

3014

007/004 #2

cc: Paul Baker
Steve Johnson
Randy Harden



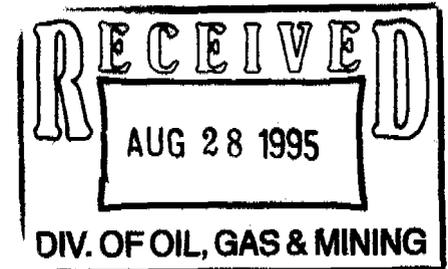
CYPRUS
Plateau Mining

Cyprus Plateau Mining Corporation
P.O. Drawer PMC
Price, Utah 84501
(801) 637-2875

August 28, 1995

Keith H. Sieber
Vice President and General Manager

Mr. Daron Haddock
Permit Supervisor
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203



Re: Pond Removal, Sowbelly Canyon Reclamation Improvements,
Castle Gate Mine, Carbon County Mine, Utah, ACT/007/004

Dear Mr Haddock:

As requested by the Division, after reviewing our August 11, 1995, submittal, enclosed is a notarized Application for Permit Change and revised text addressing the removal of Ponds 016 and 017.

Please incorporate these revisions as an addendum to the August 11, 1995, submittal. If you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Johnny Pappas".

Johnny Pappas
Environmental Engineer

APPLICATION FOR PERMIT CHANGE

Title of Change: Phase I Reclamation Bond Release Issues, Sowbelly Canyon, Castle Gate Mine	Permit Number: 007/004
	Mine: Castle Gate Mine
	Permittee: Amax Coal Company

Description: Request to accelerate reclamation process and minimize future disturbance by removing the sediment ponds in the Fall of 1995. Commitment to resolve excavation variance (from approved reclamation topography plan) of reclamation channel SBRD-4. Submittal of revised Exhibit 3.2-5.

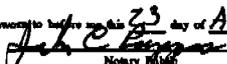
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Change in the size of the Disturbed Area? _____ 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12. Does permit change require or include collection and reporting of any baseline information?
<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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	14. Does permit change require or include soil removal, storage or placement?
<input checked="" type="checkbox"/> Yes	<input 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 checked="" type="checkbox"/> Yes	<input 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.

 *Engr. Eng. August 23, 1995*
 Signed - Name - Position - Date

Subscribed and sworn to before me this 23 day of AUGUST, 1995.


 Notary Public

JOHN C. PAPPAS
 NOTARY PUBLIC • STATE OF UTAH
 1046 EAST CASTLE CIRCLE
 PRICE, UTAH 84501

My Commission Expires: 3-7 1998

Utah
 COUNTY OF CARBON

Received by Oil, Gas & Mining

ASSIGNED PERMIT CHANGE NUMBER

Application for Permit Change Detailed Schedule of Changes to the Permit

Title of Change: Phase I Reclamation Bond Release Issues, Sowbelly Canyon,
Castle Gate Mine

Permit Number: 007/004

Mine: Castle Gate Mine

Permittee: Amax Coal Company

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit change. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the exiting mining and reclamation plan. Include page, section and drawing numbers as part of the description.

	DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED		
ADD	X REPLACE	REMOVE	Exhibit 3.2-5
ADD	X REPLACE	REMOVE	Pages 3.2-18, 3.2-38 and 39
ADD	REPLACE	REMOVE	
Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?			

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water capacity and rock fragments. A total of 9 random soil samples will be taken from the disturbed area in Sowbelly Canyon, equivalent to one sample for every 2.3 acres. Appropriate soil amendments will be added according to the results of tests performed on these samples. Areas which will not revegetate to support the intended land use of wildlife habitat will be covered with 6 inches of resoiling material from Gravel Canyon.

If borrow material is used, the area will be dry and scarified to a depth of 6 inches prior to placement of the borrowed material.

Scarification of the graded soils will be accomplished prior to seeding or placement of borrow material in order to reduce compaction on all graded areas and to improve vegetation establishment. See Section 3.2-5(4) for scarification methods.

Seeding and Mulching - The seed mix defined by Species List #1, as described in Chapter 9, will be used on the majority of the disturbed area in Sowbelly Canyon. The cut slopes to remain will receive special treatment as described in Chapter 9. The areas within 25 feet of the centerline of intermittent reclamation drainage channels (SBRD-1, SBRD-8, SBRD-9) will be seeded with the seed mix defined by Species List #5. In all cases, the seed will be mixed with a small amount of wood fiber mulch, used as tracer, and water to form a slurry. The slurry will be applied to the reclaimed surfaces using a hydroseeder. The balance of the mulch, mixed with a tackifier and the fertilizer in a second slurry, will then be sprayed over the same area. The total coverage of the mulch will be at the rate of 2,000 pounds per acre. In areas inaccessible to the hydroseeder, the seed will be broadcast by mechanical means. Areas inaccessible to the hydromulcher will be mulched with straw and tacked with a nylon or other suitable netting. The rate of application for the straw will be 2,000 pounds per acre.

The reclamation treatments for the reclaimed areas in Sowbelly Canyon are shown on Exhibit 3.2-5. The revegetation will be evaluated for bond release according to the plan described in Chapter 9. Any deviation from this procedure will be performed in accordance with Chapter 9.

3.2-10 As-Built Reclamation Features

Phase II of reclamation was completed in 1994. The reclamation plan presented herein was implemented with only minor modifications. The as-built reclamation topography and sediment control treatments are shown on Exhibit 3.2-13. Variations from the reclamation plan are noted on Exhibit 3.2-14.

The as-built topography map was used in conjunction with field measurements to evaluate the capacity and non-erodibility of the reclamation channels. Bottom width, top width, and depth measurements were taken at numerous locations along each channel to determine minimum cross-sectional geometry. The riprap in each channel was evaluated at arbitrary locations. The evaluation was accomplished by weighing and measuring riprap with a D_{60} of 6 inches or less, and by simply measuring riprap with a D_{50} larger than 6 inches. Channel capacity verification, riprap suitability, and culvert adequacy were determined using the methods presented in Chapter 7. The calculations are contained in Appendix 3.2I. The results of the calculations are summarized in Tables 3.2-18 through 3.2-21. In addition, sediment ponds 016 and 017, as constructed, were analyzed to verify that they meet or exceed design capacity. The inlets and spillways were evaluated for capacity and non-erodibility. The pond calculations are also contained in Appendix 3.2I and summarized in Table 3.2-22.

Reclamation improvements are scheduled for the fall of 1995. Improvements will include the placement of additional fill against the highwall/cutslope in the vicinity of the sealed No. 5 Fan portal, filling a low area adjacent to SBRD-1C, riprap repair in various channels, and reseeding of low-density vegetation areas. In conjunction with this effort, Cyprus/Amox proposes to implement the final reclamation topography plan, as shown on permit Exhibit 3.2-4, by filling in Ponds 016 and 017. The berm diversions directing precipitation runoff to the ponds will also be filled and regraded. The areas disturbed by regrading will be deep gouged using an excavator, and 2 tons/acre of hay mulch will be incorporated into the top 18 inches of the soil. Seeding will immediately follow, and straw

mulch will be applied at the rate of 1 ton/acre. The straw will be lightly crimped in place using the teeth of an excavator bucket. Removal of the ponds negates the need for a maintenance road, and thus, temporary road A-2 will also be removed. Again, the redisturbed area will be gouged, mulched, and seeded. Implementation of the final reclamation topography plan will eliminate the need to redisturb the canyon in several years once vegetation is established.