

MOUNTAIN COAL COMPANY
1993 ANNUAL REPORT
C.V. SPUR

MOUNTAIN COAL COMPANY
1993 ANNUAL REPORT
C.V. SPUR

Mountain Coal Company

West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015



March 31, 1994

Mr. Lowell Braxton
Administrator
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Mountain Coal Company
1993 Annual Report
C.V. Spur Loadout Facility
ACT/007/022
Carbon County, Utah

Dear Mr. Braxton:

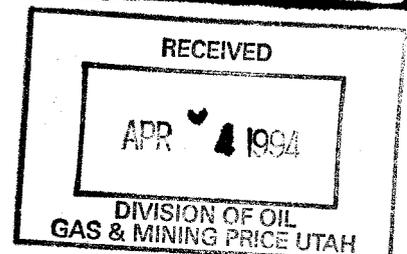
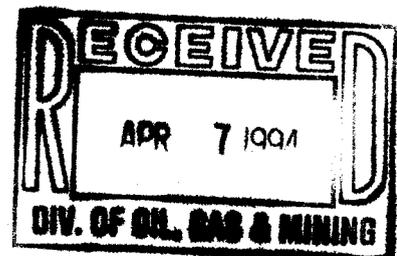
Enclosed is the Annual Report for Coal Mining and Reclamation Operations for 1993 for the C.V. Spur Loadout Facility.

If you have any questions, or need any further information, please contact me or Kathleen Welt at Mountain Coal Company.

Respectfully,

Dan W. Guy P.E.
for
Kathleen G. Welt

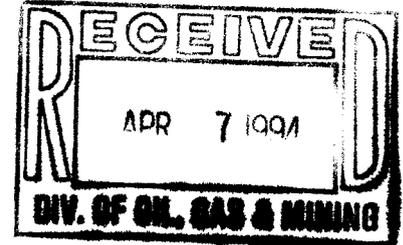
cc: Kathleen Welt - Mountain Coal Company
File



COAL MINING AND RECLAMATION OPERATIONS FOR 1993

(Must be submitted to the Division by April 15, 1994)

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203
(801) 538-5340



Permittee: MOUNTAIN COAL COMPANY
Mine Name: C.V. SPUR LOADOUT FACILITY
Mailing Address: P.O. BOX 591, SOMERSET, COLO. 81434
Company Representative: KATHLEEN G. WELT
Resident Agent: THE CORP. TRUST CO. 1209 ORANGE ST. WILMINGTON, DELAWARE
Permit Number: ACT/077/022 19801
MSHA ID Number: 42-01444
Date of Initial Permanent Program Permit: 09/24/81
Date of Permit Renewal: 09/12/91 (EXPIRES 08/07/94)
Quantity of Coal Mined (tonnage) 1993: 180,432 TONS (SHIPPED)

Attach Updated Mine Sequence Map(s) showing mine development through December 31, 1993.
(Same as Lease Royalty Payment Map and/or MSHA Progress Map)

All monitoring activities during the report period to be submitted with this report (including, but not limited to):

A. General

1. Discuss anomalies, missing data and monitoring changes made throughout the year.
2. Summarize any corrective actions and the results that may have occurred during the year.

B. Water Monitoring Data:
Groundwater Summary

1. Mine Discharge
 - a. Summarize the total annual discharge from mine water discharge points and breakdown on a monthly basis for each site.
 - b. Discuss the past five years of data comparing changes in discharge. Elements such as mining rate, location of faults or large in-mine flows during the year should be discussed.
 - c. Discuss trends and exceedence in water quality parameters. A correlation with flow could provide additional information.

2. **Springs**
 - a. Are there seasonal trends/or changes in water quality for each quarter. Stiff diagrams provide a good aid in this determination.
 - b. Provide an analysis of changes in quantity of flow. Discuss any significant changes or trends. An accumulation of long-term data is necessary for this discussion.
 3. **Surface Water**
 - a. Include (discuss or tabulate) comparisons of upstream and downstream water quality and quantity for monitoring sites for each quarter. Include tributary quantity and quality information. Compare with mine water discharge where applicable.
 - b. Discuss any subsidence occurring over tributaries and streams, and results from monitoring of subsided areas.
- C. **Summarized Water Monitoring Data**
1. List of monitoring points and their locations, based on UTM coordinates, and respective frequencies of monitoring (monthly, quarterly, etc.) as approved in the PAP;
 2. UPDES permit number, UPDES discharge points, and their locations based on UTM coordinates.
 3. Summary of findings based on water monitoring during 1993; and
 4. Submit water monitoring as DOS based files. Be specific about the format, submit data in one of the following formats only, i.e: Quattro Pro, Lotus, or ASCII.
- D. **Precipitation or Other Climatological Data (please submit as DOS based files: ASCII, Lotus, Quattro Pro, FoxPro, etc. -- Contact Ken Wyatt, if you have any questions).**
- E. **Subsidence Monitoring Report:**
1. Brief description of monitoring system (monuments or aerial surveys, how monitoring is done, how frequently monitoring is done);
 2. List of all monitoring points (if any) and their locations and amount of displacement of each;
 3. Map showing either monitoring points (if any) or a representation of subsidence which has occurred; and
 4. Any owners and/or occupants of surface property and structures above the underground workings who were or will be mailed notification six months prior to mining (R645-301-525.300).
 5. Discussion of any proposed mining sequence changes and how that may affect the area of monitoring for the following year.
- F. **Vegetation Data (test plots) or Revegetation Success Monitoring (includes interim and final):**
1. Test plot monitoring data or implementation;
 2. Quantitative results from interim or final seeding efforts;
 3. If quantitative monitoring was not required, then at minimum, a qualitative description of the interim or final vegetation; and
 4. Describe any seeding done on site during the current year.
- G. **Annual Impoundment Certification, (R645-301-514.312) which includes the following information:**
1. Any appearances of instability;
 2. Structural weakness or other hazardous conditions;
 3. Depth and elevation of any impounded waters;

4. Existing storage capacity;
5. Any existing or required monitoring procedures and instrumentation; and
6. Any other aspects of the structure affecting stability.

Suggested form enclosed

- H. Annual Overburden, Spoil, Refuse, Roof, Floor, and Mid-Seam Data. For Consistency and completeness, please submit data for this reporting requirement in the following manner:
 1. Location of sample site, sample interval, and sample matrix (if roof or floor, then include lithologic unit and if coal, then thickness of seam at sample site);
 2. Sampling technique employed in the field (i.e., grab sample, composite, depth segregated or specific procedure outlined in the permit by chapter and page) and preparation prior to analysis (i.e., sieved sample, ground sample, air dried, oven dried, etc.);
 3. Laboratory analysis report sheet which includes:
 - i. Sample time and date;
 - ii. Date and time of lab analysis; and
 - iii. Analytical method(s) employed and references. Include the soil/spoil: water ratio.
 4. Summary of findings based on monitoring.
- I. A current copy of the annual report of officers submitted to the Department of Commerce and any changes in the ownership and control information required under R645-301-110.
- J. Any Other Information Required to be Submitted as Specified in your Permit Application Package and Permit.

PERMIT



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

June 30, 1992

Mr. Dan Guy, Manager
Mountain Coal Company
P.O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Approval of Midterm Review, Mountain Coal Company, C.V. Spur Loadout Facility, ACT/007/022, Folder #3, Carbon County, Utah

The midterm for the C.V. Spur Loadout Facility is completed. Responses received June 25, 1992 have been reviewed and have been determined complete and technically adequate.

Thank you for your continued cooperation.

Sincerely,



Pamela Grubaugh-Littig
Permit Supervisor

jbe
007022.AMR

FEDERAL

PERMIT
ACT/007/022

September 12, 1991

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

This permit, ACT/007/022, is issued for the State of Utah by the Utah Division of Oil, Gas and Mining (Division) to:

Mountain Coal Company
P.O. Box 1378
Price, Utah 84501
(801) 637-5050

for the C.V. Spur Coal Processing and Loadout Facility. Mountain Coal Company is the owner of certain fee-owned parcels. A Surety Bond is filed with the Division in the amount of \$2,441,745, payable to the State of Utah, Division of Oil, Gas and Mining, and the Office of Surface Mining, Reclamation and Enforcement (OSM). The Division must receive a copy of this permit signed and dated by the permittee.

Sec. 1 STATUTES AND REGULATIONS - This permit is issued pursuant to the Utah Coal Mining and Reclamation Act of 1979, Utah Code Annotated (UCA) 40-10-1 et seq, hereafter referred to as the Act.

Sec. 2 PERMIT AREA - The permittee is authorized to conduct underground coal mining activities on the following described lands within the permit area at the C.V. Spur Coal Processing and Loadout Facility, situated in the State of Utah, Emery County, and located:

Township 15 South Range 10 East, Section 11, SLBM

W1/2 SW1/4 except 0.24 acres in the northwest corner, NE1/4 SW1/4
except East 100 ft., SE1/4 SW1/4, except East 100 ft.

This legal description is for the permit area of the C.V. Spur Coal Processing and Loadout Facility. The permittee is authorized to conduct underground coal mining activities and related surface activities on the foregoing described property subject to the conditions of all applicable conditions, laws and regulations.

- Sec. 3 COMPLIANCE** - The permittee will comply with the terms and conditions of the permit, all applicable performance standards and requirements of the State Program.
- Sec. 4 PERMIT TERM** - This permit becomes effective on September 12, 1991, and expires on August 7, 1994.
- Sec. 5 ASSIGNMENT OF PERMIT RIGHTS** - The permit rights may not be transferred, assigned or sold without the prior written approval of the Division Director. Transfer, assignment or sale of permit rights must be done in accordance with applicable regulations, including but not limited to 30 CFR 740.13{e} and R614-303-300.
- Sec. 6 RIGHT OF ENTRY** - The permittee shall allow the authorized representative of the Division, including but not limited to inspectors, and representatives of the Office of Surface Mining Reclamation and Enforcement (OSM), without advance notice or a search warrant, upon presentation of appropriate credentials, and without delay to:
- (a) have the rights of entry provided for in 30 CFR 840.12, R614-400-220, 30 CFR 842.13 and R614-400-110;
 - (b) be accompanied by private persons for the purpose of conducting an inspection in accordance with R614-400-100 and R614-400-200 when the inspection is in response to an alleged violation reported to the Division by the private person.
- Sec. 7 SCOPE OF OPERATIONS** - The permittee shall conduct underground coal mining activities only on those lands specifically designated as within the permit area on the maps submitted in the approved plan and approved for the term of the permit and which are subject to the performance bond.
- Sec. 8 ENVIRONMENTAL IMPACTS** - The permittee shall take all possible steps to minimize any adverse impact to the environment or public health and safety resulting from noncompliance with any term or condition of the permit, including, but not limited to:
- (a) Any accelerated or additional monitoring necessary to determine the nature and extent of noncompliance and the results of the noncompliance;
 - (b) immediate implementation of measures necessary to comply; and

- (c) warning, as soon as possible after learning of such noncompliance, any person whose health and safety is in imminent danger due to the noncompliance.

Sec. 9 CONDUCT OF OPERATIONS - The permittee shall conduct its operations:

- (a) in accordance with the terms of the permit to prevent significant, imminent environmental harm to the health and safety of the public; and
- (b) utilizing methods specified as conditions of the permit by the Division in approving alternative methods of compliance with the performance standards of the Act, the approved Utah State Program and the Federal Lands Program.

Sec. 10 EXISTING STRUCTURES - As applicable, the permittee will comply with R614-301 and R614-302 for compliance, modification, or abandonment of existing structures.

Sec. 11 RECLAMATION FEE PAYMENTS - The operator shall pay all reclamation fees required by 30 CFR Part 870 for coal produced under the permit, for sale, transfer or use.

Sec. 12 AUTHORIZED AGENT - The permittee shall provide the names, addresses and telephone numbers of persons responsible for operations under the permit to whom notices and orders are to be delivered.

Sec. 13 COMPLIANCE WITH OTHER LAWS - The permittee shall comply with the provisions of the Water Pollution Control Act (33 USC 1151 et seq,) and the Clean Air Act (42 USC 7401 et seq), UCA 26-11-1 et seq, and UCA 26-13-1 et seq.

Sec. 14 PERMIT RENEWAL - Upon expiration, this permit may be renewed for areas within the boundaries of the existing permit in accordance with the Act, the approved Utah State Program and the Federal Lands Program.

Sec. 15 CULTURAL RESOURCES - If during the course of mining operations, previously unidentified cultural resources are discovered, the permittee shall ensure that the site(s) is not disturbed and shall notify the Division. The Division, after coordination with OSM, shall inform the permittee of necessary actions required. The permittee shall implement the mitigation measures required by Division within the time frame specified by Division.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangert
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

August 7, 1989

Mr. Richard D. Pick, President
Mountain Coal Operations
Beaver Creek Coal Company
P. O. Box 1378
Price, Utah 84501

Dear Mr.  Pick:

Re: State Permit and Decision Package, Five-Year Permit
Renewal, Beaver Creek Coal Company, C. V. Spur Coal
Processing and Loadout Facility, ACT/007/022, Folder
#3, Carbon County, Utah

Enclosed are two State Permits and a Decision Package for the C. V. Spur Coal Processing and Loadout Facility Five-Year Permit Renewal. Please read the Stipulations in Attachment A of the State Permit, then sign both State Permits and return one to the Division.

Your staff's cooperation during the permitting process has been appreciated.

Best regards,


Dianne R. Nielson
Director

RVS/djh
Enclosure
cc: P. Rutledge, OSM-Denver
R. Hagen, OSMRE-Albq.
AT8/68

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

This permit, ACT/007/022, is issued for the state of Utah by the Utah Division of Oil, Gas and Mining (DOGM) to:

Beaver Creek Coal Company
P. O. Box 1378
Price, Utah 84501
(801) 637-5050

for the C.V. Spur Coal Processing and Loadout Facility. Beaver Creek Coal Company is the owner of certain fee-owned parcels. A performance bond is filed with the DOGM in the amount of \$2,441,745.00, payable to the state of Utah, Division of Oil, Gas and Mining and the Office of Surface Mining Reclamation and Enforcement (OSMRE). DOGM must receive a copy of this permit signed and dated by the permittee.

- Sec. 1 **STATUTES AND REGULATIONS** - This permit is issued pursuant to the Utah Coal Mining and Reclamation Act of 1979, Utah Code Annotated (UCA) 40-10-1 et seq, hereafter referred to as the Act.
- Sec. 2 **PERMIT AREA** - The permittee is authorized to conduct underground coal mining activities on the following described lands (as shown on the map appended as C.V. Spur Coal Processing and Loadout Facility, Attachment B) within the permit area at the C. V. Spur Coal Processing and Loadout Facility, situated in the state of Utah, Carbon County, and located:

Township 15 South, Range 10 East, Section 11, SLBM

W1/2 SW1/4 except 0.24 acres in the northwest corner, NE1/4 SW1/4 except East 100 ft., SE1/4 SW1/4, except East 100 ft.

This legal description is for the permit area (as shown on Attachment B) of the C.V. Spur Coal Processing and Loadout Facility. The permittee is authorized to conduct underground coal mining operations and related surface activities on the foregoing described property subject to the conditions of applicable conditions, laws and regulations.

- Sec. 3 **PERMIT TERM** - This permit becomes effective on August 7, 1989 and expires on August 7, 1994.
- Sec. 4 **ASSIGNMENT OF PERMIT RIGHTS** - The permit rights may not be transferred, assigned or sold without the approval of the Director, DOGM. Transfer, assignment, or sale of permit rights must be done in accordance with applicable regulations, including but not limited to 30 CFR 740.13(e) and UMC 788.17-.19.
- Sec. 5 **RIGHT OF ENTRY** - The permittee shall allow the authorized representative of the DOGM, including but not limited to inspectors, and representatives of OSMRE, without advance notice or a search warrant, upon presentation of appropriate credentials, and without delay to:
- A. have the rights of entry provided for in 30 CFR 840.12, UMC 840.12, 30 CFR 842.13 and UMC 842.13; and
 - B. be accompanied by private persons for the purpose of conducting an inspection in accordance with UMC 842.12 and 30 CFR 842, when the inspection is in response to an alleged violation reported by the private person.
- Sec. 6 **SCOPE OF OPERATIONS** - The permittee shall conduct underground coal mining activities only on those lands specifically designated as within the permit area on the maps submitted in the mining and reclamation plan and permit application and approved for the term of the permit and which are subject to the performance bond.
- Sec. 7 **ENVIRONMENTAL IMPACTS** - The permittee shall minimize any adverse impact to the environment or public health and safety through but not limited to:
- A. accelerated monitoring to determine the nature and extent of noncompliance and the results of the noncompliance;
 - B. immediate implementation of measures necessary to comply; and
 - C. warning, as soon as possible after learning of such noncompliance, any person whose health and safety is in imminent danger due to the noncompliance.

- Sec. 8 **DISPOSAL OF POLLUTANTS** - The permittee shall dispose of solids, sludge, filter backwash or pollutants in the course of treatment or control of waters or emissions to the air in the manner required by the approved Utah State Program and the Federal Lands Program which prevents violation of any applicable state or federal law.
- Sec. 9 **CONDUCT OF OPERATIONS** - The permittee shall conduct its operations:
- A. in accordance with the terms of the permit to prevent significant, imminent environmental harm to the health and safety of the public; and
 - B. utilizing methods specified as conditions of the permit by DOGM in approving alternative methods of compliance with the performance standards of the Act, the approved Utah State Program and the Federal Lands Program.
- Sec. 10 **AUTHORIZED AGENT** - The permittee shall provide the names, addresses and telephone numbers of persons responsible for operations under the permit to whom notices and orders are to be delivered.
- Sec. 11 **COMPLIANCE WITH OTHER LAWS** - The permittee shall comply with the provisions of the Water Pollution Control Act (33 USC 1151 et seq,) and the Clean Air Act (42 USC 7401 et seq), UCA 26-11-1 et seq, and UCA 26-13-1 et seq.
- Sec. 12 **PERMIT RENEWAL** - Upon expiration, this permit may be renewed for areas within the boundaries of the existing permit in accordance with the Act and the approved Utah State Program and the Federal Lands Program.
- Sec. 13 **CULTURAL RESOURCES** - If during the course of mining operations, previously unidentified cultural resources are discovered, the permittee shall ensure that the site(s) is not disturbed and shall notify DOGM. DOGM, after coordination with OSMRE, shall inform the permittee of necessary actions required. The permittee shall implement the mitigation measures required by DOGM within the time frame specified by DOGM.
- Sec. 14 **APPEALS** - The permittee shall have the right to appeal as provided for under UMC 787.
- Sec. 15 **SPECIAL CONDITIONS** - The permittee shall comply with the special conditions appended hereto as Attachment A.

