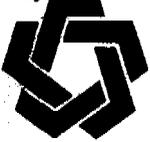


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STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

August 25, 1986

ACT/007/004

FEDERAL EXPRESS

Mr. Richard Allison
Project Engineer
Castle Gate Coal Company
P.O. Box 449
Helper, Utah 85426

Dear Mr. Allison:

Re: MRP Amendment, Modifications of Surface Facilities in
Hardscrabble Canyon, Price River Complex, Castle Gate Coal
Company, ACT/007/004-G, Folder #3, Carbon County, Utah

The Division has completed its review of Castle Gate Coal Company's May 21, 1986 submittal concerning proposed changes to surface facilities in Hardscrabble Canyon. The proposal is still inadequate in several areas. The following review comments identify the specific deficiencies which must be addressed before approval can be granted.

HYDROLOGY CONCERNS:

UMC 817.43-(1)-RPS

The operator must commit to submitting complete designs (including channel sizing and channel stability measures) for the portion of diversion D-7 in the vicinity of the proposed infiltration pond 30 days prior to construction of the pond. These designs must be based upon a 25 year -24 hour precipitation event. In the event the pond is not to be constructed, the proposed designs for a 10 year -24 hour design event must be implemented.

UMC 817.43-(2)-RPS

Division analysis indicates that a 33 inch CMP with an available headwall depth of 4.5 feet is required at location C-8. The operator may either accept these values and incorporate them into the proposal or provide clarification for the designs proposed in the May 6, 1986 submittal. Details of the Division's analysis will be provided at the operator's request.

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UMC 817.43-(3)-RPS

The operator must commit to installing the proposed filter blanket for Diversion D-7 prior to the placement of the riprap in the channel. If the condition of the excavated channel indicates a filter blanket is not required, justification (including calculations and particle size analysis) must be submitted to and approved by the Division prior to placement of the riprap.

UMC 817.43-(4)-RPS

The operator must submit revised designs for diversion D-8 that insure the stability of the channel. These designs must utilize a Manning's n-value that is reflective of the proposed construction.

UMC 817.47-(5)-RPS

Division analysis indicates that a riprap size of 26 inches is required for the construction of the energy dissipator for culvert C-7. The operator may either accept this value and incorporate it into the proposal or provide clarification for the design proposed in the May 6, 1986 submittal. Details of the Division's analysis will be provided at the operator's request.

SOILS CONCERNS:

General - JSL

The May 21, 1986, submittal detailing a response to the Divisions comments was reviewed relative to soil concerns. The operator has established that the Hardscrabble Canyon was previously disturbed and consequently has impacted the pedogenic processes to an extent such that an Order 1 soil survey is not warranted. However, to adequately delineate the disturbed soils a soil survey must be developed. The Division requires that the in situ material shall be analyzed to determine the potential reclamability. The following concern details the specific analysis required for this characterization. All analyzed data will be correlated with previously established information detailed in chapter VIII of the MRP. The Division also requests an update on the Soil Survey that was to be implemented in late September of 1984, as stated on pages 8-45, Vol. II of the MRP.

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UMC 817.21-.25-JSL

The operator's response (5/9/86, pg 32) indicates that no topsoil shall be redistributed at the time of final reclamation. In volume II of MRP, pg. 8-23 states that six (6) to twelve (12) inches of topsoil will be redistributed. Please clarify. A soil analysis must be completed to assess the potential use of the in situ materials as a substitute soil material. The operator shall establish a minimum of three (3) soil sample sites. Each site shall be sampled at the following three (3) depths: 0-3", 3-53", and 54-64" (where possible). The analysis must include, but not be limited to, texture (include percent gravels), available phosphorous, boron, electrical conductivity, acid-base potential, and pH.

Thank you for your patience and cooperation in this permitting matter. Should you have any questions or require additional information, please contact me or Rick Summers.

Sincerely,



D. Wayne Hedberg
Permit Supervisor/
Reclamation Hydrologist

DMW:djh
cc: L. Braxton
A. Klein
W. Hedberg
S. Linner
R. Summers
J. Leatherwood
D. Wham
0851R/31

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 Department/Floor/No.
 Street Address **#3 TRIAD STE 350**
 City **SALT LAKE CITY** State **UT**

To (Recipient's Name) **Richard Allison**
 Recipient's Phone Number (Very Important) **801 472-8661**
 Company **Castle Gate Coal Company**
 Department/Floor/No.
 Exact Street Address (Use of P.O. Boxes or P.O. *Zip Codes Will Delay Delivery And Result in Extra Charge.)
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