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5/28-87	Vol 1-3			DD	
7/7/88	Vol 1-3	all plates		RUS	ICR Resubmittal
7/7/88	Vol 1-3			JRF	ICR Resubmittal
2-2-90	ii, iii, vi, vii, viii, I-1, II-1, I-7, I-10, I-11, I-12, I-13, I-14, I-15, I-16, I-16a, I-17, I-22, I-23, I-23a, II-1, II-2a, II-4, II-13, II-5, II-5, II-5a, II-14, II-14a, V-1, V-17, V-17a, VI-1, VI-2, VI-4, VI-5, VI-6, VI-7, VI-7a, VI-7b, VI-7c, VI-7d, Fig. b.b. 2, VI-9, VI-10, VI-10a, VI-31, VI-32, VI-33, VI-33a, VI-33b, VI-33c, VI-33d, VI-33e, VI-34, Appendix II, III-18, VIII-19a, IX-7, IX-12a, Appendix IX-1	I-1, I-2, II-2, II-18, II-1A, II-1B, II-1D, II-1E, V-1, VI-1, VII-1B		JWK	
4-11-90	Appendix I-2 Volume 1, Chap 1			J.E.	List a history of Kaiser NOV's
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	Cross sections and Borrowtree

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**APPLICATION FOR  
MAINTENANCE/RECLAMATION PLAN APPROVAL  
FOR  
HORSE CANYON COAL PROPERTY  
EMERY COUNTY, UTAH**

**DIVISION OF  
OIL, GAS & MINING**

**Submitted to:**

**State of Utah  
Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180**

**Submitted by:**

**Kaiser Coal Corporation  
102 South Tejon Street, Suite 400  
Colorado Springs, CO 80903**

**Prepared by:**

**JBR Consultants Group  
1841 E. Fort Union Blvd.  
Salt Lake City, UT 84121**

**List of Contributors:**

**Robert J. Bayer  
Brian W. Buck  
Jeffrey C. Collins  
Daniel R. Hadley  
Susan J. Hasenjager  
Karla D. Knoop  
Joseph M. Jarvis  
Clark A. Lin  
Elliott W. Lips  
Douglas C. Pearce  
Connie D. Pixton  
Thomas J. Suchoski  
Robert G. Walker  
Carl W. Winters**

GENERAL ORGANIZATION

VOLUME 1

Chapter I INTRODUCTION AND LEGAL/FINANCIAL  
Chapter II MAINTENANCE PLAN  
Chapter III RECLAMATION PLAN  
Chapter IV ENGINEERING DESIGNS

VOLUME 2

Chapter V GEOLOGY AND SUBSIDENCE  
Chapter VI HYDROLOGY

VOLUME 3

Chapter VII SOILS  
Chapter VIII VEGETATION  
Chapter IX WILDLIFE  
Chapter X CULTURAL RESOURCES, CLIMATE, LAND USE, AIR QUALITY  
Chapter XI ALLUVIAL VALLEY FLOORS

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DIVISION OF  
OIL, GAS & MINING

## GENERAL ORGANIZATION

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Chapter I	INTRODUCTION AND LEGAL/FINANCIAL
Chapter II	MAINTENANCE PLAN
Chapter III	RECLAMATION PLAN
Chapter IV	ENGINEERING DESIGNS

### VOLUME 2

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Chapter VI	HYDROLOGY

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# **CHAPTER I**

## **INTRODUCTION AND LEGAL/FINANCIAL**

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## 1.1 Introduction and Executive Summary

This permit application for the Horse Canyon (Geneva) Mine is submitted by Kaiser Coal Corporation, 102 South Tejon Street, Suite 400, Colorado Springs, Colorado, in compliance with the stipulated agreement between Kaiser and the Board of Oil, Gas and Mining signed October 23, 1986.

The Horse Canyon Mine is an inactive underground coal mine located in Emery and Carbon Counties, Utah within the Book Cliffs Coal Field about 120 miles southeast of Salt Lake City (see Location Map, Figure 1.1-1). It is more specifically located south of Kaiser's Sunnyside and Columbia Mines and north of Kaiser's South Lease Coal property (see Figure 1.1-2). The mine was initially opened by the Defense Plant Corporation in 1942 as the source of metallurgical grade coal for the Geneva Steel Works in Orem, Utah. The mine was sold to U.S. Steel in 1946, who operated the mine until January, 1984 when all mining was permanently suspended.

U.S. Steel submitted a permanent program mining and reclamation plan permit application on March 17, 1981 for the operations existing at that time consisting of 3120 acres of underground mine workings and approximately 87 acres of surface disturbances. On October 15, 1982, U.S. Steel informed the Division of Oil, Gas and Mining that it was temporarily suspending mining operations at the Geneva Mine. U.S. Steel

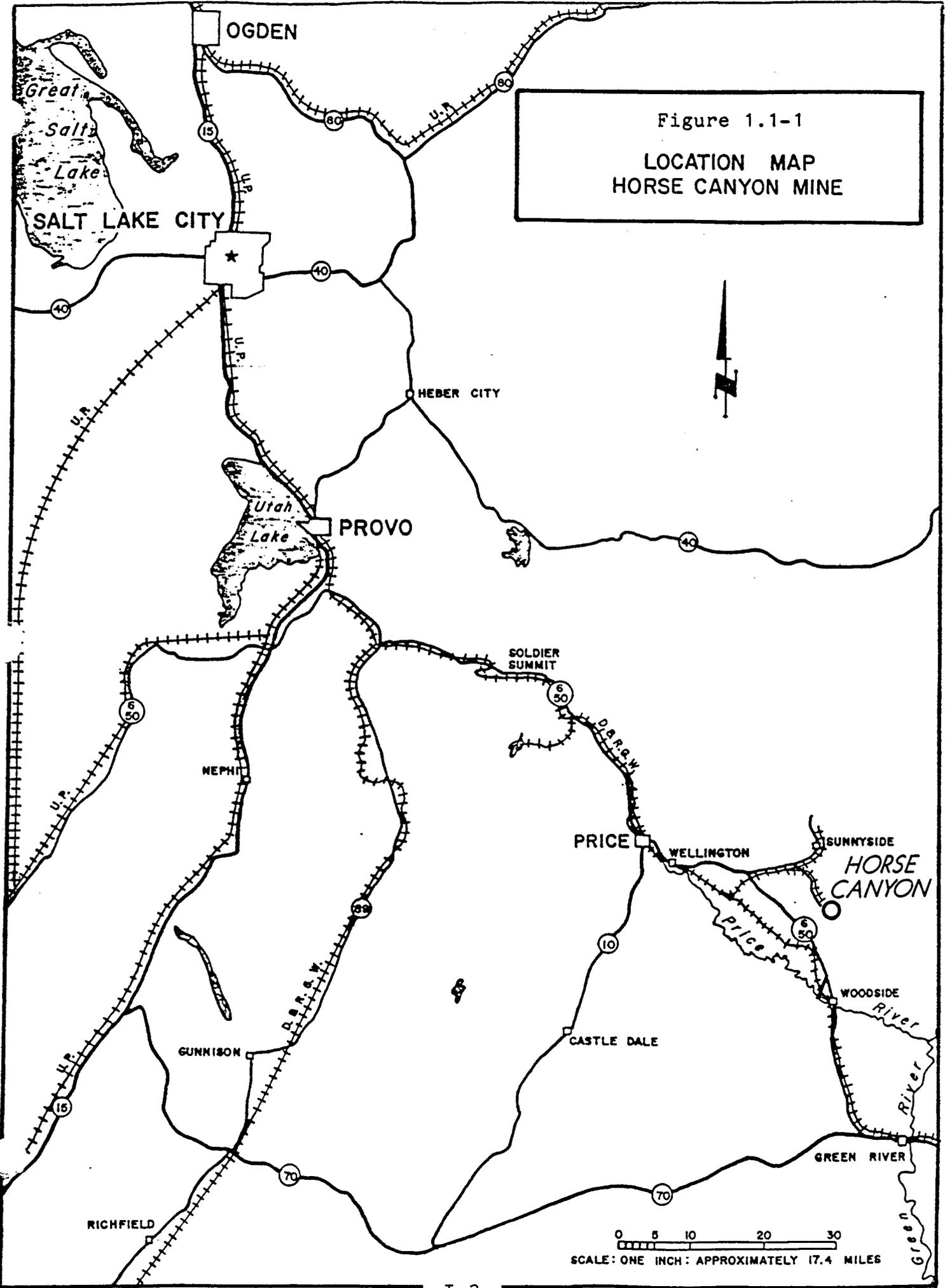


Figure 1.1-1  
 LOCATION MAP  
 HORSE CANYON MINE



0 5 10 20 30  
 SCALE: ONE INCH: APPROXIMATELY 17.4 MILES

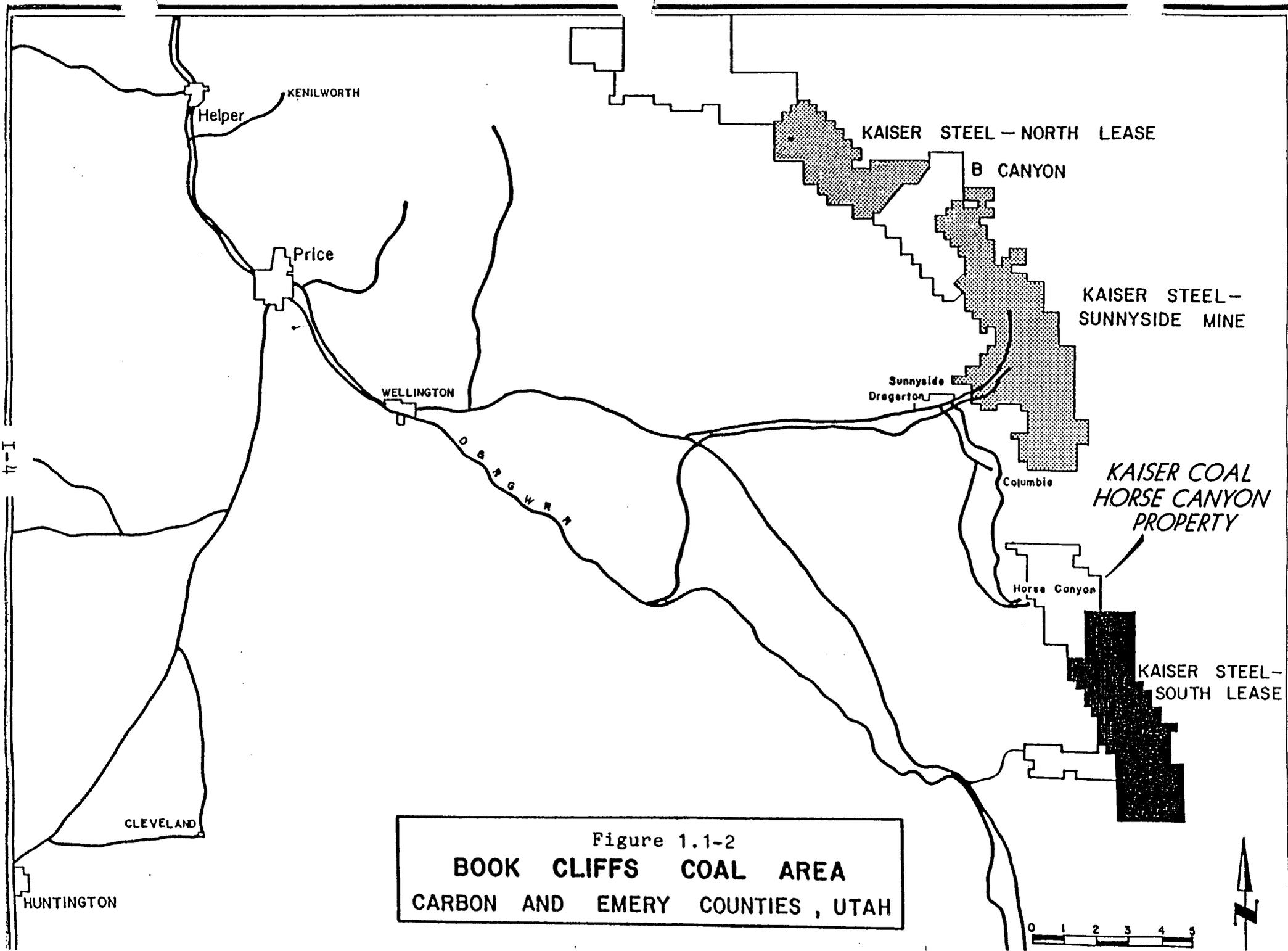


Figure 1.1-2  
**BOOK CLIFFS COAL AREA**  
 CARBON AND EMERY COUNTIES, UTAH

informed the Division of its plans to permanently suspend mining operations in January, 1984.

The Division of Oil, Gas and Mining responded to the permanent suspension of mining operations on April 9, 1984 when it informed U.S. Steel that it was proceeding with the review of the reclamation plan portion of the permanent program permit application and also provided its Determination of Completeness comments on same. Because of the negotiations between U.S. Steel and Kaiser Steel Corporation for sale of the Geneva Mine, U.S. Steel requested the Division to suspend its review of the reclamation plan on May 25, 1984. The Division complied with this request and also administratively terminated interim status for the operation on July 16, 1984. On September 28, 1984, the Board of Oil, Gas and Mining suspended review of the permanent program application until December 1984 and also ordered the potential purchaser (Kaiser) to submit a reclamation plan and bond by March 29, 1985. On November 11, 1984 Kaiser Steel Corporation purchased the Geneva Mine property from U. S. Steel and thereafter submitted a permanent program reclamation bond in the amount of \$918,649. Kaiser also indicated to the Division that it would maintain the operations in a temporary suspension status pending further corporate decisions as the future use of the facilities.

On October 21, 1986, the Board of Oil, Gas and Mining

entered a stipulation and order for Kaiser Coal Corporation, successor in interest to Kaiser Steel Corporation to submit by February 27, 1987 either its response to the Division's April 9, 1984 Determination of Completeness findings for the U.S. Steel reclamation plan or submit a new reclamation plan and maintenance plan. The maintenance plan was to comply with the requirements of 817.131 and the reclamation plan was to comply with the requirements of 784.13.

A revised reclamation plan was submitted by Kaiser on February 24, 1987 and was determined to be incomplete by the Division at a March 25, 1987 meeting with Kaiser representatives. On March 26, 1987 the Division and Kaiser reviewed the matter of the deficiencies with the Board of Oil, Gas and Mining and the Division informed the Board that it would order Kaiser to provide a complete mining and reclamation plan or a maintenance and reclamation plan within 45 days. At a May 7, 1987 meeting between Kaiser and DOGM representatives the final date of submission of this plan was agreed to be May 28, 1987.

Kaiser submits the following maintenance plan and reclamation plan to fulfill its obligations under the October 23, 1986 stipulated agreement. The maintenance plan addresses all of the requirements of UMC 817.131 for the present surface disturbances and also proposes designs and schedules for various modifications of the facilities to better provide for their

compliance with the permanent program performance standards. The reclamation plan addresses the final reclamation of the present facilities only and does not provide for the reclamation of any disturbances for continued mining. Kaiser therefore agrees that in the event that it or any other operator would propose to resume any mining activities at the present facilities, a new operating and reclamation plan would be submitted for the Division's review prior to commencing those operations.

To reflect the limited scope of the requested approvals, Kaiser has revised the previous U.S. Steel permit area boundary to include only the area of the present surface disturbances and the areas proposed for disturbance during reclamation activities. This permit area boundary includes approximately 556.35 acres plus or minus in the bottom of Horse Canyon (Plate I-1).

The maintenance plan addresses the applicable parts of UMC 817.131 and provides an accurate description of the present surface disturbances and the extent of previous underground mining activities. It also describes the reclamation accomplished to date, riprap protection of critical areas of erosion along the margins of the mine pad, vegetative stabilization of parts of the landfill area, reconstruction of the drainage and sediment control facilities including ditches, sediment filters, and sediment ponds, and various repairs to fences and other structures to provide for public safety.

The reclamation plan addresses all of the applicable parts of UMC 784 and 817 including post mining land use, demolition and cleanup of the surface facilities, permanent portal and drill hole seals, general site regrading, borrowing and redistribution of substitute topsoil material, reseeding and planting, drainage controls, subsidence monitoring and monitoring of water quality and revegetation success.

In accordance with the Division's February 1986 permit application guidelines, this application is divided into 11 chapters. The first three chapters provide the general descriptions of the issues and the appropriate commitments for mitigation while chapters four through eleven contain all of the baseline data, detailed designs and calculations. References between the chapters are clearly indicated throughout the text in the interest of avoidance of duplication.

The application is organized as follows:

CHAPTER I	INTRODUCTION AND LEGAL/FINANCIAL
CHAPTER II	MAINTENANCE PLAN
CHAPTER III	RECLAMATION PLAN
CHAPTER IV	ENGINEERING DESIGNS
CHAPTER V	GEOLOGY AND SUBSIDENCE
CHAPTER VI	HYDROLOGY
CHAPTER VII	SOILS
CHAPTER VIII	VEGETATION
CHAPTER IX	WILDLIFE
CHAPTER X	CULTURAL RESOURCES, CLIMATE, LAND USE, AIR QUALITY
CHAPTER XI	ALLUVIAL VALLEY FLOORS

## 1.2 Legal, Financial, Ownership

This section of the application principally covers the requirements under UMC 782 regarding the description of the applicant, the identification of other permits and licenses, a listing of notices of violation issued to Kaiser in connection with its other coal mining operations, and other legal and financial information.

### 1.2.1 Identification of Interests.

Kaiser Coal Corporation ("Kaiser") is the permit applicant and Kaiser Coal Corporation of Sunnyside is the operator for the maintenance and reclamation plan set forth in this permit application. Kaiser and Kaiser Coal Corporation of Sunnyside filed petitions in bankruptcy pursuant to Chapter 11 of Title 11 of the United States Bankruptcy Code (the "Bankruptcy Code") on February 13, 1987. These entities are debtors in possession of their estate in bankruptcy proceedings pending before the United States Bankruptcy Court for the District of Colorado ("Bankruptcy Court") as case numbers 87-B-01620E, 87-B-01621E and 87-B-01624E. This permit application is an asset of the estate subject to an Acquisition Agreement with Intermountain Power Agency ("IPA"), buyer, and Kaiser, seller, dated June 1, 1988. Closing of this Agreement has been delayed pending the United Mine Workers of

America's appeal of the Bankruptcy Court's approval of the sale. Upon closing of this Acquisition Agreement, it is the intent of the parties that IPA will assume reclamation responsibilities and seek the State's approval of the transfer of this permit application from Kaiser to IPA.

The address of Kaiser and Kaiser Coal Corporation of Sunnyside are:

Kaiser Coal Corporation  
P.O. Box 1107  
Raton, New Mexico 87740  
Telephone: (505) 445-2395

All legal or equitable surface owners of record of the areas to be affected by surface operations and facilities are shown on Plate I-1, surface ownership map and are set forth below:

LEGAL:

Kaiser Coal Corporation  
P.O. Box 1107  
Raton, New Mexico 87740  
Telephone: (505) 445-2395

EQUITABLE:

Intermountain Power Agency  
Los Angeles Department of  
Water & Power  
P.O. Box 111  
Los Angeles, California 90051

There will be no coal mining activities under this application. The coal ownership map, Plate I-2, identifies the following owners of coal estate for the previously mined areas. These owners are set forth below:

Kaiser Coal Corporation  
P.O. Box 1107  
Raton, New Mexico 87740  
Telephone: (505) 445-2395

United States of America  
Department of the Interior  
Bureau of Land Management  
Utah State Office  
324 South State  
Salt Lake City, Utah 84111

State of Utah  
Department of Natural Resources  
Division of State Lands & Forestry  
355 West North Temple, Suite 400  
III Triad  
Salt Lake City, Utah 84180-1204

The surface and coal ownership is tabulated by lot and quarter section in Appendix I-1.

