

TRACKING FORM

I. KEY FEATURES OF PERMITTEE'S AMENDMENT APPLICATION

Permittee Cyprus Plateau	Mine Name Willow Creek	Amendment # ACT/007/038-97A	Date Received / By whom 1-28-97 US Mail
Proposal: Refuse Pile Expansion + Thickener Pond Redesign			
Description: Geotechnical Drilling Project			

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 checked="" type="checkbox"/> No
	Outside of Disturbed Area	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

III. SUMMARY OF DOGM PROCESSING DATES

Reviews Completed		FOLLOWUP REQUIREMENTS		
Approved Effective	2/7/97	MRP "After Const" Documents	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Disapproved	N/A	TA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Mailed	2/14/97	CHIA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Filed MRP - SLO		Responds Within 15 days of Receipt? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain below.		

IV. COORDINATED REVIEWS

EXTERNAL AGENCIES <small>(Mine Specific)</small> <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	DH	<input checked="" 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

Received 1/28/97
Deficient 2/3/97 - Letter Sent Ben Grimes
2/7/97 Phone call to AGEC, Jim Nordquist requesting description of drilling process. Info received 2/7/97 @ 2:20 PM.
Approved 2-7-97.



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 7, 1997

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

RE: Geotechnical Drilling Project--Refuse Pile Redesign/Expansion and Thickener Pond Redesign Projects, Cyprus Plateau Mining, Willow Creek Mine, ACT/007/038-97A, Folder #3, Carbon County, Utah

Dear Mr. Grimes:

As you are aware, the aforementioned amendment has been designated as 97A.

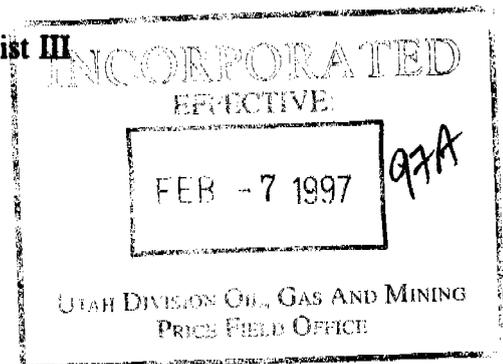
After discussing the original submittal with my superiors in Salt Lake, and after discussing the drilling process and obtaining additional information from Mr. Jim Nordquist, P. E., of Applied Geotechnical Engineering Consultants, Inc. I am approving 97A, effective February 7, 1997, as the requirements of R645-201-200 and R645-202 have been adequately addressed.

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
David Terry, SITLA, SLC, w/o enc
Joe Helfrich, DOGM, SLC



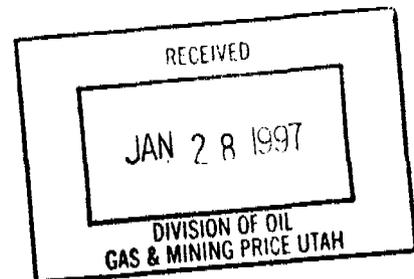


**CYPRUS PLATEAU
MINING CORPORATION**
A Cyprus Amax Company

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

January 25, 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 - GEOTECHNICAL DRILLING PROJECT -
REFUSE PILE EXPANSION AND THICKENER POND REDESIGN PROJECTS

Enclosed is a change form and information describing a proposed geotechnical drilling program for the subject projects.

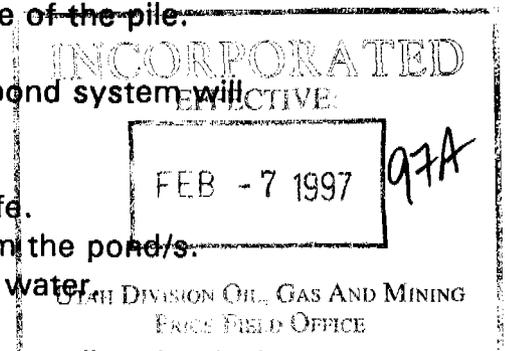
As discussed with you previously we are desirous of expanding the refuse pile and improving the functionality of the preparation plant thickener pond system. To accomplish these goals, we have contracted with a consulting firm to start the design process. A geotechnical firm has also been contracted to work with the consultant to investigate the foundation conditions of both areas.

We believe the redesign of the refuse pile will accomplish the following:

1. Improve stability of the pile.
2. Improve the reclamation potential of the pile by flattening out its face.
3. Increase refuse storage volume and extend the life of the pile.

We believe redesigning the preparation plant thickener pond system will accomplish the following:

1. Improve the functionality of the system.
2. Provide a system that is more environmentally safe.
3. Improve the ability to clean out the coal fines from the ponds.
4. Improve water handling and recirculation of plant water.



We will be meeting with the Division in the near future to outline the design parameters for both projects, and to discuss the permitting process. Proposed drill holes T97-1 through T97-3 are to investigate soil conditions for the thickener pond

system redesign. Drill holes R97-1 through R97-7 are to investigate soil conditions and refuse stability conditions for the refuse pile redesign and expansion. Drill holes R97-6 and R97-7 will be converted into ground water monitoring wells or piezometers to monitor internal water levels in the refuse pile.

Enclose are copies of the proposals for design and geotechnical drilling.

After completion of the designs, permit changes will be submitted to the Division for construction of the projects. This change is only for geotechnical investigations.

We are excited to start these projects and ask that you review this change as soon as possible.

Respectfully,

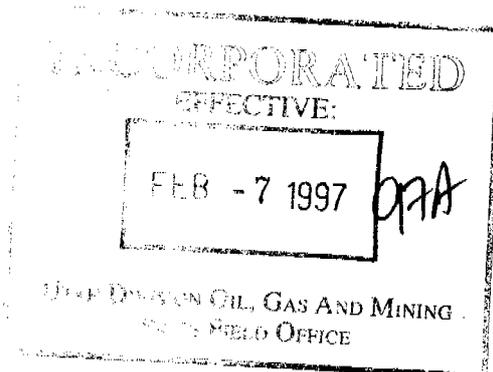


Ben Grimes
Sr. Staff Project Engineer

Enclosures

C: Paul Baker
J. Pappas

File: WCENV 2.5.2.19.4
WCENG 5.1.1
Chron: BG970113



APPLICATION FOR PERMIT CHANGE

Title of Change:

Geotechnical drilling project for refuse pile and thickener pond expansion.

Permit Number: ACT/007/038

Mine: Willow Creek Mine

Permittee: Cyprus Plateau Mining Corp.

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

The thickener pond system at the preparation plant is not adequate to handle coal fines and water recirculation. Reconstruction of the refuse pile will benefit the environment, make the pile more stable, and extend the life of the pile. This change is for geotechnical investigation of foundation conditions to support engineering designs for both projects. After redesign and approval of the designs permit changes will be submitted to accomplish the actual construction projects.

