

0030



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
P.O. Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340
(801) 359-3940 (Fax)

February 27, 1997

Ben Grimes, Senior Staff Project Engineer
Cyprus Plateau Mining Corporation
P.O. Drawer PMC
Price, Utah 84501

RE: School House Canyon Refuse Pile Drainage Ditches CGD-6 and CGD-7, Cyprus Plateau Mining Company, Willow Creek Preparation Plant, ACT/007/038-97C, Folder #3, Carbon County, Utah

Dear Mr. Grimes:

The additional information which pertains to the aforementioned amendment as received in this office on February 26, 1997 has been reviewed.

I have compared the cross sectional flow areas for both of the new designs versus the current designs. The triangular shaped ditches both have larger cross sectional flow areas as compared to the current trapezoidal designs, by approximately one square foot each.

With the exception of the permit numbering on the lower left hand corner of the text, tables, and appendices pages, the February 26, 1997 submittal adequately addresses the concerns I aired on February 13. As you indicated during a previous telephone conversation, although this text is part of the Castle Gate MRP, identical text is now included in Exhibit 19 of the Willow Creek MRP. To change these numbers in this submittal would add further confusion in the future. Amendment 97C is approved, effective February 27, 1997.

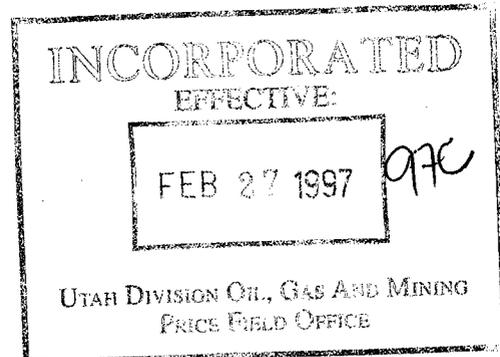
Thank you for your expedient response to my concerns.

Sincerely,

Peter Hess
Reclamation Specialist III

sd
enclosures

cc: Ranvir Singh, OSM, Denver
Richard Manus, BLM, Price
Mark Page, Water Rights, Price, w/o enc
Dave Ariotti, DEQ, Price, w/o enc
Bill Bates, DWR, Price, w/o enc
Joe Helfrich, DOGM, SLC
Sharon Falvey, DOGM, SLC, w/o enc
Steve Johnson, DOGM, SLC, w/o enc



TRACKING FORM

I. KEY FEATURES OF PERMITTEE'S AMENDMENT APPLICATION

Permittee Pacific Corp	Mine Name Willow Creek	Amendment # ACT/007/038-97C	Date Received / via 2-11-97 US Mail
Proposal: Refuse Pike Ditches Design			
Description: Revise designs to a triangular shape that will make maintenance simpler as the refuse pile grows upwards			

II. AMENDMENT CLASSIFICATION

<input type="checkbox"/> Major Amendment	Public Notice Required	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Minor Amendment	Outside of Permit Area	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Outside of Disturbed Area	<input type="checkbox"/> Yes	<input type="checkbox"/> No

III. SUMMARY OF DOGM PROCESSING DATES

Reviews Completed	2/13/97 Deficient	FOLLOWUP REQUIREMENTS	
Approved Effective		MRP "After Const" Documents	<input type="checkbox"/> Yes <input type="checkbox"/> No
Disapproved	2/13/97	TA	<input type="checkbox"/> Yes <input type="checkbox"/> No
Mailed		CHIA	<input type="checkbox"/> Yes <input type="checkbox"/> No
Filed MRP - SLO		Responds Within 15 days of Receipt? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain below.	

IV. COORDINATED REVIEWS

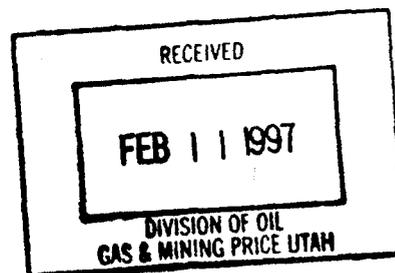
EXTERNAL AGENCIES (Mine Specific) <small>(Adverse Comments, if Any, include in Item V)</small>	DOGM REVIEWS/DISCIPLINES		
	COPY SENT	CONTACTED	
OSM	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	Generalists <input type="checkbox"/> Yes <input type="checkbox"/> N/A
BLM	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	INTERDISCIPLINARY APPROACH
US Forest Service	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Administrative <input type="checkbox"/> Yes <input type="checkbox"/> N/A
US Fish & Wildlife	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Biology <input type="checkbox"/> Yes <input type="checkbox"/> N/A
US National Parks	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Engineering <input type="checkbox"/> Yes <input type="checkbox"/> N/A
UT Environmental Quality	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Geology <input type="checkbox"/> Yes <input type="checkbox"/> N/A
UT Wildlife Resources	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Hydrology <input type="checkbox"/> Yes <input type="checkbox"/> N/A
UT State History	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Soils <input type="checkbox"/> Yes <input type="checkbox"/> N/A
UT Water Rights	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Permitting <input type="checkbox"/> Yes <input type="checkbox"/> N/A
UT SITLA	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	- Other <input type="checkbox"/> Yes <input type="checkbox"/> N/A
Other	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> C <input type="checkbox"/> N/A	