IPA, a political subdivision of the State of Utah, entered into an Acquisition Agreement for Horse Canyon Mine dated June 1, 1988. IPA can be contacted as follows:

Ronald L. Nielson  
Fuel Supply Manager  
Los Angeles Department of Water & Power  
P.O. Box 111  
Los Angeles, California 90051  
Telephone: (213) 481-4104

The resident agent of the applicant (Kaiser) who will accept service of process is:

Denise A. Dragoo  
Fabian and Clendenin  
a Professional Corporation  
215 South State Street, 12th Floor  
Salt Lake City, UT 84111  
(801) 531-8900

The applicant, Kaiser Coal Corporation, is incorporated under the laws of the State of Delaware.

The name and address of Kaiser's President is:

Claude A. Bradford  
P.O. Box 65  
Kernville, California 92328  
Telephone: (619) 376-4340

The names and addresses of each director of Kaiser is as follows:

Bruce E. Hendry  
CRAIG HALLUM  
701 Fourth Avenue South  
Tenth Floor  
Minneapolis, Minnesota 55415-1655  
Telephone: (612) 342-0630

Stonie Barker, Jr.  
522 Codell Drive  
Lexington, Kentucky 40509  
Telephone: (606) 269-0972

James L. Marvin  
2930 Burning Tree Drive  
Franktown, Colorado 80116  
Telephone: (303) 688-6878

The shares of Kaiser and Kaiser Coal Corporation of Sunnyside are held pursuant to a plan of reorganization confirmed September 23, 1988. A copy of this plan can be obtained from the debtor's bankruptcy attorneys as follows:

Harrie F. Lewis, Esq.  
SHERMAN & HOWARD  
2900 First Interstate Tower North  
633 - 17th Street  
Denver, Colorado 80302  
Telephone: (303) 297-2900

The applicant currently owns the Horse Canyon Mine under the name Kaiser Coal Corporation. Applicant and affiliate corporations have within the last five years operated coal mines in the United States under the names of Kaiser Coal Corporation, Kaiser Coal

Corporation of New Mexico, Kaiser Coal Corporation of Utah, Kaiser Coal Corporation of Sunnyside, Kaiser Coal Corporation of York Canyon, and Perma Mining Corporation.

The officers and directors of Kaiser Coal Corporation of Sunnyside and Kaiser Coal Corporation of Utah are the same as those for Kaiser, as identified above.

Kaiser and its affiliates are now debtors in possession under Chapter 11 of the Bankruptcy Code and have divested themselves of all coal mining properties and permits with the exception of Geneva/Horse Canyon Mine Interim Mine Permit, INA/007/013, issued September 21, 1981 by the Utah Division of Oil, Gas & Mining.

Applicant, and/or applicant's affiliate corporations, previously held the following approved coal mining permits:

Sunnyside Mines  
Carbon County Utah  
Permit No. ACT/007/007  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining

Permit Approved January 6, 1986

York Canyon Underground Mine  
Colfax County New Mexico  
Permit No. 11  
State of New Mexico  
Energy and Minerals Department  
Mining and Minerals Division

Interim Program Permit Approved, January 8, 1979.

A new application under the permanent regulations has been filed, determined complete, and is pending.

West Ridge Mine  
Colfax County New Mexico  
Permit No. 1-A-2  
State of New Mexico  
Energy and Minerals Department  
Mining and Minerals Division

Permit Approved, June 25, 1986

Chimney Rock Mine (inactive)  
Archuleta County Colorado  
Permit No. C-023-81  
State of Colorado  
Department of Natural Resources  
Colorado Mined Land and Reclamation Division

Permit Approved, January, 1983

Colorado Coal Mine No. 1 (inactive)  
Huerfano County Colorado  
Permit No. C-024-81  
State of Colorado  
Department of Natural Resources  
Colorado Mines Land and Reclamation Division

Permit Approved, March, 1984

Potato Canyon Exploration Mine  
Permit No. E-3  
Colfax County New Mexico  
State of New Mexico  
Energy and Minerals Department  
Mining and Mineral Division

Permit Approved, October 30, 1979

Cimmaron Underground Mine  
Permit No. A23-8P  
Colfax County New Mexico  
State of New Mexico  
Energy and Minerals Department  
Mining and Minerals Division

Permit Approved, September 30, 1985

Ancho Canyon Exploration Mine  
Permit No. 28  
Colfax County New Mexico  
State of New Mexico  
Energy and Minerals Department  
Mining and Minerals Division

Permit Approved, April 14, 1982

Somerset Mine (inactive)  
Permit No. C-022-81  
Delta and Gunnison Counties Colorado  
State of Colorado  
Mined Land Reclamation Division

Permit Approved, October 11, 1983

Wellington Coal Preparation Plant (inactive)  
Permit No. ACT/007/012  
Carbon County Utah  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining

Permit Approved, December 30, 1985

The names and addresses of the owners of records of all surface and subsurface areas contiguous to any part of the proposed permit area are as follows:

Kaiser Coal Corporation and Affiliates,  
Debtors in Possession  
P.O. Box 1107  
Raton, New Mexico 87740  
Telephone: (505) 445-2395

United States of America  
Department of the Interior  
Bureau of Land Management  
Utah State Office  
324 South State  
Salt Lake City, Utah 84111

State of Utah  
Department of Natural Resources  
Division of State Lands & Forestry  
355 West North Temple  
III Triad, Suite 400  
Salt Lake City, Utah 84180-1204

George K. Porter and Jane Porter  
P.O. Box 461  
East Carbon City, Utah 84520

Josiah K. Eardley and Etta Marie Eardley  
2533 South Highway 10  
Price, Utah 84539

Appendix I-1 provides a breakdown of contiguous ownership.

The name of the proposed mine is the Horse Canyon Mine. The Mine Safety and Health Administration (MSHA) ID Number is 42-00100.

Kaiser currently controls surface in and around the permit area as indicated on the Surface Ownership Map, Plate I-2. At this time Kaiser has no outstanding bids or options on lands contiguous to the permit area but is actively marketing the entire property for sale and will inform the DOGM if a change in ownership occurs.

### 1.2.2 Right of Entry

Kaiser owns the property within the permit area as evidenced by the deed of sale dated November 15, 1984, in which United States Steel Corporation sold all of its interest in the surface and subsurface rights to Kaiser Steel Corporation, predecessor in interest to Kaiser Coal Corporation.

The legal description of the property within the permit area boundary is as follows:

Beginning at the SW corner of the SE 1/4 SE 1/4 of Section 5, T16S, R14E, SLBM; and running thence North 660 feet; thence East 2640 feet; thence North 660 feet; thence East 1980 feet; thence North 660 feet; thence approximately N 45 deg. East 4800 feet, more or less; thence approximately N. 70 deg. W. 1250 feet, more or less; thence West 250 feet; thence approximately N 28 deg. W 1320 feet, more or less; thence approximately N 65 deg. E 580 feet more or less; thence approximately N 13 deg. E 600 feet more or less; thence approximately N 82 deg. W 100 feet, more or less; thence approximately N 10 deg. E 1650 feet more or less; thence approximately S 88 deg. E 1030 feet more or less; thence South 260 feet; thence approximately S 88 deg E 550 feet more or less; thence approximately S 02 deg. W 1940 feet, more or less; thence East 300 feet; thence approximately S 20 deg. E 1550 feet, more or less; thence approximately N 68 deg. E 100 feet more or less; thence approximately S 20 deg. E 250 feet, more or less; thence approximately N 20 deg. W 1120 feet more or less; N 68 deg. E 2170 feet more or less; thence approximately N 20 deg. W 1120 feet more or less, thence approximately N 68 deg. E 600 feet more or less; thence East 200 feet; thence approximately S 20 deg. E 2800 feet more or less; thence approximately S 68 deg. W 300 feet more or less; thence South 500 feet; thence West 1200 feet; thence South 300 feet ; thence East 450 feet; thence South 380 feet; thence West 400 feet; thence approximately S 22 deg. E 1310 feet more of less; thence East 1240 feet; thence approximately S 45 deg. E 660 feet more or less; thence South 1000 feet; thence West 2650 feet; thence approximately S 22 deg. E 2140 feet more or less; thence approximately N 68 deg. E 1010 feet more or less; thence approximately N 22 deg. W 700 feet, more or less; thence approximately N 68 deg. E 540 feet, more or less; thence approximately S 22 deg. E 500 feet, more or less; thence approximately S 63 deg. W 300 feet, more or less; thence approximately S 22 deg. E 600 feet, more or less; thence approximately S 68 deg. W 400 feet, more or less; thence approximately N 22 deg. W 110 feet, more or less; thence approximately S 68 deg. W 850 feet, more or less; thence approximately S 22 deg. E 1150 feet, more or less; thence approximately S 89 deg. E 350 feet, more or less; thence South 100 feet; thence East 450 feet; thence South 2600 feet; thence approximately S 77 deg. W 300 feet, more or less; thence approximately N 2 deg. W 1270 feet; more or less; thence approximately N 22 deg. W 1120 feet more or less; thence approximately S 68 deg. W 2150 feet; more or less; thence approximately N 22 deg. W 200 feet, more or less; approximately S 68 deg. W 1950 feet more or less; thence approximately S 22 deg. E 650 feet, more or less, thence approximately S 8 deg. W 560 feet more or less; thence approximately S 68 deg. W 50 feet, more or less; thence approximately N 22 deg. W 1480 feet, more or less thence approximately N 68 deg. E 2250 feet more or less; thence approximately N 22 deg. W 5410 feet more or less; thence West 2000 feet; thence South 520 feet; thence West 1350 feet; thence South 1320 feet; thence West 660 feet to the NW corner of the NE 1/4 NE

1/4 of Section 9, T16S, R14E, SLBM; thence South 1320 feet; West 5280 feet; North 1320 feet to the point of beginning.

LESS the following portions thereof:

(a) Beginning approximately 700 feet South from the NW corner of Lot 11, Section 3, T16S, R14E, SLBM; thence East 700 feet; thence North 800 feet; thence approximately S 22 deg. E 1600 feet more or less; thence approximately S 48 deg. W 300 feet, more or less; thence West 870 feet; thence approximately N 22 deg. W 300 feet, more or less; thence North 650 feet more or less to the point of beginning.

(b) Beginning 590 feet North of the center of Section 3, T16S, R14E, SLBM; thence North 1120 feet, more or less; thence W 750 feet; thence approximately N 22 deg. W 660 feet, more or less; thence approximately N 75 deg. E 1460 feet more or less; thence approximately S 22 deg. E 2080 feet more or less; thence approximately S 75 deg. E 100 feet more or less; thence approximately S 22 deg. E 2500 feet more or less; thence West 1730 feet; thence approximately N 22 deg. W 2320 feet, more or less; thence East 300 feet more or less to the point of beginning.

(c) Beginning 350 feet East of the NW corner of Section 11, T16S, R14E, SLBM; thence S 22 deg. E 2720 feet more or less; thence approximately S 68 deg. W 1650 feet more or less; thence approximately N 22 deg. W 4800 feet more or less; thence approximately N 10 deg. E 500 feet, more or less; thence East 1400 feet, more or less thence approximately S 22 deg. E 2020 feet more or less to the point of beginning.

\* \* \*

### 1.2.3 Compliance Information

Neither Kaiser or any subsidiary, affiliate, or persons controlled by or under common control with Kaiser has had a federal or state mining permit suspended or revoked in the five (5) years previous to the date of this application. Furthermore, neither Kaiser or any subsidiary, affiliate, or persons controlled by or under common control with Kaiser has forfeited any mining bond or similar security deposited in lieu of bond.

A listing of the violation notices received by the applicant in connection with underground and surface coal mining activities during the three (3) year period prior to the date of this application for violations of any law, rule, or regulation pertaining to air or water environmental protection appears in Appendix I-2, Compliance Information.

#### **1.2.4 Relationship to Areas Designated Unsuitable for Mining**

The Horse Canyon Mine permit area is not within an area designated unsuitable for the surface effects of underground mining nor is it within an area under study for designation in an administrative proceedings initiated under UMC 764. Since the Horse Canyon Mine permit area is not within an area currently designated as unsuitable or under study for designation as unsuitable for the surface effects of underground coal mining, UMC 782.16(b) does not apply.

There are public roads within 100 feet of the permit area which also provide access to the mine. There are no occupied dwellings within 300 feet of the permit area. There are no public buildings, schools, churches, community or institutional buildings or public parks within 300 feet of the permit area and there are no known cemeteries within 100 feet of the permit area. Coal mining within the permit area will not adversely affect any publicly owned parks or any structure or place included on the

National Register of Historic Places.

### **1.2.5 Other Licenses and Permits**

Kaiser has received various permits for the Horse Canyon Mine. The permits and the identification of the issuing agencies are listed below:

Permit to Operate a Sanitary Landfill  
Utah Bureau of Solid and Hazardous Waste  
P. O. Box 16690  
Salt Lake City, UT 84116  
Issue Date: August 14, 1979

MSHA ID Number:42-00100  
United States Department of Labor  
Mine, Safety and Health Administration  
P.O. Box 25367  
Denver, Colorado 80225

NPDES Discharge Permit:UT-0022926  
Enforcement Division  
United States Environmental Protection Agency  
Region VIII  
1860 Lincoln Street  
Denver, Colorado 80203  
Issue Date: December 29, 1981 (Renewal)

### **1.2.6 Personal Injury and Property Damage Insurance**

A certificate stating that Kaiser has a public liability insurance policy in force for the Horse Canyon Mine area is set forth in Appendix I-3, Certificate of Insurance.

### **1.2.7 Location of Office of Filing Application**

As soon as DOGM deems this application to be complete, Kaiser will file a copy of the application for public inspection with:

Recorder  
Emery County Court House  
Castle Dale, Utah 84513

### **1.2.8 Permit Term**

This application is for the indeterminate/maintenance period of the Horse Canyon Mine surface facilities. During this time the present disturbed acreage of approximately 63.6 acres will not increase and there will be no underground coal mining activities. At the end of the maintenance period the mine will either be placed into operational status with renewed coal mining operations or it will be permanently closed and reclaimed.

The duration of the maintenance period is unknown but Kaiser is requesting a 5 year permit term to allow it to conduct the necessary negotiations for the sale of the property and then for the subsequent owner, if any, to complete his evaluation and planning efforts. There is a substantial value related to the present property facilities and improvements which will need to be preserved during the maintenance period.

STATE OF Colorado )  
 ) ss.  
COUNTY OF El Paso )

Claude A. Bradford, being first duly sworn, deposes and says:

1. That he is Vice President of Kaiser Coal Corporation;
2. That on behalf of said Corporation, he submitted to the State of Utah, Board and Division of Oil, Gas and Mining a Permit Application for Underground Mining Activities for the Horse Canyon Mine, Carbon County, Utah; and
3. That the information contained in said Application is true and correct to the best of his information and belief.

Claude Bradford

STATE OF Colorado )  
 ) ss.  
COUNTY OF El Paso )

On this 27th day of May, 1987, before me, the undersigned, a Notary Public in and for the State of Colorado, personally appeared Claude A. Bradford personally known to me (or proved to me on the basis of satisfactory evidence) to be the Vice President of KAISER COAL CORPORATION, the corporation that executed the instrument and the officer who executed the within instrument on behalf of the Corporation there in named and acknowledged to me that such Corporation executed the within instrument pursuant to its bylaws or a resolution of its Board of Directors.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Pamela K. Simpson

Notary Public, State of Colorado

My commission expires 12/17/89

P.O. Box 2679

Colorado Springs, CO  
80907

**1.3: Newspaper Advertisement and Proof of Publication:**

Upon the Division's determination that this application is complete, the applicant will place the following advertisement in The Sun Advocate, Price, Utah, at least once a week for four consecutive weeks:

In accordance with the terms and conditions of Utah Administrative Code Rule 632-20-UMC 786.11, notice is hereby given that Kaiser Coal Corporation, P.O. Box 1107, Raton, New Mexico 87740, (505) 445-2395, has submitted an application to to the Utah Division of Oil, Gas & Mining for a maintenance and reclamation permit at the Geneva/Horse Canyon Mine, Permit No. INA/007/013.

The maintenance and reclamation area is situated in Emery County and Carbon County, Utah as follows:

Beginning at the SW corner of the SE 1/4 SE 1/4 of Section 5, T16S, R14E, SLBM; and running thence North 660 feet; thence East 2640 feet; thence North 660 feet; thence East 1980 feet; thence North 660 feet; thence approximately N 45 deg. East 4800 feet, more or less; thence approximately N. 70 deg. W. 1250 feet, more or less; thence West 250 feet; thence approximately N 28 deg. W 1320 feet, more or less; thence approximately N 65 deg. E 580 feet more or less; thence approximately N 13 deg. E 600 feet more or less; thence approximately N 82 deg. W 100 feet, more or less; thence approximately N 10 deg. E 1650 feet more or less; thence approximately S 88 deg. E 1030 feet more or less; thence South 260 feet; thence approximately S 88 deg E 550 feet more or less; thence approximately S 02 deg. W 1940 feet, more or less; thence East 300 feet; thence approximately S 20 deg. E 1550 feet, more or less; thence approximately N 68 deg. E 100 feet more or less; thence approximately S 20 deg. E 250 feet, more or less; thence approximately N 20 deg. W 1120 feet more or less; N 68 deg. E 2170 feet more or less; thence approximately N 20 deg. W 1120 feet more or less, thence approxiately N 68 deg. E 600 feet more or less; thence East 200 feet; thence approximately S 20 deg. E 2800 feet more or less; thence approximately S 68 deg. W 300 feet more or less; thence South 500 feet; thence West 1200 feet; thence South 300 feet ; thence East 450 feet; thence South 380 feet; thence West 400 feet; thence approximately S 22 deg. E 1310 feet more of less; thence East 1240 feet; thence approximately S 45 deg. E 660 feet more or less; thence South 1000 feet; thence West 2650 feet; thence approximately S 22 deg. E 2140 feet more or less; thence approximately N 68 deg. E 1010 feet more or less; thence

approximately N 22 deg. W 700 feet, more or less; thence  
approximately N 68 deg. E 540 feet, more or less; thence  
approximately S 22 deg. E 500 feet, more or less; thence  
approximately S 63 deg. W 300 feet, more or less; thence  
approximately S 22 deg. E 600 feet, more or less; thence  
approximately S 68 deg. W 400 feet, more or less; thence  
approximately N 22 deg. W 110 feet, more or less; thence  
approximately S 68 deg. W 850 feet, more or less; thence  
approximately S 22 deg. E 1150 feet, more or less; thence  
approximately S 89 deg. E 350 feet, more or less; thence South 100  
feet; thence East 450 feet; thence South 2600 feet; thence  
approximately S 77 deg. W 300 feet, more or less; thence  
approximately N 2 deg. W 1270 feet; more or less; thence  
approximately N 22 deg. W 1120 feet more or less; thence  
approximately S 68 deg. W 2150 feet; more or less; thence  
approximately N 22 deg. W 200 feet, more or less; approximately S  
68 deg. W 1950 feet more or less; thence approximately S 22 deg.  
E 650 feet, more or less, thence approximately S 8 deg. W 560 feet  
more or less; thence approximately S 68 deg. W 50 feet, more or  
less; thence approximately N 22 deg. W 1480 feet, more or less  
thence approximately N 68 deg. E 2250 feet more or less; thence  
approximately N 22 deg. W 5410 feet more or less; thence West 2000  
feet; thence South 520 feet; thence West 1350 feet; thence South  
1320 feet; thence West 660 feet to the NW corner of the NE 1/4 NE  
1/4 of Section 9, T16S, R14E, SLBM; thence South 1320 feet; West  
5280 feet; North 1320 feet to the point of beginning.

