

0063

File 007/007/006 # 2



# PLATEAU MINING COMPANY

A Subsidiary of Cyprus Coal Company  
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Telephone (801) 637-2875

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January 19, 1987

DIVISION OF  
OIL, GAS & MINING

Mr. John Whitehead  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: Permit Renewal, ICR Outstanding Issue - Acid-Forming  
Toxic-Forming or Alkalinity Producing Mine Waste

Dear Mr. Whitehead:

Enclosed please find a draft Scope of Work for resolving the above referenced issue. Please review this Scope of Work and give me your suggestions if you feel it should be revised to better address the issue.

Enclosed also is a map showing drill holes where core is available to be analyzed as outlined in Items 1 and 3 of the Scope of Work. I told Rick Smith this map would be coming. Please have him review these locations and let me know if he agrees or has suggestions.

Respectfully,

Ben Grimes  
Sr. Environmental Engineer

BG:sd

Enclosures

file: ENV 2-5-2-12  
Chrono: BG 870113

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**DIVISION OF  
OIL, GAS & MINING**

**SCOPE OF WORK**

**ACID-FORMING, TOXIC-FORMING AND ALKALINITY PRODUCING MATERIAL**

**Regulations & DOGM Initial Completeness Review Comments:**

**783.14, 783.25, 784.14, 784.19 & 817.71-.72**

1. Decide which drill holes to analyze core from, with DOGM's input:
  - A. Representative of seams to be mined
  - B. Bracket the areas to cover as much as possible.
2. Decide where to take samples of in-place refuse to evaluate acid-forming and toxic-forming characteristics:
  - A. Refuse that has been exposed to weather for the longest time possible.
  - B. Refuse that is recent
  - C. Refuse that is in-between A&B
  - D. Refuse buried for a long time to evaluate the difference between it and exposed (older) material.
3. Take samples:
  - A. Core - Roof & Floor
  - B. Refuse samples based on No. 2 above.
4. Laboratory analysis of samples
5. Evaluate sample data for acid-forming, toxic-forming and alkalinity producing potential, and refuse analysis for current acid-forming, toxic-forming and alkalinity content.
6. If data indicates roof and floor rock and/or the in-place refuse has the potential to be acidic, toxic or alkaline or is acidic, toxic or alkaline, then proceed to Step 7. If the data indicates no acidic, toxic or alkalinity problem, write report, presenting the data and analysis; address clay content issue and roof and floor sampling plan. Show old and new sample locations on map. Address ICR comments.
7. Decide whether to conduct infiltration tests.
  - A. Address ground water & surface water contamination.
    1. 17" of subsoil/topsoil mix
    2. 17" of subsoil only
    3. 48" of subsoil only

**Scope of Work: Acid-Forming, Toxic-Forming and Alkalinity Producing  
Material - Page Two.**

8. Calculate volume of waste rock for each seam to be mined:
  - A. This permit term & calculated dilution rate
  - B. Life of mine & calculate dilution rate
9. Formulate disposal plan of acidic, toxic or alkaline refuse.
  - A. Stability
  - B. Sealing or not
  - C. Where to place the material
10. Write report, presenting data and analysis, address clay content issue and roof and floor sampling plan. Show old and new refuse sample locations on map. Address ICR comments.

/sd

Chrono: BG 870106