

APPLICATION FOR A PERMIT

SURFACE EFFECTS OF UNDERGROUND COAL MINING ACTIVITIES
PROMULGATED UNDER UCA 46-10-1 et seq.

UNITED STATES FUEL COMPANY
KING MINES
CARBON AND EMERY COUNTIES, UTAH

VOLUME I

CHAPTER

- I Introduction and Summary of Permit Application
- II Legal, Financial, Compliance and Related Information
- III Operation and Reclamation Plan
- IV Land Status, Land-Use and Postmining Land-Use
- V Historical and Cultural Resources

SUBMITTED TO

STATE OF UTAH
BOARD AND DIVISION OF OIL, GAS &

By

UNITED STATES FUEL COMPANY
Hiawatha, Utah

MARCH 1981

*Chapters 1, 2, & 3 verified
by Lynn Kunder & Jean Sembrsky
as being correct on 5/27/87*

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DIVISION OF
OIL, GAS & MINING

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MRP Update Register

Mine Name

File Number

Hiawatha Complex

ACT/007/011

Date Rec.	Page #s	Plate #s	Approval Date *	Insert By	Content/Remarks	
6/4/87	P	III-3	11-17-87	✓	Coarse Refuse Storage extension Area (2 acres)	87A
8/27/87			11-18-87	✓	Design Changes Inlet/Outlet structures, Mid. Fork, Pond	87B
12/18/87		III-3	2-29-88	✓	Revision to Approved Amendment C/007/011/87A	87C
12/21/87			3-29-88	✓	Underground Mine Plan Change For #4 mine	87D
12/24/87			2-22-88	✓	Minor Underground Mine Plan Change For #6 mine	87E
3-24-88	III-6, 7 Table III-3, -7B, 7C, 8	none	1-28-89	LK	Surface Water Monitoring Change	88A
6-2-88	Appendix III-17		6-17-88	✓	Mohrland Pipeline Upgrade	88B
6-22-88			7-22-88	✓	Underground Sequence Change	88C
8-17-88	III, 27 III, 28	III-1C III-1	C.A. 9-21-88 FA-1-20-89	LK	Water Monitoring Rev.	88D
10-28-88	III-6, -7, -8, 9, 27, 28 Rev III-3 Table III-8	III-1	CA 11-30-88 FA 1-20-89	LK	3rd. Water Monitoring Change	88E
11-3-88	App III-17	III-3 F-534	1/89	✓	TDN Responses	88F
2/24/89	App III-18		2/27/89	✓	Temp. crushing facility	89A
3/10/89	III-27 Table III-5B		1/89	✓	Middle Fork Leadout Upgrade Rev. Spring Monitoring Plan	89B
3/8/89					Middle Fork Coal Leadout Mod	89C
CA = Conditional Approval				✓	Temp. Waste Rock Storage	89D
3/22/89	36	III-8 III-9	4/11/89		Site	

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Exhibit III-3

Hiawatha Processing Plant
and Waste Disposal

Scale, 1" = 200 ft.

- (a) Surface buildings and structures
- (b) Tipple, wash plant
- (c) Coal stockpiles, slurry piles, sedimentation ponds
- (d) Railroad loadout
- (e) Drainage control
- (f) Proposed future developments
- (g) Power systems
- (h) Transportation: roads, track, belts
- (i) Disturbed areas (existing and proposed).

Exhibit III-4A

South (Left) Fork of
Miller Creek Canyon
Surface Facilities
(Page 1 of 2)

Scale, 1" = 200 ft.

- (a) Surface buildings and structures
- (b) Sedimentation ponds, drainage control
- (c) Proposed future developments
- (d) Transportation
- (e) Disturbed areas (existing and proposed).

Exhibit III-4B

South (Left) Fork of
Miller Creek Canyon
Surface Facilities
(Page 2 of 2)

Scale, 1" = 200 ft.

- (a) Surface buildings and structures
- (b) Sedimentation ponds, drainage control
- (c) Proposed future developments
- (d) Transportation
- (e) Disturbed areas (existing and proposed).

Exhibit III-5A

Mohrland Area, Cedar Creek Canyon
Surface Facilities
(Page 1 of 2)

Scale, 1" = 200 ft.

- (a) Surface buildings and structures
- (b) Tipple, wash plant
- (c) Coal stockpiles, slurry piles, sedimentation ponds
- (d) Railroad loadout
- (e) Drainage control
- (f) Proposed future developments
- (g) Power systems
- (h) Transportation: roads, track, belts
- (i) Disturbed areas (existing and proposed).

Exhibit III-5B Mohrland Area, Cedar Creek Canyon Scale, 1" = 200 ft.
Surface Facilities
(Page 2 of 2)

- (a) Surface buildings and structures
- (b) Tipple, wash plant
- (c) Coal stockpiles, slurry piles, sedimentation ponds
- (d) Railroad loadout
- (e) Drainage control
- (f) Proposed future developments
- (g) Power systems
- (h) Transportation: roads, track, belts
- (i) Disturbed areas (existing and proposed):

Exhibit III-6A King No. 4 A-Seam Scale, 1" = 1,000 ft.
Mine Plan, Middle Fork

- (a) Outcrop
- (b) Portal location
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections.

Exhibit III-6B King No. 4 B-Seam Scale, 1" = 1,000 ft.
Mine Plan, Middle Fork

- (a) Outcrop
- (b) Portal blowup (1" = 200 ft.)
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections.

Exhibit III-7A King No. 5 A-Seam Scale, 1" = 1,000 ft.
Mine Plan, Middle Fork

- (a) Outcrop
- (b) Portal location
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections.

Exhibit III-7B King No. 5 B-Seam Scale, 1" = 1,000 ft.
Mine Plan, Middle Fork

- (a) Outcrop
- (b) Portal blowup (1" = 200 ft.)
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections.

Exhibit III-8A King No. 6 Hiawatha Seam Scale, 1" = 1,000 ft.
Mine Plan, South (Left) Fork

- (a) Outcrop
- (b) Portal blowup (1" = 200 ft.)
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections.

Exhibit III-8B King No. 6 A-Seam Scale, 1" = 1,000 ft.
Mine Plan, South (Left) Fork

- (a) Outcrop
- (b) Portal location
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections.

Exhibit III-9 King No. 7 Hiawatha Seam Mine Plan Scale, 1" = 1,000 ft.
Cedar Creek Canyon

- (a) Outcrop
- (b) Portal location
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections
- (f) Portal alternatives 1A and 1B.

Exhibit III-10 King No. 8 Upper Seam Mine Plan Scale, 1" = 1,000 ft.
Mohrland Area, Cedar Creek Canyon

- (a) Outcrop
- (b) Portal location
- (c) Old mine works
- (d) Property boundaries
- (e) Mine projections
- (f) Portal alternatives 2A and 2B.

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Exhibit IV-1 Surface Ownership Map Scale, 1" = 4,000 ft.

- (a) U.S. Fuel Company fee and lease
- (b) Adjacent land owners.

Exhibit IV-2 Subsurface Ownership Map Scale, 1" = 4,000 ft.

- (a) U.S. Fuel Company fee coal
- (b) U.S. Fuel Company lease coal
- (c) Adjacent subsurface coal owners.

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Chapter VI Geology

Exhibit VI-1 General Geology Map Scale, 1" = 2,000 ft.

- (a) Formations
- (b) Faults.

Exhibit VI-2 Hiawatha Seam Reserve Map Scale, 1" = 2,000 ft.

- (a) U.S. Fuel Company lease and fee property
- (b) Outcrop and measurements
- (c) Coal seam isopach
- (d) Drill hole locations, mine measurements
- (e) Dip and strike
- (f) Cross section locations.

Exhibit VI-3 A-Seam Reserve Map Scale, 1" = 2,000 ft.

- (a) U.S. Fuel Company lease and fee property
- (b) Outcrop and measurements
- (c) Coal seam isopach
- (d) Drill hole locations, mine measurements
- (e) Dip and strike
- (f) Cross section locations.

Exhibit VI-4 B-Seam Reserve Map Scale, 1" = 2,000 ft.

- (a) U.S. Fuel Company lease and fee property
- (b) Outcrop and measurements
- (c) Coal seam isopach
- (d) Drill hole locations, mine measurements
- (e) Dip and strike
- (f) Cross section locations.

Exhibit VI-5 Upper Seam Reserve Map Scale, 1" = 2,000 ft.

- (a) U.S. Fuel Company lease and fee property
- (b) Outcrop and measurements
- (c) Coal seam isopach
- (d) Drill hole locations, mine measurements
- (e) Dip and strike
- (f) Cross section locations.

<u>Exhibit VII-10</u>	U. S. Fuel Company South (Left) Fork of Miller Creek: Sedimentation Pond	Scale as Shown
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<u>Exhibit VII-12</u>	U. S. Fuel Company South (Left) Fork of Miller Creek: Lower Sedimentation Pond Cross Section (G-14)	Scale as Shown
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<u>Exhibit VII-14</u>	John T. Boyd Company Cedar Creek Canyon: Sedimentation Pond No. 1 For Railroad Loadout	Scale as Shown
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<u>Exhibit VII-16</u>	John T. Boyd Company Cedar Creek Canyon: Sedimentation Pond No. 3 For Mohrland Area Portals Alternatives No. 1A and 2A Areas	Scale as Shown
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<u>Exhibit XIII-1C</u>	Mohrland Roadway Plan and Profile Sheet 3 of 5	Scale, 1" = 200 ft. horiz. 1" = 100 ft. vert.
<u>Exhibit XIII-1D</u>	Mohrland Roadway Plan and Profile Sheet 4 of 5	Scale, 1" = 200 ft. horiz. 1" = 100 ft. vert.
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Chapter I

INTRODUCTION AND SUMMARY
OF PERMIT APPLICATION

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1.1 Scope of Operation

United States Fuel Company of Hiawatha, Utah, a wholly owned subsidiary of Sharon Steel Corporation, hereby submits its permit application on March 23, 1981, pursuant to Utah's Underground Coal Mining Code Part UMC 786.

United States Fuel Company controls, in fee and through a variety of leases, 20,700 acres of land in Carbon and Emery Counties, Utah. The King mine complex represents a consolidation of the original King, Hiawatha, Blackhawk and Mohrland underground mines. These mines have been active since the late 1890's, and through 1977 have produced over 56 million tons of coal.

This permit application represents several different areas of current mining operations and the scheduled redevelopment of others. Surface areas of mines scheduled for redevelopment have been disturbed, to some extent, from previous mining.

1.2 Summary of Environmental Impacts

United States Fuel Company has been operating coal mines in the Hiawatha area since the early part of the turn of the century. Any severe environmental impacts will have already occurred. United States Fuel Company has taken necessary steps through the years to mitigate and monitor impacts from mining. Control measures needed to mitigate impacts have included the necessary steps to protect ground and surface waters, soil resources, vegetation, wildlife and air quality. This report represents an accumulation of data previously collected from the mining area and monitoring plans to continue the effort to protect the environment.

1.3 Introduction to Document Organization and Reviewers Checklist

1.4 Acknowledgements

This permit application was assembled through the contributions of the following people and organizations:

United States Fuel Company
Hiawatha
Utah 84527
Robert Eccli, Mine Engineer
Abdalla Elias, Mining Engineer
Arthur Duane Wise, Head Surveyor
Charles J. Jahne, P.E.

John T. Boyd Company
1860 Lincoln Street
Denver, Colorado 80295
Michael Meenan, Environmental Engineer
David Morris, Vice President and Manager

Vaughn Hansen Associates
5620 South 1475 East
Salt Lake City, Utah 84121

Rollins, Brown and Gunnell, Inc.
1435 West 820 North
Provo, Utah 84601

BIO/WEST, Inc.
P. O. Box 3226
Logan, Utah 84321
Christopher A. Call, Range Ecologist
Jerry R. Barker, Range Ecologist

State of Utah
Division of Wildlife Resources
Southeastern Regional Office
455 West Railroad Avenue, Box 840
Price, Utah 84501
John Livesay, Supervisor
Larry Dalton

State of Utah
Division of Environmental Health, Bureau of Air Quality
150 West North Temple
P. O. Box 2500
Salt Lake City, Utah 84110
Brent C. Bradford, Director

F. M. Fox and Associates, Inc.
4765 Independence Street
Wheat Ridge, Colorado 80033

U.S. Soil Conservation Service
Room 6, Walker Bank Building
Price, Utah 84501

Gary Moreau, SCS District Conservationist
Jim Borchard, SCS Range Conservationist
Earl Jensen, SCS Range Conservationist
George Cook, SCS Range Conservationist
Don Andrews, SCS Range Conservationist

**Exhibits
Chapter I**

Summary of Permit Application

Vicinity
Ex I-2

Chapter II

LEGAL, FINANCIAL, COMPLIANCE
AND RELATED INFORMATION

UNITED STATES FUEL COMPANY

HIAWATHA, UTAH 84527

March 28, 1985

Mr. Ron Naten
Office of Surface Mining
Reclamation and Enforcement
Brooks Towers
1020 15th Street
Denver, Colorado 80202

RE: Chapter II Revision

Dear Ron:

Enclosed are seven copies of revised Chapter II of our permit application. Please refer to the instruction sheets on the copies for details on replacement procedures.

Also enclosed are select Chapter VII replacement pages. These changes have been made in response to OSM's Permit Conditions received by U.S. Fuel Co. on March 18, 1985. Instructions for their replacement can be found in the March 22, 1985 letter attached to each set of revised pages.

If you have any questions about this submittal and replacement please contact us.

Sincerely,

Jean Semborski
Jean Semborski
Engineer

Enclosure

pc: Sue Linner - DOGM

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APR 1 1985

DIVISION OF
OIL, GAS & MINING



RECEIVED

APR 1 1935

DIVISION OF
OIL, GAS & MINING

MARCH 23, 1981

UNITED STATES FUEL CO.
P.O. BOX A
HIAWATHA, UTAH 84527

JIM SMITH
COORDINATOR OF MINED LAND DEVELOPMENT
UTAH DEPT. OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116

MAR 23 1981

DIVISION OF
OIL, GAS & MINING

JIM,

I HAND DELIVERED 6 (SIX) COPIES OF OUR MINING
AND RECLAMATION PLAN (INCLUDING FOUR VOLUMES
- VOLUME NO. III MISSING) TO YOUR OFFICE ON
MARCH 23, 1981. ~~THE~~ VOLUME NO. III WILL BE DELIVERED
AS SOON AS IT CAN BE LOCATED.

SEVEN COPIES OF THE PLAN WERE HAND DELIVERED
TO O.S.M. BY JOHN T. BOYD CO.

YOURS TRULY
Robert Eeli
MINE ENGINEER

Paid \$5.00 Cash 3-23-81 JWS

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NPDES Permit

Topographic Maps of Discharge Points

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UMC 771.27 VERIFICATION OF APPLICATION

United States Fuel Company

Permit No. ACT/007/011

Errol M. Gardiner being first duly sworn, upon oath deposes and says that he is the Vice President and General Manager of United States Fuel Company and that he has reviewed and knows the contents of U.S. Fuel Company's Mining and Reclamation Plan submitted to the Utah Division of Oil, Gas and Mining and the Federal Office of Surface Mining in March of 1981.

I verify that the above mentioned plan is true and correct to the best of my information and belief.



Errol M. Gardiner
Vice President and General Manager

Subscribed and sworn to before me this 19 day of May, 1983.


Notary Public

5-21-83



2.1 Scope

United States Fuel Company is applying for a permit for an existing underground coal mining operation. The regulations promulgated under UCA 40-10-1 et seq., for the Utah Division of Oil, Gas and Mining pertaining to Surface Effects of Underground Coal Mining Activities are the guidelines by which Chapter II, Legal, Financial, Compliance and Related Information follow. The prescribed UMC number reference is from the permanent program final rules.

2.2 UMC 782.13 Identification of Interests

782.13 (a) (1) Permit applicant name, address and telephone number:

United States Fuel Company
P.O. Box A
Hiawatha, Utah 84527
801/343-2471

United States Fuel Company is a wholly owned subsidiary of Sharon Steel Corporation.

Principal office address: U.S. Route 62
Thomas Road
Hubbard Township, Ohio 44425

Corporate office address: 6917 Collins Avenue
Miami Beach, Florida 33141

(a) (2) Surface and subsurface ownership is shown on Exhibits VI-1 and VI-2.

(a) (3) Appendix II-1 has been revised to show the status of both surface and coal rights. The appendix lists five categories regarding ownership or leasehold interest. These five categories are delineated on revised Exhibits IV-1 and IV-2. Acreages for all five categories are presented for both the permit area and the future permit area. The totals of all acreages agree with the areas delineated by the boundaries shown on the exhibits.

A definition of terms has been prepared to more fully explain the ownership categories contained in Appendix II-1 and is located with Appendix II-1. U.S. Fuel does not intend to mine in areas of Section 17, T15S, R8E where Plateau Mining Company holds coal rights. Plateau does not have coal rights in the E $\frac{1}{2}$, E $\frac{1}{2}$ Section 21, T15S, R8E.

(a) (4) Not Applicable

(a) (5) United States Fuel Company will be the operator under this permit application.

(a) (6) Errol Gardiner, Vice President and General Manager
United States Fuel Company
P.O. Box A
Hiawatha, Utah 84527 801/343-2471

(b) U.S. Fuel Company is a corporation and incorporated in the State of Nevada.

- (b) (1) Name and address of every officer, partner, director, or other person performing a function similar to a director of the applicant.

Officer authorized to act on behalf of United States Fuel Company are:

Mr. E.M. Gardiner, Vice President and General Manager

Address: United States Fuel Company
P.O. Box A
Hiawatha, Utah 84527

Officers authorized to act on behalf of Sharon Steel Corporation are:

Victor Posner, Chairman of the Board and Chief Executive Officer

Steven Posner, Vice Chairman of the Board and Chairman of the Executive Committee

Guy F. McCracken, Executive Vice President and Chief Operating Officer

Bernard M. Krakower, Senior Vice President and Secretary

Richard A. Luff, Corporate Controller

Addresses: 6917 Collins Avenue
Miami Beach, Florida 33141

or

U.S. Route 62 at Thomas Road
Hubbard Township
Trumbull County, Ohio 44425

- (b) (2) Name and address of any person who is a principal shareholder of the applicant:

Sharon Steel Corporation
U.S. Route 62 at Thomas Road
Hubbard Township
Trumbull County, Ohio 44425

- (b) (3) Names under which the applicant, partner or principal shareholder previously operated underground or surface coal mining activities in the United States within the 5 years preceding the date of application;

United States Fuel Company
Hiawatha, Utah

Carpenter Town Coal and Coke Company
Templeton (Armstrong County) PA 16259

- (c) Listed above
- (d) Carpenter Town Coal and Coke, Sharon Pennsylvania 16146 is a wholly owned subsidiary of Sharon Steel.

As per UMC 782.14(a) the following is a list of coal mining permits held by Carpenter Town Coal and Coke subsequent to 1983. These permits are all of those required to conduct surface and underground coal mining operations in the state of Pennsylvania (see Table II-1).

Carpenter Town Coal and Coke has not been involved in any adjudicated proceedings in the past five years. No state or federal mining permit held by Carpenter Town Coal and Coke has, in the past five years, been suspended or revoked. Also, no mining bond or similar security has been forfeited by the company in the same time period.

- (e) Surface and subsurface ownership is presented on Exhibits IV-1 and IV-2.

Exhibit IV-3 shows the mine permit boundary, future mine permit boundary, coordinates, sections, drainages, major mine features, etc. This map can be used to orient all other exhibits through the use of coordinates.

- (f) Each application shall contain the name of the proposed mine and the Mine Safety and Health Administration identification number for the mine and all sections, if any.

Existing Mines:	King No. 4	King No. 5	King No. 6
MSHA I.D. No. :	42-00098	42-01389	42-01599
Section No.s :	009	001	
	015	002	
	016	003	
	017	004	
	018		

CARPENTER TOWN COAL AND COKE COAL MINING PERMITS

Table II-1
Underground Permits

<u>Permit Number</u>	<u>Type of Permit</u>	<u>Issuing Agency</u>
Federal Identification Number 36-04595		Mine Safety and Health Administration
139-1A-2	Subsurface mining	Pennsylvania Dept. of Environmental Resources
336-M0-38	Mine drainage	Pennsyl. D.E.R.
36-04025	Prep. Plant I.D. No.	M.S.H.A
PA-0004201	NPDES	E.P.A.
0374203	Industrial Waste	Pennsyl. D.E.R.
365I18	Industrial Waste	Pennsyl. D.E.R.

Surface Permits

1) 3576BSM20	Mine drainage	Pennsyl. D.E.R.
2) 3570BSM26		
3) 3572BSM16		

<u>Permit Number</u>	<u>Type of Permit</u>	<u>Issuing Agency</u>
18410	Surface mining	Pennsyl. D.E.R.
18411		
18412		
18413		
18414		
18415		
500081	Coal refuse disposal	Pennsyl. D.E.R.

Surface Permits - Pending Applications

<u>Permit Number</u>	<u>Type of Permit</u>	<u>Issuing Agency</u>
1) 03820122	Mine drainage	Pennsyl. D.E.R.
2) 03820123		
3) 03820124		
1) 500081-A	Coal refuse disposal	Pennsyl. D.E.R.
2) 03820702		

UMC 782.13(g)

Each application shall contain a statement of all lands, interests in lands, options, or pending bids on interests held or made by the applicant for lands which are contiguous to the area to be covered by the permit.

United States Fuel Company wishes to express interest in three lease tracts located within the boundaries of the known recoverable coal resource area. The following data relative to these tracts is submitted in connection with 44FR49522.

Lease Tract No. 1

- T.15 S., R.7 E., SLM, Utah - Emery County
 - Section 25, SW1/4
 - Section 26, S1/2
 - Section 35, All
 - Section 36, W1/2
- T.16 S., R.8 E., SLM, Utah - Emery County
 - Section 1, SW1/4, S1/2 NW1/4, lots 3, 4
 - Section 2, All

Lease Tract No. 2

- T.16 S., R.8 E., SLM, Utah - Emery County
 - Section 19, E1/2 SE1/4, SE1/4 NE1/4
 - Section 20, W1/2 SW1/4, SW1/4 NW1/4, SE1/4 SW1/4
 - Section 21, S1/2 SE1/4
 - Section 28, SW1/4, W1/2, NW1/4, N1/2 N1/2 NE1/4
 - Section 29, NW1/4, SE1/4 SE1/4
 - Section 30, NE1/4 NE1/4
 - Section 33, N1/2 NW1/4, SW1/4 NW1/4

Lease Tract No. 3

- T.14 S., R.5 E., SLM, Utah - Emery County
 - Section 23, W1/2 NE1/4, NW1/4, SE1/4, SE1/4, E1/2 SW1/4
 - Section 26, E1/2
 - Section 35, N1/2 NE1/4, E1/2 W1/2, E1/2 SE1/4
 - Section 36, W1/2
- T.15 S., R.6 E., SLM, Utah - Emery County
 - Section 1, W1/2
 - Section 2, lots 1-3, SE1/4 NW1/4, NW1/4 SE1/4 E1/2 SE1/4 SE1/4 NE1/4
 - Section 11, E1/2, E1/2 W1/2
 - Section 12, W1/2 W1/2, E1/2 NW1/4, NE1/4 SW1/4

Also:

United States Fuel Company has applied for a short term, by-pass coal lease on 160 acres of federal coal in the NW1/4 of Section 20, T.15S., R.8E., SLB&M.

2.3 UMC 782.14 Compliance Information

- UMC 782.14 (a) Each application shall contain a statement of whether the applicant, any subsidiary, affiliate, or persons controlled by or under common control with the applicant:
- (1) Had a federal or state mining permit suspended or revoked in the last five years; or,
Applicant's response: No
 - (2) Forfeited a mining bond or similar security deposited in lieu of bond:
Applicant's response: No
- (b) Not required for negative responses in (a).
- (c) A listing of each violation notice received by the applicant in connection with any underground or surface coal mining activities during the three year period before the application date, for violations of any law, rule or regulation enacted pursuant to Federal law, rule or regulation or of any provision of the Act pertaining to air or water environmental protection. The application shall also contain a statement regarding each violation notice, including:
- (1) The date of issuance and identity of the issuing division, department or agency.
 - (2) A brief description of the particular violation alleged in the notice.
 - (3) The date, location and type of any administrative or judicial proceedings initiated concerning the violation, including, but not limited to, proceedings initiated by the applicant to obtain administrative or judicial review of the violations.
 - (4) The current status of the proceedings and of the violation notice.
 - (5) The actions, if any, taken by the applicant to abate the violation.

NOV #80-5-7-13

- (1) The Office of Surface Mining issued this violation on May 15, 1980.
- (2) 1 of 3 - Failure to protect undisturbed overland flows from disturbed areas.
2 of 3 - Failure to control surface runoff from a disturbed area.
3 of 3 - Failure to remove topsoil prior to surface disturbance.
- (3) No proceedings were initiated.
- (4) 2 of 3 and 3 of 3 were terminated on June 25, 1980.
1 of 3 was terminated on Sept. 17, 1980.
- (5) United States Fuel Company has corrected the above mentioned violations through the following measures: cleaned out culverts, improved topsoil handling procedures, constructed surface runoff controls and seeded previously disturbed areas.

NOV #80-5-15-13

- (1) Issued by the Office of Surface Mining on Dec. 11, 1980.
- (2) 1 of 2 - Failure to have an approved ground water monitoring plan.
2 of 2 - Failure to pass surface drainage from a disturbed area through a sediment control structure.
- (3) No legal action was taken on this violation.
- (4) The violation was terminated effective Dec. 15, 1980.
No penalty was assessed.
- (5) The company abated the violations by: submitting a plan and initiating a ground water monitoring program, and by implementing proper sediment control measures.

NOV #80-1-16-1

- (1) This violation was issued by the Division of Oil, Gas and Mining on Dec. 11, 1980 as a parallel violation to #80-5-15-13.
- (2) Failure to pass surface drainage from a disturbed area through a sediment control structure.
- (3) No proceedings were initiated in behalf of this violation.
- (4) This violation was terminated effective Dec. 15, 1980.

- (5) United States Fuel Company abated this violation by treating the drainage from this area.

NOV #81-3-9-2

- (1) This violation was issued by the Utah Division of Oil, Gas and Mining on June 30, 1981.
- (2) 1 of 2 - Failure to seal exposed underground portal in order to ensure the safety of people, livestock and wildlife.
2 of 2 - Failure to pass surface drainage through a sediment pond.
- (3) No proceedings were initiated.
- (4) 1 and 2 of 2 were terminated.
- (5) U.S. Fuel Company abated 1 of 2 by sealing the exposed portal and abated 2 of 2 by constructing a berm to divert disturbed area drainage into the sediment pond.

NOV #81-3-13-2

- (1) Issued by DOGM on July 29, 1981.
- (2) 1 of 2 - Failure to dispose of non-coal waste in a controlled manner.
2 of 2 - Failure to design, construct and maintain roads, culverts and ditches.
- (3) No proceedings were initiated.
- (4) Both violations were terminated.
- (5) 1 of 2 was abated by developing non-coal waste disposal sites as approved by a plan. 2 of 2 was abated by cleaning the culverts and grading roads.

NOV #81-1-8-7

- (1) Issued by DOGM on September 17, 1981.
- (2) 1 of 7 was vacated as required plans had already been submitted.
2 of 7 - Failure to remove, protect and save topsoil.
3 of 7 - Failure to protect topsoil from contaminants and compaction.
4 of 7 - Failure to maintain sediment control structures so as to prevent erosion.

5 of 7 was vacated because it was already covered in #2 of 7

6 of 7 - Failure to pass runoff through a sediment pond.

7 of 7 was vacated on June 28, 1982.

- (3) Violations 1 and 5 of 7 were vacated after the assessment conference held Jan. 12, 1982. Proceedings on violations 4 and 7 of 7 were initiated on March 4, 1982. Violation 4 of 7 was upheld after the presentation before the Board of Oil, Gas and Mining on June 28, 1982 while 7 of 7 was vacated for lack of evidence.
- (4) 2 of 7 was terminated on Oct. 17, 1981, 3 of 7 on Oct. 29, 1981, 4 of 7 on Oct. 8, 1981 and 6 of 7 on Oct. 9, 1981.
- (5) 1 of 7 was vacated when the requested plans were found to have already been submitted. 2 of 7 was abated by removing and stockpiling topsoil materials. 3 of 7 was abated by protecting the topsoil pile with a berm. 4 of 7 was abated by maintaining the sediment control structure. 5 of 7 was covered in #2 of 7. 6 of 7 was abated by confining disturbed area drainage to the disturbed area. 7 of 7 was vacated but prior to vacation, materials were cleaned up and placed in their proper locations.

NOV #81-3-3-1

- (1) Issued by DOGM on Oct. 29, 1981.
- (2) Failure to abate violation 81-1-8-7, 2 of 7, i.e. protect the stored topsoil.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Operator dug ditch around topsoil pile to comply with measures for protection of the pile.

NOV #81-3-20-1

- (1) Issued by DOGM on Nov. 2, 1984.
- (2) Failure to operate pursuant to approved plan.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Operator provided required plans for abatement.

NOV #81-3-22-3

- (1) Issued by DOGM on Dec. 12, 1981.
- (2) Failure to remove, save and protect topsoil.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Topsoil was removed, stockpiled and protected.

NOV #82-7-2-1

- (1) Issued by DOGM on March 6, 1982.
- (2) Failure to pass disturbed area runoff through a sediment pond.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Runoff was redirected through culverts into the existing sediment pond.

NOV #82-2-5-1

- (1) Issued by DOGM on June 3, 1982.
- (2) Failure to construct sediment pond according to approved plan.
- (3) No proceedings were initiated.
- (4) Violation was terminated when sediment pond was recompleted.
- (5) Because pond was misconstructured by contractor, operator opted to rebuild pond.

NOV #82-2-6-1

- (1) Issued by DOGM on June 10, 1982.
- (2) Failure to maintain sediment control structure.
- (3) Proceedings were initiated on November 25, 1982.
- (4) Violation was contested before the Board of Oil, Gas and Mining where it was upheld. Violation was terminated.
- (5) Operator performed required maintenance on culvert to open it up to water flow.

NOV #82-2-7-1

- (1) Issued by DOGM on Sept. 30, 1982.
- (2) Failure to prevent solids from disturbed area from entering undisturbed stream flow.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Repaired berm to prevent water from escaping disturbed area.