The above conditions (Secs. 1-15) are also imposed upon the permittee's agents and employees. The failure or refusal of any of these persons to comply with these conditions shall be deemed a failure of the permittee to comply with the terms of this permit and the lease. The permittee shall require his agents, contractors and subcontractors involved in activities concerning this permit to include these conditions in the contracts between and among them. These conditions may be revised or amended, in writing, by the mutual consent of DOGM and the permittee at any time to adjust to changed conditions or to correct an oversight. DOGM may amend these conditions at any time without the consent of the permittee in order to make them consistent with any new federal or state statutes and any new regulations.

THE STATE OF UTAH

By: *Dianne R. Nielson*
Date: 8-7-89

I certify that I have read, understand and accept the requirements of this permit and any special conditions attached.

Richard J. Pelt
Authorized Representative of
the Permittee
Date: 8-7-89

APPROVED AS TO FORM:
By: *David Christensen*
Assistant Attorney General
Date: 8/7/89

Attachment A

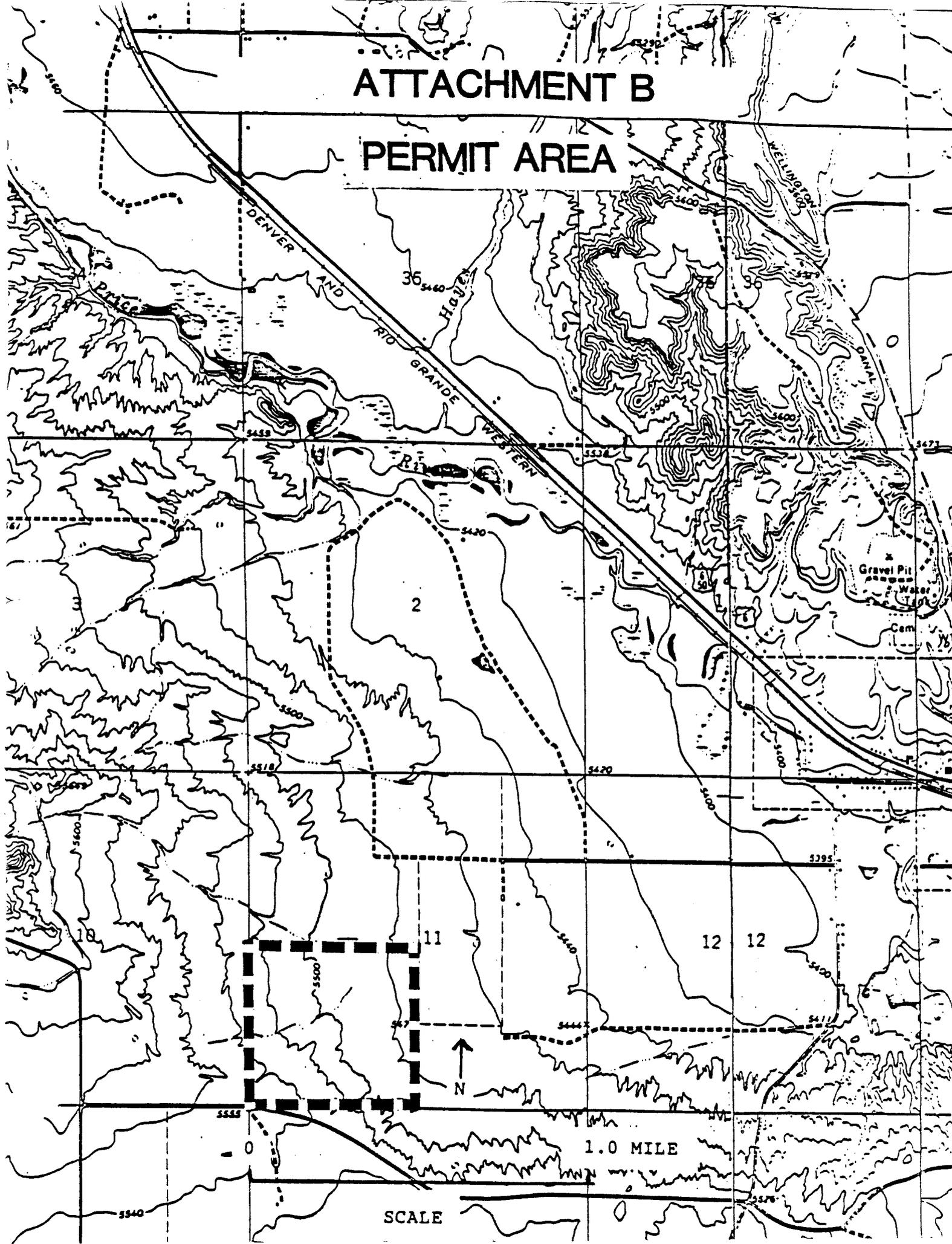
**Utah Division of Oil, Gas and Mining
Five-Year Permit Renewal
C.V. Spur Coal Processing and Loadout Facility
ACT/007/022
August 7, 1989**

Stipulation UMC 817.23-(HS)-(1)

1. Within 30 days of permit approval, the applicant must submit an as-built survey of the soil stockpiles. This survey must include the volume of topsoil stored, maximum and minimum heights, slopes, and all other pertinent dimensions.

ATTACHMENT B

PERMIT AREA



SCALE

1.0 MILE

AMENDMENTS



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
 Governor

Ted Stewart
 Executive Director

James W. Carter
 Division Director

866 West North Temple
 8 Trial Center, Suite 380
 Salt Lake City, Utah 84120-1203
 801-538-8846
 801-538-8846 (Fax)
 801-538-8318 (TDD)

July 18, 1993

Ms. Kathleen G. Welt
 Environmental Supervisor
 Mountain Coal Company
 P.O. Box 591
 Somerset, Colorado 81434

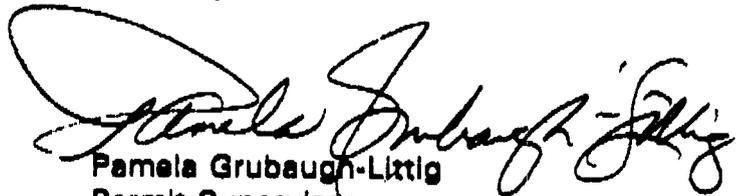
Dear Ms. Welt:

Re: BTCA Area 5 Amendment, Mountain Coal Company, C.V. Spur,
ACT/007/022-93B, Folder #3, Carbon County, Utah

The above-noted amendment submitted July 2, 1993 is conditionally approved with the condition that the permittee commit to monitoring water quality as discharged through the silt fence. Please submit this commitment by August 2, 1993.

If you have any questions, please call me. _

Sincerely,



Pamela Grubaugh-Littig
 Permit Supervisor

Post-it® brand fax transmittal memo 7871 1 of pages 1

To	Don Gray	From	Kathal Welt
Cc	Blackhawk Eng	To	MCC
Dept.	Call me to discuss	Phone #	929 2256
			-MK-





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 5, 1993

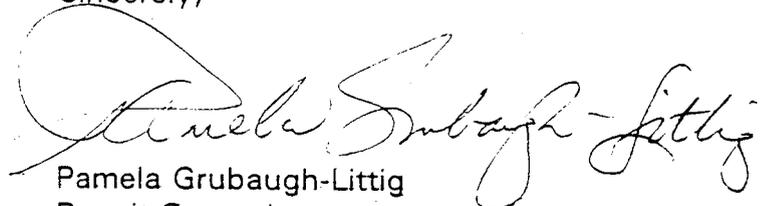
Ms. Kathleen G. Welt
Environmental Supervisor
Mountain Coal Company
P.O. Box 591
Somerset, Colorado 81434

Dear Ms. Welt:

Re: BTCA Area 5, Mountain Coal Company, C.V. Spur Coal Processing and Loadout Facility, ACT/007/022-93B, Folder #3, Carbon County, Utah

The submittal received July 30, 1993 with the commitment requested in the July 18, 1993 letter is approved.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

pgl



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

cc: D. Guy

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

October 21, 1993

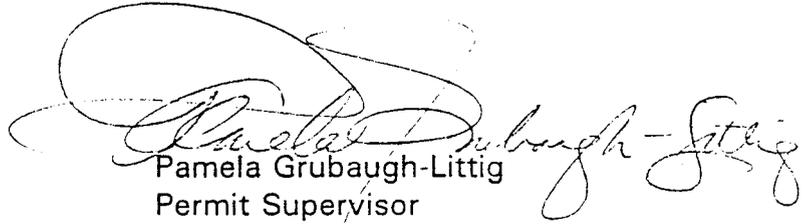
Ms. Kathleen G. Welt
Environmental Supervisor
Mountain Coal Company
P.O. Box 591
Somerset, Colorado 81434

Dear Ms. Welt:

Re: Realignment of Diversion DD-1, Mountain Coal Company, C.V. Spur coal Processing and Loadout Facility, ACT/007/022-93D, Folder #3, Carbon County, Utah

The above-noted amendment is approved.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

pgl



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Third Center, Suite 350
Salt Lake City, Utah 84180-1200
801-538-5340
801-388-3940 (Fax)
801-538-5318 (TDD)

November 19, 1993

Ms. Kathleen G. Welt
Environmental Supervisor
Mountain Coal Company
P.O. Box 591
Somerset, Colorado 81434

Dear Ms. Welt:

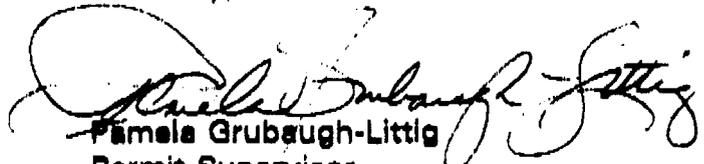
Re: Removal of Jensen Trucking Property from Permit Area, Mountain Coal Company, C.V. Spur Coal Processing and Loadout Facility, ACT/007/022-93A, Folder #3, Carbon County, Utah

Information relative to this amendment has been reviewed. The Jensen Trucking property was originally used by Utah Power and Light Company as a coal staging and loading area. The property was transferred to General Exploration Company (GEX), the permittee's predecessor, on July 29, 1977. This was included in the submittal as Appendix 4-1, the actual transfer agreement.

In 1985, the permittee sold the area to Kevin and Lois Jensen. Between 1977 and 1985, the property in questions, though part of the overall permit area, was not used in the permittee's operation. Since 1985, the area has been used only by Jensen Trucking. The area has not been used post-SMCRA for any kind of coal mining activities. The has mistakenly been retained as part of the permit area simply because it was part of the original land purchase.

Therefore, the amendment is approved and the Jensen property may be deleted from the C.V. Spur permit area.

Sincerely,


Pamela Grubaugh-Little
Permit Supervisor

cc: Bill Malencik, PFO





State of Uta

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINERALS

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

365 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84100-1209
801-538-5840
801-538-5840 (Fax)
801-538-5319 (TDD)

Post-It™ brand fax transmittal memo 7871		# of pages >	1
To	Don Gunn	From	Kathy Welt
Co.	Blackhawk Eng	Co.	MCCO
Dept.		Phone #	303 929 2256
Fax #	801 637 2431	Fax #	

December 15, 1993

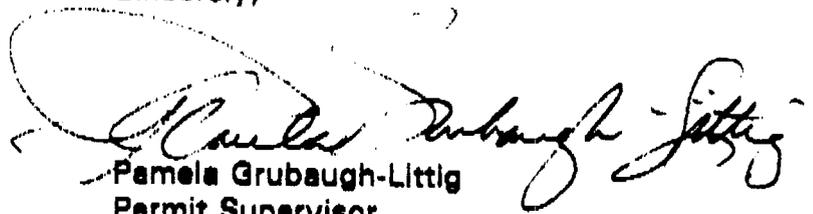
Ms. Kathleen G. Welt
Environmental Supervisor
Mountain Coal Company
P.O. Box 591
Somerset, Colorado 81434

Dear Ms. Welt:

Re: Installation of Rock Gabions in Ditch CD-8, Mountain Coal Company, C.V. Spur Coal Processing and Loadout facility, ACT/007/022-93E, Folder #3, Carbon County, Utah

The Division erroneously sent a letter on December 2, 1993 stating that the above-noted amendment was determined complete. Unfortunately, this letter was wrong and the amendment is not complete and must be denied. No design specification or references to designs in the MRP were provided. Information based on expected flows in this diversion must also be included. Please resubmit the amendment.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor



OTHER PERMITS

Permit No. **UTG040000**
Industrial

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM
(UPDES)

GENERAL PERMIT FOR COAL MINING

In compliance with provisions of the *Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended* (the "Act"),

Mountain Coal Company Castle Valley Spur located approximately 6 miles South of Price, Utah as identified in the Notice of Intent, application UTG040005 is authorized to discharge at outfall located at latitude 39°32'08" and longitude 110°46'03"

to an unnamed ditch tributary to the Price River

in accordance with discharge point(s), effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on August 1, 1993.

This general permit and the authorization to discharge shall expire at midnight, April 30, 1998.

Signed this 22th day of July, 1993.



Authorized Permitting Official
Executive Secretary
Utah Water Quality Board

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I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Definitions.

1. The "30-day (and monthly) average" is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.
2. The "7-day (and weekly) average" is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains the Saturday.
3. "Daily Maximum" ("Daily Max.") is the maximum value allowable in any single sample or instantaneous measurement.
4. "Composite samples" shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the composite sample period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:
 - a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;
 - b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
 - c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,
 - d. Continuous collection of sample, with sample collection rate proportional to flow rate.
5. A "grab" sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.
6. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
7. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

8. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
9. "Executive Secretary" means Executive Secretary of the Utah Water Quality Board.
10. "EPA" means the United States Environmental Protection Agency.
11. "Act" means the "*Utah Water Quality Act*".
12. "Best Management Practices" ("*BMPs*") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. *BMPs* also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
13. "CWA" means *Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.
14. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged.
15. "Significant spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under *Section 311 of the Clean Water Act* (see *40 CFR 110.10* and *40 CFR 117.21*) or *Section 102 of CERCLA* (see *40 CFR 302.4*).
16. "Storm water" means storm water runoff, snow melt runoff, and surface runoff and drainage.
17. "Waste pile" means any noncontainerized accumulation of solid, nonflowing waste that is used for treatment or storage.
18. "10-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable reoccurrence interval of once in 10 years. This information is available in *Weather Bureau Technical Paper No. 40*, May 1961 and *NOAA Atlas 2*, 1973 for the 11 Western States, and may be obtained from the National Climatic Center of the Environmental Data Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.
19. The term "coal preparation plant" means a facility where coal is crushed, screened, sized, cleaned, dried, or otherwise prepared and loaded for transit to a consuming facility.
20. The term "coal preparation plant associated areas" means the coal preparation plant yards, immediate access roads, coal refuse piles, and coal storage piles and facilities.
21. "Alkaline mine drainage" means mine drainage which before any treatment has a pH equal to or greater than 6.0 and total iron concentration less than 10 mg/l.

22. The term "settleable solids" is that matter measured by the volumetric method specified below:

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

B. Criteria for Inclusion in the General Permit for Coal Mining

This General permit shall apply only to the discharge of treated wastewater from:

Coal mining operations either new or existing in Utah which include or will include in part or in a whole alkaline mine water drainage, storm water runoff from coal preparation plant associated areas, active mining areas, and post mining areas until the performance bond is released. The total amount of total dissolved solids discharged from all mine water and decant operations is limited to one ton per day.

C. Notice of Intent for a General Permit for Coal Mining

Any facility which desires a general permit for coal mining and meets the requirements of Part I.B. can be issued a general permit by submitting a notice of intent (NOI) to the Division of Water Quality and EPA at the addresses listed on page 10 of this permit.

The NOI shall include:

- a. A completed Environmental Protection Agency Application (EPA Form 3510-1) or equivalent information.
- b. Location and identification number (such as 001, 002, etc.) of each existing discharge and/or proposed discharge point(s). This includes the latitude and longitude to the nearest 15 seconds and the name of the receiving water(s).
- c. A description of the source of the wastewater for each discharge point.
- d. A description of the treatment given or proposed for the wastewater at each discharge point and if necessary a justification of why no treatment is required.
- e. Flow characteristics for each discharge point such as whether flow is or will be continuous or intermittent and indicate projected and/or actual average and maximum flows in gpd.
- f. Data for each discharge point for the following parameters:
 - 1) Biochemical oxygen demand (BOD₅)
 - 2) Chemical oxygen demand (COD)
 - 3) Total organic carbon (TOC)
 - 4) Total suspended solids (TSS)
 - 5) Flow
 - 6) Ammonia (as N)
 - 7) Oil and grease

- 8) Temperature
- 9) pH
- 10) Total dissolved solids (TDS)
- 11) Total iron and metals, cyanide, phenols located in Table III UAC R317-8-3.12
- 12) Date and time of sampling for each parameter
- 13) Date and time of analysis for each parameter
- 14) Utah certified laboratory which has completed the analysis for each parameter

If no data is available, indicate why the data is not available.
The Executive Secretary may waive the reporting requirements for any of these pollutants and parameters if the applicant submits a request for such a waiver before or with the NOI which demonstrates that information adequate to support issuance of the permit can be obtained through less stringent reporting requirements.

- g. For each discharge point the presence or absence of any toxic and/or priority pollutants as listed by EPA in *40 CFR Part 403*.
- h. Best management practice plan or sediment runoff control plan approved by the Division of Oil, Gas and Mining.

D. Description of Discharge Point(s).

The authorization to discharge provided under this permit is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under a UPDES permit is a violation of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

Outfall Number

Location of Discharge Points

001

Sediment pond outfall to ditch

E. Narrative Standard.

It shall be unlawful, and a violation of this permit, for the permittee to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste, or conditions which produce undesirable aquatic life or which produces objectionable tastes in edible aquatic organisms; or concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures.

F. Specific Limitations and Self-monitoring Requirements.

1. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from Outfalls 001 and 002. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Discharge Limitations a/			Monitoring Requirements	
	Average 30-Day	7-Day	Daily Maximum	Measurement Frequency	Sample Type
Flow, gpd	NA	NA	NA	Monthly	Measured <u>b/</u>
Oil & Grease, mg/L	NA	NA	10	Monthly	Grab
Total Suspended Solids, mg/L	25	35	70	Monthly	Grab <u>e/</u>
Total Iron, mg/l	NA	NA	1.0 <u>c/</u>	Monthly	Grab <u>e/</u>
Total Dissolved Solids lbs/day	NA	NA	<u>d/</u>	Monthly	Grab <u>e/</u>

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

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

There shall be no discharge of sanitary wastes or any process water from coal preparation plants.

N.A. - Not Applicable.

- a/ See Definitions, *Part IA* for definition of terms.
 - b/ For intermittent discharge, the duration of the discharge shall be reported along with the flow.
 - c/ Values up to 2 mg/l may be approved where the permittee provides sufficient information that water quality standards will not be violated.
 - d/ The total amount of total dissolved solids (TDS) discharged from all mine water and decant operations is limited to one ton (2000 pounds) per day.
 - e/ These samples may also be a composite sample.
2. Samples taken in compliance with the monitoring requirements specified above shall be taken from the effluent before mixing with any receiving water.