- | | | |
|------------------------------|--|--|
| <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 type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 14. Does permit change require or include soil removal, storage or placement? |
| <input type="checkbox"/> Yes | <input checked="" 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 type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 17. Does permit change require or include water monitoring, sediment or drainage control measures? |
| <input type="checkbox"/> Yes | <input checked="" 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? |

INCORPORATED

EFFECTIVE:

FEB - 7 1997

UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

Attach 2 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.

Signed - John C. Pappas / Sr. Staff Proj. Eng. / 1/27/97
Signed - Name - Position - Date

Subscribed and sworn to before me this 27 day of JAN, 1997.
John C. Pappas
Notary Public

My Commission Expires: 3-7 1998
STATE OF
 COUNTY OF CARBON

JOHN C. PAPPAS
 NOTARY PUBLIC • STATE of UTAH
 1646 EAST CASTLE CIRCLE
 PRICE, UTAH 84601
 COMM. EXP. 3-7-98

RECEIVED

Received by Oil, Gas & Mining

JAN 28 1997

DIVISION OF OIL
GAS & MINING PRICE FIELD OFFICE

ASSIGNED PERMIT CHANGE NUMBER

998



SALT LAKE AREA OFFICE
6771 South 900 East
Midvale, Utah 84047
Phone: (801) 566-5599

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

January 20, 1997

Re: Proposal for Engineering Services
Redesign of Refuse Pile in School House Canyon

Dear Ben:

We appreciate the opportunity of providing a proposal to Cyprus Plateau Mining Company (CPMC) to assist CPMC in redesigning the refuse pile in School House Canyon associated with the Willow Creek Mine. Our proposal is organized to address our understanding of the project, our proposed scope of services, and our estimated fee for accomplishing the scope of services.

Our scope of services and estimated fee are based on what we anticipate may be required to provide a new layout for the refuse pile, design the associated sedimentation control facilities (sedimentation ponds), prepare a reclamation plan, and summarize the results in a Design Engineering Report.

UNDERSTANDING OF THE PROJECT

CPMC currently operates a refuse pile in School House Canyon for the Willow Creek Mine. CPMC has recognized that the current layout of the refuse pile is limited in size and is creating slopes that are too steep to facilitate future reclamation of the refuse pile. Flattening and benching the slopes of the refuse pile will provide additional storage volume and will make future reclamation of the refuse pile much more practical. However, flattening the slopes of the reclamation pile will require redesign of the roadway which crosses the refuse pile, design of a new roadway to access the lower end of the refuse pile, and the redesign of the sediment control facilities for the refuse pile area. Sediment control is currently accomplished using a single sedimentation pond which will be covered by the redesigned refuse pile. Due to the limited areas which will be available for new ponds, two smaller sedimentation ponds may be required to replace the existing sedimentation pond.

Layout of the refuse pile must consider 1) Geotechnical stability, 2) Relocation of sediment control facilities, 3) Requirements for roadways through the refuse pile area, 4) Operating conditions, and 5) Future reclamation of the refuse pile area. Geotechnical analysis of the refuse pile will be performed by Applied Geotechnical Engineering Consultants and the results will be summarized by HA&L in the Design Engineering Report.

INCORPORATED
FEB - 7 1997
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

WORK PLAN

Our proposed work plan in assisting CPMC in the redesign of the refuse pile is as follows:

Task 100 - Establish Design Criteria for the Refuse Pile

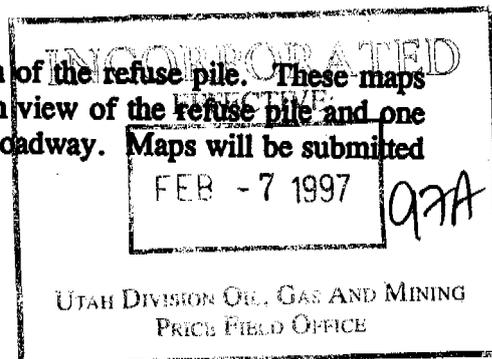
1. Meet with CPMC, DOGM, and MSHA to discuss and establish acceptable guidelines upon which the redesign of the refuse pile will be based. The refuse pile redesign must be based on operating conditions and reclamation criteria that is acceptable to DOGM, MSHA, and CPMC. We understand that during operation of the refuse pile CPMC must maintain access to both the upper and lower ends of the refuse pile. Therefore, the redesign must also include the replacing the existing roadway which provides access to the top of the refuse pile and a new roadway which will provide access to the lower end of the refuse pile. Design criteria that is needed from CPMC for the roadways includes: the maximum grade, cross slope, roadway width, berm height, and minimum turning radius.

Task 200 - Geotechnical Services

1. Attached is a proposal from AGECEC which defines the scope of services for the geotechnical analysis. We have assumed that the geotechnical services will be provided under a separate contract. We will summarize the results of AGECEC's geotechnical analysis in the Design Engineering Report.

Task 300 - Redesign the Refuse Pile and Roadways

1. Using an existing topographic map of the refuse pile provided by CPMC, prepare a base map for the refuse pile design.
2. Based on the guidelines established in Task 100, prepare a preliminary design and layout of the refuse pile and roadways. We have assumed that the ditch which intercepts undisturbed runoff above the refuse pile defines the maximum extent of the refuse pile.
3. Calculate the volume of refuse needed to fill the refuse pile to the new proposed layout. Cross sections will be generated to calculate quantities by the average end method. This work item will not be performed until the preliminary design and layout is approved by CPMC.
4. Prepare maps illustrating the proposed redesign of the refuse pile. These maps are to consist of one (1) sheet showing the plan view of the refuse pile and one (1) sheet showing details of the refuse pile and roadway. Maps will be submitted to CPMC for review and comment.

