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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 23, 1986

Mr. Douglas C. Pearce
Mine Engineer
Kaiser Coal Corporation
P. O. Box "D"
Sunnyside, Utah 84534

Dear Mr. Pearce:

RE: Review of Proposed Relocation of Soil Borrow Area 1
and Pinyon-Juniper/Grass Reference Area, Sunnyside
Mines, ACT/007/007, #3, Carbon County, Utah

The Division has completed the review of the above referenced material. Attached are the technical review memos from Kathy Mutz and Dan Duce. Please respond to the deficiencies noted in Mr. Duce's memo.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads "John J. Whitehead".

John J. Whitehead
Permit Supervisor/
Reclamation Hydrologist

djh
Copy: Wayne Hedberg
Dan Duce
Kathy Mutz

0800R-32

May 21, 1986

TO: Files

FROM: Kathryn M. Mutz, Reclamation Biologist *KM*

RE: Relocation of Pinyon-Juniper/Grass Reference Area for Sunnyside Mines; Carbon County; Folder #3 ACT/007/007

On May 6, 1986 Kaiser Coal Company submitted a report characterizing and comparing the old and proposed P-J/Grass reference areas and describing the soils of both the reference areas and the expansion area of Borrow Area #1.

The new reference area is acceptable. The only deficiency in the report is a miscalculation of the adequacy of the cover sampling in the old reference area. It appears that 's', standard deviation, rather than 's²', variance, was used in the formula for this calculation. All other samples were adequate or met the minimum standards of the Division sampling guidelines. Because this problem relates to the old rather than the new reference area, I will not request any additional sampling.

cc: J. Whitehead
0528R-80



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June 16, 1986

TO; Files

FROM: Dan Duce, Reclamation ^{DD}
Soils Specialist

RE: Expansion of Soil Borrow Area for Sunnyside Mines,
Carbon County, Folder #3, ACT/007/007

Kaiser Coal Company submitted a report on May 6, 1986 to expand an existing borrow area. The additional material will be used for final reclamation of the coarse refuse, slurry pads and other surface area disturbance.

Deficiencies exist in the report (Appendix III(ii) for technical analysis of all material in the proposed expanded borrow area to be determined suitable for reclamation. Deficiencies in the report are as follows:

1. Current Division maps, Plate III-23 dated 9/25/85 does not show the proposed area to be expanded, as mentioned in the report. A map needs to be submitted which delineates the current borrow area and the area proposed for expansion.
2. Table 2 of the report determines the salvageable depth of the strych soil 3-8% slopes to be 157", and the strych 9-15% slope soil to be 131". Table 1 of the report presents chemical and physical data for these soils only to 60" depth. Chemical and physical data needs to be provided for all appropriate salvage depths for each soil. Data that needs to be addressed for all soil horizons or depth intervals include: pH, electrical conductivity, SAR, alkalinity, Boron, Selenium, saturation percentage, Textural class, water holding capacity and rock content,

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ACT/007/007
June 16, 1986

which includes fragments less than 3", 3-10", and greater than 10". Sampling sites need to be within the proposed expanded borrow area, and designated on the map showing the proposed area.

3. The report states that 15% of the stones and cobbles will be removed from these soils. A narrative needs to be submitted which addresses how these stones will be removed and how 15% of the stones removed will be quantified.

djh
Copy: John Whitehead
0835R-1