

PERMIT TRACKING FORM

#2

Permit Amendment(INS)
 Exploration Permit(INS)
 N.O.V. (INS)
 D.O.
 Permit Transfer
 Incidental Boundary Change
 Permit Midterm (MT)
 Permit Renewal (PR)
 New Permit
 Significant Revision (SR)
 Bond Release (BR)

Date Received 09/29/97	By: tat (Initial)	PERMIT NUMBER	ACT/007/038
Title of Proposal: Clean Coal Storage Area Expansion		PERMIT CHANGE #	971
Description:		PERMITTEE	CYPRUS PLATEAU MINING
# Copies Required 5	# Copies Received 5	MINE NAME	WILLOW CREEK
<input type="checkbox"/> PERMIT CHANGE APPLICATION SENT TO SLC		DATE:	LETTER TO PERMITTEE:

<input checked="" type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION OR INITIAL COMPLETENESS REVIEW	DATE DUE	DATE DONE	LETTER TO PERMITTEE:
		10/7	10/7/97
<input type="checkbox"/> Notice of Affidavit of Publication. (If change is a Significant Revision, New Permit or Permit Transfer)	DATE DUE:	DATE DONE	PUBLIC COMMENT RECEIVED:

PFO REVIEW TRACKING	1ST ROUND		2ND ROUND		SLC REVIEW TRACKING	1ST ROUND		2ND ROUND	
	DUE	DONE	DUE	DONE		DUE	DONE	DUE	DONE
<input type="checkbox"/> Lead <input type="checkbox"/> Generalist					<input type="checkbox"/> Lead				
<input type="checkbox"/> Administrative					<input type="checkbox"/> Administrative				
<input type="checkbox"/> Land Use/AQ					<input type="checkbox"/> Land Use/AQ				
<input type="checkbox"/> Biology					<input type="checkbox"/> Biology <i>PAUL</i>	10/15	10/16	12/15	
<input type="checkbox"/> Engineering					<input type="checkbox"/> Engineering <i>WARR</i>	10/15	10/23	12/15	
<input type="checkbox"/> Geology					<input type="checkbox"/> Geology				
<input type="checkbox"/> Soils					<input type="checkbox"/> Soils <i>BOB</i>	10/15	11/5	12/15	
<input type="checkbox"/> Hydrology					<input type="checkbox"/> Hydrology <i>SHARON</i>	10/15	12/8	12/15	

TA Review Due	Date: 12/9	Permittee Response Due <input checked="" type="checkbox"/> Stipulation <input type="checkbox"/> Condition <input type="checkbox"/> No Requirements	Date: Due MIKE 12/23/97	DIVISION DECISION LETTER <input type="checkbox"/> APPROVE <input type="checkbox"/> DENY
TA Review Done	Date:	Response Received	Date:	Date:

COORDINATED REVIEWS	PH CONT	1ST ROUND		2ND ROUND		RECEIVED	ADDITIONAL TRACKING	Date:
		SENT	DUE	SENT	DUE			
<input type="checkbox"/> OSM (C)							PUBLIC HEARING	
<input type="checkbox"/> BLM (C)							LETTER FROM COMPLIANCE SUPER.	
<input type="checkbox"/> USFWS (L, NA)							AVS COMPLETED	
<input type="checkbox"/> WATER RIGHTS (L)							APPROVAL EFFECTIVE DATE	
<input type="checkbox"/> DEQ (L)							APPROVED COPY TO FILE	
<input type="checkbox"/> UTDWR (L)							APPROVED COPY TO PERMITTEE	
<input type="checkbox"/> ST HISTORY (L, NA)							APPROVED COPY TO PFO/SLC	
<input type="checkbox"/> SITLA (L)							APPROVED COPY TO AGENCIES	
							CHIA MODIFIED	
							UPDATE MASTER TA DONE/NEEDED	

COMMENTS: Sent 2/23 submittal to PFO on 2/25, waiting for a copy of 9/30 submittal.

* Copies are by filing cabinet in Tiffini's office.

Application for Permit Change

Detailed Schedule of Changes to the Permit

Title of Change:

Response to December 9, 1997 Analysis and Findings related to the Willow Creek
 Mine Clean Coal Storage Expansion (Amendment 97I)

Permit Number: ACT/007/038

Mine: Willow Creek Mine

Permittee: Cyprus Plateau Mining Corp.

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

<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	pp 3.4-18, 3.4-19, 3.4-21, and 3.4-22 in Section 3.4, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	pp 5-ii and 5-2 in Chapter 5, Exhibit 19
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 5-G in Chapter 5, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	pg 7 of Appendix 8-3, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	pp 9-11 and 9-12 in Chapter 9, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Maps 3.4-4D, 3.4-4E, 3.4-6, and 3.4-8 of Section 3.4, Exhibit 19
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
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<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	

INCORPORATED
EFFECTIVE:

APR 07 1998

A7I

UTAH DIVISION OIL, GAS AND MINING

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

RECEIVED

FEB 23 1998

DIV. OF OIL, GAS & MINING

RECEIVED

DEC 12 1997

DIV. OF OIL, GAS & MINING

Application for Permit Change

Detailed Schedule of Changes to the Permit

Title of Change: Willow Creek Expansion

Permit Number: ACT/007/038

Mine: WILLOW CREEK

Permittee: CYPRUS PLATEAU MINING

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
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Section 3.4 in Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Section 3.4, Tables and Figures
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Cover sheets only on Appendices 3.4A, 3.4B, and 3.4C
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendices 3.4D, 3.4E, 3.4F, 3.4G, and 3.4I
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	The previous Appendix 3.4K becomes Appendix 3.4H, replacement cover sheet provided
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	The previous Appendix 3.4L becomes Appendix 3.4J, replacement cover sheet provided
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	The previous Appendix 3.4N becomes Appendix 3.4K, replacement cover sheet provided
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Maps 3.4-3, 3.4-4A, 3.4-4B, 3.4-4C, 3.4-4D, 3.4-4E, 3.4-4F, 3.4-6, 3.4-7, 3.4-8, 3.4-9, and 3.4-10
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-5 become Map 3.4-2 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-2c become Map 3.4-5 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-9B become Map 3.4-11 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-8 become Map 3.4-12 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 8, Table of Content Page 8-iv, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 8, Page 8-9, Exhibit 19
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 8-3, Exhibit 19
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Attachment to Appendix A, Exhibit 17, Willow Creek M&RP
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Section 3.8 Cover sheet, table of contents, and text, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 11-1 replace all, Exhibit 19

Any questions concerning the information being submitted should be directed to either Vicky Bailey or Richard White (801) 561-1555.