V. FOOTNOTES/ADDITIONAL EXPLANATION AS NECESSARY

*Reviewed 2/12-13/97 - Deficiency Letter of 2/13
Resubmitted 2-26-97
Discussed ~~comparison~~ my plan for comparison of cross-sectional flow areas for CGD-6 + CGD-7 with Sharon Falvey + Steven Johnson, SLC hydros of 2-20-97. They agreed this would be OK with them.
Reviewed new submittal 2-27-97. Compared X-sections. New designs have larger X-sectional areas. Relayed to Steve Johnson. Amendment approved 2-27-97. PH on 2/27/97.*

February 8, 1997

Mr. Pete Hess
Utah Department of Natural Resources
Division of Oil, Gas and Mining
451 East 400 North
CEU Box 169
Price, Utah 84501-2699



Dear Mr. Hess,

RE: WILLOW CREEK PERMIT CHANGE - REFUSE PILE DITCHES DESIGN

Enclosed is a permit change form and materials for a proposed revision to refuse pile ditches CGD-6 (Upper) and CGD-7 (Upper). As we have discussed previously, these ditches are very difficult to maintain in the current trapezoidal configuration during active refuse pile construction. This proposed change is to revise the designs to a triangular shape that will be much simpler to maintain while the refuse pile grows upwards.

As you will see in the calculations ditch CGD-7 has been designed to allow for a channel slope of from 1% to 3% to avoid the need for riprap. Ditch CGD-6 has been designed to allow for a channel slope of from 1% to 2.5% to avoid the need for riprap.

To assist in your review one set of revised text, tables and calculations with the changes highlighted has been included. Five copies ready for insertion into the MRP are included.

Respectfully,

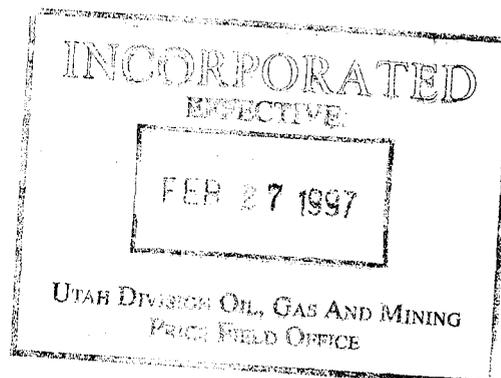


Ben Grimes
Sr. Staff Project Engineer

Enclosures

C: Paul Baker
Johnny Pappas w/o enclosures

File: WCENV 2.5.2.16.10.1
Chron: BG970110



APPLICATION FOR PERMIT CHANGE

Title of Change:

REVISE REFUSE PILE DITCHES CGD6 AND CGD7

Permit Number: ACT/007/038

Mine: WILLOW CREEK MINE

Permittee: CYPRUS PLATEAU MINING

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

REFUSE PILE DITCHES CGD6 AND CGD7 ARE CURRENTLY DESIGNED AS TRAPEZOIDAL DITCHES AND ARE IMPRACTICAL TO MAINTAIN. THIS CHANGE IS TO REVISE THE DITCHES TO A TRIANGULAR SHAPE TO ALLOW A MORE WORKABLE CONFIGURATION DURING REFUSE PILE CONSTRUCTION.

<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 the permit change require or include public notice publication?
<input 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	14. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	15. Does permit change require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	16. Does permit change require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Yes	<input checked="" 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? _____

RECEIVED
 FEB 27 1997
 DIVISION OF OIL
 GAS & MINING PRICE FIELD OFFICE

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 C. Pappas SR STAFF PERMIT ENGINEER 2/8/97
 Signed (Name - Position - Date)

Subscribed and sworn to before me this 8 day of FEB, 1997.