NOV #82-2-10-1

- (1) Issued by DOGM on Nov. 19, 1982.
- (2) Failure to pass disturbed area drainage through a sediment pond.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Operator repaired breach in ditch.

NOV #83-2-1-1

- (1) Issued by DOGM on Feb. 2, 1983.
- (2) Failure to pass disturbed area drainage through a sediment control structure.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Disturbed area runoff was retained in the area.

NOV #83-2-2-1

- (1) Issued by DOGM on April 4, 1983.
- (2) Operating without an approved plan.
- (3) No proceedings were initiated.
- (4) Violation was terminated.
- (5) Operator submitted required plans and obtained the necessary permission.

NOV #83-4-6-2

- (1) Issued by DOGM on June 1, 1983 - violation 1 of 2.
 - (2) Failure to maintain sediment control measures.
 - (3) No proceedings were initiated.
 - (4) Violation was terminated.
 - (5) Operator repaired breached diversion ditch.
- (1) Issued by DOGM on June 1, 1983 - violation 2 of 2.
 - (2) Failure to construct a temporary diversion for bypass drainage.
 - (3) No proceedings were initiated.
 - (4) Violations were terminated.
 - (5) Operator installed culverted bypass system.

NOV #83-4-9-2

- (1) Violation 1 of 2 as issued by DOGM and received by the operator on Aug. 9, 1983.
- (2) 1 of 2 - Failure to maintain diversions to prevent suspended solid contributions to undisturbed drainage.
- (3) No proceedings were initiated.
- (4) Violations were terminated.
- (5) 1 of 2 - Operator repaired breached diversion ditch.
2 of 2 - Energy dissipator and culvert was installed as per approved plan.

NOV #84-4-5-3

- (1) 1, 2 and 3 of 3 were issued by DOGM on Feb. 2, 1984.
- (2) 1 of 3 - Failure to mine in accordance with an approved interim permit.
2 of 3 - Failure to mine in accordance with an approved interim permit.
3 of 3 - Failure to have sediment pond certified after construction.
- (3) No legal proceedings have been initiated.
- (4) All three violations have been abated.

- (5) 1 of 3 - Actions which caused violation to be issued were ceased.
2 of 3 - Actions which caused violation to be issued were ceased. These were the same circumstances that had initiated violation 1 of 3.
3 of 3 - Sediment ponds were inspected and certified.

A complete listing of MSHA violation notices issued to United States Fuel Company for the three year period prior to the mine plan submittal is included in Appendix II-3 for violations received between March 1978 and March 1981. This comprises all the other violations received other than from OSM and DOGM.

Violations issued for surface non-compliance by state and federal agencies are more detailed due to their greater relevance to the focus of the permit application review.

There are no administrative or judicial proceedings currently proceeding with regard to any, including MSHA, of the past violations.

Action has been taken by the company to abate past MSHA violations by restoring safe working conditions and remedying problem situations and areas.

2.4 UMC 782.15 Right of Entry and Operation Information

UMC 782.15 (a) Each application shall contain a description of the documents upon which the applicant bases his or her legal right to enter and begin underground coal mining activities in the permit area and whether that right is the subject of pending litigation. The description shall identify those documents by type and date of execution, identify the specific lands to which the document pertains, and explain the legal rights claimed by the applicant.

Revised Appendix II-1 presents information regarding U.S. Fuel's ownership or leasehold interest. These categories are shown on revised Exhibits IV-1 and IV-2. The legend of Exhibit IV-1 identifies all contiguous lessors and provides an address where they may be contacted.

(b) For underground coal mining activities where the associated surface operations involve the surface mining of coal and the private mineral estate to be mined has been severed from the private surface estate, the application shall also provide, for lands to be affected by those operations within the permit area.

All surface operations are located on fee lands, further no surface mining of coal is anticipated.

2.5 UMC 782.16 Relationship to Areas Designated Unsuitable For Mining

UMC 782.16 (a) Each application shall contain a statement of available information on whether the proposed permit area is within an area designated unsuitable for surface effects of underground coal mining activities under 30CFR 764 and 765 and UMC 764 and 765, study for designation in an administrative proceeding initiated or under those Parts.

According to DOGM (W. Hedberg, Personal Communication, 13 October 1983), there are no administrative proceedings occurring at this time to designate as unsuitable for mining any property within the proposed permit areas. (See Appendix II-2).

- (b) If an applicant claims the exemption in UMC 786.19 (d) (2), the application shall contain information supporting the applicant's assertion that it made substantial legal and financial commitments before January 4, 1977, concerning the proposed underground mining activities.

No exemption claimed.

- (c) If an applicant proposes to conduct or locate surface operations or facilities within 300 feet of an occupied dwelling, the application shall include the waiver of the owner of the dwelling as required in UMC 761.12 (e).

All occupied dwellings within 300 feet of any proposed mining operations are owned by U.S. Fuel Company. Therefore, no waiver will be required.

2.6 UMC 782.17 Permit Term Information

UMC 782.17 (a) Each application shall state the anticipated or actual starting and termination date of each phase of the underground coal mining activities and the anticipated number of acres of surface lands to be affected, and the horizontal and vertical extent of proposed underground mine workings, for each phase of mining and over the total life of the permit.

Table III-5 below presents the required information. The vertical extent of mine workings are limited to the relationships of coal seams and is depicted in Exhibits VI-6A and VI-6B.

UMC 782.17

Table III-5

Mining Methods and Estimated Productivity

<u>Mine</u>	<u>Seam</u>	<u>Mining Methods</u>	<u>Production Date</u>	<u>Termination Date</u>	<u>Estimated Productivity</u>
King 4	B	Continuous Miner Room and Pillar	Operating	2004	700,000 Tons/Year
King 4	A	Continuous Miner Room and Pillar	Operating	2014	200,000 Tons/Year
King 5	B	Continuous Miner Room and Pillar	Operating	2000	250,000 Tons/Year
King 5	A	Longwall and Room and Pillar	2000	2004	450,000 Tons/Year
King 6	Hiawatha	Continuous Miner Room and Pillar	1981	2005	384,000 Tons/Year

(b) If the applicant proposes to conduct the underground coal mining activities in excess of five years, the application shall contain the information needed for the showing required under UMC 786.25 (a).

U.S. Fuel Company is applying for a five year permit term although the application is full and complete for varying longer terms. Amendments to the permit are expected to be made during the course of the permit term.

2.7 UMC 782.18 Personal Injury and Property Damage Insurance

A copy of the company's current Certificate of Liability Insurance as filed with the Utah DOGM is attached in Appendix II-4.

2.8 UMC 800, 805, 806 Proposed Performance Bond

Cost estimates for reclamation of North Fork, South Fork, Middle Fork and the Hiawatha Processing Plant and Loadout Facility are presented in table form. (See Tables III-10, III-11, III-12 and III-13).

TABLE III-10 (Revised June, 1983)
 COST ESTIMATE FOR RECLAMATION
 MIDDLE FORK MINING OPERATIONS

Total Acres = 24

DESCRIPTION	EQUIPMENT*	QUANTITY	UNIT	UNIT PRICE	EQUIPMENT		MAN HOURS		TOTAL
					QUANTITY	UNIT PRICE	QUANTITY	UNIT PRICE	
Mobalization	Flatbed tractor				60	Hrs. 95.00			\$ 5,700
Remove Structures	Laborer						480	Hrs. 25.00	
	Flatbed Tractor Crane				160 80	Hrs. 95.00 60.00			\$ 32,000
Regrading	D-9 Dozer 225 Backhoe	107,000	Yards	0.40/Yd.	80	Hrs. 80.00			\$ 49,200
Place Topsoil	14G Patrol w/Ripper				40	Hrs. 70.00			
	966 Loader				40	Hrs. 80.00			\$ 6,000
Seeding & Planting	Hydroseeder	6	Acres	2,000/Acre					(Cost Includes Materials)
	Range Drill	18	Acres	1,200/Acre					(Cost Includes Materials)
Supervision	3/4 Ton Pickup	160	Hrs.	32.00/Hr.					\$ 5,120
Postmining Monitoring & Maint.	20%								\$ 26,324
Miscellaneous Expenses	20%								\$ 31,589
*Equipment Costs Include Operator's Wages									
									TOTAL COST
									<u>\$189,533</u>

Assumptions:

- | | | |
|---|---|--|
| <p>a) These cost are essentially based on USF's completely halting mining operations, reclamation commencing and 1983 dollars.</p> <p>b) Surface facilities will be salvaged and removed. Foundations will be broken up & disposed of in abandoned mine openings prior to sealing.</p> <p>c) No removal of buried water or sewer lines.</p> | <p>d) Roadways to mine portals and USF's office buildings at Hiawatha will not be removed or reclaimed, they will remain for access.</p> <p>e) No disposal of toxic wastes is necessary.</p> <p>f) Mine yards and other facilities constructed prior to the Act have not stockpiled topsoil. The best available material on or near the sites will be used for reclamation.</p> | <p>g) No hydraulic mine seal is necessary.</p> <p>h) The costs are based on engineering judgement and past experience.</p> |
|---|---|--|

$$\frac{\$189,533}{24} = \$7,897/\text{Acre}$$

TABLE III-11 (Revised June, 1983)
 COST ESTIMATE FOR RECLAMATION
 NORTH FORK MINING OPERATIONS

Total Acres = 2

DESCRIPTION	EQUIPMENT*	QUANTITY	UNIT	UNIT PRICE	EQUIPMENT		MAN HOURS		TOTAL
					QUANTITY	UNIT PRICE	QUANTITY	UNIT PRICE	
Mobalization	Flatbed tractor				16	Hrs. 95.00			\$ 1,520
Remove Structures				NONE					
Regrading	D-9 Dozer	2,857	Yards	0.35/Yd.					\$ 1,000
Place Topsoil	14-G Patrol w/Ripper End Dump Truck				16	Hrs. 70.00			\$ 2,880
					32	Hrs. 55.00			
Seeding & Planging	Hydroseeder	2	Acres	2000.00/Acre	(Cost Includes Materials)				\$ 4,000
Supervision	3/4 Ton Pickup	16	Hrs.	32.00/Hr.					\$ 512
Postmining Monitoring & Maint.		160	Hrs.	32.00/Hr.					\$ 5,120
Miscellaneous Expenses	20%								\$ 3,006
TOTAL COST									<u>\$ 18,038</u>

*Equipment Costs Include Operator's Wages

Assumptions:

- a) These cost are essentially based on USF's completely halting mining operations, reclamation commencing and 1983 dollars.
- b) Surface facilities will be salvaged and removed. Foundations will be broken up & disposed of in abandoned mine openings prior to sealing.
- c) No removal of buried water or sewer lines.
- d) Roadways to mine portals and USF's office buildings at Hiawatha will not be removed or reclaimed, they will remain for access.
- e) No disposal of toxic wastes is necessary.
- f) Mine yards and other facilities constructed prior to the Act have not stockpiled topsoil. The best available material on or near the sites will be used for reclamation.
- g) No hydraulic mine seal is necessary.
- h) The costs are based on engineering.

$$\frac{\$18,038}{2 \text{ Acres}} = \$9,010/\text{Acres}$$

TABLE III-12 (Revised June, 1983)
 COST ESTIMATE FOR RECLAMATION
 SOUTH FORK MINING OPERATIONS

Total Acres = 14

DESCRIPTION	EQUIPMENT*	QUANTITY	UNIT	UNIT PRICE	EQUIPMENT		MAN HOURS		TOTAL
					QUANTITY	UNIT PRICE	QUANTITY	UNIT PRICE	
Mobalization	Flatbed Tractor				60	Hrs. 95.00			\$ 5,700
Remove Structures	Laborers				120	Hrs. 95.00	240	Hrs. 25.00	
	Flatbed Tractor Crane				40	Hrs. 60.00			\$ 19,800
Regrading	D-9 Dozer 225 Backhoe	80,000	Yards	0.35/Yd.	60	Hrs. 80.00			\$ 32,800 -
Place Topsoil	14-G Patrol w/Ripper 966 Loader				40	Hrs. 70.00			
					40	Hrs. 80.00			\$ 6,000
Seeding & Planting	Hydroseeder Range Drill	10	Acres	2,000/Acre	(Cost Includes Materials)				
		4	Acres	1,200/Acre	(Cost Includes Materials)				\$ 24,800
Supervision	3/4 Ton Pickup	120	Hrs.	32.00/Hr.					\$ 3,840
Postmining Monitoring & Maint.							400	Hrs. 32.00	\$ 12,800
Miscellaneous Expenses	20%								\$ 21,148

*Equipment Costs Include Operator's Wages

TOTAL COST \$126,888

Assumptions:

- | | | |
|--|---|--|
| <p>a) These cost are essentially based on USF's completely halting mining operations, reclamation commencing and 1983 dollars.</p> <p>b) Surface facilities will be salvaged and removed. Foundations will be broken up & disposed of in abandoned mine openings prior to sealing.</p> <p>c) No removal of buried water sewer lines.</p> | <p>d) Roadways to mine portals and USF's office buildings at Hiawatha will not be removed or reclaimed, they will remain for access.</p> <p>e) No disposal of toxic wastes is necessary.</p> <p>f) Mine yards and other facilities constructed prior to the Act have not stockpiled topsoil. The best available material on or near the sites will be used for reclamation.</p> | <p>g) No hydraulic mine seal is necessary.</p> <p>h) The costs are based on engineering judgement and past experience.</p> |
|--|---|--|

$\frac{\$126,888}{14 \text{ Acres}} = \$9,063/\text{Acre}$

TABLE III-13 (Revised June, 1983)
 COST ESTIMATE FOR RECLAMATION
 HIAWATHA PROCESSING PLANT AND LOADOUT FACILITY

Total Acres = 220

DESCRIPTION	EQUIPMENT*	QUANTITY	UNIT	UNIT PRICE	EQUIPMENT		MAN HOURS		TOTAL
					QUANTITY	UNIT PRICE	QUANTITY	UNIT PRICE	
Mobalization	Flatbed Tractor				80	Hrs. 95.00			\$ 7,600
Remove Structures	Laborers				320	Hrs. 95.00	960	Hrs. 25.00	\$ 64,000
	Flatbed Tractor Crane				160	Hrs. 60.00			
Regrading	D-9 Dozer 651 Scraper	1,034,000	Yards	.30/Yd.	480	Hrs. 125.00			\$370,200
Place Topsoil	14-G Patrol 651 Scraper	150,000	Yards	.30/Yd.	240	Hrs. 70.00			\$ 61,800
Seeding & Planting	Hydroseeder	40	Acres	2,000/Acre					\$296,000
	Range Drill	180	Acres	1,200/Acre					
Supervision	3/4 Ton Pickup	480	Hrs.	32.00/Hr.					\$ 15,360
Postmining Monitoring & Maint.							800	Hrs. 32.00	\$ 25,600
Miscellaneous Expenses	20%								\$168,112
*Equipment Costs Include Operators Wages					TOTAL PRICE		<u>\$1,008,672</u>		

Assumptions:

- | | | |
|---|---|---|
| <p>a) These cost are essentially based on USF's completely halting mining operations, reclamation commencing and 1983 dollars.</p> <p>b) Surface facilities will be salvaged and removed. Foundations will be broken up & disposed of in abandoned mine openings prior to sealing.</p> <p>c) No removal of buried water or sewer lines.</p> | <p>d) Roadways to mine portals and USF's office buildings at Hiawatha will not be removed or reclaimed, they will remain for access.</p> <p>e) No disposal of toxic wastes is necessary.</p> <p>f) Mine yards and other facilities constructed prior to the Act have not stockpiled topsoil. The best available material on or near the sites will be used for reclamation.</p> | <p>g) No hydraulic mine seal is necessary.</p> <p>h) The costs are based on engineering.</p> <p style="text-align: right;"><u>\$1,008,672</u> = \$4,585/Acres
220 Acres</p> |
|---|---|---|

2.9 UMC 782.19 Identification of Other Licenses and Permits

A listing of Licenses and Permits identifies those issued to U.S. Fuel Company by various government agencies. The list is compiled under Table II-2.

An NPDES discharge permit (UT-00023-94) has been issued by the Environmental Protection Agency and certified for compliance with applicable State water quality standards by the Utah Division of Environmental Health. A copy of the permit, showing the number and location of discharge points, is included in this application. A copy of the State certification letter is included.

The State Division of Environmental Health inspects U.S. Fuel Company's facilities for compliance with PSD requirements on a regular basis. A letter verifying this compliance is included in this application.

Right of way permits exist for Utah Railway haulage facilities, Utah Power and Light power lines and Mountain Bell buried telephone cables. Special use permits and leases are issued by the Forest Service and the Bureau of Land Management for livestock grazing on lands where the surface is owned by the Federal Government.

Table II-2

UMC 782.19 Identification of Other Licences and Permits

Permit	Permitting Agency	Statute
1. NPDES Permit No. UT-0023094	U.S. Environmental Protec- tion Agency Region VIII 1860 Lincoln Street Denver, Colorado 80295	Permit Granted 10/17/80
2. Water Supply Facility No Identification Number	Utah Division of Environmental Health 150 West North Temple Salt Lake City, Utah 84110	Facilities Approved 3/17/80
3. Sedimentation Ponds No Identification Number	Utah Division of Water Rights 1636 West North Temple Salt Lake City, Utah 84116	Ponds Approved 10/16/79
4. Refuse Piles and Slurry Impoundments No Identification Number	U.S. Army Corps Engineers 125 South State Salt Lake City, Utah 84111	Permit Granted Under Section 404 WPCA of 1972 (see appended document)
5. USGS Conservation Division Mining Plan No Identification Number	U.S. Geological Survey 8426 Federal Building 125 South State Salt Lake City, Utah 84111	Approved 11/22/78
6. King IV Roof Control Plan Identification Number 42-00098	Coal Mine Safety and Health Box 25367 Denver, Colorado 80225	Approved 4/25/79
King IV Ventilation Plan Identification Number 42-00098	Coal Mine Safety and Health Box 25367 Denver, Colorado 80225	Approved 3/20/80
King V Roof Control Plan No Identification Number 42-01389	Coal Mine Safety and Health Box 25367 Denver, Colorado 80225	Approved 5/5/80
King V Ventilation Plan Identification Number 42-01389	Coal Mine Safety and Health Box 25367 Denver, Colorado 80225	Approved 9/6/79

Table II-2

UMC 782.19 Identification of Other Licences and Permits
(continued)

Permit	Permitting Agency	Statute
Refuse Piles and Slurry Impoundment Stability Identification No. 1211-UT-9-0001 1211-UT-9-0002 1211-UT-9-0003 1211-UT-9-0004 1211-UT-9-0005 1211-UT-9-0007	Coal Mine Safety and Health Box 25367 Denver, Colorado 80225	Approved 1976
King VI Compliance Permits	Coal Mine Safety and Health Box 25367 Denver, Colorado 80225	Approved Jan 83



STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

Marv H. Maxell, Ph.D., Acting Director
Room 474 801-533-6121

James O. Mason, M.D., Dr.P.H.
Executive Director
801-533-6111

533-6146
September 15, 1982

DIVISIONS

Community Health Services
Environmental Health
Family Health Services
Health Care Financing

OFFICES

Administrative Services
Community Health Nursing
Management Planning
Medical Examiner
State Health Laboratory

Mr. Steven Durham
Regional Administrator
Environmental Protection Agency
Region VIII (8E)
1860 Lincoln Street, Suite 103
Denver, CO 80295

RE: NPDES Permit Certification
United States Fuel Company
King Mines
Permit No. UT-0023094

ATTENTION: Pat Godsil, Chief
Compliance Branch
Water Management Division

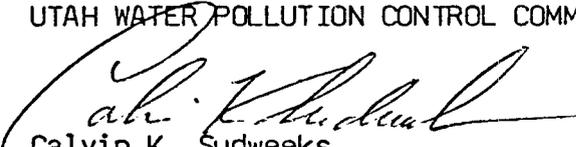
Dear Mr. Durham:

From our review of the above referenced draft permit and public notice dated August 11, 1982, it is hereby certified that the proposed conditions to be imposed for said permit should result in compliance with applicable State water quality standards.

It is further certified that to the best of our knowledge no other applicable effluent limitation or other limitation under Section 208e, 301, 302, 303, 306 and 307 of the Federal Water Pollution Control Act, as amended (33 U.S.C. 466 et. seq.) presently exist.

Sincerely,

UTAH WATER POLLUTION CONTROL COMMITTEE


Calvin K. Sudweeks
Executive Secretary

SRM:laf
cc: ✓ United State Fuel Company
Southeastern District Health Dept.
Southeastern Utah AOG

1239-5

Permit No.: UT-0023094 MI RENEWAL

Effective Date: Date of Issuance*

Expiration Date: June 30, 1987

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended (33 U.S.C. 1251 et. seq.) (hereinafter referred to as "the Act"),

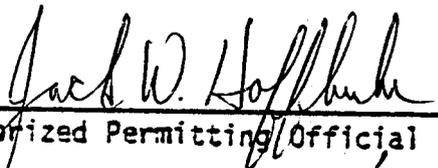
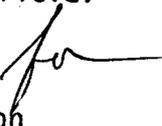
United States Fuel Company, King Mines,

is authorized by the United States Environmental Protection Agency,

to discharge from a facility located at Section 8, Township 16 South, Range 8 East, Emery County and in Sections 19, 26, 27, 29, 32, 34, and 35, Township 15 South, Range 8 East, Carbon County,

to receiving waters named Cedar Creek, a tributary of Huntington Creek and Miller Creek, a tributary of the Price River,

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III, hereof.

 Authorized Permitting Official	<u>11-3-82</u> Date
Max H. Dodson Acting Director Water Management Division Title	

*Thirty (30) days after the date of receipt of this permit by the Applicant.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Active Mining Operations)

1. During the period beginning immediately and lasting through June 30, 1987, the permittee is authorized to discharge from all point sources associated with active mining operations indicated on the area maps submitted and approved pursuant to Part III, A.1. Such discharges shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATION a/</u>			<u>MONITORING REQUIREMENTS</u>	
	<u>Daily Average</u>	<u>7-Day Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow - M ³ /Day, GPD	N/A	N/A	N/A	Monthly	Measured <u>a/</u> <u>c/</u>
Total Suspended Solids	25 mg/l	35 mg/l	70 mg/l	Monthly	Grab
Total Iron	N/A	N/A	2.0 mg/l <u>b/</u>	Monthly	Grab
Total Dissolved Solids	720 mg/l	N/A	N/A	Monthly	Grab

Oil and Grease shall not exceed 10 mg/l and shall be monitored monthly by a grab sample.

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored monthly by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

There shall be no discharge of sanitary wastes.

2. See Schedule of Compliance. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at any point which is representative of each discharge prior to its mixing with the receiving stream and as indicated by the solid triangles on the current area maps submitted pursuant to Part III, A.1.

a/ See Part I., C.3.

b/ If any Iron analysis exceeds this limitation, the State of Utah and the permittee shall review the actions necessary to achieve compliance with the limitation and the continued appropriateness of the limitation. In no event shall the discharge exceed a daily maximum limitation for Total Iron of seven (7) milligrams per liter.

c/ For the intermittent discharges, the duration of the discharge shall be reported.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (Active Mining Operations)
(Continued)

3. Any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period less than or equal to the 10-year, 24-hour, precipitation event (or snowmelt of equivalent volume) shall comply with the following limitation instead of the Total Suspended Solids limitations contained in Part I.A.1.:

<u>Effluent Characteristic</u>	<u>Daily Maximum</u>
Settleable Solids	0.5 ml/l

Settleable Solids shall be monitored weekly during periods of precipitation.

4. Any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period greater than the 10-year, 24-hour, precipitation event (or snowmelt of equivalent volume) shall comply with the following limitations instead of the otherwise applicable limitations:

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units.

5. The alternate limitations provided in Parts I.A.3. and I.A.4., shall apply only if:
- The treatment facility is designed, constructed, operated and maintained to contain at a minimum the volume of water which would drain into the treatment facility during the 10-year, 24-hour, precipitation event (or snowmelt of equivalent volume);
 - The treatment facility is designed, constructed, operated and maintained to consistently achieve the effluent limitations set forth in Part I.A.1., during periods of no precipitation (or snowmelt).
6. The operator shall have the burden of proof that the preceding conditions have been met in order to qualify for the alternate limitations in Parts I.A.3. and I.A.4. The alternate limitations in Parts I.A.3. and I.A.4. shall not apply to treatment systems that treat underground mine water only.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:
 - a. If the permittee has not previously submitted Area Map(s) described in Part III, A., such Area Map(s) shall be submitted within 30 days of the effective date of this permit.
 - b. Revised Area Map(s) as described in Part III, A., must be submitted 60 days prior to commencement of the discharge.
2. No later than 14 calendar days following a date identified in the above Schedule of Compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice to the permit issuing authority of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

C. MONITORING AND REPORTING

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.
2. Monitoring results obtained during the previous 3 month(s) shall be summarized for each discharge and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on January 28, 1983. Duplicate signed copies of these and all other reports required herein, (as required by Part II, A.9.) shall be submitted to the Regional Administrator and the Director of the State of Utah Water Pollution Agency at the following addresses:

U.S. Environmental Protection Agency
Suite 103, 1860 Lincoln Street
Denver, Colorado 80295
Attention: Water Management Division
Compliance Branch

Utah Department of Health
Division of Environmental Health
Bureau of Water Pollution Control
P.O. Box 2500
Salt Lake City, Utah 84110

3. Definitions

- a. The "daily average" means the arithmetic average of all the daily determinations made during a calendar month. Daily determinations made using a composite sample shall be the value of the composite sample. When grab samples are used, the daily determination shall be the arithmetic average of all the samples collected during the calendar day. Daily determinations of mass shall be determined by the daily determination of concentration multiplied by the volume of discharge for that day.
- b. The "daily maximum" concentration means the daily determination of concentration for any calendar day.
- c. Measurement of flow shall be performed by a direct flow measurement technique such as a flow meter, weir, or gauge.
- d. A "composite sample" shall consist of at least three (3) grab samples which is representative of the discharge.
- e. "Active mining area" means the areas on and beneath land used or disturbed in activity related to the extraction, removal, or recovery of coal from its natural deposits. This term excludes coal preparation plants, coal preparation plant associated areas and post-mining areas.
- f. The "7-day average" shall be determined by the arithmetic mean of a minimum of three (3) consecutive samples taken on separate days in a 7-day period (minimum total of three (3) samples).

C. MONITORING AND REPORTING (Continued)

3. Definitions (Continued)

- g. "Reclamation area" means the surface area of a coal mine which has been returned to required contour and on which revegetation (specifically, seeding or planting) work has commenced.
- h. The term "10-year, 24-hour, precipitation event" shall mean the maximum 24-hour precipitation event with a probable reoccurrence interval of once in 10 years as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, and subsequent amendments or equivalent regional or rainfall probability information developed therefrom.
- i. For additional definitions, see Part III, B.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(h) of the Act, under which such procedures may be required.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and,
- e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form (EPA No. 3320-1). Such increased frequency shall also be indicated.

C. MONITORING AND REPORTING (Continued)

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer, if requested by the Regional Administrator or the State of Utah water pollution control agency.

A. MANGEMENT REQUIREMENTS**1. Adverse Impact**

The permittee shall take all reasonable steps to minimize any adverse impact to the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Regional Administrator and the State of Utah with the following information, in writing, within five (5) days of learning or being advised of such condition:

- a. A description of the discharge and cause of noncompliance; and,
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge. This written submission shall not be considered as excusing or justifying the failure to comply with the effluent limitations.

3. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

A. MANAGEMENT REQUIREMENTS (Continued)

4. Facilities Operation

- a. The permittee shall at all times maintain in good working order and operate as efficiently as possible, all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.
- b. Dilution water shall not be added to comply with effluent requirements.

5. Bypass of Treatment Facilities

a. Definitions

- (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b. Bypass Not Exceeding Limitations

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs c and d of this Section.

c. Notice

(1) Anticipated Bypass

If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least ten (10) days before the date of the bypass.

(2) Unanticipated Bypass

The permittee shall submit notice of an unanticipated bypass as required in Part II, A.2.

A. MANAGEMENT REQUIREMENTS (Continued)

5. Bypass of Treatment Facilities (Continued)

d. Prohibition of Bypass

(1) Bypass is prohibited and the Director may take enforcement action against a permittee for bypass, unless:

(a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This conditions is not satisfied if the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,

(c) The permittee submitted notices as required under paragraph c of this Section.

(2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraph d.(1) of this Section.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of waste waters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the United States.

7. Power Failures

No later than 30 days after the effective date of this permit, the permittee shall certify in writing to the permit issuing authority either that:

a. An alternative mechanical or electrical power source sufficient to operate essential facilities utilized by the permittee to maintain compliance with the terms and conditions of the permit has been or will be installed or,

b. Upon reduction, loss or failure of one or more of the primary sources of electrical power to essential facilities utilized by the permittee to maintain compliance with the terms and conditions of this permit, the permittee shall halt, reduce, or otherwise control production and/or all discharges in order to maintain compliance with the terms and conditions of this permit.

A. MANAGEMENT REQUIREMENTS (Continued)

8. Delineated Discharges

Any discharge delineated in Part III (Other Requirements) (originating from operations covered by Standard Industrial Classification Codes 1211 and 1213) that commences after the effective date of this permit shall be in compliance with all effluent limitations, monitoring requirements, and other conditions contained herein upon initiation of discharge.

9. Signature Requirements

All reports or information submitted pursuant to the requirements of this permit must be signed and certified by a principal official or by a duly authorized representative of that person. Signatory regulations are established in 40 CFR 122.6.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the head of the State of Utah water pollution control agency, the Regional Administrator, and/or their authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where a regulated facility or activity is located or in which any records are required to be kept under the terms and conditions of this permit; and,
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Regional Administrator and the State of Utah water pollution control agency.

B. RESPONSIBILITIES (Continued)

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Regional Administrator and the State of Utah water pollution control agency. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or,
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, B.4. above, if a toxic effluent standard or prohibition (including any Schedule of Compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "Bypassing" (Part II, A.5.) and "Power Failures" (Part II, A.7.), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

B. RESPONSIBILITIES (Continued)**7. Oil and Hazardous Substance Liability**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulations under authority preserved by Section 510 of the Act.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

10. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

11. Reapplication

If the permittee desires to continue to discharge, he shall reapply at least one hundred eighty (180) days before this permit expires using the application forms then in use. The permittee should also reapply if he desires to maintain a permit, even though there was not a discharge from the treatment facilities during the duration of this permit.