September 26, 1997

INCORPORATED
EFFECTIVE:

APR 07 1998

977

RECEIVED
SEP 30 1997

DIV. OF OIL, GAS & MINING



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

April 7, 1997

Johnny Pappas, Senior Environmental Engineer
Cyprus AMAX Coal Co
847 Northwest Highway 191
Helper, Utah 84526

Re: Clean Coal Stock Pile Area Expansion, Cyprus Plateau Mining, Willow Creek Mine,
ACT/007/038-97I, File #3, Carbon County, Utah

Dear Mr. Pappas:

A stamped approved incorporated clean copy of the referenced amendment is provided for insertion in your mining and reclamation plan.

If you have any questions, please call.

Sincerely,

Joseph C. Helfrich
Permit Supervisor

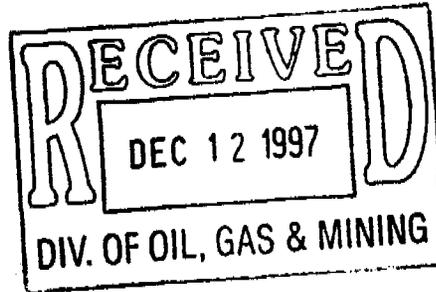
tat

Enclosure

cc: Ranvir Singh, OSM
Richard Manus, BLM
Mark Page, Water Rights, w/o
Dave Ariotti, DEQ, w/o
Bill Bates, DWR, w/o
David T. Terry, SITLA, w/o
Price Field Office

O:\007038.WIL\FINAL\APPROVAL.97I

December 12, 1997



EarthFax
Engineering Inc.
Engineers/Scientists
7324 So. Union Park Ave.
Suite 100
Midvale, Utah 84047
Telephone 801-561-1555
Fax 801-561-1861

Coal Regulatory Program
Utah Division of Oil, Gas & Mining
1594 West North Temple
Salt Lake City, Utah 84114-5703

Subject: Response to December 9, 1997 Analysis and Findings
Related to the Willow Creek Mine Clean Coal Storage
Expansion (Amendment 97I)

AG/007/038 #2
97I

To Whom It May Concern:

At the request of Cyprus Plateau Mining Corporation, we herewith submit the following information related to the above subject:

- Completed original of Form C1
- Completed original of Form C2
- Five copies of the appropriate revisions and additions
- One copy of a summary of the responses to the analysis and findings.

Thank you for your assistance in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Richard B. White".

Richard B. White, P.E.
President

Enclosure

APPLICATION FOR PERMIT CHANGE

Title of Change:
 Response to December 9, 1997 Analysis and Findings related to the Willow Creek Mine
 Clean Coal Storage Expansion (Amendment 971).

Permit Number: ACT/007/038
 Mine: Willow Creek Mine
 Permittee: Cyprus Plateau Mining Corp.

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

Response to December 9, 1997 Technical Analysis

- | | | |
|---|--|---|
| <input checked="" 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 checked="" 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 checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area? |
| <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 4. Will permit change include operations in hydrologic basins other than currently approved? |
| <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond? |
| <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 6. Does the permit change require or include public notice publication? |
| <input checked="" type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 7. Does the permit change require or include ownership, control, right-of-entry, or compliance information? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 8. Permit change as a result of a Violation? Violation # _____ |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 9. Permit change as a result of Division Order? D.O. # _____ |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 10. Permit change as a result of other laws or regulations or policies? Explain: _____ |
| <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 underground design or mine sequence and timing? (Modification of R2P2?) |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 13. Does permit change require or include collection and reporting of any baseline information? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 14. 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 | 15. Does permit change require or include soil removal, storage or placement? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 16. Does permit change require or include vegetation monitoring, removal or revegetation activities? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 17. Does permit change require or include construction, modification, or removal of surface facilities? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 18. Does permit change require or include water monitoring, sediment or drainage control measures? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 19. Does permit change require or include certified designs, maps, or calculations? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 20. Does permit change require or include subsidence control or monitoring? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 21. Have reclamation costs for bonding been provided 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 coal exploration activity? |

Attach 5 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.

John Pappas - Sr. Envr. Eng. 12/12/97
 Signed Name - Position - Date

Subscribed and sworn to before me this 12 day of Dec., 1997.
Diane Rubey
 Notary Public

My Commission Expires: May 1, 1998
 Attest: STATE OF Utah
 COUNTY OF Salt Lake

Notary Public
DIANE RUBEY
 1604 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801
 My Commission Expires
 May 1, 1998
 State of Utah

Received by Oil, Gas & Mining

RECEIVED

DEC 12 1997

DIV. OF OIL, GAS & MINING

ASSIGNED PERMIT CHANGE NUMBER

**RESPONSE TO DECEMBER 9, 1997
TECHNICAL ANALYSIS,
WILLOW CREEK MINE
CLEAN COAL STORAGE EXPANSION**

R645-301-411.140. The applicant needs to provide cultural resources information in compliance with R645-301-411.140. When this information is received, the Division and State History can evaluate it to determine the potential of affecting cultural resources.

The results of a cultural-resource survey have been added as Appendix 5-G of Exhibit 19. The text on page 5-2 of that Exhibit has been modified to refer to the new appendix.