3. Any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period less than or equal to the 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) at all surface runoff pond (outfalls) may comply with the following limitation instead of the total suspended solids limitations contained in Part I.F.1:

Effluent Characteristics

Daily Maximum

Settleable Solids

0.5 mL/L

In addition to the monitoring requirements specified under Part I.F.1, all effluent samples collected during storm water discharge events shall also be analyzed for settleable solids. Such analyses shall be conducted on either grab or composite samples.

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

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units. However, as stated under Part I.F.3, all effluent samples collected at all surface runoff pond outfalls during storm water discharge events shall be analyzed for settleable solids and the parameters identified under Part I.F.1.

5. The operator shall have the burden of proof that the discharge or increase in discharge was caused by the applicable precipitation event described in Parts I.F.3. and F.4. The alternate limitation in Parts I.F.4. and F.5. shall not apply to treatment systems that treat underground mine water only.
6. Best Management Practices.
- a. The company shall implement and maintain best management practices for the control of road salt storage for areas discharging to waters of the State. This shall include enclosure or coverage to prevent exposure to precipitation, except exposure resulting from adding or removing materials from the pile. Dischargers shall demonstrate compliance with the enclosure provision as expeditiously as practicable, but in no event later than October 1, 1995.
 - b. The facility must minimize the discharge of salt by using the largest practicable amount of saline water for process and dust control. After April 30, 1994 there shall be no use of gypsum for rock dusting unless the permittee provides sufficient information to the Executive Secretary such that approval is granted based upon the Colorado River Basin Salinity Control Forum Policies and the fact that it will not significantly increase total dissolved solids concentrations.
 - c. Sediment and Erosion Control. Within six months of permit issuance, the permittee shall develop a stormwater pollution prevention plan which identifies areas which, due to topography, road construction with waste materials, other activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and stabilization measures to limit erosion. (The general permit for storm water discharge associated with industrial activity contains information for developing a satisfactory plan).

- d. Management of Runoff. The stormwater pollution prevention plan shall be implemented as soon as practical but no later than one year after permit issuance. Appropriate measures for small areas may include: silt fences, sediment traps, vegetative swales and practices, reuse of collected storm water (such as for a process or as an irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration deicers, and wet detention/retention devices.
- e. Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the stormwater pollution prevention plan, but in no case less than once a year. Such evaluations shall provide:
- (1) Areas contributing to a storm water discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed.
 - (2) Based on the results of the inspection, the description of potential pollutant sources identified in the plan and pollution prevention measures and controls identified in the plan shall be revised as appropriate within two weeks of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than twelve weeks after the inspection.
 - (3) A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken shall be made and retained as part of the storm water pollution prevention plan for at least one year after coverage under this permit terminates. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with *Part IV.G Signatory Requirements* of this permit.
 - (4) Where annual site inspections are shown in the plan to be impractical for inactive mining sites due to the remote location and inaccessibility of the site, site inspections required under this part shall be conducted at appropriate intervals specified in the plan, but, in no case less than once in three years.
- f. Consistency with other plans. Plans may reflect requirements for *Spill Prevention Control and Countermeasure ("SPCC")* plans developed for the facility under *Section 311* of the *CWA* or *Best Management Practices ("BMP")* otherwise required by this permit for the facility as long as such requirement is incorporated into the plan.

II. MONITORING, RECORDING AND REPORTING REQUIREMENTS

- A. Representative Sampling. Samples taken in compliance with the monitoring requirements established under *Part I* shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Sludge samples shall be collected at a location representative of the quality of sludge immediately prior to the use-disposal practice.
- B. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under *Utah Administrative Code ("UAC") R317-2-10*, unless other test procedures have been specified in this permit.
- C. Penalties for Tampering. The *Act* provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.
- D. Reporting of Monitoring Results. Monitoring results obtained during the previous month shall be summarized and reported monthly on a Discharge Monitoring Report Form (EPA No. 3320-1), post-marked no later than the 28th day of the month following the completed reporting period. The first report is due on August 28, 1993. If no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part IV.G)*, and submitted to the Director, Division of Water Quality and to EPA at the following addresses:

original to: Department of Environmental Quality
Division of Water Quality
288 North 1460 West
PO Box 144870
Salt Lake City, Utah 84114-4870

copy to: United States Environmental Protection Agency Region VIII
Denver Place
999 18th Street, Suite 500
Denver, Colorado 80202-2466
Attention: Water Management Division
Compliance Branch (8WM-C)

- E. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.
- F. Additional Monitoring by the Permittee. If the permittee monitors any parameter more frequently than required by this permit, using test procedures approved under *UAC R317-2-10* or as otherwise specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated. Only those parameters required by the permit need to be reported.

G. Records Contents. Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The individual(s) who performed the sampling or measurements;
3. The date(s) and time(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and,
6. The results of such analyses.

H. Retention of Records. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Executive Secretary at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location.

I. Twenty-four Hour Notice of Noncompliance Reporting.

1. The permittee shall (orally) report any noncompliance which may seriously endanger health or environment as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of circumstances. The report shall be made to the Division of Water Quality, (801) 538-6146, or 24 hour answering service (801) 536-4123.
2. The following occurrences of noncompliance shall be reported by telephone (801) 536-4123 as soon as possible but no later than 24 hours from the time the permittee becomes aware of the circumstances:
 - a. Any noncompliance which may endanger health or the environment;
 - b. Any unanticipated bypass which exceeds any effluent limitation in the permit (See *Part III.G, Bypass of Treatment Facilities.*);
 - c. Any upset which exceeds any effluent limitation in the permit (See *Part III.H, Upset Conditions.*); or,
 - d. Violation of a maximum daily discharge limitation for any of the pollutants listed in the permit.
3. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times;
 - c. The estimated time noncompliance is expected to continue if it has not been corrected; and,

- d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of noncompliance.
 - e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.
4. The Executive Secretary may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Division of Water Quality, (801) 538-6146.
 5. Reports shall be submitted to the addresses in *Part II.D, Reporting of Monitoring Results*.
- J. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for *Part II.D* are submitted. The reports shall contain the information listed in *Part II.I.3*.
- K. Inspection and Entry. The permittee shall allow the Executive Secretary, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
 4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location.

III. COMPLIANCE RESPONSIBILITIES

- A. Duty to Comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action: for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give advance notice to the Executive Secretary of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- B. Penalties for Violations of Permit Conditions. The Act provides that any person who violates a permit condition implementing provisions of the Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions of the Act is subject to a fine not exceeding \$25,000 per day of violation; Any person convicted under *UCA 19-5-115(2)* a second time shall be punished by a fine not exceeding \$50,000 per day. Except as provided at *Part III.G, Bypass of Treatment Facilities* and *Part III.H, Upset Conditions*, nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.
- C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- E. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- F. Removed Substances. Collected screening, grit, solids, sludges, or other pollutants removed in the course of treatment shall be buried or disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.
- G. Bypass of Treatment Facilities.
1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2 and 3 of this section. Return of removed substances, as described in *Part III.F*, to the discharge stream shall not be considered a bypass under the provisions of this paragraph.
 2. Notice:
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass.

- b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass required under *Part II.I, Twenty-four Hour Reporting*.
3. Prohibition of bypass.
 - a. Bypass is prohibited and the Executive Secretary may take enforcement action against a permittee for a bypass, unless:
 - (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage ;
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
 - (3) The permittee submitted notices as required under paragraph 2 of this section.
 - b. The Executive Secretary may approve an anticipated bypass, after considering its adverse effects, if the Executive Secretary determines that it will meet the three conditions listed above in paragraph 3.a of this section.

II. Upset Conditions.

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph 2. of this section are met. Executive Secretary's administrative determination regarding a claim of upset cannot be judiciously challenged by the permittee until such time as an action is initiated for noncompliance.
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required under *Part II.I, Twenty-four Hour Notice of Noncompliance Reporting*; and,
 - d. The permittee complied with any remedial measures required under *Part III.D, Duty to Mitigate*.
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

- I. Toxic Pollutants. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of *The Water Quality Act of 1987* for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- J. Changes in Discharge of Toxic Substances. Notification shall be provided to the Executive Secretary as soon as the permittee knows of, or has reason to believe:
1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - a. One hundred micrograms per liter (100 ug/L);
 - b. Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(7)* or (10); or,
 - d. The level established by the Executive Secretary in accordance with *UAC R317-8-4.2(6)*.
 2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - a. Five hundred micrograms per liter (500 ug/L);
 - b. One milligram per liter (1 mg/L) for antimony;
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(9)*; or,
 - d. The level established by the Executive Secretary in accordance with *UAC R317-8-4.2(6)*.
- K. Industrial Pretreatment. Any wastewaters discharged to the sanitary sewer, either as a direct discharge or as a hauled waste, are subject to Federal, State and local pretreatment regulations. Pursuant to Section 307 of *The Water Quality Act of 1987*, the permittee shall comply with all applicable federal General Pretreatment Regulations promulgated at *40 CFR 403*, the State Pretreatment Requirements at *UAC R317-8-8*, and any specific local discharge limitations developed by the Publicly Owned Treatment Works (POTW) accepting the wastewaters.

In addition, in accordance with *40 CFR 403.12(p)(1)*, the permittee must notify the POTW, the EPA Regional Waste Management Director, and the State hazardous waste authorities, in writing, if they discharge any substance into a POTW which if otherwise disposed of would be considered a hazardous waste under *40 CFR 261*. This notification must include the name of the hazardous waste, the EPA hazardous waste number, and the type of discharge (continuous or batch).

IV. GENERAL REQUIREMENTS

- A. Planned Changes. The permittee shall give notice to the Executive Secretary as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit. In addition, if there are any planned substantial changes to the permittee's existing sludge facilities or their manner of operation or to current sludge management practices of storage and disposal, the permittee shall give notice to the Executive Secretary of any planned changes at least 30 days prior to their implementation.
- B. Anticipated Noncompliance. The permittee shall give advance notice to the Executive Secretary of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- C. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- D. Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. The application shall be submitted at least 60 days before the expiration date of this permit. The application shall be submitted at least 180 days before the expiration date if an individual permit is necessary.
- E. Duty to Provide Information. The permittee shall furnish to the Executive Secretary, within a reasonable time, any information which the Executive Secretary may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Executive Secretary, upon request, copies of records required to be kept by this permit.
- F. Other Information. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Executive Secretary, it shall promptly submit such facts or information.
- G. Signatory Requirements. All applications, reports or information submitted to the Executive Secretary shall be signed and certified.
1. All permit applications shall be signed by either a principal executive officer or ranking elected official.
 2. All reports required by the permit and other information requested by the Executive Secretary shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Executive Secretary, and,
 - b. The authorization specifies either an individual or a position having responsibility for overall operation of the regulated facility, such as the position of plant manager,

superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

3. Changes to authorization. If an authorization under paragraph *IV.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph *IV.G.2* must be submitted to the Executive Secretary prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- H. Penalties for Falsification of Reports. The Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000.00 per violation, or by imprisonment for not more than six months per violation, or by both.
- I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Executive Secretary. As required by the Act, permit applications, permits and effluent data shall not be considered confidential.
- J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the permittee of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Act.
- K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

- M. Transfers. This permit may be automatically transferred to a new permittee if:
1. The current permittee notifies the Executive Secretary at least 20 days in advance of the proposed transfer date;
 2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,
 3. The Executive Secretary does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.
- N. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by *UCA 19-5-117*.
- O. Water Quality-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:
1. Water Quality Standards for the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
 2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.
 3. A revision to the current Water Quality Management Plan is approved and adopted which calls for different effluent limitations than contained in this permit.
- P. Toxicity Limitation-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include whole effluent toxicity (WET) testing, a WET limitation, a compliance schedule, a compliance date, additional or modified numerical limitations, or any other conditions related to the control of toxicants if toxicity is detected during the life of this permit.
- Q. Storm Water-Reopener Provision. At any time during the duration (life) of this permit, this permit may be reopened and modified (following proper administrative procedures) as per *UAC R317.8*, to include, any applicable storm water provisions and requirements, a storm water pollution prevention plan, a compliance schedule, a compliance date, monitoring and/or reporting requirements, or any other conditions related to the control of storm water discharges to "waters-of-State".

F:Gen-Coal.per

BOND

Revised August 1988
RECLAMATION AGREEMENT

Permit Number ACT/007/022
Date Permit Issued Aug. 7, 1989
Effective Date of Agreement Aug. 7, 1989

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

COAL RECLAMATION AGREEMENT

--oo00oo--

For the purposes of this RECLAMATION AGREEMENT the terms below are defined as follows:

"PERMIT" (Mine Permit No.) ACT/007/022 (County) Carbon

"MINE" (Name of Mine) C.V. Spur Processing & Loadout Facility

"OPERATOR" (Company or Name) Beaver Creek Coal Co.
(Address) P.O. Box 1378
Price, Utah 84501

"OPERATOR'S REGISTERED AGENT" (Name) C.T. Corporation System
(Address) 175 South Main St.
(Phone) Salt Lake City, Utah 84111

"COMPANY OFFICERS": R.D. Pick, President
D.R. Meadors, Operations Manager

"BOND TYPE" (Form of Bond) Surety

"BOND" (Bond Amount-Dollars) \$2,441,745
(Year-Dollars) 1994

INSTITUTION United Pacific Insurance Company
POLICY OR ACCOUNT NUMBER U-629894

"LIABILITY INSURANCE" (Exp.) Life of Permit or Renewal
(Insurance Company) Insurance Company of North America

"STATE": Utah (Department of Natural Resources)

"DIVISION": Division of Oil, Gas and Mining

"DIVISION DIRECTOR" Dianne R. Nielson

EXHIBITS:

		Revision Dates		
"SURFACE DISTURBANCE"	Exhibit "A"	_____	_____	_____
"BONDING AGREEMENT"	Exhibit "B"	_____	_____	_____
"LIABILITY INSURANCE"	Exhibit "C"	_____	_____	_____
"STIPULATION TO CHANGE BOND"	Exhibit "D"	_____	_____	_____

RECLAMATION AGREEMENT

This RECLAMATION AGREEMENT (hereinafter referred to as "Agreement") is entered into by the Operator.

WHEREAS, on August 7, 1989, the Division approved the Permit Application Package, hereinafter "PAP", submitted by Beaver Creek Coal Co., hereinafter "Operator"; and

WHEREAS, prior to issuance of a permit to conduct mining and reclamation operations on the property described in the PAP, hereinafter "Property", the Operator is obligated by Title 40-10-1, et seq., Utah Code Annotated (1953, as amended), hereinafter "Act", to file with the Division a bond ensuring the performance of the reclamation obligations in the manner and by the standards set forth in the PAP, the Act, and the State of Utah Division of Oil, Gas and Mining Rules pertaining to Coal Mining and Reclamation Activities, hereinafter "Rules"; and

WHEREAS, the Operator is ready and willing to file the bond in the amount and in a form acceptable to the Division and to perform all obligations imposed by the Division relating to the reclamation of the Property; and

WHEREAS, the Division is ready and willing to issue the subject a mining and reclamation permit upon acceptance and approval of the bond.

NOW, THEREFORE, the Division and the Operator agree as follows:

1. The provisions of the Act and the Rules are incorporated by reference herein and hereby made a part of this Agreement. Provisions of the Act or Rules shall supercede conflicting provisions of this Agreement.

RECLAMATION AGREEMENT

2. The Operator shall provide a legal description of the property including the number of acres approved by the Division to be disturbed by surface mining and reclamation operations during the permit period. The description is attached as Exhibit "A", and is incorporated by reference and shall be referred to as the "Surface Disturbance".
3. The Operator shall provide a bond to the Division in the form and amount acceptable to the Division ensuring the performance of the reclamation obligations in the manner and by the standards set forth in the PAP, the Act and the Rules. Said bond is attached as Exhibit "B" and is incorporated by reference.
4. The Operator shall maintain in full force and effect the public liability insurance policy submitted as part of the permit application. The Division shall be listed as an additional insured on said policy.
5. In the event that the Surface Disturbance is increased through expansion of the coal mining and reclamation operations or decreased through partial reclamation, the Division shall adjust the bond as appropriate.
6. The Operator does hereby jointly and severally agree to indemnify and hold harmless the State of Utah and the Division from any claim, demand, liability, cost, charge, or suit initiated by a third party as a result of the Operator or Operator's agent or employees failure to abide by the terms and conditions of the approved PAP and this Agreement.

RECLAMATION AGREEMENT

7. The terms and conditions of this Agreement are non-cancellable until such time as the Operator has satisfactorily, as determined by the Division, reclaimed the Surface Disturbance in accordance with the approved PAP, the Act, and the Rules. Notwithstanding the above, the Division may direct, or the Operator may request and the Division may approve, a modification to this Agreement.
8. The Operator may, at any time, submit a request to the Division to substitute the bonding method. The Division may approve the substitution if the bond meets the requirements of the Act and the Rules, but no bond shall be released until the Division has approved and accepted the replacement bond.
9. Any revision in the Surface Disturbance, the bond amount, the bond type, the liability insurance amount coverage, and/or the liability insurance company, or other revisions affecting the terms and conditions of this Agreement shall be submitted on the form entitled "Stipulation to Revise Reclamation Agreement" and shall be attached hereto as Exhibit "D".
10. This Agreement shall be governed and construed in accordance with the laws of the State. The Operator shall be liable for all costs required to comply with this agreement, including any attorney fees.
11. Any breach of the provisions of this Agreement, the Act, the Rules, or the PAP may, at the discretion of the Division, result in an order to cease coal mining and reclamation operations, revocation of the Operator's permit to conduct coal mining and reclamation operations and/or forfeiture of the bond.

RECLAMATION AGREEMENT

- 12. In the event of forfeiture, the Operator shall be liable for additional costs in excess of the bond amount which are required to comply with this Agreement. Any excess monies resulting from the forfeiture of the bond amount upon compliance with this contract shall be refunded to the appropriate party.

- 13. Each signatory below represents that he/she is authorized to execute this Agreement on behalf of the named party. Proof of such authorization is provided on a form acceptable to the Division and is attached hereto.

SO AGREED this _____ day of _____, 19 ____

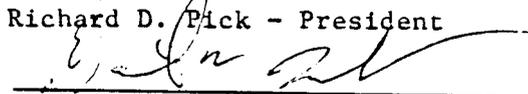
STATE OF UTAH:

Dianne R. Nielson, Director
Division of Oil, Gas and Mining

OPERATOR:



Company Officer - Position
Richard D. Pick - President



Company Officer - Position
D.R. Meadors, Operations Manager



NOTE: An Affidavit of Qualification must be completed and attached to this form for each authorized agent or officer. Where one signs by virtue of Power of Attorney for a company, such Power of Attorney must be filed with this Agreement. If the principal is a corporation, the Agreement shall be executed by its duly authorized officer.

