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STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 2, 1982

Mr. Mel Coonrod
Environmental Coordinator
Plateau Mining Company
P.O. Box PMC
Price, Utah 84501

RE: Refuse Pile Test Plots
Plateau Mining Company
ACT/007/006
Carbon County, Utah

Dear Mel:

Please find the enclosed information regarding treatments and experimental design pursuant to the refuse pile test plots proposed by PMC to satisfy, in part, stipulation 9-22-3 and special stipulation #6.

Sincerely,

Thomas L. Portle

THOMAS L. PORTLE
RECLAMATION SOILS SPECIALIST

Enclosure

TLP/mn

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

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REFUSE PILE RECLAMATION
TEST PLOT PROJECT

Objective:

To determine the level of fertility amendments which when used in conjunction with the optimum combinations of topsoil and subsoil depths will meet the revegatation success standards required by law. This approach will be used to simultaneously evaluate the potential that excess soil substitute materials may be available on site to satisfy future reclamation needs elsewhere on the property. This determination will be related to the most economical usage of such materials for test plot reclamation.

Experimental Design: Split - Plot with four (4) replications

Plot Dimensions: 10 feet x 10 feet with 2 foot buffer strips

SPLIT - PLOT DESIGN

Blocks	1				2	3	Depth treatments 1-12 (Randomized) Fertility
	A	B	C	D			Amendments A-D (Randomized within every Depth Treatment)
I							
II							
III							
IV							

Downslope moisture and/or fertility gradient

DEPTH TREATMENTS

1) Straight refuse

2) Subsoil to a 5 inch depth

3) Subsoil to a 10 inch depth

4) Subsoil to a 20 inch depth

5) Topsoil to a 5 inch depth

6) Topsoil to a 10 inch depth

7) Topsoil to a 20 inch depth

8) Topsoil to a 5 inch depth over 5 inches of subsoil

*9) Topsoil to a 2 inch depth over 5 inches of subsoil

*10) Topsoil to a 2 inch depth over 10 inches of subsoil

*11) Topsoil to a 2 inch depth over 18 inches of subsoil

*12) Topsoil to a 5 inch depth over 15 inches of subsoil

*If the machinery employed is unable to distribute topsoil to a 2 inch layer, the minimum depth the machinery is capable of accurately distributing will be employed. It follows that in treatments 10 and 11 any excess of 2 inches should be subtracted from the subsoil portion so as not to exceed a 20 inch combination depth in any treatment.

Fertility Treatments:

A) 16-16-8 Fertilizer @200/AC.

B) 16-16-8 Fertilizer @100/AC.

C) Sewage sludge @200 tons/AC.

D) Control (no fertility amendments)