

0027



# State of Utah

## INSPECTION REPORT

*0027*

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter  
Governor  
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801-538-5340

Partial: X Complete:      Exploration:       
Inspection Date & Time: 3/11/93, 10:30 - 13:30  
Date of Last Inspection: 2/24/93

Mine Name: Hiawatha County: Carbon Permit Number: ACT /007/011  
Permittee and/or Operator's Name: U.S. Fuel Co.  
Business Address: P.O. Box 887, Price Utah 84501  
Type of Mining Activity: Underground X Surface      Prep. Plant      Other       
State Official(s): Priscilla Burton  
Company Official(s): none  
Federal Official(s): none present  
Weather Conditions: sunshine, cool, 12 - 18" of snowpack  
Existing Acreage: Permitted-12,707 Disturbed-290 Regraded-     Seeded-     Bonded-290  
Increased/Decreased: Permitted-427 Disturbed-     Regraded-     Seeded-     Bonded-      
Status:      Exploration/ X Active/      Inactive/      Temporary Cessation/      Bond Forfeiture  
Reclamation (     Phase I/      Phase II/      Final Bond Release/      Liability      Year)  
REVIEW OF PERMIT, PERFORMANCE STANDARDS & PERMIT CONDITION REQUIREMENTS

### Instructions

- Substantiate the elements on this inspection by checking the appropriate performance standard.
  - For complete inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check N/A.
  - For partial inspections check only the elements evaluated.
- Document any noncompliance situation by referencing the NOV issued at the appropriate performance standard listed below.
- Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
- Provide a brief status report for all pending enforcement actions, permit conditions, Division Orders, and amendments.

	<u>EVALUATED</u>	<u>N/A</u>	<u>COMMENTS</u>	<u>NOV/ENF</u>
1. PERMITS, CHANGE, TRANSFER, RENEWAL, SALE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. SIGNS AND MARKERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. TOPSOIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. HYDROLOGIC BALANCE:				
a. DIVERSIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. SEDIMENT PONDS AND IMPOUNDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. OTHER SEDIMENT CONTROL MEASURES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. WATER MONITORING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. EFFLUENT LIMITATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. EXPLOSIVES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. DISPOSAL OF EXCESS SPOIL/FILLS/BENCHES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. COAL MINE WASTE/REFUSE PILES/IMPOUNDMENTS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. NONCOAL WASTE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. SLIDES AND OTHER DAMAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. CONTEMPORANEOUS RECLAMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. BACKFILLING AND GRADING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. REVEGETATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. SUBSIDENCE CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. CESSATION OF OPERATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. ROADS:				
a. CONSTRUCTION/MAINTENANCE/SURFACING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. DRAINAGE CONTROLS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. OTHER TRANSPORTATION FACILITIES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. SUPPORT FACILITIES/UTILITY INSTALLATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS CHECK (4th Quarter-April, May, June)_____ (date)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. AIR QUALITY PERMIT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. BONDING & INSURANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## INSPECTION REPORT

(Continuation sheet)

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PERMIT NUMBER: ACT /007/011

DATE OF INSPECTION: 3/11/93

(Comments are Numbered to Correspond with Topics Listed Above)

1. PERMITS, CHANGE, TRANSFER, RENEWAL, SALE:

The Permittee's obligations with regard to notification of the Division were reviewed with Mr. Michael Baum and Mr. Michael Watson of U.S. Fuel Co. (i.e., R645-301-515.320 *et seq* and R645-301-541 *et seq.*, R645-303-232.500, and R645-400-130 *et seq.*)

I was unaccompanied on the field inspection.

4. HYDROLOGIC BALANCE:

a. DIVERSIONS:

Although most of Middle Fork was snow covered, the path of melting snow was followed to accessible diversions and down drains (see Plate V-5). Of these, Mr. Baum was advised to clear ice and accumulated mud from the culvert which receives flow from DD17, the drop drain receiving flow from DD19, and the drop drain receiving flow from DD23 and DD56. Additionally, no flow could be observed from one of two 24" culverts entering the sediment pond 008, due to a frozen plastic spout. It was recommended that this spout be removed or slit to allow passage of water, since water was evidently flowing above the culvert. All water was reporting to the pond, a large portion of it was entering by way of DD21 and an open channel.

At the preparation plant, a large amount of water enters slurry pond 5a, primarily from snow melt. The drainage design of this flow should be evaluated prior to regrading the site for final reclamation. In light of a recent memo to file (3/4/93), I note the following information (see Plate V-9).

Sheet flow of water was accumulating at DD12 and entering the down drain in this location. Water is conveyed from the preparation plant DD 12 and from undisturbed ditch UD12 to DD1 and slurry pond 5A, where it is impounded. (The site was very muddy. Access to the slurry ponds was limited due to the mud.) The regulations covering the use of coal mine waste for impounding water are found under R645-301-746.

The requirements of R645-301-746.310 require a demonstration that the seepage from the impounded water in the waste will not deteriorate downstream water quality. A single sample of coal mine waste was supplied to the Division on 2/1/93. The material has a pyritic sulfur content of 0.05% sulfur which equates to an acid forming potential of 1.56 Tons/1000 Tons of slurry. The non-sulfate sulfur content of the slurry has an acid forming potential of 14.37 Tons/1000 tons of slurry. The neutralizing content of the slurry is 5 Tons/1000 tons of slurry (calcium carbonate content is 0.7%). Based upon non-sulfate sulfur, this slurry is acid-forming. (The analysis of this sample is attached.)

R645-301-746.340 indicates that the impounding structure should be designed to lose 90% of the water retained within a 10 day period after the event.

No violation was issued as the Permittee is in compliance with their Mining and Reclamation Plan.

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### b. SEDIMENT PONDS

The water level in Pond 008 at Middle Fork was low. The pond was receiving water from one culvert and an open channel.

### d. WATER MONITORING:

Surface water monitoring conducted by U.S. Fuel Co. in 1992 reveals that monitoring station 3B below the King 4 sediment pond has extremely high specific conductance, TDS, and associated ion concentrations compared to the readings taken from spring water (SP12) at the head of the canyon and ST 3 at lower Middle Fork; ST2 and ST 2B in North Fork; and Mine water discharges from NPDES points 001 and 010, at Mohrland and North Fork respectively.

During periods of run-off at the Middle Fork site, all diversions and down drains should be kept clear to ensure that all disturbed water is reporting to the pond. During this inspection, all water was reporting to the pond.

NOTE - This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining.

### Copy of this Report:

Mailed to: Marcia Petta (OSM), Michael Baum (U.S. Fuel Co.)

Given to: Joe Helfrich and Daron Haddock (DOGM)

Inspector's Signature: *Paula Burton* #37 Date: 3/12/93