



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

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Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 2, 1993

Ms. Kathleen G. Welt
Environmental Supervisor
Mountain Coal Company
P.O. Box 591
Somerset, Colorado 81434

Dear Ms. Welt:

Re: Water Monitoring Amendment, Mountain Coal Company, Gordon Creek #3
and #6 Mines, ACT/007/017-93A, Folder #3, Carbon County, Utah

The above-noted amendment has been reviewed and is conditionally approved. Table 7-5, page 7-35, must be corrected to indicate bi-annual sampling until bond release (see attached memo). Please submit this corrected page by June 22, 1993.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

pgl

Enclosure

cc: Bill Malencik, PFO





STATE OF UTAH
NATURAL RESOURCES
Division of Oil, Gas & Mining

To:

Ken

From: **Pam Grubaugh-Littig**

Date:

5/27/93

For your information and file.

For necessary action.

Other. _____

*Have you seen
this. I had
Dan send another
copy. Did you
ever review?*

WAL

93A



BLACKHAWK ENGINEERING, CO.

Rt. 1, Box 146-H5 - Helper, Utah 84526 - Telephone (801) 637-2422

March 19, 1993

RECEIVED

MAY 27 1993

DIVISION OF
OIL GAS & MINING

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Water Monitoring Plan Correction
Mountain Coal Company
Gordon Creek No. 3/6 Mines
INA/007/016
Carbon County, Utah

Dear Ms. Littig:

At the request of Mr. Bill Malencik, I have revised the Water Monitoring Plan for the Gordon Creek No. 3/6 Mines, to correct a discrepancy on the pond discharge station 3-2-W. This change will make the sampling frequency consistent with current requirements of the U.P.D.E.S. Discharge Permit for the site.

I have enclosed 3 copies of the revised sheets. The sheets are numbered, and should replace corresponding sheets in the plan.

If you have any questions. or need any further information, please let me know.

Respectfully,

Dan W. Guy
President

cc: Bill Malencik-DOGM
Kathy Welt-MCC
File

7.2.6 Surface Water Monitoring Plans (Continued)

The water samples are currently analyzed at the Intermountain Laboratories in Farmington, New Mexico. All tests are performed using accepted standard methods.

An additional station (3-4-W) will be added to the monitoring program after reclamation. Station 3-1-W will then show affects from the No.3/6 Mine reclaimed area, 3-4-W will reflect natural drainage, 3-2-W will show results of any pond overflow. (3-3-W is no longer accessible and has been eliminated.)

Stations 3-1-W and 3-4-W will be monitored for the parameters and frequencies listed on Figures 7-5 and 7-6. The monitoring will continue until bond release. Station 3-2-W will continue to be monitored as required by the UPDES Permit. At the cessation of monitoring, all wiers or other monitoring devices will be removed.

Water monitoring samples on stations 3-1-W and 3-4-W will be taken on a quarterly basis until Phase II Bond Release, and bi-annually (two per annum) for the succeeding years until final bond release. The following field measurements will be taken during each sample period: Flow, pH, Specific Conductivity, Temperature and Dissolved Oxygen (ppm) (perennial streams only). The following laboratory measurements will be made on each sample collected: Total Suspended Solids, Total Dissolved Solids, Total Hardness (as CaCO_3), Acidity (CaCO_3), Calcium, Chloride, Iron, Magnesium, Total Manganese, Potassium, Sodium, Sulfate, and a Cation-Anion Balance. (See Figure 7-6). Settleable Solids and Oil and Grease parameters will continue to be run on pond discharge samples only (per UPDES requirements). Water monitoring samples will be taken monthly on Station 3-2-W as required by the UPDES Permit. This station will continue to be monitored only as long as required by the UPDES Permit.

Mining and Reclamation Plan
 Gordon Creek Nos. 3 and 6 Mine Permit Application

FIGURE 7-5
 SURFACE WATER MONITORING
 GORDON CREEK NOS. 3 & 6 MINES

STATION	LOCATION	TYPE	FREQUENCY	FLOW DEVICE	RESULTS TO:	REMARKS
3-1-W	Coal Canyon above #3 mine sed. ponds	Ephemeral Stream	Quarterly	Wier	DOGM	Sed. pond inlet
3-2-W	Coal Canyon below sed. pond	Discharge	Monthly (per UPDES Permit)	Direct from Culvert	DOGM, EPA, State Health	Monitored per UPDES permit
3-4-W	Coal Canyon above #3 mine site (main fork)	Ephemeral Stream	Quarterly	Wier	DOGM	Undisturbed drainage above reclaimed area.

7.2.6 Surface Water Monitoring Plans (Continued)

The water samples are currently analyzed at the Book Cliffs Laboratory in Steamboat Springs, Colorado. All tests are performed using accepted standard methods.

An additional station (3-4-W) will be added to the monitoring program after reclamation. Station 3-1-W will then show affects from the No.3/6 Mine reclaimed area, 3-4-W will reflect natural drainage, 3-2-W will show results of any pond overflow. (3-3-W is no longer accessible and will be eliminated.)

Stations 3-1-W and 3-4-W will be monitored for the parameters and frequencies listed on Figures 7-5 and 7-6. The monitoring will continue until bond release. Station 3-2-W will continue to be monitored as required by the NPDES Permit. At the cessation of monitoring, all wiers or other monitoring devices will be removed.

Water monitoring samples will be taken on a quarterly basis for two years following reclamation, and bi-annually (two per annum) for the succeeding years until bond release. The following field measurements will be taken during each sample period: Flow, pH, Specific Conductivity, Temperature and Dissolved Oxygen (ppm) (perennial streams only). The following laboratory measurements will be made on each sample collected: Total Suspended Solids, Total Dissolved Solids, Total Hardness (as CaCO₃), Acidity (CaCO₃), Calcium, Chloride, Iron, Magnesium, Total Manganese, Potassium, Sodium, Sulfate, and a Cation-Anion Balance. (See Figure 7-6). Settleable Solids and Oil and Grease parameters will continue to be run on pond discharge samples only (per NPDES requirements).

AMENDMENT TO

APPROVED Mining & Reclamation Plan
Approved, Division of Oil, Gas & Mining

by Henry Jones date 12/5/86

09/28/87

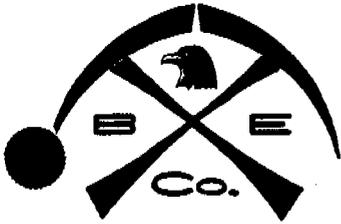
FILE 7-33 COP

Mining and Reclamation Plan
 Gordon Creek Nos. 3 and 6 Mine Permit Application

FIGURE 7-5
 SURFACE WATERING PROGRAM
 GORDON CREEK NOS. 3 & 6 MINES

STATION	LOCATION	TYPE	FREQUENCY	FLOW DEVICE	RESULTS TO:	REMARKS
*3-1-W	Coal Canyon above #3 mine sed. ponds	Ephemeral Stream	Quarterly 2x's/yr	Wier	DOGM, OSM	Below No.3/6 Mine Reclaimed Area
3-2-W	Coal Canyon below sed. pond	Discharge	2/mon. (per NPDES Permit)	Wier	DOGM, OSM,	Also monitored for EPA as per NPDES permit
3-3-W	Underground	Ground Water	Quarterly	Wier or flowmeter	DOGM, OSM	No longer accessible
3-4-W	Coal Canyon above #3 mine site (main fork)	Ephemeral Stream	Quarterly 2x's/yr	Wier	DOGM, OSM	Water undis- turbed drainage

*Stipulation 817.52 (2)



BLACKHAWK ENGINEERING, CO.

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March 19, 1993

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