The Permittee failed to meet the requirements of **R645-301-150** and **R645-301-151** by not showing the angle of inclination (contour elevations) along the prevailing slope extending 100 linear feet above and below the area to be disturbed.

Maps 3.4-4D and 3.4-8 have been modified to provide additional contour data outside of the disturbed area.

R645-301-232.100 and **R645-301-232.300.** Because of the extent of the expansion area and the extreme variability of soil quality and thickness, the Division recommends that a non-biased, third party, professional soil scientist be on site during soil salvage to monitor and supervise soil salvage operations for the purpose of maximizing soil salvage volumes and quantities.

Cyprus recognizes the potential of soils on the slope having varying thicknesses. Cyprus will endeavor to remove the A and C horizons. Cyprus appreciates the Division's recommendation to have a non-biased, third party, professional soil scientist on site during soils removal. However, given the experience of Cyprus personnel in the removal of topsoil materials from the refuse disposal area, Cyprus does not believe it is necessary to place this recommendation in the M&RP.

The Permittee failed to meet the requirements of **R645-301-521.180** and **R645-301-521.190.** Prior to approval of 971 the Permittee must describe the support facilities that will be used to keep coal from going outside the permit boundary.

Cyprus will exercise caution during activities at the site to ensure that coal is kept within the permit boundary. Cyprus recognizes that they may be out of compliance with the regulations if coal from the stockpile is deposited outside the permit boundary.

R645-301-722.500. Provide "maps to adequately represent the existing land surface configuration of proposed disturbed areas."

The channel on Map 3.4-4E should have been designated as CGD-21. This map has been revised to reflect this change. Map 3.4-6 has been modified to indicate the minimum required thickness of the riprap on the Pond 011 emergency.

R645-301-242 and R645-301-120. Both Appendix 8-3 and Section 3.4-6 need to be correlated and corrected to address reclamation efforts for the coal pile expansion slope. The MRP needs to commit that topsoil materials removed and stored in the Gravel Canyon topsoil stockpile be redistributed on the coal pile expansion slope to the extent possible to achieve reclamation success.

Pages 3.4-21 and 22 have been modified to state that soil will be salvaged from the clean coal pile storage slope and that soil from the Gravel Canyon topsoil stockpile will be used for reclamation of the slope. Additionally, Appendix 8-3 page 7 has been modified to also state that the slope will be reclaimed with soils from the Gravel Canyon Stockpile.

R645-301-340. The proposed expanded disturbed area overlaps the Barn Canyon grass-sage reference area. The applicant needs to propose an alternative revegetation success standard or to not disturb the existing reference area.

Page 9-11 of Exhibit 19 has been modified to indicate that the reference area will be moved northward, outside of the area to be disturbed by coal storage.

The Permittee failed to meet the requirements of **R645-301-541.200** by not committing to remove all underground structures unless approved for the postmining land use.

The plan has been revised to read as it did prior to the September 1997 submittal.

The Permittee failed to meet the requirements of **R645-301-121.100** by not stating in a clear and concise manner what underground utilities they plan on leaving as part of the postmining land use.

The plan has been revised to read as it did prior to the September 1997 submittal.

The Permittee failed to meeting the requirements of **R645-301-121.100**. Prior to approval, the Permittee must specify when reclamation of the School House Canyon refuse pile site will begin and be completed.

The plan has been revised to read as it did prior to the September 1997 submittal.

The Permittee failed to meet the requirements of **R645-301-121.200** by not being clear and concise about the location of the slope stability analysis for the cut slopes that will remain after reclamation.

As stated on the C2 form which accompanied the September 1997 submittal, "the previous Appendix 3.4K becomes Appendix 3.4H." The new cover sheet was provided for this purpose. Only the designation of the appendix changed. The information regarding slope stability remained the same.

The Permittee failed to meet the requirements of R645-301-121.200 by not being clear and concise about why some cut slopes must remain after reclamation.

The text changes submitted in September 1997 were made merely to reference the maps that were compared to determine which cut slopes would be retained. No changes were made to the reclamation plan. The same cut slopes which were planned for retention prior to September 1997 are still planned for retention as a result of the September 1997 modification.

The Permittee did not meet the requirements of R645-301-830.140. Prior to approval, the Permittee must supply the Division with detailed reclamation cost estimates that include the expanded area of the clean coal stockpile.

The revised bond was provided with the September 1997 submittal as an Attachment to Appendix A of Exhibit 17 (see the C2 form that accompanied the September 1997 submittal).



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

December 9, 1997

Johnny Pappas, Senior Environmental Engineer
Cyprus Plateau Mining Corp.
P.O. Drawer PMC
Price, Utah 84501

Re: Clean Coal Storage Area Expansion, Cyprus Plateau Mining Co., Willow Creek Mine,
ACT/007/038-97L, File #2, Carbon County, Utah

Dear Mr. Pappas:

The technical analysis for the referenced amendment has been completed by our staff. A copy of the technical analysis identifying deficiencies is provided for your review and response. Please respond to these deficiencies by December 23, 1997.

If you have any questions, please call.

Sincerely,

A handwritten signature in cursive script that reads "Joseph C. Helfrich".

Joseph C. Helfrich
Permit Supervisor

tat
Enclosure

cc: Daron R. Haddock, DOGM
Price Field Office
O:\007038.WILAFINALDEFICIEN.971



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

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

October 16, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *NOQZ*

FROM: Paul Baker, Reclamation Biologist *PAB*

RE: Coal Storage Expansion Area, Cyprus Plateau Mining Corporation, Willow Creek Mine, ACT/007/038-971, Folder #2, Carbon County, Utah

SUMMARY:

Cyprus Plateau Mining Corporation has submitted an application to alter its mining and reclamation plan for the Willow Creek Mine. The proposal is to expand the coal stockpile area at the Castle Gate Preparation Plant, and it mainly affects drainage designs and soils. The applicant did not submit any new cultural resources information, and it does not appear the existing plan contains information about this area.