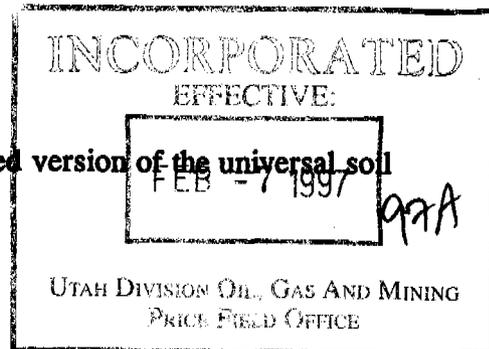


Task 400 - Sediment Control Measures

1. Determine the hydrologic characteristics of the areas which will be tributary to the sedimentation ponds. The hydrologic characteristics include the SCS Curve Number and the time of concentration and are based upon soil types, vegetation types, slopes, and layout of the runoff collection system.
2. Evaluate sediment yield based on a modified version of the universal soil loss equation.
3. Prepare a HEC 1 model of the refuse pile area to compute runoff hydrographs and runoff volume. Input to the HEC 1 model will include watershed characteristics, design rainfall events, and runoff routing.
4. Using the HEC 1 model and design criteria established by CPMC and DOGM, design ditches to collect and convey runoff from the refuse pile area including the roadway. The design of the ditches will include erosion protection as needed. The ditch designs will be adequate for final reclamation.
5. Using the HEC 1 model and design criteria established by CPMC and DOGM, design sedimentation ponds to detain runoff and collect sediment from the refuse pile area. These ponds will replace the existing sedimentation pond that is expected to be covered by the redesigned refuse pile. The number of sedimentation ponds that are necessary will depend upon the final layout of the refuse pile. Our estimated fee is based on the design and layout of two (2) new sedimentation ponds. If only one (1) pond is required, then the actual costs will be less.
6. Calculate the stage-capacity and stage-discharge relationships for each sedimentation pond. Demonstrate that the sedimentation ponds will provide 24-hour detention based on the inflow and outflow hydrographs calculated with the HEC 1 model. The stage-capacity and stage-discharge relationship for the sedimentation ponds will be used as input into the HEC 1 model to calculate the outflow hydrographs.
7. Prepare maps illustrating the proposed design of the sedimentation ponds. These maps are to consist of 1 sheet for each pond. Each sheet will show a plan view of the sedimentation pond and necessary design details such as outlets and emergency spillways.

Task 500 - Reclamation Plan

1. Evaluate natural sediment yield based on a modified version of the universal soil loss equation.



2. Develop an erosion/sediment control plan for reclamation conditions based on limiting sediment concentrations in effluent from erosion control measures to historical sediment yields. This plan will describe the reclamation methodology and procedures. This plan will also provide a discussion of BTCA associated with erosion/sediment control.
3. Prepare maps illustrating typical design details for the erosion/sediment control measures associated with the refuse pile, reclaimed road cuts, and pad out slopes. Specific locations of proposed sediment control measures for reclaimed road cuts and pad out slopes are not proposed to be located on these maps. We have assumed that the typical design details and erosion/sediment control measures associated with the reclamation plan can be shown on two sheets.

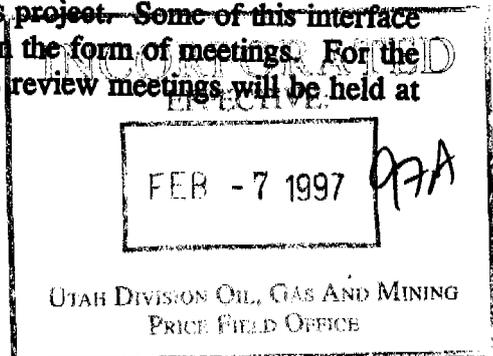
Task 600 - Design Engineering Report

1. Prepare a draft copy of the Design Engineering Report. We anticipate that this report will contain the following major sections: 1) Refuse Pile Design, 2) Sediment Control Measures, and 3) Reclamation Plan. This report will present the design criteria, methodology, maps and design drawings, and will summarize the results of the geotechnical evaluation.
2. Finalize the Design Engineering Report after review and comments by CPMC.

Task 700 - Contract Bidding Documents, Technical Specifications, and Construction Quantities for the Sediment Control Ponds

1. Define construction quantities to be included in the contract bidding documents.
2. Prepare contract documents and technical specifications.
3. Submit a draft of the contract bidding documents and technical specifications to CPMC for review and comment.
4. Finalize the contract bidding documents and technical specifications and provide ten copies of the final documents to CPMC.

Please note, that not all anticipated communications with CPMC personnel have been identified in the above work plan. We anticipate significant interface with CPMC personnel in obtaining information and your input in order to accomplish this project. ~~Some of this interface may occur in the form of telephone communications and other in the form of meetings. For the purpose of estimating costs, we have assumed that two progress review meetings will be held at our office during the completion of Task 400 and Task 500.~~



ESTIMATED FEE

Our estimated fee to accomplish the tasks as outlined above is presented by task in the following table. We propose that our contract be on a unit price basis with a not-to-exceed contract amount without prior approval from CPMC. Our fees would be determined based on the attached fee schedule.

TASK	ESTIMATED FEE
Task 100 - Establish Design Criteria for the Refuse Pile	
Task 200 A - Geotechnical Services - Refuse Pile	
Task 200 B - Geotechnical Services - Monitoring Wells	
Task 300 - Redesign the Refuse Pile and Roadways	
Task 400 - Sediment Control Measures	
Task 500 - Reclamation Plan	
Task 600 - Design Engineering Report	
Task 700 - Contract and Bidding Documents (Sediment Pond)	
Total Estimated Fee	

* The \$ 2,000 estimated fee for the monitoring wells is for 2½" dia. welded pipe. If the monitoring wells are constructed with 2" dia. threaded pipe, the estimated fee is \$ 1,400 for this item.

We have made the following assumptions in the preparation of this fee estimate:

1. Our fee estimate covers only the scope of services outlined herein.
2. The existing mapping will be adequate and no additional surveying will be required to complete this project.
3. We have assumed that the meeting with MSHA can be conducted by telephone. Our estimated fee does not include a trip to meet with MSHA in Price.
4. Costs of responding to comments by regulating agencies have not been assumed. We can provide to CPMC an estimated fee in responding to any comments once the comments have been received and the scope of services can be defined.

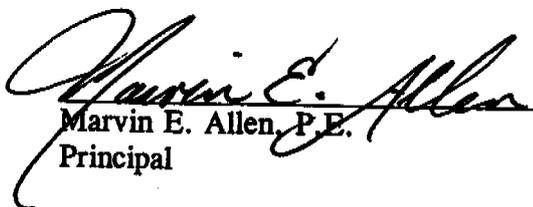
UNCORRECTED
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 PRICE FIELD OFFICE

5. The geotechnical evaluation and construction of the monitoring wells to be performed by AGEK will be under direct contract with CPMC.
6. Two new sedimentation ponds will be adequate to replace the existing sedimentation pond. We have also assumed that the pond volumes will be less than 20 acre-feet and the embankments will be less than 20 feet high, as measured from the upstream toe. Therefore, ponds will not need to meet the more stringent MSHA requirements.
7. Our proposal and scope of services is up through the preparation of the contract and bidding documents, but does not include either services during contract bidding or services during construction. If desired, we can provide CPMC with an estimated fee for services during contract bidding and construction of the sedimentation ponds.
8. We have assumed a maximum of six design drawings will be required, including the following:
 - a. Refuse Pile and Roadway Layout - Plan View
 - b. Refuse Pile Details - Refuse Pile Sections, Roadway Sections, and Runoff Collection Ditch Details
 - c. Sedimentation Pond #1 - Plan View, Sections the Pond, Pond Details, and the calculated Stage-Capacity Curve
 - d. Sedimentation Pond #2 - Plan View, Sections the Pond, Pond Details, and the calculated Stage-Capacity Curve
 - e. Reclamation Layout - Plan View
 - f. Reclamation Details