LESS the following portions thereof:

(a) Beginning approximately 700 feet South from the NW corner of  
Lot 11, Section 3, T16S, R14E, SLBM; thence East 700 feet; thence  
North 800 feet; thence approximately S 22 deg. E 1600 feet more or  
less; thence approximately S 48 deg. W 300 feet, more or less;  
thence West 870 feet; thence approximately N 22 deg. W 300 feet,  
more or less; thence North 650 feet more or less to the point of  
beginning.

(b) Beginning 590 feet North of the center of Section 3, T16S,  
R14E, SLBM; thence North 1120 feet, more or less; thence W 750  
feet; thence approximately N 22 deg. W 660 feet, more or less;  
thence approximately N 75 deg. E 1460 feet more or less; thence  
approximately S 22 deg. E 2080 feet more or less; thence  
approximately S 75 deg. E 100 feet more or less; thence  
approximately S 22 deg. E 2500 feet more or less; thence West 1730  
feet; thence approximately N 22 deg. W 2320 feet, more or less;  
thence East 300 feet more or less to the point of beginning.

(c) Beginning 350 feet East of the NW corner of Section 11, T16S,  
R14E, SLBM; thence S 22 deg. E 2720 feet more or less; thence  
approximately S 68 deg. W 1650 feet more or less; thence  
approximately N 22 deg. W 4800 feet more or less; thence  
approximately N 10 deg. E 500 feet, more or less; thence East 1400

feet, more or less thence approximately S 22 deg. E 2020 feet more or less to the point of beginning.

\* \* \*

The described areas are contained on the following U.S. Geological Survey 7.5 minute quadrangle maps:

Cedar  
Lila Point

A copy of the application is available for public inspection at the following address:

Recorder's Office  
Emery County Courthouse  
Castle Dale, Utah 84513

Pertinent comments are solicited by anyone affected by this proposal. Such comments should be filed within the next thirty (30) days with Dr. Dianne R. Nielson, Director, Utah Division of Oil, Gas & Mining at:

State of Utah  
Department of Natural Resources  
III Triad, Suite 350  
355 West North Temple  
Salt Lake City, Utah 84180-1203

Submitted by John M. Palfy, Agent, Kaiser Coal Corporation

Proof of publication will be submitted to the Division following publication.

## 1.4 Criteria for Permit Approval or Denial

In accordance with UMC 786.19 this section indicates that the application complies with the GENERAL GUIDELINE FOR ORGANIZATIONAL FORMAT AND CONTENT issued by the Division of Oil, Gas and Mining in February 1986 and that the DOGM and OSM regulatory program has been complied with.

### 1.4.1 Cross Reference Index of Application with the Rules

This index is presented to cross reference the requirements of the Utah Division of Oil, Gas and Mining (DOGM) with the sections of the application. It is provided to assist the review of the application.

<u>TOPIC</u>	<u>UMC</u>	<u>RESPONSE IN APPLICATION</u>
Permit Applications	771.23(a)	Advisory
Available Technical Data	771.23(b)	In Each Chapter
Preparers	771.23(c)(1)	Cover Sheet
Dates of Data Collection	771.23(c)(2)	In Each Chapter
Methodologies	771.23(c)(3)	In Each Chapter
Agencies Contacted	771.23(d)	Various Appendices
Maps-Scale	771.23(e)(1)	Various Maps
Pre-Law Mining	771.23(e)(2)	Sect. 2.1, Plate II-1
Permit Fees	771.25	Advisory
Verification of Permit	771.27	Sect. 1.2.1
Applicant Address	782.13(a)(1)	Sect. 1.2.1

Ownership Map	782.13(a)(2)	Plate I-1
Leasehold Holders	782.13(a)(3)	Sect. 1.2.1, Plate I-2
Purchaser of Record	782.13(a)(4)	Sect. 1.2.1
Operator Address	782.13(a)(5)	Sect. 1.2.1
Address of Agent	782.13(a)(6)	Sect. 1.2.1
Statement of Ownership	782.13(b)	Sect. 1.2.1
Names of Officers	782.13(b)(1)	Sect. 1.2.1
Names of Shareholders	782.13(b)(2)	Sect. 1.2.1
Other Mines Operated	782.13(b)(3)	Sect. 1.2.1
Non-proprietor Names	782.13(c)	Sect. 1.2.1
Mining Permits	782.13(d)	Sect. 1.2.1
Owners of Adjacent Prop.	782.13(e)	Sect. 1.2.1
Mine/MSHA Number	782.13(f)	Sect. 1.2.5
Lands Contiguous	782.13(g)	Sect. 1.2.1
Suspended/Revoked Permit	782.14(a)(1)	Sect. 1.2.3
Forfeited Bonds	782.14(a)(2)	Sect. 1.2.3
Suspension	782.14(b)	Sect. 1.2.3
Violations List	782.14(c)	Appendix I-1
Right of Entry	782.15(a)	Sect. 1.2.2
Right to Extract Coal	782.15(b)	Not Applicable
Areas Unsuitable	782.16(a)-(c)	Sect. 1.2.4
Permit Term	782.17	Sect. 1.2.8
Insurance	782.18	Sect. 1.2.6
Other Licenses/Permits	782.19	Sect. 1.2.5
Public Office for Filing	782.20	Sect. 1.2.7
Newspaper Advertisement	782.21	Sect. 1.3

Size, Sequence of Mining	783.12(a)	Not Applicable
Cultural & Historic Res.	783.12(b)	Sect. 10.1
Hydrology and Geology	783.13 all	Chap.V, Chap.VI
Geology (general)	783.14(a)	Chap.V
Stratum Description	783.14(a)(1)	Sect. 5.2
Subsurface Water	783.14(a)(1)	Sect. 5.2, Sect. 6.2
Lithology of Strata	783.14(a)(1)	Sect. 5.2
Overburden Stratum	783.14(a)(1)	Sect. 5.2
Stratum Chemistry	783.14(a)(1)	Not Applicable
Subsurface Water	783.14(a)(2)	Sect. 5.2, Sect. 6.2
Overburden Description	783.14(a)(2)	Sect. 5.2, Sect. 5.3
Pyrite, Clay Content	783.14(a)(2)	Not Applicable
Marcasite, Pyrite etc.	783.14(a)(2)	Not Applicable
Groundwater Hydrology	783.15(a)(1)	Sect. 6.2
Well Location Map		Plate VI-1
Lithology/Thickness	783.15(a)(2)	Sect. 5.2, Sect. 6.2
Groundwater Uses	783.15(a)(3)	Sect. 6.4
Groundwater Quality	783.15(a)(4)	Appendix VI-1
Observation Wells		Not Applicable
Aquifer Characteristics	783.15(b)	Sect. 6.2
Surface Water (general)	783.16(a)	Sect. 6.3
Max/Min Discharge	783.16(b)(1)	Sect. 6.2.2
Water Quality	783.16(b)(2)	Sect. 6.2.2, App.VI-1
Alternate Water Supply	783.17	Sect. 6.4
Ave. Seasonal Precip.	783.18	Sect. 10.2
Wind Direction	783.18(a)(2)	Sect. 10.2

Temperature Range	783.18(b)	Sect. 10.2
Climatology	783.18(b)	Sect. 10.2
Veg. Types/Species ✓	783.19(a)	Sect. 8.2
Veg. Map ✓	783.19(b)	Plate VIII-1
Fish and Wildlife Info.	783.20 all	Sect. 9.2
Soil Resources ✓	783.21(a)all	Sect. 7.2
Soil Map ✓		Plate VII-1
Overburden Soil Subst.	783.21(b)	Sect. 7.4
Permit Area Land Use ✓	783.22(a)	Sect. 2.1, Sect.10.3.1
Land Use Map ✓	783.22(a)(1)	Plate II-1 A,B
Pre-Mining Land Potential	783.22(a)(2)	Sect. 10.3, Sect.7.2.3.4
Pre-Mining Productivity	783.22(a)(2)	Sect. 10.3, Sect.7.2.3.4
Previous Mining	783.22(b)all	Sect. 9.2 Sect. 2.1.2, Sect. 5.2, Sect. 10.3.1
Map-Boundaries, Owners	783.24(a)	Plates I-1, Plate I-2
Boundaries, Permit Area	783.24(b)	Plate I-1
Sequence Map	783.24(c)	Plate II-2
Map-Buildings	783.24(d)	Plate II-1
Map-Man Made, Elect. Pipe	783.24(e)	Plate II-2
Map-Reference Areas	783.24(f)	Plate VIII-1
Map-Hydrologic Area	783.24(g)	Plate VI-1
Map-Public Roads	783.24(h)	Plate II-1
Map-Archeological Sites	783.24(i)	App.X-1, App.X-2
Map-Cemeteries	783.24(j)	Not Applicable
Map-Proximity to NPS	783.24(k)	Not Applicable
Map-Test Borings	783.25(a)	Not Applicable
Map-Monitoring Stations	783.25(b)	Plates VI-1, VII-1, VIII-1

Seam Information	783.25(c)	Sect. 5.2
Crop Lines	783.25(d)	Plate II-2
Known Workings	783.25(e)	Plate II-2
Location of U.G. Water	783.25(f)	Plate II-2
Map-Surface Water	783.25(g)	Plate VI-1
Map-Surface Mined Areas	783.25(h)	Not Applicable
Map-Spoil, Ponds	783.25(i)	Plate II-1
Wells	783.25(j)	Sect. 6.4, Plate VI-1
Slope Measurements	783.25(k)	Plate II-1, Plate IV-2
Maps Certification	783.25(l)	All Applicable Plates
Prime Farmlands	783.27(a)&(b)	Sect. 7.3
Prime Farmlands	783.27(c)&(d)	Not Applicable
Mining Method	784.11(a)	Not Applicable
Dams, Embankments, Ponds	784.11(b)(1)	Sect. 6.6
Topsoil Handling	784.11(b)(2)	Sect. 7.4, Sect. 7.5
Coal Transportation	784.11(b)(3)	Sect. 2.1, Sect. 2.7 Sect. 3.6, Sect. 4.4
Mine Dev. Waste	784.11(b)(4)	Sect. 2.1, Sect. 4.2
Mine Facilities	784.11(b)(5)	Sect. 2.1, Sect. 2.7
Water Poll. Facilities	784.11(b)(6)	Sect. 2.1, Sect. 6.5 Sect. 6.6
Existing Structures	784.12(a)&(b)	Not Applicable
Reclamation Plan	784.13	Chapter III
Reclamation Timetable	784.13(b)(1)	Sect. 3.5
Reclamation Cost Est.	784.13(b)(2)	Sect. 4.7
Backfilling & Grading	784.13(b)(3)	Sect. 4.3.2, Plate IV-1
Topsoil Handling	784.13(b)(4)	Sect. 3.9
Revegetation Plan	784.13(b)(5)	Sect. 3.10

Conservation of Coal	784.13(b)(6)	Not Applicable
Hazardous Waste	784.13(b)(7)	Not Applicable
Seal Openings	784.13(b)(8)	Sect. 3.7.1
Air & Water Qual. Prot.	784.13(b)(9)	Sect. 6.6, Sect. 10.4
Prot. of Hydrologic Bal.	784.14(a)	Sect. 6.5, Sect. 6.6
Water Quality Prot.	784.14(a)(1)	Sect. 6.5, Sect.6.6
Water Rights Prot.	784.14(a)(2)	Sect. 6.4
Water Quantity Prot.	784.14(a)(3)	Sect. 6.4, Sect. 6.2 Sect. 5.4
Water Quality-Mine Ops.	784.14(a)(4)	Sect. 2.3, Sect. 5.2 Sect. 6.7
Water Control Plan	784.14(b)(1)	Sect. 6.5
Water Treatment plan	784.14(b)(2)	Sect. 6.6
Hydrologic Tests	784.14(b)(3)	Sect. 2.7.1, Sect. 3.11.1
Prob. Hydrologic Conseq.	784.14(c)	Sect. 6.7
Portal Seal Designs	784.14(d)	Sect. 4.6, Fig. 4.6.2-1
Postmining Land Use	784.15(a)all	Sect. 10.3.2
Owner's Comments	784.15(b)	Not Applicable
Sediment Pond Plans	784.16(a)(1)	Sect. 6.6
Sediment Pond Plans	784.16(a)(2)	Not Applicable
Structure Designs	784.16(a)(3)	Sect. 6.6, Sect. 2.7.2
Sediment Pond Designs	784.16(b)	Sect. 6.6
Impoundments	784.16(c)	Sect. 6.6
Coal Processing Waste	784.16(d)	Not Applicable
Coal Processing Dams	784.16(e)	Not Applicable
Stability Analyses	784.16(f)	Not Applicable
Protection of Parks and Historic Places	784.17	Section 10.1
Relocation/Use of Roads	784.18(a)	Not Applicable

Relocation of Roads	784.18(b)	Sect. 4.3, Sect. 4.4
Underground Dev. Waste	784.19(a)	Sect. 4.2
Geotechnical Inv.	784.19(b)	App. IV-1
Buttresses or Key-ways	784.19(c)	Not Applicable
Subsidence Control Plan	784.20(a)	Not Applicable
Subsidence Prevention	784.20(b)	Not Applicable
Subsidence Effects Mit.	784.20(c)	Not Applicable
Subsidence Monitoring	784.20(d)	Sect. 5.5, Sect. 3.11.3
Fish and Wildlife Plan	784.21(a)	Sect. 9.3
Wildlife Impact Mit.	784.21(b)	Sect. 9.3
Stream Diversions	784.22	Sect. 6.5
Permit Area Maps	784.23(a)	Plates II-1, II-2
Map-Facilities	784.23(b)(1)	Plate II-1
Map-Land Affected	784.23(b)(2)	Plates II-1, II-2
Map-Bond Area	784.23(b)(3)	Plate II-1
Map-Coal Handling	784.23(b)(4)	Plate II-1
Map-Topsoil and Waste	784.23(b)(5)	Plate II-1
Map-Hydrology Works	784.23(b)(6)	Plates VI-2, VI-3, VI-4
Map-Coal Processing	784.23(b)(7)	Not Applicable
Map-F&W Enhancement	784.23(b)(8)	Plate II-1
Map-Explosives	784.23(b)(9)	Plate II-1
Map-Ponds and Spoil	784.23(b)(10)	Plates II-1, VI-2, VI-3
Sections-Final Grade	784.23(b)(11)	Plates IV-1, IV-2
Monitoring Locations	784.23(b)(12)	Plate VI-1
Permanent Features	784.23(b)(13)	Plate IV-1
Road Specifications	784.24(a)	Sect. 4.4, App. IV-3

Geotechnical Analyses	784.24(b)	Not Applicable
Road Drainage	784.24(c)	Not Applicable
Culvert Designs	784.24(d)	Sect. 6.5
Transportation Descr.	784.24(e)	Sect. 2.1, Sect. 4.4
U.G. Disposal of Waste	784.25 all	Not Applicable
Air Pollution Controls	784.26	Sect. 10.4
Experimental Practices	785.13 all	Not Applicable
Prime Farmlands	785.17 all	Not Applicable
Alluvial Valley Floors	785.19 all	Chapter XI
Coal Processing Plants	785.21 all	Not Applicable
In Situ Processing	785.22 all	Not Applicable
Public Notices	786.11 all	Sect. 1.3
Permitting Criteria	786.19 all	Sect. 1.4.2
Permitting Criteria	786.21 all	Not Applicable

#### **1.4.2 Cross Reference Index of Application with UMC 786.19**

This section provides the cross references of the application with UMC 786.19. Each item in UMC 786.19 is listed along with the response or location within this application where the item is addressed.

UMC 786.19(a) Accuracy and completeness  
Advisory

UMC 786.19(b) Feasibility of accomplishing maintenance and reclamation.

The feasibility of Kaiser to accomplish the stated maintenance and reclamation is addressed in Sections 2.8 and 3.5.

UMC 786.19(c) Probable hydrologic consequences

The probable hydrologic consequences are addressed in Section 6.7.

UMC 789.19(d) Suitability for underground coal mining activities.

The suitability for underground coal mining activities is addressed in Section 1.2.4.

UMC 786.19(e) Adverse effects of any publicly-owned parks or places included in the National Register of Historic Places.

This is addressed in Sections 1.2.4 and 10.1.

UMC 786.19(f) Documentation that the private mineral estate has been severed from the private surface estate.

Does not apply

UMC 786.19(g) Submission of proof required by Section UMC 786.17 (c)(1) or (c)(2).

Kaiser will provide the documentation required by Section UMC 786.17 (c)(1) or (c)(2) as applicable.

UMC 786.19(h) Proof that all reclamation fees required under Subchapter R of 30 CFR have been paid.

Kaiser has paid all fees required under Subchapter R with the exception of the second, third, and fourth quarters of 1986, and a portion of the first quarter of 1987. These fees are currently stayed.

UMC 786.19(i) Mining operations demonstrating violations of the Act.

Kaiser does not control mining operations with a demonstrated pattern of willful violations of the Act.

UMC 786.19(j) Consistency of underground coal mining activities with activities performed in adjacent areas.

Does not apply.

UMC 786.19(k) Submitting a performance bond by applicant.

Kaiser will submit a performance bond required under Subchapter J and the regulatory program. A cost estimate for this bond is found in Section 4.7.

UMC 786.19(1) Prime farmland and alluvial valley floors.

Prime farmland is addressed in Section 7.3 and Alluvial valley floors are addressed in Chapter 11.

UMC 786.19(m) Post mining land use.

The intended post mining land use for this site is discussed in Sections 3.2 and 10.3.2.

UMC 786.19(n) Approvals under Subchapter K  
Advisory

UMC 786.19(o) Threatened or endangered species.

Sections 8.2.2.8 and 8.2.3.3 discuss threatened, endangered and sensitive species.

