

0007



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

DEZ
Jan

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

INSPECTION REPORT

INSPECTION DATE & TIME: 4/23/91
12:00 p.m. to 3:00 p.m.

Permittee and/or Operator's Name: Southern Utah Fuel Co. (SUFCO)
Business Address: P. O. Box P, Salina, Utah 84654 637-4880
Mine Name: Convulsion Canyon Mine Permit Number: ACT/041/002
Type of Mining Activity: Underground X Surface Other
County: Sevier Company Official(s): Mike Davis, Chris Kravits
State Officials(s): Priscilla Burton
Federal Official(s): None
Partial: X Complete Date of last Inspection: 3/28/91
Weather Conditions: Partly Sunny, Intermittent Sleet
Acreage: Permitted 17,301 Disturbed 26.2 Regraded 0.5 Seeded 0.5
Bonded 67.8 Enforcement Action: None

COMPLIANCE WITH PERMITS AND PERFORMANCE STANDARDS

	YES	NO	N/A	COMMENTS
1. PERMITS	(X)	()	()	(X)
2. SIGNS AND MARKERS	(X)	()	()	()
3. TOPSOIL	(X)	()	()	(X)
4. HYDROLOGIC BALANCE:				
a. STREAM CHANNEL DIVERSIONS	()	()	()	()
b. DIVERSIONS	()	()	()	()
c. SEDIMENT PONDS AND IMPOUNDMENTS	(X)	()	()	(X)
d. OTHER SEDIMENT CONTROL MEASURES	()	()	()	()
e. SURFACE AND GROUNDWATER MONITORING	(X)	()	()	(X)
f. EFFLUENT LIMITATIONS	()	()	()	()
5. EXPLOSIVES	()	()	()	()
6. DISPOSAL OF DEVELOPMENT WASTE & SPOIL	(X)	()	()	(X)
7. COAL PROCESSING WASTE	()	()	()	()
8. NONCOAL WASTE	()	()	()	()
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL VALUES	()	()	()	()
10. SLIDES AND OTHER DAMAGE	()	()	()	()
11. CONTEMPORANEOUS RECLAMATION	(X)	()	()	()
12. BACKFILLING AND GRADING	()	()	()	()
13. REVEGETATION	()	()	()	()
14. SUBSIDENCE CONTROL	()	()	()	()
15. CESSATION OF OPERATIONS	()	()	()	()
16. ROADS				
a. CONSTRUCTION	()	()	()	()
b. DRAINAGE CONTROLS	()	()	()	()
c. SURFACING	()	()	()	()
d. MAINTENANCE	()	()	()	()
17. OTHER TRANSPORTATION FACILITIES	()	()	()	()
18. SUPPORT FACILITIES				
UTILITY INSTALLATIONS	()	()	()	()

INSPECTION REPORT

(Continuation sheet)

Page 2 of 3

PERMIT NUMBER: ACT/041/002

DATE OF INSPECTION: 04/23/91

(Comments are Numbered to Correspond with Topics Listed Above)

1. Permits

Amendment 90-F, the new substation pad, has been approved. The site of construction was photographed. Construction will begin in May.

3. Topsoil

Topsoil stored at the waste rock site is stored in 3 piles: one for the last lift of the waste rock; one for the sediment pond at the waste rock site; and one for the subsoil storage area of the waste rock site.

Although all 3 piles have been seeded and mulched, none have well established vegetation. A few grasses were observed emerging. The establishment of grasses should be monitored this season. If emergence and growth is limited, further work may be necessary. I suggest reshaping the piles to form small dips in the surface to collect rain and snow. Seeding and mulching could be accomplished by hand in these depressions. In this manner, a community of grasses could be established, producing a seed source for revegetating the steeper slopes of the pile.

4.c. Sediment Ponds and Impoundments

Water from the mine site is collected in sediment trap and reused for dust control in the mine area. Eventually the water drains to a sediment pond at the base of a steep slope below the site.

This pond must be enlarged as a result of the additional area added to the drainage from the new substation pond. Therefore, water is being slowly discharged from the pond.

At the sediment pond, Outfall 002, the TSS results from 2 laboratories (2 separate samples not a split) varied by a factor of 5. One being over the NPDES limit. The Operator suspects that a high TSS may be the result of algae growth in one sample. I collected a sample of water from the pond discharge, NPDES Point 002. The sample is being analyzed for TDS, TSS and nutrients. The analytical results will be compared with recent self-monitoring results from samples taken in April.

The Operator has expressed frustration with errors in laboratory reporting of analytical results. A high oil and grease sample for Outfall 003 (inside the mine) (10.8 mg/L) was reported 02-06-91. A review of subsequent sampling on 3/28/91 shows an oil and grease level of 0.5 mg/L for Outfall 003, lending credence to the operator's suspicion of laboratory error in reporting the previous month.

INSPECTION REPORT

(Continuation sheet)

Page 3 of 3

PERMIT NUMBER: ACT/041/002

DATE OF INSPECTION: 04/23/91

(Comments are Numbered to Correspond with Topics Listed Above)

6. Disposal of Development Waste and Spoil

The first lift of the waste rock site was reclaimed last Fall. Approximately 30" of soil was placed on the waste. Mulch is evident on the surface. No plants have emerged. A few rills are forming down the east slope, approximately 4" deep.

The second lift is being placed to the west side of the first. Recent samples from the 4th quarter 1990 haulage reported elevated Boron levels of 6.4 ppm. Therefore, a composite sample was taken for analysis to determine the extent of Boron in the 2nd lift. The operator took a split of this sample.