My Commission Expires: 3-7, 1998
 Notary Public JOHN C. PAPPAS
 STATE OF UTAH
 COUNTY OF CARBON


JOHN C. PAPPAS
 NOTARY PUBLIC • STATE OF UTAH
 1848 EAST CASTLE CIRCLE
 PRICE, UTAH 84601
 COMM. EXP. 3-7-98

RECEIVED
 Received by Off. Gas & Mining
 FEB 11 1997
 DIVISION OF OIL
 GAS & MINING PRICE UTAH

ASSIGNED PERMIT CHANGE NUMBER

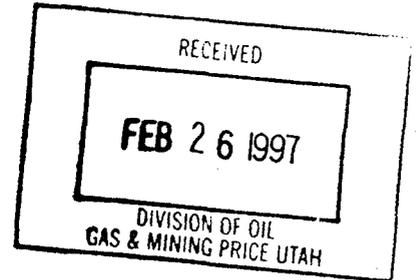


**CYPRUS PLATEAU
MINING CORPORATION**
A Cyprus Amax Company

Cyprus Plateau Mining Corporation
Post Office Drawer PMC
Price, Utah 84501
(801) 637-2875

February 24, 1997

Mr. Pete Hess
Utah Department of Natural Resources
Division of Oil, Gas and Mining
451 East 400 North
CEU Box 169
Price, Utah 84501-2699



Dear M. Hess,

RE: WILLOW CREEK PERMIT CHANGE ACT/007038-97C

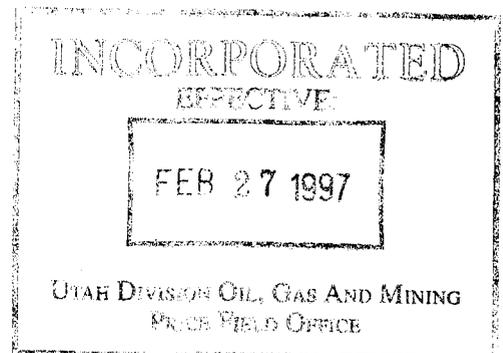
Enclosed are responses to your letter of February 13, 1997. I trust that this responds adequately. Five copies are included.

If you need anything further please let me know.

Respectfully,

Ben Grimes
Sr. Staff Project Engineer

File: WCENV 2.5.2.16.10.1
Chron: BG970209





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
 P.O. Box 145801
 Salt Lake City, Utah 84114-5801
 (801) 538-5340
 (801) 359-3940 (Fax)

Post-It Fax Note	7671	Date	2/13/97	# of pages	2
To	Ben Grimes	From	Pete Hess		
Co/Dept	Enrg.	Co.	PEO-DOGMA		
Phone #		Phone #			
Fax #		Fax #			

February 13, 1997

Ben Grimes, Senior Staff Project Engineer
 Cyprus Plateau Mining Corporation
 PO Drawer PMC
 Price, Utah 84501

RE: Letter of Deficiency, School House Canyon Refuse Pile Drainage Ditches CGD-6 and CGD-7, Willow Creek Preparation Plant, ACT/007/038-97C, Folder #2, Carbon County, Utah

Dear Mr: Grimes:

I have reviewed the above submittal, which has been designated as ACT/007/038-97C. There are several deficiencies which need to be addressed prior to approval. These are as follows:

- 1) although the original ditch designs come from the Castle Gate MRP, the new text and designs are now considered to be within the Willow Creek MRP. Hence, the numbering in the lower left hand corner on pages 3.4-7, 3.4-8, 3.4-73, and 3.4-74 should be changed to reflect 007/038.
- 2) the designs are not P.E. certified, as is required by R645-301-512.140 and R645-301-712.
- 3) the design/cross section on page 47 for CGD-7 (upper), CGRD-7 is computed from a "Final operation peak flow" quantity (100 year 6 hour) storms of 22.82cfs. I assume this quantity is the same for the "current operation peak flow", but I'm not a hydrologist. Page 49, which is the design for CGD-6 (upper), CGRD-8, is computed from a "current operation peak flow". If the flow quantities for the final operation and current operation phases for the pile are the same, then the designs should be the same. The wording should reflect "current operation design" for both ditches; otherwise, we're right back in the same nightmare that we're trying to clear up.

INCORPORATED
 FEB 27 1997
 UTAH DIVISION OIL, GAS AND MINING
 PRICE FIELD OFFICE

Page 2
B. Grimes
Deficiencies - 97C
February 13, 1997

- 4) Exhibit 3.4-2C, as referred to on page 3.4-8, shows the "Final Operational Drainage Pattern and Diversion Ditches, specifically CGD-6 and 7. A similar drawing showing the ditch locations should be shown for "current operations" of the pile. I think the drawing (or perhaps the text) should have a note to the effect that the "ditch locations will vary as determined by the equipment operator and the elevation of the pile, but will be as close as practicable to the Canyon's slopes. Short, straight ditches will be cut, rather than trying to maintain the serpentine configuration of the Canyon walls. Also, you may want to include text relating to how the ditches will be maintained during the topsoil removal process.