EXHIBIT "A"
SURFACE DISTURBANCE
LEGAL DESCRIPTION

Exhibit "A" - SURFACE DISTURBANCE
August 1988

Permit Number ACT/007/022
Effective Date Aug. 7, 1989

SURFACE DISTURBANCE
--ooOoo--

In accordance with the RECLAMATION AGREEMENT, the OPERATOR intends to conduct coal mining and reclamation activities on or within the surface DISTURBANCE as described hereunder:

Total acres of SURFACE DISTURBANCE 160 acres (more or less)

Legal Description of SURFACE DISTURBANCE:

W $\frac{1}{2}$ SW $\frac{1}{4}$ (except 0.24 ac. in NW corner), and E $\frac{1}{2}$ SW $\frac{1}{4}$
(except East 100'), Section 11, T15S, R10E, S.L.B.&M.

EXHIBIT "B"
SURETY BOND
(NON-FEDERAL COAL)

August 1988
Exhibit "B" - BONDING AGREEMENT
SURETY BOND

Permit Number ACT/007/022
Expiration Date Aug. 7, 1994

(NON-FEDERAL COAL)
SURETY BOND
--oo00oo--

THIS SURETY BOND entered into and by and between the undersigned OPERATOR, and SURETY COMPANY, hereby jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns unto the State of Utah, Division of Oil, Gas and Mining in the penal sum of (\$ 2,441,745.00) (Surety Bond Amount) for the timely performance of reclamation responsibilities of the surface disturbance described in Exhibit "A" of this Reclamation Agreement.

This SURETY BOND shall remain in effect until all applicable rules and the OPERATOR's reclamation obligation have been met and released by the Division of Oil, Gas and Mining.

Terms for release or adjustment of this BOND are as written and agreed to by the DIVISION and the OPERATOR in the RECLAMATION AGREEMENT incorporated by reference herein, to which this SURETY AGREEMENT has been attached as Exhibit "B".

August 1988

AFFIDAVIT OF QUALIFICATION
OPERATOR
--oo00oo--

I, Richard D. Pick, being first duly sworn under oath, deposes and says that he/she is the (officer or agent) _____ of Beaver Creek Coal Co.; and that he/she is duly authorized to execute and deliver the foregoing obligations; and that said OPERATOR is authorized to execute the same and has complied in all respects with the laws of Utah in reference to commitments, undertakings and obligations herein.

(Signed) Richard D. Pick
Name - Position

FILED

Subscribed and sworn to before me this 11th day of September, 1989.

Barry Anderson
Notary Public

My Commission Expires:

4/11, 1993.

Attest:

STATE OF Utah)
COUNTY OF Carbon) ss:

ORIGINAL

R I D E R

RIDER to be attached to and form a part of Bond Number U-629894

on behalf of BEAVER CREEK COAL COMPANY
(Name)

P.O. BOX AU, PRICE, UTAH 84501
(Address)

as Principal, and in favor of STATE OF UTAH, DIVISION OF OIL, GAS AND MINING

as Obligee, executed by UNITED PACIFIC INSURANCE COMPANY as Surety,
in the amount of TWO MILLION FOUR HUNDRED FORTY-ONE THOUSAND SEVEN HUNDRED FORTY-FIVE AND NO/100-----

Dollars (\$ 2,441,745.00) effective AUGUST 6, 19 89.

It is hereby understood and agreed that effective as of SEPTEMBER 5, 1991, the said bond has been amended as follows:

- 1) The Principal's Name has been changed from: BEAVER CREEK COAL COMPANY
to: MOUNTAIN COAL COMPANY
- 2) Specific Language has been added:
"In the event the Cooperative Agreement between the DIVISION and OSM is terminated, then the portion of the bond covering the Federal Lands will be payable only to the United States, Department of Interior, Office of Surface Mining."

Nothing herein contained shall vary, alter or extend any provisions or conditions of the bond other than as above stated.

SIGNED, SEALED AND DATED this 5TH day of SEPTEMBER, 19 91.



MOUNTAIN COAL COMPANY
Principal

UNITED PACIFIC INSURANCE COMPANY
Surety

BY: Thomas H. Barber
Vice President

BY: Dorothy M. Iwanoff
DOROTHY M. IWANOFF
ATTORNEY-IN-FACT

R I D E R

RIDER to be attached to and form a part of Bond Number U-629894
on behalf of BEAVER CREEK COAL COMPANY
(Name)

P.O. Box AU, Price, Utah 84501
(Address)

as Principal, and in favor of STATE OF UTAH

as Obligee, executed by UNITED PACIFIC INSURANCE COMPANY as Surety,
in the amount of TWO MILLION SEVENTEEN THOUSAND SIX HUNDRED SIXTY-NINE-----
Dollars (\$ 2,017,669.00) effective APRIL 22, 19 87.

It is hereby understood and agreed that, effective as of AUGUST 6, 1989,
the Bond Amount on said bond has been increased as follows:

FROM: TWO MILLION SEVENTEEN THOUSAND SIX HUNDRED
SIXTY-NINE AND NO/100 DOLLARS (\$2,017,669.00)

TO: TWO MILLION FOUR HUNDRED FORTY-ONE THOUSAND
SEVEN HUNDRED FORTY-FIVE DOLLARS (\$2,441,745.00)

Nothing herein contained shall vary, alter or extend any provisions or conditions
of the bond other than as above stated.

SIGNED, SEALED AND DATED this 15TH day of AUGUST, 19 89.

SEAL
AW

BEAVER CREEK COAL COMPANY
Principal

UNITED PACIFIC INSURANCE COMPANY
Surety

By: Richard P. L.

By: W. C. DOYLE, ATTORNEY-IN-FACT

UNITED PACIFIC INSURANCE COMPANY

HEAD OFFICE, FEDERAL WAY, WASHINGTON

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That the UNITED PACIFIC INSURANCE COMPANY, a corporation duly organized under the laws of the State of Washington, does hereby make, constitute and appoint

W. C. DOYLE of LOS ANGELES, CALIFORNIA -----

as true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on his behalf, and in his act and deed

ANY AND ALL BONDS AND UNDERTAKINGS OF SURETYSHIP -----

and to bind the UNITED PACIFIC INSURANCE COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the UNITED PACIFIC INSURANCE COMPANY and sealed and attested by one or more of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-Fact may do in pursuance hereof.

The Power of Attorney is granted under and by authority of Article VII of the By-Laws of UNITED PACIFIC INSURANCE COMPANY which became effective September 7, 1978, which provisions are now in full force and effect, reading as follows.

ARTICLE VII - EXECUTION OF BONDS AND UNDERTAKINGS

1. The Board of Directors, the President, the Chairman of the Board, any Senior Vice President, any Vice President or Assistant Vice President or other officer designated by the Board of Directors shall have power and authority to (a) appoint Attorneys-in-Fact and to authorize them to execute on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and (b) to remove any such Attorney-in-Fact at any time and revoke the power and authority given to him.

2. Attorneys-in-Fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof. The corporate seal is not necessary for the validity of any bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

3. Attorneys-in-Fact shall have power and authority to execute affidavits required to be attached to bonds, recognizances, contracts of indemnity or other conditional or obligatory undertakings and they shall also have power and authority to certify the financial statement of the Company and to copies of the By Laws of the Company or any article or section thereof.

A power of attorney is signed and sealed by facsimile under and by authority of the following Resolution adopted by the Board of Directors of UNITED PACIFIC INSURANCE COMPANY at a meeting held on the 6th day of June, 1979, at which a quorum was present, and said Resolution has not been amended or repealed.

"Resolved, that the signatures of such directors and officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be void and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be void and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN WITNESS WHEREOF, the UNITED PACIFIC INSURANCE COMPANY has caused these presents to be signed by its Vice President, and its corporate seal to be hereto affixed, this 23rd day of June 19 87



UNITED PACIFIC INSURANCE COMPANY

Charles B. Schwalz
Vice President

STATE OF Washington
COUNTY OF King

On this 23rd day of June 19 87 personally appeared Charles B. Schwalz

to me known to be the Vice-President of the UNITED PACIFIC INSURANCE COMPANY, and acknowledged that he executed and attested the foregoing instrument and affixed the seal of said corporation thereto, and that Article VII, Section 1, 2, and 3 of the By-Laws of said Company, and the Resolution, set forth therein, are still in full force.

My Commission Expires:

May 15 1990



Pamela Young
Notary Public in and for State of Washington
Residing in Tacoma

Lawrence W. Carlstrom

Assistant Secretary of the UNITED PACIFIC INSURANCE COMPANY, do hereby certify that the foregoing is a true and correct copy of a Power of Attorney executed by said UNITED PACIFIC INSURANCE COMPANY, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 15TH day of AUGUST 19 89



Assistant Secretary *Lawrence W. Carlstrom*
Lawrence W. Carlstrom

**CALIFORNIA
ACKNOWLEDGEMENT BY SURETY**

STATE OF CALIFORNIA

CITY OF LOS ANGELES } ss.

on the 15TH day of AUGUST in the year 19 89, before me CORA V. RODRIGUEZ personally

appeared W. C. DOYLE

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within

document as attorney-in-fact of UNITED PACIFIC INSURANCE COMPANY

and acknowledged to me that the corporation executed it.



Cora V. Rodriguez
Notary Public

ARCO Coal Company
555 Seventeenth Street
Denver, Colorado 80202
Telephone 303 293 4000



August 17, 1987

Pamela Grubaugh-Littig
State of Utah
Natural Resources
Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: Bond No. U-629894

Dear Ms. Littig:

As we discussed by telephone, enclosed is a rider increasing the bond on CV Spur to \$2,017,669.00.

Please contact me if you need anything further in this regard.

Sincerely,

A handwritten signature in cursive script that reads "Mickey L. Love". The signature is fluid and stylized, with the first and last names being more prominent.

Mickey L. Love
Senior Lease Administrator

MLL:mjb
enclosure
cc: Dan Guy

UNITED PACIFIC INSURANCE COMPANY

HOME OFFICE, FEDERAL WAY, WASHINGTON

POWER OF ATTORNEY

NOW ALL MEN BY THESE PRESENTS, That the UNITED PACIFIC INSURANCE COMPANY, a corporation duly organized under the laws of the State of Washington, does hereby make, constitute and appoint

W. C. DOYLE of LOS ANGELES, CALIFORNIA-----

its true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed

ANY AND ALL BONDS AND UNDERTAKINGS OF SURETYSHIP----

and to bind the UNITED PACIFIC INSURANCE COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the UNITED PACIFIC INSURANCE COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-Fact may do in pursuance hereof.

This Power of Attorney is granted under and by authority of Article VII of the By-Laws of UNITED PACIFIC INSURANCE COMPANY which became effective September 7, 1978, which provisions are now in full force and effect, reading as follows:

ARTICLE VII - EXECUTION OF BONDS AND UNDERTAKINGS

1. The Board of Directors, the President, the Chairman of the Board, any Senior Vice President, any Vice President or Assistant Vice President or other officer designated by the Board of Directors shall have power and authority to (a) appoint Attorneys-in-Fact and to authorize them to execute on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and (b) to remove any such Attorney-in-Fact at any time and revoke the power and authority given to him.

2. Attorneys-in-Fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof. The corporate seal is not necessary for the validity of any bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

3. Attorneys-in-Fact shall have power and authority to execute affidavits required to be attached to bonds, recognizances, contracts of indemnity or other conditional or obligatory undertakings and they shall also have power and authority to certify the financial statement of the Company and to copies of the By-Laws of the Company or any article or section thereof.

This power of attorney is signed and sealed by facsimile under and by authority of the following Resolution adopted by the Board of Directors of UNITED PACIFIC INSURANCE COMPANY at a meeting held on the 5th day of June, 1979, at which a quorum was present, and said Resolution has not been amended or repealed:

"Resolved, that the signatures of such directors and officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN WITNESS WHEREOF, the UNITED PACIFIC INSURANCE COMPANY has caused these presents to be signed by its Vice President, and its corporate seal to be hereto affixed, this 1st day of March 19 82.



UNITED PACIFIC INSURANCE COMPANY

Charles B. Schmalz

Vice President

STATE OF Washington }
COUNTY OF King } ss.

On this 1st day of March 19 82, personally appeared Charles B. Schmalz

to me known to be the Vice-President of the UNITED PACIFIC INSURANCE COMPANY, and acknowledged that he executed and attested the foregoing instrument and affixed the seal of said corporation thereto, and that Article VII, Section 1, 2, and 3 of the By-Laws of said Company, and the Resolution, set forth therein, are still in full force.

My Commission Expires:

June 12 1982



Nancy Starnes

Notary Public in and for State of Washington

Residing at Tacoma

Charles J. Falskow

Assistant Secretary of the UNITED PACIFIC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by said UNITED PACIFIC INSURANCE COMPANY, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 4TH day of AUGUST 19 87



Assistant Secretary *Charles J. Falskow*

LIABILITY INSURANCE

(This Certificate of Insurance neither affirmatively nor negatively amends, extends or alters the coverage, limits, terms or conditions of the policies it certifies.)

Original Fireproof File: Copy #4

ORIGINAL

ACT 1007/022

Bill - FBI

CIGNA

COMPANY CODES: *9-ASM*

- CIGNA INSURANCE COMPANY
- CIGNA INS. CO. OF TEXAS
- PACIFIC EMPLOYERS INS. CO. INSURANCE COMPANY OF NORTH AMERICA
- CIGNA INS. CO. OF ILLINOIS
- CIGNA INS. CO. OF OHIO
- (OTHER. — SPECIFY)

FOLD

This is to Certify to

State of Utah
 Dept., of Natural Resources
 Division of Oil, Gas and Mining
 355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 94180-1203

that the following described policy or policies, issued by The Company as coded below, providing insurance only for hazards checked by "X" below, have been issued to:

NAME AND ADDRESS OF INSURED Atlantic Richfield Company, its Subsidiaries and subsidiaries thereof as now or hereinafter constituted, Atlantic Richfield Plaza, 515 So. Flower Street, Los Angeles, CA 90071

covering in accordance with the terms thereof, at the following location(s):

Including Mountain Coal Company and ARCO Coal Company

TYPE OF POLICY	HAZARDS	CO. CODE	POLICY NUMBER	POLICY PERIOD	LIMITS OF LIABILITY
(a) Standard Workmen's Compensation & Employers' Liability	<input type="checkbox"/>	<input type="checkbox"/>			\$ Statutory W. C. One Accident and Aggregate Disease
(b) General Liability Premises—Operations (including "Incidental Contracts" as defined below) Independent Contractors Completed Operations/Products Contractual, (Specific type as described in footnote below)	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9	ISL G1 519134-A	01-01-93 to 01-01-96	\$ See Below \$ Each Person \$ Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence \$ Aggregate—Completed Operations/Products
	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9			
Property Damage Premises—Operations (including "Incidental Contracts" as defined below) Independent Contractors Completed Operations/Products Contractual, (Specific type as described in footnote below)	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9	ISL G1 519134-A	01-01-93 to 01-01-96	\$ See Below \$ Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence \$ Aggregate—Prem./Oper. \$ Aggregate—Protective \$ Aggregate—Completed Operations/Products \$ Aggregate—Contractual
	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input type="checkbox"/> 9			
(c) Automobile Liability Owned Automobiles Hired Automobiles Non-owned Automobiles	<input type="checkbox"/>	<input type="checkbox"/>			\$ Each Person \$ Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence
	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>			
Property Damage Owned Automobiles Hired Automobiles Non-owned Automobiles	<input type="checkbox"/>	<input type="checkbox"/>			\$ Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence
	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>			
(d) **INCLUDES "XCU" COVERAGE					* \$500,000 Combined Single Limit, per occurrence/aggregate where applicable.

Contractual Footnote: Subject to all the policy terms applicable, specific contractual coverage is provided as respects

(Check) a contract
 (Applicable) purchase order agreements
 (Block) all contracts

between the Insured and:

In the event of cancellation of the policy or policies by the company, Forty Five (45) days' written notice of such cancellation will be given to you at the address stated above.

NAME OF OTHER PARTY

DATE (if applicable)

CONTRACT NO. (if any)

DESCRIPTION (OR JOB)
 C.V. Spur Coal Processing and Loadout Facility Act/007/022

Definitions: "Incidental contract" means any written (1) lease of premises (2) easement agreement, except in connection with construction or demolition operations on or adjacent to a railroad, (3) undertaking to indemnify a municipality required by municipal ordinance, except in connection with work for the municipality, (4) sidetrack agreement, or (5) elevator maintenance agreement.

DIVISION ORDERS

WATER MONITORING

ing and Reclamation Plan
 Castle Valley Spur Coal Processing and Loadout Facility

Water Monitoring Program
Castle Valley Spur

Station	Location	Type	Frequency	Flow Device	Results To	Remarks
CV-0-W	N.W. Corner of Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-1-W	Pumphouse	French Drain	Bi-Annually	Time/Volume	DOGM, OSM	
CV-3-W	South Central Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-4-W	NE Corner Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-5-W	North Central Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-6-W	E. Central Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-10-W	S.E. Adjacent Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-11-W	N.E. Adjacent Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-12-W	North Adjacent Property	Well	Bi-Annually	Level Rod	DOGM, OSM	
CV-14-W	N.E. Corner Property	Ditch	Bi-Annually	Level Rod	DOGM, OSM	
CV-15-W	Sed. Pond Discharge	Pond Outlet	Monthly	Hand-Held Time/Volume	E.P.A., DOGM Utah Health Dept.	Monitored per NPDES Permit
CV-16-W	West Property Line	Surface Ditch	Bi-Annually	Time/Volume	DOGM	Baseline thru 6/91

Mountain Coal Company
West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015
Fax 303 929-5595



January 25, 1994

Ms. Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Ms. Littig:

Enclosed are the results of the Mountain Coal Company Water Monitoring for the Fourth Quarter of 1993.

If you have any questions or need any additional information, please contact me.