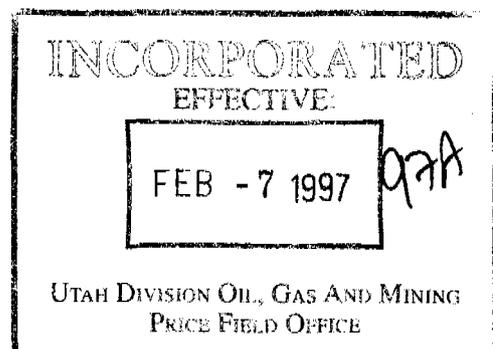
Again, we appreciate the opportunity of submitting this proposal to you. Attached please find two copies of our "Engineering Services Agreement". You can indicate your acceptance of our proposal by signing both copies, and returning one copy to our office. Please note that this letter will serve as Exhibit A to the agreement. We look forward to working with you on this project. Please call if you have any questions.

Sincerely,

HANSEN, ALLEN & LUCE, INC.


Marvin E. Allen, P.E.
Principal

attachments



Mr. Ben Grimes
Cyprus Plateau Mining Company
P.O. Drawer PMC
Price, Utah 84501

January 17, 1997

Re: Proposal for Engineering Services
Design of Thickener Treatment Ponds
Willow Creek Mine

Dear Ben:

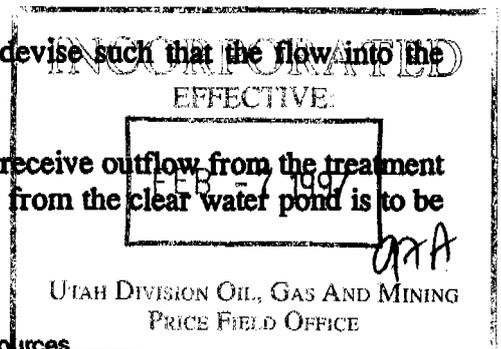
Hansen, Allen & Luce, Inc. (HA&L) appreciates the opportunity of responding to your request for assistance in design of the Thickener Treatment Ponds associated with the Willow Creek Mine. Our proposal is organized to address our understanding of the project, our proposed scope of services, and our estimated fee for accomplishing the scope of services.

UNDERSTANDING OF THE PROJECT

Cyprus Plateau Mining Company (CPMC) is currently operating a coal preparation plant associated with the Willow Creek Mine. The preparation plant includes a thickener treatment tank, the outflow of which is directed into a thickener treatment pond for removal of suspended sediments. The outflow from the treatment pond is then recycled back to the preparation plant. Makeup water for this process is obtained from the Price River which is diverted into a raw water pond located to the north of the coal preparation plant or directly by pipeline from the river.

CPMC is desirous of redesigning the current treatment pond to provide a pond system similar to that previously designed by Hansen, Allen & Luce at your Star Point Mine. This pond system is to include the following:

1. Two separate ponds, probably separated by a concrete wall due to space limitations. The ponds are to have a concrete ramp and floor to provide access and to facilitate cleaning of the ponds of settled sediments. The purpose for two separate ponds is so that one pond can be in service while the other pond is being cleaned.
2. The design is to include some sort of "splitter" device such that the flow into the ponds can be directed into one pond or the other.
3. The design will also include a clear water pond to receive outflow from the treatment ponds after sediments have been removed. Water from the clear water pond is to be



pumped back (recycled) into either the facility or into the raw water pond. Thus, the design will include a simple pumping facility and return pipeline to the facility and raw water pond.

WORK PLAN

Our proposed work plan in assisting CPMC in the design of the thickener treatment ponds is as follows:

Task 100 - Data Collection

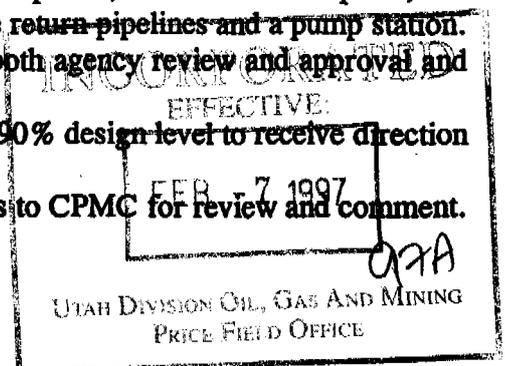
1. Obtain required data from CPMC and other sources in order to accomplish the required design. Such data needs include:
 - a. Climatic data for the facility (precipitation and evaporation).
 - b. Characteristics (quantity and quality, including TDS and suspended solids) of the makeup water and the outflow from the thickener tanks (i.e. inflow in the thickener treatment ponds).
 - c. Results from flocculent tests on inflowing water into the ponds.
 - d. Characteristics of natural waters, including storm runoff water, in the area.

Task 200 - Engineering Design Calculations

1. Prepare engineering design calculations including the following:
 - a. Pond efficiency calculations.
 - b. System water budget calculations, including quantity and quality (i.e. TDS).
 - c. Hydraulic design calculations associated with the inflowing (gravity) piping system.
 - d. Hydraulic design calculations associated with the pressure return pipeline.
 - e. Pipeline design calculations for overflow pipes from the treatment pond to the clear water pond.
 - f. Runoff control calculations.
 - g. Structural evaluation of concrete separating wall between the two thickener treatment ponds.

Task 300 - Layout and Design of Ponds and Related Facilities

1. Layout the design associated with the treatment ponds, the clear water pond, the inflowing pipeline, the outflowing pipelines, the return pipelines and a pump station.
2. Prepare design drawings of these facilities for both agency review and approval and for construction purposes.
3. Meet with CPMC at the 10%, the 50% and the 90% design level to receive direction and input into the design of the facilities.
4. Submit a draft of the design details and drawings to CPMC for review and comment.



Mr. Ben Grimes
January 17, 1997
Page 3

5. Based on comments received from CPMC, finalize the design drawings.

Task 400 - Engineering Design Report

1. Prepare an engineering design report that summarizes the design of the facilities, which can be submitted to the regulatory agencies for review and approval. We anticipate that the report will be similar to that provided for the ponds at the Star Point Mine, and will contain the following major sections: Introduction, Existing Site Conditions, Design Characteristics and Construction Criteria, Runoff Control Plan, Quality Control During Construction, Monitoring, Disposal of Settleable Solids, and Operation Plan for the Ponds.
2. Prepare figures, including a vicinity map, a figure illustrating variation in TDS over time in ponds based on water budget calculations, and a figure illustrating the tributary areas assumed in the runoff control plan.
3. Submit a draft of the engineering design report to CPMC for review and comment.
4. Finalize the engineering design report and submit six copies to CPMC.