A. OTHER REQUIREMENTS

1. General Requirements

a. Area Maps (Active Mining Operations).

- (1) Facilities which have already identified the location of each discharge need not submit an area map.
- (2) The permittee shall submit revised Area Map(s) to show any changes, corrections, or other modifications or adjustments of the location of the point source discharges. The purpose of this requirement is to assure that the Regional Administrator and the State of Utah are kept fully advised as to the current location of such discharges.
- (3) The revised Area Map(s) shall be submitted in the form specified below and shall be made from USGS topographical maps (7.5 or 15-minute series) or other appropriate sources as approved by the Regional Administrator or his designee. Each revised Area Map shall be 8½ inches by 11 inches and shall be in black and white suitable to produce readable copies by rapid printing methods (Xerox, Dennison, Offset printing, etc.) or as approved by the Regional Administrator or his designee. Where additional 8½-inch by 11-inch maps are required to show the area of operation, they shall be numbered and a key shall be shown on the first map. The first map section shall have the company name, mine/job name, address, and NPDES number clearly printed thereon. Also, one line of latitude and one line of longitude shall be marked on each map section. The Area Map(s) shall delineate the following, using the graphics as indicated:

- (a) Existing Area of Operation  (Solid Outline)
- (b) Existing point source  (Solid Triangle)
- (c) The projected area of operation for the next five years  (Dashed Outline)
- (d) Project point source for the next five years  (Opened Triangle)

A. OTHER REQUIREMENTS

1. General Requirements (Continued)

(e) The monitoring reports must indicate the active-inactive status of all discharge points which are listed on the current area maps. These discharge points shall be assigned numbers 001, 002, 003, etc.

b. Monitoring of a discharge may be terminated if either:

(1) Sufficient data has been accumulated to show to the satisfaction of the Regional Administrator or his designee that the untreated discharge from an area where active mining has ceased will meet the limitations herein; or,

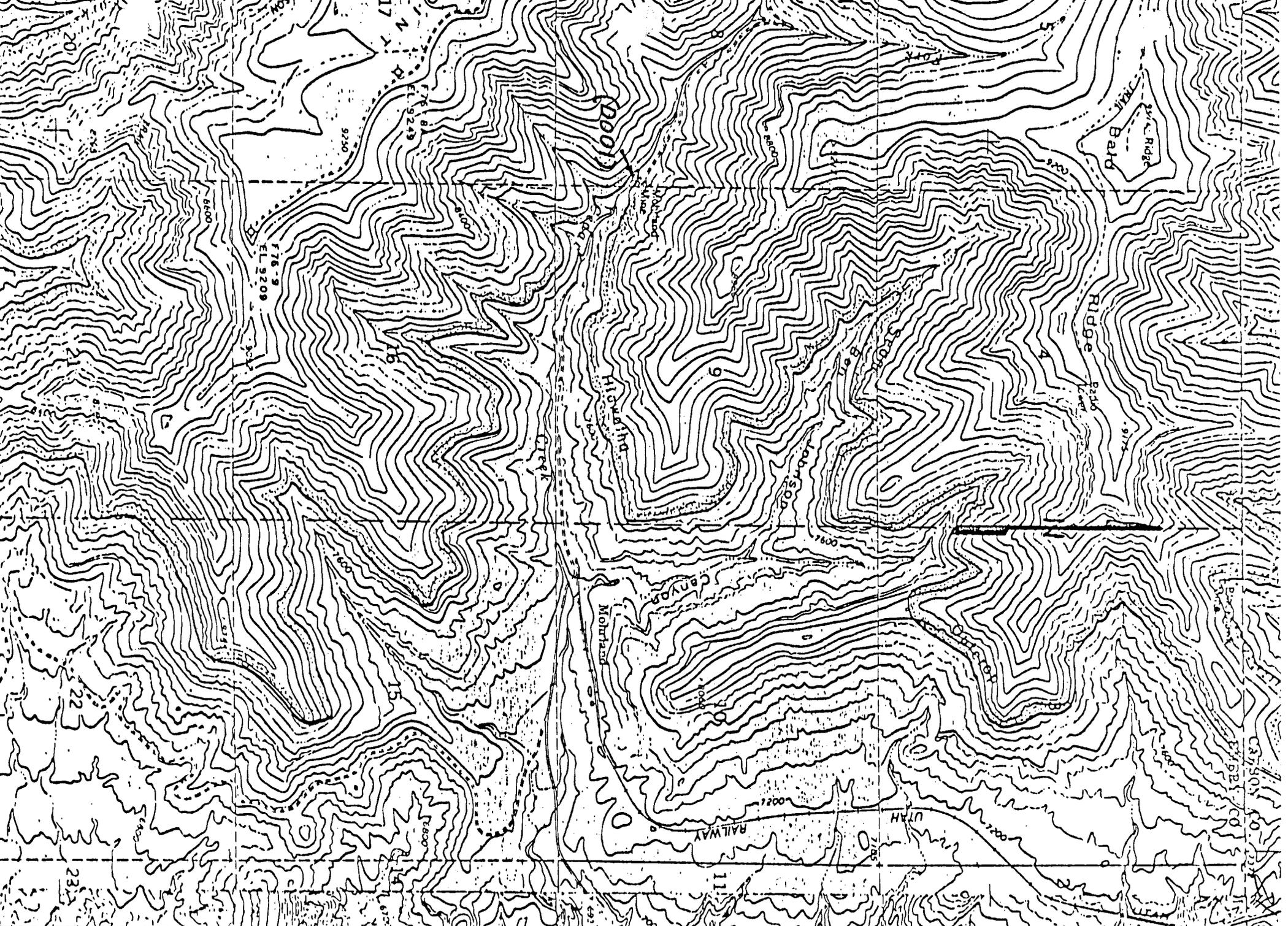
(2) The discharge emanates from an area on which the State of Utah has released the grading bond or has taken other similar action.

B. ADDITIONAL DEFINITIONS

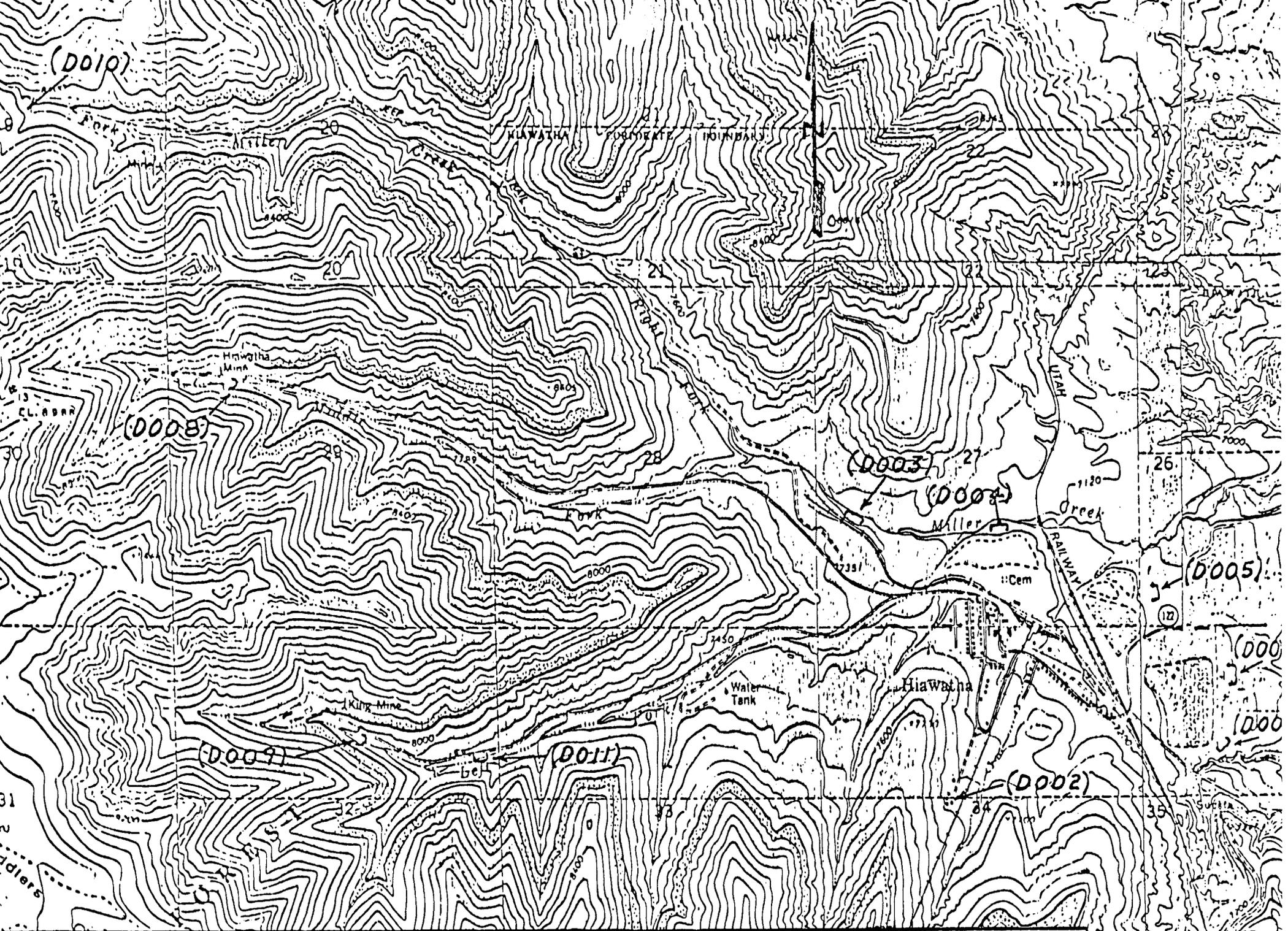
1. The term "coal preparation plant" means a facility where coal is crushed, screened, sized, cleaned, dried, or otherwise prepared and loaded for transit to a consuming facility.
2. The term "coal preparation plant associated areas" means the coal preparation plant yards, immediate access roads, coal refuse piles, and coal storage piles and facilities.
3. The term "settleable solids" is that matter measured by the volumetric method specified below:

The following procedure is used to determine settleable solids:

Fill an Imhoff cone to the one-liter mark with a thoroughly mixed sample. Allow to settle undisturbed for 45 minutes. Gently stir along the inside surface of the cone with a stirring rod. Allow to settle undisturbed for 15 minutes longer. Record the volume of settled material in the cone as milliliters per liter. Where a separation of settleable and floating material occurs, do not include the floating material in the reading.



SCALE: 1" = 2000'	DATE	UNITED STATES FUEL CO. HIAWATHA, UTAH	DISCHARGE POINTS NPDES PERMIT UT-0023094
R.N: R.L.	6-7-83		



SCALE: 1" = 2000'
 DATE: 6-7-83
 R.L.

UNITED STATES FUEL CO.
 HIAWATHA, UTAH

DISCHARGE POINTS
 NPDES PERMIT UT-0023094

Scott M. Matheson
Governor



STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

Marv H. Maxell, Ph.D., Acting Director
Room 474 801-533-6121

James O. Mason, M.D., Dr.P.H.
Executive Director
801-533-6111

REGULATIONS:

UMC - 784.26 + 817.95 & 782.17
OSM -

January 20, 1983
533-6108

DIVISIONS

Community Health Services
Environmental Health
Family Health Services
Health Care Financing

OFFICES

Administrative Services
Community Health Nursing
Management Planning
Medical Examiner
State Health Laboratory

Charles J. Jahne
Sharon Steel Corporation
136 East South Temple
Salt Lake City, Utah 84111

RE: U.S. Fuel, Co., Hiawatha, Utah
Site, Compliance to UACR

Dear Mr. Jahne:

This letter is in response to your letter dated January 5, 1983, requesting verification of compliance of the U.S. Fuel Company's Hiawatha site with the Utah Air Conservation Regulations (UACR).

The State Bureau of Air Quality did not find the Hiawatha site in violation of the UACR during the last inspection on August 17, 1982. The plant was evaluated for visible emissions from point sources, fugitive sources, and area sources as required by Sections 3.1 (5/22/81 approval order) and 4.5 (fugitive dust) of the UACR.

The Hiawatha site is inspected on a regular basis by personnel from this office.

Sincerely,

Brent C. Bradford
Director
Bureau of Air Quality

LRM:wml
cc: O, G & M (Jim Smith)
2248

2.10 UMC 782.20 Identification of Location of Public
Office For Filing of Application

Each application shall identify, by name and address, the public office where the applicant will simultaneously file a copy of the application for public inspection under UMC 786.11(d).

Permit filed with County Recorder for public inspection and comment at the following locations:

Carbon County Recorder
Carbon County Courthouse Building
Price, Utah 84501 (801) 637-2543

Emery County Recorder
Emery County Courthouse
Castle Dale, Utah 84513

2.11 UMC 782.21 Newspaper Advertisement and Proof of Publication

A copy of the newspaper advertisement of the application and proof of publication of the advertisement shall be filed with the Division and made a part of the complete application not later than four weeks after the last date of publication required under UMC 786.11(a). See Appendix II-5.

RECEIVED

APR 1 1935

DIVISION OF
OIL, GAS & MINING

APPENDIX II-1

U.S. Fuel Company Property Ownership

United States Fuel Company uses the terms- patent, conveyance, warranty deed and quit claim deed as legal descriptions of property ownership and acquisition with their conventional definitions. These words are defined, in legal dictionaries. One that contains their definitions is Black's Law Dictionary, fifth edition, West Publishing Company, St. Paul, MN, 1979. The terms with their respective definitions are listed below.

conveyance - In its most common usage, transfer of title to land from one person, or class of persons, to another by deed. Term may also include assignment, lease, mortgage or encumbrance of land. An instrument by which some estate or interest in lands is transferred from one person to another; such as deed, mortgage, etc.

patent - A grant of some privilege, property, or authority, made by the government or sovereign of a country to one or more individuals.

The instrument by which a state or government grants public lands to an individual.

quitclaim deed - A deed of conveyance operating by way of release; that is, intended to pass any title, interest, or claim which the grantor may have in the premises, but not professing that such title is valid, nor containing any warranty or covenants for title. Under the law of some states the grantor warrants in such deed that neither he nor anyone claiming under him has encumbered the property and that he will defend the title against defects arising under and through him, but as to no others.

warranty deed - Deed in which grantor warrants good clear title. The usual covenants of title are warranties of seisin, quiet enjoyment, right to convey, freedom from encumbrances and defense of title as to all claims.

APPENDIX II-1

UNITED STATES FUEL COMPANY
PROPERTY OWNERSHIP

Land Subdivision	1	Area (Acres)				Legal Document	Date of Document	Recorded Book Page	Remarks
		2	3	4	5				
<u>T.15S., R.8E., SLBM</u>							Carbon County		
Section 28: All			640			Patent 1013339	3/8/28	6A - 125	Subsurface-U.S.A.
Section 29: NE1/4 NE1/4			40			Patent 1013339	3/8/28	6A - 125	Subsurface-U.S.A.
S1/2 NE1/4									
NW1/4 NE1/4	120					Conveyance	1/3/16	3D - 257	
NW1/4, S1/2	480					Conveyance	1/3/16	3D - 257	
Section 30: All	631					Conveyance	1/3/16	3D - 257	
Section 31: N1/2				316		Conveyance	1/3/16	3D - 257	Coal-U.S.A.
S1/2				316		Patent 1013339	3/8/28	6A - 125	Subsurface-U.S.A.
Section 32: SE1/4 NE1/4	40					Patent 12257	4/22/20	2A - 251	
N1/2 NE1/4									
SW1/4 NE1/4	120					Quit Claim Deed	5/6/23	3H - 427	
NW1/4, S1/2	480					Quit Claim Deed	5/6/23	3H - 427	
Section 33: N1/2			320			Patent 1013339	3/8/28	6A - 125	
S1/2	320					Conveyance	1/3/16	3D - 260	
Section 34: N1/2 NE1/4									
N1/2 NW1/4	160					Conveyance	1/3/16	3D - 260	
NE1/4 SW1/4									
SW1/4 NW1/4	80					Warranty Deed	12/1/17	5F - 309	
SW1/4 NE1/4									
NW1/4 SE1/4	80					Patent 12499	10/14/20	2A - 252	
SE1/4 NW1/4	40					Patent 12499	10/14/20	2A - 252	
SE1/4 NE1/4	40					Patent 11722	10/20/19	2A - 226	

APPENDIX II-1

UNITED STATES FUEL COMPANY
PROPERTY OWNERSHIP

Land Subdivision	1	Area (Acres)				Legal Document	Date of Document	Recorded Book Page	Remarks
		2	3	4	5				
							Carbon		
							County		
<u>T.15S., R.8E., SLBM</u>									
Section 17:									
S1/2 NE1/4,									
SE1/4			240			Patent 1013339	3/8/28	6A - 125	Subsurface-U.S.A.
E1/2 SW1/4			80			Patent 1013339	3/8/28	6A - 125	Subsurface-U.S.A.
S1/2 NW1/4,									
NW1/4 SW1/4	10		110			*Conveyance	1/3/16	3D - 257	Coal-Plateau Mining
SW1/4 SW1/4	40					Conveyance	1/3/16	3D - 257	
Section 18: All	631					Conveyance	1/3/16	3D - 257	
Section 19: All	631					Conveyance	1/3/16	3D - 257	
Section 20:									
E1/2, NW1/4			480			Patent 1013339	3/8/28	6A - 125	Subsurface-U.S.A.
N1/2 SW1/4			80			Patent 1013339	3/8/28	6A - 125	Subsurface-U.S.A.
S1/2 SW1/4	80					Conveyance	1/3/16	3D - 257	
Section 21: All			640			Patent 1013339	3/8/28	6A - 125	Subsurface U.S.A.
Section 26: W1/2 SW1/4	80					Warranty Deed	6/21/76	161 - 112	
Section 27:									
N1/2 SE1/4									
N1/2 SW1/4	160					Conveyance	1/3/16	3D - 257	
SW1/4 NW1/4									
SW1/4 SW1/4	80					Conveyance	1/3/16	3D - 257	
S1/2 SE1/4									
SE1/4 SW1/4	120					Conveyance	1/3/16	3D - 260	

*This 120 acres was acquired by U.S. Fuels in 1916. The coal rights were subsequently sold to Plateau Mining in 1944, other than that portion of the NW1/4 of the SW1/4 lying south of Miller Creek (approximately 10 acres).

APPENDIX II-1

UNITED STATES FUEL COMPANY
PROPERTY OWNERSHIP

Land Subdivision	1	Area (Acres)				Legal Document	Date of Document	Recorded	Remarks
		2	3	4	5			Book Page	
							Carbon County		
<u>T.15S., R.8E., SLBM</u>									
				80		Patent 10835	7/17/18	2A - 226	Coal-U.S.A.
					40	Warranty Deed	6/21/76	161 - 112	
				40		Patent 1114115	6/4/42	6A - 267	Subsurface-U.S.A.
Section 35:									
					120	Warranty Deed	6/21/76	161 - 112	
					40	Patent 11723	10/20/19	2A - 226	
					40	Conveyance	1/3/16	3D - 260	
							Carbon County		
<u>T.15S., R.7E., SLBM</u>									
Section 13:					320	Lease U-058261	2/1/61	B.L.M.	All-U.S.A.
Section 24:					480	Lease U-058261	2/1/61	B.L.M.	
					120	Lease U-058261	2/1/61	B.L.M.	
					40	Conveyance	1/3/16	3D - 257	Surface-U.S.A.
Section 25:					160	Conveyance	1/3/16	3D - 257	Surface-U.S.A.
					160	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.
					80	Lease U-026583	2/1/61	B.L.M.	All-U.S.A.
Section 36:									
					160	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.
					160	Lease SL-025431	2/8/63	B.L.M.	All-U.S.A.

APPENDIX II-1

UNITED STATES FUEL COMPANY
PROPERTY OWNERSHIP

Land Subdivision	1	Area (Acres)				Legal Document	Date of Document	Recorded	Remarks
		2	3	4	5			Book Page	
								<u>Emery</u> <u>County</u>	
<u>T.16S., R.8E., SLBM</u>									
Section 3:	W1/2	361				Conveyance	1/3/16	A5 - 318	
Section 4:	Lots 1,2,3								
	4,5,6,7	201				Conveyance	1/3/16	A5 - 318	
	Lots 8,9								
	10,11,12	201				Conveyance	1/3/16	A5 - 318	
	SW1/4	160				Conveyance	1/3/16	A5 - 315	
	SE1/4	160				Warranty Deed	5/31/19	B9 - 205	
Section 5:	Lots 1,5,8								
	12			140		Patent 11804	11/26/19	A2 - 50	Coal-U.S.A.
	Lots 2,3,4								
	6,7,9,10,11		261			Patent 11804	11/26/19	A2 - 50	Coal-U.S.A.
	S1/2		320			Patent 11803	11/26/19	A2 - 51	Coal-U.S.A.
Section 6:	Lots 1,2,3,4,								
	5,6,7,8,9			291		Patent 11804	11/26/19	A2 - 50	Coal-U.S.A.
	NE1/4 SE1/4		40			Patent 11803	11/26/19	A2 - 50	Coal-U.S.A.
	Lots 10,11,12			127		Patent 11804	11/26/19	A2 - 50	Coal-U.S.A.
	W1/2 SE1/4,								
	SE1/4 SE1/4			120		Patent 11803	11/26/19	A2 - 51	Coal-U.S.A.
	SW1/4			173		Patent 11803	11/26/19	A2 - 51	Coal-U.S.A.
Section 7:	NE1/4 NE1/4		40			Patent 11803	11/26/19	A2 - 51	Coal-U.S.A.
	SE1/4 NE1/4								
	W1/2 NE1/4			120		Patent 11803	11/26/19	A2 - 51	Coal-U.S.A.
	SE1/4, NW1/4			334		Patent 11803	11/26/19	A2 - 51	Coal-U.S.A.
	SW1/4			173		Patent 11803	11/26/19	A2 - 51	Coal-U.S.A.

APPENDIX II-1

UNITED STATES FUEL COMPANY
PROPERTY OWNERSHIP

Land Subdivision	1	Area (Acres)				Legal Document	Date of Document	Recorded Book Page	Remarks
		2	3	4	5				
<u>Emery County</u>									
<u>T.16S., R.8E., SLBM</u>									
Section 8:									
N1/2, SE1/4	480				Conveyance	1/3/16	A5 - 315		
SE1/4 SW1/4,	120				Conveyance	1/3/16	A5 - 315		
N1/2 SW1/4									
SW1/4 SW1/4			40		Patent 1145347	7/16/54	23 - 69	Subsurface-U.S.A.	
Section 9:									
W1/2, W1/2						1/3/16	A5 - 315		
NE1/4	400				Conveyance				
W1/2 SE1/4,									
SE1/4 SE1/4	120				Conveyance	1/3/16	A5 - 315		
E1/2 NE1/4,									
NE1/4 SE1/4			120		Patent 1013339	3/8/28	A2 - 317	Subsurface-U.S.A.	
Section 10:									
S1/2 SE1/4,									
SE1/4 SW1/4	120				Patent 11715	10/18/19	A2 - 19		
SW1/4 SW1/4	40				Patent 11716	10/18/19	A2 - 20		
Section 11:									
SW1/4 SW1/4	40				Patent 11715	10/18/19	A1 - 19		
SE1/4 SW1/4	40				Patent 11719	10/20/19	A2 - 21		
Section 15:									
SE1/4 SW1/4,									
W1/2 SW1/4	120				Conveyance	1/3/16	A5 - 315		
SW1/4 NE1/4,	40				Quit Claim Deed	7/16/18	A1 - 358		
SE1/4 NW1/4			40		Quit Claim Deed	7/16/18	A1 - 358	Coal-U.S.A.	
N1/2 NE1/4,									
N1/2 NW1/4	160				Patent 11717	10/18/19	A2 - 23		
SW1/4 NW1/4			40		Patent 1126838	7/22/49	A2 - 435	Subsurface-U.S.	
Section 16: All	640				Conveyance	1/3/16	A5 - 315		

APPENDIX II-1

UNITED STATES FUEL COMPANY
PROPERTY OWNERSHIP

Land Subdivision	1	Area (Acres)				Legal Document	Date of Document	Recorded Book Page	Remarks
		2	3	4	5				
								<u>Emery County</u>	
<u>T.16S., R.8E., SLBM</u>									
Section 17: All	640					Conveyance	1/3/16	A5 - 315	
Section 18: Lots 1,2,3				140		Patent 11807	11/26/19	A2 - 54	Coal-U.S.A.
E1/2, E1/2 W1/2				480		Patent 11807	11/26/19	A2 - 54	Coal-U.S.A.
Lot 4					47	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A..
Section 19: N1/2 N1/2		167				Conveyance	1/3/16	A5 - 315	Surface-U.S.A.
SW1/4 NE1/4,									
NW1/4 SE1/4					80	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.
Section 20: NE1/4,									
NE1/4 SE1/4		200				Conveyance	1/3/16	A5 - 315	Surface-U.S.A.
N1/2 NW1/4		80				Conveyance	1/3/16	A5 - 315	Surface-U.S.A.
SE1/4 NW1/4,									
NE1/4 SW1/4					80	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.
Section 21: NE1/4,									
NW1/4 SE1/4	200					Conveyance	1/3/16	A5 - 315	
E1/2 NW1/4	80					Conveyance	1/3/16	A5 - 315	
W1/2 NW1/4,									
N1/2 SW1/4		160				Conveyance	1/3/16	A5 - 315	Surface-U.S.A.
NE1/4 SE1/4			40			Patent 1013339	3/8/28	A2 - 317	Subsurface-U.S.A.
Section 22: NW1/4 NW1/4	40					Conveyance	1/3/16	A5 - 315	

APPENDIX II-1

UNITED STATES FUEL COMPANY
PROPERTY OWNERSHIP

(PERMIT)	Area (Acres)					Legal Document	Date of Document	Recorded Book Page	Remarks
<u>Land Subdivision</u>	1	2	3	4	5				
								<u>Emery</u>	
								<u>County</u>	
<u>T.16S., R.8E., SLBM</u>									
Section 1:	EL/2	EL/2			155	Lease SL-205431	2/8/63	B.L.M.	All-U.S.A.
	WL/2	EL/2			155	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.
Section 12:	EL/2	NE1/4			80	Lease SL-025431	2/8/63	B.L.M.	All-U.S.A.
	WL/2	NE1/4, SE1/4			240	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.
	EL/2	WL/2			160	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.
Section 13:	EL/2, EL/2	WL/2			480	Lease SL-069985	11/1/69	B.L.M.	All-U.S.A.

The United States Fuel Company owns or leases coal or surface rights in some 19,211 contiguous acres in Carbon and Emery Counties, Utah. Of this total, 15,490 acres are comprised of coal lands either owned or leased by the company. Of this total acreage, approximately 5,700 acres are Federal Leasehold.

Federal Leasehold	
Permit	2,543
Future Permit	2,184
TOTAL	<u>5,727</u>

DESIGNATION OF TITLE

	<u>Acres</u>
1. Surface-Fee Title/Coal Rights-Fee Title	9,026
2. Surface Rights-None/Coal Rights-Fee Title	807
3. Surface Rights-Fee Title/Coal Rights-None	3,651
4. Surface-Fee Title/Coal Rights-Leased	2,770
5. Surface Rights-None/Coal Rights-Leased	<u>2,957</u>
Total	19,211

**See Page II-13A of first ACR response regarding other leaseholders.

TOTALS

	<u>Permit</u>	<u>Future Permit</u>	<u>Totals</u>
Category 1	6,426	2,600	9,026
Category 2	200	607	807
Category 3	3,491	160	3,651
Category 4	1,063	1,707	2,770
Category 5	<u>1,480</u>	<u>1,477</u>	<u>2,957</u>
	12,660	6,551	19,211

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~~2.12~~ Appendices

II-2 Areas Designated Unsuitable for
Mining Correspondence

APPENDIX II-2

Areas Designated Unsuuitable For Mining

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Important: Remove Appendix II-2 contents from the March
1981 Volume I Permit Application and place
here. Discard old cover page.

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DIVISION OF
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SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director
NATURAL RESOURCES

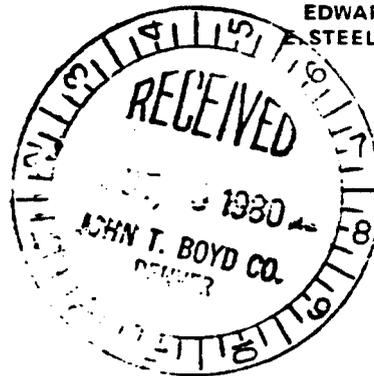
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JÜVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
STEELE McINTYRE

CLEON H. FEIGHT
Director

October 2, 1980



Mr. Michael Meenan
Environmental Engineer
John T. Boyd Company
1860 Lincoln Street
Suite 1028
Denver, Colorado 80295

RE: U. S. Fuel Company
Hiawatha Complex
ACT/007/011
Carbon County, Utah

Dear Mr. Meenan:

In response to your letter dated September 23, 1980, regarding areas designated unsuitable for mining; to date, this office has received no determination, application or petition of unsuitability for mining at or near U. S. Fuel Company's Hiawatha Complex in Carbon County, Utah.

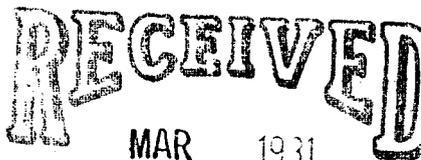
Should such a condition arise in the future, U. S. Fuel Company shall promptly be notified.

Sincerely,

JAMES W. SMITH, JR.
COORDINATOR OF MINED
LAND DEVELOPMENT

cc: Bob Eccli, U. S. Fuel Company

JWS/btm



DIVISION OF
OIL, GAS & MINING

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Manti-LaSal National Forest - Price Ranger District
10 North Carbon Avenue #2
Price, Utah 84501



John T. Boyd Company
1860 Lincoln Street
Suite 1028
Denver, Colorado 80295
ATTENTION: Michael K. Meenan

Dear Mr. Meenan:

We are in receipt of your letter of 8/27/80 requesting information on U.S. Fuel Company's property in Carbon and Emery Counties, Utah. As we understand it, your request entails any available information regarding unsuitability criteria or "restrictions" that might apply to the subject property as indicated by your accompanying map.

