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

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

November 25, 1988

TO: John Whitehead, Permit Supervisor

FROM: Tom Munson, Reclamation Hydrologist *TM*

RE: Water Monitoring Amendment, Beaver Creek Coal Company,
Huntington Canyon #4 Mine, INA/015/004-88(B), Folder
No. 2, Emery County, Utah

Synopsis

On November 1, 1988, the Division requested that a revision be submitted which addressed the changes in water monitoring on station 4-1-W (Little Bear Spring).

Analysis

The operator complies with the request to delete monitoring of spring station 4-1-W (Little Bear Spring) because of inaccessibility. Instead the operator will submit all water data taken by the Castle Valley Special Service District for this spring in their annual report.

Recommendation

This amendment be approved and the text changes be inserted into the PAP.

djh
AT5/58



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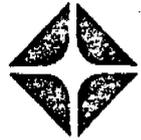
Recommendation

This amendment be approved and the text changes be inserted into the PAP.

djh
AT5/58

BEAVER CREEK Coal Company

Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050



November 8, 1988

Mr. Lowell P. Braxton
Administrator
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Mr. Tom Munson

RE: Water Monitoring Amendment
Huntington Canyon No.4 Mine
INA/015/004-88(B); #2
Emery County, Utah

Dear Mr. Braxton:

Enclosed are 8 copies of revised pages for the NO.4 Mine PAP, as requested in Mr. Munson's memo on November 1, 1988. These pages reflect the proposed change in water monitoring on station 4-1-W (Little Bear Spring).

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

Respectfully,

A handwritten signature in cursive script that reads "Dan W. Guy".

Dan W. Guy
Manager Permitting/Compliance

cc: Johnny Coffey
File

IBM MIKE

Springs and Seeps

The locations of all present spring monitoring stations are shown on Plate 7-3, and described in Figure 7-9. Springs and seeps are sampled at the point where they surface.

NOTE: Due to the inaccessibility and potential health hazard of sampling a culinary water supply, Beaver Creek Coal Company will no longer sample the Little Bear Spring, Station 4-1-W. Sampling and flow data for this station will be obtained from the Castle Valley Special Service District, and provided to the Division with the Annual Report for the property.

Streamflow

Stream monitoring stations were upgraded during the Fall of 1981 and Spring 1982. Gaging locations are maintained above and below the permit area on Mill Fork. Site descriptions follow.

Figure 7-9

SPRING AND SEEP MONITORING PROGRAM

HUNTINGTON CANYON NO. 4 MINE

<u>Station</u>	<u>Location</u>	<u>Type</u>	<u>Frequency</u>	<u>Flow Device</u>	<u>Results to:</u>
4-1-W	Little Bear	Spring	*Flow Monthly Quality Semi- annual	City of Hunt- ington Flow Meter	DOG&M, with Annual Report

* To be supplied by Castle Valley Special Service District annually.

7.2.6 Surface Water Monitoring Plans

Water Quality and NPDES Discharges

Water Quality Samples are collected at stream gaging sites on Upper Mill Fork (4-3-W) and on Lower Mill Fork (4-8-W).

Water quality samples are also collected from the inflow to the sediment pond 4-6-W and from the outflow from the sediment pond 4-7-W.

A description of the Surface Water Monitoring Program is provided in Figure 7-10.

Location 4-7-W is an NPDES discharge point. Location 4-7-W is monitored for possible discharge of stormwater runoff from surface disturbed areas.

Monitoring Frequency

Station 4-1-W is monitored for quality bi-annually by the Castle Valley Special Service District. Quality and flow measurements as recorded by the Castle Valley Special Service District are submitted annually to Beaver Creek Coal Company and will be provided to the Division in the Annual Report. Stations 4-3-W and 4-8-W are monitored quarterly for flow and quality. Stations 4-6-W and 4-7-W are monitored monthly for flow and quality when accessible. 4-7-W is an NPDES Discharge Point, and is monitored according to the permit.

Figure 7-10

STREAMFLOW AND WATER QUALITY MONITORING PROGRAM

HUNTINGTON CANYON NO. 4 MINE

<u>Station</u>	<u>Location</u>	<u>Type</u>	<u>Frequency</u>	<u>Flow Device</u>	<u>Results to:</u>	<u>Remarks</u>
4-1W	Little Bear Spring Manhole	Piped Spring	Bi-Annual Quality Monthly- Flow	Meter(CVSSD)	DOG&M, (Annual Report)	Flow and Quality Measurements supplied by Castle Valley Special Service District
4-3-W	Upper Mill Fork	Intermittent Stream	Quarterly	Crest Gage, Staff gage & rating curve	DOG&M	
4-6-W	Inflow to Sed. Pond	Surface Runoff	Monthly	Portable flume	DOG&M	
4-7-W	Outflow from Sed. Pond	Discharge	Monthly	Portable flume	DOG&M EPA	Monitored as per NPDES Permit
4-8-W	Lower Mill Fork	Intermittent Stream	Quarterly	2 ft. Parshall Flume	DOG&M	

7.2.6 Surface Water Monitoring Plans

Analysis Methods

All water analysis are performed by a qualified laboratory using standard methods for analyses. Whenever possible, temperature, pH, and specific conductance will be performed in the field by environmental personnel for more precise data collection. Those parameters that cannot be tested in field are run by a certified, reputable, commercial lab. Check samples on our laboratory are sent out periodically to a commercial firm.

Reports

Reports are submitted to DOGM within sixty (60) days of the end of each quarter. These reports include: station number, type, location, date of collection, and all data required for the parameters checked.

Monitoring results from station 4-1-W will be supplied to the Division with the Annual Report.

All support data, and a complete copy of all monitoring results are kept on file at the Beaver Creek Coal Company office.

General

It should be noted that the above described sampling program does not include the EPA sampling program for location 4-7-W. The EPA station is sampled according to the requirements in the NPDES permits and results are sent to the EPA and State of Utah as required. A copy of each report is kept in file in the Beaver Creek Coal Company office. A description of the streamflow and quality monitoring program is summarized in Figure 7-10. Locations of monitoring stations are shown on Plate 7-3.