposal)
Volume = (30 ft)(40 ft)(12 ft) = 14,400 cu ft
Cost = (0.923)(0.16/cu ft)(14,400 cu ft) = $2,126.59
Time = 14,400 cu ft/(14,800 cu ft/day) = 0.97 days

Cost Subtotal $2,126.59
Time Subtotal 0.97 days

~~Portal Trailer~~

~~Trailer House 36 ft x 10 ft x 8 ft high~~
~~Load with crane and haul off. Assume:~~
~~Labor = (1 man)(2 hrs)($15.83/hr) $ 31.66~~
~~Crane + operator = (2 hrs)($78.25/hr) $ 156.50~~
~~Lowboy + operator = (4 hrs)($59.89/hr) $ 239.56~~
~~$ 427.72~~

~~Time = 4 hrs (Some time concurrent)~~

~~Cost Subtotal $427.72~~
~~Time Subtotal 0.50 days~~

~~Lamp House~~ Mobile Electric Trailer

Semi-Trailer 40 ft x 8 ft x 8 ft
Hook up and haul off. Assume:
Truck (Tractor) = operator = (3 hrs)($47.11/hr) $ 141.33

Cost Subtotal $141.33
Time Subtotal 0.38 days

~~Mobile Electric Trailer~~

~~Similar to Lamphouse~~

~~Cost Subtotal $141.33~~
~~Time Subtotal 0.38 days~~

Coal Processing/Crusher Facility (Tipple)

27 ft x 52 ft Approx.
(25% is 25 ft high, 50% is 17 ft high, and 25% is 8 ft high.)

020-604-0500 (Steel Building, includes disposal)
Volume=(27ft)(52ft)[(.25)(25ft)+(.50)(17ft)+(.25)(8ft)]=23,517 ft^3
Cost = (0.923)(0.16/cu ft)(23,517 cu ft) = $3,472.99
Time = 23,517 cu ft/(14,800 cu ft/day) = 1.59 days

020-604-0700 (Control House, Wood, includes disposal)
Volume = (12 ft)(20 ft)(10ft) = 2,400 cu ft
Cost = (0.923)(0.16/cu ft)(2,400 cu ft) = $354.43
Time = 2,400 cu ft/(14,800 cu ft/day) = 0.16 days

Cost Subtotal $3,827.42
Time Subtotal 1.75 days

Cost Subtotal $6,889.60
Time Subtotal 7.03 days

Building Enclosure for Tank Seam Belt Portal

020-604-0500 (Steel Building, includes disposal)
Volume = (12 ft)(12 ft)(12 ft) = 1,728 cu ft
Cost = (0.923)(0.16/cu ft)(1,728 cu ft) = $255.19
Time = 1,728 cu ft/(14,800 cu ft/day) = 0.12 days

Cost Subtotal $255.19
Time Subtotal 0.12 days

Remove Structures Cost Total = ~~$62,202.90~~61,633.85
Remove Structures Time Total = ~~40.06~~39.18 days

EXISTING STRUCTURES

Table 3A-1 lists each structure and construction dates. Reclamation is expected in 2012.

Table 3A-1 Existing Structures

Existing Structure	Construction Dates Starting	Completion	Photo #
Fuel Tanks	10/83	6/84	2
Truck Loading Facility	9/82	4/83	3
Shop - Bathhouse - Warehouse	10/83	9/84	4
Added Machine Shop	11/89	12/89	5
Oil Slack Loading Facility	4/83	7/83	3
Storage & Stacking Facility	6/80	4/84	3
Coal Processing Facility	4/80	12/85	6
Non-Coal Storage Yard	3/80	9/84	7
Transformer Sub-Station	4/80	6/80	8
Conveyor Structures	3/80	6/80	3
Cross Conveyor	7/89	9/89	9
Sales Receiving-Scale Office	6/84	10/87 (Phase I) 10/92 (Phase II)	Fig 3A-1 1
~~Lamp House~~	~~10/83~~	~~4/84~~	~~10~~
Coal Storage Bins	4/85	10/85	11
Powder Magazine	9/82	containerized	7
Lump Coal Facility	10/83	12/85	6
Electric Service Depot	Mobile Trailer		12
Water Tanks & System	8/82	11/82	13
Mine Fan	9/82	11/82	14
Lump Coal Storage Pad	8/92	10/92	15
Equipment Wash Pad	8/92	10/92	16
Shower House	under construction		17
Antifreeze Storage Tank	12/93	1/94	18
Tank Seam Fan	under construction		19
Tank Seam Borehole Structure	under construction		20

10. Conveyor Structures. These conveyors are the route by which the coal exits the mine to the storage piles and loadouts. Photo #3 pictures the conveyors and load out facilities from below.

Cross Conveyor. In order to reduce problems encountered with the use of the Coal Recovery bin (i.e. fires and coal fine movement) a cross-over belt from the Blind Canyon Seam conveyor to the Hiawatha Seam conveyor was installed in 1989, bypassing the bin. See Photo #9.