Task 500 - Contract Bidding Documents, Technical Specifications, and Construction Quantities

1. Define construction quantities to be included in the contract bidding documents.
2. Prepare contract bidding documents and technical specifications.
3. Submit a draft of the contract bidding documents and technical specifications to CPMC for review and comment.
4. Finalize the contract bidding documents and technical specifications and provide ten copies of the final documents to CPMC.

Task 600 - Geotechnical

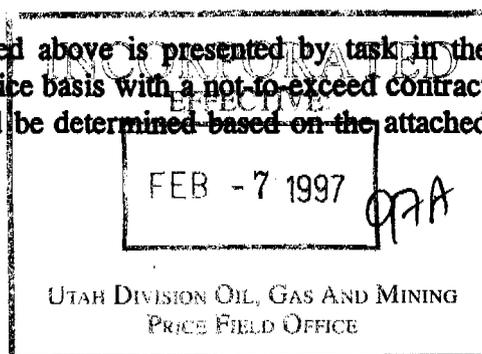
Attached is a proposal from Applied Geotechnical Engineering Consultants (AGEC) which outlines their proposed services associated with this project.

Task 700 - Electrical and Instrumentation

We have not as yet defined the level of electrical work and instrumentation that you would like to include in this project. Therefore, we need your input to more fully define the scope of services and therefore fee estimate for this task.

ESTIMATED FEE

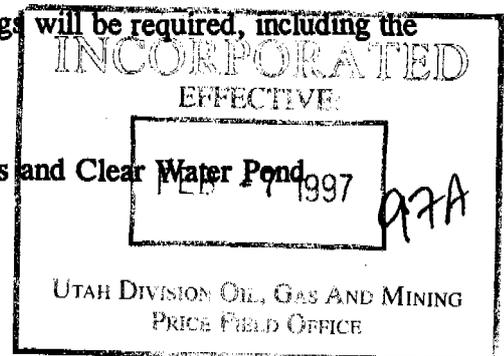
Our estimated fee to accomplish the tasks as outlined above is presented by task in the following table. We propose that our contract be on a unit price basis with a not-to-exceed contract amount without prior approval from CPMC. Our fees would be determined based on the attached fee schedule.



TASK	ESTIMATED FEE
Task 100 - Data Collection	
Task 200 - Engineering Design Calculations	
Task 300 - Layout and Design of Ponds and Related Facilities	
Task 400 - Engineering Design Report	
Task 500 - Contract Bidding Documents, Technical Specifications & Construction Quantities	
Task 600 - Geotechnical (by AGECE)	
Task 700 - Electrical & Instrumentation	
TOTAL ESTIMATED FEE (without Electrical & Instrumentation)	

We have made the following assumptions in the preparation of our fee estimate:

1. Our fee estimate covers only the scope of services as outlined herein.
2. The existing mapping will be adequate and no additional surveying will be required in order to complete this project.
3. Costs for responding to regulatory agency comments have not been assumed. We can provide to CPMC an estimated fee in responding to any comments once the comments have been received and the scope of services can be defined.
4. The geotechnical evaluation to be performed by AGECE will be under direct contract with CPMC.
5. Because you are frequently in Salt Lake City and in order to save project costs, we have assumed that design and review meetings will be held at the office of HA&L. Thus, we have not assumed any additional trips to the project site in our fee estimate.
6. We have assumed a maximum of six copies of the Design Engineering Report and a maximum of ten copies of the Contract and Bidding Documents will be provided to CPMC.
7. Our proposal and scope of services is up through the preparation of the contract and bidding documents, but does not include either services during bidding or services during construction.
8. We have assumed a maximum of ten design drawings will be required, including the following:
 - a. Cover Sheet
 - b. Site Plan Drawing
 - c. Plan View Drawing of the Treatment Ponds and Clear Water Pond
 - d. Sections through Ponds and Pond Details



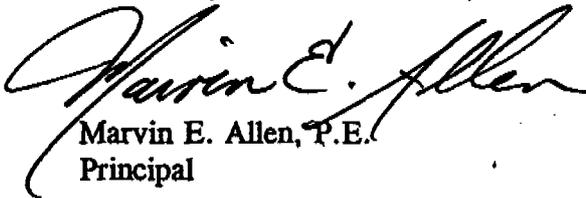
Mr. Ben Grimes
January 17, 1997
Page 5

- e. Plan & Profile Drawing of Return Pipeline from Clear Water Pond to the Facility and Raw Water Pond.
- f. Plan & Profile of Inflowing and Outflowing Pipelines to and from Treatment Ponds
- g. Details Drawing (Overflow outlets, miscellaneous concrete structures, separating wall between ponds)
- h. Details Drawing (Diversion manhole, trench section, thrust blocks, ditches)
- i. Pump Station Drawing
- j. Electrical Drawing

Again, we appreciate the opportunity of submitting this proposal to you. Attached please find two copies of our "Engineering Services Agreement". You can indicate your acceptance of our proposal by signing both copies, and returning one copy to our office. Please note that this letter will serve as Exhibit A to the Agreement. We look forward to the opportunity of working with you on this project. Please call if you have any questions.

Sincerely,

HANSEN, ALLEN & LUCE, INC.


Marvin E. Allen, P.E.
Principal

attachments

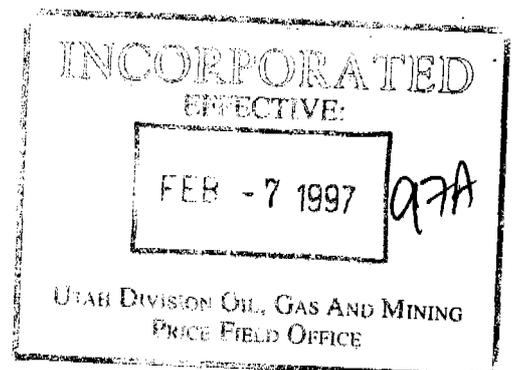


EXHIBIT B - SCOPE OF SERVICES

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

Based on the anticipated subsurface conditions and the proposed construction, we propose the following Scope of Work.

1. Field Investigation

Our field investigation will be described for each facility. Each of the areas of investigation are indicated below.

Refuse Pile

Drill 2 borings within the existing refuse pile. We anticipate drilling one boring up to a depth of 100 feet on the upper end of the pond where we can drill through the refuse down to the underlying natural materials. A second boring would also be drilled on the front face of the refuse pile, also drilling up to a depth of 100 feet, in order to obtain samples of the refuse, along with extending down to the natural soils.

One boring would be drilled in the center of the existing runoff control pond embankment. We anticipate that this boring would be drilled up to a depth of 100 feet in order to obtain information on the embankment materials, and also extending down to the natural soils.

We do not plan to drill into bedrock which may be encountered at each location.