Respectfully,

Dan W. Guy for
Kathy Welt, MCC

DWG/db

Enclosures

cc: Kathy Welt, MCC
File
WIRMON

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station = CK-0W

Company Mountain Coal

Time 9:50

Flow/Depth 0

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring Stream Well Discharge NPDES

Collection Point _____

Appearance of Water: Clear Milky Cloudy Grassy

Quality Sample Taken: Yes No

Flow Measuring _____

Comments Dry

Field Monitor Todd White

When Sample or Measurements Not Taken:

Reason: Dry

D = Dry F = Frozen N/A = Not Accessible N/R = Not Reported

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-O-W
 Location: NW Corner of Property
 Type: Well
 Frequency: Bi-Annually

Field Measurements	05/13/93	Date Sampled	12/13/93	Mean
Flow [gpm]	DRY		DRY	DRY
PH				
Sp. Cond. [ohms]				
Temp. [C]				
Diss. O [ppm]				

Lab. Meas. [mg/l]

TDS

TSS

O & G

Al CaCO3

Hd CaCO3

Ac CaCO3

HCO3

CO3

Cl

SO4

Ca

Mg

K

Na

Cat/An

Fe

Mn

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station CK-1W

Geology Mountain Coal

Time 10:20

Flow/Depth 15' FS

pH 7.16

Specific Conductivity 10.47 x 1000 (ICHS)

Water Temperature 6°C

Air Temperature _____

Dissolved Oxygen _____

Site: Spring _____ Stream _____ Well _____ Discharge

Collection Point Inside Pump House

Appearance of Water: Clear _____ Milky _____ Cloudy

Quality Sample Taken: Yes No _____

Depth of Sample _____

Remarks _____

Field Operator Ed Webb

Flow Sample or Measurements Not Taken:

Reason: _____

D = Day F = Frozen N/A = Not Accessible N/D = Not Done

Client: **EIS**
 Project: **Mountain Coal CO.**
 Sample ID: **CV-1-W**
 Laboratory ID: **4367**
 Sample Matrix: **Water**
 Condition: **Cool / Intact**

Date Reported: **01/10/94**
 Date Sampled: **12/13/93**
 Time Sampled: **1020**
 Date Received: **12/17/93**

Parameter	Analytical		Units
	Result	Units	

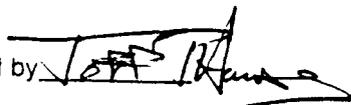
Lab pH.....	8.2	s.u.		
Lab Conductivity @ 25° C.....	14,300	umhos/cm		
Total Dissolved Solids @ 180°C.....	13,200	mg/L		
Total Dissolved Solids (Calc).....	12,900	mg/L		
Total Suspended Solids.....	322	mg/L		
Total Alkalinity as CaCO3.....	393	mg/L		
Total Hardness as CaCO3.....	2,320	mg/L		
Settleable Solids.....	NA	mL/L		
Total Oil and Grease.....	NA	mg/L		
Bicarbonate as HCO3.....	479	mg/L	7.85	meq/L
Carbonate as CO3.....	0	mg/L	0.00	meq/L
Hydroxide as OH.....	0	mg/L	0.00	meq/L
Chloride.....	180	mg/L	5.11	meq/L
Sulfate.....	8,490	mg/L	176.86	meq/L
Calcium.....	330	mg/L	16.22	meq/L
Magnesium.....	366	mg/L	30.11	meq/L
Potassium.....	60	mg/L	1.53	meq/L
Sodium.....	3,210	mg/L	139.63	meq/L
Cations.....			187.49	meq/L
Anions.....			189.82	meq/L
Cation/Anion Difference.....			0.62 %	

Trace Metals

Iron (total).....	1.15	mg/L
Manganese (total).....	0.04	mg/L

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 "Standard Methods For The Examination Of Water And Waste Water", 17th ed., 1989.

Comments: "NA" Indicates that sample volume was not available for complete analysis

Reviewed by 

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-1-W
 Location: NE Corner of Property
 Type: French Drain
 Frequency: Bi-Annually

Field Measurements	Date Sampled		MEAN
	07/27/93	12/13/93	
Flow (GPM)	60.00	Over Inlet	60.00
PH	8.20	7.16	7.68
Sp. Cond. [ohms]	10,000+	10,420.00	10,000+
Temp. [C]	9.00	6.00	7.50
Diss. O [ppm]	7.00	N/A	7.00

Lab. Meas. [mg/l]			
TDS	17,600.00	12,900.00	15,250.00
TSS	10.00	322.00	166.00
Al CaCO3	391.00	393.00	392.00
Hd CaCO3	3,090.00	2,320.00	2,705.00
Ac CaCO3	0.00	0.00	0.00
HCO3	477.00	479.00	478.00
CO3	0.00	0.00	0.00
Cl	250.00	180.00	215.00
SO4	11,800.00	8,490.00	10,145.00
Ca	470.00	330.00	400.00
Mg	464.00	366.00	415.00
K	44.00	60.00	52.00
Na	4,340.00	3,210.00	3,775.00
Cat/An	1.66	0.62	1.14
Fe	0.13	1.15	0.64
Mn	0.02	0.04	0.03

E.I.S. Hydrology
Field Measurements Form

Date 12/13/93

Station: CU 3W

Company Mountain Coal Company

Time 11:25

Flow/Depth 6.5'

PH 6.43

Specific Conductivity 5.36 x 1000

Water Temperature 6°C

Air Temperature _____

Dissolved Oxygen _____

Source: Spring ___ Stream ___ Well Discharge ___

Collection Point _____

Appearance of Water: Clear ___ Milky ___ Cloudy

Quality Sample Taken: Yes No ___

Sample Labeling _____

Comments _____

Field Monitor V. H. Weary

Time and Date of Measurements Not Taken:

Reason: _____

S = Dry F = Frozen N/A = Not Accessible N/R = Not Recorded

Client: **EIS**
 Project: **Mountain Coal CO.**
 Sample ID: **CV-3-W**
 Laboratory ID: **4366**
 Sample Matrix: **Water**
 Condition: **Cool / Intact**

Date Reported: **01/10/94**
 Date Sampled: **12/13/93**
 Time Sampled: **1125**
 Date Received: **12/17/93**

Parameter	Analytical		Units
	Result	Units	

Lab pH.....	7.2	s.u.		
Lab Conductivity @ 25° C.....	3,800	umhos/cm		
Total Dissolved Solids @ 180°C.....	3,620	mg/L		
Total Dissolved Solids (Calc).....	3,380	mg/L		
Total Suspended Solids.....	1,250	mg/L		
Total Alkalinity as CaCO3.....	261	mg/L		
Total Hardness as CaCO3.....	1,820	mg/L		
Settleable Solids.....	NA	mL/L		
Total Oil and Grease.....	NA	mg/L		
Bicarbonate as HCO3.....	318	mg/L	5.22	meq/L
Carbonate as CO3.....	0	mg/L	0.00	meq/L
Hydroxide as OH.....	0	mg/L	0.00	meq/L
Chloride.....	37	mg/L	1.05	meq/L
Sulfate.....	2,220	mg/L	46.17	meq/L
Calcium.....	410	mg/L	20.34	meq/L
Magnesium.....	196	mg/L	16.11	meq/L
Potassium.....	10	mg/L	0.26	meq/L
Sodium.....	350	mg/L	15.33	meq/L
Cations.....			52.04	meq/L
Anions.....			52.45	meq/L
Cation/Anion Difference.....			0.39 %	

Trace Metals

Iron (total).....	11.49	mg/L
Manganese (total).....	0.73	mg/L

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 "Standard Methods For The Examination Of Water And Waste Water", 17th ed., 1989.
 Comments: "NA" Indicates that sample volume was not available for complete analysis

Reviewed by 

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-3-W
 Location: South Truckyard
 Type: Well
 Frequency: Bi-Annual

Field Measurements	Date Sampled		Mean
	07/27/93	12/13/93	
DFS (INCHES)	4' 11"	6' 6"	5' 8.5"
PH	8.20	6.43	7.32
Sp. Cond. [ohms]	10,490.00	5,360.00	7,925.00
Temp. [C]	6.00	6.00	6.00
Diss. O [ppm]	N/A	N/A	N/A

Lab. Meas. [mg/l]			
TDS	3,510.00	3,380.00	3,445.00
TSS	73.00	1,250.00	661.50
O & G	N/R	N/R	N/R
Al CaCO3	282.00	261.00	271.50
Hd CaCO3	1,820.00	1,820.00	1,820.00
Ac CaCO3	N/R	N/R	N/R
HCO3	344.00	318.00	331.00
CO3	0.00	0.00	0.00
Cl	39.00	37.00	38.00
SO4	2,260.00	2,220.00	2,240.00
Ca	460.00	410.00	435.00
Mg	166.00	196.00	181.00
K	27.00	10.00	18.50
Na	400.00	350.00	375.00
Cat/An	0.78	0.39	0.59
Fe	1.08	11.49	6.29
Mn	0.45	0.73	0.59

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station CY-4W

Location Mountain Coal

Time 10:30

Flow/Depth 0

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Point: Spring _____ Stream _____ Well Discharge _____

Collection Point behind pump base

Appearance of Water: Clear _____ Milky _____ Cloudy _____

Quality Sample Taken: Yes _____ No

Flow Gauging _____

Comments Dry

Field Notes Ladd Well

Measurements or measurements Not Taken:

Reason: Dry

0 = 0 F = Frozen N/A = Not Accessible N.D. = Not Done

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-4-W
 Location: NE Corner of Property
 Type: Well
 Frequency: Bi-Annually

Field Measurements	05/13/93	Date Sampled	12/13/93	Mean
Flow [gpm]	DRY		DRY	DRY
PH				
Sp. Cond. [ohms]				
Temp. [C]				
Diss. O [ppm]				

Lab. Meas. [mg/l]
TDS
TSS
O & G
Al CaCO3
Hd CaCO3
Ac CaCO3
HCO3
CO3
Cl
SO4
Ca
Mg
K
Na
Cat/An
Fe
Mn

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station CV54

Location Mountain Coal

Time 10:00

Flow/Depth 0

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Site: Spring _____ Stream _____ Well X Discharge _____

Collection Point _____

Appearance of Water: Clear _____ Milky _____ Cloudy _____

Quality Sample Taken: Yes _____ No X

Depth (feet) _____

Remarks: Not enough water to take quality sample only about 2 in³ of water

Field Monitor David West

Other Sample or Measurements Not Taken:

Bottom: Dry. Muddy at bottom of hole 1 to 2" of water only.

L = Log F = Frozen N/A = Not Accessible N/D = Not Done

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-5-W
 Location: N Central Property
 Type: Well
 Frequency: Bi-Annually

Field Measurements	05/13/93	Date Sampled	12/13/93	Mean
Flow [gpm]	DRY		DRY	DRY
PH				
Sp. Cond. [ohms]				
Temp. [C]				
Diss. O [ppm]				

Lab. Meas. [mg/l]

TDS

TSS

O & G

Al CaCO3

Hd CaCO3

Ac CaCO3

HCO3

CO3

Cl

SO4

Ca

Mg

K

Na

Cat/An

Fe

Mn

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station CV-6W

Company Martin Cant

Time 11:00

Flow/Depth 0

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring _____ Stream _____ Well Discharge _____

Collection Point _____

Appearance of Water: Clear _____ Milky _____ Cloudy _____

Quality Sample Taken: Yes _____ No

Drop Sealing _____

Comments Either Dry or Frozen no presence of water or moisture

Field Auditor off Wang

Flow Sample or Measurements Not Taken:

Reason: Dry or Frozen

0 = Dry F = Frozen N/A = Not Accessible N/D = Not Determined

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-6-W
 Location: East Central Property
 Type: Well
 Frequency: Bi-Annual

Field Measurements	Date Sampled		Mean
	07/27/93	12/13/93	
DFS [ft]	6' 4"	DRY	6' 4"
PH	8.20		8.20
Sp. Cond. [ohms]	10000+		10000+
Temp. [C]	6.00		6.00
Diss. O [ppm]	N/R		N/R

Lab. Meas. [mg/l]			
TDS		17,900.00	17,900.00
TSS		18.00	18.00
O & G		N/R	N/R
Al	CaCO3	404.00	404.00
Hd	CaCO3	3,100.00	3,100.00
Ac	CaCO3	0.00	0.00
HCO3		493.00	493.00
CO3		0.00	0.00
Cl		250.00	250.00
SO4		11,800.00	11,800.00
Ca		470.00	470.00
Mg		466.00	466.00
K		46.00	46.00
Na		4,560.00	4,560.00
Cat/An		0.08	0.08
Fe		0.19	0.19
Mn		0.02	0.02

E.I.S. Hydrology
Field Measurements Form

Date 12/13/93

Station CU 10 W

Company Mountain Pac Company

Time 11:40

Flow/Depth -

pH -

Specific Conductivity -

Water Temperature -

Air Temperature -

Dissolved Oxygen -

Type: Spring - Stream - Well Discharge -

Collection Point -

Appearance of Water: Clear - Milky - Cloudy -

Quality Sample Taken: Yes - No

Sample Labeling -

Access obstructed

Field Number 244 W113

Why Sample or Measurements Not Taken:

Reason: well is obstructed

D = Dry F = Frozen N/A = Not Accessible N, I = Not In Use

WATER MONITORING REPORT

Property: CV Spur
Station: CV-10-W
Location: SE Adj. to Property
Type: Well
Frequency: Bi-Annually

Field Measurements	05/13/93	Date Sampled	12/13/93	Mean
Flow [gpm]	DRY		DRY	DRY
PH				
Sp. Cond. [ohms]				
Temp. [C]				
Diss. O [ppm]				

Lab. Meas. [mg/l]
TDS
TSS
O & G
Al CaCO3
Hd CaCO3
Ac CaCO3
HCO3
CO3
Cl
SO4
Ca
Mg
K
Na
Cat/An
Fe
Mn

E. I. S. Hydrology
Field Measurements Form

Date 12/13/93

Station # CU 11W

Company Mountain Com Co.

Time 11:50

Flow/Depth 38" = 3' 2"

pH 6.87

Specific Conductivity GREATER THAN 99.99 x 1000 - 2500

Water Temperature 6°C

Air Temperature _____

Dissolved Oxygen _____

Type: Spring _____ Stream _____ Well Discharge _____ NPDES _____

Collection Point _____

Appearance of Water: Clear _____ Milky _____ Cloudy Opaque _____

Quality Sample Taken: Yes No _____

Pump Reading _____

Comments _____

Field Monitor Todd Wary

When Sample or Measurements Not Taken:

Reason: _____

D = Dry F = Frozen N/A = Not Accessable N/R = Not Required

Client: **EIS**
 Project: Mountain Coal CO.
 Sample ID: CV-11-W
 Laboratory ID: 4368
 Sample Matrix: Water
 Condition: Cool / Intact

Date Reported: 01/10/94
 Date Sampled: 12/13/93
 Time Sampled: 1150
 Date Received: 12/17/93

Parameter	Analytical		Units
	Result	Units	

Lab pH.....	7.9	s.u.		
Lab Conductivity @ 25° C.....	24,800	umhos/cm		
Total Dissolved Solids @ 180°C.....	26,500	mg/L		
Total Dissolved Solids (Calc).....	20,400	mg/L		
Total Suspended Solids.....	488	mg/L		
Total Alkalinity as CaCO3.....	1,080	mg/L		
Total Hardness as CaCO3.....	4,840	mg/L		
Settleable Solids.....	NA	mL/L		
Total Oil and Grease.....	NA	mg/L		
Bicarbonate as HCO3.....	1,320	mg/L	21.66	meq/L
Carbonate as CO3.....	0	mg/L	0.00	meq/L
Hydroxide as OH.....	0	mg/L	0.00	meq/L
Chloride.....	280	mg/L	8.03	meq/L
Sulfate.....	12,200	mg/L	254.22	meq/L
Calcium.....	330	mg/L	16.22	meq/L
Magnesium.....	979	mg/L	80.61	meq/L
Potassium.....	24	mg/L	0.61	meq/L
Sodium.....	5,890	mg/L	256.20	meq/L
Cations.....			353.64	meq/L
Anions.....			283.91	meq/L
Cation/Anion Difference.....			10.94 % *	

Trace Metals

Iron (total).....	7.52	mg/L
Manganese (total).....	0.65	mg/L

Reference: U.S.E.P.A. 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
 "Standard Methods For The Examination Of Water And Waste Water", 17th ed., 1989.

Comments: "NA" Indicates that sample volume was not available for complete analysis
 *Re-Analyses did not result in a significant decrease in the cation/anion percent difference

Reviewed by 

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-11-W
 Location: NE Adj to Property
 Type: Well
 Frequency: Bi-Annually

Field Measurements	Date Sampled		Mean
	07/27/93	12/13/93	
DFS [ft]	4' 8"	3' 2"	3' 11"
PH	7.90	6.87	7.39
Sp. Cond. [ohms]	>10000	>10000	>10000
Temp. [C]	9.00	6.00	7.50
Diss. O [ppm]	N/R	N/R	N/R

Lab. Meas. [mg/l]			
TDS	16,000.00	20,400.00	18,200.00
TSS	2,170.00	488.00	1,329.00
O & G	N/R	N/A	N/R
Al CaCO3	780.00	1,080.00	930.00
Hd CaCO3	3,940.00	4,840.00	4,390.00
Ac CaCO3	0.00	0.00	0.00
HCO3	951.00	1,320.00	1,135.50
CO3	0.00	0.00	0.00
Cl	160.00	280.00	220.00
SO4	10,600.00	12,200.00	11,400.00
Ca	270.00	330.00	300.00
Mg	792.00	979.00	885.50
K	30.00	24.00	27.00
Na	3,610.00	5,890.00	4,750.00
Cat/An	1.10	10.94	6.02
Fe	3.05	7.52	5.29
Mn	4.31	0.65	2.48

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station CV-12-4

Geology Mountain Coal

Time 10:36

Flow/Depth 0

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring _____ Stream _____ Well X Discharge _____

Collection Point _____

Type/Color of Water: Clear _____ Milky _____ Cloudy _____

Quality Sample Taken: Yes _____ No X

Flow Indicator _____

Comments Dry ~~Dr~~

Field Indicator Ladd Wet

When Sample or Measurements Not Taken:

Reason: Dry 2" of mud at bottom

D = Dry F = Frozen N/A = Not Accessible N, E = Not

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-12-W
 Location: North Adj. To Property
 Type: Well
 Frequency: Bi-Annually

Field Measurements	05/13/93	Date Sampled	12/13/93	Mean
Flow [FS]	DRY		DRY	DRY
PH				
Sp. Cond. [ohms]				
Temp. [C]				
Diss. O [ppm]				

Lab. Meas. [mg/l]

TDS

TSS

O & G

Al CaCO3

Hd CaCO3

Ac CaCO3

HCO3

CO3

Cl

SO4

Ca

Mg

K

Na

Cat/An

Fe

Mn

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station CV-142

Location Mountain Coal

Time 10:30

Flow Rate 0

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Source: Spring _____ Stream _____ Well _____ Discharge ^{Drainage Ditch}

Collection Point behind pump house

Appearance of Water: Clear _____ Milky _____ Cloudy _____

Quality Sample Taken: Yes _____ No

Sample Volume _____

Comments Prz

Field Notes Yadd waly

Why Sample or Measurements Not Taken:

Reason: Prz

D = Dry F = Frozen N/A = Not Accessible N/D = Not Done

WATER MONITORING REPORT

Property: CV Spur
Station: CV-14-W
Location: NE Property
Type: Ditch
Frequency: Bi-Annually

Field Measurements	05/13/93	Date Sampled	12/13/93	Mean
Flow [gpm]	DRY	DRY	DRY	DRY
PH				
Sp. Cond. [ohms]				
Temp. [C]				
Diss. O [ppm]				

Lab. Meas. [mg/l]
TDS
TSS
O & G
Al CaCO3
Hd CaCO3
Ac CaCO3
HCO3
CO3
Cl
SO4
Ca
Mg
K
Na
Cat/An
Fe
Mn