## **List of Appendices**

- I-1        Surface and Coal Ownership Breakdown
- I-2        Compliance Information
- I-3        Insurance Information
- I-4        Newspaper Advertisement

**Appendix I-1**

**Surface and Coal Ownership Breakdown**

PERMITTED AREA

SURFACE AND COAL OWNERSHIP

Township 16 South, Range 14 East, S.L.M.:

<u>Legal Description</u>	<u>Surface</u>	<u>Coal</u>
<u>Section 3</u>		
S1/2 Lot 3	Kaiser Coal Corporation	Federal Lease SL066145
SE1/4 Lot 5	Kaiser Coal Corporation	Kaiser Coal Corporation
W1/2 Lot 6	Kaiser Coal Corporation	Kaiser Coal Corporation
NE1/4 Lot 6	Kaiser Coal Corporation	Kaiser Coal Corporation
NW1/4 Lot 11	Kaiser Coal Corporation	Federal Lease SL066145
Lot 12	Kaiser Coal Corporation	Kaiser Coal Corporation
W1/2 NW1/4 SW1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
<u>Section 4</u>		
E1/2 Lot 9	Kaiser Coal Corporation	Kaiser Coal Corporation
SW1/4 Lot 9	Kaiser Coal Corporation	Kaiser Coal Corporation
NE1/4 SE1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
S1/2 NW1/4 SE1/4	Kaiser Coal Corporation	Bureau of Land Management
NE1/4 NW1/4 SE1/4	Kaiser Coal Corporation	Bureau of Land Management
SE1/4 SE1/4	Kaiser Coal Corporation	Bureau of Land Management
SW1/4 SE1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
SE1/4 SW1/4	Kaiser Coal Corporation	State of Utah (unconfirmed)
S1/2 SW1/4 SW1/4	Kaiser Coal Corporation	State of Utah (unconfirmed)
<u>Section 5</u>		
S1/2 SE1/4 SE1/4	Kaiser Coal Corporation	State of Utah (unconfirmed)
<u>Section 8</u>		
NE1/4 NE1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
<u>Section 9</u>		
NW1/4 NW1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
NE1/4 NW1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
NW1/4 NE1/4	Kaiser Coal Corporation	State of Utah (unconfirmed)

PERMITTED AREA

CONTIGUOUS OWNERSHIP

Township 16 South, Range 14 East, S.L.M.:

<u>Legal Description</u>	<u>Surface</u>	<u>Coal</u>
<u>Section 3</u>		
Lot 2	Bureau of Land Management	Federal Lease SL066145
N1/2 Lot 3	Kaiser Coal Corporation	Federal Lease SL066145
Lot 4	Bureau of Land Management	Bureau of Land Management
N1/2 Lot 5	Kaiser Coal Corporation	Kaiser Coal Corporation
SW1/4 Lot 5	Kaiser Coal Corporation	Kaiser Coal Corporation
SE1/4 Lot 6	Kaiser Coal Corporation	Kaiser Coal Corporation
Lot 7	Kaiser Coal Corporation	Federal Lease SL066145
S1/2 Lot 11	Kaiser Coal Corporation	Federal Lease SL066145
NE1/4 Lot 11	Kaiser Coal Corporation	Federal Lease SL066145
E1/2 NW1/4 SW1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
NE1/4 SW1/4	Bureau of Land Management	Federal Lease SL066145
SW1/4 SW1/4	Kaiser Coal Corporation	Kaiser Coal Corporation
<u>Section 4</u>		
Lot 8	Kaiser Coal Corporation	Kaiser Coal Corporation
NW1/4 Lot 9	Kaiser Coal Corporation	Kaiser Coal Corporation
Lot 10	Bureau of Land Management	Bureau of Land Management
NW1/4 NW1/4 SE1/4	Kaiser Coal Corporation	Bureau of Land Management
NE1/4 SW1/4	Bureau of Land Management	Bureau of Land Management
NW1/4 SW1/4	Bureau of Land Management	Bureau of Land Management
N1/2 SW1/4 SW1/4	Kaiser Coal Corporation	State of Utah (unconfirmed)
<u>Section 5</u>		
N1/2 SE1/4 SE1/4	Kaiser Coal Corporation	State of Utah (unconfirmed)
SW1/4 SE1/4	Bureau of Land Management	Bureau of Land Management
<u>Section 8</u>		
NW1/4 NE1/4	Bureau of Land Management	Bureau of Land Management
S1/2 NE1/4	Bureau of Land Management	Bureau of Land Management
<u>Section 9</u>		
S1/2 NW1/4	Kaiser Coal Corporation	State of Utah (unconfirmed)
SW1/4 NE1/4	Bureau of Land Management	Bureau of Land Management
SE1/4 NE1/4	Kaiser Coal Corporation	Bureau of Land Management
NE1/4 NE1/4	Bureau of Land Management	Bureau of Land Management
<u>Section 10</u>		
NW1/4 NW1/4	Bureau of Land Management	Bureau of Land Management

PERMITTED AREA

CONTIGUOUS OWNERSHIP (continued)

Grazing Lease  
Icelander Allotment

Permitee: Jerry, James and Dix Jensen  
190 North Carbon Avenue  
Price, Utah 84501

Lands Covered: Township 16 South, Range 14 East, S.L.M.

Section 4: Lot 10, NE1/4 SW1/4,  
NW1/4 SW1/4

Section 5: SW1/4 SE1/4

Section 8: NW1/4 NE1/4,  
S1/2 NE1/4

**Appendix I-2**  
**Compliance Information**

COMPLIANCE INFORMATION - UTAH

*For Appendix I-2*

Kaiser Coal Corporation  
 Horse Canyon Mine  
 Permit # ACT/07/013  
 Emery County, Utah

Regula: *Horse Canyon*  
 State  
 Divisi: *Please put in*  
 Salt Lake City, Utah *PAD 110. ring*

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
NOV 87-20-1-1	Issued 6-29-87 Failed to post alternative form of bond for \$8,676,773.	This N.O.V. was not appropriate, therefore not enforced.
NOV 88-26-10-1	Issued 4-4-88 Failure of diversions to meet performance standards.	N.O.V. terminated 7/7/88.
NOV 89-26-19-1	Issued 7-27-89 Failure to provide sediment control.	N.O.V. terminated 8/8/89.
89-02-107-5	Issued 9/5/89 10 Day Notice: Failure to obtain permit after 8 months from date regulatory program is approved by secretary.	Withdrawn & replaced with 89-02-107-6 (see below).
89-02-107-6	Issued 9/5/89 10 Day Notice: 1) Failure to obtain permit  2) Failure to conduct underground activities in accordance with requirements	No action taken to date  Abatement time: 1/19/90 & 3/17/90
NOV 89-26-23-2	Issued 12-13-89 1) Failure to pass undisturbed drainage through sediment pond.  2) Failure to minimize erosion to the extent possible.	N.O.V. Terminated 1/9/90

COMPLIANCE INFORMATION - UTAH

Kaiser Coal Corporation  
 Horse Canyon Mine  
 Permit # ACT/07/013  
 Emery County, Utah

Regulatory Authority  
 State of Utah  
 Division of Oil, Gas & Mining  
 Salt Lake City, Utah

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
NOV 87-20-1-1	Issued 6-29-87 Failed to post alternative form of bond for \$8,676,773.	This N.O.V. was not appropriate, therefore not enforced.
NOV 88-26-10-1	Issued 4-4-88 Failure of diversions to meet performance standards.	N.O.V. terminated 7/7/88.
NOV 89-26-19-1	Issued 7-27-89 Failure to provide sediment control.	N.O.V. terminated 8/8/89.
89-02-107-5	Issued 9/5/89 10 Day Notice: Failure to obtain permit after 8 months from date regulatory program is approved by secretary.	Withdrawn & replaced with 89-02-107-6 (see below).
89-02-107-6	Issued 9/5/89 10 Day Notice: 1) Failure to obtain permit  2) Failure to conduct underground activities in accordance with requirements	No action taken to date  Abatement time: 1/19/90 & 3/17/90
NOV 89-26-23-2	Issued 12-13-89 1) Failure to pass undisturbed drainage through sediment pond.  2) Failure to minimize erosion to the extent possible.	N.O.V. Terminated 1/9/90

NO.

DESCRIPTION

ACTION

NOV 89-02-370-6	1) Failure to provide spillway.	Civil penalty not imposed, violations will remain on record.
	2) Failure to construct sediment pond embankments.	

karla:020890A

COMPLIANCE INFORMATION - UTAH

Kaiser Coal Corporation  
 Sunnyside Mine  
 Permit # ACT/007/007  
 Emery County, Utah

Regulatory Authority  
 State of Utah  
 Division of Oil, Gas & Mining  
 Salt Lake City, Utah

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
NOV 87-22-1-1	Issued 5-21-87 Failure to mine in accordance with approved plan. Failure to analyze water quality	Terminated 6-3-87
NOV 87-20-1-1	Issued 6-29-87 Failed to post alternative forming bond for \$8,676,773	This N.O.V. was not appropriate, therefore not enforced
NOV 88-26-9-1	Issued 3-17-88 3 plugged culverts - failure to maintain culverts.	Culvert 2 terminated 5/5/88.
NOV 88-26-11-1	Issued 4-29-88 Failure to provide for and/or maintain sediment control measures	2 items term 5-31-88 3rd item term 7-29-88
NOV 88-19-2-1	Issued 5-12-88 Failure to operate in accordance with approved subsidence monitoring plan	Begin monitoring no later than 8-12-88 c.o. #88-19-1-1 dated 8-16-88
NOV 88-19-1-1	Issued 8-16-88 Failure to operate in accordance with approved subsidence monitoring plan	N.O.V. Terminated 9-13-88
NOV 88-26-14-1	Issued 8-18-88 Failure to monitor water as specified in the mining and reclamation plan (from Jan-July 88)	Terminated 8-18-88

<u>NO.</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
NOV 88-30-2-1	Issued 10-6-88 Failure to pass disturbed area drainage through a sedimentation pond	pt. A term. 4-7-89 pt. B term. 4-21-86
NOV 89-26-1-1	Issued 3-29-89 F-10 maintain water quality in accordance with UPDES on discharge of pond 002	Term. 4-12-89
C.O.89-25-2-1	Issued 4-19-89 conducting mining activities w/o permit; failure to protect fish, wildlife and environmental matters, failure to pass sediment water through a sed. control structure	vacated 2-6-90
NOV 89-26-24-1	Issued 12-20-89 Failure to maintain support facilities required. Support facility is the oil emulsion pipeline underground	
C.O. 89-25-1-1	Issued 4-19-89 Failure to protect fish, wildlife and environmental values. Failure to cease deposition of oil and/or flocculated oil into grass creek.	vacated 2/6/90
NOV 89-30-11-1	Issued 11-8-89 Failure to notify appropriate agencies of NPDES permit noncompliance, within 5 days of receiving analysis results	Terminated 11-8-89

KHS:020890A

KAISER COAL  
Chimney Rock Mine  
#C81-23

Department of Natural Resources  
State of Colorado

<u>N.O.V. #</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
C-87-24	Issued 6/30/87. Failure to follow approved mine and reclamation plan. Approved backfilling and grading did not occur. The east pit has been overfilled.	Penalty of \$2050 paid. Terminated 12/10/88.
C-87-25	Issued 6/30/87. Failure to maintain sufficient reclamation bond.	Penalty of \$2550 paid. Terminated 2/10/88.
C-87-35	Issued 8/13/87. Failure to properly manage cattle grazing to promote the positioning land use.	Penalty of \$750.00 paid. Terminated 10/14/87.
C-87-36	Issued 8/13/87. Failure to manage rills and gullies.	Penalty of \$750.00 paid. Terminated 6/3/88.
C-87-45	Issued 11/10/87. Failure to construct ponds as designed.	Penalty of \$500.00 paid. Terminated 12/23/87.
C-88-8	Issued 1/28/88. Failure to construct road in compliance with permit and regulations.	Penalty of \$1,000.00 paid. Terminated 7/28/88.
C-88-15	Issued 3/31/88. Failure to monitor for subsidence.	Penalty of \$400.00. Terminated 4/21/88.
C-88-26	Issued 5/10/88. Failure to abate N.O.V. C-88-0088.	Penalty of \$4,500.00 paid. Board hearing set for 11/15/88. Terminated 5/16/88.
C-88-45	Issued 10/26/88. Failure to stabilize rills and gullies.	Penalty of \$1,400.00 paid. Terminated 11/23/88.
C-89-29	Issued 10/26/89. Failure to stabilize rills and gullies.	Vacated 11/21/89.

N.O.V. 2

DESCRIPTION

ACTION

C-89-30

Issued 10/30/89. Failure  
to maintain diversion  
ditches.

Penalty of \$300.00  
paid. Terminated  
11/27/89.

KAISER COAL  
Colorado Coal Mine #1  
#C-81-024

Department of Natural Resources  
State of Colorado

<u>N.O.V. #</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
C-87-33	Issued 8/14/87. Failure to stabilize erosion on ponds.	Terminated 1/22/88.
C-87-34	Issued 8/14/87. Failure to stabilize topsoil stockpile.	Penalty of \$500.00 paid. Terminated 2/5/88.
C-90-6	Issued 1/18/90. Failure to protect side slopes from erosion.	Abatement period ends 4/15/90.

karla:030990A

KAISER COAL  
York Canyon Mine

Department of Natural Resources  
State of New Mexico

<u>N.O.V. #</u>	<u>DESCRIPTION</u>	<u>ACTION</u>
291	Issued 7/21/87. Failure to construct sediment control prior to disturbance.	Assessed \$1,300.00 fine. Terminated 9/1/87.
C.O. #C-89-01- 87	Issued 8/26/87. Failure to abate N.O.V. 291	Assessed \$4,500.00 fine. Terminated 9/1/87.
420	Issued 11/20/87. Failure to construct sediment control prior to mining.	No penalty. Terminated 12/11/87.
390	Issued 5/26/88. (1) Failure to protect topsoil stockpile from water erosion; (2) failure to control erosion on a road.	(1) No penalty. Terminated 6/16/88 (2) No penalty. Terminated 6/16/88.
391	Issued 6/6/88. Failure to protect for erosion.	No penalty. Terminated 8/31/88.
232	Issued 6/14/88. Failure to maintain the appropriate gradient for a diversion.	No penalty assessed. Terminated 9/8/88.
294	Issued 9/1/88. Failure to contain surface flows within the permit area.	No penalty assessed. Terminated 11/2/88.

karla:030990b

COMPLIANCE INFORMATION - UTAH

Kaiser Coal Corporation  
Sunnyside Mines  
Carbon County, Utah

Regulatory Authority:  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
Salt Lake City, Utah

NOTICE OF VIOLATION 84-6-9-1 (8/10/84)

Part 1 of 1                    UMC 771.19

Failure to mine in accordance with approved plan.

Cessation of mine water discharge into No. 2 Canyon.

No penalty assessed.

Terminated 8/10/84.

NOTICE OF VIOLATION 84-4-17-3 (11/19/84)

Part 1 of 3                    UMC 817.23(b)

Failure to protect stockpiled topsoil material.

Complete the ditch and berm and/or use straw bales.

\$220 penalty assessed.

Terminated 11/19/84.

Part 2 of 3                    UMC 817.42, UMC 817.43, UMC 817.45

Failure to maintain sediment control measures to ensure that disturbed area drainage passes through a sediment pond before leaving the permit area.

Maintain ditch so it is properly sized and has adequate slope to prevent ponding in the diversion.

\$240 penalty assessed.

Terminated 11/19/84.

Part 3 of 3                    UMC 817.42, UMC 817.45

Failure to maintain sediment controls to ensure all disturbed area drainage passes through a sediment pond before leaving the permit area.

Maintain the sediment controls to ensure that the drainage from the substation area goes to the sediment pond.

\$70 penalty assessed.

Terminated 11/29/84.

COMPLIANCE INFORMATION - UTAH

NOTICE OF VIOLATION 85-4-1-4 (1/7/85)

Part 1 of 4                    UMC 771.19, UCA 40-10-22(i)(c)

Failure to mine in accordance with an approved mine plan (001 mine water pond).

Submit plans to the Division for approval of the as-built mine water pond.

No penalty assessed.  
Terminated 1/24/85.

Part 2 of 4                    UMC 771.19, UMC 817.47, UCA 40-10-22(i)(c)

Failure to mine in accordance with an approved mine plan (hoist house and manshaft sediment ponds).

Submit plans to the division for approval of the as-built sediment ponds. Said plans must address all modification to the approved design including construction of adequate discharge structures.

No penalty assessed.  
Terminated 1/23/85.

Part 3 of 4                    UMC 817.46, UMC 817.49, UMC 817.93

Failure to conduct weekly sediment pond impoundment inspections.

Conduct inspections and keep records as required.

No penalty assessed.  
Terminated 1/12/85.

Part 4 of 4                    UMC 817.82

Failure to conduct inspections of coal processing waste banks.

Conduct inspections in accordance with UMC 817.82.

No penalty assessed.  
Terminated 2/12/85.

NOTICE OF VIOLATION 85-4-4-2 (2/22/85)

Part 1 of 2                    UMC 817.42, UMC 817.45

Failure to pass all surface drainage from the disturbed area (parking lot and office area) through a sediment pond or treatment facility before leaving the permit area.

Install loose straw filter dikes along the tracks to treat the runoff.

COMPLIANCE INFORMATION - UTAH

Submit drainage control plans to the Division for this area.

No penalty assessed.

Terminated 3/8/85.

CESSATION ORDER 85-4-2-1 (3/22/85)

Part 1 of 1            UCA 40-10-22(1)(c)

Failure to abate NOV 85-4-4-2 within the time set for abatement.

Comply with the remedial actions required in the violation,  
immediately.

Vacated, issued subsequent to abatement of NOV 3/22/85.

Part 2 of 2            UMC 817.42, UMC 817.45

Failure to pass all surface drainage from the disturbed area (No. 2 Canyon bridge) through a sediment pond or treatment facility before leaving the permit area.

Maintain the area so that disturbed area runoff bypasses the bridge and goes to the lower #2 Canyon sediment pond as designed.

No penalty assessed.

Terminated 3/8/85.

NOTICE OF VIOLATION 85-4-10-1 (3/22/85)

Part 1 of 1            UMC 771.19

Failure to mine in accordance with an approved interim permit.

Stop using the dirt road from the coarse refuse haul road to state highway 123. Install sediment controls to ensure that there are no additional contributions of suspended solids to Grassy Trail Creek from the newly disturbed area associated with the stream crossing southwest of the coal stockpile. Submit plans for the Class I road. Submit plans for the permitting of, or reclamation of the dirt road from the coarse refuse haul road to state highway 123 in accordance with UMC 817.150 - .156.

No penalty assessed.

Terminated 4/15/85.

NOTICE OF VIOLATION 85-4-11-1 (4/4/85)

Part 1 of 1            UMC 817.42(c)

Failure to maintain water treatment facilities as approved.

COMPLIANCE INFORMATION - UTAH

Maintain facilities in accordance with approved plan.

No penalty assessed.

Terminated 4/4/85.

NOTICE OF VIOLATION 85-4-17-3 (5/13/85)

Part 1 of 3                    UCA 40-10-22(1)(c), UMC 771.19, UMC 43(a)

Failure to construct and maintain diversion to (manshaft and No. 2 Canyon) divert runoff from a sediment pond, to ensure that they will pass safely the peak runoff from a 10 year, 24 hour precipitation event. Failure to mine in accordance with an approved interim mine plan.

Construct and maintain the diversions in accordance with the approved plan.

No penalty assessed.

Terminated 5/13/85.

Part 2 of 3                    UCA 40-10-22(1)(c), UMC 771.19, UMC 817.46(e)(1)(m)  
UMC 817.47

Failure to conduct mining activities in accordance with an approved interim permit (coarse refuse toe pond).

Failure to provide an adequate discharge structure.

Reconstruct and maintain the pond to meet approved design specifications. Submit complete and adequate plans to the Division for adequate erosion protection of the emergency spillway outlet.

No penalty assessed.

Terminated 9/3/85.

Part 3 of 3                    UMC 817.49(b), UMC 817.46(e)

Failure to construct and maintain a pond (001 mine water pond) to prevent short circuiting to the extent possible.

Cease pumping water into the pond. Submit complete and adequate plans to the Division which show how piping along the spillway will be stopped.

No penalty assessed.

Terminated 5/13/85.

COMPLIANCE INFORMATION - UTAH

CESSATION ORDER 85-4-6-1 (6/20/85)

Part 1 of 1            UCA 40-10-22(i)(c)

Failure to abate a violation within the time set for abatement.  
Water was discharged into the pond without approval.

Comply with the remedial actions required in the violation,  
immediately.

No penalty assessed.  
Terminated 6/20/85.

NOTICE OF VIOLATION 85-4-19-1 (6/20/85)

Part 1 of 1            UMC 817.45

Failure to prevent, to the extent possible, additional contributions of  
sediment to stream flow or to runoff outside the permit area.

Cease all discharge into and from the clear water pond until otherwise  
notified in writing by the Division.

Submit complete and adequate plans to the Division detailing what  
measures will be taken to repair the damage to the slurry cell system to  
ensure that discharge from the clear water pond will meet all applicable  
state and federal water quality standards.

Implement said plan immediately upon Division approval.

No penalty assessed.  
Terminated 11/8/85.

NOTICE OF VIOLATION 85-4-20-2 (6/21/85)

Part 1 of 2            UCA 40-10-22(i)(c), UMC 771.19, UMC 817.42(a)(i)

Failure to mine in accordance with an approved interim mine plan  
(parking lot and office area runoff).

Remedial actions completed.

No penalty assessed.  
Terminated 7/25/85.

Part 2 of 2            UMC 817.42(c)

Failure to maintain water treatment facilities (course refuse seep).

Remedial actions completed.

No penalty assessed.  
Terminated 6/28/85.