A check of the monitoring wells in the waste rock area shows little variation in Boron levels from baseline to the present.

TABLE OF MEANS

	BASELINE		89-90 DATA
	Total Boron	Dissolved Boron	Dissolved Boron
B8 Upstream	N/A	0.10	0.10
B6 At Site of Lift 2	0.42	0.11	0.10
B3 Downstream of Lift 2	0.45	0.14	0.14

Copy of this Report:

Mailed to: John Kathmann - OSM; Wes Sorensen - SUFCO

Given to: Daron Haddock - DOGM; Joe Helfrich - DOGM

Inspector's Signature & Number:

Date: 5/2/91

Priscilla Butler

#37

INSP-CON.MPB

RECEIVED

MAY 15 1991

DIVISION OF
OIL GAS & MINING

NPDES POINT 002 AT SUFCO SED POND OUTFALL
DIV OF OIL, GAS & MINING
3 TRIAD CENTER SUITE 350
SALT LAKE CITY UT 84180-1203 538-5341

UTAH STATE HEALTH LABORATORY
Environmental Chemistry Analysis Report

Description: NPDES POINT 002 AT SUFCO SED POND OUTFALL			
Site ID:	Source: 00	<u>Date of Review and QA Validation</u>	
Cost Code: 350B		Inorganic Review:	91/05/09
Lab Number: 9102088	Type: 04	Organic Review:	
Sample Date: 91/04/23	Time: 14:45	Radiochemistry Review:	
Tot. Cations: 658		Microbiology Review:	
Tot. Anions: 390 mg/l	Cations: 31.6 me/l		
Grand Total: 1048 mg/l	Anions: 8.1 me/l		

Laboratory Analyses

T.Sus.Sol *	16 mg/l	Ammonia N	<0.05 mg/l
Nitrate N *	<0.01 mg/l	Nitrite N *	<0.01 mg/l
Ortho Phos *	0.195 mg/l	Sulfate	390 mg/l
TDS @ 180C	1924 mg/l		

NO2 Holding time was exceeded before analysis was completed
 NO3 Holding time was exceeded before analysis was completed
 OPO4 Holding time was exceeded before analysis was completed
 TSS Holding time was exceeded before analysis was completed



please attach to inspection report dated 4.23.91

ACT 048/002
Folder #5

UTAH STATE UNIVERSITY · LOGAN, UTAH 84322-4830

Telephone (801) 750-2217

Soil, Plant and Water
Analysis Laboratory

RECEIVED

JUN 26 1991

DIVISION OF
OIL GAS & MINING

25 June 1991

Results for:

Priscilla Burton
Dept. of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Sample received 5/13/91.

USU#	ID	mg/kg		
		Total B	H2O Sol B	Hot Water B
2145	Lift #2	104	2.44	5.76

For further assistance, please contact the lab

HKQ

ACT 041/002 Folder #5
attach to inspection report
4.23.91

COMPOSITE OF LIFT #2
DIV OF OIL GAS AND MINING
3 TRIAD CENTER SUITE 350
SALT LAKE CITY UT 84180-1203 538-5341

UTAH STATE HEALTH LABORATORY
Environmental Chemistry Analysis Report

Description:	COMPOSITE OF LIFT #2		
Site ID:	Source:	00	<u>Date of Review and QA Validation</u>
Cost Code:	350B		Inorganic Review: 91/06/17
Lab Number:	9102475	Type: 50	Organic Review:
Sample Date:	91/04/24	Time: 10:00	Radiochemistry Review: 91/06/17
Tot. Cations:			Microbiology Review:
Tot. Anions:	mg/l	Cations:	me/l
Grand Total:	mg/l	Anions:	me/l

Laboratory Analyses LIFT #2 4.24.91 = sample date

L-pH *	6.88	D-Boron	4.2 ppm
		T-Boron	53.0

PH Holding time exceeded before sample delivery
PH Holding time was exceeded before analysis was completed

ACT 041/002 Folder # 5
attach to inspection report 4.23.91

RECEIVED

MAY 15 1991

DIVISION OF
OIL GAS & MINING

NPDES POINT 002 AT SUFCO SED POND OUTFALL
DIV OF OIL, GAS & MINING
3 TRIAD CENTER SUITE 350
SALT LAKE CITY UT 84180-1203 538-5341

UTAH STATE HEALTH LABORATORY
Environmental Chemistry Analysis Report

Description: NPDES POINT 002 AT SUFCO SED POND OUTFALL
Site ID: Source: 00 Date of Review and QA Validation
Cost Code: 350B Inorganic Review: 91/05/09
Lab Number: 9102088 Type: 04 Organic Review:
Sample Date: 91/04/23 Time: 14:45 Radiochemistry Review:
Tot. Cations: 658 Microbiology Review:
Tot. Anions: 390 mg/l Cations: 31.6 me/l
Grand Total: 1048 mg/l Anions: 8.1 me/l

Laboratory Analyses

NPDES POINT 002 SUFCO 4.23.91

T.Sus.Sol *	16 mg/l	Ammonia N	<0.05 mg/l
Nitrate N *	<0.01 mg/l	Nitrite N *	<0.01 mg/l
Ortho Phos *	0.195 mg/l	Sulfate	390 mg/l
TDS @ 180C	1924 mg/l		

NO2 Holding time was exceeded before analysis was completed 48 hrs
NO3 Holding time was exceeded before analysis was completed 48 hrs
OPO4 Holding time was exceeded before analysis was completed 48 hrs
TSS Holding time was exceeded before analysis was completed ASAP