E.I.S. Hydrology
Field Measurements Form

Date 10/25/93 Station # 01-15W

Company MH Pool

Time 14:20

Flow/Depth D

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring ___ Stream ___ Well ___ Discharge NPDES ___

Collection Point _____

Appearance of Water: Clear ___ Milky ___ Cloudy ___ Opaque ___

Quality Sample Taken: Yes ___ No

Pump Reading _____

Comments _____

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: D

D = Dry F = Frozen N/A = Not Accessable N/R = Not Required

E.I.S. Hydrology
Field Measurements Form

Date 11/8/93 Station # CW-15W

Company M.A. Coal

Time 13:20

Flow/Depth D

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring ___ Stream ___ Well ___ Discharge NPDES ___

Collection Point _____

Appearance of Water: Clear ___ Milky ___ Cloudy ___ Opaque ___

Quality Sample Taken: Yes ___ No

Pump Reading _____

Comments _____

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: _____

D = Dry F = Frozen N/A = Not Accessable N/R = Not Required

E.I.S. Hydrology
Field Measurements Form

Date 12-13-93

Station CK-15-U

Company/Property Mountain Coal

Time 10:45

Flow/Depth 0

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring Stream Well Discharge

Collection Point _____

Appearance of Water: Clear Milky Cloudy

Quality Sample Taken: Yes No

Flow Gauging _____

Comments dry

Field Monitor Todd West

Flow Sample or Measurements Not Taken:

Reason: dry

0 = Dry F = Frozen N/A = Not Accessible N/D = Not Determined

E.I.S. Hydrology
Field Measurements Form

Date 12/9/93

Station # EV-1500

Company McCool

Time 8:10

Flow/Depth D

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature 34°

Dissolved Oxygen _____

Type: Spring ___ Stream ___ Well ___ Discharge NPDES ___

Collection Point Pond out flow #5

Appearance of Water: Clear ___ Milky ___ Cloudy ___ Opaque ___

Quality Sample Taken: Yes ___ No ✓

Pump Reading _____

Comments _____

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: D

D = Dry F = Frozen N/A = Not Accessable N/R = Not Required

WATER MONITORING REPORT

Property: Castle Valley Spur
 Station: CV-15-W
 Location: Sed. Pond Discharge
 Type: Pond Outlet
 Frequency: Monthly

Date Sampled

Field Measurements 01/07/93 02/08/93 03/10/93 04/01/93 05/13/93 06/09/93 07/27/93 08/05/93 09/20/93 10/28/93 11/08/93

Flow [gpm] DRY DRY

PH

Sp.Con. [ohms]

Temp [C]

Diss. O. [ppm]

Lab. Meas. [mg/l]

TDS

TSS

O & G

Al CaCO3

Hd CaCO3

Ac CaCO3

HCO3

CO3

Cl

SO4

Ca

Mg

K

Na

Cat/An

Fe

Mn

E.I.S. Hydrology
Field Measurements Form

Date 12/9/23 Station # CV-16W

Company Mt. Leal

Time 8:21

Flow/Depth D

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring ___ Stream Well ___ Discharge ___ NPDES ___

Collection Point Culvert under Road to RACO

Appearance of Water: Clear ___ Milky ___ Cloudy ___ Opaque ___

Quality Sample Taken: Yes ___ No

Pump Reading _____

Comments _____

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: [Signature]

D = Dry F = Frozen N/A = Not Accessable N/R = Not Required

WATER MONITORING REPORT

Property: CV Spur
 Station: CV-16-W
 Location: West [Central]
 Type: Ditch
 Frequency: Quarterly [Baseline]

Field Measurements	Date Sampled				Mean
	03/10/93	05/13/93	08/05/93	12/09/93	
Flow [gpm]	DRY	DRY	DRY	DRY	DRY
PH					
Sp. Cond. [ohms]					
Temp. [C]					
Diss. O [ppm]					

Lab. Meas. [mg/l]

TDS
TSS
O & G
Al CaCO3
Hd CaCO3
Ac CaCO3
HCO3
CO3
Cl
SO4
Ca
Mg
K
Na
Cat/An
Fe
Mn

**U.P.D.E.S.
DISCHARGE DATA**

PERMITTEE NAME / Facility Name/Location: **BRANNON COAL--CV SPUR**
 ADDRESS: **P.O. BOX 1378**
PRICE **UT 84501**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MONITORING REPORT (DMR)
 (2-16) (17-19)

P - FINAL
SED PND OFPL-DRNG DTCH/PRC RVR

UTG040005
 PERMIT NUMBER

001 A
 DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
93	01	01		93	01	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR

NOTE: Read instructions before completing this form.

FACILITY: _____
 LOCATION: _____
 ATTN: **DAN J. GUY, MANAGER**

PARAMETER (32-37)	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW RATE		NO DISCHARGE			*****	*****	*****			
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DA AV	REPORT DAILY MX	GPD	*****	*****	*****	***		W/ WEASRD
PH	SAMPLE MEASUREMENT	*****	*****			*****				
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	6.5	*****	9.0	***		TWICE/GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****		*****					
00530 P 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	***	*****	25	70	***		ONCE/GRAB
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****		*****	*****				
00545 0 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	***	*****	*****	0.5	***		ONCE/GRAB
OIL AND GREASE FROM EXTR-GRAV WPTH	SAMPLE MEASUREMENT	*****	*****		*****	*****				
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	10	***		ONCE/GRAB
IRON, TOTAL (AS PB)	SAMPLE MEASUREMENT	*****	*****		*****	*****				
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	2.0	***		ONCE/GRAB
FLOATING SOLIDS OR VISIBLE FOAM-VISUAL	SAMPLE MEASUREMENT	*****			*****	*****	*****			
45613 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	RS=1 NO=0	*****	*****	*****	***		ONCE/GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER:
Kathleen Welt
 Environmental Supervisor

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Dan J. Guy
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 801 637-2422
 DATE: 93 04 27

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME: **RESS (Include Facility Name/Location)**
NAME BEAVER CREEK COAL--CV 5POR
ADDRESS P.O. BOX 1379
PRC07 UT 84501

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**
 (2-16) (17-19)
PERMIT NUMBER UTG040005 **DISCHARGE NUMBER** 001 A

P - FINAL
SPD PND DTPL-DRNG DTCH/PRC RVR

FACILITY
LOCATION
ATTN: DAN W. GUY, MANAGER

MONITORING PERIOD
 FROM

YEAR	MO	DAY
93	01	01

 TO

YEAR	MO	DAY
93	01	31

 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MINOR
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SANITARY WASTE DISCHARGE ASSESSMENT	SAMPLE MEASUREMENT	*****			*****	*****	*****			
45614 1 0 0	PERMIT REQUIREMENT	*****		YES=1	*****	*****	*****			DOES/ VISUAL MONTH
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****			*****	*****				
SOLIDS, TOTAL DISSOLVED	PERMIT REQUIREMENT	*****	2000	NO=0	*****	*****	REPORT			ONCE/ GRAB MONTH
70245 0 0 0	SAMPLE MEASUREMENT			DAILY MK LBS/DY			DAILY MK MG/L			
SEE COMMENTS BELOW	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Kathleen Welt Environmental Supervisor	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE 801 637-2422	DATE				
			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Dan W. Guy</i>	AREA CODE	NUMBER	YEAR	MO
TYPED OR PRINTED					93	04	27

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 TDS IS LIMITED TO ONE TON PPR DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME: **CRICK COAL--CV SPUR**
 ADDRESS: **P.O. BOX 1373**
PRICR UT 84501

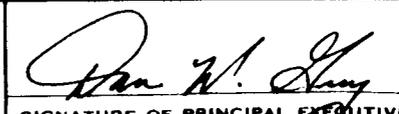
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)
UT040005 (PERMIT NUMBER)
001 A (DISCHARGE NUMBER)

P - FINAL
SED PND DTPL-DRNG DTCH/PRC RVR

FACILITY: _____
 LOCATION: _____
 APP: **DAV W. GUY, MANAGER**

MONITORING PERIOD
 FROM: **93 02 31** TO: **93 02 28**
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MINOR
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-43)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW RATE		NO	DISCHARGE		*****	*****	*****			
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DA AV	REPORT DAILY MX	GPD	*****	*****	*****	*** ****	ONCE/ MONTH	WEARSD
PH	SAMPLE MEASUREMENT	*****	*****			*****				
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*** ***	6.5 DAILY MX	*****	9.0 DAILY MX	SO	ONCE/ GRAB	MONTH
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****		*****					
00530 1 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	*** ***	*****	25 30 DA AV	70 DAILY MX	MG/L	ONCE/ GRAB	MONTH
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****		*****	*****				
03545 1 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	*** ***	*****	*****	0.5 DAILY MX	ML/L	ONCE/ GRAB	MONTH
OIL AND GREASE FROM EXPR-TRAV METH	SAMPLE MEASUREMENT	*****	*****		*****	*****				
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*** ***	*****	*****	10 DAILY MX	MG/L	ONCE/ GRAB	MONTH
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****		*****	*****				
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*** ***	*****	*****	2.0 DAILY MX	MG/L	ONCE/ GRAB	MONTH
FLOATING SOLIDS OR VISIBLE FOAM-VISUAL	SAMPLE MEASUREMENT	*****			*****	*****	*****			
45613 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	0	YES=1 NO=0	*****	*****	*****	*** ***	ONCE/ VISUAL	MONTH
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)						TELEPHONE		DATE	
Kathleen Welt Environmental Supervisor							801 637-2422		93 04 27	
TYPED OR PRINTED							SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
TDS IS LIMITED TO ONE PPM PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME: WELLS COAL--CV SPD
 ADDRESS: 1000 13TH
 CITY: UT 84501

NATIONAL POLLUTANT DISCHARGE MONITORING REPORT (NPDES)
 DISCHARGE PERMIT NUMBER: UTG040005
 DISCHARGE NUMBER: 001 A

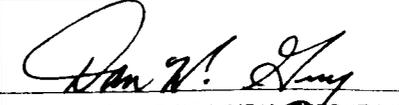
P - FINAL
 SED PND DTPL-DRNG DTCH/PRC RVR

FACILITY: _____
 LOCATION: _____
 APPRO: DAN J. GUY, MANAGER

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	93	02	01		93	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-55)	MAXIMUM (56-57)	UNITS (58-59)	MINIMUM (46-47)	AVERAGE (48-49)	MAXIMUM (50-51)			
SANITARY WASTE DISCHARGE-ASSUMED	*****				*****	*****	*****			
EFFLUENT GROSS VALUE	*****		DAILY MX	YES=1 NO=0	*****	*****	*****	***	ONCE/	VISUAL
SOLIDS, TOTAL DISSOLVED	*****		DAILY MX	LBS/DY	*****	*****	REPORT DAILY MX	MS/L	ONCE/	GRAB
	*****	2000			*****	*****			MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Kathleen Welt Environmental Supervisor	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 31 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE 801 637-2422	DATE 93 04 27	
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 TSS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE REPORTED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME: WESS (Include Facility Name/Location)
 NAME: WESS
 ADDRESS: PO BOX 1374
UT 84501

FACILITY: _____
 LOCATION: _____
 ATTN: DAVID L. GUY, MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MONITORING REPORT (DMR)
 (2-16) (17-19)

WPS040005 PERMIT NUMBER
 001 A DISCHARGE NUMBER

P - FINAL
 SED PND DTPL-DRNG DTCH/PRC RVR

MONITORING PERIOD
 FROM YEAR 93 MO 03 DAY 31 TO YEAR 93 MO 03 DAY 31
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MINOR NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW RATE		NO	DISCHARGE		*****	*****	*****			
00056 1 0 0 EFFLUENT GROSS VALUE PH	PERMIT REQUIREMENT	REPORT 30 DA AV	REPORT DAILY MX	GPD	*****	*****	*****	***	ONCE/ MONTH	BASED
00400 1 0 0 EFFLUENT GROSS VALUE PH	PERMIT REQUIREMENT	*****	*****	****	6.5 DAILY MX	*****	9.0 DAILY MX	SU	TWICE/ GRAB MONTH	
SOLIDS, TOTAL SUSPENDED 00530 P 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	25 30 DA AV	70 DAILY MX	MG/L	ONCE/ GRAB MONTH	
SOLIDS, SETTLEABLE 00545 P 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	0.5 DAILY MX	ML/L	ONCE/ GRAB MONTH	
OIL AND GREASE FROM EXTR-GRAV METH 00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	10 DAILY MX	MG/L	ONCE/ GRAB MONTH	
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	2.0 DAILY MX	MG/L	ONCE/ GRAB MONTH	
FLOATING SOLIDS OR VISIBLE FOAM-VISUAL 45613 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	***	ONCE/ VISUAL MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Kathleen Welt
 Environmental Supervisor
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 31 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 801 637-2422
 DATE: 93 04 27
 AREA CODE: _____ NUMBER: _____ YEAR: 93 MO: 04 DAY: 27

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 THIS IS LIMITED TO ONE ROW PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHOULD BE REPORTED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME/ Facility Name/Local: **MISSISSIPPI POWER COAL--CV 1P13**
 ADDRESS: **PO BOX 1379**
PRICE UT 94501

NATIONAL POLLUTANT CHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)

03040005
 PERMIT NUMBER

001 A
 DISCHARGE NUMBER

P - FINAL
SPD PND OTPL-DRNG DTCH/PRC RVR

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	93	03	01		93	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MINOR
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SANITARY WASTE DISCHARGE-ASSESSMENT 45614 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****			*****	*****	*****			
	PERMIT REQUIREMENT	*****	0	DAILY MK YES=1 NO=0	*****	*****	*****	***	ONCE/ MONTH	VISUAL
SOLIDS, TOTAL DISSOLVED 70295 0 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****			*****	*****				
	PERMIT REQUIREMENT	*****	2000	DAILY MK LBS/DY	*****	*****	REPORT DAILY MK MG/L		ONCE/ MONTH	GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Kathleen Welt Environmental Supervisor	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
		801 637-2422		93	04	27
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Dan V. Gray</i>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME/ Facility Name/Location
 NAME: COAL--EV SPUR
 ADDRESS: Box 1379
 PRICE: UT 84501
 FACILITY:
 LOCATION:
 APPROX: DAN L. GUY, MANAGER

NATIONAL POLLUTANT DISCHARGE (216)
 LARGE ELIMINATION SYSTEM (NPDES) MONITORING REPORT (DMR) (17-19)
 PERMIT NUMBER: UT5740005
 DISCHARGE NUMBER: 001 A
 MONITORING PERIOD:
 FROM: YEAR 93 MO 04 DAY 01 TO YEAR 93 MO 06 DAY 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

P - FINAL
 530 PND 00FL-DRNG DTCH/PRC RVR
 2nd Quarter
 MINOR
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW RATE		NO DISCHARGE			*****	*****	*****			
00056 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	REPORT	REPORT	GPD	*****	*****	*****	***	ONCE/ MONTH	BASED
PH	PERMIT REQUIREMENT	30 DA AV	DAILY HK		*****	*****	*****	****		
00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	6.5	*****	9.0		TWICE/ GRAB	
SOLIDS, TOTAL SUSPENDED	PERMIT REQUIREMENT	*****	*****	****	DAILY HK	*****	DAILY HK	50	MONTH	
00530 P 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****	***	*****	25	70		ONCE/ GRAB	
SOLIDS, SETTLEABLE	PERMIT REQUIREMENT	*****	*****	****	*****	30 DA AV	DAILY HK	MG/L	MONTH	
00545 R 0 0 SEE COMMENTS BELOW	SAMPLE MEASUREMENT	*****	*****	***	*****	*****	0.5		ONCE/ GRAB	
OIL AND GREASE FROM EXTR-GRAV MPT	PERMIT REQUIREMENT	*****	*****	****	*****	*****	DAILY HK	ML/L	MONTH	
00556 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	*****	10		ONCE/ GRAB	
IRON, TOTAL (AS FE)	PERMIT REQUIREMENT	*****	*****	****	*****	*****	DAILY HK	MG/L	MONTH	
01045 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	*****	2.0		ONCE/ GRAB	
FLOATING SOLIDS OR VISIBLE FOAM-VISUAL	PERMIT REQUIREMENT	*****	*****	****	*****	*****	DAILY HK	MG/L	MONTH	
45613 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	ES=1	*****	*****	*****	***	ONCE/ VISUAL	
	PERMIT REQUIREMENT	*****	*****	NO=0	*****	*****	*****	***	MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Kathleen Welt
 Environmental Supervisor
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Dan L. Guy
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 801 637-2422
 DATE: 93 7 27
 AREA CODE: NUMBER: YEAR: MO: DAY:

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUPFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT DOES NOT APPLY IN THE APPROPRIATE ROW.

PERMITTEE NAME / Facility Name/Location
 NAME JEAV COAL--EV SPUR
 ADDRESS P.O. BOX 137
PRICE UT 84501

NATIONAL POLLUTANT DISCHARGE MONITORING REPORT (NPDES) (DMR)
 (2-16) (17-19)
UFG040005 **001 A**
 PERMIT NUMBER DISCHARGE NUMBER

P - FINAL
 SPD PND DTPL-DRNG DTCH/PRC RVR

FACILITY
 LOCATION
 ATTN: DAN W. JUV, MANAGER

MONITORING PERIOD
 FROM YEAR 93 MO 04 DAY 01 TO YEAR 93 MO 06 DAY 30
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MINOR
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SANITARY WASTE DISCHARGE-ASSESSMENT	*****				*****	*****	*****			
45614 1 0 0	PERMIT REQUIREMENT	*****		DAILY MX YES=1 NO=0	*****	*****	*****	***	ONCE/ VISUAL MONTH	
EFFLUENT GROSS VALUE	*****				*****	*****				
SOLIDS, TOTAL DISSOLVED	*****				*****	*****	REPORT		ONCE/ GRAB MONTH	
70295 0 0 0	PERMIT REQUIREMENT	*****	2000	DAILY MX LBS/DY	*****	*****	DAILY MX	MG/L		
SEE COMMENTS 4P10H	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Kathleen Welt
 Environmental Supervisor
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 801 637-2422
 DATE 93 7 27
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.
 EPA Form 3320-1 (Rev. 9-88) Previous editions may be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) 00022/060899-1338 PAGE 2 OF

PERMITTEE NAME **MOUNTAIN COAL COMPANY**
 Facility Name (Local)
 ADDRESS **C/O BLACKHAWK ENGINEERING**
RT 1 BOX 146-H5
HELPER UT 86526

NATIONAL POLLUTANT DISCHARGE MONITORING REPORT (DMR)
 CHARGE ELIMINATION SYSTEM (NPDES)

UTG040005
 PERMIT NUMBER

001 A
 DISCHARGE NUMBER

MINOR

Form Approved.