After researching available data at our disposal, the only unsuitability criterion that might apply would be #17 covering municipal watersheds. The leased land (lease nos. SL 069985, SL 025431 and U 026583) under Forest Service jurisdiction falls into the Price River and Huntington Canyon drainages. Both drainages serve municipal water supplies. Since these watersheds cover such a large area of coal bearing lands owned by Federal, State and private interests, a determination has yet to be made relative to the applicability of criterion #17.

Regarding further "restrictions" not covered under the unsuitability criteria these would be handled on a more specific basis through the environmental assessment process.

One additional item that we might mention is the fact that the U.S. Fuel property boundary, as shown on your map, includes unleased Federal coal lands under Forest Service administration. Specifically, these lands include Section 19, N $\frac{1}{2}$ N $\frac{1}{2}$, Section 20; N $\frac{1}{2}$ N $\frac{1}{2}$, S $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$; Section 21, W $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, T. 16 S., R. 8 E., SLM.

We hope that the above adequately complies with your request. If you have any further questions, please don't hesitate to contact us.

Ira W. Hatch
IRA W. HATCH
District Ranger

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Appendix II - 3

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APPENDIX II-3

MSHA Violation Notices

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Important: Remove listing of MSHA violations from the July 1983 ACR Response and insert here. The list is entitled "Monthly Inspections and Violations" and is divided into ten columns across the page. This 32 page listing is located at the end of Chapter II.

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DIVISION OF
OIL, GAS & MINING

MONTH OF:

MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP, UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
1 3-27-78	4	10 East				245848		75.1106-3(2)	3-27-78
2 " "	4	Belt conveyor				245849		75.515	3-27-78
3 " "	4	9 East				245850		75.1106-3(3)	3-27-78
4 3-28-78	4	10 West				245853		75.1100-3	3-28-78
5 " "	4	10 West				245851		75.1722 a	3-28-78
6 " "	4	10 West				245852		75.1722 a	3-28-78
7 3-29-78	4	10 West				245856		75.400	3-29-78
8 3-29-78	4	10 West				245854		75.400	3-29-78
9 3-29-78	4	10 West				245855		75.514	3-29-78
10 4-05-78	4	intake air				246001		75.312	3-2-78
11 4-06-78	4	11 West				245857		75.606	4-06-78
12 4-06-78	4	11 West				245858		75.514	4-06-78
13 4-10-78	4	11 West				245860		75.515	4-10-78
14 4-10-78	4	11 West				245859		75.503	4-11-78
15 " "	5	portal				245885		75.1711-3	4-11-78
16 4-11-78	5	see Name Miner				245887		75.1710-1 e	4-11-78
17 4-11-78	5	" "				245886		75.503	4-11-78
18 " "	4	11 West				245861		75.400	4-11-78
19 4-12-78	4	9 West				245862		75.514	4-12-78
20 4-13-78	4	10 West				245863		75.807	4-13-78
21 4-13-78	4	10 West				245864		75.400	4-13-78
22 4-17-78	4	7 North				245865		75.1805	4-17-78
23 4-17-78	4	10 West				245866		75.511	4-17-78
24 4-17-78	4	10 West				245868		75.503	4-17-78
25 4-18-78	4	7 North				245870		75.512	4-19-78
26 4-18-78	4	#5 locomotive				245869		77.601	4-18-78
27 4-19-78	4	" "				245871		77.601	4-19-78
28 4-19-78	4	10 West				245872		75.1704	4-24-78
29 4-26-78	4	#3 Room				245876		75.316	4-26-78
30 4-24-78	4	#2 Room				245873		75.520	4-25-78
31 " "	4	7 North				245874		75.604	4-24-78
32 " "	4	" "				245875		75.1710-1 e	4-26-78
33 5-01-78	4	" "				245877		75.400	5-01-78
34 " "	4	10 West				245878		75.1003 a	5-01-78
35 5-02-78	4	9 East				246261		75.604 b	5-2-78
36									
37									

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MONTH OF: MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
5-02-78	4	9 East				245880		75.400	5-02-78
5-02-78	4	9 East				246262		75.503	5-02-78
5-03-78	4	11 West				245879		75.403	5-03-78
5-03-78	4	10 West				246263		75.403	5-03-78
5-08-78	4	#3 Room				246265		75.400	5-08-78
5-08-78	4	oxy. cylinder				246266		75.1106-2 b	5-08-78
5-09-78	4	#3 Room				246267		75.316	5-09-78
5-09-78	4	#3 Room				246268		75.1722 a	5-11-78
5-10-78	4	7 North				246269		75.1100-3	5-10-78
5-11-78	4	7 North				246270		75.1403-61	5-11-78
5-12-78	4	respir. dust				9945510		70.100-b	6-20-78
5-15-78	4	surf. - Warehouse				246274		77.505	5-15-78
5-17-78	4	#3 Room				246275		75.403	5-17-78
" "	4	record book				246276		75.1806	5-18-78
" "	4	7 North				246277		75.200	5-18-78
6-12-78	4	10 West				246313		75.313 1	6-12-78
" "	4	#3 belt conveyor				246315		75.1722 c	6-12-78
" "	4	" "				246316		75.400	6-12-78
" "	4	#3 Room				246317		75.516	6-12-78
" "	4	belt conveyor				246314		75.200	6-13-78
" "	4	" "				246318		75.514	6-12-78
" "	4	#3 Room				246319		75.316	6-14-78
" "	4	" "				246320		75.400	6-13-78
6-02-78	4	dust samples	viol. issued in error			9945525		70.250 a	8-23-78
6-13-78	4	9 West				246483		75.1405-6-b-1	6-13-78
" "	4	9 East				246482		75.516 2 c	6-13-78
6-13-78	4	9 East				246481		75.503	6-13-78
6-13-78	4	power center				245218		75.901 a	6-13-78
6-13-78	5	shuttle car				245219		75.503	6-13-78
6-14-78	4	seals - K1				246484		75.303	6-14-78
6-15-78	4	10 West				246485		75.400	6-15-78
6-15-78	4	power center				246486		75.807	6-15-78
6-19-78	4	record book				246487		77.502	6-20-78
6-19-78	Surf	Shop - welding				246488		77.408	6-19-78
6-19-78	Surf.	Tipple #5 belt				246489		77.202	6-19-78
6-19-78	Surf	Tipple #1 belt				246490		" "	6-19-78

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MONTH OF: MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
6-19-78	Surf.	Prep. plant - power conductor				246491		77.505	6-20-78
6-19-78	Surf.	Prep. plant				246492		77.202	6-19-78
6-19-78	Surf.	Respir. dust				9945550		70-100b	9-26-78
6-20-78	Surf	Resin plant				246493		77-505	6-20-78
" "	Surf	" "				246494		77-400	6-20-78
" "	Surf.	guard rail				246496		77-1405K	9-11-78
6-30-78	Surf.	Dust samples				9945570		70.250	8-24-78
7-13-78	4	Respir. dust				9945582		70.100 b	8-18-78
7-07-78	4	10 West				246548		75.200	7-13-78
8-9-78	Surf	substation				245568		77.704 9	8-11-78
8-9-78	Surf	" "				245569		77.501	8-11-78
8-23-78	4	Respir. dust				9945595		70.100 b	9-7-78
8-24-78	4	" "				9945596		70.100 b	9-22-78
9-05-78	4	Escape way				246763		75.1704	9-07-78
" "	4	#2 belt				246762		75.400	9-06-78
" "	4	#1 belt				246761		75.400	9-05-78
9-05-78	4	belt entry				245386		75.400	9-05-78
9-06-78	5	#27 shuttlecar				246720		75.604 b	9-07-78
" "	4	9 East				246765		75.200	9-06-78
9-07-78	5	#001 marking section				246862		75.200	9-07-78
" "	5	" "				246864		" "	9-08-78
" "	5	" "				246867		75.307	9-07-78
" "	5	" "				246863		75.200	9-07-78
" "	5	" "				246866		" "	9-08-78
" "	5	" "				246868		" "	9-07-78
" "	5	" "				246865		" "	9-08-78
9-08-78	5	" "				246870		109 a	9-08-78
9-11-78	4	belt conveyors				246607		75.1103-1	9-14-78
9-11-78	4	7 North				246608		75.516	9-11-78
9-11-78	4	7 North				246609		75.1718	" "
9-11-78	4	7 North				246610		75.1704	9-13-78
" "	4	#3 room shuttlecar				246770		75.503	9-11-78
" "	4	#5 belt conveyor				244786		75.400	" "
" "	4	#3 Room				246769		75.1714 26	" "
" "	4	" "				246768		75.503	" "
" "	4	" "				246767		75.1106 3 a	" "

MONTH OF: MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
1 10-16-78	4	Resp. dust				9945635		70.100 b	11-02-78
2 10-24-78	4	" "				9945651		70.250 b	12-01-78
3 10-16-78	5	Joy shuttle car				247110		75.503	10-23-78
4 10-18-78	5	recorder book				247111		75.305	" "
5 " "	5	belt conveyor				247112		75.1100 2 b	" "
6 10-27-78	4	#3 Room				245571		75.701	10-27-78
7 " "	4	" "				245570		75.1719 1d	4-21-80
8 " "	4	" "				245572		75.701	11-02-78
9 11-01-78	4	#3 Room				245573		75.902	" "
10 " "	4	^{3 Room} 10 West				245574		75.602	" "
11 11-08-78	4	10 West				245575		75.524	11-13-78
12 11-21-78	4	11 West				245576		75.524	11-27-78
13 11-21-78	4	" "				245577		75.601	11-21-78
14 11-15-78	4	Respir Dust				9945671		70.100 b	12-06-78
15 12-01-78	4	" "				9945691		70.250 a	12-15-78
16 11-28-78	4	#8 Conveyor drive				245580		75.1722 b	12-01-78
17 " "	4	Belt conveyors				245579		75.1103 4	12-07-78
18 12-04-78	4	3 North				247402		75.400	12-04-78
19 12-07-78	4	10 West				247403		75.400	12-07-78
20 12-13-78	4	Belt conveyor				247252		" "	12-13-78
21 12-15-78	4	11 East				247253		75.1100 2e2	12-15-78
22 " "	4	#11 Belt Conveyor				247254		75.1105	12-15-78
23 12-12-78	4	4 West				247404		75.404	12-13-78
24 12-13-78	4	" "				247405		75.405	" "
25 " "	4	Contin Miner				247406		75.1100 3	12-14-78
26 " "	4	power cable				247407		75.516	12-13-78
27 12-15-78	4	#4 belt conveyor				247255		75.400	12-15-78
28 12-18-78	4	9 East				247408		" "	12-18-78
29 " "	4	9 East				247409		75.503	" "
30 " "	4	" "				247521		75.527	12-29-78
31 12-19-78	Surf.	Loadout Belt Tunnel				247377		75.1104	12-20-78
32 " "	Surf.	" "				247398		77.202	" "
33 " "	Surf.	Coal trucks				247399		77.1605 d	" "
34 12-19-78	Surf.	Tipple				247400		77.202	12-20-78
35 " "	" "	" "				247641		77.1104	" "
36 " "	" "	" "				247642		77.208 e	12-19-78
37 " "	" "	" "				247643		77.1104	12-20-78

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	RSC REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
1-16-79	Sur	M. Fork	T. Milovich	Spot	Robert	7516	1-16-79	77.208 a	1-16-79
1-16-79	5	Belt Line	" "	Reg	"	7515	1-16-79	Safeguard	1-17-79
1-16-79	5	South main	" "	"	"	7513	1-16-79	25.303 a	1-16-79
1-16-79	5	South main	" "	"	"	7512	1-16-79	25.1720 a	1-16-79
1-16-79	5	South main	" "	"	"	7514	1-16-79	25.503	1-16-79
1-17-79	5	South main	" "	"	"	7517	1-17-79	25.517	1-17-79
1-18-79	5	South main	J. Judi	Elect.	Raymond	7523	1-18-79	25.512	1-19-79
1-18-79	5	South main	" "	"	"	7524	1-18-79	25.601-1	1-19-79
1-18-79	5	South main	" "	"	"	7525	1-18-79	25.524	1-22-79
1-19-79	4	9 th East	T. Milovich	Reg.	Robert	7853	1-19-79	25.503	1-19-79
1-22-79	4	3 Room belt	" "	"	"	7519	1-22-79	25.1103-2	1-23-79
1-22-79	4	3 Room	" "	"	"	7842	1-22-79	25.400	1-22-79
1-22-79	4	" "	" "	"	"	7843	1-22-79	25.1100-3	1-23-79
1-22-79	4	#5 belt	" "	"	"	7518	1-22-79	25.400	1-23-79
1-22-79	4	10 west belt	" "	"	"	7520	1-22-79	25.400	1-22-79
1-22-79	4	3 Room belt	" "	"	"	7841	1-22-79	25.316	1-23-79
1-23-79	Sur	Bath house	" "	Spot	"	7845	1-23-79	77.604	1-23-79
1-23-79	4	10 west belt	" "	Reg	"	7846	1-23-79	25.400	1-24-79
1-24-79	4	10 west	" "	"	"	7848	1-24-79	25.1100-3	1-24-79
1-24-79	4	#7 belt	" "	"	"	7850	1-24-79	25.1722-2	1-24-79
1-24-79	4	10 west	" "	"	"	7849	1-24-79	25.400	1-24-79
1-24-79	4	10 west	" "	"	"	7847	1-24-79	25.503	1-24-79
1-24-79	4	10 west	" "	"	"	7851	1-24-79	25.517	1-24-79
1-29-79	4	9 th East	" "	"	"	7852	1-29-79	25.503	1-29-79
1-31-79	4	11 East	" "	"	"	7855	1-31-79	25.316	1-31-79
1-31-79	4	11 East	" "	"	"	7857	1-31-79	25.512	1-31-79
1-31-79	4	11 East	" "	"	"	7854	1-31-79	25.1102-1-31	1-31-79
<p>(26) Violation's Safeguard</p> <p>Surface King 47</p> <p>Surface King 5</p> <p>2 Violation's</p> <p>1 Violation's</p> <p>"Respirable dust violation"</p>									
1-15-79	4	—	McDonald	Health	—	5720	1-15-79	20.250-a	1-30-79

MONTH OF: Feb. 1979

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	KSC REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
2-1-79	4	7 th North track	T. Milovich	Reg.	Robert	9182	2-1-79	75.202	2-2-79
2-1-79	4	11 East	" "	"	"	91858	2-1-79	75.400	2-1-79
2-1-79	4	#4 belt	" "	"	"	91860	2-1-79	75.400	2-1-79
2-1-79	4	11 East	" "	"	"	91859	2-1-79	75.503	2-1-79
2-1-79	4	7 th North	" "	"	"	9181	2-1-79	75.507-1-a	2-2-79
2-5-79	4	11 East	" "	"	Ramon	9183	2-5-79	75.316	2-5-79
2-7-79	4	11 West	" "	"	Robert	9184	2-7-79	75.503	2-7-79
2-8-79	4	3 Room	" "	"	Ramon	9187	2-8-79	75.400	2-8-79
2-8-79	4	Haulage track	" "	"	"	9186	2-8-79	75.1403-6-b	2-8-79
2-8-79	4	Books	" "	"	"	9185	2-8-79	75.313-1	2-8-79
2-9-79	4	3 Room	" "	"	"	9188	2-9-79	75.1107-1-b	2-9-79
2-12-79	5	West main	J. Judi	Elect.	Craig	7526	2-12-79	75.607-1	2-12-79
2-12-79	4	#1-2 belt	T. Milovich	Reg.	Ramon	9189	2-12-79	75.400	2-12-79
2-12-79	4	#15 belt	" "	"	"	9190	2-12-79	75.515	2-12-79
2-12-79	4	#8 belt	" "	"	"	9191	2-12-79	75.516	2-12-79
2-13-79	4	3 Room	" "	"	"	9192	2-13-79	75.316	2-13-79
2-13-79	4	3 Room	" "	"	"	9193	2-13-79	75.1600	2-13-79
2-13-79	5	South Main	Al Gray	Health	Keith	5393	2-13-79	75.400	2-15-79
2-20-79	4	Haulage track	T. Milovich	Reg.	Robert	9194	2-20-79	75.1306	2-20-79
2-21-79	4	#9 belt	" "	"	Ramon	9197	2-21-79	75.400	2-21-79
2-21-79	4	11 West	" "	"	"	9195	2-21-79	75.1722-a	2-21-79
2-21-79	4	#10 belt	" "	"	"	9196	2-21-79	75.512	2-21-79
2-21-79	5	S-Main	Al Gray	Health	Keith	5394	2-21-79	70.260	3-13-79
		22 Violations			Surface			0 Violations	
					King 4			20 Violations	
					King 5			2 Violations	

~~6 months = 49 total~~

"Respirable dust violations"

2-13-79	4		McDonald	Health		5752	2-13-79	70.250-B	2-21-79
2-20-79	4		McDonald	Health		5394	2-20-79	70.100-B	3-13-79
2-8-79	4		McDonald	Health		5746	3-7-79	70.100-B	3-7-79

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	RSC REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	DATE
						NO.	DATE		
3-1-79	4	9 th East	A. Gray	Health	Reed	5395	3-1-79	75.523-1-a	3-1-79
3-5-79	4	9 th East	A. Gray	Health	Thomas	5396	3-5-79	75.503	3-7-79
3-12-79	4	#17 Belt	T. Milovich	Reg.	Madrid	9361	3-12-79	75.400	3-13-79
3-12-79	4	Trock 3 Room	" "	"	Madrid	9362	3-12-79	75.7103 <i>Surface and</i>	3-29-79
3-12-79	4	9 th East	" "	"	Madrid	9198	3-12-79	75.316	3-15-79
3-12-79	4	9 th East X	" "	"	Martinez	9199	3-12-79	75.316	3-12-79
3-12-79	4	3 Room	" "	"	Madrid	9200	3-12-79	75.316	3-12-79
3-14-79	4	11 West X	" "	"	Martinez	9363	3-14-79	75.316	3-15-79
3-14-79	4	Haulage X	" "	"	Martinez	9364	3-14-79	75.400	3-27-79
3-15-79	4	11 East X	" "	"	Martinez	9365	3-15-79	75.200	3-15-79
3-15-79	4	11 East X	" "	"	Martinez	9366	3-15-79	75.316	3-15-79
3-15-79	4	11 East X	" "	"	Martinez	9367	3-15-79	75.316	3-27-79
3-15-79	4	11 West X	A. Gray	Health	Thomas	5398	3-15-79	75.1718	3-15-79
3-19-79	4	3 Room X	" "	"	Madrid	9369	3-19-79	75.516-2-c	3-19-79
3-19-79	4	3 Room X	" "	"	Madrid	9370	3-19-79	75.1718	3-19-79
3-19-79	4	underground shop	" "	"	Madrid	9368	3-19-79	75.1720-a	3-19-79
3-20-79	4	Pilot Bone Belts	" "	"	Martinez	9371	3-20-79	75.1103-1-d	3-21-79
3-21-79	Surface	Railroad cars	" "	Sur.	Madrid	9374	3-21-79	77.1602-X	3-21-79
3-21-79	Surface	Tipple X	" "	Sur.	Madrid	9376	3-21-79	77.1710-8	3-21-79
3-21-79	Surface	Tipple X	" "	Sur.	Madrid	9372	3-21-79	77.400-C	3-22-79
3-21-79	Surface	Tipple X	" "	Sur.	Madrid	9375	3-21-79	77.400-a	3-22-79
3-21-79	Surface	Tipple X	" "	Sur.	Madrid	9373	3-21-79	77.400-C	3-22-79
3-21-79	Surface	Tipple X	" "	Sur.	Madrid	9377	3-21-79	77.400-a	3-21-79
3-22-79	5	WEST MAIN X	J. JUDY	ELECT	FILLMORE	9284	3-22-79	75.701	3-22-79
3-22-79	5	WEST MAIN X	J. JUDY	ELECT	FILLMORE	9285	3-22-79	75.902	3-23-79
3-27-79	SURFACE	TIPPLE X	T. MILOVICH	REG.	REED	9380	3-27-79	77.410	3-27-79
3-27-79	4	11 EAST X	"	REG.	MARTINEZ	9379	3-27-79	75.503	3-28-79
3-28-79	SURFACE	TIPPLE V	"	REG.	REED	9502	3-28-79	77.1607X	3-28-79
3-14-79	4	11 EAST X	A. Gray	Health	Thomas	5397	3-14-79	70.400	3-16-79

Safe
word

MONTH OF: **MAY** MONTHLY INSPECTIONS AND VIOLATIONS *John O'Laughlin*

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF. REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
✓1 5-2-79	4	3 Room Belt	Milovich	Spot	Medial	9516	5-2-79	75.403	5-2-79
✓2 5-2-79	4	3 Room Belt	" "	"	"	9517	5-2-79	75.1101-16	5-2-79
✓3 5-2-79	4	3 Room Belt	" "	"	"	9518	5-2-79	75.400	5-2-79
✓4 5-2-79	4	3 Room, Tract entry	" "	"	"	9519	5-2-79	75.316	5-2-79
✓5 5-2-79	4	3 Room	" "	"	"	9520	5-2-79	75.503	5-2-79
✓6 5-2-79	5	W-Main	A. Gray	InV	Med	9464	5-2-79	75.316	5-3-79
✓7 5-2-79	5	W-Main	" "	"	"	9465	5-2-79	75.503	5-3-79
✓8 5-3-79	4	11 East	Milovich	Spot	Polst	9521	5-3-79	75.516-2-c	5-3-79
✓9 5-3-79	4	11 East	" "	"	"	9522	5-3-79	75.516	5-3-79
✓10 5-3-79	4	11 East	" "	"	"	9523	5-3-79	75.503	5-3-79
✓11 5-7-79	4	9th East	" "	Reg.	"	9524	5-7-79	75.313-1	5-7-79
✓12 5-7-79	4	Mine	" "	"	"	9525	5-7-79	75.1702-1	5-7-79
✓13 5-7-79	4	11 East	" "	"	"	9526	5-7-79	75.202	5-7-79
✓14 5-7-79	4	11 East	" "	"	"	9527	5-7-79	75.316	5-7-79
✓15 5-7-79	4	11 East	104-6 ORDER		"	9528	5-7-79	75.315	5-7-79
✓16 5-7-79	4	11 East	" "	"	"	9529	5-7-79	75.400	5-7-79
✓17 5-7-79	4	11 East	" "	"	"	9530	5-7-79	75.503	5-7-79
✓18 5-7-79	4	11 East	" "	"	"	9531	5-7-79	75.316	5-7-79
✓19 5-8-79	4	11 East	" "	"	"	9532	5-8-79	75.512	5-8-79
✓20 5-8-79	4	11 East	SAFEGUARD		"	9534	5-8-79	75.1703-10	5-9-79
✓21 5-10-79	4	3 Room	" "	"	Medial	9535	5-10-79	75.1106-3-2	5-10-79
✓22 5-14-79	4	#10 Belt	" "	"	"	9536	5-14-79	75.400	5-14-79
✓23 5-14-79	4	11 West return	" "	"	"	9537	5-14-79	75.200	6-12-79
✓24 5-14-79	4	11 West return	" "	"	"	9538	5-14-79	75.400	5-15-79
✓25 5-14-79	4	Respirable Dust	McDonald	Dust	-	5836	5-14-79	70.2500	6-4-79
✓26 5-14-79	4	" "	" "	"	-	5837	5-14-79	70.100-b	6-13-79
✓27 5-16-79	4	#12 Belt	Milovich	Reg.	Polst	9539	5-16-79	75.400	5-16-79
✓28 5-16-79	4	11 East	" "	"	"	9540	5-16-79	75.200	5-16-79
✓29 5-16-79	4	11 East	" "	"	"	9601	5-16-79	75.1106-3-a-2	5-16-79
✓30 5-18-79	5	Respirable dust	McDonald	"	Med	5844	5-18-79	75.250-a	6-7-79
✓31 5-21-79	4	15 Belt	Milovich	"	Medial	9602	5-21-79	75.400	5-21-79
✓32 5-21-79	4	9th East	" "	"	Medial	9603	5-21-79	75.503	5-21-79
✓33 5-23-79	4	3 Room	" "	"	Medial	9604	5-23-79	75.316	5-23-79
✓34 5-23-79	4	3 Room	" "	"	"	9605	5-23-79	75.503	5-23-79
✓35 5-23-79	4	3 Room	" "	"	"	9606	5-23-79	75.200	5-23-79
✓35 5-29-79	4	11 East	" "	"	Jim	9608	5-29-79	75.1106-3-2	5-29-79
✓37 5-29-79	4	11 East	" "	"	"	9607	5-29-79	75.202	5-29-79

MONTH OF: *MAY* MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
✓ 5-31-79	4	11 East	Milovich	Reg.	Metal	9609	5-31-79	75.202	5-31-79
✓ 5-31-79	4	11 East	" "	Reg.	"	9610	5-31-79	75.516	5-31-79
✓ 5-31-79			G ^m Donald			5859	5-31-79	75-250(A)	5-31-79
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37 Violations

1 Safeguard

1 Order 104-b

MONTH OF: August MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
8-2-79	4	11 East	Lemon	AAA	Medical	X9876	8-2-79	75.202	8-2-79
8-2-79	4	" "	" "	"	"	X9877	8-2-79	75.400	8-2-79
8-2-79	4	" "	" "	"	"	X9879	8-2-79	75.400	8-2-79
8-2-79	4	" "	" "	"	"	X9981	8-2-79	75.403	8-3-79
8-2-79	4	" "	Powroznik	"	"	X9888	8-2-79	75.400	8-3-79
8-8-79	4	" "	" "	"	"	X9889	8-8-79	75.517	8-8-79
8-8-79	4	" "	" "	"	"	X9890	8-8-79	75.1105	8-8-79
8-9-79	4	11 West	" "	"	Medical	X9891	8-9-79	75.200	8-9-79
8-9-79	4	13 Belt	" "	"	"	X9892	8-9-79	75.400	8-9-79
8-13-79	4	11 West	" "	"	Medical	X9893	8-13-79	75.200	8-13-79
8-13-79	4	11 East	" "	"	"	X9894	8-13-79	75.316	8-14-79
8-13-79	4	" "	" "	"	"	X9895	8-13-79	75.503	8-13-79
8-13-79	4	" "	" "	"	"	X9896	8-13-79	75.1725	8-13-79
8-14-79	4	9 th East	Lemon	AAA	"	X9982	8-14-79	75.400	8-14-79
8-14-79	4	9 th East	" "	"	"	X9983	8-14-79	75.400	8-14-79
8-14-79	4	9 th East	" "	"	"	X9984	8-14-79	75.400	8-14-79
8-14-79	4	9 th East	" "	"	"	X9986	8-14-79	75.1718	8-14-79
8-14-79	4	11 th East	Powroznik	AAA	Medical	X9897	8-14-79	75.1105	8-15-79
8-15-79	4	9 th East	Lemon	AAA	Medical	X9987	8-15-79	75.100-3	8-15-79
8-15-79	4	3 Room	Powroznik	AAA	Medical	X9898	8-15-79	75.400	8-15-79
8-15-79	4	9 th East	Lemon	AAA	Medical	X9988	8-15-79	75.1725	8-15-79
8-16-79	5	West	" "	CAA	Conv	X9989	8-16-79	75.201-1	8-17-79
8-16-79	4	gon. mine	Powroznik	AAA	Conv	X9899	8-16-79	75.400	8-17-79
8-16-79	4	11 East	" "	AAA	Jim	X9900	8-16-79	75.601	8-16-79
8-16-79	4	13 th East	" "	AAA	Jim	X0061	8-16-79	75.604	8-16-79
8-16-79	4	11 East track	" "	AAA	Jim	X2162	8-16-79	75.1000	8-18-79
8-17-79	S	Surface	Judi	CBA	Prod	X0307	8-17-79	77.701	8-14-79
8-17-79	S	Surface	Judi	CBA	" "	X0508	8-17-79	77.502	9-7-79
8-21-79	S	Surface	Lemon	AAA	" "	X9990	8-21-79	77.1104	8-21-79
8-21-79	S	" "	" "	"	"	X9991	8-21-79	77.202	8-21-79
8-21-79	S	" "	" "	"	"	X9992	8-21-79	77.202	8-22-79
8-21-79	S	" "	" "	"	"	X9993	8-21-79	77.205-b	8-21-79
8-21-79	S	" "	" "	"	"	X9994	8-21-79	77.202	8-22-79
8-21-79	S	" "	" "	"	"	X9996	8-21-79	77.202	8-22-79
8-21-79	S	" "	" "	"	"	X9997	8-21-79	77.1104	8-22-79
8-22-79	S	" "ORDER"	" "	"	"	X9998	8-22-79	ORDER	
8-22-79	S	" "ORDER"	" "	"	"	X9999	8-22-79	ORDER	

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
10-2-79	4	#13 belt	J. Judi	CBC	Dalt	0281	10-2-79	75.901	10-3-79
10-5-79	4	Resp. dust	McDonald	DBA	Low	5955	10-5-79	71.108	10-26-79
10-5-79	4	" "	" "	"	"	5956	10-5-79	70.250	10-26-79
10-9-79	4	11 East belt	Powrozniak	AAA	Roy	0223	10-9-79	75.400	10-9-79
10-10-79	4	3 Room	" "	"	"	0225	10-10-79	75.400	10-10-79
10-10-79	4	" "	" "	"	"	0224	10-10-79	75.1725	10-11-79
10-11-79	4	9 th East	" "	"	Roy	0229	10-11-79	75.604	10-11-79
10-11-79	4	3 Room	" "	"	"	0227	10-11-79	75.202	10-11-79
10-11-79	4	9 th East	" "	"	"	0226	10-11-79	75.1105	10-11-79
10-11-79	4	" "	" "	"	"	0228	10-11-79	75.400	10-11-79
10-16-79	4	11 West	P. Freese	"	"	0142	10-16-79	75.516	10-16-79
10-16-79	4	" "	Powrozniak	"	"	0230	10-16-79	75.400	10-16-79
10-18-79	4	9 th East	" "	AAA	Roy	0231	10-18-79	75.202	10-18-79
10-18-79	4	" "	P. Freese	AAA	"	0144	10-18-79	75.1722	10-18-79
10-18-79	4	" "	Powrozniak	AAA	"	0232	10-18-79	75.400	10-18-79
10-18-79	4	" "	P. Freese	AAA	"	0143	10-18-79	75.400	10-18-79
10-23-79	4	#2 belt	Powrozniak	AAA	"	0234	10-23-79	75.400	10-23-79
10-23-79	4	#1 belt	" "	"	"	0233	10-23-79	75.400	10-23-79
10-24-79	4	11 th East	" "	"	Gary	0237	10-24-79	75.400	10-24-79
10-24-79	4	11 East	" "	"	Gary	0238	10-24-79	75.503	10-24-79
10-24-79	4	Surface area	" "	"	Gary	0235	10-24-79	77.4101	10-24-79
10-24-79	4	11 East	" "	"	Gary	0236	10-24-79	75.400	10-24-79
10-25-79	4	11 West	" "	"	Roy	0239	10-25-79	75.1105	10-25-79
10-29-79	4	11 West	" "	"	Roy	0241	10-29-79	75.400	10-29-79
10-29-79	4	11 West	" "	"	"	0240	10-29-79	75.400	10-29-79
10-31-79	4	10 Dip 3 Room	" "	"	"	0244	10-31-79	75.400	10-31-79
10-31-79	4	3 Room	" "	"	"	0242	10-31-79	75.1105	10-31-79
10-31-79	4	3 Room	" "	"	"	0243	10-31-79	75.517	10-31-79
10-31-79	4	11 East	P. Freese	"	Gary	0145	10-31-79	75.807	10-31-79