COMPLIANCE INFORMATION - UTAH

NOTICE OF VIOLATION 85-4-21-3 (7/25/85)

Part 1 of 3                    UCA 40-10-18(2)(i)(ii), UMC 817.41(c),  
   UMC 817.42(a)(1), UMC 817.45

Failure to meet state and federal water quality effluent limitations.

Failure to pass all disturbed area drainage through a sediment pond before leaving the permit area.

Failure to prevent, to the extent possible, additional contributions of sediment to stream flow or to runoff outside the permit area.

Plug both the inlet and outlet of the pipe permanently or remove the culvert.

Abated 7/25/85.

No penalty assessed.

Terminated 8/29/85.

Part 2 of 3                    UCA 40-10-18(2)(i)(ii), UMC 817.42(a)(1),  
   UMC 817.43(c), UMC 817.45

Failure to pass all surface drainage from the disturbed area through a sediment pond before leaving the disturbed area.

Failure to maintain a diversion in a manner which prevents additional contributions of suspended solids to stream flow or runoff outside the permit area.

Failure to minimize erosion to the extent possible.

- A. Maintain the downspout and diversion ditch from the downspout to the sediment pond.
- B. Submit complete and adequate plans to the Division for the stabilization of the old coarse refuse pond area collection ditch, to repair the diversion and protect it from further erosion. Implement these plans immediately upon Division approval.

NOV abatement deadline extended to 9/23/85. Final approval on plans received 10/29/85.

No penalty assessed.

Terminated 2/27/86.

CESSATION ORDER 85-4-8-3 (9/25/85)

Part 1 of 3                    UCA 40-10-22(1)(c), UMC 843.11(b)(1),  
   UMC 843.12(d)

Failure to abate a Notice of Violation within the time set for abatements.



COMPLIANCE INFORMATION - UTAH

Drainage controls were implemented.

No penalty assessed.  
Terminated 9/27/85.

Part 2 of 3                    UCA 40-10-18(2)(i)(ii), UMC 817.45, UMC 817.150(a)(b)  
                                  UMC 817.153(a)(2)

Failure to maintain sediment controls to prevent, to the extent possible, additional contributions of sediment to stream flow or to runoff outside the permit area.

Failure to maintain Class I roads in order to minimize contributions of suspended solids to stream flow or runoff outside the permit area.

Maintain the silt fences at the stream crossing: Clean out sediment collected, dispose of the sediment properly, and reinstall the silt fence as necessary to ensure the runoff does not short circuit it.

Maintain a berm (minimum height 2 feet) along the outside edge of the road where it parallels Grassy Trail Creek and remove the material deposited along the inside of the road which inhibits runoff from the road from entering the slurry ditch.

Abatement deadline 9/17/85.  
Class I drainage controls were maintained.

No penalty assessed.  
Terminated 9/27/85.

CESSATION ORDER 85-4-8-3 (9/25/85)

Part 3 of 3                    UCA 40-10-22(1)(c), UMC 893.11(b)(1),  
                                  UMC 843.12(d)

Failure to abate a Notice of Violation within the time set for abatement.

Comply with the remedial actions required in the violation, immediately.

Class I road drainage controls were maintained.

No penalty assessed.  
Terminated 9/27/85.

Part 3 of 3                    UCA 40-10-22(1)(c), UMC 771.19, UMC 817.45

Failure to mine in accordance with an approved interim permit.

Failure to maintain sediment control measures to minimize erosion to the extent possible.

COMPLIANCE INFORMATION - UTAH

Maintain diversion D-3 to design specifications.

Remove all large boulders from the No. 2 Canyon undisturbed drainage which will significantly obstruct flow.

Abatement deadline 9/23/85.

No. 2 Canyon undisturbed drainages maintained.

No penalty assessed.

Terminated 9/25/85.

NOTICE OF VIOLATION 86-4-5-1 (4/9/86)

Part 1 of 1

UMC 817.42(b)(7)

Failure to comply with water quality laws. The Manshaft and Whitmore Canyon Mine Water Discharge points discharged oil and grease in excess of the allowed limits.

Collected water sample. Sample came back in compliance.

\$680 penalty assessed.

Terminated 4/30/86.

NOTICE OF VIOLATION 86-4-9-1 (8/19/86)

Part 1 of 1

UMC 817.42(a)(1)

Failure to pass all disturbed area runoff through a sediment pond. This was where a bridge had collapsed into the wash coming out of #2 Canyon, evidently damaging a berm along the wash.

Reestablished berm.

\$760 penalty assessed.

Terminated 8/26/86.

NOTICE OF VIOLATION 86-4-12-1 (9/30/86)

Part 1 of 1

UMC 777.19

Failure to mine in accordance with an approved mining permit. Inadequate treatment is available to the runoff from the principal mine surface facilities.

Construction of sediment pond is almost complete. Deadline to correct problem is June 1, 1987.

\$1,300 penalty assessed.

Termination pending inspection.

COMPLIANCE INFORMATION - UTAH

CESSATION ORDER 86-4-4-1 (10/14/86)

Part 1 of 1                      UMC 843.11(b)(1), UMC 843.12(d),  
UCA 40-10-22(1)(c)

Failure to abate a Violation within the abatement period fixed by  
the Division. (N86-4-12-1)

Plans for pond were submitted and approved.

\$1,500 penalty assessed.

Terminated 10/30/86.

NOTICE OF VIOLATION 87-22-1-1 (5/21/87)

Part 1 of 1                      UMC 771.19, UMC 817.52  
UCA 40-10-22

Failure to mine in accordance with approved plan.

Failure to analyze water quality samples in accordance with an approved  
water monitoring plan.

Penalty pending.

Termination pending.

COMPLIANCE INFORMATION - COLORADO

Kaiser Steel Corporation  
Chimney Rock Coal Mine  
Archuleta County, Colorado

Regulatory Authority  
State of Colorado  
Department of Natural Resources  
Mined Land Reclamation Division  
Denver, Colorado

NOTICE OF VIOLATION 83-5 (2/83)

Failure to submit the information required by Stipulations 13, 20, and 22 by the required time frames. The information was due February 6 and was submitted February 9.

Assessment conference held 4/14/83.  
\$1,050 penalty assessed.  
Terminated.

NOTICE OF VIOLATION 83-6 (2/83)

Failure to adequately mark the permit boundary. As a result, surface coal mining operations were being conducted outside of the approved permit area. The area was flagged off and equipment kept out. Disturbance was on a rocky area, so as to keep it to a minimum.

Assessment conference held 4/14/83.  
\$1,100 penalty assessed.  
Terminated.

NOTICE OF VIOLATION 83-10 (3/83)

Operator failed to comply with the terms of the approved permit. Specifically, sedimentation pond 004 was constructed closer to the ephemeral drainage channel than approved. The toe of the outslope of the embankment is less than 4 feet from the centerline of drainage. The pond has been reconstructed so that the outside toe of the west embankment is 40 feet from the centerline of ephemeral drainage channel.

\$900 penalty assessed.  
Terminated.

NOTICE OF VIOLATION 83-40 (8/83)

Operator augered coal beyond permit boundary. One hole was approximately 10 feet to 20 feet beyond line.

\$800 penalty assessed.  
Terminated.

COMPLIANCE INFORMATION - COLORADO (continued)

NOTICE OF VIOLATION 83-29 (10/83)

Issued for failure to provide documentation that adequate bonding will be available for the mine site past the expiration date of the existing bond.

No penalty assessed.

Abated 11/9/83.

NOTICE OF VIOLATION C-84-14 (2/16/84)

Act Section(s) 34-33-120(2)(e)

Regulation Section(s) 4.06.1 and 4.06.4(2)(b)

Failure to protect topsoil and failure to follow approved mine plan. Specifically a portion of the southern half of the east pit which has been topsoiled and seeded during the fall of 1983, subsequently had spoil material placed over it which compacted and contaminated the topsoil.

Assessment conference held 4/3/84.

\$1,100 penalty assessed.

Abatement plan submitted to the Division on 3/2/84.

Terminated 5/30/84.

NOTICE OF VIOLATION C-84-21 (2/16/84)

Act Section(s) 120(2)(e)

Regulation Section(s) 4.06.3(2)(b)

Moving a soil stockpile without Division approval. Specifically the stabilized and revegetated stockpile west of Sediment Pond No. 002 was moved to a location on top of the graded fill in the east pit area.

Informal hearing held 4/3/84.

\$2,175 penalty assessed.

Abatement plan submitted to Division on 3/16/84.

Terminated.

NOTICE OF VIOLATION C-84-022 (2/16/84)

Permit Section(s) Sec.2.05 of Permit Revision No. 1

Failure to follow approved mine plan. Specifically fill material was placed to a depth of about 9 feet in an area of approximately 340 by 150 feet by 350 feet by 180 feet. The filled area was located adjacent to and west of Sediment Pond No. 002 in an alluvial valley floor.

Informal hearing held 4/3/84.

\$2,912.50 penalty assessed.

Abatement plan submitted to the Division on 3/16/84.

Terminated 6/7/84.

COMPLIANCE INFORMATION - COLORADO (continued)

NOTICE OF VIOLATION CV-84-024 (3/8/84)

Act Section(s) 120(2)(j)  
Regulation Section(s) 4.05.4

Relocation of the stream channel for Stollsteimer Creek without approval by the Division.

An abatement letter sent to the Division on 3/16/84.  
An informal hearing held on the site on 4/3/84.  
\$2,800 penalty assessed.  
Terminated 6/6/84.

NOTICE OF VIOLATION CV-84-025 (3/8/84)

Act Section(s) 120(2)(e)  
Regulation Section(s) 4.06

Failure to salvage stockpile, and protect topsoil as required.  
An abatement letter was submitted to the Division on 3/16/84.

\$2,225 penalty assessed.  
Terminated 6/6/84.

NOTICE OF VIOLATION CV-84-026 (3/8/84)

Act Section(s) 129(2)(j)(II)  
Regulation Section(s) 4.05.5

Failure to provide an adequate and functional sediment control system.

An abatement plan was submitted to the Division on 3/16/84.  
\$650 penalty assessed.  
Terminated 6/6/84.

NOTICE OF VIOLATION C84-156 (8/23/84)

Regulation Section(s) 4.08.4(2)

Blasting outside times announced in published blasting schedule specifically at 8:20 a.m. on 8/2/84. Schedule called for blasting 1/2 hour from 10 a.m. to 7 p.m.

Assessment conference held 10/2/84.  
\$1,100 penalty assessed.  
Terminated 10/15/84.

COMPLIANCE INFORMATION - COLORADO (continued)

NOTICE OF VIOLATION C-84-171 (11/27/84)

Act Section(s) 34-33-123(2)  
Regulation Section(s) 5.03.2(2)(a)

Failure to follow the approved permit in that subsoil from in place subsoil salvage area F was removed and placed in an unapproved location (the east pit). This material was approved to be placed on the facilities area and on Barren Ridge, but not on the East Pit.

Abatement plan submitted 12/20/84.  
\$1,350 penalty assessed.  
Terminated 12/31/84.

NOTICE OF VIOLATION C-85-087 (12/13/85)

Act Section(s) 33-34-120(2)(x)  
Regulation Section(s) 4.05.18(1)

Surface disturbance within 100 feet of a perennial stream. Pit trenched into the creek alluvium.

NOV was abated prior to 3/13/86 deadline.  
\$1,000 penalty assessed.  
Terminated 1/21/86.

NOTICE OF VIOLATION C-86-055 (07/08/86)

Act Section(s) 34-33-120(2)(j)(II)(A)  
Regulation Section(s) 4.05.2(1)

Failure to pass drainage from the disturbed area through the sediment pond.

NOV was abated prior to 09/08/86 deadline.  
\$200 penalty assessed.  
Terminated 8/25/86.

COMPLIANCE INFORMATION - COLORADO

Kaiser Steel Corporation  
Colorado Coal Mine No. 1  
Huerfano County, Colorado

Regulatory Authority  
State of Colorado  
Department of Natural Resources  
Mined Land Reclamation Division  
Denver, Colorado

NOTICE OF VIOLATION C-83-20 (10/7/83)

Act Section(s) 34-33-123(2)  
Regulation Section(s) 5.02.2(2)(a), 3.02.4(2)(6)

Failure to meet the conditions of permit approval. Specifically, failure to post sufficient bond by 8/25/83 as required by Proposed Decision and Findings of Compliance issued on 6/16/83.

Perma did not meet the deadlines for bonding and was assessed a \$27,000 penalty.

Violation terminated following a hearing with the Mined Land Reclamation Board in 3/84.

NOTICE OF VIOLATION C-84-011 (2/13/84)

Act Section(s) 120(2)(j)(II)  
Regulation Section(s) 4.05.5(1)

Failure to maintain sediment control measures by failure to clean culvert of sediment in the collector ditch.

Culvert was cleaned of sediment.

Assessment conference held 7/6/84.  
\$800 penalty assessed.  
Terminated 7/13/84.

NOTICE OF VIOLATION C-84-012 (2/13/84)

Act Section(s) 120(2)(e)  
Regulation Section(s) 4.07.3(2)(a)(i)

Failure to stabilize and protect stockpile soil materials with an effective vegetative cover.

Operator indicated that the areas had been drilled and seeded in the falls of 1982 and 1983. A fence was installed to protect the revegetation.

Assessment conference held 7/6/84.  
\$1,350 penalty assessed.  
Terminated 7/6/84.

COMPLIANCE INFORMATION - COLORADO (continued)

NOTICE OF VIOLATION C-84-034 (3/8/84)

Act Section(s) 34-33-120(2)(j)  
Regulation Section(s) Rule 4.05.3(3)

Failure to stabilize and maintain diversion ditches.

The diversion ditches were repaired and or reconstructed.

Assessment conference held 7/6/84.  
\$464 penalty assessed.  
Terminated 6/12/84.

NOTICE OF VIOLATION C-84-035 (3/8/84)

Act Section(s) 34-33-123(2)  
Regulation Section(s) 5.03.2(2)(a)

Failure to follow the approved mine plan. Specifically, constructing a diversion ditch which was not approved by the Division.

A technical revision was submitted in order to bring the ditch into compliance.

Assessment conference held 7/6/84  
\$400 penalty assessed.  
Terminated 6/12/85.

NOTICE OF VIOLATION C-84-036 (3/8/84)

Act Section(s) 34-33-120(2)(j)(II)(A)  
Regulation Section(s) 4.05.6(8)(g)

Failure to stabilize the pond embankment with respect to erosion by establishing a vegetative cover.

The problem was mitigated by previous seeding and new fencing. With further information the Division agreed that the material in question was not a pond embankment, but rather an overburden stockpile, and as a result it was not subject to the same requirements for stabilization and vegetative cover.

Vacated 7/9/84.

NOTICE OF VIOLATION C-84-037 (3/8/84)

Act Section(s) 34-33-120(2)(j)(II)(B)  
Regulation Section(s) 4.05.6(t)

COMPLIANCE INFORMATION - COLORADO (continued)

Failure to have sedimentation pond certified by a qualified registered professional engineer following construction and submit such certification to the Division.

Certification was submitted to the Division.

Vacated 7/12/84.

NOTICE OF VIOLATION C-84-038 (3/8/84)

Act Section(s) 34-33-122(2)

Regulation Section(s) 4.05.13(1)

Failure to monitor ground water.

A monitoring plan was submitted to the Division by Mr. Rob Traylor by Piteau and Associates. Monitoring has been ongoing since.

Assessment conference held 7/6/84.

\$500 penalty assessed.

Terminated 6/12/84.

NOTICE OF VIOLATION C-84-069 (4/23/84)

Act Section(s) 34-33-120(2)(j)

Regulation Section(s) 4.04(3), 4.05(1)

Failure to maintain drainage control structures.

Specifically, failure to clean the diversion ditch of sediment by the specified compliance deadline.

Ditch was cleaned and reconstructed. Surveys were completed in order to assure proper grades.

Assessment conference held 7/6/84.

\$900 penalty assessed. See Cessation Order C-84-129.

CESSATION ORDER C-84-125 (6/25/84)

Act Section(s) 34-33-123(3)

Regulation Section(s) 5.03.2(3)

Failure to properly abate NOV C-84-012.

A letter of explanation was issued to the Division on 7/10/84.

Terminated 7/5/84.

COMPLIANCE INFORMATION - COLORADO (continued)

CESSATION ORDER C-84-126 (6/25/84)

Act Section(s) 34-33-123(3)  
Regulation Section(s) 5.03.2(3)

Failure to abate NOV C-84-034.

A letter of explanation was issued to the Division on 7/10/84.

Terminated 7/5/84.

CESSATION ORDER C-84-127 (6/25/84)

Act Section(s) 34-33-123(3)  
Regulation Section(s) 5.03.2(3)

Failure to properly abate NOV C-84-035.

A letter of explanation was sent to the Division on 7/10/84.

Terminated 7/5/84.

CESSATION ORDER C-84-128 (6/25/84)

Act Section(s) 34-33-123(3)  
Regulation Section(s) 5.03.2(3)

Failure to properly abate NOV C-84-036.

A letter of explanation was sent to the Division.

Vacated along with NOV C-84-036 on 7/9/84.

CESSATION ORDER C-84-129 (6/25/85)

Act Section(s) 34-33-123(3)  
Regulation Section(s) 5.03.2(3)

Failure to properly abate NOV C-84-069.

Ditch problem was mitigated.

Assessment conference held 9/10/84.

\$850 penalty assessed.

Terminated 7/5/84.

NOTICE OF VIOLATION C-84-155 (8/15/84)

Act Section(s) 34-33-111(1)(e), 120(2)(e), 120(2)(j)(II)(A)  
Regulation Section(s) 2.05.3(6), 4.06, 4.05.2(1)

COMPLIANCE INFORMATION - COLORADO (continued)

Assessment conference held on 9/10/84.  
\$850 penalty assessed.  
Terminated 12/18/84.

NOTICE OF VIOLATION C-84-161 (9/26/84)

Act Section(s) 34-33-120(2)(j)  
Regulation Section(s) Rule 4.05.3(3)

Failure to maintain diversion culvert.

Culvert was removed and cleaned.

Assessment conference held 12/11/84.  
No penalty assessed, since the county road ditch contributed most of the sediment which clogged the culvert.

A new culvert was to be installed by the county.  
Terminated 11/26/84.

NOTICE OF VIOLATION C-85-017 (3/6/85)

Act Section(s) 34-33-122(2)  
Regulation Section(s) Rule 4.05.12(2)(c)

Failure to maintain surface water monitoring station.

Vandalized station was replaced immediately.  
Informal conference held 5/20/85.  
No penalty assessed.  
Terminated 3/15/85.

NOTICE OF VIOLATION C-86-028 (4/8/86)

Act Section(s) 120 (2)(j)  
Regulation Section(s) 4.07.1(b)(c)

Failure to plug, seal or otherwise maintain exploration holes and wells within the permit area No. (C-81-024).

Holes were either reclaimed or sealed.

Assessment conference held 6/3/86.  
Penalty was reduced from \$500 to \$400.  
Termination pending.

COMPLIANCE INFORMATION - COLORADO (continued)

NOTICE OF VIOLATION C-86-029 (4/8/86)

Act Section(s) 120 (2)(j)  
Regulation Section(s) 4.07.1 (b)(c)

Failure to plug, seal or otherwise maintain holes and wells within exploration permit No. (No1-CX127-01)

Holes were backfilled and seeded.

Assessment conference held 6/3/86.  
Penalty was reduced from \$500 to \$400.  
Termination pending.

COMPLIANCE INFORMATION - NEW MEXICO

Kaiser Coal Corporation  
York Canyon Mines  
Colfax County, New Mexico

Regulatory Authority:  
State of New Mexico  
Energy and Minerals Department  
Mining & Minerals Division  
Santa Fe, New Mexico

NOTICE OF VIOLATION 011 (08/31/83)

Part 1 of 1                      Rule 80-1, Chapter K Section 22

Underground leakage of diesel fuel from buried diesel line polluting undetermined portion of York Canyon alluvial aquifer.