OMB No. 2040-0004

F - FINAL SED PND OT F...
 OMB No. 2040-0004

FACILITY
 LOCATION

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
93	09	01	93	09	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

*** NO DISCHARGE ***
 NOTE: Read instructions before completing this form.

ATTN: KATHLEEN WELT

PARAMETER (12-17)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-8)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW RATE				(07)	*****	*****	*****			
00056 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30DA AVG	REPORT DAILY MX	GPD	*****	*****	*****	***	ONCE / MONTH	
PH	SAMPLE MEASUREMENT	*****	*****					(12)		
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	6.5 DAILY MN	*****	9.0 DAILY MX	SU	TWICE / GRAB MONTH	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****		*****			(19)		
00530 P 0 0 SEE COMMENTS BELOW SOLIDS, SETTLEABLE	PERMIT REQUIREMENT	*****	*****	***	*****	25 30DA AVG	70 DAILY MX	MG/L	ONCE / GRAB MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****		(25)		
00545 R 0 0 SEE COMMENTS BELOW OIL AND GREASE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	0.5 DAILY MX	ML/L	ONCE / GRAB MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****		(19)		
FREON EXTR-GRAV METH	SAMPLE MEASUREMENT	*****	*****		*****	*****		(19)		
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	10 DAILY MX	MG/L	ONCE / GRAB MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****		(19)		
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****		*****	*****		(19)		
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	1.0 DAILY MX	MG/L	ONCE / GRAB MONTH	
	SAMPLE MEASUREMENT	*****	*****	(26)	*****	*****		(19)		
SOLIDS, TOTAL DISSOLVED	SAMPLE MEASUREMENT	*****	*****		*****	*****		(19)		
70295 Q 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	***	*****	*****	REPORT DAILY MX	MG/L	ONCE / GRAB MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Kathleen Welt
 Environmental Supervisor
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Kathleen Welt
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
 801 637-2422
 AREA CODE NUMBER
 DATE
 93 10 28
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME _____ ADDRESS (Include Facility Name/Location if different) _____
 NAME _____
 ADDRESS _____
 FACILITY _____
 LOCATION _____

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)

PERMIT NUMBER _____ DISCHARGE NUMBER _____

Form Approved.
 OMB No. 2040-0004
 Approval expires 10-31-94

MONITORING PERIOD
 FROM YEAR MONTH DAY TO YEAR MONTH DAY
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-61)	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
	PERMIT REQUIREMENT	REPORT	REPORT		*****	*****	*****		ONCE/	GRAB
	PERMIT REQUIREMENT	3000 AVG	DAILY MX		*****	*****	*****		MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		TWICE/	GRAB
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		ONCE/	GRAB
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		ONCE/	GRAB
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		ONCE/	GRAB
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		MONTH	
	SAMPLE MEASUREMENT	*****	*****		*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		ONCE/	GRAB
	PERMIT REQUIREMENT	*****	*****		*****	*****	*****		MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER _____
 I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT _____
 TELEPHONE AREA CODE NUMBER _____ DATE YEAR MO DAY _____

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) _____
 EPA Form 3320-1 (Rev. 9-88) Previous editions may be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) PAGE 1 OF 1

Mountain Coal Company

West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015
Fax 303 929-5595



January 25, 1994

Mr. Donald A Hilden, PH.D., Chief
Permits and Compliance Section
Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870

Dear Mr. Hilden:

Enclosed please find Quarterly Discharge Monitoring Reports for Mountain Coal Company's UPDES Permit Numbers UTG040004, UTG040005, UTG040014 and UTG040015. These reports cover the Fourth Quarter of 1993.

If you have any questions or need any additional information, please contact me.

Respectfully,

Dan W. Guy for
Kathy Welt, MCC

Enclosures

DWG/db

cc: Donna Franklin, E.P.A.
Lowell Braxton, UDOGM
Kathy Welt, Mountain Coal Co.
File

Mountain Coal Company
West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015
Fax 303 929-5595



January 25, 1994

Ms. Donna Franklin
U.S.E.P.A., Region VIII
999 18th Street
Denver Place - Suite 500 WM-C
Denver, Colorado 80202-2405

Dear Ms. Franklin:

Enclosed please find Quarterly Discharge Monitoring Reports for Mountain Coal Company's UPDES Permit Numbers UTG040004, UTG040005, UTG040014 and UTG040015. These reports cover the Fourth Quarter of 1993.

If you have any questions or need any additional information, please contact me.

Respectfully,

Dan W. Guy for
Kathy Welt, MCC

Enclosures

DWG/db

cc: Lowell Braxton, UDOGM
Donald Hilden, D.E.Q.
Kathy Welt, Mountain Coal Co.
File

Mountain Coal Company
West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015
Fax 303 929-5595



January 25, 1994

Mr. Lowell Braxton, Administrator
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Braxton:

Enclosed please find Quarterly Discharge Monitoring Reports for Mountain Coal Company's UPDES Permit Numbers UTG040004, UTG040005, UTG040014 and UTG040015. These reports cover the Fourth Quarter of 1993.

If you have any questions or need any additional information, please contact me.

Respectfully,

A handwritten signature in cursive script, appearing to read "Dan W. Guy".

Dan W. Guy for
Kathy Welt, MCC

Enclosures

DWG/db

cc: Donna Franklin, E.P.A.
Donald Hilden, D.E.Q.
Kathy Welt, Mountain Coal Co.
File

PERMITTEE NAME: RESS (Include Facility Name/Location, if different)
 NAME: MOUNTAIN COAL COMPANY
 ADDRESS: C/O BLACKHAWK ENGINEERING
RT 1 BOX 146-H5
HELPER UT 84526
 FACILITY: _____
 LOCATION: _____

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)
 UTG040005
 PERMIT NUMBER
 001 A
 DISCHARGE NUMBER

MINOR Form Approved. OMB No. 2040-0004
 F - FINAL SED PND OTFL DRNG BTCHY PRC RVR

MONITORING PERIOD
 FROM YEAR MO DAY TO YEAR MO DAY
 93 12 01 TO 93 12 31
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

*** NO DISCHARGE [X] ***
 NOTE: Read instructions before completing this form.

ATTN: KATHLEEN WELT

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (52-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE				(07)	*****	*****	*****				
00056 1 0 0 EFFLUENT GROSS VALUE		REPORT 30DA AVG	REPORT DAILY MX	GPD	*****	*****	*****	****			
PH		*****	*****			*****		(12)			
00400 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	6.5 DAILY MN	*****	9.0 DAILY MX	SU		TWICE/GRAB MONTH	
SOLIDS, TOTAL SUSPENDED		*****	*****		*****			(19)			
00530 P 0 0 SEE COMMENTS BELOW		*****	*****	****	*****	25 30DA AVG	70 DAILY MX	MG/L		ONCE/GRAB MONTH	
SOLIDS, SETTLEABLE		*****	*****		*****	*****		(25)			
00545 R 0 0 SEE COMMENTS BELOW		*****	*****	****	*****	*****	0.5 DAILY MX	ML/L		ONCE/GRAB MONTH	
OIL AND GREASE FREON EXTR-GRAV METH		*****	*****		*****	*****		(19)			
00556 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	*****	*****	10 DAILY MX	MG/L		ONCE/GRAB MONTH	
IRON, TOTAL (AS FE)		*****	*****		*****	*****		(19)			
01045 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	*****	*****	1.0 DAILY MX	MG/L		ONCE/GRAB MONTH	
SOLIDS, TOTAL DISSOLVED		*****		(26)	*****	*****		(19)			
70295 Q 0 0 SEE COMMENTS BELOW		*****	2000 DAILY MX	LB S/ DY	*****	*****	REPORT DAILY MX	MG/L		ONCE/GRAB MONTH	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Kathleen Welt
 Environmental Supervisor
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 801 637-2422
 DATE: 94 01 25
 AREA CODE: 801 NUMBER: 637-2422 YEAR: 94 MO: 01 DAY: 25

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS - REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NA DRESS (Include Facility Name/ if different)
 NAME **MOUNTAIN COAL COMPANY**
 ADDRESS **C/O BLACKHAWK ENGINEERING**
RT 1 BOX 146-H5
HELPER UT 84526
 FACILITY _____
 LOCATION _____

NATIONAL POLL DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)
UTG040005 **001 A**
 PERMIT NUMBER DISCHARGE NUMBER

MINOR

Form Approved.

F - FINAL OMB No. 2040-0004
 SED PND OTF PDRS BTCHPAC RVR

MONITORING PERIOD
 FROM YEAR MO DAY TO YEAR MO DAY
93 11 01 **93 11 30**
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

*** NO DISCHARGE ***
 NOTE: Read instructions before completing this form.

ATTN: KETHLEEN WELT

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW RATE				(07)	*****	*****	*****				
00056 1 0 0 EFFLUENT GROSS VALUE		REPORT 30DA AVG	REPORT DAILY MX	GPD	*****	*****	*****	***			
PH		*****	*****			*****		(12)			
00400 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	6.5 DAILY MN	*****	9.0 DAILY MX	SU			
SOLIDS, TOTAL SUSPENDED		*****	*****		*****			(19)			
00530 P 0 0 SEE COMMENTS BELOW		*****	*****	****	*****	25 3QDA AVG	70 DAILY MX	MG/L			
SOLIDS, SETTLEABLE		*****	*****		*****	*****		(25)			
00545 R 0 0 SEE COMMENTS BELOW		*****	*****	****	*****	*****	0.5 DAILY MX	ML/L			
OIL AND GREASE		*****	*****		*****	*****		(19)			
FREON EXTR-GRAY METH		*****	*****	****	*****	*****	10 DAILY MX	MG/L			
00556 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	*****	*****		(19)			
IRON, TOTAL (AS FE)		*****	*****		*****	*****		(19)			
01045 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	*****	*****	1.0 DAILY MX	MG/L			
SOLIDS, TOTAL DISSOLVED		*****		(26)	*****	*****		(19)			
70295 Q 0 0 SEE COMMENTS BELOW		*****	2000 DAILY MX	LBS/DY	*****	*****	REPORT DAILY MX	MG/L			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Kathleen Welt
 Environmental Supervisor
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Kathleen Welt
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
 801 637-2422
 AREA CODE NUMBER
 DATE
 93 12 01
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS. REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

PERMITTEE NAME: MOUNTAIN COAL COMPANY
 ADDRESS: C/O BLACKHAWK ENGINEERING
 RT 1 BOX 146-H5
 HELPER UT 84526
 FACILITY:
 LOCATION:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 MONITORING REPORT (DMR)
 (2-16, 17-19)
 UT6040005
 PERMIT NUMBER
 001 A
 DISCHARGE NUMBER

MINOR
 Form Approved. OMB No. 2040-0004
 F - FINAL
 SED PND OTLE DRNS BTCHY PRC RVR

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	93	10	01		93	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

*** NO DISCHARGE [X] ***
 NOTE: Read instructions before completing this form.

ATTN: KATHLEEN WELT

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (64-67)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW RATE				(07)	*****	*****	*****				
00056 1 0 0 EFFLUENT GROSS VALUE	REPORT	30DA AVG	REPORT	DAILY MX	*****	*****	*****	****			
PH		*****	*****					(12)			
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	6.5	*****	9.0	DAILY MX	SU	THREE MONTHS	
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****		*****				(19)		
00530 P 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	25	70	30DA AVG	DAILY MX	MG/L	
SOLIDS, SETTLEABLE	SAMPLE MEASUREMENT	*****	*****		*****	*****			(25)		
00545 R 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	*****	****	*****	*****	0.5	DAILY MX	ML/L	ONE MONTH	
OIL AND GREASE FROM EXTR-GRAV METH	SAMPLE MEASUREMENT	*****	*****		*****	*****			(19)		
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	10	DAILY MX	MG/L	ONE MONTH	
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	*****	*****		*****	*****			(19)		
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	*****	1.0	DAILY MX	MG/L	ONE MONTH	
SOLIDS, TOTAL DISSOLVED	SAMPLE MEASUREMENT	*****		(26)	*****	*****			(19)		
70295 Q 0 0 SEE COMMENTS BELOW	PERMIT REQUIREMENT	*****	2000	DAILY MX	*****	*****	REPORT	DAILY MX	MG/L		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Kathleen Welt
 Environmental Supervisor
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Kathleen Welt
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 801 637-2422
 DATE: 93 11 27
 AREA CODE: 801
 NUMBER: 637-2422
 YEAR: 93
 MO: 11
 DAY: 27

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 TDS IS LIMITED TO ONE TON PER DAY FROM ALL OUTFALLS. DURING PRECIPITATION EVENTS, SETTLEABLE SOLIDS SHALL BE LIMITED INSTEAD OF TSS - REPORT "DOES NOT APPLY" IN THE APPROPRIATE ROW.

POND INSPECTIONS

E.I.S Hydrology
Pond Inspection Report

EH

POND: *CVI-2-3*

LOCATION: *CVI Pond*

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

Minor on inlet
of Pond 3 - *EH*

(4) Construction and Maintenance Performance Standards

Good Pond 1 & 2 *EH*
3" Tie - 3 Pond
18" Water

(5) Recommendations/Comments

No Discharge

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

12/9/95
Date

E.I.S Hydrology
Pond Inspection Report

POND: 224
PV-4

LOCATION: W. Spun

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance
Performance Standards

Good

(5) Recommendations/Comments

Water @ 4'
Frozen

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

Date 10/1/03

E.I.S Hydrology
Pond Inspection Report

POND: 5

LOCATION: A. Paul

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance
Performance Standards

Good

(5) Recommendations/Comments

Water level low
Frozen - Red markers
not readable

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

Date 10/6/93

E.I.S Hydrology
Pond Inspection Report

POND: 6

LOCATION: Deep Pond - W. Ball

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Deep Pond @ 40% Sed - 12" water</u>
(5) Recommendations/Comments	<u>No Discharge</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

12/23
Date

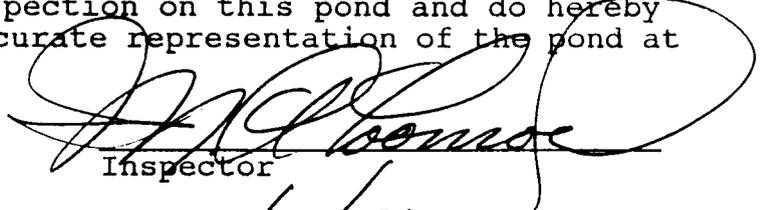
E.I.S Hydrology
Pond Inspection Report

POND: # 1

LOCATION: W. Lane

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Red marking not in evidence - (water may cover it)</u>
(5) Recommendations/Comments	<u>No Discharge 38" From Property</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.



Inspector

Date

7/27/93

E.I.S Hydrology
Pond Inspection Report

POND: # 2

LOCATION: at Spine

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Water level 24" From part top</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

J. M. [Signature]
Inspector

Date 7/27/93

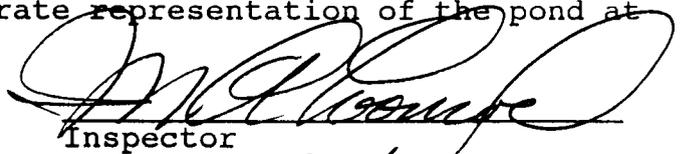
E.I.S Hydrology
Pond Inspection Report

POND: # 3

LOCATION: W Spence

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Water level 18" from top of post</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.


Inspector

Date 7/27/93

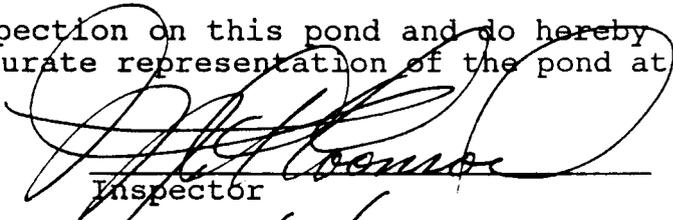
E.I.S Hydrology
Pond Inspection Report

POND: #4

LOCATION: Wagon

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Pond with 8" of H. water mark</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.


Inspector

7/27/95
Date

E.I.S Hydrology
Pond Inspection Report

POND: # 5

LOCATION: at farm

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good - Minimum upper 2/3 - less than 4" water</u>
(5) Recommendations/Comments	<u>No Discharges</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

7/27/93
Date

E.I.S Hydrology
Pond Inspection Report

POND: #6

LOCATION: W. Grove

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Leak in Cell # 1 @ 2</u> <u>No Discharge</u> <u>14" Water level</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

Date 7/27/93

E.I.S Hydrology
Pond Inspection Report

POND: 1, 2, 3

LOCATION: CV 4011

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance
Performance Standards

Good

(5) Recommendations/Comments

Nothing - Pond
is in Water

I have performed the above inspection on this pond and do hereby
certify it to be a true and accurate representation of the pond at
this time.

[Signature]
Inspector

4/4/20
Date

E.I.S Hydrology
Pond Inspection Report

POND: #4 (inlet from Wash Plant) LOCATION: CV 1222

ITEM	REMARKS
(1) Potential Safety Hazards	None
(2) Slope Stability	Stable
(3) Erosion	None
(4) Construction and Maintenance Performance Standards	Good - 10' Water
(5) Recommendations/Comments	None

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

6/9/20
Date

E.I.S Hydrology
Pond Inspection Report

POND: 005

LOCATION: 20 ft Pond

ITEM REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

Minor erosion noted
adjacent to Riprap

(4) Construction and Maintenance
Performance Standards

Good

(5) Recommendations/Comments

No further
work required

I have performed the above inspection on this pond and do hereby
certify it to be a true and accurate representation of the pond at
this time.

[Signature]
Inspector

Date 9/9/75

E.I.S Hydrology
Pond Inspection Report

POND: Old

LOCATION: W. 7th

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance
Performance Standards

Good - Red markers
with
walkways

(5) Recommendations/Comments

Total Slope
is Regulated

I have performed the above inspection on this pond and do hereby
certify it to be a true and accurate representation of the pond at
this time.

[Signature]
Inspector

6/2/25
Date

E.I.S Hydrology
Pond Inspection Report

POND 9104

LOCATION: W. Spurr

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None.

(4) Construction and Maintenance
Performance Standards

Ponds full -

(5) Recommendations/Comments

6 ducks - 1000
- on Pond 1 Western
Brib.

I have performed the above inspection on this pond and do hereby
certify it to be a true and accurate representation of the pond
at this time.

J. H. Coenoe
Inspector

3/10/93
Date

POND INSPECTION REPORT

POND: 2

LOCATION: ev Spere

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Lead-Ped Marker Under Water 15" From over-bow</u>
(5) Recommendations/Comments	<u>to Pond 3</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]

5/10/93
Date

POND INSPECTION REPORT

POND: 2

LOCATION: ev space

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good - Red Marker Under Water 12" From edge (see)</u>
(5) Recommendations/Comments	<u>No Pond 3</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]

9/10/93
Date

POND INSPECTION REPORT

POND: 3

LOCATION: C.V.