TECHNICAL ANALYSIS:

ENVIRONMENTAL RESOURCE INFORMATION

CULTURAL AND HISTORIC RESOURCES INFORMATION

Regulatory Reference: R645-301-411.140

Analysis:

The applicant is proposing to expand its coal storage area into an undisturbed area. The application did not include new cultural resources information, and the existing mining and reclamation plan does not appear to have this information.

The application is required to contain maps as described under R645-301-411.141 and a supporting narrative which describe the nature of cultural and historic resources listed or

eligible for listing in the National Register of Historic Places and known archeological sites within the permit and adjacent areas. The description will be based on all available information, including, but not limited to, information from the State Historic Preservation Officer and from local archeological, historic, and cultural preservation agencies.

Because of the proximity of this site to several disturbances, it is likely a cultural resources survey has been done previously and that a literature search would provide necessary information.

The Division and State History cannot determine the potential effect on cultural resources without this information, so an evaluation of potential impacts will need to wait until it is received.

Findings:

Information provided in the proposed amendment is not considered adequate to meet the requirements of this section. Prior to approval, the applicant must provide the following in accordance with:

R645-301-411.140, The applicant needs to provide cultural resources information in compliance with R645-301-411.140. When this information is received, the Division and State History can evaluate it to determine the potential of affecting cultural resources.

RECOMMENDATIONS:

The Division needs to receive cultural resources information before making a recommendation to the Division of State History whether the proposed project will affect cultural resources.



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

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Division Director

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Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

October 23, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *DH*

FROM: Wayne H. Western, Senior Reclamation Specialist *WHW*

RE: Clean Coal Stock Pile Area Expansion, Cyprus Plateau Mining, Willow Creek, ACT/007/038-97I, File #2, Carbon County, Utah

Summary:

On September 30, 1997, the Permittee for the Willow Creek Mine submitted amendment 97I that proposed to expand the clean coal stock pile area. The expansion of the clean coal stock pile would increase the disturbed area by 3.9 acres. The Permittee also requests to make changes to the reclamation of the School House Canyon refuse site and reclamation of the pre-SMCRA cut slopes.

The information in the engineering section of the amendment is inadequate. Prior to approval the Permittee must supply the Division with the information requested in this memo.

TECHNICAL ANALYSIS:

ENVIRONMENTAL RESOURCE INFORMATION

PERMIT AREA AND PREMINING CONDITIONS

Regulatory Requirements: R645-301-521.

MAPS, PLANS, AND CROSS SECTIONS OF RESOURCE INFORMATION

Regulatory Reference: 30 CFR Sec. 783.24, 783.25; R645-301-323, -301-411, -301-521, -301-622, -301-722, -301-731.

Analysis:

Contour Maps

Map 3.4-8, Operations Contour Map, shows the expanded disturbed area boundary. Map 3.4-8 does not show the contours in and around the proposed expansion to the disturbed area nor are the permit boundaries shown. R645-301-521.150 and R645-301-521.151 deal with contour maps and the regulations state:

These maps will clearly indicate sufficient slope measurements or surface contours to adequately represent the existing land surface configuration of the proposed permit area for the purposes of SURFACE COAL MINING AND RECLAMATION ACTIVITIES and the area affected by surface operations and facilities for the purposes of UNDERGROUND COAL MINING AND RECLAMATION ACTIVITIES measured and recorded according to the following:

Each measurement will consist of an angle of inclination along the prevailing slope extending 100 linear feet above and below or beyond the coal outcrop or the area to be disturbed, or, where this is impractical, at locations specified by the Division.

The Permittee considered showing the contours elevations in and around some parts of the permit boundary as impractical. Since those areas they wish to exclude were outside the disturbed area boundaries the Division agreed with the Permittee.

The Permittee wants to include some of the areas that were excluded from the contour elevation requirements into the disturbed area. The Division considers having contour elevations for all parts of the disturbed area important. Prior to expanding the disturbed area boundary the Permittee must show the contour elevations for all areas in and around the disturbed boundary.

Findings:

The Permittee failed to meet the requirements of R645-301-150 and R645-301-151 by not showing the angle of inclination (contour elevations) along the prevailing slope extending 100 linear feet above and below the area to be disturbed.

OPERATIONAL PLAN

OPERATIONAL ENGINEERING

Regulatory Reference: 30 CFR Sec. 784.2, 784.11; R645-301-231, -301-526, -301-528, -301-521, -301-526.

Mining Operations And Facilities

Type and Method of Mining Operations

Analysis:

Figure 1, Soil Sample Locations map, shows the maximum extent of the expanded clean coal pile. The east boundary of the coal pile is also the permit and disturbed area boundary. The Permittee does not discuss how they will prevent coal from going outside the permit boundary.

Under R645-301-521.180 and R645-301-521.190 the Permittee is required to supply the Division with information about the support facilities. The Division needs to know what type of facilities the Permittee will use to prevent coal from going outside the permit boundary.

Findings:

The Permittee failed to meet the requirements of R645-301-521.180 and R645-301-521.190. Prior to approval of 97I the Permittee must describe the support facilities that will be used to keep coal from going outside the permit boundary.

RECLAMATION PLAN

GENERAL REQUIREMENTS

Analysis:

In Section 3.4-6(1) of amendment 97I under the headings of Phase I Reclamation and Demolition the Permittee changes the commitment to removal all the existing structures to a commitment to remove all existing aboveground structures. The Division is concerned about changing the commitment to remove all above ground structures. Footings and foundations could be considered below ground structure and therefore exempt from demolition and removal.

The Permittee changes another reclamation commitment from removing all piping in the permit area to removing all piping in the permit area to the extent practical.

The Division is aware that there are underground utilities in the permit area and the removal of those utilities is not required under reclamation. The Division realizes that in some cases leaving pipes in place will result in less environmental harm than removing the pipes. Therefore, the Division does not expect the Permittee to removal all underground utilities as part of reclamation. To avoid confusion the Permittee needs to list those underground utilities that will be left in place and describe why those utilities should be left in place.