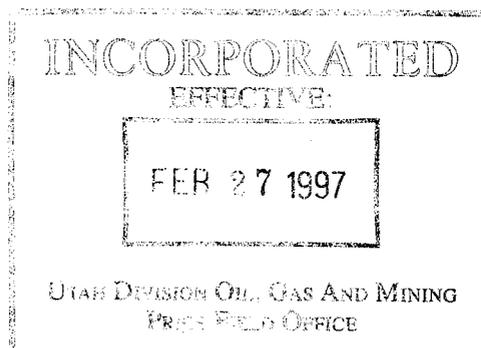
Thank you for your attention to these matters.

Sincerely,



Peter Hess
Reclamation Specialist III

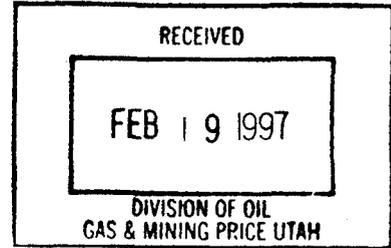
sd
cc: Joe Helfrich, DOGM, SLC





Applied Geotechnical Engineering Consultants, Inc.

February 7, 1997



Cyprus Plateau Mining Corporation
P.O. Drawer PMC
Price, Utah 84501

Attention: Ben Grimes
fax: 637-2247

Subject: Subsurface Exploration
School House Canyon Refuse Pile Stability
Willow Creek Mine Site
Price, Utah
Project No. 973006

Gentlemen:

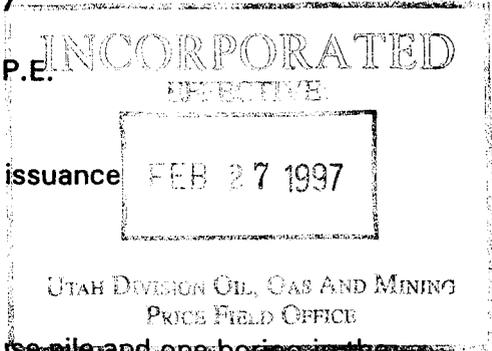
Applied Geotechnical Engineering Consultants, Inc. was requested by the Department of Natural Resources; Division of Oil, Gas and Mining, to provide information requested in R645-201-200 "Notice of Intention to Conduct Minor Coal Exploration". This information is being requested even though the exploration is not for coal. Our response to the questions listed are indicated below:

- 1. Applicant: Cyprus-Plateau Mining Corporation
- 2. Representative: Applied Geotechnical Engineering Consultants, Inc.
7109 South 185 West, Suite A
Midvale, Utah 84047
(801) 566-6399
James E. Nordquist, P.E.

- 3. Time Period:
Begin: Within one week of permit issuance
Duration: One to two weeks

- 4. Description of Method:

We proposed to drill two borings in the refuse pile and one boring in the dike, down slope from the refuse pile. Additional borings will be drilled in areas proposed for ponds.



February 7, 1997
Cyprus Plateau Mining Corporation
Page 2

The exploration will be conducted by using a CME 750 all-terrain drill. The auger used in drilling is approximately 8 inches in diameter with an interior hollow stem approximately 3½ inches in diameter.

As the auger is advanced, the cuttings are brought to the surface. Samples for testing are obtained by lowering a spoon sampler in the hollow portion of the auger and by either pushing or pounding the sampler into the material below the auger.

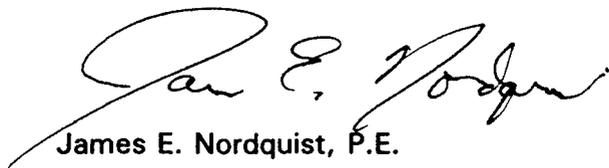
Once the desired depth has been reached, perforated pipe is lowered to the bottom of the hole through the hollow portion of the auger. The auger is then removed while leaving the pipe in the hole.

As the auger is being removed, we anticipate that the material will cave into the hole, filling the annular space between the pipe and the outside portion of the augured hole. If the hole is open after removing the auger, the hole will be filled with cuttings or sand. The ground surface around the exploration will be smoothed by hand.

If you have any further questions, please call.

Sincerely,

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.



James E. Nordquist, P.E.

JEN/cs

cc: Peter Hess (DOGM)
Marv Allen (HA&L)