Diesel leak was abated within 90 days.

No penalty assessed.

Terminated 11/28/83.

NOTICE OF VIOLATION 144 (4/18/84)

Part 1 of 1                      Rule 79-1, Section 21, Topsoil Handling

Failure of the operator to stockpile topsoil in a stable area.

Constructed ditch/berm adjacent to stockpile.

Informal conference held 6/15/84.

No penalty assessed.

.5 History Points.

Terminated 5/21/84.

NOTICE OF VIOLATION 145 (4/18/84)

Part 1 of 1                      Rule 79-1, Section 21 Topsoil Handling

Failure to segregate topsoil material from mine out overburden material.

Constructed ditch/berm around topsoil stockpile.

Informal conference held 6/15/84.

No penalty assessed.

.5 History Points.

Terminated 5/21/84.

NOTICE OF VIOLATION 146 (4/18/84)

Part 1 of 1                      Rule 79-1, Section 19, Backfilling and Grading

Failure to stabilize rills and gullies over nine inches deep.

COMPLIANCE INFORMATION - NEW MEXICO (continued)

Filled rills and gullies with topsoil or rock material.

Informal conference held 6/15/84.

No penalty assessed.

.5 History Points.

Terminated 5/21/84.

NOTICE OF VIOLATION 147 (4/18/84)

Part 1 of 1                    Rule 79-1, Sections 23(E)(8) and 15(b) and NMSA  
Section 69-25A-19(B)(10)(C)

Failure to be certified by a qualified professional engineer registered in New Mexico for all structures which act as the final impoundment of runoff from the permit area.

Informal conference held 6/15/84.

Vacated 7/2/84.

NOTICE OF VIOLATION 150 (5/28/84)

Part 1 of 1                    Rule 79-1, Section 19, Backfilling and Grading  
(715.14)(1)

Failure to stabilize rills and gullies over nine inches deep.

Informal conference held 7/20/84.

No penalty assessed.

.5 History Points

Terminated 7/3/84.

NOTICE OF VIOLATION 155 (6/12/84)

Part 1 of 1                    Rule 79-1, Section 21, Topsoil Handling

Failure of operator to remove contamination from the topsoil stockpile and to prevent water erosion of topsoil stockpile.

Constructed berm around topsoil stockpile.

Informal hearing held 7/20/84.

\$1,000 penalty assessed.

1 History Point

Terminated 7/3/84.

NOTICE OF VIOLATION 156 (7/6/84)

Part 1 of 2                    Rule 79-1, Section 23(e)(vi)(5)

Failure of the operator to have a properly installed (constructed) spillway system for a sediment pond.

COMPLIANCE INFORMATION - NEW MEXICO (continued)

Informal conference held 8/2/84.  
Vacated 9/7/84.

Part 2 of 2                    Rule 79-1, Section 23(1)(2)(iii)

Failure of the operator to construct culverts to avoid erosion at inlets and outlets.

Informal conference held 8/2/84.  
Vacated 9/7/84.

NOTICE OF VIOLATION 157 (7/6/84)

Part 1 of 1                    Rule 79-1, Section 23(vi)(f)

Failure of the operator to control discharges from sedimentation ponds and diversions to reduce erosion and prevent deepening or enlargement of stream channels and to minimize disturbances to the hydrologic balance.

Rip Rap material placed in discharges of diversion and spillway.

Informal conference held 8/2/84.  
No penalty assessed.  
.5 History Points  
Terminated 8/24/84.

NOTICE OF VIOLATION 158 (7/6/84)

Part 1 of 1                    Rule 79-1, Section 19(i)

Failure of the operator to regrade or stabilize rills and gullies deeper than nine inches that have formed in areas that have been regraded and the topsoil replaced but vegetation has not yet been established.

Rip rap material placed in rills.

Informal conference held 8/2/84.  
No penalty assessed.  
.5 History Points  
Terminated 8/24/84.

NOTICE OF VIOLATION 159 (7/6/84)

Part 1 of 1                    Rule 79-1, Section 23(e)(vi)(5)

Failure of the operator to have a properly installed (constructed) spillway system for sedimentation pond.

Informal conference held 8/2/84.  
Vacated 9/7/84.

COMPLIANCE INFORMATION - NEW MEXICO (continued)

NOTICE OF VIOLATION 160 (7/6/84)

Part 1 of 1                    Rule 79-1, Section 69-25A-19(B)(10)(C) NM-CSMS  
Section 25(E)(8)

Failure of the operator to have all sedimentation structures (ponds) which present suspended solids to stream flow or runoff outside of the permit area, to be certified after construction by a qualified professional engineer registered in New Mexico.

Informal conference held 8/2/84.

No penalty assessed.

.5 History Points.

Terminated 10/9/84.

NOTICE OF VIOLATION 161 (7/10/84)

Part 1 of 1                    Rule 79-1, NMSA Section 69-25A-19(B)(10)(C) NM CSMS  
Section 23(E)(8)

Failure of the operator to have all sedimentation structures (ponds) which present suspended solids to stream flow or runoff outside of the permit area, to be certified after construction by a qualified professional engineer registered in New Mexico.

Informal conference held 8/2/84.

No penalty assessed.

.5 History Points.

Terminated 10/9/84.

NOTICE OF VIOLATION 165 (8/14/84)

Part 1 of 1                    Rule 79-1 NMSA Section 21(B)(iii) NM CSMS Section  
19(1)

Failure of operator to protect topsoil from wind and water erosion.

Failure of operator to regrade or stabilize rills or gullies deeper than nine inches.

Informal conference held 10/15/84.

No penalty assessed.

.5 History Points.

Terminated 9/14/84.

NOTICE OF VIOLATION 191 (10/18/84)

Part 1 of 2                    Findings of fact 6(d) Permit No. 1-A-2 Surface  
Conclusions of law 3 Permit No. 1-A-2 (Surface)

Failure of the operator to fulfill the conditions of their permit.  
(Findings of fact, conclusions of law.) The operator graded, topdressed

COMPLIANCE INFORMATION - NEW MEXICO (continued)

and seeded an area (slope) in excess of 15 degrees and in excess of that which occurred before mining. The slope was measured in two areas with a clinometer. Measured slopes were 37% ( $20^{\circ} 18'$ ) and 42% ( $22^{\circ} 47'$ ).

Informal hearing held 1/14/85.

No penalty assessed.

.5 History Points.

Terminated 1/16/85.

Part 2 of 2                      Rule 79-1, Section 19(i)

Failure of the operator to regrade or stabilize rills and gullies deeper than nine inches that have formed in areas that have been regraded and topsoil replaced but vegetation has not yet been established.

Informal hearing held 1/14/85.

Vacated 1/14/85; NOV was improperly written.

Order to Show Cause (12/7/84)

NMSA Section 69-15A-25(c) (1978 Comp.)

Stipulated agreement signed between MMD and Kaiser

Public hearing held 1/18/85.

No revocation of permit.

NOTICE OF VIOLATION 192 (12/28/84)

Part 1 of 1                      Rule 79-1, Section 69-25A-19(B)(14) CSMC Section 23(e)(2)(i)

Failure of the operator to ensure that all debris are treated or buried and compacted or otherwise disposed of in a manner designed to prevent contamination of ground or surface waters.

Failure of the operator to provide 24-hours theoretical detention time for the inflow or runoff entering a pond from a 10 year 24 hour precipitation event. The operator discharged water from a pond containing some contaminants into the York Canyon stream in the absence of a 10 year 24 hour precipitation event (surface oil).

Informal hearing held 2/18/85.

No penalty assessed.

Vacated 3/8/85.

COMPLIANCE INFORMATION - NEW MEXICO (continued)

NOTICE OF VIOLATION 193 (12/28/84)

Part 1 of 1                      Rule 79-1, Section 69-25A-19(B)(17) CSMC Section 23(L)(2)(i)

Failure of the operator to maintain roads in a manner that decreases erosion. Runoff from an active access road had been discharged onto an undisturbed area in a manner that created rills and gullies deeper than nine inches.

Informal hearing held 2/18/85.

No penalty assessed.

.5 History Points.

Terminated 1/8/85.

NOTICE OF VIOLATION 200 (2/21/85)

Part 1 of 3                      Rule 80-1, Section 19-15(j)

Failure of the operator to restrict their surface facilities and areas to be disturbed to those areas described under Items # 1, 3, and 4 of the exploration plan section of permit application.

Failure of the operator to provide sediment control measures.

Failure of operator to notify MMD by letter of any deviations from the exploration plan.

Failure of the operator to protect off-site areas from damage by locating any part of the operations outside the permit area.

Informal hearing held 4/4/85.

\$1,200 assessed.

Terminated 4/29/85.

Part 2 of 3                      NMSA Section 69-25A-19(B)(17)

Failure of the operator to maintain a primary road so as to control or prevent erosion and siltation. A discharge(s) from the primary access road caused erosion in excess of nine inches. The road berm had apparently been intentionally breached to allow discharge of water which had collected on the road surface.

Informal hearing held 4/4/85.

\$1,100 penalty assessed.

Terminated 4/29/85.

Part 3 of 3                      Permit E-18 Coal Exploration Stipulation #7

Failure of the operator to notify the Mining and Minerals Division by letter of any deviations from the exploration plan section of the exploration mine permit application for the upper left fork seam in the

COMPLIANCE INFORMATION - NEW MEXICO (continued)

Upper York Canyon Exploration Permit #E-16. The operator drilled a well within the permit area that was not included in the exploration plan.

Informal hearing held 4/4/85.  
No penalty assessed.  
Terminated 4/29/85.

NOTICE OF VIOLATION 207 (9/25/85)

Part 1 of 1 NM 79-1, 23(a)

Description: Failure to pass surface drainage from the disturbed area through a sedimentation pond or a series of sedimentation ponds before leaving the permit area.

Abatement Action Taken: Berm constructed along creek channel.

Proceedings: Informal hearing held 11/25/85; NOV upheld; \$380 penalty assessed.

Status: Pending construction of pond. State has approved designs.

NOTICE OF VIOLATION 208 (11/5/85)

Part 1 of 1 NM 69-25A-25(B)

Description: Failure to comply with the mine plan as required in the permit.

Abatement Action Taken: Ceased pumping from tailings dam #3.

Proceedings: Informal hearing held 12/5/85, results pending.

Status: Violation pending.

NOTICE OF VIOLATION 225 (6/19/85)

Part 1 of 1 NM 79-1, 20-23(b)

Description: Failure of the operator to selectively place topdressing on a stable area in a manner where it will not be disturbed or subject to wind and water erosion, unnecessary compaction of contaminants. The operators excavated topdressing but did not place material in a stockpile or other stable protected area.

Abatement Action Taken: Topsoil was redistributed, seeded and mulched.

Proceedings: No penalty assessed.

Status: Terminated 7/6/85.

COMPLIANCE INFORMATION - NEW MEXICO (continued)

NOTICE OF VIOLATION 263 (11/5/85)

Part 1 of 1                    NMCMC Rule 79-1, Section 25(e)(1)(v) NMCCNC Rule 79-1, Section 17(c)

Description:    Failure of operator to conspicuously display signs reading "Blasting Area" at the edge of blasting areas along access and haul roads within the mine property.

Abatement Action Taken:    Blasting sign displayed in pattern area.

Proceedings:    Informal hearing held 12/5/85.

Status:        Vacated 12/27/85.

NOTICE OF VIOLATION 276 (06/25/86)

Part 1 of 3                    NM CSMC Rule 80-1, Section 20-83(b)

Failure to divert surface drainage from the area above a coal processing waste bank and from the crest and face of the waste disposal area in accordance with Section 20-72(d).

Informal hearing held 07/11/86.

No penalty assessed.

Terminated 07/25/86.

Part 2 of 3                    NM CSMC Rule 80-1, Section 20-85(c)(1)

Failure to spread coal processing waste in layers no more than 24 inches in thickness.

Informal hearing held 07/11/86.

No penalty assessed.

Terminated 07/25/86.

Part 3 of 3                    NM CSMC Rule 80-1, Section 20-92(b)

Failure of the operator to divert surface drainage that may cause erosion to the embankment area or embankment features away from the embankment by diversion ditches that comply with the requirements of Section 20-43.

Informal hearing held 07/11/86.

No penalty assessed.

Terminated 07/25/86.

COMPLIANCE INFORMATION - NEW MEXICO (continued)

NOTICE OF VIOLATION 277 (06/25/86)

Part 1 of 2 NM CSMC Rule 80-1, Section 20-42(a)(6)

Failure to construct required sedimentation ponds in appropriate locations before beginning any surface coal mining operations in the drainage to be affected.

Informal hearing held 07/11/86.

No penalty assessed.

Terminated 07/25/86.

Part 2 of 2 NM CSMC Rule 80-1

Failure to comply with the terms and conditions of the approved permit:  
Failure to construct the diversion in two phases that would not disturb the stream channel until actual tie-in occurs.

Informal hearing held 07/11/86.

\$2,000 penalty assessed.

Terminated 07/25/86.

NOTICE OF VIOLATION 278 (07/11/86)

NM CSMC Rule 80-1, Section 20-82(a)(1-4)

Failure to conduct site inspections of coal processing waste bank.

Informal hearing held 08/29/86.

No penalty assessed, 1/2 history point.

Terminated 09/05/86.

CESSATION ORDER NO. C-80-86-01 (07/11/86)

NM CSMC Rule 80-1, Section 20-82(a)(1-4)

Failure to conduct site inspections of a coal processing waste bank.

Informal hearing held 08/29/86.

Vacated 09/05/86.

NOTICE OF VIOLATION 228 (07/21/86)

NMSA Section 19-b-4

Failure to stabilize and protect all surface areas affected by the surface coal mining and reclamation operation to effectively control erosion, resulting in a gully in excess of two feet deep on area reclaimed prior to S.M.C.R.A.

No penalty assessed.

Abatement to be completed by revegetation in 1987.

NOTICE OF VIOLATION 205 (08/19/86)

NM CSMC Rule 80-1, Section 20-46, Section 20-47

Failure of the operator to provide detention time for the inflow entering a sediment pond from a 10-year, 24-hour precipitation event. Failure to control discharge from a sediment pond so as to control erosion.

No penalty assessed.  
Terminated 09/22/86.

NOTICE OF VIOLATION 286 (1/22/87)

NM CSMC Rule 80-1, Section 20-89(a)

Failure of the operator to store non-coal waste in a controlled manner in a designed portion of the permit area.

No penalty assessed.  
Terminated 2/2/87.

NOTICE OF VIOLATION 351 (4/1/87)

NM CSMC Rule 80-1, Section 20-100

Failure to perform efforts, including, but not limited to, backfilling, grading, topdressing replacement and revegetation of all land that is disturbed by surface coal mining operations as contemporaneously as practicable with mining operations.

No penalty assessed.  
Abated 2/24/87.

**Appendix I-3**  
**Insurance Information**

# COCORO CERTIFICATE OF INSURANCE

DATE (MM/DD/YY) 4-1-87 1p

**PRODUCER**  
  
SH & MCLENNAN, INC.  
3303 WILSHIRE BLVD.  
LOS ANGELES, CA 90010

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

## COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A** NATIONAL UNION FIRE INSURANCE COMPANY
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

**INSURED** KAISER STEEL CORPORATION  
P.O. BOX 5050  
FONTANA, CA 92335

## COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIABILITY LIMITS IN THOUSANDS		
					EACH OCCURRENCE	AGGREGATE	
A	<b>GENERAL LIABILITY</b>	GLA 5010595 RA	4-1-87	4-1-88	BODILY INJURY	\$	\$
	<input checked="" type="checkbox"/> COMPREHENSIVE FORM				PROPERTY DAMAGE	\$	\$
	<input checked="" type="checkbox"/> PREMISES/OPERATIONS				BI & PD COMBINED	\$ 1,000	\$ 1,000
	<input checked="" type="checkbox"/> UNDERGROUND EXPLOSION & COLLAPSE HAZARD				PERSONAL INJURY		\$ 1,000
	<input checked="" type="checkbox"/> PRODUCTS/COMPLETED OPERATIONS						
	<input checked="" type="checkbox"/> CONTRACTUAL						
	<input checked="" type="checkbox"/> INDEPENDENT CONTRACTORS						
	<input checked="" type="checkbox"/> BROAD FORM PROPERTY DAMAGE						
	<input checked="" type="checkbox"/> PERSONAL INJURY						
	<b>AUTOMOBILE LIABILITY</b>				BODILY INJURY (PER PERSON)	\$	
	<input type="checkbox"/> ANY AUTO				BODILY INJURY (PER ACCIDENT)	\$	
	<input type="checkbox"/> ALL OWNED AUTOS (PRIV. PASS.)				PROPERTY DAMAGE	\$	
	<input type="checkbox"/> ALL OWNED AUTOS (OTHER THAN PRIV. PASS.)				BI & PD COMBINED	\$	
	<input type="checkbox"/> HIRED AUTOS						
	<input type="checkbox"/> NON-OWNED AUTOS						
	<input type="checkbox"/> GARAGE LIABILITY						
	<b>EXCESS LIABILITY</b>				BI & PD COMBINED	\$	\$
	<input type="checkbox"/> UMBRELLA FORM						
	<input type="checkbox"/> OTHER THAN UMBRELLA FORM						
	<b>WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY</b>				STATUTORY		
					\$	(EACH ACCIDENT)	
					\$	(DISEASE-POLICY LIMIT)	
					\$	(DISEASE-EACH EMPLOYEE)	
	<b>OTHER</b>						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

## CERTIFICATE HOLDER

STATE OF UTAH  
UTAH DIVISION OF OIL, GAS & MINING  
355 W. NORTH TEMPLE  
3 TRIAD CENTER - SUITE 350  
SALT LAKE CITY, UT 84180-1203

## CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

*Martin S. Frank*

**Appendix I-4**  
**Newspaper Advertisement**

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## **CHAPTER II**

# **MAINTENANCE PLAN**

VOLUME 1

Chapter II MAINTENANCE PLAN

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II-2 Underground Development

## 2.1 Description of Present Disturbance

Presently there are 63.6 acres of disturbance caused by mining activities in the mouth of Horse Canyon and in Lila Canyon, of which approximately two acres have been temporarily reclaimed. The disturbances are of five different types: 1) waste disposal, 2) cuts and fills in the canyon side slopes, 3) construction of mining facilities, 4) exposure of the coal seam for portals and 5) roads.

### 2.1.1 Surface Disturbance Areas

The activities associated with surface disturbance can be broken into five categories: 1) mine support facilities, 2) transportation facilities, 3) waste disposal facilities, 4) water treatment facilities and 5) mining openings. Most of the mine facilities and other structures were built in 1942 or 1943. The roof bolt shed was built in the early 1970's. The sediment ponds were built in approximately 1978.

All mine facilities are listed with descriptions of individual function in Appendix II-1 and are shown on Plates II-1A,B. Appendix II-1 also contains photographs of most of the surface facilities structures. All of the mine facilities will be inactive during the maintenance period. The buildings have been secured by boarding the windows and locking all doors. Mine portals have been sealed with solid masonry block walls as described in Section 2.3

The structures are maintained in such a condition which follows the guidelines of "to prevent or control erosion and siltation, water pollution and damage to public or private property" (UMC 817.181). The water tank has a two-foot deep trench circling the tank with silt fences positioned at three strategic locations. All four powder magazines and cap storage buildings are recessed into the hillsides to minimize impactation in the event of an accidental discharge. The powder and cap magazines have one-foot thick walls, the older buildings are built with sandstone blocks and the newer buildings with concrete and steel doors. Most of the buildings are posted "Danger Keep Out." All the portals are posted with warning signs. Horse Canyon Creek is an intermittent stream, it does not have the capacity to support fish life within the permit area.