Findings:

The Permittee failed to meet the requirements of R645-301-541.200 by not committing to remove all underground structures unless approved for the postmining land use.

The Permittee failed to meet the requirements of R645-301-121.100 by not stating in a clear and concise manner what underground utilities they plan on leaving as part of the postmining land use.

RECLAMATION ENGINEERING PLAN

Timetable

Analysis:

In Section 3.4-6(1) of amendment 97I the Permittee states:

Reclamation of the School House Canyon refuse site will begin as soon as practical after the canyon is filled to its design capacity.

In Section 3.4-4(1) of the MRP the Permittee states:

Reclamation of the School House Canyon refuse site will begin as soon as the canyon is filled to its design capacity.

The Permittee added the word practical to the timetable for reclamation of the School House Canyon refuse site. The Division realizes that some phases of reclamation can only be completed during certain times of the year. Therefore, the Division approves the Permittee's request to remove the unrealist commitment to begin reclamation as soon as the canyon is filled. The term as soon as practical is vague. The Permittee needs to make a specific commitment as to when reclamation work will begin. The Permittee could state that reclamation would be completed with a specific time interval after the refuse site is filled.

Findings:

The Permittee failed to meet the requirements of R645-301-121.100. Prior to approval the Permittee must specify when reclamation of the School House Canyon refuse site will begin and be completed.

Backfilling and Grading

Analysis:

In Section 3.4-6(1) under the heading of Grading the Permittee states:

A comparison of Maps 3.4-1 and 3.4-10 indicates that all post-SMCRA and most pre-SMCRA cut slopes will be backfilled to the extent practical during reclamation. Those pre-SMCRA cut slopes which cannot practically be reclaimed are identified on Map 3.4-9. The cut slopes were analyzed for stability in their present configuration and for long-term retention following reclamation. This analysis is presented in Appendix 3.4H, with the cross sections used to analyze the slopes shown on Map 3.4-8.

Appendix 3.4H consists solely of a title page. The Permittee must include the complete slope stability analysis in the amendment.

The Permittee must also justify why some cut slope will remain after final reclamation. The Division needs to document why reclamation of some cut slopes is impractical.

Findings:

The Permittee failed to meet the requirements of R645-301-121.200 by not being clear and concise about the location of the slope stability analysis of the slope stability analysis for the cut slopes that will remain after final reclamation.

The Permittee failed to meet the requirements of R645-301-121.200 by not being clear and concise about why some cut slope must remain after final reclamation.

Bonding and Insurance Requirements

Determination Of Bond Amount

Analysis:

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October 23, 1997

The Permittee did not supply the Division with updated reclamation cost information. Under the requirements of R645-301-830.140 the Permittee is required to supply the Division with a detailed estimated cost, with supporting calculations for the reclamation cost estimate.

Findings:

The Permittee did not meet the requirements of R645-301-830.140. Prior to approval the Permittee must supply the Division with detailed reclamation cost estimates that include the expanded area of the clean coal stockpile.

Recommendation:

Prior to approval the Permittee must comply with all the above mention deficiencies.



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

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October 16, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *ORH*

FROM: Paul Baker, Reclamation Biologist *PAB*

RE: Coal Storage Expansion Area, Cyprus Plateau Mining Corporation, Willow Creek Mine, ACT/007/038-97I, Folder #2, Carbon County, Utah

SUMMARY:

Cyprus Plateau Mining Corporation has submitted an application to alter its mining and reclamation plan for the Willow Creek Mine. The proposal is to expand the coal stockpile area at the Castle Gate Preparation Plant, and it mainly affects drainage designs and soils. One of the revegetation reference areas is in the area proposed to be disturbed, and Cyprus needs to propose an alternative to this reference area.

TECHNICAL ANALYSIS:

RECLAMATION PLAN

REVEGETATION PLAN

Regulatory Reference: R645-301-340

Analysis:

The applicant has proposed to expand its coal storage area at the Castle Gate Preparation Plant. Expansion would be to the north of the existing stockpile area.

Although the area contains undisturbed land, this area has been previously surveyed for threatened, endangered, and sensitive species and for vegetation cover. Therefore, further baseline data is not needed.

The proposed expansion area overlaps with the Barn Canyon grass-sage reference area. This area would be used for judging revegetation success in parts of Crandall Canyon. The applicant needs to find an alternative to either the disturbance or to the success standard.

According to Table 3.3 on page 29 of Appendix 9-1, the grass-sage reference area would be used to compare to the leach field in Crandall Canyon. Appendix 3.7T indicates the grass-sage reference area would be used for comparison to the area near the shaft in Crandall Canyon. This conflict needs to be resolved although it is not a deficiency related to the application.

Although the existing reference area is approved, there are important differences between it and the disturbed areas in Crandall Canyon. The disturbed areas are near the bottom of the canyon and are relatively flat with fairly deep soil, but the reference area is steep and rocky with shallow soil.

This time of year, it may be difficult to find a more appropriate reference area, so it may be most expedient for the applicant to simply propose moving the reference area north so it is not in the disturbed area. However, the applicant should plan to work with the Division to find a different, more suitable reference area.

Findings:

Information provided in the proposed amendment is not considered adequate to meet the requirements of this section. Prior to approval, the applicant must provide the following in accordance with:

R645-301-340, The proposed expanded disturbed area overlaps with the Barn Canyon grass-sage reference area. The applicant needs to propose an alternative revegetation success standard or to not disturb the existing reference area.

In addition, the plan contains a conflict regarding which reference areas will be used to judge revegetation success in Crandall Canyon. This does not relate directly to the current proposal but will need to be corrected.

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ACT/007/038-97I
October 16, 1997

RECOMMENDATIONS:

Cyprus needs to either not disturb the Barn Canyon grass-sage reference area or to propose an alternative revegetation success standard. It is suggested the current reference area be moved to the north. Cyprus will need to work with the Division to find a better success standard and to resolve a conflict in the mining and reclamation plan.