MONTH OF: January 1980 MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
1-3-80	4	11 th West	Powroznik	AAA	Roy	0256	1-3-80	75.606	1-3-80
1-3-80	4	" "	" "	"	"	0257	1-3-80	75.202	1-3-80
1-3-80	4	#9 Belt	" "	"	"	0258	1-3-80	75.1101-1-a	1-3-80
1-4-80	5	Respirable Dust personal	McDonald	FFA	Escol	6029	1-4-80	70.250-b	1-25-80
1-4-80	4	" "	" "	FFA	"	6031	1-4-80	70.250-a	1-25-80
1-7-80	4	11 th East	Powroznik	AAA	Roy	0259	1-7-80	75.1704-2-b	1-7-80
1-7-80	4	11 East Junction	" "	"	"	0260	1-7-80	75.1707	1-18-80
1-8-80	4	3 Room	" "	"	"	0481	1-8-80	75.200	1-8-80
1-8-80	4	" "	" "	"	"	0482	1-8-80	75.202	1-8-80
1-9-80	4	1 st Left entry #3 belt	" "	"	"	0483	1-9-80	75.400	1-9-80
1-9-80	5	1 st West	Lemon	"	"	0267	1-9-80	75.503	1-9-80
1-9-80	5	" "	" "	"	"	0265	1-9-80	75.403	1-9-80
1-10-80	4	11 East	Powroznik	"	Jim	0484	1-10-80	75.517	1-10-80
1-10-80	4	" "	" "	"	"	0485	1-10-80	75.516	1-10-80
1-18-80	4	11 East Junction	" "	"	Roy	0487	1-18-80	75.1707	104-B ORDER
1-22-80	4	11 East	" "	"	"	0488	1-22-80	75.200	1-22-80
1-22-80	4	" "	" "	"	"	0489	1-22-80	75.316	1-22-80
1-23-80	4	Respirable Dust Intake	McDonald	CFB	Loa	6071	1-23-80	70.100-c	2-7-80
1-23-80	4	10 th West	Powroznik	AAA	Roy	0490	1-23-80	75.400	1-24-80
1-28-80	4	Seals	" "	"	"	0491	1-28-80	75.303	1-29-80
1-29-80	4	9 th West parting	" "	"	"	0492	1-29-80	75.200	1-29-80
1-29-80	4	6 th North	" "	"	"	0493	1-29-80	75.305	1-30-80
1-30-80	4	3 Room	" "	"	"	0494	1-30-80	75.517	1-30-80
1-30-80	4	" "	" "	"	"	0495	1-30-80	75.962	1-30-80
1-31-80	4	Material train (cable)	" "	"	"	0496	1-31-80	77.604	1-31-80

MONTH OF: Feb. MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
2-5-80	S	Surface	Powroznik	AFB	Cory	0497	2-5-80	77.1607-v	2-12-80
2-8-80	4	Respirable Dust	McDonald	FFA	Escol	6062	2-8-80	70.250-A	2-29-80
2-14-80	4	11 West belt	Powroznik	AAA	Roy	0498	2-14-80	75.400	2-14-80
2-28-80	S	Surface	" "	"	"	0581	2-28-80	77.1104	2-28-80
2-28-80	S	Surface	" "	"	"	0500	2-28-80	77.205	2-28-80
2-25-80	S	SURFACE	" "	"	Roy	0499	2-25-80	77.1110	2-25-80
	5	0 Violations							

MONTH OF: April MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE.		
4-3-80	4	1200' outby 9 th East	J. Judi	CRC	Gary	0293	4-3-80	75.1003-2-2	4-7-80
4-4-80	4	Respirable dust	G. McDonald	EFA	Eric	6103	4-4-80	71.107	4-25-80
4-4-80	4	" "	G. McDonald	EFA	Eric	6104	4-4-80	70.250	4-25-80
4-14-80	4	#14 belt drive	B. Andrews	EFA	Robert	0570	4-14-80	75.1103-8-b	4-14-80
4-14-80	4	#2 " "	" "	" "	" "	0569	4-14-80	75.1725-7	4-14-80
4-15-80	4	#4 " "	" "	" "	Gary	0571	4-15-80	75.400	4-16-80
4-15-80	4	3 Room	J. Milovich	"	Robert	0625	4-15-80	75.503	4-15-80
4-15-80	4	" "	" "	" "	" "	0627	4-15-80	75.514	4-15-80
4-15-80	4	" "	" "	" "	" "	0624	4-15-80	75.400	4-15-80
4-15-80	4	" "	" "	" "	" "	0622	4-15-80	75.316	4-15-80
4-15-80	4	" "	" "	" "	" "	0623	4-15-80	75.503	4-15-80
4-16-80	4	9 th East	Andrews	"	Louis	0573	4-16-80	75.1710-1-e	4-16-80
4-16-80	4	3 Room	Milovich	"	Robert	0628	4-16-80	75.1100-3	4-16-80
4-16-80	4	9 th East	Andrews	"	Louis	0572	4-16-80	75.502	4-16-80
4-17-80	4	" "	" "	" "	Gary	0574	4-17-80	75.316	4-18-80
4-17-80	4	Material Train cable	" "	" "	" "	0575	4-17-80	77.604	4-17-80
4-17-80	4	#5 belt	Milovich	"	Robert	0629	4-17-80	75.514	4-17-80
4-21-80	4	9 th East	Andrews	"	"	0576	4-21-80	75.516	4-21-80
4-21-80	4	" "	" "	" "	" "	0578	4-21-80	75.202	4-21-80
4-24-80	4	#17 belt	Milovich	"	Gary	0631	4-24-80	75.400	4-24-80
4-24-80	4	#1+2 belt	" "	" "	" "	0630	4-24-80	75.400	4-24-80
4-24-80	4	3 Room	" "	" "	" "	0632	4-24-80	75.517	4-24-80
4-24-80	4	9 th East	Andrews	"	Robert	0579	4-24-80	75.400	4-25-80
4-28-80	Surface	#3 belt	Milovich	"	Gary	0633	4-28-80	77.250-b	4-28-80
4-29-80	"	#59 cut truck	" "	" "	" "	0634	4-29-80	77.1605-a	5-2-80
4-29-80	4	9 th East	Andrews	"	Robert	0580	4-28-80	75.316	4-29-80
4-29-80	4	11 th West	" "	" "	" "	0152	4-29-80	75.202	4-29-80
4-29-80	4	" "	" "	" "	" "	0151	4-29-80	75.200	4-29-80
4-29-80	Surface	Refuse conveyor	Milovich	"	Gary	0636	4-29-80	77.400-a	4-30-80
4-29-80	"	Tipple	" "	" "	" "	0637	4-30-80	77.1107-X	4-30-80
4-29-80	"	Refuse Truck	" "	" "	" "	0635	4-29-80	77.1105-d	4-29-80
4-29-80	4	11 th West	Andrews	"	Robert	0148	4-29-80	75.1222-a	4-29-80
4-29-80	4	" "	" "	" "	" "	0150	4-29-80	75.516	4-29-80
4-29-80	4	" "	" "	" "	" "	0149	4-29-80	75.1101-2-2	4-29-80
4-30-80	4	" "	" "	" "	" "	0153	4-30-80	75.503	4-30-80

MONTH OF: *October* MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE.		
10-2-80	4	Smokers Search	Lemon	AAA	Ramon	0816	10-2-80	75.1801	10-3-80
10-2-80	4	#2 belt drive	" "	"	"	0817	" "	75.1103-8(B)	10-2-80
10-2-80	4	" "	" "	"	"	0818	" "	75.1722-6	10-2-80
10-2-80	4	#2 belt	" "	"	"	0819	" "	75.400	10-2-80
10-2-80	4	#14 belt drive	" "	"	"	0820	" "	75.1103-8(B)	10-2-80
10-2-80	4	#3 belt drive	" "	"	"	0961	" "	75.1103-8(B)	10-2-80
10-2-80	4	#5 belt drive	" "	"	"	0962	" "	75.1103-8(B)	10-2-80
10-2-80	4	#7 belt drive	" "	"	"	0964	" "	75.1103-8(B)	10-2-80
10-2-80	4	#5 belt	" "	"	"	0963	" "	75.400	10-2-80
10-2-80	4	3 Room	" "	"	"	0965	" "	75.400	10-2-80
10-3-80	4	main Intake	Andrews	"	Gary	0772	10-3-80	75.403	10-3-80
10-6-80	4	#1 + 2 belt	Lemon	"	Ramon	0966	10-6-80	75.1722-a	10-6-80
10-6-80	4	#16 belt drive	" "	"	"	0967	10-6-80	75.400	10-7-80
10-6-80	4	#4 belt drive	" "	"	"	0968	10-6-80	75.1722-a	10-6-80
10-6-80	4	#16 belt drive	" "	"	"	0969	10-6-80	75.1722-a	10-6-80
10-6-80	4	17 West	" "	"	"	0970	10-6-80	75.202	10-6-80
10-6-80	4	" "	" "	"	"	0972	10-6-80	75.503	10-6-80
10-6-80	4	" "	" "	"	"	0973	10-6-80	75.503	10-6-80
10-7-80	4	" "	" "	"	Robert	0976	10-7-80	75.400	10-7-80
10-7-80	4	" "	" "	"	"	0975	10-7-80	75.503	10-7-80
10-8-80	4	7 North	" "	"	Ramon	0977	10-8-80	75.402	10-8-80
10-8-80	4	17 West	" "	"	"	0978	10-8-80	75.904	10-8-80
10-8-80	4	11 West	" "	"	"	0979	10-8-80	75.202	10-8-80
10-14-80	4	#9 belt drive	" "	"	"	0981	10-14-80	75.400	10-14-80
10-14-80	4	#9 belt trans former	" "	"	"	0982	10-14-80	75.400	10-15-80
10-14-80	4	#9 belt drive	" "	"	"	0980	10-14-80	75.1100-3	10-15-80
10-16-80	4	9 th East	" "	"	"	0983	10-16-80	75.503	10-16-80
10-21-80	4	9 th East	" "	"	"	0988	10-21-80	75.1105	10-24-80
10-21-80	4	9 th East	" "	"	"	0986	10-21-80	75.202	10-21-80
10-21-80	4	9 th East	" "	"	"	0987	10-21-80	75.400	10-21-80
10-22-80	5	1 st West drive	Andrews	"	Robert	0779	10-22-80	75.1107-16-a	10-22-80
10-22-80	4	9 th East	Lemon	"	Ramon	0989	10-22-80	75.313	10-22-80
10-22-80	4	9 th East	" "	"	"	0990	10-22-80	75.1100-3	10-23-80
10-22-80	4	9 th East	" "	"	"	0991	10-22-80	75.400	10-22-80
10-23-80	4	9 th East	" "	"	Robert	0992	10-23-80	75.1403-10	10-23-80

Continued on following

MONTH OF: MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
36. 10-23-80	5	1 st South	Andrews	"	Parson	0780	10-23-80	75.503	10-23-80
37. 10-27-80	5	O belt	Lemon	"	"	0994	10-27-80	77.202	10-27-80
38. 10-28-80	4	11 th West	" "	"	"	0995	10-28-80	75.517	10-28-80
39. 10-28-80	4	7 th N, Intake	" "	"	"	0996	10-28-80	75.316	11-3-80
40. 10-29-80	4	#1 belt	" "	"	"	0997	10-29-80	75.400	10-29-80
41. 10-29-80	5	#1 belt	" "	"	"	0999	10-29-80	77.202	10-30-80
42. 10-29-80	5	42" belt	" "	"	"	1000	10-29-80	77.202	10-29-80
43. 10-30-80	5	1 st South	Andrews	"	Lou	0921	10-30-80	75.200	10-30-80
44. 10-30-80	5	boney room	Lemon	"	Parson	1001	10-30-80	77.202	10-30-80
45. 10-30-80	5	#8 belt	" "	"	"	1004	10-30-80	77.205-b	10-30-80
46. 10-30-80	5	Main Floor	" "	"	"	1005	10-30-80	77.202	10-30-80
47. 10-23-80	4	RESPIRABLE DUST	McDonald	CFB	E. GERRICK	6219	10-23-80	70.250(b)	10-28-80
4/22/80	5	Belt #2	JES			0743	6/22/80	75.1101-1	6/27/80
6/22/80	5	#5 mine Substation	JES			0742	6/22/80	75.701	6/27/80
<p>Were omitted from June Report - Issued to Craig Brotherson</p>									

MONTH OF: Dec. MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
1 12-9-80	4	Record books	Lemon	BAB	Parson	1044	12-9-80	75.1801	12-10-80
2 12-9-80	4	17 th West	" "	"	"	1045	" "	75.202	12-9-80
3 12-9-80	4	" "	" "	"	"	1046	" "	75.503	12-9-80
4 12-9-80	4	" "	" "	"	"	1047	" "	75.200	12-9-80
5 12-10-80	4	" "	" "	"	"	1048	12-10-80	75.202	12-10-80
6 12-10-80	4	" "	" "	"	"	1049	" "	75.316	12-10-80
7 12-10-80	4	" "	" "	"	"	1050	" "	75.316	12-10-80
8 12-10-80	4	#4 belt	" "	"	"	1051	" "	75.400	12-10-80
9 12-10-80	4	#9 belt	" "	"	"	1052	" "	75.400	12-10-80
10 12-10-80	4	#3 belt	" "	"	"	1053	" "	75.400	12-10-80
11 12-10-80	4	#3 belt	" "	"	"	1054	" "	75.1103-8(b)	12-10-80
12 12-10-80	4	#2 belt	" "	"	"	1055	" "	" "	" "
13 12-15-80	4	17 th West	" "	"	Mike	1057	12-15-80	75.200	12-15-80
14 12-16-80	4	11 th West	" "	CAA	Blair	1058	12-16-80	75.400	12-16-80
15 12/10	5					6249	12-10-80	70.100 A	

MONTH OF: November MONTHLY INSPECTIONS AND VIOLATIONS

DATE	MINE	AREA INSP. UNDERGROUND OR SURFACE	NAME OF PRIME INSPECTOR	TYPE OF INSP.	USF REP. WITH	CITATION		ALLEGED STANDARDS VIOLATED	ABATEMENT DATE
						NO.	DATE		
1 11-3-80	4	7 th North	Lemon	AAA	Parson	1007 ^x	11-3-80	75.1403-7a	11-3-80
2 11-4-80	4	17 th West	Lemon	"	"	1008 ^x	11-4-80	75.202	11-4-80
3 11-4-80	4	7 th North	" "	"	"	1009 ^x	11-4-80	75.1403-7a	11-4-80
4 11-4-80	5	Surface	" "	"	"	1010 ^x	11-4-80	77.1109-c-1	11-4-80
5 11-6-80	5	" "	" "	"	Gary	1011 ^x	11-6-80	77.400	11-6-80
6 11-6-80	5	" "	" "	"	"	1012 ^x	11-6-80	77.214-9	11-6-80
7 11-6-80	5	" "	" "	"	"	1013 ^x	11-6-80	77.214-6	11-18-80
8 11-7-80	5	2 nd West	Andrews	"	Lox	0923 ^x	11-7-80	50.20	11-7-80
9 11-7-80	5	Surface	Lemon	BAE	Gary	1014 ^x	11-7-80	71.100	12-10-80
10 11-17-80	4	17 West	Judi	CBA	Dean	0751 ^x	11-17-80	75.601	11-17-80
11 11-17-80	4	" "	" "	"	"	0752 ^x	11-17-80	75.524	11-18-80
12 11-19-80	4	" "	" "	"	"	0753 ^x	11-19-80	75.900	11-19-80
1 1-24-80	4	11 th East	" "	"	"	0754 ^x	11-24-80	75.900	11-24-80
14 11-23-80	5	2 nd West	Lemon	A.F.C.	Lou	1041 ^x	11-23-80	75.316	11-26-80
15									
16 11-5-80	5	2 nd West	Andrews	AAA	Robert	0922 ^x	11-5-80	75.515	11-5-80
17 11-25	4	9 th 216-0	Mr. Norwood	P.F.B.	Parson	6230 ^x	11-25-80	70-100-A	2-04-81

Citation or Order Number	Date	Type of Action	Health or Safety Standard Violated: CFR Title 30	(A) Size of Operator		(B) History of Previous Violations						(C) Negligence		(D) Gravity				Demonstrated Good Faith Points	Total Points	Penalty \$
				Mine Points	Company Points	Total Number of Avoiced Violations Preceding 24 Months	Avoiced Violation Points	Total Number of Inspection Days Preceding 24 Months	Inspection Day Points	Special Assessment Points	Negligence Points	Special Assessment Points	Probability of Occurrence Points	Gravity of Injury Expected Points	Number of Persons Injured Points	Special Assessment Points				
01021187 ✓	03/19/81	104A C	75.503 ✓	06	2		5		07	0	0	0	1	1	1	0	-3	20	\$40.00	
01021188 ✓	03/19/81	104A C	75.316 ✓	06	2		5		07	0	14	0	3	3	2	0	-6	36	\$140.00	
01021191 ✓	03/26/81	104A C	75.403 ✓	06	2		5		07	0	2	0	0	0	0	0	-2	20	\$40.00	
09946269 ✓	02/04/81	104F C	70.100A ✓	05	2		1		03	0	8	0	3	0	2	0	-3	21	\$44.00	
01020940 ✓	02/25/81	104A C	75.517 ✓	05	2		1		03	0	9	0	0	3	1	0	-3	21	\$44.00	
01021181 ✓	02/25/81	104A C	75.200 ✓	05	2		1		03	0	6	0	0	0	0	0	-3	14	\$28.00	
01021158 ✓	03/03/81	104A C	75.604B ✓	05	2		1		03	0	7	0	3	7	1	0	-5	24	\$56.00	
01021182 ✓	03/03/81	104A C	75.1100-2F ✓	05	2		1		03	0	10	0	3	3	1	0	-3	25	\$60.00	
01021183 ✓	03/03/81	104A C	75.512 ✓	05	2		1		03	0	14	0	3	10	1	0	-3	36	\$140.00	
01021184 ✓	03/04/81	104A C	75.316 ✓	05	2		1		03	0	12	0	0	3	8	0	-3	31	\$98.00	
01021185 ✓	03/11/81	104A C	75.200 ✓	05	2		1		03	0	14	0	3	3	1	0	-3	29	\$84.00	
01021186 ✓	03/16/81	104A C	75.200 ✓	05	2		1		03	0	12	0	3	7	1	0	-3	31	\$98.00	
09946279 ✓	03/17/81	104F C	70.100A ✓	06	2		5		07	0	0	0	3	3	1	0	-4	23	\$52.00	
09946280 ✓	03/17/81	104F C	70.100A ✓	06	2		5		07	0	5	0	3	3	1	0	-7	25	\$60.00	
09946294 ✓	04/02/81	104F C	70.100A ✓	06	2		5		07	0	5	0	3	3	1	0	-7	25	\$60.00	

Citation or Order Number	Date	Type of Action	Health or Safety Standard Violated: CFR Title 30	(A) Size of Operator		(B) History of Previous Violations						(C) Negligence		(D) Gravity				Demonstrated Good Faith Points	Total Points	Penalty \$
				Mine Points	Company Points	Total Number of Assessed Violations Preceding 24 Months	Assessed Violation Points	Total Number of Inspection Days Preceding 24 Months	Inspection Day Points	Special Assessment Points	Negligence Points	Special Assessment Points	Probability of Occurrence Points	Gravity of Injury Expected Points	Number of Persons Affected Points	Special Assessment Points				
01021146 ✓	02/10/81	104A C	77.701 ✓	06	2		5		06	0	10	0	3	3	1	0	0	36	\$140.00	
01021147 ✓	02/10/81	104A C	77.701 ✓	06	2		5		06	0	10	0	3	3	1	0	-1	35	\$130.00	
01021148 ✓	02/10/81	104A C	77.601 ✓	06	2		5		06	0	0	0	3	3	1	0	-3	23	\$52.00	
01129035	02/10/81	104A C	75.400 ✓	06	2		5		06	0	14	0	0	0	0	0	-6	27	\$72.00	
01021149 ✓	02/11/81	104A C	77.701 ✓	06	2		5		06	0	10	0	3	3	1	0	-3	33	\$114.00	
01021150 ✓	02/11/81	104A C	77.701 ✓	06	2		5		06	0	10	0	3	3	1	0	-4	32	\$106.00	
01021151 ✓	02/11/81	104A C	77.204 ✓	06	2		5		06	0	6	0	3	3	1	0	-3	29	\$84.00	
01021152 ✓	02/12/81	104A C	77.202 ✓	06	2		5		06	0	10	0	3	3	1	0	-4	32	\$106.00	
01021153 ✓	02/12/81	104A C	77.400A ✓	06	2		5		06	0	10	0	3	7	1	0	-3	37	\$150.00	
01021154 ✓	02/12/81	104A C	77.701 ✓	06	2		5		06	0	10	0	3	3	1	0	-3	33	\$114.00	
01021155 ✓	02/12/81	104A C	77.701 ✓	06	2		5		06	0	10	0	3	3	1	0	-2	34	\$122.00	
01021156 ✓	02/12/81	104A C	77.502 ✓	06	2		5		06	0	10	0	3	3	1	0	-4	32	\$106.00	
01021157 ✓	02/12/81	104A C	77.501 ✓	06	2		5		06	0	14	0	3	10	1	0	-6	41	\$195.00	
01129037 ✓	02/17/81	104A C	75.1105 ✓	06	2		5		06	0	0	0	1	1	0	0	-2	19	\$38.00	
01129038 ✓	02/17/81	104A C	77.400A ✓	06	2		5		06	0	12	0	3	7	1	0	-6	36	\$140.00	
01129039 ✓	02/27/81	104A C	77.202 ✓	06	2		5		06	0	11	0	3	3	2	0	-2	36	\$140.00	
01128801 ✓	03/03/81	104A C	77.1110 ✓	06	2		5		06	0	8	0	3	3	1	0	-1	33	\$114.00	
01129040 ✓	03/03/81	104A C	77.200 ✓	06	2		5		06	0	13	0	3	7	1	0	-4	39	\$170.00	
01128002 ✓	03/04/81	104A C	75.3512 ✓	06	2		5		06	0	11	0	3	3	1	0	-6	31	\$98.00	
28803 ✓	03/05/81	104A C	75.3516 ✓	06	2		5		06	0	10	0	3	3	4	0	-1	38	\$160.00	

\$2,351.00

Total Penalty

MSHA 42-0095 03067

Citation or Order Number	Date	Type of Action	Health or Safety Standard Violated: CFR Title 30	(A) Size of Operator		(B) History of Previous Violations						(C) Negligence		(D) Gravity				(E) Demonstrated Good Faith Points	Total Points	Penalty \$
				Mine Points	Company Points	Total Number of Assessed Violations Preceding 24 Months	Assessed Violation Points	Total Number of Inspection Days Preceding 24 Months	Inspection Day Points	Special Assessment Points	Negligence Points	Special Assessment Points	Probability of Occurrence Points	Gravity of Injury Fined Points	Number of Persons Affected Points	Special Assessment Points				
00790751✓	11/17/80	104A C	75.601✓	06	2		4		06	0	9	0	3	0	1	0	-1	40	\$180.00	
00790752✓	11/17/80	104A C	75.524✓	06	2		4		06	0	10	0	0	3	2	0	-4	29	\$84.00	
00790753✓	11/19/80	104A C	75.900✓	06	2		4		06	0	0	0	3	3	1	0	-4	21	\$44.00	
00790754✓	11/24/80	104A C	75.900✓	06	2		4		06	0	10	0	3	3	1	0	-3	32	\$106.00	
00790755✓	11/25/80	104A C	75.601-1✓	06	2		4		06	0	11	0	3	3	2	0	-1	36	\$140.00	
00790756✓	01/06/81	104A C	75.701✓	06	2		5		06	0	9	0	3	3	1	0	-4	31	\$98.00	
00790757✓	01/12/81	104A C	75.524✓	06	2		5		06	0	10	0	0	0	0	0	-4	25	\$60.00	
00790758✓	01/12/81	104A C	75.604B✓	06	2		5		06	0	10	0	3	3	1	0	-2	34	\$122.00	
00790759✓	01/12/81	104A C	75.807✓	06	2		5		06	0	10	0	0	3	1	0	-3	30	\$90.00	
01020886✓	01/19/81	104A C	75.400✓	06	2		5		06	0	18	0	3	3	8	0	-6	45	\$255.00	
01020887✓	01/20/81	104A C	75.400✓	06	2		5		06	0	18	0	3	3	8	0	-6	45	\$255.00	
01020888✓	01/20/81	104A C	75.200✓	06	2		5		06	0	10	0	0	0	0	0	0	29	\$84.00	
01020889✓	01/20/81	104A C	75.316✓	06	2		5		06	0	14	0	0	0	0	0	-3	30	\$90.00	
01020890✓	01/21/81	104A C	75.515✓	06	2		5		06	0	11	0	3	3	1	0	-3	34	\$122.00	
01020891✓	01/21/81	104A C	75.316✓	06	2		5		06	0	10	0	3	3	2	0	-1	36	\$140.00	
01020892✓	01/22/81	104A C	75.1704✓	06	2		5		06	0	12	0	0	0	0	0	-3	28	\$78.00	
00790760✓	01/26/81	104A C	75.703✓	06	2		5		06	0	10	0	3	3	1	0	-2	34	\$122.00	
01020893✓	01/26/81	104A C	75.201✓	06	2		5		06	0	14	0	3	7	2	0	-8	37	\$150.00	
01020894✓	01/26/81	104A C	75.503✓	06	2		5		06	0	10	0	0	3	4	0	0	36	\$140.00	
01020895✓	01/26/81	104A C	75.201-1B✓	06	2		5		06	0	9	0	3	7	1	0	-2	37	\$150.00	

\$2,510.00

Total Penalty

Citation or Order Number	Date	Type of Action	Health or Safety Standard Violated: CFR Title 30	(A) Size of Operator		(B) History of Previous Violations						(C) Negligence		(D) Gravity				(E)	Total Points	Penalty \$
				Mine Points	Company Points	Total Number of Assessed Violations Preceding 24 Months	Assessed Violation Points	Total Number of Inspection Days Preceding 24 Months	Inspection Day Points	Special Assessment Points	Negligence Points	Special Assessment Points	Probability of Occurrence Points	Gravity of Injury Experienced Points	Number of Persons Affected Points	Special Assessment Points	Demonstrated Good Faith Points			
01020896 ✓	01/27/81	104A C	75.503 ✓	06	2		5		06	0	11	0	0	3	2	0	-1	34	\$122.00	
01020897 ✓	01/27/81	104A C	75.400 ✓	06	2		5		06	0	12	0	0	3	8	0	-4	38	\$160.00	
01020898 ✓	01/28/81	104A C	75.202 ✓	06	2		5		06	0	15	0	3	7	1	0	-3	42	\$210.00	
01020899 ✓	01/28/81	104A C	75.1106-3A2 ✓	06	2		5		06	0	10	0	0	3	1	0	0	33	\$114.00	
01020900 ✓	01/29/81	104A C	75.1100-3 ✓	06	2		5		06	0	8	0	3	3	2	0	-5	30	\$90.00	
01129021 ✓	01/29/81	104A C	75.1722A ✓	06	2		5		06	0	12	0	3	7	1	0	-5	37	\$150.00	
01129022 ✓	01/29/81	104A C	75.400 ✓	06	2		5		06	0	3	0	1	1	1	0	-1	24	\$56.00	
01129024 ✓	01/29/81	104A C	75.1101-1A ✓	06	2		5		06	0	4	0	0	3	2	0	-1	27	\$72.00	
01129025 ✓	01/29/81	104A C	75.1103-10A ✓	06	2		5		06	0	8	0	0	3	4	0	-3	31	\$98.00	
01129026 ✓	02/03/81	104A C	75.515 ✓	06	2		5		06	0	10	0	3	3	1	0	-3	33	\$114.00	
01129027 ✓	02/03/81	104A C	75.1100-211 ✓	06	2		5		06	0	9	0	3	3	8	0	-3	39	\$170.00	
01129028 ✓	02/03/81	104A C	75.1101-1A ✓	06	2		5		06	0	4	0	0	3	2	0	-1	27	\$72.00	
01129029 ✓	02/03/81	104A C	75.316 ✓	06	2		5		06	0	12	0	0	3	8	0	-1	41	\$195.00	
01021142 ✓	02/04/81	104A C	77.202 ✓	06	2		5		06	0	10	0	3	3	1	0	-2	34	\$122.00	
01021143 ✓	02/04/81	104A C	77.400A ✓	06	2		5		06	0	14	0	3	7	1	0	-3	41	\$195.00	
01021144 ✓	02/04/81	104A C	77.502 ✓	06	2		5		06	0	0	0	3	3	1	0	-3	23	\$52.00	
01129030 ✓	02/04/81	104A C	75.507-1A ✓	06	2		5		06	0	11	0	0	0	0	0	-2	28	\$78.00	
01129031 ✓	02/04/81	104A C	75.1100-2E2 ✓	06	2		5		06	0	9	0	0	3	1	0	-1	31	\$98.00	
01129032 ✓	02/04/81	104A C	75.202 ✓	06	2		5		06	0	20	0	0	7	1	0	-6	41	\$195.00	
01021145 ✓	02/10/81	104A C	77.701 ✓	06	2		5		06	0	10	0	3	3	1	0	-3	33	\$114.00	
00-179 (MSHA) 42-00098 03066																				
Total Penalty																				
\$2,477.00																				

01129033 ✓	02/04/81	104D1 D	75.200				148		162		SEE ATTACHED NARRATIVE STATEMENT							\$1,500.00
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~~2-12~~ Appendices

II-⁴~~3~~ Certificate of Insurance

RECEIVED

APR 1 1935

DIVISION OF
OIL, GAS & MINING

RECEIVED

APR 1 1935

DIVISION OF
OIL, GAS & MINING

APPENDIX II-4

Certificate of Liability Insurance



CERTIFICATE OF INSURANCE

This is TO CERTIFY that the described policies, covering in accordance with the terms thereof, are in force as of the date hereof:

INSURED: Sharon Steel Corporation/Including U.S. Fuel Company
P.O. Box A
Hiawatha, Utah 84527

Table with columns: COVERAGE, COMPANY & POLICY NO., EXPIRATION DATE, LIMITS OF LIABILITY (BODILY INJURY, PROPERTY DAMAGE). Rows include Workers' Compensation, Comprehensive General Liability, and Excess/Umbrella Liability.