Samples of the natural soil on the side slopes will be obtained.

Runoff Control Pond

Two areas are being considered for the runoff control pond. Two borings would be drilled at each location to depths ranging from 30 to 40 feet.

Thickener Drain Pond

Three borings would be drilled in the area proposed for the thickener drain pond expansion. The three borings would be drilled to provide indication on the subsurface profile for the pond.

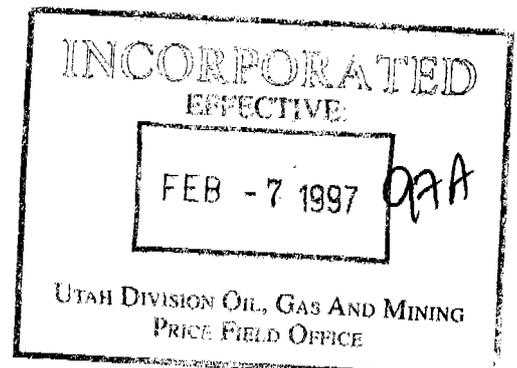
Two samples of the material which has accumulated in the thickener drain pond will be obtained for laboratory testing.

Each of the borings will be drilled to observe the subsurface profile, to obtain samples for laboratory testing and to measure the depth to groundwater. The borings drilled in the refuse pile and in the runoff control pond embankment will receive slotted pipe to facilitate future measurement of the water level. The type of pipe to be used is to be determined, based on the type most desirable for Plateau Mining Company.

2. Laboratory Testing

Conduct a laboratory testing program to help define the following characteristics of the subsurface materials.

- Classification
- Moisture Content
- Dry Density
- Consolidation
- Strength
- Permeability
- Moisture/Density Relationship



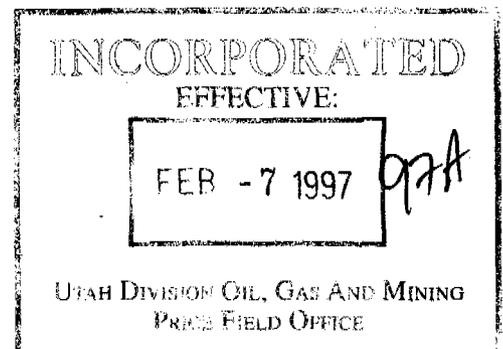
3. Engineering Analysis

Analyze the results of the field and laboratory investigations to determine the following items:

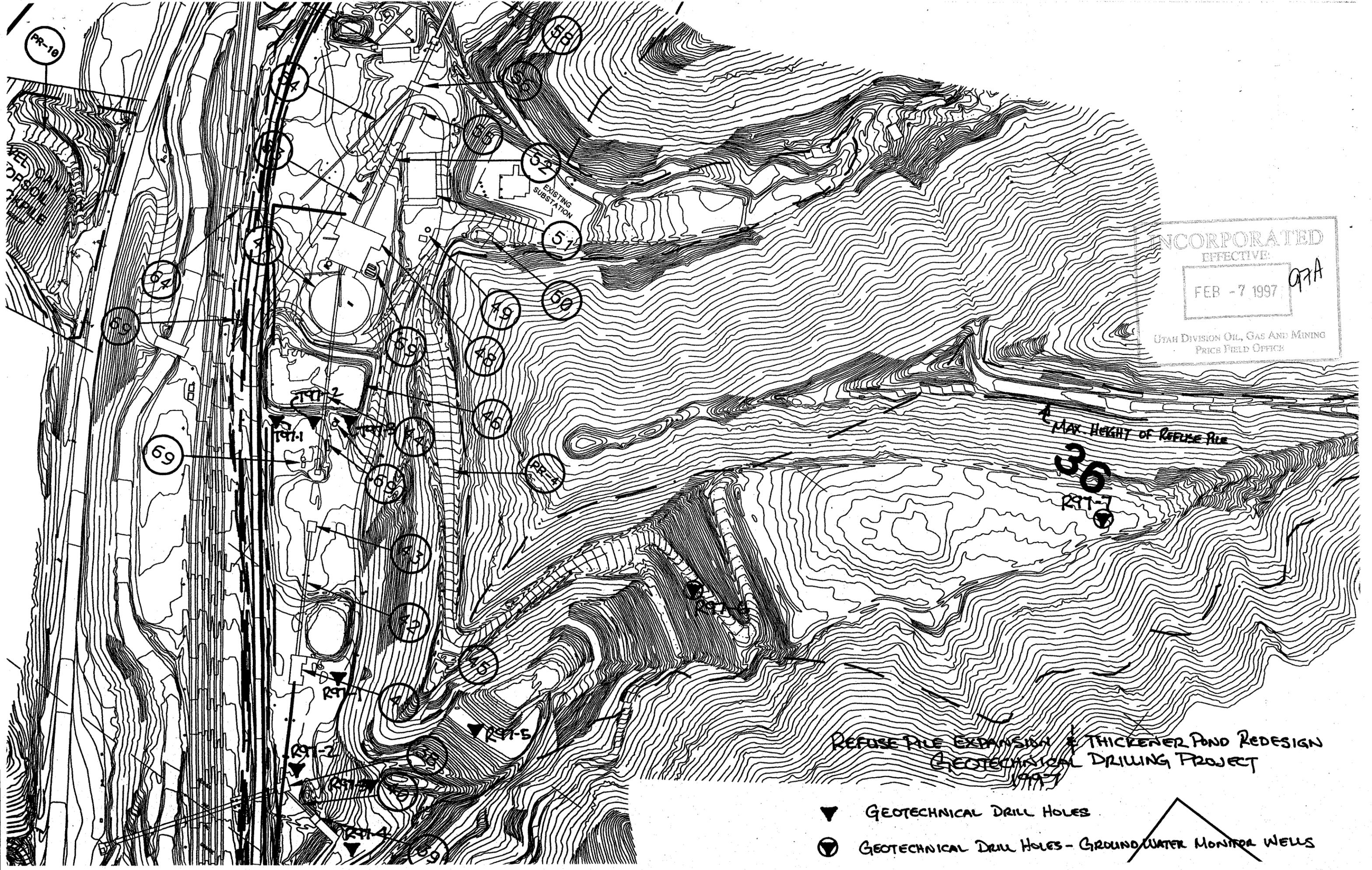
- Characterize the subsurface materials.
- Determine the strength and drainage characteristics of the existing refuse material.
- Determine the strength and drainage characteristics of the natural soils.
- Evaluate the stability of the refuse pile in the proposed configuration. Determine alternatives that would minimize the monitoring requirements of the refuse that is placed and the water levels within the refuse pile.
- Provide recommendations for design of the new runoff control pond. This will include evaluation and recommendations for any reconstruction of the existing fill materials.
- Drainage considerations.
- Seismic characteristics and consideration for the embankments and refuse pile.
- Suitability of the on site materials for use in embankments fills and also potentially as lower permeable soil layers.
- Recommendations for import fill.
- Fill compaction criteria.
- Refuse placement criteria, if necessary to maintain stability.