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

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December 8, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *DH*

FROM: Michael J. Suflita, Reclamation Hydrologist *MS as is*

RE: Clean Coal Storage Area Expansion, Cyprus Plateau Mining Co., Willow Creek Mine, ACT/007/038-97I, File #2, Carbon County, Utah.

SYNOPSIS

On September 30, 1997 the Division received an amendment to the M&RP requesting to expand the coal storage facility and modify the runoff facilities. This Technical Analysis addresses the Hydrology aspects of that submittal. Due to the lateness of the season, the Operator would like start construction immediately and has requested that discrepancies be dealt with by stipulation. That is seen as possible. **Due to the lateness of the review, the Reclamation portion of the submittal has NOT been entirely reviewed as part of this TA.** This will allow the Operator to proceed with construction and, if necessary, respond to Reclamation discrepancies at a later time.

TECHNICAL ANALYSIS

BASELINE ENVIRONMENTAL RESOURCE INFORMATION

HYDROLOGIC RESOURCE INFORMATION

Regulatory Reference: R645-301-723 through 726, 728, 729,

Analysis:

The proposed modifications do not affect the baseline information, including sampling and analysis, CHIA, modeling, PHC, surface water monitoring, and ground water monitoring.

Findings:

The plan is in compliance with the above regulations.

OPERATION PLAN**HYDROLOGIC INFORMATION**

Regulatory Reference R645-301-720

Analysis:

There appear to be two minor drafting mistakes that need to be cleaned up. On Map 3.4-4 (E) and (A&B) there are two entirely different ditches with the same designation CGD-6. The ditch on (E) has three designations for one ditch which is confusing. The second item needing clarification no designation could be found for the riprap thickness for the emergency spillway on pond 011. See Map 3.4-6 and Appendix 3.4E, Page 7.

Finding:

Information provided in the proposed amendment is not considered adequate to meet the requirements of these sections of the regulations. Prior to approval the Operator must provide the following in accordance with:

R645-301-722.500, provide, "maps to adequately represent the existing land surface configuration of proposed disturbed areas".

Regulatory Reference R645-300-133.710

Analysis:

The main hydrologic change to the MRP is to increase the size of sedimentation pond 011 due to the increased area reporting to the pond. This area is increased since a ditch that formerly diverted drainage around the coal pile and away from the pond will be covered by the larger coal pile and the water will, in turn, drain into the pond. The pond could be reclaimed in it's previous configuration and can still be reclaimed in it's slightly larger configuration.

A second hydrologic change is the addition of a sediment trap at the unit train loadout. This is an improvement to the area which will reduce erosion. The area is only 0.5 acre and is included in the existing disturbed area. Reclamation will be easily achieved in this area.

The other hydrologic aspects of the submittal are a re-examination of existing facilities such as sedimentation pond 013, drainage ditches, and drainage culverts on the site. These facilities are

not changed. They were found to be reclaimable in the previous plan and are still reclaimable now.

Finding:

The modifications to the MRP do not alter the ability of the Operator to reclaim the site. The ammendment has, "Demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application."

RECOMMENDATION

The ammendment can be approved in it's present form. The minor drafting errors should be corrected.

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

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November 5, 1997

TO: File

THRU: Joe Helfrich, Permit Supervisor *JK for Joe Helfrich*

FROM: Robert Davidson, Soils Reclamation Specialist *RAD*

RE: Clean Coal Storage Area Expansion, Cyprus Plateau Mining Corporation, Willow Creek Mine, ACT/007/038-971, File #2, Carbon County, Utah

SYNOPSIS:

The northern coal storage area is being expanded to support production levels from the Willow Creek Mine. Expansion will increase surface disturbance by 3.9 acres, which will increase the total disturbance acreage from 74 to approximately 78.

TECHNICAL ANALYSIS:

ENVIRONMENTAL RESOURCE INFORMATION

SOILS RESOURCE INFORMATION

Regulatory Reference: 30 CFR Sec. 783.21, 817.200(c); R645-301-220, -301-411.

Analysis:

Appendix 8-3 contains the environmental resource information for soils within the clean coal storage area expansion as follows:

- Soil Identification and Description
- Soil Analytical Data
- Soil Sampling Map

Soil Identification and Description

Three sampling sites (CPTP-1, 2, & 3) were located on the hillside east of the clean coal storage area. Shallow trenches were excavated using a backhoe for sites 1 and 2 while site 3 was excavated by hand into an exposed, existing road cut. Soils were logged at each site and samples were collected from each diagnostic horizon. Attachment B contains the field soil logs.

The dominate soil type on slopes adjacent to the clean coal pile is Travessilla-Rock outcrop-Gerst complex¹. This complex contains 40 percent Travessilla extremely bouldery loam, 30 percent Rock outcrop, 20 percent Gerst very channery loam, and 10 percent other soils. Travessilla soils are found on the north and west aspects at higher elevations on 40 to 70 percent slopes. The Gerst soils are found on south and west aspects at lower elevations on 50 to 70 percent slopes. The Gerst soil is identified as Loamy, mixed (calcareous), mesic shallow Ustic Torriorthents while the Travessilla soil is identified as Loamy, mixed (calcareous), mesic Lithic Ustic Torriorthents. The main difference between these two soils is soil thickness; the Gerst soils are approximately 20 inches thick while the Travessilla soils are thinner at about 10 inches thick. Soil descriptors for *mesic Ustic Torriorthents* are defined as follows:

- mesic - 8 to 15 °C mean annual soil temperature
- Lithic - near stone
- Ustic - dry climate soil moisture regime
- Torr - usually dry
- Orthos - true
- Entisol - recent soil development

Sampling locations, vegetation, rooting depth, and soil-profile descriptions are given for each of the three sample sites. Sampling sites CPTP-1 and CPTP-2 contain deeper soils at 18 and 26 inches, respectively, while CPTP-3 contains shallower soils at 8 inches thickness. As observed in the field, the shallower soils are found on the hillsides while the deeper soils are found at the toe of the slope. Soils are generally loam to sandy loam; rock, mostly gravels and cobbles, increases with depth.