~~11. Lamp House. Located near the mine portal to charge cap lamps, and to store safety equipment & supplies. See Photo #10.~~ REMOVED

12. Caretakers Residence. There is not a caretakers Residence in the Permit area at the Present time.

13. Coal Recovery Bin. As the name implies, is approx 50 ft X 100 ft bin where coal fall from the conveyor chute prior to traveling to the crusher is pictured in Photo #11. **- To be removed -**

14. Powder Magazine. Consists of a storage shed. See Photo #7.

15. Lump Coal Facility. Consists of storage bin & loading conveyor. See Photo #6.

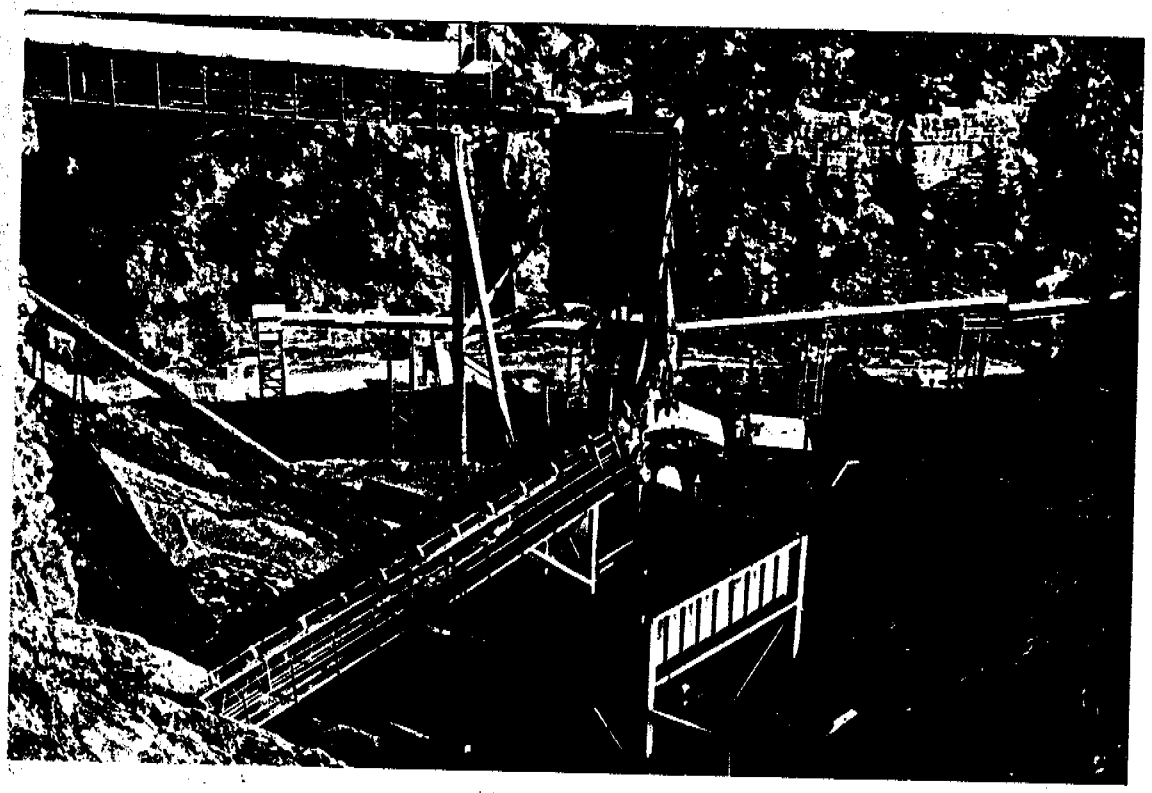

Photo #9 Cross Conveyor

REMOVED

Photo #10 ~~Lamp House~~

DRAFT

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August 15, 1994

TO: Daron Haddock, Pamela Grubaugh-Littig

FROM: Jess Kelley, Reclamation Specialist JK

RE: Draft Review of Amendment 94B--Lamphouse Removal and Portal Pad Recontouring, Bear Canyon Mine, Co-Op Mining Company, ACT/015/025-94B, Folder #2, Emery County, Utah

SYNOPSIS

The Division received the proposed amendment on August 5, 1994. By the amendment, the permittee proposes to remove the Lamphouse from the Lamphouse Pad and regrade the north end of the pad to create an area for the storage of equipment and supplies.

ANALYSIS

The proposed changes will be made entirely within the present disturbed area. The drainage and sediment control system, the topsoil, and the proposed reclamation remain unchanged except for a small decrease in the reclamation cost estimate which is due to the removal of the Lamphouse.

Rule Citation

R645-301-512.100

Discussion

Plates 2-4C--Surface Facilities, 7-1C--Hydrology Map, 7-5--Watershed Map, 8-1--Soils Map, and 8-5C--Reclamation Area have all been revised and recertified by a registered professional engineer in accordance with this section.

Rule Citation

R645-301-521.150

Discussion

Plates 2-4C--Surface Facilities, 7-1C--Hydrology Map, 7-5--Watershed Map, 8-1--Soils Map, and 8-5C--Reclamation Area have all been revised to show the regraded surface configuration of the Lamphouse Pad.

Rule Citation

R645-301-526.110

Discussion

The Lamphouse has been removed from both the surface facilities description and from the relevant maps.

Rule Citation

R645-301-542.500

Discussion

The time required to remove the Lamphouse has been removed from the reclamation timetable. The regrading of the Lamphouse Pad will not alter the approved reclamation regrading plan.

Rule Citation

R645-301-542.800

Discussion

The cost of removing the Lamphouse has been removed from the reclamation cost estimate. This cost amounts to about $625. The regrading of the Lamphouse Pad will not alter the approved reclamation regrading plan. The reclamation bond remains unchanged.

FINDING/RECOMMENDATION

It is recommended that the proposed amendment be approved and included as part of the approved plan.