4. Report

Prepare a report which summarizes the information obtained during the study and presents our conclusions and recommendations. The study will be conducted under the supervision of a registered professional engineer.



PR-10



INCORPORATED
EFFECTIVE:
FEB -7 1997 97A
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

REFUSE PILE EXPANSION & THICKENER POND REDESIGN
GEOTECHNICAL DRILLING PROJECT

- ▼ GEOTECHNICAL DRILL HOLES
- GEOTECHNICAL DRILL HOLES - GROUNDWATER MONITOR WELLS



Applied Geotechnical Engineering Consultants, Inc.

February 7, 1997

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

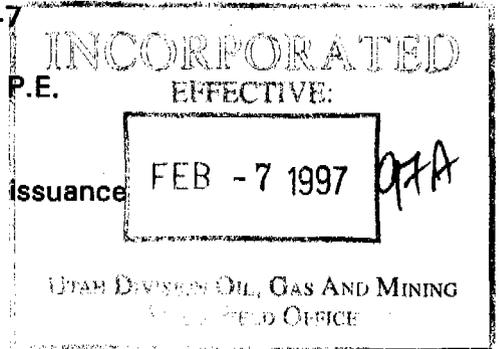
Attention: Ben Grimes
fax: 637-2247

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.

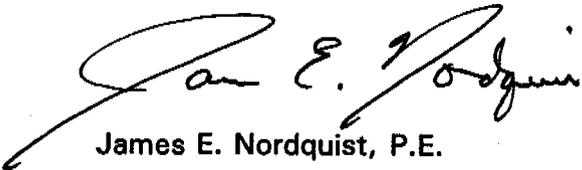
Once the desired depth has been reached, perforated pipe is lowered to the bottom of the hole through the hollow portion of the auger. The auger is then removed while leaving the pipe in the hole.

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,

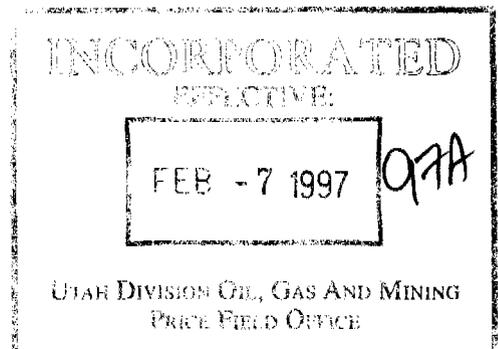
APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.



James E. Nordquist, P.E.

JEN/cs

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

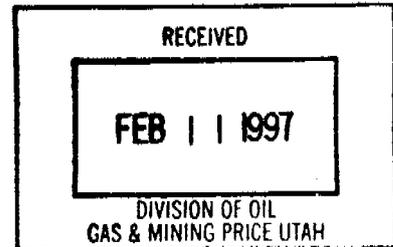




Cyprus Plateau Mining Corporation
Post Office Drawer PMC
Price, Utah 84501
(801) 637-2875

February 10, 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: ADDITIONAL COPIES OF SUBMITTALS - GEOTECHNICAL DRILLING AND RAILROAD CHANGES

Enclosed is an additional copy of the geotechnical drilling change application as you requested. Also enclosed is a copy of a letter from AGEC containing the information you requested directly from them. Since I do not know what you requested from AGEC I trust that the letter contains the information you desire.

On this date I am also sending an additional copy of the railroad change as you requested to Brandi Butcher at the UDOGM Salt Lake City office.

Respectfully,

A handwritten signature in cursive script, appearing to read 'Ben Grimes'.

Ben Grimes
Sr. Staff Project Engineer

Attachment

C: Brandi Butcher - DOGM SLC

File: WCENV 2.5.2.19.4
WCENV 2.5.2.12.5.1
Chron: BG970205



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

1594 West North Temple, Suite 1210

P.O. Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340

(801) 359-3940 (Fax)

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

February 7, 1997

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

RE: Geotechnical Drilling Project--Refuse Pile Redesign/Expansion and Thickener Pond Redesign Projects, Cyprus Plateau Mining, Willow Creek Mine, ACT/007/038-97A, Folder #3, Carbon County, Utah

Dear Mr. Grimes:

As you are aware, the aforementioned amendment has been designated as 97A.

After discussing the original submittal with my superiors in Salt Lake, and after discussing the drilling process and obtaining additional information from Mr. Jim Nordquist, P. E., of Applied Geotechnical Engineering Consultants, Inc. I am approving 97A, effective February 7, 1997, as the requirements of R645-201-200 and R645-202 have been adequately addressed.

Please submit one more copy of the finalized documents for dispersal to various government agencies. Thank you.

Sincerely,

Peter Hess

Reclamation Specialist III

sd

cc: Joe Helfrich, DOGM, SLC



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

Norman H. Bangerter
 Governor
 Dee C. Hansen
 Executive Director
 Dianne R. Nielson, Ph.D.
 Division Director

355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 84180-1203
 801-538-5340

TELEFAX ROUTING INSTRUCTIONS

FAX NUMBER (801) 637-8603

DATE: 2/7/97

TO: Jim Nordquist, P.E.
Applied Geotechnical Eng. Consultants

PHONE: 1(801) 566-6399

FROM: Peter Hess, DOGM

TOTAL NUMBER OF PAGES TO FOLLOW THIS ROUTING SHEET: 1

ADDITIONAL MESSAGES:
See message, page 2. Thank you.

IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL AS SOON AS POSSIBLE. OUR NUMBER IS (801) 637-5806. TO TELEFAX DOCUMENTS TO OUR OFFICE, CALL (801) 637-8603.

Jim -

Please address these items in
the discussion you will be sending
me - Thanks!

Peter Hess

R645-201-200. Notices of Intention to Conduct Minor Coal Exploration.

210. Notices of Intention to Conduct Minor Coal Exploration when 250 tons or less of coal will be removed will require Division review prior to conducting exploration except where exploration is planned to be conducted on lands designated unsuitable for surface coal mining operations under R645-103; exploration on these lands designated as unsuitable will be subject to the requirements of R645-201-300.

220. Notices of Intention to Conduct Minor Coal Exploration will include:

221. The name, address and telephone number of the applicant seeking to explore; *This will be Cyprus - Plateau*

222. The name, address and telephone number of the applicant's representative who will be present at, and responsible for conducting the exploration operations; *- This is you.*

223. A narrative and map describing the exploration area and indicating where exploration will occur; *- I have this.*

224. A statement of the period of intended exploration; and

225. A description of the method of exploration to be used, the amount of coal to be removed and the practices that will be followed to protect the area from adverse impacts of the exploration activities and to reclaim the area in accordance with the applicable requirements of R645-202.

