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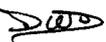
State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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August 4, 1988

TO: File

From: David Darby, Geologist 

RE: Request to Revise Water Monitoring Plan, Hiawatha Mine Complex, U. S. Fuel Company, ACT/007/011-88A, File Folder #2, Carbon County, Utah

Synopsis

U. S. Fuel Company presented a request to modify their surface water monitoring frequency which would conform to operational water monitoring standards established by the Utah Division of Oil, Gas and Mining. The request for surface monitoring was reviewed by Tom Munson, DOGM. His recommendations are drafted in a memorandum dated July 7, 1988.

Hiawatha's ground water monitoring program was reviewed to evaluate the status of parameters that are being monitored, and to see if a reduction or change in the program should be considered.

U. S. Fuel Company currently monitors ten spring (SP-1, SP-2, SP-4, SP-5, SP-6, SP-8, SP-9, SP-11, SP-12 and SP-13) twice each year, normally in July and October to sample the high and low flow periods. Mine water is also monitored on a monthly frequency. These sites are designated as D-001, D-002 and D-010. These monitoring sites are indicated on Exhibit VII-1, Volume 2 of U. S. Fuel Company's Mining and Reclamation Plan.

Analysis

Hiawatha's ground water monitoring program was revised in April, 1985 to conform with the current operational ground water monitoring guidelines. A list of parameters for spring monitoring, except manganese, is shown on page VII-27 (first paragraph). These parameters are different from those being monitored. The parameters being monitored reflect those that are listed in the ground water monitoring guidelines prepared by the Division.

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Conclusion

In evaluating current water quality monitoring data, the Division concludes that the sites being monitored should be maintained.

U. S. Fuel Company should change the spring monitoring parameter list on page VII-27 to incorporate:

Bicarbonate
Calcium
Carbonate
Magnesium
Manganese
Potassium
Sulfate

U. S. Fuel Company may delete nitrate concentration monitoring from the spring monitoring list (Page VII-27). This parameter should be kept where mine water discharge is used for potable water.

U. S. Fuel Company should include manganese in the ground water monitoring analyses.

dwd/DWD

cc. Sue Linner
R. Hagen
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1299R/107-108