The siltation fences have been placed to prevent suspended solids from runoff or flow from the intermittent stream to exit beyond the permit area. These fences have been placed at the edges of the terraces by the powder magazines; at the crest of the gully by the PCB storage shed and several locations along the intermittent stream.

The auxiliary services, such as telephone, gas, electricity, oil and sewage lines, have been built to but not extending beyond the plant facilities, hence, reclamation of the site will have no potential adverse effects on such facilities.

Necessary signs and markers are in place. Complete and accurate mine identification signs are posted at all access points to the property. Perimeter markers are installed. The topsoil stockpile near the road junction refuse pile has also been marked.

### 2.1.2 Underground Development

Mining has occurred on 3,519 acres in and adjacent to the permit area at the present time. Plate II-2 shows the extent of mining to date and the most recent areas of development. During the maintenance period there will not be development or production of coal in the mine.

## 2.2 Reclamation Accomplished to Date

Interim reclamation was conducted during the fall of 1986 on selected roads and pads that have in the past required yearly maintenance such as grading. It was also felt that these areas were eroding to some extent. This project was conducted by Kaiser Coal, in cooperation with the DOGM. Five separate areas, about 2 acres total, were identified as needing interim revegetation. They generally included steep roads and large facilities pads where no vegetative cover or other soil stabilization was in effect. Plates II-1, A,B show the locations of these temporarily stabilized areas.

Procedures implemented at the Horse Canyon Mine for the purpose of the 1986 interim stabilization were as follows: 1) earthwork and recontouring; 2) seeding, and 3) hydromulching, fertilization, and tackifying. These areas will be posted with signs to prevent vehicular travel.

The earthwork included scarification of the in-place materials by a ripper-equipped tractor. The ground was ripped to a depth of approximately 18 inches to reduce surface compaction, to provide a roughened surface (thus assuring mulch adherence), and to promote vegetational root penetration. Following ripping, most of the area was disked to further breakup the soil material. Ten water bars were constructed approximately 500 feet apart on steep road surfaces to channel water off of the reclaimed surface

and into existing drainage structures and sedimentation ponds.

A majority of the areas were hydroseeded. However, because of access problems, a few small areas were broadcast seeded. The seed mix shown in the letter dated October 15, 1986, from Susan Hasenjager to Philip Ralphs presents the species and seeding rates used. Following broadcast seeding, the areas were raked, harrowed, or dragged with a chain. On hydroseeded areas, the seed was applied in conjunction with 40 pounds of Terra-Tac II and 100 pounds of wood fiber mulch per acre. This first application ensures seed-ground contact. The small amount of mulch acts as a color reference so that the operator can determine adequate and uniform coverage. The tac increases stability of the soil and the seed and thus minimizes the potential for washing during the mulch overspray operation.

The hydromulching, fertilizing, and mulching operation took place as follows. Approximately 2,000 pounds of mulch per acre with 60 pounds of tac in combination with fertilizer was oversprayed on all areas having a slope less than a 2h:1v. On all areas with a 2h:1v slope or greater, the tac was increased to approximately to 80 pounds per acre. Fertilizer was applied at a rate of 200 pounds of 16-16-8 per acre with the mulch and tackifier.

### 2.3 Portal Closures

In the third quarter of 1986 all portals were sealed with solid block walls to prevent unauthorized entry of the mine. The seals used are suitable for temporary closure or permanent reclamation. A complete description and location of the seals is found in Section 4.6.

## 2.4 Regrading

Regrading during the maintenance plan will be restricted to areas that are not essential to future coal mining operations or must be regraded to meet performance standards. These areas are: 1) the landfill, and 2) a section of the public access road adjacent to Horse Creek.

A small section of the public road grade up-canyon from the Trestle (No. 7, Appendix II-1) and adjacent to Horse Canyon Creek will be raised two feet to improve drainage along the road and provide control of the upland disturbed area drainage. Details of the road regrading are found in Sections 4.3.1 and 4.4.1.

A small area of the landfill requires additional cover material to adequately cover the buried debris which presently sticks out of the cover in numerous locations. This will be done by pushing soil from the adjacent area over the area to be covered.

## 2.5 Revegetation

During the maintenance period, several areas will be temporarily vegetated in order to protect soil and hydrologic resources. The goal of the temporary revegetation program is to stabilize disturbed areas that cannot be permanently reclaimed for several years. The areas that will receive interim revegetation stabilization include the following:

- 1) Landfill area which will be regraded or which is filled to capacity
- 2) Berms or other disturbances associated with the construction of sedimentation ponds or related structures (including embankment tops, in- and out-slopes, ditches, borrow areas, etc.).
- 3) Any other areas associated with the facilities areas that are judged to require interim stabilization

All areas will be disturbed again during final reclamation activities and therefore will not be topsoiled. Because backfilling and construction of hydrologic controls will occur just prior to seeding, many of the seedbeds will require no additional preparation. Furthermore, subsequent surface manipulation of these areas would demolish constructed structures.

Procedures that will be utilized will be similar to those implemented during the interim reclamation of 1986 (Section 2.2). Compacted areas will be prepared for seeding by ripping, scarifying, or disking the materials in place. Descriptions of these operations are located in Section 7.4.4. All areas will then be seeded, fertilized, and mulched utilizing standard broadcast or hydroseeder methods described in Section 8.4.2. This method of seeding will probably be utilized since most of these areas are located on relatively steep slopes with rocky soils.

For any areas requiring interim stabilization during the Maintenance Period, fertilizer will be applied at a rate of 313 pounds of 16-16-8 per acre. It should be noted that fertilizer application is somewhat unpredictable with respect to plant response in this region. Consequently, interim stabilization revegetation efforts will be evaluated during the Maintenance Period to determine the effects of fertilization on plant establishment.

The interim seed mix proposed for use for all areas is shown in Table 8.4.1-1 (Interim Reclamation Seed Mixture). This mix contains a combination of native and introduced species, and is proposed because the species establish rapidly and effectively control erosion.

Specific maintenance period interim reclamation measures for each of the areas noted previously are discussed as follows.

Landfill maintenance period protection measures will include regrading and covering all metal scrap and other refuse as discussed in Section 2.4. The seedbed will be prepared as necessary; the area seeded, fertilized, and mulched. Any areas that are filled to capacity and will not be redisturbed will also be prepared and seeded with the interim mix.

Ditches, berms, sediment pond embankments and other disturbances resulting from construction of the hydrologic control measures will be prepared, fertilized, seeded with the interim seed mix, and mulched as described in this section.

## **2.6 Water Treatment**

During the maintenance period, a maintenance runoff control plan will be developed using some of the existing runoff control structures and upgrading other existing structures. This would allow the site to meet the regulatory effluent requirements and to ensure that no significant environmental damage would be caused by the operation.

### **2.6.1 Diversions**

Ten clear water diversions and seven disturbed area diversions will be used to convey water around and through the site during the maintenance period. In the area of the Woodard Portal, a temporary diversion will be constructed to convey the undisturbed drainage from drainage #2 through the disturbed area. These maintenance diversions have been designed to adequately pass the 10 year - 24 hour peak flow. The designs for the maintenance diversion are presented in Chapter VI, section 6.5.1.

Additionally, a series of seven culverts will be used to assist in conveying undisturbed area drainage through the site. Chapter VI, section 6.5.1 describes the location and sizing of these culverts.

## 2.6.2 Sediment Control

Within the disturbed area, and for those undisturbed areas which cannot be diverted, a combination of silt fences and sediment ponds will be used to provide sediment control for the site during the maintenance period. Silt fences will be used to control sedimentation from topographically isolated areas or from temporarily or permanently reclaimed areas. These silt fences will be used with associated berms to ensure that drainage from the area in question will be treated. Section 6.6.1 presents a full description of the areas where silt fences will be used.

Sediment ponds will be used to control sediment from the large area of the site. Eight of the presently existing ponds will be used as part of the maintenance runoff control plan. Each pond has been designed or redesigned to meet the performance standards of the Utah State Program. Each pond will have the ability to contain the total 10 year - 24 hour runoff volume and to contain the 2 year accumulated sediment storage volume. The spillway structure for each pond is designed to pass the 25 year - 24 hour peakflow. Section 6.6.1 describes the sediment pond designs and details.

## 2.7 Environmental Monitoring and Maintenance

This section addressed the concerns of the monitoring efforts that will take place during the maintenance period. This will consist of water quality, sediment volume, revegetation, erosion, structure and safety monitoring activities.

### 2.7.1 Water Quality Monitoring

Existing water monitoring stations will be used for the maintenance program. This will consist of two surface water stations upstream from the disturbed area, RF-1 and HC-1 (see Plate VI-1), and one station downstream from the disturbance, B-1. Any new spring sampling site(s) will also be monitored. Additionally, infrequent sampling locations will be located at each sediment pond. The sampling for these sites will depend on the frequency of pond dewatering and the use of the water.

The sampling frequency and parameters for the surface water stations will be upgraded to conform with the parameter list in the DOGM water monitoring guidelines (Appendix VI-6). For the sediment pond discharges, the frequency will depend upon the frequency of pond dewatering. The parameters to be analyzed for pond dewatering samples will be: Total Suspended Solids (TSS), Total Iron, Total Manganese, pH and Conductivity. Quarterly reports will be submitted to the division; required reports will be submitted to the BWPC regarding sediment pond discharge.

### 2.7.2 Sediment Accumulations

The sediment ponds have been designed to contain a 2 year sediment accumulation as determined using the Universal Soil Loss Equation. The amount of sediment in the ponds will be monitored by use of a staff gauge set to mark when 60 percent of the sediment storage volume has been reached. When this level of storage is reached, the ponds will be cleaned and the sediment will be disposed of in an approved location, selected by Kaiser, which drains into one of the ponds.

### 2.7.3 Revegetation Success

Revegetation success during the maintenance period will be judged by the vegetation's ability to stabilize soils and prevent erosion. Success will be a qualitative determination based upon field observations with Kaiser and DOGM.

### 2.7.4 Erosion Control

During the upgrading of the existing sediment control facilities, temporary sediment control will be provided until the structures are in place and functional. Additionally, during the maintenance period, road and runoff control structures will be maintained in a sound and functional state.

### **2.7.5 Proper Function of Hydraulic Structures**

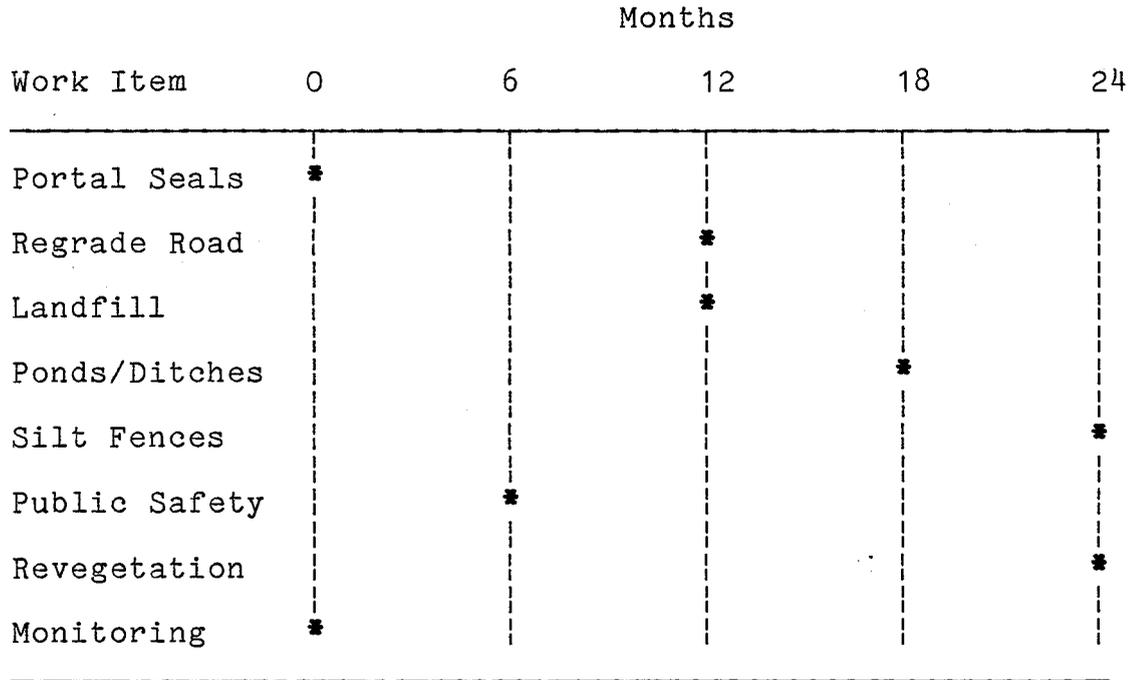
During the maintenance period, all hydraulic structures will be maintained in a functional state. Also, the sediment ponds and berms will be monitored as to structural integrity, erosion, and sediment deposition on a quarterly basis.

### **2.7.6 Public Safety Concerns**

Measures to be taken to protect public safety during the maintenance period at the Horse Canyon property will be essentially the same as those currently in practice. All buildings will be locked and regularly inspected for evidence of entry, attempted entry, or vandalism. In the event that such evidence is found, the Emery County Sheriff's Department will be notified. Those buildings not currently locked or secured with doors that are subject to easy break-in will be either locked or fitted with proper, securable doors.

## 2.8 Schedule and Resources

The different work items described in the chapter will be accomplished over a two year period of time as shown below. The T<sub>0</sub> date on this schedule is the date that Kaiser receives final approval from the Division of Oil, Gas and Mining. The Kaiser Sunnyside Mine will manage the work and will either contract for the work or accomplish it with in-house equipment and personnel.



\* Completion Date

## **List of Appendices**

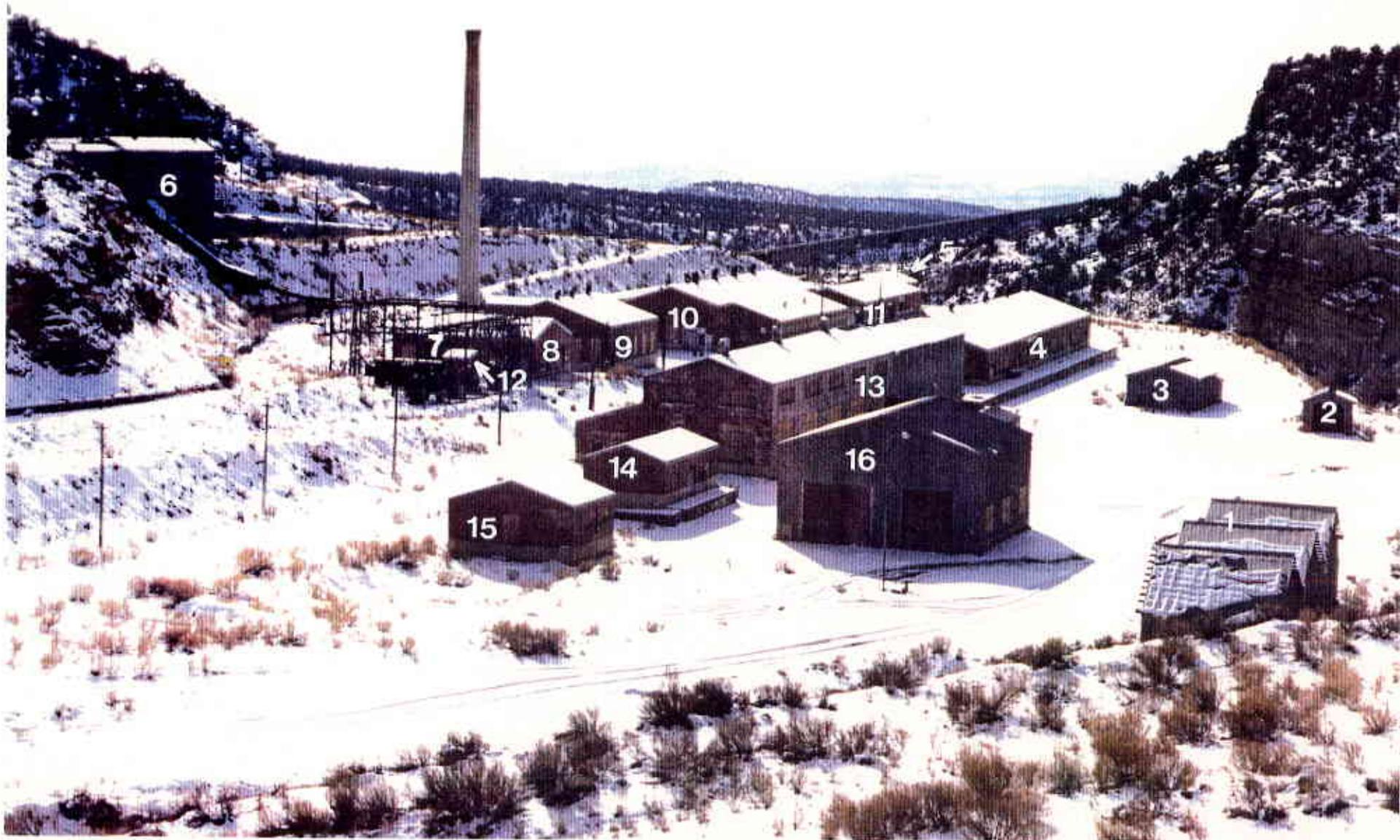
II-1      Description of Mine Facilities