*Need these
2
items*

*+
221 + 222*



Applied Geotechnical Engineering Consultants, Inc.

FAX COVER SHEET

DATE: February 7, 1997

TO: Peter Hess

AT: DOG M

FROM: James Nordquist OF

APPLIED GEOTECHNICAL ENGINEERING CONSULTANTS, INC.

NUMBER OF PAGES: 3 (INCLUDING COVER SHEET)

HARD COPY WILL FOLLOW

**IF YOU DO NOT RECEIVE ALL OF THESE PAGES OR HAVE ANY PROBLEMS,
PLEASE CALL AT (801) 566-6399.**

SPECIAL INSTRUCTIONS: _____

THANK YOU



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. 973008

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.

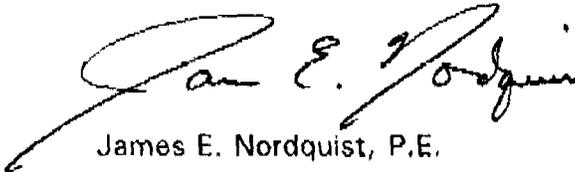
Once the desired depth has been reached, perforated pipe is lowered to the bottom of the hole through the hollow portion of the auger. The auger is then removed while leaving the pipe in the hole.

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)



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 3, 1997

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

RE: Geotechnical Drilling Project--Refuse Pile Expansion and Thickener Pond Redesign Projects, Cyprus Plateau Mining, Willow Creek Mine, ACT/007/038-97A, Folder #3, Carbon County, Utah

Dear Mr. Grimes:

The aforementioned amendment, as received on January 28, 1997, has been designated as 97A by the Price Field Office.

It is my opinion that the geotechnical investigation which is described for the refuse pile expansion project and the thickener overflow pond redesign falls within the definition of a minor "coal exploration", as the borings are to gather environmental data to establish the conditions of the area before beginning coal mining operations (i.e., the placement of refuse, and the construction of the piles associated sediment control structure(s)). It is the permittee's responsibility to adequately address the requirements of R645-200 through 203 for any exploration permit. This has not been done with 97A as received January 27, 1997. The removal of topsoil/vegetation from the R97-5 location has not been addressed. Neither has the revegetation of the area. The reclamation of the holes, with the exception of R97-6 and R97-7, (which are to remain as ground water monitoring holes) has not been addressed.

Please resubmit 97A after the requirements of the R645-200 and 203 regulations have been adequately addressed. Thank you.

Sincerely,

Peter Hess
Reclamation Specialist III

sd
cc: Joe Helfrich, Permit Supervisor



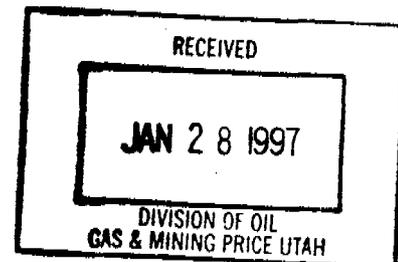


**CYPRUS PLATEAU
MINING CORPORATION**
A Cyprus Amax Company

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

January 25, 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



97A

Dear Mr. Hess,

RE: WILLOW CREEK PERMIT CHANGE - GEOTECHNICAL DRILLING PROJECT -
REFUSE PILE EXPANSION AND THICKENER POND REDESIGN PROJECTS

Enclosed is a change form and information describing a proposed geotechnical drilling program for the subject projects.

As discussed with you previously we are desirous of expanding the refuse pile and improving the functionality of the preparation plant thickener pond system. To accomplish these goals, we have contracted with a consulting firm to start the design process. A geotechnical firm has also been contracted to work with the consultant to investigate the foundation conditions of both areas.

We believe the redesign of the refuse pile will accomplish the following:

1. Improve stability of the pile.
2. Improve the reclamation potential of the pile by flattening out its face.
3. Increase refuse storage volume and extend the life of the pile.

We believe redesigning the preparation plant thickener pond system will accomplish the following:

1. Improve the functionality of the system.
2. Provide a system that is more environmentally safe.
3. Improve the ability to clean out the coal fines from the pond/s.
4. Improve water handling and recirculation of plant water.

We will be meeting with the Division in the near future to outline the design parameters for both projects, and to discuss the permitting process. Proposed drill holes T97-1 through T97-3 are to investigate soil conditions for the thickener pond

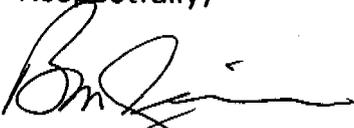
system redesign. Drill holes R97-1 through R97-7 are to investigate soil conditions and refuse stability conditions for the refuse pile redesign and expansion. Drill holes R97-6 and R97-7 will be converted into ground water monitoring wells or piezometers to monitor internal water levels in the refuse pile.

Enclose are copies of the proposals for design and geotechnical drilling.

After completion of the designs, permit changes will be submitted to the Division for construction of the projects. This change is only for geotechnical investigations.

We are excited to start these projects and ask that you review this change as soon as possible.

Respectfully,



Ben Grimes
Sr. Staff Project Engineer

Enclosures

C: Paul Baker
J. Pappas

File: WCENV 2.5.2.19.4
WCENG 5.1.1
Chron: BG970113

APPLICATION FOR PERMIT CHANGE

Title of Change:

Geotechnical drilling project for refuse pile and thickener pond expansion.

Permit Number: ACT/007/038

Mine: Willow Creek Mine

Permittee: Cyprus Plateau Mining Corp.

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

The thickener pond system at the preparation plant is not adequate to handle coal fines and water recirculation. Reconstruction of the refuse pile will benefit the environment, make the pile more stable, and extend the life of the pile. This change is for geotechnical investigation of foundation conditions to support engineering designs for both projects. After redesign and approval of the designs permit changes will be submitted to accomplish the actual construction projects.

<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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	14. Does permit change require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	17. Does permit change require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input checked="" 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?

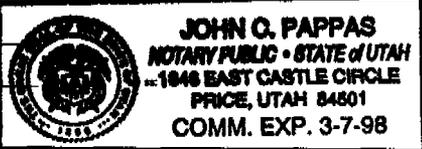
Attach 2 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

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.

Ben Grimes
Signed - Name - Position - Date
Ben Grimes Sr. Staff Proj. Eng. 1/29/97

Subscribed and sworn to before me this 27th day of JAN, 1997.

My Commission Expires: 3-7-98
Notary Public



STATE OF 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:

Geotechnical drilling project for refuse pile and thickener pond expansion.

Permit Number: ACT/007/006-038

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

ADD REPLACE REMOVE

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

No permit document changes are necessary for this change. This change form is provided to document the proposed geotechnical investigation.