RE: Federal office of surface mining and the Utah Division of Oil & Gas & Mining will be notified if substantial changes are made to policy. Insurance will remain in force until completion of reclamation.
*The State of Utah is named as an additional insured to the above policy.

This Certificate is issued to: State of Utah Div. of Oil, Gas & Mining
Department of Natural Resources
4247 State Office Bldg., Salt Lake City, Utah 84100

This document is furnished for information only. It does not provide or convey any insurance. Unless specified hereon its issuance does not make the person or organization to whom it is issued an additional insured under any policy of insurance.

30

Should any above described policy be cancelled, the Company issuing said policy will issue ___ days' notice to the holder of this document, at the address shown herein, but failure to give such notice shall impose no obligation of any kind upon the Company or the undersigned.

DATED: December 8, 1983 REVISED

James Embridge (handwritten signature)

Insurance and Risk Management, Inc.
U.S. Steel Building
59th Floor
Pittsburgh, PA 15219

Appendix

II - 5

RECEIVED

APR 1 1985

DIVISION OF
OIL, GAS & MINING

APPENDIX II-5

Newspaper Advertisement

RECEIVED
APR 1 1995

DIVISION OF
OIL, GAS & MINING

UNITED STATES FUEL COMPANY

HIAWATHA, UTAH 84527

April 17, 1981

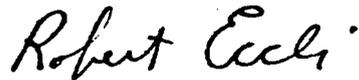
Mr. James Smith
Coordinator of Mined Land Development
Utah Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Smith:

Please find enclosed, six (6) copies of a newspaper advertisement and proof of publication of the advertisement for our Coal Mining Permit application submitted March 23, 1981.

This advertisement should be inserted on page 11 - 15 of Volume I of the application.

Yours truly,



Robert Eccli,
Engineer

RE/ds

Enclosure(s)



UNITED STATES FUEL COMPANY

HIAWATHA, UTAH 84527

April 17, 1981

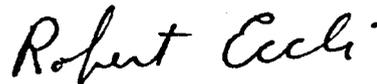
Mr. Donald A. Crane
Regional Director
Office of Surface Mining
Brook Towers
1020 15th Street
Denver, Colorado 80202

Dear Mr. Crane:

Please find enclosed, seven (7) copies of a newspaper advertisement and proof of publication of the advertisement of our Coal Mining Permit application submitted March 23, 1981.

This advertisement should be inserted on page 11 - 15 of Volume I of the application.

Yours truly,



Robert Eccli,
Engineer

RE/ds

Enclosure(s)



AFFIDAVIT OF PUBLICATION

STATE OF UTAH }
 County of Carbon, } ss.

I, Robert L. Finney, on oath, say that I am
 the Publisher of The Sun-Advocate,
 a weekly newspaper of general circulation, published at Price,
 State and County aforesaid, and that a certain notice, a true copy
 of which is hereto attached, was published in the full issue of
 such newspaper for Four (4)
 consecutive issues, and that the first publication was on the
25th day of March, 19 81 and that the
 last publication of such notice was in the issue of such newspaper
 dated the 15th day of April, 19 81

Robert L. Finney

Subscribed and sworn to before me this
15th day of April, 19 81

Shelley Finney
 Notary Public.

My Commission expires My Commission Expires October 26, 1983

Publication fee, \$ 122.40

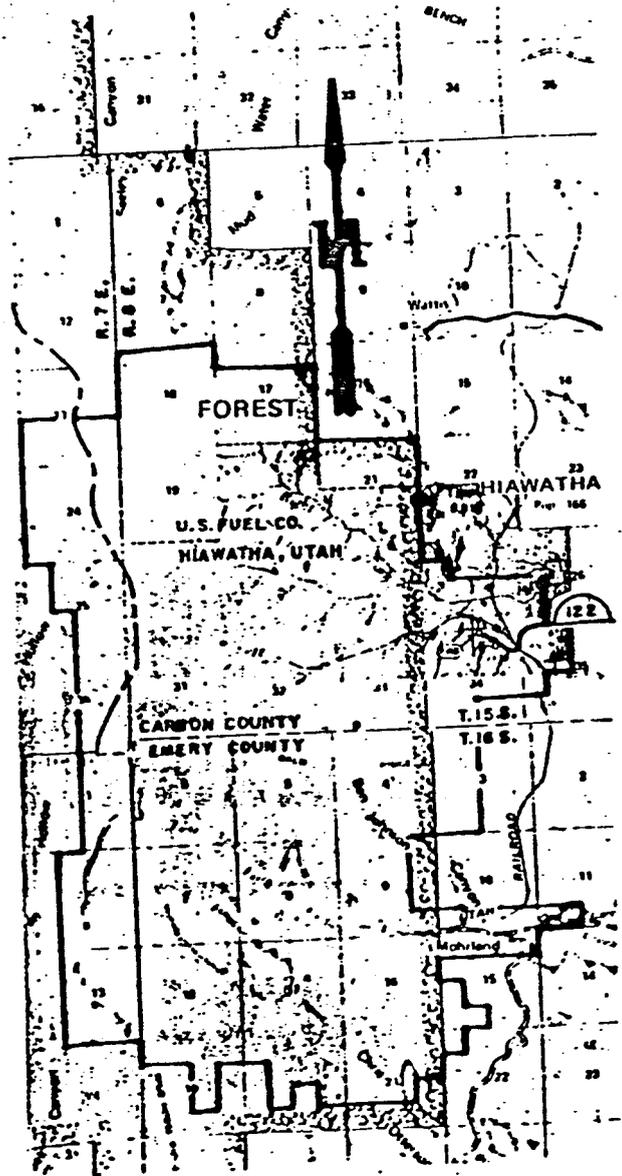
PUBLIC NOTICE

United States Fuel
 Company, Hiawatha,
 Utah 84527, pursuant to
 Utah Mining Code
 promulgated under UCA
 40-10-1 et. seq., is sub-
 mitting the King Mines
 Mining and Reclamation
 Plan.

The project area is
 located on the U.S.
 Geological Survey
 Hiawatha 7.5 - minute
 quadrangle. The map
 below shows the general
 location and property
 boundaries. A detailed
 description of the fee and
 lease properties is in-
 cluded in the permit
 application.

A copy of the ap-
 plication is available for
 public inspection at the
 following address:

Recorder's Office
 Carbon County Cour-
 thouse
 Price, Utah 84501
 Recorder's Office
 Emery County Cour-
 thouse
 Castle Dale, Utah 84513
 Written comments,
 objections or requests for
 informal conference
 should be sent to the
 following addresses:
 Division of Oil, Gas and
 Mining
 1588 West North
 Temple
 Salt Lake City, Utah
 84116
 Office of Surface
 Mining
 Brooks Towers, Suite
 1020
 15th Street
 Denver, Colorado 80202
 Published in the Sun
 Advocate March 25 and
 April 1, 8 and 15, 1981.



WAL. P.O.N. 14045 ✓
 C! P.O.R.L.
 Bob Beck

AFFIDAVIT OF PUBLICATION

STATE OF UTAH }
 County of Emery, } ss.

I, Dan Stockburger, on oath, say that I am
 the General Manager of The Emery County Progress,
 a weekly newspaper of general circulation, published at Castle Dale,
 State and County aforesaid, and that a certain notice, a true copy
 of which is hereto attached, was published in the full issue of
 such newspaper for Four (4)

consecutive issues, and that the first publication was on the
22nd day of February, 19 84 and that the
 last publication of such notice was in the issue of such newspaper
 dated the 14th day of March, 19 84

Dan Stockburger

Subscribed and sworn to before me this
14th day of March, 19 84.

Hally J. Baker
 Notary Public.

My Commission expires My Commission Expires October 22, 1986, 19 86

Residing at Price, Utah

Publication fee, \$ 156.00

LEGAL NOTICE

United States Fuel Company, P.O. Box A, Hiawatha, Utah 84527, pursuant to Utah Mining Code 786, promulgated under UCA 40-10-1, has submitted an "apparently complete" Mining and Reclamation Plan for the King Mines. United States Fuel Company's permit application number is ACT 007/011.

The King Mines permit area is located approximately 25 miles south-west of Price, Utah via U.S. Hwy. 10 and State Hwy. 122.

The following described lands are contained on the U.S. Geological Survey 7.5 minute Hiawatha quadrangle map.

TOWNSHIP 15 S., RANGE 7 E.
 Sec. 13 S $\frac{1}{2}$
 Sec. 24 all
 Sec. 25 E $\frac{1}{2}$, E $\frac{1}{2}$ NW $\frac{1}{4}$
 Sec. 36 E $\frac{1}{2}$

TOWNSHIP 15 S., RANGE 8 E.
 Sec. 17 SW $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$,
 N $\frac{1}{2}$ NW $\frac{1}{4}$ portion
 All of sections: 18, 19, 20 & 21
 Sec. 26 W $\frac{1}{2}$ SW $\frac{1}{4}$
 Sec. 27 SE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$
 All of sections: 28, 29, 30, 31, 32 & 33
 Sec. 34 NE $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$
 Sec. 35 NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$

TOWNSHIP 16 S., RANGE 7 E.
 Sec. 1 E $\frac{1}{2}$
 Sec. 12 NE $\frac{1}{4}$, SE $\frac{1}{4}$, E $\frac{1}{2}$ W $\frac{1}{2}$
 Sec. 13 E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$

TOWNSHIP 16 S., RANGE 8 E.
 Sec. 3 W $\frac{1}{2}$
 All of sections: 4, 5, 6, 7, 8 & 9
 Sec. 10 S $\frac{1}{2}$ S $\frac{1}{2}$
 Sec. 11 S $\frac{1}{2}$ SW $\frac{1}{4}$
 Sec. 15 W $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ NE $\frac{1}{4}$,
 SW $\frac{1}{4}$ NE $\frac{1}{4}$

All of sections: 16, 17 & 18
 Sec. 19 N $\frac{1}{2}$ N $\frac{1}{2}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$
 Sec. 20 NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, N $\frac{1}{2}$ NW $\frac{1}{4}$,
 SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$
 Sec. 21 NE $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$
 Sec. 22 NW $\frac{1}{4}$ NW $\frac{1}{4}$

A copy of the application is available for inspection at the following locations:
 Carbon County Courthouse, Price, Utah 84501
 Emery County Courthouse, Castle Dale, Utah 84513

Written comments, objections or requests for informal conferences may be submitted under Sec. UMC 786.12-786.14 to:

Utah Division of Oil, Gas and Mining
 4241 State Office Building
 Salt Lake City, Utah 84114

Office of Surface Mining
 Reclamation and Enforcement
 Brooks Towers
 1020 15th Street
 Denver, Colorado 80202

Published in the Emery County Progress
 February 22, 29, March 7 and 14, 1984.

APPENDIX II-6

RESPONSE TO PERMIT CONDITIONS

The following is a summary of the permit condition responses as submitted by U.S. Fuel and approved by the Division of Oil, Gas and Mining. This compilation was done to satisfy DOGM's January 21, 1988 request that all of the approved conditions be incorporated into the current, approved mine plan.

✓ CONDITION #1

U.S. Fuel commits to this condition with the following wording:

Prior to the initiation of any ground disturbance activities in a previously undisturbed area, the permittee shall contact the Division concerning the need for cultural resources inventory of the impact area. If an inventory is required, the operator shall ensure that all cultural resources are properly evaluated in terms of National Register of Historic Places eligibility criteria. Where a significant site will be affected by mining, the permittee will consult with OSMRE, Utah DOGM, and the SHPO to develop and implement appropriate impact mitigation measures according to a mutually agreed upon schedule.

CONDITION #2

U.S. Fuel is providing the following as a commitment to Condition #2:

U.S. Fuel has already incorporated the water monitoring parameter and sampling changes into the permit text and monitoring schedule. The following reference is provided: Chapter VII, Section 7.2, Pages VII-6 and VII-7, Tables VII-5, VII-5a, VII-7a and VII-7.

CONDITION #3

Slurry pond 5A is no longer in use.

CONDITION #4

Refer to the attached "Inspection and Contingency Plan For Water Impounding Seals at Hiawatha No. 2 Mine".

CONDITION #5

The spring monitoring program was revised and is located in the permit in Chapter VII, Section 7.1, Page VII-28.

CONDITION #6

In April, 1985, United States Fuel Company contacted the Utah Division of Oil, Gas and Mining by letter requesting consultation with them (as requested by OSM) to arrive at a suitable in-mine water monitoring program. U.S. Fuel will continue to work with the Division in this regard.

CONDITION #7

The soil analyses of the equipment storage yard soil have been provided and are in the permit application in Chapter III, Section 3.5, Page III-86 and in Chapter VIII, Table VIII-23.

CONDITION #8

Results and laboratory analysis of the soil in the non-refuse portion of the preparation plant are provided in the Mine Permit Application Chapter III, Section 3.5, Pages III-83 through III-85, Exhibit III-3 and Chapter VII, Table VII-21.

CONDITION #9

A discussion of location and proposed protective measures to be used can be found in Chapter III, Section 3.5, Pages III-84 and III-85 and Exhibit VIII-4.

✓ CONDITION #10

U.S. Fuel has provided the Division with the requested vegetative information.

CONDITION #11

U.S. Fuel has complied with this condition. Please refer to OSM's May 8, 1987 letter to U.S. Fuel Company.

✓ CONDITION #12

U.S. Fuel commits to Condition #12.

✓ CONDITION #13

U.S. Fuel commits to following the November 11, 1985 reclamation and fee installment agreement between U.S. Fuel Co. and OSM.

CONDITION #14

U.S. Fuel is providing the following as a commitment to Condition #14:

U.S. Fuel commits to restoring accessible areas impacted by subsidence caused surface cracks or other subsidence features which have occurred as a result of mining conducted after 1978 and are of a size and nature that could, in the Division's determination, either injure or kill grazing livestock or wildlife. Restoration shall be undertaken after annual subsidence survey data indicate that the surface has stabilized, but in all cases restoration and revegetation shall be completed prior to bond release.

CONDITION #15

The permittee commits to the condition with the following wording:

"The applicant shall commit, within 30 days of permit approval, to compensate surface owners from the time of permit approval forward (except for land owned by the applicant) for lands which cannot be safely grazed due to hazards caused by surface effects of subsidence, with land (in close proximity) of comparable size and grazing capacity to be used for grazing until restoration of the damaged land is achieved."

CONDITION #16

U.S. Fuel is providing the following as a commitment to Condition #16:

U.S. Fuel will compensate, at a fair market value, owners of livestock which are injured or killed as a direct result of surface hazards caused by subsidence.

CONDITION #17

U.S. Fuel is providing the following as a commitment to Condition #17:

U.S. Fuel has committed to replace any water demonstrated to have been lost or adversely affected by mining operations in the permit application Chapter III, Section 3.4, Page III-11.

✓ CONDITION #18

U.S. Fuel commits to Condition #18.

✓ CONDITION #19

U.S. Fuel is providing the following as a commitment to Condition #19:

At least 60 days prior to beginning pillar extraction of second seam mining inside a perennial stream buffer zone as defined by a 20 degree angle of draw from vertical, measured from the limit of mining in the lowest seam to the center of the stream channel, the permittee shall present a detailed evaluation of the anticipated effects of multiple seam mining on perennial streams to the regulatory authority for review and approval as required by UMC 817.126 (a). This evaluation must be based upon subsidence monitoring information (where available) collected on multiple seam mining in areas with similar overburden depth and surface topography.

INSPECTION AND CONTIGENCY PLAN FOR WATER
IMPOUNDING SEALS AT HIAWATHA NO. 2 MINE

INSPECTION

The following procedures will be employed to inspect the manway, main entry and return air course seals in the Hiawatha No. 2 mine. The fourth seal (most easterly) will not be inspected. The manway door in the east seal was opened in connection with core testing performed during December, 1984. As requested by MSHA, the door was left open to ensure the water level cannot rise above this point. It would be unsafe to inspect this seal since the occurrence of "black damp" is possible.

- A. Photographs of the three seals will be taken from a marked location in June of each year.
- B. A survey net consisting of one horizontal and one vertical nylon cord will be installed a convenient distance from the face of each seal (see figure 1). The distance from the cord to the seal will be measured at five marked evaluation points with a steel tape. Measurements will be taken to within 0.01 ft. and recorded in a log book. The nets will be monitored once in the spring and once in the fall.
- C. Water seepage occurs naturally at all the seals and varies with the quantity of water being stored. Thick calcium deposits on the seals and abutments attest to the fact that seepage has occurred naturally over many years. Collecting water from a myriad of minute seeps which dissipate in the porous floor at the foot of the seals would be difficult at best.

We propose a monthly (except winter months) leakage monitoring system based on visual observation. Flows will be observed and recorded as one of four categories as follows:

1. DAMP - Damp walls and occasional drippers (normal under low storage conditions).
2. FLOW NOTED - Trickles and discernible small flows observed (normal under high storage conditions).
3. SIGNIFICANT FLOW - Unusual, though minor, increase in flow rate.
4. CRITICAL FLOW - Obviously unnatural and potentially serious flows observed.

A contingency plan will be put into effect if critical flows are observed.

CONTINGENCY PLAN

The following actions will be taken in the event potential bulkhead failure is indicated by any of the monitoring procedures listed above:

- A. The gate valve on the 6 inch discharge pipe located in the manway entry seal (lowest seal) will be opened completely. This will allow water from behind the seals to drain through old mine workings toward the Mohrland portal where it will discharge along with other mine water.
- B. Inflow to the Hiawatha No. 2 mine from the North Fork diversion will be discontinued by rediverting the water back to Miller Creek.
- C. If evidence of significant failure increases, guards will be posted on the Middle Fork road to prevent access to the endangered area until the reservoir can be drawn down to a safe volume.
- D. The damaged seal will be tested and repaired.

BE:lj:350L



United States Department of the Interior
OFFICE OF SURFACE MINING
Reclamation and Enforcement
BROOKS TOWERS
1020 15TH STREET
DENVER, COLORADO 80202



In Reply Refer To:

1542M

May 8, 1987

4441
UT-0006

Ms. Jean Semborski, Environmental Coordinator
United States Fuel Company
P.O. Box A
Hiawatha, Utah 84521

Dear Ms. Semborski:

The Office of Surface Mining Reclamation and Enforcement (OSMRE), has received a copy of the May 13, 1985, letter from the U.S. Fish and Wildlife Service, to you concerning your compliance with their biological opinion. Special Federal Condition No. 11, attached to Federal Permit UT-0006, dated March 20, 1987, is hereby considered fulfilled.

If you have any questions, please call Meg Estep-Johnston or Richard Holbrook at (303) 844-2451.

Sincerely,

Panvir Singh
for Peter A. Rutledge, Chief
Division of Federal Programs

cc: Lowell Braxton, Utah DOGM

Chapter III

OPERATION AND RECLAMATION PLAN

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3.1 Scope

United States Fuel Company presently has operations at several different sites near Hiawatha, Utah. Because of the complexity of the entire unit, five separate areas of operation and reclamation will be discussed in this chapter. The five areas (surface disturbance), all part of the same permit application and included under one mine plan area, are referenced as follows:

U. S. Fuel Company General Permit Area Components

1. Middle Fork of Miller Creek Surface Facilities.
2. North (Right) Fork of Miller Creek Ventilation Shaft
3. Hiawatha Processing Plant and Waste Disposal Sites
4. South (Left) Fork of Miller Creek Surface Facilities
5. Substitute Topsoil Borrow Sites

As described in detail in Chapter V Historical and Cultural Resources, the United States Fuel Company was organized in 1915 and commenced operation in 1916 when it took over the properties of the Consolidated Fuel Company, Castle Valley Coal Company, and the Blackhawk Coal Company, whose mines all existed on the current mine plan area. Development of different areas has taken place by U. S. Fuel Company up until the present time. Seven significant mines have been developed since the beginning of mining in this area. Coal extraction has been entirely by the room and pillar mining method. Mining has continued uninterrupted for a period of over 70 years with a total production of over 56 million tons. To clarify the previous, current and future coal mining operations in the mine plan area, Table III-1 is presented.

Table III-1
Mines Identification

<u>Mine Location</u>	<u>Mine Name</u>	<u>Coal Seams Mined</u>	<u>Status</u>
West of Hiawatha	Old Blackhawk Mine King No. 1	Hiawatha Seam	Abandoned
Cedar Creek Mine	Mohrland Mine King No. 2	Hiawatha Seam	Abandoned
South Fork of Miller Creek	King No. 3	Hiawatha Seam	Abandoned
Middle Fork of Miller Creek	King No. 4	A. & B. Seam	Operating
Middle Fork of Miller Creek	King No. 5	B. Seam	Operating
Middle Fork of Miller Creek	Hiawatha No 1	Hiawatha Seam	Abandoned
Middle Fork of Miller Creek	Hiawatha No. 2 South Entries	Hiawatha Seam	Abandoned
Middle Fork of Miller Creek	King No. 5	A. Seam	Proposed Development
South Fork of Miller Creek	King No. 6	Hiawatha Seam	Operating
Cedar Creek Canyon Mohrland Mine Area	King No. 7	Hiawatha Seam	Projected as a future permit area
Cedar Creek Canyon Mohrland Mine Area	King No. 8	Upper Seam	Projected as a future permit area

This compliance permit application represents the current and forecasted underground coal mining operations of U. S. Fuel Company.

3.2 Surface Facilities/Construction Plans

Middle Fork of Miller Creek. The King No. 4 and 5 underground coal mines share the same surface facility located in the Middle Fork canyon of the Miller Creek drainage. A new ventilation portal for King 4 exists in the North (Right) Fork. These two mines are currently U. S. Fuel Company's operating mines. The King No. 4 and 5 mines were opened in 1974 and 1978 respectively. Surface facilities used in support of mining operations are located on private land owned by the U. S. Fuel Company.

The Middle Fork mine yard comprises approximately 10 acres and includes part of the mine site of the old Hiawatha No. 1 and 2 mines which were abandoned in 1928. Surface openings to the old Hiawatha No. 1 mine have been sealed and blocked off with iron gates, locked and posted with warning signs. Openings to the Hiawatha No. 2 mine are sealed off with reinforced concrete bulkheads which serve as dams to store water for culinary and mining purposes. A pipe extending through the bulkhead in the old manway portal is connected with two 40 horsepower centrifugal pumps which deliver water to a 40,000 gallon water tank located above the bathhouse. Water impounded behind the bulkheads is monitored by a pressure gage in the pump room. Surface openings to the Hiawatha No. 1, as well as King No. 4 and 5 mines are in a down dip direction, thus precluding the gravity discharge of mine water in this area. Other hydrologic conditions and abandoned mine works contribute to the prevention of mine water discharge. These are discussed in Chapter VII, Hydrology.

U. S. Fuel presently uses the Hiawatha No. 2 mine as a water storage reservoir. A structural analysis, hazard assessment and test results of the reservoir dams may be found in Appendix III-6.

The existing surface facility structures and mine yard layout with buildings are shown on Exhibits III-1A and 1B. Table III-2 summarizes existing structures for the Middle Fork yard facilities. All structures are maintained in a safe, stable operating condition.

Adverse effects to the existing hydrologic balance are controlled by retaining sediment within disturbed areas or directing runoff into a sedimentation pond located at the eastern end of the mine yard. Surface runoff from undisturbed areas is channeled past disturbed areas by way of interconnecting bypass culverts beneath the mine yard. The calculations and design of the Middle Fork sedimentation pond can be found in Chapter VII-1 Appendices and Exhibit VII-9, respectively. The sedimentation pond and underground reservoir in the Hiawatha No. 2 mine are the only impoundments that exist in the Middle Fork area.

Table III-2
Summary of Surface Facilities
Middle Fork Mine Yard
North Fork Ventilation Portal

<u>Facility</u>	<u>Date Constructed</u>	<u>Size</u>
<u>Middle Fork Mine Yard and Storage Areas</u>		
Parking Lot, Bath House	1974	6.0 Acres
Access Areas	1974	
Coal Stockpile - 13,000 Tons	1974	1.0 Acre
Sediment Pond	1980	1.0 Acre 3.62 AC FT
<u>Buildings and Structures</u>		
Main Changehouse and Warehouse	1974	12,000 Sq. Ft.
Yard Conveyor Structures	1978	830 Linear Ft.
King 4 Fan Housing	1974	840 Sq. Ft.
King 5 Fan Housing	1978	746 Sq. Ft.
King 5 Warehouse & Equip. Building	1978	800 Sq. Ft.
Main Substation	1974	2,480 Sq. Ft.
King 5 Substation	1978	725 Sq. Ft.
Water Tank	1974	24 Ft. Dia.-40,000 Gal.
King 4 Switch Building	1975	378 St. Ft.
King 5 Switch Building	1978	225 Sq. Ft.
King 4 Storage Shed	1976	256 Sq. Ft.
Bulk Rockdust Bin	1975	11 Ft. Dia.-100 Ton
Belt Drive Switch Building	1974	300 Sq. Ft.
King 4 Portals	1974	4 Openings
King 5 Portals	1978	3 Openings
Hiawatha Mine Portals (Inactive)	1909	Openings
Truck Loading Facility	1975	600 Ton/Hr.
<u>Utilities</u>		
Main Power Line	1974	12 KV 3 Miles
Water Lines	1974	2,500 Linear
Sewer Lines	1974	2,685 Linear Ft.
Drain Field	1974	2,685 Linear Ft.
<u>Haulage Facilities</u>		
Haul Road	1974	30 Ft. x 3 Miles
Yard Track	1974	42 Gage
Yard Area	1980	1.0 Acre
Jeep Road	1920	3 Miles
<u>North Fork Ventilation Portal</u>		
Yard Area	1980	1.0 Acres
Jeep Road	1920	3 Miles

The access corridor from the town of Hiawatha to the Middle Fork mine yard is owned by U. S. Fuel Company. This corridor contains the coal haulage road and powerline. Coal handling facilities in the Middle Fork yard consist of a 750 foot overland conveyor structure extending from the King No. 4 and 5 haulage portals to a stacking tower, a 13,000 ton storage pile, and vibrating feeder type truck loading facility. From the loading facility at Middle Fork mine, coal is transported by 25 ton bottom dump trucks over a 3 mile haulroad to the processing plant. The haulroad is 24 feet wide and paved with 4 inches of plant mix bituminous material. The haulroad has 3 foot shoulders on each side, giving the road a total width of 30 feet. Drainage structures for the road adequately pass runoff from the upper watersheds into Miller Creek. The location of culverts are shown on Exhibits III-1A and 1B.

The approximate disturbed area for the Middle Fork mine facilities and storage areas is 10 acres. A plan for a portal breakout for intake air and a possible conveyor portal to the coal pile has been approved. Information on the .5 acre of proposed additional disturbance can be found in Appendix III-7. Exhibit III-1C provides the location and some construction details. This breakout is the only additional disturbance and construction planned for the life of the mines in Middle Fork canyon. The existing haulroad has approximately 11 acres of disturbed areas.

North Fork Ventilation Portal. A plan for the construction of this facility is included in the Appendix III-1 of this chapter. A portal was constructed in the North Fork drainage to provide the King No. 4 mine with intake ventilation. Originally, the plan called for return ventilation warranting the construction of a fan and powerline. However, the area was not developed with power so the portal provides intake air naturally for the mine. Exhibit III-2 shows the disturbed area, approximately one acre, for the portal facility. A three mile jeep road from Hiawatha to the ventilation portal is the only access.

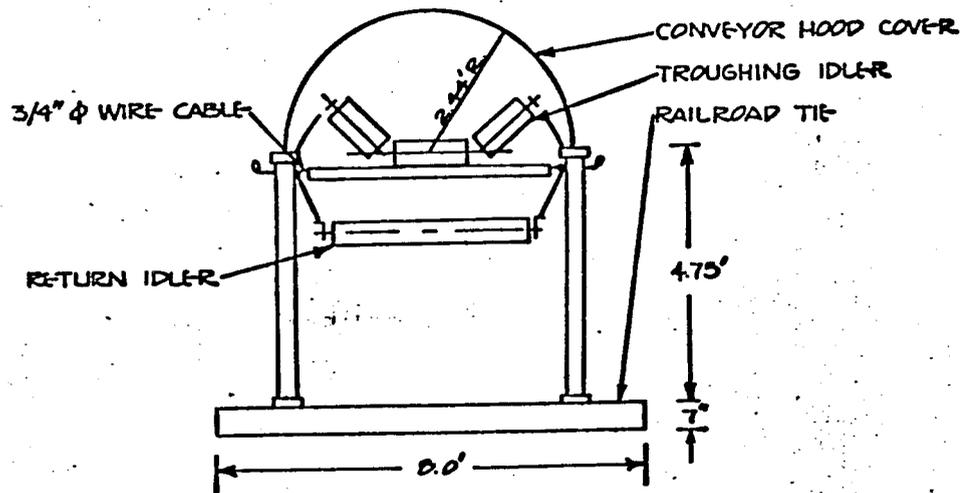
South (Left) Fork Mine Yard. The South Fork mine yard was constructed in 1947 to facilitate the old King 3 mine. For almost 28 years, from 1948 to 1975, there were mining sections operating in the King 3 mine (old works of the proposed King 6 mine). The mine yard occupies approximately 8 acres of fee land. Work has been completed to upgrade the existing structure and construct new facilities for the King 6 mine. Table III-3 gives a summary of the existing facilities for South Fork mine yard.