Soil Analytical Data

Attachment C, contains the analytical data sheets for soil samples collected from each of the samples sites, CPTP-1, 2 and 3. Laboratory data are compiled and condensed into Table 1.

¹ Jensen, E.H., and Borchert, J.W., 1988. Soil Survey of Carbon Area, Utah Soil Conservation Service, United States Department of Agriculture, Washington D.C.

Each of the measured parameters fall within the acceptable range of the Division's guidelines for evaluating topsoil and overburden².

Soil Sampling Map

Attachment A, Figure 1, Soil Sample Locations, shows each of the three sample locations in relation to the expanded clean coal pile.

Findings:

The information provided meets the regulatory requirements of this section.

OPERATION PLAN

TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-230.

Analysis:

The Clean Coal Pile Expansion amendment, Appendix 8-3, covers the following operational considerations for soil salvage and protection of the soil resource:

- Clean Coal Pile Expansion Area
- Soil Specialist Supervision - one recommendation included
- Soil Salvage Considerations

Clean Coal Pile Expansion Area

The maximum extent of the expanded clean coal pile is shown on Figure 1, Soil Sample Locations. The expansion area occupies an additional 3.9 acres. Although Figure 1

² Leatherwood, James, and Dan Duce. 1988. Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining. State of Utah, Department of Natural Resources, Division of Oil, Gas and Mining. Salt Lake City, Utah.

shows the coal pile expansion reaching an elevation near 6390 feet, the amendment states that the coal pile will probably only extend to a maximum elevation of 6240 feet.

Soil Specialist Supervision

The actual thickness of soil to be removed will vary across the area. Based on the limited knowledge provided from the three sampling pits, soil depth may vary from 24 inches at the toe of the slope to less than 8 inches on the slope. Additional soil pits randomly located on the hill would help verify soil thickness variability. *Therefore, because of the extent of the expansion area and the extreme variability of soil quality and thickness, the Division recommends that a non-biased, third party, professional soil scientist be on-site during soil salvage to monitor and supervise soil salvage operations for the purpose of maximizing soil salvage volumes and quantities.*

Soil Salvage Considerations

Soil salvage will occur from the slope east of the coal storage area and will be accomplished in stages as the coal pile is enlarged. Soils will be stripped from the slope at least 10 to 15 feet above the maximum level of the coal pile, thus maintaining a buffer zone around the coal pile. Thus, excess areas of the slope will not be unnecessarily denuded while protecting the in-place, undisturbed soils from being contaminated with coal.

The A and C horizons will be stripped from the slope and stored in Gravel Canyon topsoil storage area. The lowermost C horizons (i.e., Cr, C2r, and C3r) are generally very poorly developed soils and will not be salvaged. No B horizon exists. After removing the larger woody plants, the remaining vegetation will be salvaged and stored with the soils in the soil stockpile.

During expansion, Cyprus commits to salvaging all reasonably available soil.

Findings:

Information provided in the proposed amendment meets the minimum regulatory requirements for this section. However, the following recommendation is given to the permittee in accordance with:

R645-301-232.100 and R645-301-232.300. Because of the extent of the expansion area and the extreme variability of soil quality and thickness, the Division recommends that a non-biased, third party, professional soil scientist be on-site during soil salvage to monitor and supervise soil salvage operations for the purpose of maximizing soil salvage volumes and quantities.

RECLAMATION PLAN

TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-240.

Analysis:

Appendix 8-3 references the Mine Reclamation Plan's Section 3.4-6 for final reclamation procedures. However, Section 3.4-6 contains no specifics for reclaiming the coal expansion slope. Appendix 8-3 states that coal will be removed prior to dressing the slope with soils containing a high rock percentage. Appendix 8-3 does not state whether the soil dressing will be in-place soils or soils imported from the Gravel Canyon topsoil stockpile. Furthermore, Section 3.4-6, **Resoiling**, page 3.4-21, states that no soil was salvaged from the Castle Gate site except in the area of the refuse pile. This section states that existing soils at the site will be used as resoiling material except at the refuse pile, where the salvaged topsoil will be used. No mention is given for soils salvaged from, or redistributed to, the clean coal pile expansion area.

Both Appendix 8-3 and Section 3.4-6 need to be correlated and corrected to address reclamation efforts for the coal pile expansion slope. The MRP needs to commit that topsoil materials removed and stored in the Gravel Canyon topsoil stockpile be redistributed on the coal pile expansion slope to the extent possible to achieve reclamation success.

Findings:

Information provided in the proposed amendment is not considered adequate to meet the requirements of this section. Prior to approval, the permittee must provide the following in accordance with:

R645-301-242 and R645-301-120. Both Appendix 8-3 and Section 3.4-6 need to be correlated and corrected to address reclamation efforts for the coal pile expansion slope. The MRP needs to commit that topsoil materials removed and stored in the Gravel Canyon topsoil stockpile be redistributed on the coal pile expansion slope to the extent possible to achieve reclamation success.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
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October 7, 1997

Johnny Pappas, Senior Environmental Engineer
Cyprus Plateau Mining Corporation
P.O. Drawer 7707
Price, Utah 84501-7707

Re: Clean Coal Storage Area Expansion, Cyprus Plateau Mining Corporation, Willow Creek Mine, ACT/007/038-97I, File #2, Carbon County, Utah

Dear Mr. Pappas:

The referenced amendment depicting the expansion of the Willow Creek clean coal storage area and runoff control improvements at the unit train loadout was received by the Division September 30, 1997. We anticipate completing review of this amendment by October 15, 1997. A copy of your proposal is located at our office in Salt Lake should other entities have an interest in reviewing.

If you have any questions regarding the status of this amendment, please call.