**Appendix II-1**  
**Photos and Description of Mine Facilities**

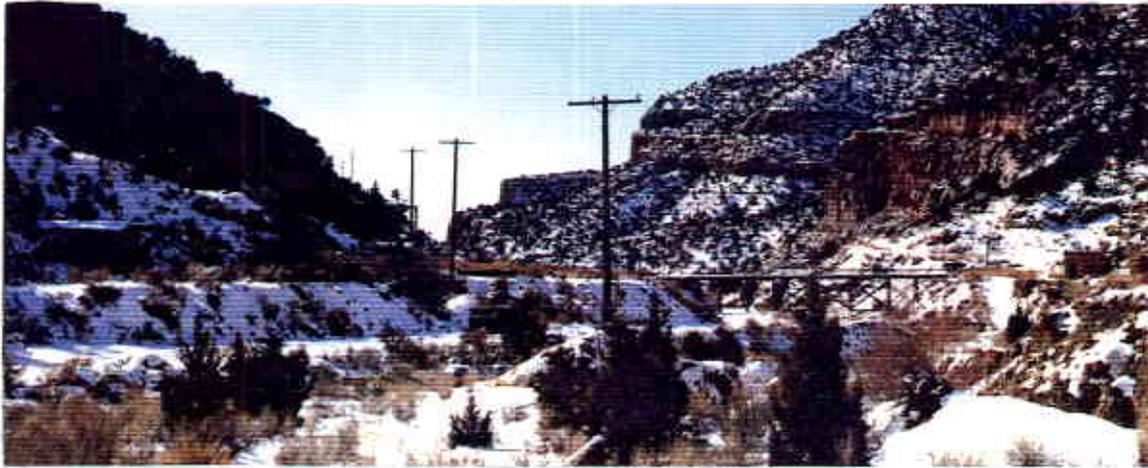
**Please see next page**

### Key For Panoramic 8"x10" Picture

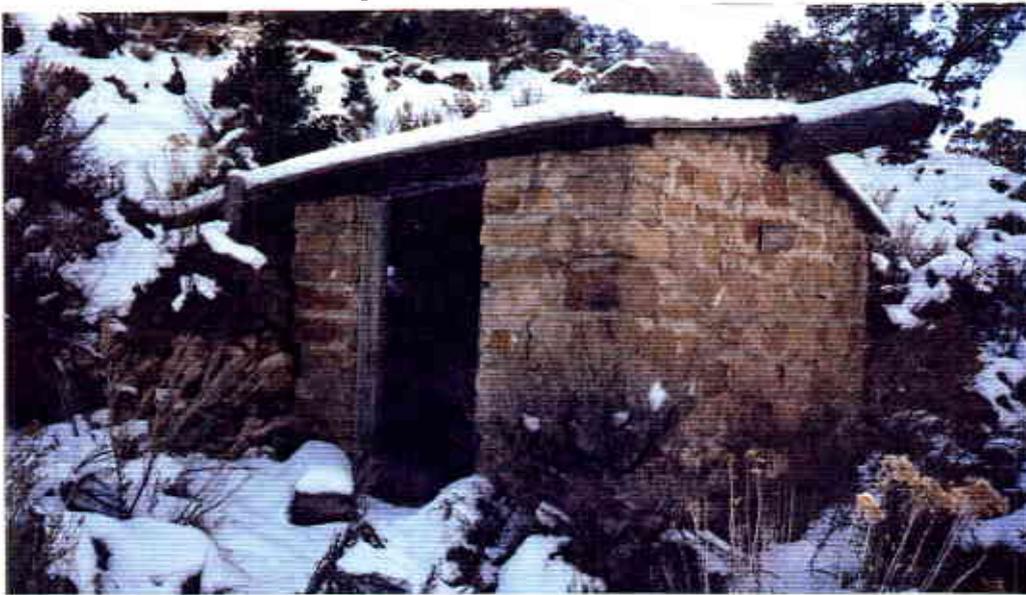
1. Open Air Shed #48, used for storage of motors and large electrical equipment.
2. Storage Shed #10, this building of wood and galvanized steel, stored miscellaneous materials.
3. Truck Garage #9, wood frame plus galvanized steel building, stored lumber.
4. Warehouse #25, masonry construction on a concrete foundation with loading docks. Building contained a carpentry shop and mining supplies.
5. Garage Building #24, masonry construction on a concrete foundation, houses the ambulance and mine rescue facilities.
6. Transfer House-Crusher #34, built of concrete, steel and corrugated steel cover. This building receives raw coal, crushes it, then transfers it via conveyor belt to Tipple.
7. Substation #17, received electrical power from Utah Power and Light, built on a concrete pad and surrounded by chain link fence.
8. Heating Plant #20, masonry building on a concrete foundation. Building contains two coal-fired boilers.
9. Armature Shop #19, contained meter house/electrical controls and electric motor repair.
10. Bath House #21, masonry building with bath and sanitary facilities; supervisory check-in and hydraulic repair shop. The man trip loading station is adjacent (on east) to this building.
11. Mine Office #23, masonry construction. This houses personnel and administrative services.
12. Meter House #18, masonry with concrete foundation, #18 along with #17 converted and distributed power for the mine.
13. Machine Shop #27, masonry construction with a corrugated steel cover on the south section. Building housed maintenance and repair equipment.
14. Oil House #30, masonry and concrete. This building stores oils and greases.
15. Carbonization Laboratory #31, masonry and concrete building.
16. Car Repair Shop #46, a steel-frame building with concrete floor housed repair equipment for underground rails.



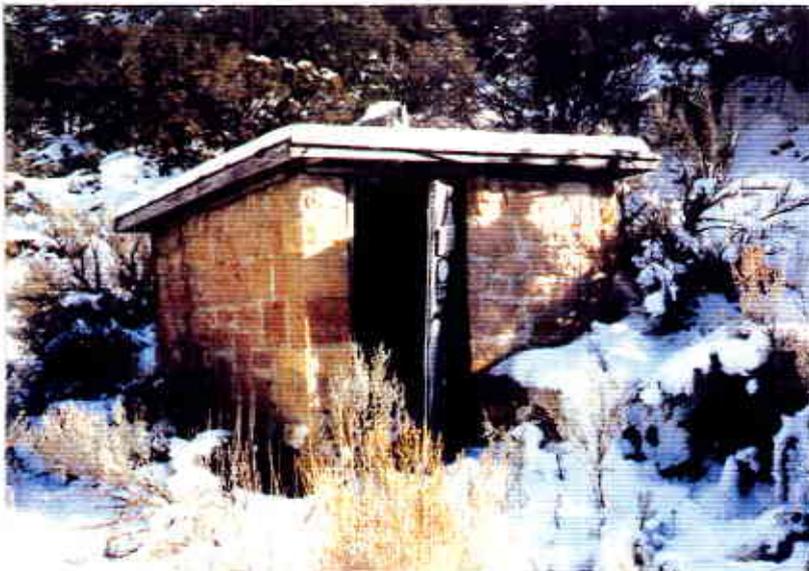
Panoramic 8"x10" View of the Central Service Facilities



View SW far left #4 Powder Bldg.; Trestle #7 above Range Creek center-right; far right Ignition Bldg. #1 North Mine.



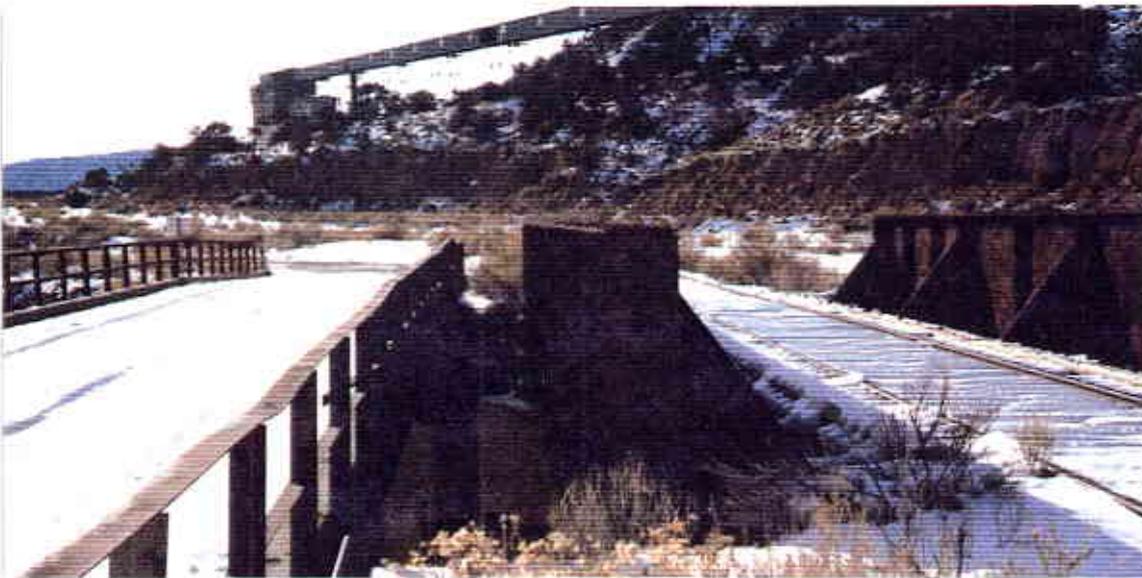
View SE #4 Powder Storage, this is a 6' x 6' sandstone block and mortar bldg. It was used as the blasting powder magazine during the initial opening of mine.



View SE  
#5 Gasoline Storage  
This is a 12' x 15'  
sandstone and mortar bldg.  
used for gasoline storage.  
No smoking signs posted  
on both #4 and #5.



View N #49 North Fan Portal



View SW #64 Railroad Bridge; #35 Conveyor Gallery; and #37 Tipple in center and left.



View N #35 Conveyor Gallery; #43 Pump House, center; and #24 Garage, right.



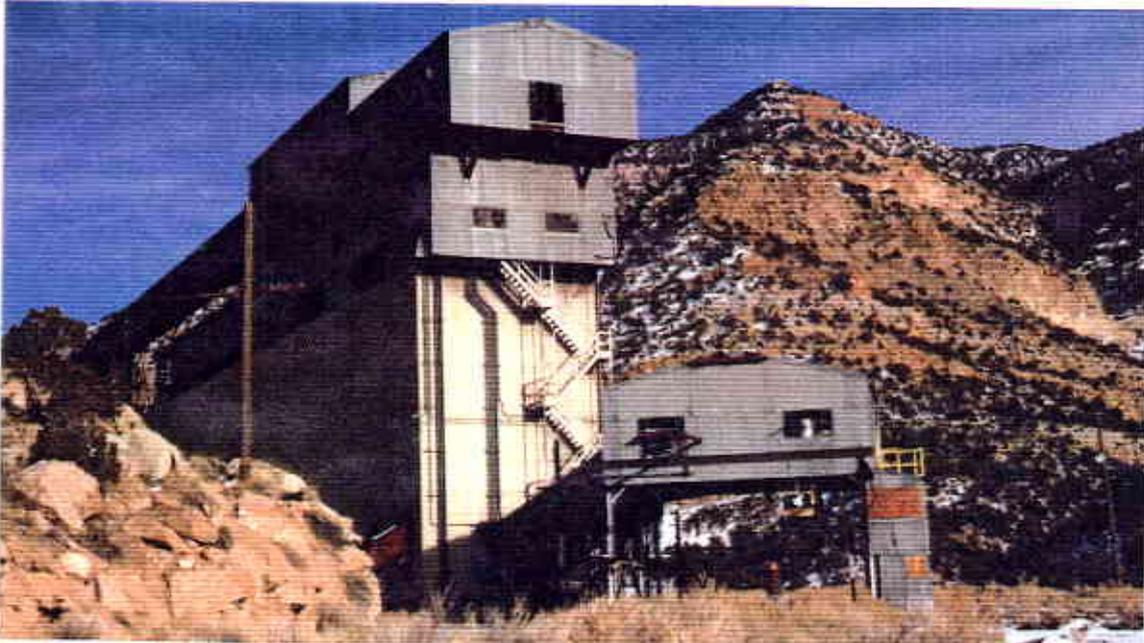
View NE #50 Woodard Portal (east) on left; center right is #1 Ignition Bldg.; lower right #7 Trestle.



View SE #32 Powder Magazine, this is a 24' x 24' concrete bldg. with 1' thick walls and a steel door.



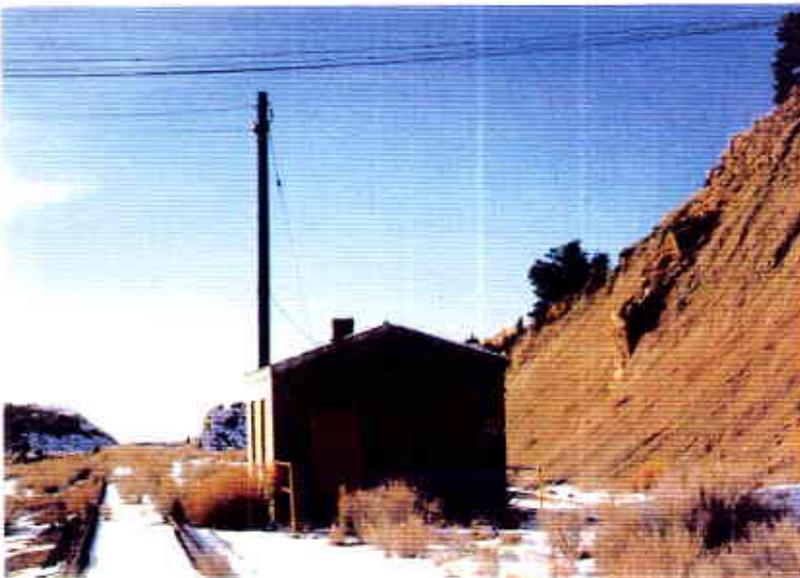
View E #33 Cap Magazine, 12' x 12' concrete bldg. with 1' thick walls, a steel door and both bldgs. have warning signs.



View NE #37 tipple reinforced bldg. It stored 4,000 tons of raw coal. Bldg is equipped with tripper belt and conveyor to feed coal to car loading station.



View SE left #15 oil storage tank. Stored oil for oil heating plant. Right side #45 hose house-small concrete bldg. It stored fire fighting equipment.



View west  
#38 Scale House  
for weighing both  
the trucks and  
railroad cars as  
they leave the mine  
laden with coal.



View SE #44 Hose House small concrete bldg. for fire equipment storage.



Above View SE #42 PCB Storage Shed with a concrete floor with 6" high interior curbs to guard against contaminated oil spill. Below View SE #6 Storage Bldg. used for storing miscellaneous material.



## MINE FACILITIES

(See Plate II-1 A,B for Locations)

1. Ignitron Building - North Mine

This building is a masonry structure on a concrete foundation. The building housed a rectifier that converted AC power to DC power for use in the mine.

2. Bore Hole

The bore hole is a cased 8 inch drill hole used as a two way conduit to pass water from the mine for storage in the metal water tank and from the water tank to the mine for mining processes.

3. Fan House No. 1 - North Mine

The fan house is a concrete building that contains the north fan, fan drive, and electrical equipment associated with the fan. The building couples the fan to the North Mine Fan Portal.

4. Powder Storage

This is a small stone and mortar constructed building that apparently was used as a blasting powder magazine during the initial opening of the mine.

5. Gasoline Storage

This is a stone and mortar constructed building that appears to have been used for gasoline storage.

6. Storage

This is a wood frame building used for storage of miscellaneous materials.

7. Trestle

This is a wood framed structure that bridges the road accessing Range Creek, and couples the North and South portals. The trestle track serves as a switchback for locomotives entering the South portal.

8. Redwood Water Storage Tank

The wooden storage tank acts as a overflow for the metal storage tank.

9. Truck Garage

This is a wood frame - galvanized steel constructed building that is used to house lumber and other materials.

10. Storage

This is a wood frame galvanized steel building used for storage of miscellaneous materials.

11. Sewage Disposal Plant

12. Sewage Disposal Plant Reservoir - 50,000 Gallons

13. Sewage Disposal Plant Pumphouse

These are the Sewage Treatment and Disposal facilities for the Horse Canyon Mine. The buildings are constructed of brick and concrete.

14. Oil Heating Plant

The oil heating plant consists of a galvanized steel building.

15. Oil Heating Plant Oil Tank

The oil tank provides storage for the oil heating plant.

16. Fan House No. 2 - South Mine

This facility consists of a reinforced concrete building which houses the electrically driven ventilating fan and a steel building housing the diesel powered auxiliary ventilating fan.

17. Substation

18. Meter House in Substation

Facilities 17 and 18 are the receiving station for electric power from Utah Power and Light and the conversion and distribution station for the power conserving facilities at the Geneva Mine. The facilities consist of electrical power structures and equipment on concrete pads enclosed by a chain link fence.

19. Meter House and Armature Shop

The meter house and armature shop are of masonry construction on a concrete foundation. This building houses the electrical controls for the Geneva Mine power distribution system. The electric motor repair shop is also contained in this building.

20. Heating Plant

The heating plant is of masonry and reinforced concrete construction on a concrete foundation. This building houses two coal fired boilers for furnishing heat to the Horse Canyon Mine surface facilities.

21. Bath House

The bath house is of masonry construction on a concrete foundation. This building houses the bath and sanitary facilities, the cap lamp charging and distribution facility, the supervisory check-in station, and the hydraulic repair shop.

22. Mantrip Loading Station

The mantrip loading station is a open air wood construction shed. This structure was used to seat men prior to loading a mantrip.

23. Mine Office

The mine office building is of masonry construction on a concrete foundation. This building houses the mine offices for the operating and administrative personnel at the mine.

24. Garage Building

The garage building is of masonry construction on a concrete foundation. The building houses the automotive repair shop, ambulance parking and the mine rescue training facilities.

25. Warehouse

The warehouse is of masonry construction on a concrete foundation with a concrete pad and loading docks. This facility houses the materials and supplies required to support the operation. The warehouse also contains the carpenter shop.

26. Compressor House

The compressor house is of corrugated steel construction on a concrete pad. This building contains the air compressor which supplies the compressed air required in the surface operations.

27. Machine Shop

The Machine shop building is of masonry construction section plus a section of steel frame with a corrugated steel cover and a concrete foundation and floor area. This building houses the shop operation for the mine repair and maintenance functions that are performed on the surface.

28. 400,000 Gallon Metal Water Storage Tank

The storage tank provide the mine with a source of pressurized water for mining equipment and fire control.

29. North Refuse Pile (by North Fan)

The refuse pile contains mine development waste rock. The structure is pre-law in age.

30. Oil House

The oil house is of masonry and concrete construction. The building serves as storage for the oils and greases used at the mine.

31. Carbonization Laboratory

The carbonization laboratory is of masonry construction on a concrete pad and foundation. The building is presently used for storage of miscellaneous materials.

32. Powder Magazine

The powder magazine is a reinforced concrete building which provides blasting powder storage for the mine.

33. Cap Magazine

The cap magazine is a reinforced concrete building which provides blasting cap storage for the mine.

34. Transfer House - Crusher

The transfer house is of concrete and steel with a corrugated steel cover. This building is located at the portal of the rock tunnel that intercepts the coal seam and mine workings underground. The transfer house receives raw coal from the mine on a 54 inch conveyor belt. The raw coal passes through a crusher onto a 48 inch belt for transfer to the tipple.

35. Belt Conveyor Gallery

The belt that conveys the raw coal from the transfer house to the tipple is contained in a steel gallery which is enclosed in a corrugated steel and supported by steel structures.

36. Belt Conveyor - 54 Inch

The conveyor belt that conveys raw coal to the transfer house from the rock tunnel.

37. Tipple

The tipple is a reinforced concrete structure that provides storage of some 4,000 tons of raw coal. The facility is equipped with a tripper belt for blending of the raw coal as it is received and a conveyor with feeders to move the coal from the tipple to the car loading station.

38. Scales - Railroad and Truck

The railroad and truck scales are for weighing the coal as it leaves the mine.

39. Car Loading Station

The car loading station transfers coal from the tipple to rail cars. The structure is constructed of structural steel.

40. Reservoir - 350,000 Gallons

The reservoir provides the mine with storage of water for fire suppression and other industrial uses. This structure is constructed of reinforced concrete.

41. Gallery Bridge

The gallery bridge spans the conveyor south of the office building. The structure is constructed of wood.

42. PCB Storage Shed

The PCB storage shed is a wood framed structure with a concrete floor and six inch high interior concrete curbs. The curbs are used to trap liquids in the event of a spill of contaminated oil.

43. Pump House - Plant Well

The pump house is a cement block building used to protect the alluvial water well.

44. Hose House - Hill Storage Area

The hose house is a small brick and concrete structure used to store fire fighting equipment.

45. Hose House - Tipple Area

The hose house is a small brick and concrete structure use to store fire fighting equipment.

46. Car Repair Shop

The car repair shop is a steel frame building with a concrete slab floor used to repair underground rail equipment.

47. Pump Building

The pump building is a small wooden framed shed with a concrete floor that contained pumps to transfer bulk oil to underground rail equipment.

48. Open Air Shed

The shed is constructed of structural steel and used to store motors and other large electrical equipment.

49. North Fan Portal

50. Woodard Portal (East)

51. Woodard Portal (West)

52. Carlson Portal (East)

53. Carlson Portal (West)

54. Main Intake Portal (South)

55. Manway Portal

- 56. Rock Tunnel Portal
- 57. Main Intake Portal (North)
- 58. South Fan Portal
- 59. Lila Canyon Portals (East and West)

Facilities 49 - 59 are entries leading into the mine. All have been sealed.

- 60. Solid Waste Land Fill

The solid waste land fill is used to dispose of non-coal waste generated by the mining operation.

- 61. Topsoil Storage Area

The topsoil storage area provides a secure storage area for the protection of soil stored for reclamation.

- 62. Road Junction Refuse Pile

The refuse pile is the area designated for the permanent storage of mine development waste rock.

- 63. Hillside Refuse Pile

The refuse pile contains mine development waste rock. The structure is pre-law in age.

- 64. Railroad Bridge

The railroad bridge is a structural steel bridge that spans the Horse Canyon Wash.