Coal is loaded underground on a 42 inch wire rope conveyor; similar to that shown on Plate III-1. The coal is then conveyed from the mine mouth, approximately 2,100 feet down the South Fork canyon, to a 5,000 ton coal stockpile. Trucks are loaded by belt and transport the coal 3 miles to the processing plant at Hiawatha. The surface facilities for South Fork are located on Exhibits III-4A and III-4B.

Table III-3
Summary of Surface Facilities
South Fork Mine Yard
King No. 6

Facility	Date Completed	Size
Mine Yard and Storage Areas		
Parking Lot	1981	3.7 Acres
Equipment and Supply Storage	1981	5.0 Acres
Upper Sediment Pond	1979	3.75 AC.FT 1.3 AC
Truck Loadout and Sed. Pond	1981	3.0 Acres
Buildings and Structures		
Change House	About 1948	Approx. 6,400 Square Feet
Shop Building	About 1948	Approx. 3,600 Square Feet
Fan Housing	About 1948	Approx. 800 Sq. Ft.
Water Tank		40,000 Gallons
Main Substation	About 1948	Approx. 500 Sq. Ft.
King 6 Portals	1981	3 Openings
Storage Shed	1979	Approx. 1,100 Sq. Ft.
Truck Loading Facility	1982	Approx. 3.0 Acres
Utilities		
Main Power Line	1981	Approx. 2,500 L.F.
Water Lines	1981	Approx. 3,000 L.F.
Sewer Lines	1981	
Drain Field	1981	
Haulage Facilities		
Upgraded Paved Haul Road	1981	30 Ft. x 2.5 Miles
42 Inch Conveyor Line	1982	2,100 L.F.

Plate III-1



SCALE N.T.S.	DATE	UNITED STATES FUEL CO. HIAWATHA, UTAH	TYPICAL SECTION OF WIRE ROPE CONVEYOR	NO.
DR'N: CARLA F.	1-29-81			PLATE III-1
CKD:	AP'VD:			

Water is supplied to South Fork facilities from a pipe extending through the intake air portal and pumped to a 40,000 gallon tank located up the canyon from the changehouse. Remaining water is piped down the canyon to a 130,000 gallon concrete in-ground tank. This water is used at Hiawatha for municipal and industrial uses. Water conveyance devices for water storage facilities in the King 6 area are shown on Exhibit III-12A. A summary of U. S. Fuel's water rights is included in Chapter VII, Hydrology. A sewage line runs from the changehouse to a septic tank located in the mineyard; further down the canyon, it runs to a drain field shown on Exhibit III-4A.

Impact on the existing hydrologic balance will be controlled by retaining runoff in sedimentation ponds. Runoff from the mine yard will be channeled to the existing sedimentation pond at the eastern end of the mine yard. Surface runoff from undisturbed areas is diverted away from disturbed areas. The volume of water retained is the surface runoff only since no water will be discharged from the King No. 6 mine. A sedimentation pond has been built to contain runoff from the truck loading facility.

The disturbed area for the South Fork facility yard, including the sedimentation pond, is approximately 10 acres. The access corridor, which includes the haulroad and conveyor system, totals approximately 19 acres of disturbed area. The truck loading facility and the associated sedimentation pond amount to a 3 disturbed acres.

The overland conveyor belt at King 6 mine has been raised to meet clearance requirements. A clearance letter can be found in Appendix III-10.

Hiawatha Processing Plant and Waste Disposal Sites. The processing plant at Hiawatha is located immediately north of the town and is on U. S. Fuel Company fee land. Although U. S. Fuel Company owns the complete town of Hiawatha in fee, including buildings, the permit area only includes mine related boundaries. Table III-4 gives a list of major capital equipment associated with the processing plant facilities. The plant was built in 1938. It has a capacity to wash, size, and thermal dry 400 tons

of coal per hour. Slurry discharge from the plant is channeled through a resin recovery process where resin is extracted by froth flotation. From the resin plant, slurry is discharged into impoundments where it is stored, allowed to dry and eventually reclaimed for shipments to coal markets. Exhibit III-14A shows the location of the coal processing waste disposal sites. Some coal fines are being sold from the slurry, but the impoundments will increase in size. Slurry pond embankments are constructed of refuse material derived from the coal washing process. A stability analysis for slurry impoundment #1 appears in Chapter XII, Appendix XII-3 Slurry Impoundment Stability Approvals by MSHA, Figure 1 and 2 for Slurry Pond #1. Safety factors for slurry ponds 4 and 5 are found in Appendix XII-5, Stability Investigation of Refuse Dams and Slurry Ponds. Ponds 2 and 3 are smaller than the size required for such studies and are abandoned.

Refuse material can sometimes amount to as much as 20 to 30 percent of the mine run coal. Plans are being considered for installation of a new processing plant adjacent to the existing one but not as a part of the permit application at this time. Also proposed are plans for the construction of a unit train loading facility which will be installed north of the processing plant shown on Exhibit III-3. More information on the unit train loadout can be found in Appendix III-9.

Water for domestic and industrial use at Hiawatha is presently supplied by two water systems. The main supply consists of an 8 inch diameter (minimum) water line extending from the Mohrland mine portal along the Utah Railroad right-of-way to four water tanks near the old King 1 tramway. These tanks have a total capacity of 245,000 gallons and are interconnected at a manifold box. Inflow to these tanks varies between 500 and 1,200 gallons per minute, depending on seasonal influences. From the manifold box, a line extends to the coal preparation plant and another line connects with a chlorinator building and a 40,000 gallon holding tank (town tank). The standby system, the South Fork system, consists of a 6 inch line from the King 3 mine drain tunnel through a 124,000 gallon concrete tank to the upper part of town.

Table III-4
List of Major Capital Equipment
Hiawatha Coal Preparation Plant Facilities

Buildings and Structures

400 Ton/Hr. Coal Preparation Plant (Washing, Drying, Sizing)
480 Ton/Hr. Truck Unloading Facility
100 Ton/Hr. Fine Coal Recovery System
12,000 KV Main Electrical Substation
Machine Shop
Carpenter Shop
Resin Recovery Plant

Yard Areas

Railroad Yards
Five Slurry Impoundments with Refuse Embankments
15,000 Ton Coal Stockpile Area

Mobile Equipment

3 - 15 Ton Haul Trucks
2 - 20 Ton Caterpillar D 330 Haul Trucks
2 - Terex 72-61 Front End Loaders
1 - Caterpillar 988-B Front End Loader
1 - D6 Caterpillar Dozer
1 - 14E Caterpillar Road Grader
1 - P&H 18 Ton Crane
1 - Mack Truck and Lowboy

The present sanitary sewer system in Hiawatha is old. It consists of a collection system with a few manholes and a septic tank - evaporation lagoon disposal system. No mining operation liquid wastes are discharged into the sanitary sewer system. Surface runoff from the town is diverted through channels and culverts away from mining operations. The runoff is eventually deposited in watershed drainages. Surface runoff from the slurry ponds, refuse stockpiles, and processing operation is retained in sedimentation ponds.

Coal is currently being truck hauled from the Middle Fork mine operations, processed at Hiawatha, and loaded on rail cars on Utah Railroad's spur. The total disturbed areas for Hiawatha is approximately 220 acres, which includes the loadout facility that will be constructed on previously disturbed areas.

The proposed unit train loadout, shown on Exhibit III-3, is scheduled for construction in 1985 in order to meet contract requirements for IPP. This loadout is to be located entirely within the disturbed area as delineated on Exhibit III-3 and is within the area covered by the associated reclamation plan. This site is already protected by ditches and sedimentation ponds. Design drawings have been submitted as Exhibits, III-19, III-20, III-20A, III-21, III-21A, III-21B, III-21C. This area can be found on reclamation drawings III-14A.1 and III-14A.2.

Bonding of the area for reclamation was done when a bond for the total disturbed and proposed disturbed acreage for the Hiawatha Complex and Mohrland was posted with the Utah Division of Oil, Gas and Mining.

As the general area of the tipple, tracks and lower yards have been used by the mining operation since the early 1900's all of it has been impacted. No topsoil materials exist in this general area. The area of the proposed unit train loadout is presently covered by old coal refuse.

Although limited detailed plans on the loadout are available, the basic layout illustrated on Exhibit III-3 will remain the same. The existing runoff control structures have been more clearly defined on revised Exhibit III-3. Plans to construct this facility will be carried out within the next year.

The state road crossing of Highway 122 over the railroad tracks will be relocated approximately 550 feet south of its present location. All

involved parties have been contacted and have provided their approval. A public hearing has been held and no comments were received. Letters documenting these approvals can be found in Appendix III-9.

3.3 UMC 784.11 Operation Plan: General Requirements

King 4 mine. The King 4 mine is located in sections 13, 24 and 25, T.15S., R.7E.; and sections 18, 19 and 30, T.15S., R.8E., SLBM. It is bounded by the Bear Canyon fault on the west, property boundaries on the north, coal seam outcrops on the east and mined-out workings of the King 1 mine on the south. Portals are located in the Middle Fork canyon of Miller Creek, 3 miles northwest of Hiawatha. The mine was opened in 1974 when haulage and ventilation entries were driven outward from the northern extension of the King 1 mine to the B seam outcrop in Middle Fork. Once portals were established, the King 1 mine which had been mined out in earlier years, was sealed off and abandoned to the south. A set of entries which connect with South Fork were left open and maintained for access and ventilation but are now sealed.

The mine area includes approximately 3,000 acres, of which 2,250 acres contain fee coal owned by U. S. Fuel Company. 720 acres are held under Federal Consolidated lease No's. U-026583 and U-058261; and 30 acres are under Federal lease No. SL-069985. Production varies between 600,000 and 800,000 tons per year depending on many factors from local mining conditions to labor and market influences. Table III-5 has a summary of mining methods and estimated productivities for all of U. S. Fuel Company's proposed and operating mines. At the present time, mining is being done almost entirely in the B seam. One section has operated in the A seam near where the A and B seams converge forming a single bed. Exhibit III-6A shows the projected mine plan by year for the King 4 A seam. However, extensive development of the A and Hiawatha seams will be delayed pending extraction of the overlying B seam.

Development of the B seam in the King 4 mine is generally in an up-dip direction toward the northern boundary of the property.

Table III-5
Mining Methods and Estimated Productivity

<u>Mine</u>	<u>Seam</u>	<u>Mining Methods</u>	<u>Production Date</u>	<u>Estimated Productivity</u>
King 4	B	Continuous Miner Room and Pillar	Operating	700,000 Tons/Yr.
King 4	A	Continuous Miner Room and Pillar	Operating	200,000 Tons/Yr.
King 5	B	Continuous Miner Room and Pillar	Operating	250,000 Tons/Yr.
King 5	A	Longwall and	2000	450,000 Tons/Yr.
King 6	Hiawatha	Continuous Miner Room and Pillar	Operating	384,000 Tons/Yr.
King 7	Hiawatha	Continuous Miner	1988	1,200,000 Tons/Yr.
King 8	Upper	Longwall and Room and Pillar	1990	900,000 Tons/Yr.

The mine is laid out to accommodate four continuous miner sections operating on (2) two shift per day basis with a third (midnight) shift reserved for maintenance and catch-up operations. Exhibit III-6B shows existing workings and projected development for room and pillar mining in the B seam. Mining consists of driving 5 or 6 entry main development headings, off from which room and pillar panels are later extended. Entries and crosscuts are driven 20 feet wide and generally on 100 foot centers, though 60 and 80 foot centers are occasionally used. Crosscuts are turned either at 60 or 90 degrees to the entries. Crosscuts at 60 degrees allow for better haulage and equipment mobility; whereas, 90 degree crosscuts provide greater roof support.

Room and pillar panels are developed by driving 3 to 5 parallel entries to the boundary of a coal block and extracting pillars in a retreat fashion while picking up two to four additional rooms on either side of the development entries. Both full and partial extraction methods are employed depending on local roof conditions, as shown on Plates III-2 and III-3. With the full extraction method, coal is mined in step fashion which allows the roof to cave on a controlled break line across the full width of the mined-out panel. Once the breakline is established, pressure is relieved from adjacent abutments allowing mining to proceed in a safe sequence. With the partial extraction method, pillars are mined by splitting from several directions while leaving stumps of coal to support the roof. The size of the stumps vary from place to place depending on local roof conditions and judgement of the section foreman.

Each mining section uses one continuous miner served by two shuttle cars. The shuttle cars relay coal from the miner in the face area to a conveyor belt feeder-breaker located 100 to 300 feet back of the face. From the feeder-breaker, coal is transported on a series of roof-hung, wire rope supported, belt conveyor to the haulage portal and truck loading facility. Mining progresses in a sequential pattern, generally beginning on the return air side of a development heading and progressing to the intake air side while advancing each entry from 20 to 100 feet. This allows roof bolting and cleanup operations to be carried out in adjacent entries simultaneously with mining.

The present miner inventory consists of three Lee Norse oscillating head miners, one Lee Norse HH-546 Hardhead miner and one Joy 12CM6 miner. Shuttle cars are of the Joy 10SC type. Other equipment used in the miner section includes Galis 320A and Lee Norse TDI-43 roof bolters; Stamler BF-17B and Rosco feeder-breakers; Pemco 750 KVA power centers and Elkhorn AR-95 battery powered scoops. Table III-6 gives a list of the general underground equipment in King's No. 4 and 5.

Plate III-2

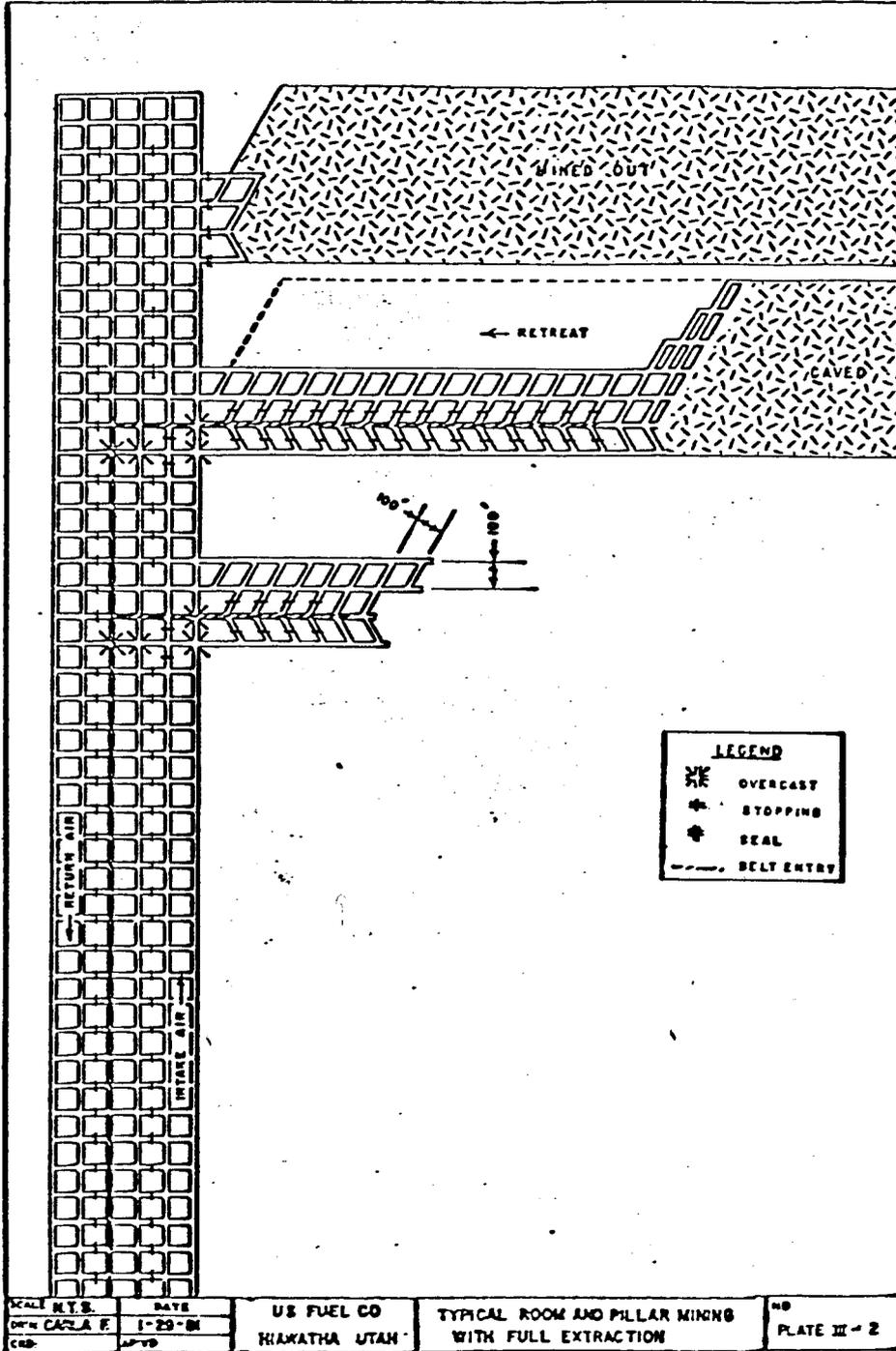


Plate III-3

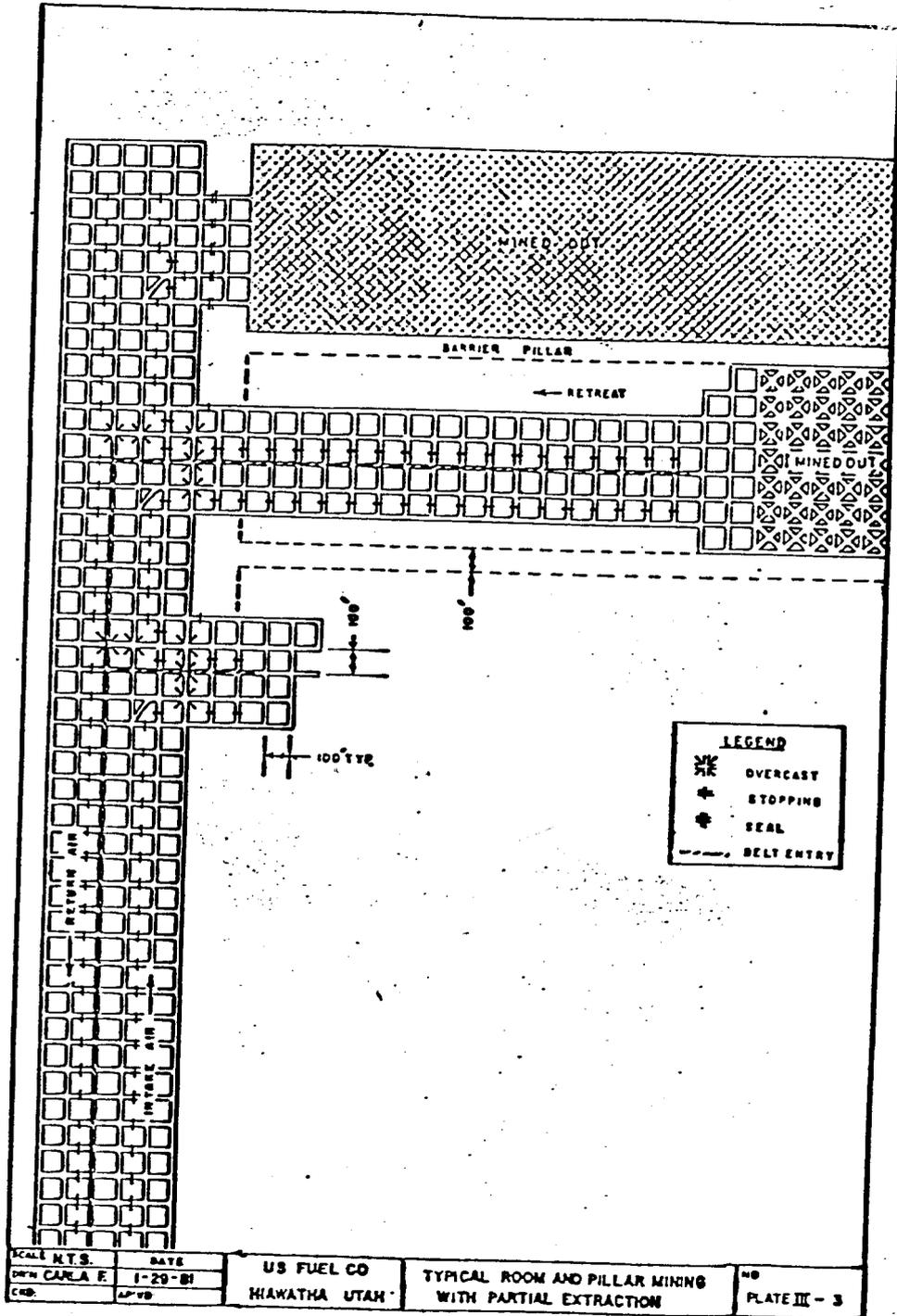


Table III-6
General Underground Equipment
King No. 4 and 5

- 1 - Lee Norse MC45E Continuous Miner (K4)
- 1 - Lee Norse 106H Continuous Miner (K4)
- 1 - Lee Norse HH06 Continuous Miner (K4)
- 1 - Joy 12CM6 Continuous Miner (K4)
- 2 - Joy 12CM6 Continuous Miners (K5)
- 10 - Joy 10SC Shuttle Cars (K4)
- 4 - Joy 10SC22 Shuttle Cars (K5)
- 2 - Lee Norse Roof Bolters (K4)
- 2 - Lee Norse Roof Bolters (K5)
- 1 - Galis Roof Bolter (K4)
- 2 - Joy Roof Bolters (K4)
- 1 - Fletcher Roof Bolter (K4)
- 7 - 750 KVA Section Power Centers (K4)
- 3 - 750 KVA Section Power Centers (K5)
- 2 - Joy 11BV Loaders (K4)
- 6 - Elkhorn Battery Scoops (K4)
- 3 - Eimco Diesel Scoops (K5)
- 3 - Rosco Feeder Breakers (K4)
- 5 - Stamler Feeder Breakers (K4)
- 2 - Stamler Feeder Breakers (K4)
- 20,000 Ft. 42 In. Belt Conveyor Systems (K4)
- 5,000 Ft. 36 In. Belt Conveyor Systems (K4)
- 8,000 Ft. 42 In. Belt Conveyor Systems (K5)
- 13 - Trolley Locomotives (K4)
- 4 - Air Compressors (K4)
- 2 - Air Compressors (K5)
- 4 - Railrunner Personnel Carriers (K4)
- 9 - Mine Jeeps (K4)
- 2 - Eimco Diesel Mantrips (K5)
- 4 - Kubota Boss Buggies (K5)

Mining of the A and Hiawatha seams in the King 4 mine will be greatly influenced by the nature of B seam mining above. Due to the small rock interval between seams, and concentrated stress resulting from overlying mined out workings, longwall mining techniques are being considered. Since detailed plans for mining the A and Hiawatha seams will depend on the final configuration of mining in the B seam, none are presented at this time.

Coal is transported from each mining section to the portal on a series of wire rope supported belt conveyors. All mainline belts and most submain belts are 42 inches wide. A few 36 inch belts are also used. Conveyor segments vary in length from 2,000 to 3,000 feet and are powered by Continental, Long Airdox, and shop fabricated drives ranging from 75 horsepower to dual 150 horsepower. From the haulage portal, coal is combined with that derived from the King 5 mine and conveyed to a 13,000 ton storage pile in the Middle Fork mine yard. From here it is reclaimed, weighed and hauled to the processing plant in 25 ton, bottom dump trucks. Personnel and supplies are transported underground by a 42 inch gage track network using a variety of General Electric and Jeffrey haulage motors, and Railrunner personnel carriers. Haulage and other equipment are repaired in a well equipped underground shop located near the manway portal.

Roof support procedures are carried out in accordance with plans approved by the Mine Safety and Health Administration. A copy of the MSHA approved roof control support plans along with the approved ventilation plans for King 4 are included in the Appendix III-2 of this chapter. A row of timber posts carried 5 feet apart and 5 feet out from one rib is installed in all entries and crosscuts. A variety of specific approved timbering methods are used in pillar sections. Roof bolts are installed on a spot bolting basis where roof conditions indicate a need. Both mechanical and resin bolts of 4, 5, and 6 foot lengths are used. In areas where bolts are needed, they are installed such that they are not more than 4 feet apart in either direction. Where conditions indicate a need, supplementary support such as additional bolts, longer bolts, posts, cribs or crossbars are installed.

The King 4 mine is presently being ventilated by a Jeffery 350,000 CFM fan that was installed in 1980 to replace the existing Joy La-Del axial flow fan that was located in the Middle Fork mine yard. Air is coursed through the mine by way of intake and return airways separated by well constructed cinder block stoppings. Overcasts and regulators are installed where needed to insure that each section is served by a separate split of air. Face ventilation is achieved by use of line curtains supported by timber posts located 5 feet out from one rib. Coal dust

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derived from mining is exhausted away from the face behind the line curtain. No axiliary face ventilating fans are used. Since King 4 is not a gassy mine, methane bleeder entries are not generally employed. All ventilation procedures are covered by MSHA approved plans.

King 5 Mine. Portals for the King 5 mine are located on the south side of the Middle Fork mine yard adjacent to the King 4 portals. Surface facilities are shared by both mines. The King 5 mine was opened in the spring of 1978. Mine workings are located in sections 29, 30, 31, and 32, T.15S., R.8E., SLBM. An area comprising 900 acres of fee land and 320 acres of federal lease land (SL-025431) could ultimately be mined if economical coal thicknesses (greater than 5.0 feet) persist throughout the reserve block.

Present production is 250,000 tons per year, derived from two sections operating on a one production shift per day basis in the B seam. Exhibit III-7B shows the B seam mine plan projections. The Hiawatha seam, which lies 110 feet below the existing B seam workings, was mined out in earlier years. No adverse effects from these old workings have been encountered to date. Portions of the A seam have also been mined out in this area. Plans for eventually redeveloping the A seam have been designed, Exhibit III-7A, although remaining portions will be difficult to mine since they lie only 20 to 30 feet above the mined out Hiawatha seam.

The King 5 mine has three portal openings, exhaust fan portal, belt haulage portal, and an intake air/manway portal. Once inside the mine, two additional entries are picked up, forming a five entry main development heading which is being driven due south through the center of the B seam coal reserve block between South and Middle Forks. Room and pillar extraction methods are employed similar to those in King 4 mine, Plates III-2 and 3. Room and pillar are extended east and west off the main headings.

The B seam thickness in this area averages about 5.5 feet, requiring the use of low profile mining equipment. Two mining sections employ Joy CM6 continuous miners and Joy 10SC22 shuttle cars. The underground equipment for King 5 is listed in Table III-6.

Coal is hauled by a 42 inch Long Airdox conveyor system powered by 150 hp dual drive unit. Coal is broken and fed onto the conveyor at a controlled rate by Stamler BF-17B belt feeders. The mainline conveyor operates at 570 feet per minute and can handle a maximum of 600 tons per hour. Coal from the King 5 mine is combined with coal from the King 4 mine at a transfer point near the portal where it is conveyed to 13,000 ton stockpile. Personnel are transported underground by diesel powered Eimco 950 mantrips and Elmac 605 Boss buggies. Equipment and supplies are transported by Eimco diesel powered scoops.

Roof control is the same as in the King 4 mine except that a full bolting plan is followed. The MSHA approved roof control and ventilation plans for King 5 are included in Appendix III-3 of this chapter. Bolts are installed on 5 foot centers in all entries and crosscuts. In the face areas, bolts are installed after every 20 foot advance in any mining place. Both resin and mechanical bolts are installed with Lee Norse TDI-36 and Joy RBD-81 roof bolting machines.

Ventilation is provided by a 6 foot diameter Sturtevant axiflo fan, exhausting 80,000 cubic feet of air per minute at 1.5 inches of water gage. Permanent and temporary stoppings are carried to within 300 feet of the last open crosscut in each section. Face ventilation and dust control are provided by line curtains installed on a row of timber posts 5 feet out from one rib and extended to within 15 feet of the face. Air quality and quantity are monitored by mine personnel on a routine basis. No methane gas has been detected in King 5 mine to date.

King 6 mine. The King 6 mine is located in the South Fork canyon which is just south of the present King 4 and 5 mines. To bring this mine on stream in 1981, various portal, conveyor, transportation, and production related work was done. Two portals existing from the abandoned King 3 mine were reopened for ventilation and one additional portal was constructed for access and coal haulage. Mine workings will be located in sections 25, and 36 T.15S., R.7E. and sections 29, 30, 31 and T.15S., R.8E.

The King 6 mine, as envisioned, will handle two continuous miner coal production sections. These sections, when fully on stream, will have a total capacity of 384,000 tons per year from the Hiawatha seam. These two sections will operate two shifts per day making a total of four production shifts per day. Production could average 400 tons per unit shift at full production. Portions of both the Hiawatha and A seam have been mined out previously in this area. The mining plan is presented on Exhibit III-8A.

The mine has three portal openings planned, intake air, belt haulage, manway, and return air. A five entry main development heading is being driven west in the Hiawatha seam. Exhibit III-8A projects the mine plans for the King 6 mine in the Hiawatha seam. Room and pillar extraction methods will be employed with panels extending north of the main heading. Table III-7 lists the underground equipment.

Roof control and ventilation plans have been submitted and approved by MSHA for the King 6 mine. A copy of the plans is in Appendix III-4.