Sincerely

Joseph C. Helfrich
Permit Supervisor

tat
cc: Ranvir Singh, OSM
Richard Manus, BLM
Mark Page, Water Rights
Dave Ariotti, DEQ
Bill Bates, DWR
David T. Terry, SITLA
Pete Hess, DOGM
Price Field Office
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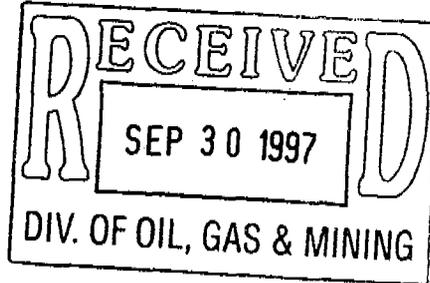


**CYPRUS PLATEAU
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A Cyprus Amax Company

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September 29, 1997

Mr. Daron Haddock
Utah Division of Oil, Gas and Mining
1594 West North Temple
Salt Lake City, UT 84114-5801



ACT/007/038 #2
Daron

Re: Unit Train Loadout, Preparation Plant Runoff Control, and Clean Coal Storage Area Expansion Amendment, Willow Creek Mine, ACT/007/038, Carbon County, Utah

Dear Mr. Haddock;

Please find enclosed with this letter five (5) copies of the revisions to the Willow Creek Mine M&RP that address the above referenced permit modifications. These modifications are necessary to facilitate the expansion of the Willow Creek Clean Coal Storage area and improve the runoff control and treatment at the Unit Train Loadout. The changes to the permit are outlined on the enclosed C-1 and C-2 forms.

Your immediate attention to this submittal is critical since it includes modifications of existing sediment controls and removal of soils which will require construction to be performed this fall. Cyprus Plateau would like to start and finish the construction work during the fall to facilitate Cyprus Plateau's anticipated production.

During the Division's review, Cyprus Plateau would like the division to consider allowing for the commencement of the enlargement of Sediment Pond 011, the construction of the Unit Train Loadout runoff control structures, and topsoil removal activities to proceed once their design has been reviewed. The design of these structures and activities have been done in accordance with the R645 Coal Rules. Cyprus Plateau is requesting that the permit modifications be approved as is or, if necessary, with stipulations that would allow work to commence immediately.

If you have any questions regarding this submittal or need additional information, please do not hesitate to call me or Mr. Ben Grimes at 801-637-2875.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

JP/kc

APPLICATION FOR PERMIT PROCESSING

Permit Change <input checked="" type="checkbox"/>	New Permit <input type="checkbox"/>	Renewal <input type="checkbox"/>	Transfer <input type="checkbox"/>	Exploration <input type="checkbox"/>	Bond Release <input type="checkbox"/>	Permit Number: ACT/007/038
Title of Proposal: Willow Creek Mine Expansion						Mine: WILLOW CREEK
						Permitter: CYPRUS PLATEAU MINING

Describe, include reason for application and timing required to implement:

Expansion of clean coal storage pile, modification of Sedimentation Pond 011, design of alternative sediment controls, editorial changes

Instructions: If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation specialist.

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? 3.9 acres increase.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO #
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	9. Is the application submitted as a result of a Violation? NOV #
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain:
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P22)
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

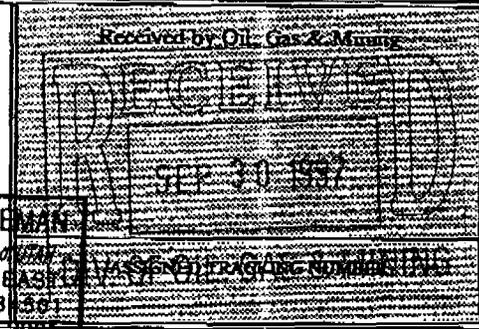
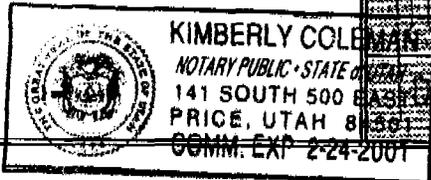
Attach 5 complete copies of the application.

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.

John Pappas - JOHNNY PAPPAS - Sr. Engr. 9/26/97
Signed - Name - Position - Date

Submitted and sworn to before me this 26 day of Sept. 1997.

Kimberly Coleman
Notary Public
STATE OF Utah
COUNTY OF Carbon
Feb. 29, 2001



Application for Permit Change Detailed Schedule of Changes to the Permit

Title of Change: Willow Creek Expansion

Permit Number: ACT/007/038

Mine: WILLOW CREEK

Permittee: CYPRUS PLATEAU MINING

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
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Section 3.4 in Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Section 3.4, Tables and Figures
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Cover sheets only on Appendices 3.4A, 3.4B, and 3.4C
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendices 3.4D, 3.4E, 3.4F, 3.4G, and 3.4I
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	The previous Appendix 3.4K becomes Appendix 3.4H, replacement cover sheet provided
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	The previous Appendix 3.4L becomes Appendix 3.4J, replacement cover sheet provided
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	The previous Appendix 3.4N becomes Appendix 3.4K, replacement cover sheet provided
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Maps 3.4-3, 3.4-4A, 3.4-4B, 3.4-4C, 3.4-4D, 3.4-4E, 3.4-4F, 3.4-6, 3.4-7, 3.4-8, 3.4-9, and 3.4-10
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-5 become Map 3.4-2 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-2c become Map 3.4-5 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-9B become Map 3.4-11 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Castle Gate's Exhibit 3.4-8 become Map 3.4-12 in Willow Creek's Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 8, Table of Content Page 8-iv, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Chapter 8, Page 8-9, Exhibit 19
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 8-3, Exhibit 19
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Attachment to Appendix A, Exhibit 17, Willow Creek M&RP
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Section 3.8 Cover sheet, table of contents, and text, Exhibit 19
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 11-1 replace all, Exhibit 19

Any questions concerning the information being submitted should be directed to either Vicky Bailey or Richard White (801) 561-1555.

September 26, 1997

