

0023



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
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

September 26, 1989

Mr. David Spillman  
Soldier Creek Coal Company  
P.O. Box I  
Price, Utah 84501

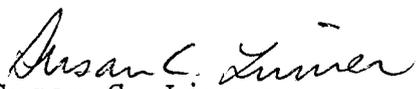
Dear Mr. Spillman:

Re: Deficiency, Amendment, New Surface Facilities, Soldier Creek  
Coal Company, Soldier Canyon Mine, ACT/007/018-89B, Folder #2,  
Carbon County, Utah

The Division has completed review of your company's submittal received September 18, 1989. The plans were reviewed by Mike DeWeese and Henry Sauer of the Division's technical staff. Soldier Creek may begin stripping and stockpiling of topsoil on the new facilities area. However, no other activities may take place until the deficiencies outlined in the attached technical review memos have been resolved.

If you have any questions, please call Mike DeWeese or me.

Sincerely,

  
Susan C. Linner  
Reclamation Biologist/  
Permit Supervisor

cl  
Attachments  
cc: J. Helfrich  
M. DeWeese  
BT45/316



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter

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

September 25, 1989

TO: Susan C. Linner, Permit Supervisor

FROM: Henry Sauer, Reclamation Soils Specialist 

RE New Surface Facilities, Soldier Creek Coal Company, Soldier Canyon Mine, ACT/007/018-89(B), Folder #2, Carbon County, Utah

## SYNOPSIS

The response to the Division's technical review has been submitted (September 18, 1989) and reviewed. One completeness issue regarding overburden and underburden exist.

## ANALYSIS

Analyses of the acid-base potential for overburden and underburden has been reported using standard units. However, an acid potential of 0.95 tons  $\text{CaCO}_3$ /1000 tons material and 0.88 Tons  $\text{CaCO}_3$ /1000 tons material respectively, equates to a % sulfur content of approximately 0.03% sulfur. These values are unusually low.

Neutralization potentials of 0.64 (overburden) and 0.71 tons  $\text{CaCO}_3$ /1000 tons material are also unusually low.

The Division believes that the above mentioned values of tons  $\text{CaCO}_3$ /1000 tons material are in fact % total sulfur and % $\text{CaCO}_3$ .

## RECOMMENDATIONS

The Division recommends that the New Surface Facilities Amendment be disapproved until such time that the applicant submits the following overburden and underburden data: sulfate-sulfur%, pyritic-sulfur%, organic-sulfur%, % $\text{CaCO}_3$ .

c1  
BT37/43



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
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

September 19, 1989

TO: Susan Linner, Permit Supervisor

FROM: Mike DeWeese, Reclamation Hydrologist 

RE: Stipulation Response, Amendment, New Surface Facilities,  
Soldier Creek Coal Company, Soldier Canyon Mine,  
ACT/007/018-89B, Folder #2, Carbon County, Utah

## SUMMARY:

The Division has reviewed the operator's response to conditional approval stipulations, received September 18, 1989. The operator has addressed the stipulated conditions, however technical deficiencies still exist. The Division considers the stipulations to remain outstanding at present.

## ANALYSIS:

### UMC 817.43 Hydrologic Balance: Diversions and Conveyance of Overland Flow, Shallow Ground Water Flow, and Ephemeral Streams - MMD

The undisturbed drainage diversion design above the portal pad has been revised for the lower reach identified in the Division's conditional approval comments. The operator's revised design will utilize a 12 inch diameter culvert extending from the exploration road crossing to the stream confluence (beyond the channel riprap). This culvert has been demonstrated to safely convey the design storm runoff of 1.16 cfs. However the culvert location identified on the submitted Attachment C, Appendix C will require diverting the flow direction approximately 120 degrees at the culvert inlet and again at the outlet. The operator must therefore revise the culvert design to realign the culvert orientation or include elbows at the inlet and outlet to reduce the confluence angle to 30 degrees or less.

Page 2  
Stipulation Response  
New Surface Facilities  
Soldier Creek Coal Company  
ACT/007/018-89B

UMC 817.44 Hydrologic Balance: Stream Channel Diversions - MMD

The operator has revised the riprap apron design at the stream channel diversion outlet. The revised page 29E of 29 states that the apron "shall be installed to a minimum length of 34 feet from the culvert inlet." The Division assumes that the reference to "inlet" is a typo and the apron length will actually extend a minimum of 34 feet beyond the culvert outlet, as identified in the Division's review calculations. The operator must clarify this discrepancy.

RECOMMENDATIONS:

The Division recommends that final approval of the New Surface Facilities Amendment be denied until the operator has adequately addressed the aforementioned deficiencies.

BT98/89-90