Table III-7
Underground Equipment
King No. 6

The following mining equipment will be needed to start and sustain production from two mining sections:

Equipment

- 2 - Continuous Miners
- 4 - Joy 10SC Shuttle Cars
- 2 - Stamler Feeder Breakes
- 1 - Diesel Scoop
- 2 - Section Power Centers
- 2 - Roof Bolters
- 2 - Face Distribution Boxes
- 2 - Sections Water Pumps
- 2 - Aux. Face Fans
- 2 - Conveyor Terminals including
Power Centers
- 5,000 Ft. Conveyor Intermediate
- 10,000 Ft. Conveyor Belting
- 10,000 Ft. 15 KV Power Cable
- 10,000 Ft. 4 In. Water Pipe
- 1 - Lot Mine Communication
Equipment
- 1 - Lot Fire Protection Equipment
- 1 - Lot Safety Equipment
- 4 - Diesel Mantrips
- 1 - Portable Air Compressor
- 1 - Bulk Rock Dust Tank
- 1 - Rubber Tired Rock Duster
- 3 - Trickle Dusters
- 3 - Bantam Rock Dusters
- Misc. Electrical Cable

Operation Plan General Requirements

All dams, embankments, impoundments and diversion structures will be routinely inspected and maintained by Company personnel during mining operations. Vegetative growth will be cut where necessary to facilitate inspection and repairs. Ditches and spillways will be cleaned and repaired when conditions indicate a need. Sediment will be removed from sedimentation ponds when the volume of sediment accumulates to 60 percent of the design sediment storage volume. All impoundments having embankments greater than 20 feet in height or storage volumes greater than 20 acre-feet and which have not been abandoned in accordance with MSHA guidelines, will be inspected on a weekly basis. Impoundments will be examined for structural weakness, erosion and other hazardous conditions by a person certified under MSHA requirements.

A narrative explaining the construction, modification, use, maintenance and removal of topsoil storage areas is included in this plan under Removal, Storage and Redistribution of Topsoil under UMC 784.12 included under this submittal.

A plan for noncoal waste storage and disposal was submitted to the Division of August 13, 1981. A copy of the plan and the Division's approval letter is included in this response under Appendix III-11.

Plans For Protecting Oil, Gas and Water Resources

There are no known oil, gas or water wells within the lease area covered by this plan. All core drill holes put down from the surface for coal exploration have been completely plugged with cement. Any oil, gas or water resources encountered will be protected as determined necessary by the Mining Supervisor of the U. S. Geological Survey.

Justification For Not Recovering Coal Deposits

Justification for not recovering coal deposits that may be detrimentally affected in terms of future recovery by the proposed operations include the following:

- A. Seams that are too thin to be economically mineable given existing or reasonably foreseeable technology.
- B. Coal seams separated by insufficient rock intervals to allow safe mining above or below worked out areas.

- C. Seams that are relatively thick but not extensive, and isolated by thin coal which would make development cost prohibitive.

UMC 784.11a Use of Explosives

No explosives have been used for surface development in the past two years and no use is presently anticipated. Should this change in the future, U. S. fuel will notify DOGM and OSM of their plans and comply with the requirements of UMC 817.62 and 817.68. The explosive storage facilities are shown on Exhibit III-14A.

Socioeconomics

The revised employment of U. S. Fuel, based on deletion of the projected employment at King VII and VIII, appears below:

MINING EMPLOYMENT (King IV, V and VI Mines)
NUMBER OF EMPLOYEES

Current July 1983	1984	1985	1986	1987	1988	Life of Mine
281	264	265	300	365	380	380

Prime farmland
determination?

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3.4 Environmental Protection

Land Use

U. S. Fuel Company has been operating coal mines in the Hiawatha area since the early part of the century. Land use has remained relatively unchanged in the various topographies on the property over the years and is not expected to change significantly in the future. The land use picture is still and will remain primarily wildlife habitat and limited grazing. U. S. Fuel Company mining operations are located in the narrow canyons that lead to the top of the Wasatch Plateau, therefore, no cropland or prime farmland is within the mine area. Control measures needed to mitigate impacts shall include steps necessary to protect ground and surface water, soil resources, vegetation, wildlife and air quality.

Human Values - Historic and Cultural

A site search conducted by Utah's Division of State History located no known archaeological or cultural sites. Sites have been identified in the area but none are located on the property. In the event any paleontological remains are discovered during the mining operations, U. S. Fuel Company will notify the Division of State History.

Compliance with E011593 and the National Historic Preservation Act

U. S. Fuel contracted with Brigham Young University (B.Y.U.) through Asa Nielsen of the Department of Anthropology to conduct a field survey necessary for compliance with E011593. This survey was conducted at the Middle Fork of Miller Creek mine yard area where the new portal breakout is to occur. This area of new disturbance is projected to be only .5 acre and is attached directly on it's north boundary to the King 4 mine yard. No artifacts or sites were located here. Refer to Appendix III-12 for the body of this report.

No new disturbance under the term of this permit is projected at this time. The unit train loadout will be constructed on a presently disturbed mining area and therefore no survey will be required.

U. S. Fuel Company commits to maintaining a file of historical information pertaining to the town of Hiawatha. The file will attempt to collect available information on the history of Hiawatha.

Prior to the initiation of any new ground disturbance, U. S. Fuel Company will consult with OSM, the Utah Division of Oil, Gas and Mining and the State Historical Preservation Organization as to the need for a cultural resource inventory to be conducted on the area to be disturbed. If an inventory is required, all cultural resources will be properly evaluated in terms of National Register of Historic Places eligibility criteria. Appropriate impact mitigation measures will be developed, in consultation with the appropriate agencies, when if any such significant sites to be affected are discovered.

784.14 Protection of the Hydrologic Balance

Groundwater in the U. S. Fuel Company mine plan area flows through faults and old mine workings in a southerly direction along the dip of the formations. Groundwater is believed to exist in perched aquifers above the lowest mined coal seam. The water is collected at the old Mohrland mine portal and piped to Hiawatha. The water is of high quality and is used for municipal and industrial purposes.

In the past, U. S. Fuel had encountered substantial amounts of water when they mined into the Bear Canyon fault in 1972. This area has now been sealed. U. S. Fuel does not plan to mine adjacent to or into the fault during future mining operations. Hence, it is doubtful that future mining activities will affect hydrologic conditions along or associated with the fault.

Surface water exists in several small perennial streams in the mine plan area. The streams are recharged by rain, snow melt and springs occurring in the alluvium and colluviums of the channels. There is no discharge of water from mine workings, other than the abandoned Mohrland portal. The major contaminants have been suspended solids and oil and grease resulting from surface runoff from disturbed areas.

Control measures to mitigate impacts of disturbance include: stabilizing disturbed areas, diverting undisturbed runoff, reseeding of reclaimed areas, regulating channel velocity, and paving of roadways. Sedimentation ponds are used to control suspended solids and oil and grease contaminations from all disturbed areas.

A monitoring plan is detailed in Chapter VII for both ground and surface waters. Springs and streams are monitored for quantity and quality to detect any effects mining operations may cause. NPDES permits have been obtained for discharge locations in the mine plan area; their

requirements will be complied with and reported to the appropriate government agency. The U.S.G.S. maintains several water monitoring stations on and near the property.

Soil and Vegetation Resources

All of the current and projected mining areas have been disturbed because of mining operations prior to Act 95-87. Topsoil was not removed and stockpiled on any past operation. Several recent stockpiles have developed from small projects. They are shown on Exhibit III-4B and VIII-4A. The primary effects on in-place soil are expected to include compaction, loss of organic matter, contamination with coal fines and mixing with subsoil.

In areas where U. S. Fuel Company projects redeveloping abandoned surface facilities, an effort will be made to salvage any available topsoil. The surface facilities in existence, at the time of reclamation will be removed and the area regraded and revegetated.

After the construction of the King VI conveyorline, truck loadout facility, and sediment pond, U. S. Fuel performed an interim revegetation program at this site. The revegetation activity was performed to establish a permanent and effective vegetation to reduce erosion and stabilize slopes.

The program was carried out during October of 1982. Included in Appendix III-13 is the Interim Revegetation Plan as it was approved and carried out.

Sites of the interim reclamation at King VI are located on Exhibit III-12B, IX-4A and IX-4B.

Sites of any future disturbance will be revegetated, where feasible, after construction or regrading if they occur prior to final reclamation.

Make statement regarding to topsoil removed, location of disturbance, and stockpile location

All available in situ topsoil will be salvaged where substantiated

No exhibit III-4B Soil Stockpiles

UMC 817.99 Slides and Other Damage

U. S. Fuel commits to immediately notify DOGM should a slide or other earth movement occur within the Hiawatha permit area that threatens life or property. Should earth movement occur on U. S. Forest Service administered property, they will also be notified.

UMC 784.21 Fish and Wildlife Resources

Some mining activities have been deleterious to our wildlife resources, but over the years most affected populations have adjusted to their altered environments. Future operations will alter the wildlife environments still further. The fish and wildlife consultation guidelines that the Division of Oil, Gas and Mining has suggested using to prepare the permit have been followed by the Division of Wildlife Resources in Chapter X. Measures to mitigate impacts to fish and wildlife will be employed. The areas disturbed will be kept to a minimum. All disturbed sites no longer needed for mining operations will be reclaimed according to approved reclamation procedures. Water qualities will be monitored and maintained.

Fish and Wildlife Plan

Three major concerns must be addressed in a wildlife protection plan for a coal mining facility situated such as the U. S. Fuel operation in Hiawatha. First, one must devise a plan to minimize the destruction of wildlife habitat during facility construction, and determine how to restore that habitat after completion of mining. Second, an assessment of operating impacts to wildlife must be made, and again a mitigation plan to minimize these impacts should be devised. Finally, any unique wildlife impacts (e.g. construction within a critical habitat as defined in Section 7 of the Endangered Species Act of 1973) need to be assessed and mitigated.

In the case of King IV, King V and King VI, and their associated prep-plant at Hiawatha most of the options connected with protecting and/or minimizing such wildlife impacts related to construction have been precluded. The facilities are in place and very little additional construction is planned. To date, approximately 332 acres have been disturbed. Approximately 121 acres of the 332 developed acres will not be reclaimed after the mine closes (see Table X-1, Ch. X). This consists of the town of Hiawatha, railroad (owned by Utah Railway), and paved roads. Another 25 acres maybe disturbed during topsoil borrow operations. These 25 acres, plus the 210 acres of disturbed lands that will not remain as town or roads will be reclaimed to wildlife and range habitat.

Aquatic and Riparian Habitats

There are no fishes residing in the watershed associated with King IV, V, and VI mines; therefore, the management strategy for aquatic and riparian habitats need be only concerned with protecting wildlife values. The perennial stream flows have limited values as aquatic habitats, but do support furbearers such as beaver; in addition, these flows ensure the continued existence of the narrow riparian habitat alongside the streams. The value of this community is exemplified by the fact that over 50 percent of the species utilizing the U. S. Fuel permit area can be found associated with riparian habitat. Also, U. S. Fuel is aware of Executive order 11988 that mandates protection of riparian habitat by federal agencies. All flows are the result of natural runoff which are not controlled by U. S. Fuel except for a diversion on the North Fork placed on the creek in the 1920's. There are no plans to interfere with this natural runoff process.

Additional measures taken by U. S. Fuel to protect the aquatic and riparian habitats include sedimentation ponds at all points where ground-clearing disturbances could result in runoff carrying sediments into Miller Creek (see Section 784.13 for details on sediment control structures) at topsoil borrow areas; refueling and vehicle maintenance areas are situated so that accidental spillages of petroleum products can not enter the creek; and in-as-much-as possible, isolation of the creek from coal mines by installing runoff basins and placing roads away from the creek should prevent siltation.

All existing haul roads in the permit area are paved and culverts are riprapped at both ends. No new crossings are proposed, however, should any new crossings be required, impacts to riparian areas will be reduced or avoided by providing stream buffer zones of at least 100 feet from the edge of the stream to the road or other disturbance. At crossings or at other places where new disturbance is unavoidable, variances will be sought for such disturbance. At any areas so impacted, the vegetation will be restored to a riparian conditions when disturbance is corrected by the use of seed mixture No. 4 (UMC 786.19) which also has nursery grown stock for trees and shrubs.

Reclamation will be done on 10.5 acres of the 15 total acres of disturbed riparian habitat within the permit area. Some riparian areas originally disturbed will not be reclaimed; these amount to 3.5 acres which include areas in the town of Hiawatha and railroad intrusions into riparian habitat. These lie outside of U. S. Fuel's responsibility for reclamation. Road crossings associated with mining amount to about 1.0 acres. This permanent loss will be mitigated onsite by adding to riparian habitat at Middle Fork during the pad restoration (Exhibit IX-3B).

Should U. S. Fuel find it necessary to disurb riparian vegetation, it will contact the Division for guidance on this matter.

OSM has requested that a determination be made of wildlife usage of springs on the plateau above the mine. No species-by-species quantitative data exist, but according to Larry Dalton, Utah Division of Wildlife Resources (personal communication 2 November 1983), approximately 70 percent of the wildlife species depend on the springs for one reason or another. Mr. Dalton believes that trying to quantify usage on a species specific basis would yield ambiguous information; hence would be a waste of U. S. Fuel's money. U. S. Fuel therefore pledges that should spring surveys reveal that mining is diminishing the wildlife water supply, they will develop another source. (see Big Game section following), and also take measures, such as plantings to make improvements at such developed sites for all wildlife not just big game.

Big Game Habitat

The Hiawatha permit area has important herds of big game animals residing in the area on a yearlong basis. On the mountains to the west and above the mining operations is summer range for mule deer and Rocky Mountain elk. Most of this area is located on outcrops of the North Horn Formation where subsidence is not expected to impact springs (see UMC 784.14 Reclamation Plan: Protection of the Hydrologic Balance). Within those areas potentially affected by subsidence, a combined spring flow of 24 gallons per minute was measured in October 1983 from 11 springs issuing from formations stratigraphically lower than the North Horn Formation. These springs are located in the upper Miller Creek watershed in sections 7, 18, 19, 30 and 31 of T. 15 S., R. 8 E.

The groundwater monitoring program for the area has been revised to include three of the springs that issue from the Castlegate Sandstone, below the North Horn Formation. Monitoring of these springs and streamflow in the various forks of Miller Creek above surface operations will provide sufficient data to assess subsidence impacts. As sections within the mines are fully extracted and subsidence is detected on the surface either by the subsidence monitoring program or during routine sampling trips, the areas of subsidence will be checked for loss of spring flow. If any springs or streams are eliminated due to subsidence, U. S. Fuel will immediately notify DOGM for a regulatory agency assessment of the magnitude of the impact. Based on regulatory findings, mitigation, if necessary will be implemented. Such mitigations could include installation of guzzlers, development of new springs, windmills, and perhaps location of any developed water sources will be coordinated with the regulatory agency in charge.

The canyon bottoms and lower slopes provide important winter range for elk and deer. The small amount of habitat now occupied by facilities represents a rather minor area impact on the wintering range, but the proximity of mining personnel to these animals during winter weakened conditions is a greater threat. Poaching and harrassment at these times can result in severe losses.

All efforts will be made to educate company personnel on these matters. U. S. Fuel commits to providing the Utah Division of Wildlife Resources (DWR) wildlife education program and to discourage the carrying of weapons in vehicles on company property. Furthermore, U. S. Fuel will terminate any worker found poaching on company time and cooperate with authorities in investigating poaching on company property.

Conveyors and similar facilities have been known to impede movements of migratory big game species. Therefore, a means of passage, either over or under such facilities is desirable. The one conveyor existing at present in the Hiawatha permit area is King VI. It has been designed to permit deer to cross under it, with passages of at least 1-meter in height space at intervals as suggested in DWR publications Coal Conveyors and Mule Deer Movement (1981). This conveyor has been inspected and passed by the DWR (see attached letter in Appendix III-10). The conveyor design is shown in Exhibit 4.

Those big game habitats that have been modified or destroyed by the Hiawatha operations will be restored to original or better conditions (see revegetation plan for details). This includes the mine portal areas (the roads will remain in place) where shrubbery and tree species will be replanted, and at the refuse piles and top soil substitute area where grasses and forbs of high nutritional value to wildlife will be planted (see regetation plan).

A determination of deer and elk numbers utilizing critical and high priority habitats in the permit area has been requested by OSM. According to Larry Dalton of Utah Division of Wildlife Resources (DWR) (Personal Communication 2 November 81) no such numbers are variable from year-to-year. Instead, DWR has identified critical and high priority habitat. The amount of such habitat in the permit area is shown below:

Critical elk winter range	8,360 acres
High priority elk winter range	1,017 acres
High priority elk summer range	3,335 acres
Critical deer winter range	8,360 acres
High Priority deer summer range	3,335 acres

A map of big game utilization of the permit area appears on Exhibit X-3A.

Raptors

Raptors which are of high federal and state interest include hawks, eagles, owls and ravens. Impacts to these species should not increase over the next permit term because additional construction that would destroy or encroach upon nests or perches is not anticipated. Since disturbance has occurred in the mining area for generations, it is assumed the any nesting raptors are acclimated to it. Should occupied raptor nests be found in areas where future mine expansions are planned, U. S. Fuel will notify the Division and conduct a special study if the Division recommends it.

A survey of the U. S. Fuel power lines was conducted by the U. S. Fish and Wildlife Service to determine whether their construction meets Federal standards. A letter confirming this to be the case is appended. U. S. Fuel will follow the guidelines contained within Environmental Criteria for Electric Transmission Systems (U. S. Department of Interior, Forest Service, 1970) and Rural Electrical Administration Bulletin 61-10 for design of all future power line installations associated with mining operations at Hiawatha.

General Wildlife Mitigation

Utilizing past vegetation surveys, a high resolution vegetation map has been prepared (Exhibit IX-1A). This will assist in reclamation of areas of future disturbance, as well as assist in estimating what habitat types have been previously disturbed. Table X-2, Ch X depicts total vegetation community acreages in the permit area, plus disturbance. Based on this information U. S. Fuel pledges to restore disturbed lands to at least equal conditions as prior to disturbance by utilizing plant species with high nutritional values, perhaps exceed the original wildlife values. Table IX-8 shows the vegetation approach that will be used on a habitat-by-habitat basis. Refer to Chapter IX for Table IX-8.

U. S. Fuel will take all efforts to avoid disturbing dense stands of aspens, conifers and mixed stands of each. The value of these habitats to wildlife is recognized so that precautions will be taken to ensure their integrity.

U. S. Fuel is providing water to the BLM from it's Mohrland water supply for wildlife and cattle use on BLM lands south and east of Mohrland. This water is being used for habitat enhancement as part of a BLM pinyon-juniper chaining project. Since the water is being provided at a loss to U. S. Fuel, it is the contention that this should be considered a U. S. Fuel wildlife enhancement project.

U. S. Fuel will cooperate with the Division of Wildlife Resources (DWR) in big game habitat improvements in the permit area. Presently U. S. Fuel is revegetating 10 acres accidentally burned by fire during the summer of 1984. Prior to that time the area was dominated by sagebrush and provided little wildlife forage. In an attempt to enhance the forage value at this site seed mix #1 from our final reclamation plan was applied and the area was hydromulched at the rate of one ton per acre with Conwed 2000 mulch and tackifier.

Any denning areas for bears or snakes discovered in the permit area will be reported to the Division. Should a snake den be found where worker harassment is likely, U. S. Fuel will construct a chainlink fence around it.

U. S. Fuel will clear pesticides with DWR prior to utilizing them in outdoor situations that could impact wildlife.

Any temporary exploration roads will be reclaimed by a revegetating them with appropriate techniques. They will be blocked by boulders or some other method to ensure that they do not become permanent roads.

Air Quality

U. S. fuel Company has a thermal drying unit for the preparation of the coal at Hiawatha. Air quality monitoring in the form of stack emissions will proceed as per the request of Utah's Bureau of Air Quality.

Fugitive dust will have an impact on the air quality. Several sources of fugitive dust are:

1. Middle Fork and South Fork truck loading facilities
2. Access roads
3. Ventilation fans
4. Coal handling facilities
5. Coal slurry and refuse impoundments

The plan for fugitive dust control will include the following measures to control fugitive dust in the above areas:

1. Periodic watering of unpaved roads on a frequency as needed basis;
2. Frequent blading and shaping of unpaved roads to stabilize the road surface;
3. Paving of roads;
4. Restricting the speed of travel;
5. Substituting of conveyor systems for haul trucks and covering of conveyor systems;
6. Minimizing the area of disturbed land;
7. Prompt revegetation of regraded lands;
8. Use of alternatives for coal handling methods, restriction of dumping procedures, wetting of disturbed materials during handling, and compaction of disturbed areas;
9. Extinguishing any areas of burning or smoldering coal and periodic inspections for coal burning areas whenever the potential for spontaneous combustion is high; and
10. Restricting fugitive dust and spoil and coal transfer and loading points.

UMC 784.20 SUBSIDENCE CONTROL PLAN

Underground mining operations at U. S. Fuel Company's properties have been ongoing since the turn of the century. All previous mining was done by room and pillar methods. No significant subsidence effects have been observed to date. Other than access roads, fences and three or four stock watering ponds, there are no structures existing above past or projected mining areas. The majority of existing roads and ponds occur above areas that have been mined out more than ten years ago. No significant effects on these structures are evident.

Future plans may include longwall mining and room and pillar mining with full extraction. These methods could possibly have some effects on renewable resource lands. If subsidence occurs, it should occur uniformly over mined out panels. Fractures resulting from subsidence could contribute to changes in existing water patterns. Springs seeps, and stream flows could possibly be affected. Diminution of existing surface and ground water sources could possibly affect some livestock and wildlife watering sites at higher elevations. Water presently being used for

municipal, industrial and irrigation purposes should not be diminished to any great extent since water diverted into the ground would most likely return to mine openings, springs and streams near the top of the Star Point sandstone formation. No mining will be done below this horizon which is well above municipal, industrial and irrigation points of use. The effect of mining on the water supply is discussed in greater depth in Chapter VII.

A cooperative agreement between U. S. Fuel Company and the U. S. Forest Service exists for the monitoring of subsidence. U. S. Fuel Company has constructed and maintains target monuments at designated locations. The Forest Service has agreed to take aerial photographs, perform aerial triangulation and make point readings for subsidence monitoring. The Forest Service has also agreed to assist and cooperate with U. S. Fuel to determine the effects of undermining upon surface resources.

All surface lands above existing and proposed mining operations are owned by either U. S. Fuel or the U. S. Forest Service. There are no other surface owners. In the event subsidence results in significant damage to structures, they will be repaired or replaced to the reasonable satisfaction of the surface owner. Where material damage or significant diminution of value of the foreseeable use of lands occur, it will be restored to the extent reasonably possible to the satisfaction of the surface owner. Where significant livestock or wildlife watering sites are diminished and found necessary to be replaced, they will be mitigated by constructing watering ponds or troughs and pipelines from alternate water sources.

Waste Disposal Plans

Fine refuse from the preparation plant is stored in slurry ponds. Some of the fines once dried are sold to available markets. The coarse refuse is used for stabilizing the embankment slopes on the slurry ponds. Runoff from the embankment slopes is contained in sedimentation ponds. No coal processing waste disposal facility is proposed to return waste to abandoned underground workings. All underground development waste generated by the mining operation is disposed of in mined-out areas underground.

UMC 784.19 Underground Development Waste

Based on U. S. Fuel's past mining history at Hiawatha there has been only minimal amounts of underground development waste produced. This

*Coal Processing
Waste Bank
103-Cover Coal and
A+T forming*

waste has been associated with the development of portal entries or vent-shafts and in each case the waste has been used in the construction of pads at the portals etc. or used within the mine to fill low areas. Due to the limited remaining coal resources, U. S. Fuel is not proposing any new underground development which would produce underground development waste. Based on the fact that topographic, physiographic, geomorphic, geologic, pedogenic and hydrologic conditions vary greatly from one location to another within the bounds of the permit area and would also vary with the type of underground development which may be desired; providing general, non-site specific and non-project specific underground waste development plans at this point would not be in the best interest of DOGM or U. S. Fuel.

Occasional rock may be brought out through material handling and trash collection activities. Because of practical considerations, i.e. small quantities generated, distance from portals to the refuse pile and required equipment, temporary refuse storage is necessary. Temporary storage locations are utilized at each mine site. Refer to Plates III-8 and III-9.

Temporary storage locations are within the disturbed areas at the mine sites. Drainage from the site is contained by sediment ponds. The refuse is not toxic, hazardous or acid producing.

Based on the characteristics, handling and disposal of various waste products, the impact on the environment is minimal. The slurry refuse does not go into the hydrologic system. The refuse material is deposited in two foot maximum lifts and compacted to eliminate ignition.

Several non-coal waste disposal sites (for materials other than slurry or refuse) have been established. The plan and approval for these sites are located in Appendix III-11.

Refueling Station Storage and Containment

Fuel storage tanks (exceeding 500 gallons) are located near the equipment maintenance shop. One 10,000 gallon diesel and a 500 gallon unleaded gas tank are located inside of a concrete storage structure designed for total containment of the tank contents. This site is covered in U.S. Fuel's SPCC Plan which is on file in the engineering office.

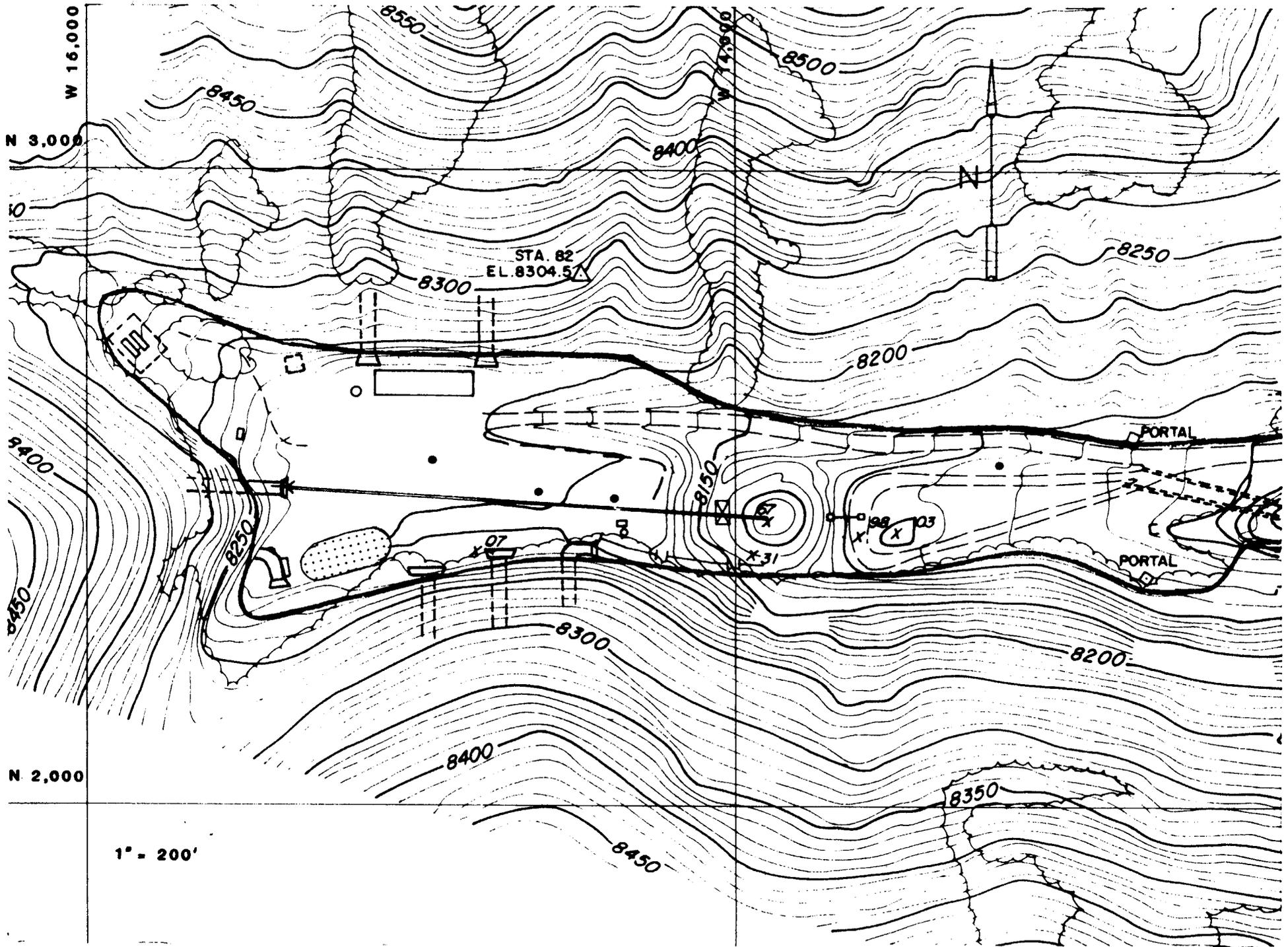


PLATE III-8 MIDDLE FORK TEMPORARY UNDERGROUND DEVELOPMENT WASTE STORAGE SITES

3.5 UMC 784.13 Reclamation PlanUMC 784.13(b)(8) Sealing of Mine Openings and Bore Holes

Upon final reclamation, all abandoned mine openings, bore holes, wells and other openings will be capped, sealed or backfilled in such a way as to prevent access by people, livestock, machinery, fish and wildlife and to prevent acid or toxic drainage from entering ground or surface waters. Mine openings will be sealed by backfilling as shown in Plate III-4.

Past monitoring has shown that mine water discharges are of good quality. No acid or toxic drainage has been detected. Mine water has been used for culinary purposes at Hiawatha for many years, therefore, it may be desirable to allow mine water to be piped through seals in some cases.

In the past, exploration bore holes have been sealed according to a plan recommended by the U.S.G.S., whereby multiple coal beds are cemented from the bottom of the hole to a point 50 feet above the highest coal bed that is 4 feet or greater in thickness. The hole collar is plugged with 5 feet of concrete. See Plate III-5. It is proposed to use this same method in the future unless holes are approved for water monitoring.

UMC 817.24 Redistribution and Regrading

The regrading of each level area during final reclamation of any portion of the permit area will be done using material from the fill portions of the various sites and any excess cut material which has been stockpiled. This material will be generally pushed back against the cut areas from where it originally came until the level areas have been eliminated and there is no discernable break in slope. Fill material will be recompactd to 90 percent maximum dry density (AASHTO T99-74 or equal) in lifts no thicker than 2 feet to provide for positive stability. The final lift will not be compacted to allow for root and water penetration. The surface of the final compacted lifts will not be smooth, but irregular to key in and hold the final layer of fill onto the slope. The final layer will subsequently be furrowed and scarified along the contour prior to placing the topsoil or substitute topsoil. The slope of the regraded surface will be varied to approximate drainages that existed prior to initial disturbance. Generally all regraded areas will have slopes of 2h:1v or less. For areas where fill heights exceed 10 feet the new fill areas will be keyed into the underlying level area.

*Proposed topsoil material
(fill material, excessive cut)
substantiate its use
Compact to only two ft
below surface... NO.
at least four feet*