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>24" below seal Marked top</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

M. L. Collins

3/20/93
Date

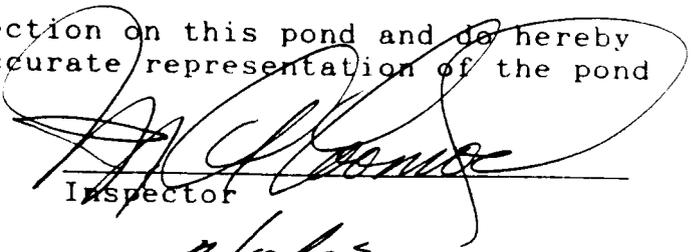
E.I.S Hydrology
Pond Inspection Report

POND: #5

LOCATION: CV Burns

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Pond full - Some flow to Pond 6</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.


Inspector

Date 3/10/93

E.I.S Hydrology
Pond Inspection Report

POND: # 5

LOCATION: CV Spire

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good - Seal Marked Fully exposed</u>
(5) Recommendations/Comments	<u>Removal until No Discharge CV-15</u>

I have performed the above inspection on this pond and do hereby certify it to be a true and accurate representation of the pond at this time.

[Signature]
Inspector

3/10/93
Date

**VEGETATION
MONITORING**

**VEGETATION MONITORING
OF THE
C.V. SPUR NO. 1 TEST PLOT**

1993



Prepared by

MT. NEBO SCIENTIFIC, INC.

330 East 400 South, Suite 6

Post Office Box 337

Springville, Utah 84663

(801) 489-6937

for

BLACKHAWK ENGINEERING

Route 1, Box 146-H5

Helper, Utah 84526

Patrick Collins, Ph.D.

Report Date: March 1994

**VEGETATION MONITORING
OF THE
C.V. SPUR NO.1 TEST PLOTS: 1993**

SCOPE

The following is a report to describe the sixth year results of ecological monitoring of the reclamation test plot at the C.V. Spur No. 1 site. This plot was established by Beaver Creek Coal Company (later Mountain Coal Company), Price, Utah. Monitoring methodologies were performed in accordance with the guidelines supplied by the State of Utah, Division of Oil, Gas and Mining (DOGGM).

INTRODUCTION

General Site Description

The C.V. Spur area is located approximately 4 miles southeast of Price in Carbon County,

Utah. As described in previous reports, the area is comprised of nearly 120 acres of disturbed land associated with coal cleaning activities. The disturbed areas lie within a salt desert community on soils derived from Mancos Shale.

Revegetation test plots designed to investigate different treatments were established in the fall of 1987 by Beaver Creek Coal Company. The total plot size is approximately 120 ft by 140 ft. This area was divided into sixteen 25 ft by 25 ft "subplots" to test different reclamation treatments. The treatments consisted of comparing controls, topsoil depths, coarse refuse mixtures and mulches. More specifically, the treatments investigated with their respective subplot numbers are listed below.

<u>Subplot Number</u>	<u>Treatment</u>
1, 9	6 in. soil, seed, (control)
2, 6	6 in. soil, seed, wood fiber mulch
3, 7	4 in. soil, 2 in. coal refuse, seed, wood fiber mulch
4, 8	3 in. soil, 3 in. coal refuse, seed, wood fiber mulch
5	6 in. soil, wood fiber mulch, (strip planting)
10, 14	6 in. soil, seed, hay mulch
11, 15	4 in. soil, 2 in. coal refuse, seed, hay mulch
12, 16	3 in. soil, 3 in. coal refuse, seed, hay mulch
13	6 in. soil, hay mulch, (strip planting)

Sampling in 1993

This was the sixth year of monitoring for the C.V. Spur No. 1 Test Plot. The sampling schedule indicated qualitative sampling only was to be conducted on the sixth year. Sampling methodologies and results are described below.

METHODS

Sampling was conducted prior to the first frost of the area. The date of sampling was September 22, 1993. Qualitative sampling was conducted on the site including: observer names, slope, exposure, animal use and disturbance, erosion problems, approximate living ground cover, and plant species observed. Additionally, pertinent notes about the plot were also taken at the time of sampling.

RESULTS

Results of the sampling are shown on the "Qualitative Sampling Data Sheet", included in this report. Color photographs of the test plot were included in this report.



QUALITATIVE SAMPLING DATA SHEET

SITE NAME: C.V. Spur #1

MINE SITE: Loadout area

COMPANY: Blackhawk Engineering/Mountain Coal Company

DATE: September 22, 1993

WORKERS: P. Collins, D. Collins

SLOPE: 1 deg.

EXPOSURE: North

ANIMAL USE/DISTURBANCE: Slight

EROSION: none

COVER: Approx. 35%, depending on cell (mostly weedy exotics)

DOMINANT PLANT SPECIES OBSERVED:

Atriplex canescens

Atriplex confertifolia

Ceratoides lanata

Bassia hyssopifolia

Halogeton glomeratus*

Salsola iberica*

Sphaeralcea grossulariifolia

Agropyron dasystachyum

Agropyron cristatum*

Hilaria jamesii

Orzopsis hymenoides

* Dominant species

- NOTES:
- 1) Plot #'s 3,4,7,8,11,12 looked best by cover of desirable species.
 - 2) The west side of the (whole) plot had a good representation of desirable species, but it still had > 50% weeds by cover.
 - 3) The east side was > 85% weedy species by cover.
 - 4) The single-species rows had > 90% weeds by cover.
 - 4) It looks like the grasses are producing a good supply of seed.

C. V. SPUR NO. 1 - VEGETATION TEST PLOTS



C. V. Spur No. 1 (1)



C. V. Spur No. 1 (2)



C. V. Spur No. 1 (3)



C. V. Spur No. 1 (4)

**VEGETATION MONITORING
OF THE
C.V. SPUR NO. 2 TEST PLOT**

1993



Prepared by

MT. NEBO SCIENTIFIC, INC.

330 East 400 South, Suite 6

Post Office Box 337

Springville, Utah 84663

(801) 489-6937

for

BLACKHAWK ENGINEERING

Route 1, Box 146-H5

Helper, Utah 84526

Patrick Collins, Ph.D.

Report Date: March 1994

**VEGETATION MONITORING
OF THE
C.V. SPUR NO. 2 TEST PLOT: 1993**

INTRODUCTION

In the fall of 1989, Beaver Creek Coal Company implemented a reclamation test plot on a disturbed area in the NE corner of the C.V. Spur Coal Processing and Loadout Facility property. *MT. NEBO SCIENTIFIC* was contracted to monitor this plot. Qualitative data were recorded in 1990, qualitative *and* quantitative data were compiled in the years' 1991 and 1992. This document reports the qualitative data from the 1993 sample year.

The test plot was divided into two larger sections for seeding mixtures, plus a middle section for single species. The plot was also fenced.

Section 1 (west)

This is a 50 ft. by 100 ft. area. Design included techniques proposed for final reclamation methodologies as outlined in Chapter 3, Section 3.5 of the MRP. A species list is included in this report.

Section 2 (east)

This area is another 50 ft. by 100 ft. section utilizing the same methods as Section 1 with the addition of 1 ton of 3rd crop alfalfa hay tilled into the top 6 inches of the soil. A species list is included in this report.

Section 3 (middle)

This section was apparently seeded with single species with two controls that were not seeded.

METHODS

Qualitative data were taken on the subplots of the C.V. Spur No. 2 Test Plot. Sampling was accomplished on September 22, 1993. Sampling methods for the qualitative data were identical to previous years' to make comparisons more appropriate.

Because this was the first year of monitoring, only qualitative information was recorded. A qualitative data sheet for this site is included in this report and provides the following information: site name, general area, sample date, observers, slope, exposure, animal disturbance,

was included in this report. Below is the list of plant species planted on the C.V. Spur No. 2 Test erosion damage, cover, and other pertinent notes. Color photographs were taken of the plot and Plot.

Section 1 & 2 (East & West) Plots

Rate #PLS/A

SHRUBS

<u>Atriplex confertifolia</u>	2.0
<u>Eurotia lanata</u>	1.0

FORBS

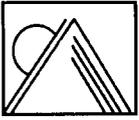
<u>Sphraeralcea grossulariaefolia</u>	.25
<u>Helianthus annuus</u>	3.0
<u>Penstemon palmeri</u>	.5
<u>Melilotus officinalis</u>	1.0
<u>Kochia prostrata</u>	1.0

GRASSES

<u>Agropyron dasystachyum</u>	2.0
<u>Agropron cristatum ephraim</u>	2.0
<u>Orysopsis hymenoides</u>	4.0
<u>Agropyron cristatum fairway</u>	2.0
<u>Elymus junceus</u>	1.0
<u>Sitanion hystrix</u>	.5

Section 3 (middle section)

Single spp. planted in 10 ft. strips: clover, winterfat, globemallow, shadscale, sunflower, kochia, Russian wildrye, crested wheatgrass, squirreltail, thickspike, Palmer penstemon, Indian ricegrass.



QUALITATIVE SAMPLING DATA SHEET

1993

SITE NAME: C.V. SPUR NO. 2 TEST PLOT

AREA: Castle Valley Spur Coal Processing and Loadout Facility

DATE: September 22, 1993

WORKERS: P. Collins, D. Collins

SLOPE: 1-2 deg.

EXPOSURE: level

SIZE: .25 Acre

ANIMAL USE/DISTURBANCE: none observed

EROSION: Negligible

COVER: 40% (east side); 30% (west side)

DOMINANT PLANT SPECIES OBSERVED:

Kochia scoparia^{°w}

Iva axillaris

Halogeton glomeratus

Sisymbrium altissimum

Agropyron dasystachyum

Agropyron cristatum[°]

Elymus cinereus

[°] dominate species on the east side

^w dominate species on the west side

NOTES:

Section 1 (west side)

The west side plot had a few desirable species, but was mostly comprised of weedy exotics.

Section 2 (east side)

The east side had many more desirable species than the west. There was actually a fair stand of grasses established, but no desirable forb or shrubs species. Results indicate much better growth of desirable species this year when compared to last.

Section 3 (middle)

The single-species rows had no desirable species growing, only weedy exotics.

C. V. SPUR NO. 2 - VEGETATION TEST PLOTS



C. V. Spur No. 2 - West Side (1)



C. V. Spur No. 2 - West Side (2)



C. V. Spur No. 2 - East Side (1)



C. V. Spur No. 2 - East Side (2)

**ANNUAL
IMPOUNDMENT
CERTIFICATIONS**

MOUNTAIN COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: SED. POND 1

LOCATION: C.V. SPUR

IMPOUNDMENTS

(1) Stability	<u>Slopes Stable.</u>
(2) Structural Weakness/Erosion	<u>Incised Pond.</u>
(3) Potential Safety Hazards	<u>None Noted.</u>
(4) Depth of Impounded Water	<u>None Noted.</u>
(5) Existing Storage Capacity	<u>42"</u>
(6) Monitoring Procedures	<u>0.56 Ac. Ft.</u>
	<u>Quarterly Inspection.</u>

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	<u>5486.6</u>
(8) Sediment Cleanout Level (Elev.)	<u>5487.2</u>
(9) Principle Spillway (Elev.)	<u>5491.8</u>
(10) Emergency Spillway (Elev.)	<u>5491.8</u>
(11) Existing Sediment Capacity (To Cleanout)	<u>0.24 Ac. Ft.</u>

GENERAL

(12) Comments/Recommendations	<u>Pond O.K.</u>
	<u>No Discharge.</u>

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

11-04-93
(Date)



MOUNTAIN COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: SED. POND 2

LOCATION: C.V. SPUR

IMPOUNDMENTS

(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	Incised Pond.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	None Noted.
(5) Existing Storage Capacity	N/A - Dry
(6) Monitoring Procedures	0.96 Ac. Ft.
	Quarterly Inspection.

SEDIMENT PONDS ONLY

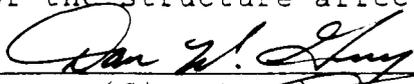
(7) Sediment Accumulation (Elev.)	5484.3
(8) Sediment Cleanout Level (Elev.)	5485.5
(9) Principle Spillway (Elev.)	5492.3
(10) Emergency Spillway (Elev.)	5492.3
(11) Existing Sediment Capacity (To Cleanout)	0.24 Ac. Ft.

GENERAL

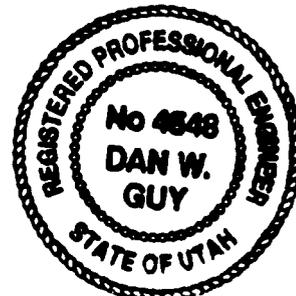
(12) Comments/Recommendations	Pond Dry.
	Marker Installed 1993
	No Discharge.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.


(Signature)

11-04-93
(Date)



MOUNTAIN COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: SED. POND 3

LOCATION: C.V. SPUR

IMPOUNDMENTS

(1) Stability	<u>Slopes Stable.</u>
(2) Structural Weakness/Erosion	<u>Incised Pond.</u>
(3) Potential Safety Hazards	<u>None Noted.</u>
(4) Depth of Impounded Water	<u>18"</u>
(5) Existing Storage Capacity	<u>0.76 Ac. Ft.</u>
(6) Monitoring Procedures	<u>Quarterly Inspection.</u>

SEDIMENT PONDS ONLY

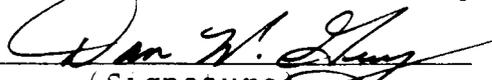
(7) Sediment Accumulation (Elev.)	<u>5484.0</u>
(8) Sediment Cleanout Level (Elev.)	<u>5484.8</u>
(9) Principle Spillway (Elev.)	<u>5491.4</u>
(10) Emergency Spillway (Elev.)	<u>5491.4</u>
(11) Existing Sediment Capacity (To Cleanout)	<u>0.16 Ac. Ft.</u>

GENERAL

(12) Comments/Recommendations	<u>Marker Installed 1993.</u>
	<u>No Discharge.</u>

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.


(Signature)

11-04-93
(Date)



MOUNTAIN COAL COMPANY
1993 ANNUAL POND INSPECTION REPORT

POND: PLANT OVERFLOW (#4)

LOCATION: C.V. SPUR

IMPOUNDMENTS

(1) Stability	<u>Slopes Stable.</u>
(2) Structural Weakness/Erosion	<u>Incised Pond.</u>
(3) Potential Safety Hazards	<u>None Noted.</u>
(4) Depth of Impounded Water	<u>None Noted.</u>
(5) Existing Storage Capacity	<u>60"</u>
(6) Monitoring Procedures	<u>0.40 Ac. Ft.</u>
	<u>(Not a Sed. Pond).</u>
	<u>Quarterly Inspection.</u>

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	<u>N/A</u>
(8) Sediment Cleanout Level (Elev.)	<u>N/A</u>
(9) Principle Spillway (Elev.)	<u>N/A</u>
(10) Emergency Spillway (Elev.)	<u>N/A</u>
(11) Existing Sediment Capacity (To Cleanout)	<u>N/A</u>

GENERAL

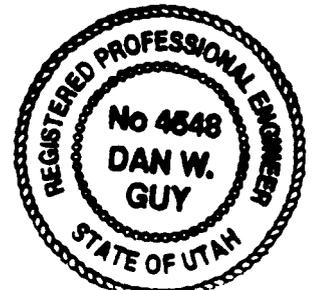
(12) Comments/Recommendations	<u>Pond Cleaned 1993.</u>
	<u>Overflow to Sed. Pond</u>
	<u>6 - then recirculated</u>

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Dan W. Guy
(Signature)

11-04-93
(Date)



MOUNTAIN COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: SED. POND 5

LOCATION: C.V. SPUR

IMPOUNDMENTS

(1) Stability	Slopes Stable.
(2) Structural Weakness/Erosion	Incised Pond.
(3) Potential Safety Hazards	None Noted.
(4) Depth of Impounded Water	15"
(5) Existing Storage Capacity	3.53 Ac. Ft.
(6) Monitoring Procedures	Quarterly Inspection.

SEDIMENT PONDS ONLY

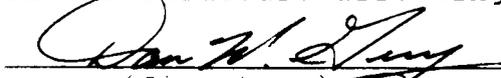
(7) Sediment Accumulation (Elev.)	5474.0
(8) Sediment Cleanout Level (Elev.)	5475.2
(9) Principle Spillway (Elev.)	5482.0
(10) Emergency Spillway (Elev.)	5482.0
(11) Existing Sediment Capacity (To Cleanout)	0.60 Ac. Ft.

GENERAL

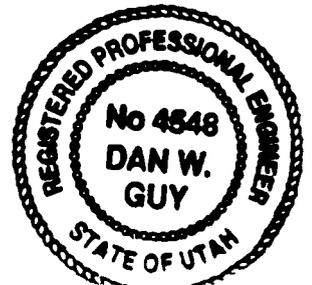
(12) Comments/Recommendations	Marker Installed 1993.
	Pump Installed for
	Dewatering. No Disch.

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.


(Signature)

11-04-93
(Date)



MOUNTAIN COAL COMPANY
1993 ANNUAL POND INSPECTION REPORT

POND: SED. POND 6

LOCATION: C.V. SPUR

IMPOUNDMENTS

(1) Stability	<u>Slopes Stable.</u>
	<u>Incised Pond.</u>
(2) Structural Weakness/Erosion	<u>None Noted.</u>
(3) Potential Safety Hazards	<u>None Noted.</u>
(4) Depth of Impounded Water	<u>16"</u>
(5) Existing Storage Capacity	<u>1.61 Ac. Ft.</u>
(6) Monitoring Procedures	<u>Quarterly Inspection.</u>
	<u>U.P.D.E.S. Discharge.</u>

SEDIMENT PONDS ONLY

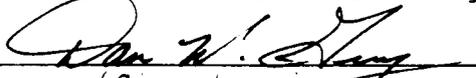
(7) Sediment Accumulation (Elev.)	<u>5474.3</u>
(8) Sediment Cleanout Level (Elev.)	<u>5474.7</u>
(9) Principle Spillway (Elev.)	<u>5480.3</u>
(10) Emergency Spillway (Elev.)	<u>5480.3</u>
(11) Existing Sediment Capacity (To Cleanout)	<u>0.16 Ac. Ft.</u>

GENERAL

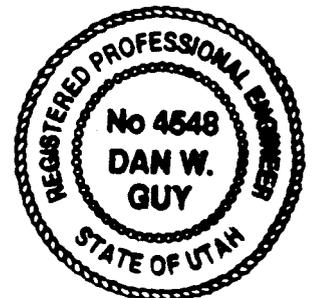
(12) Comments/Recommendations	<u>Open Channel Spillway</u>
	<u>added and Dikes Re-</u>
	<u>built-1992. No Disch.</u>
	<u>Marker Installed 1993</u>

STATEMENT

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.


(Signature)

11-04-93
(Date)



**REFUSE
PILE
INSPECTIONS**

REFUSE PILE INSPECTION REPORT

MSHA SITE #1211-UT-9-0034

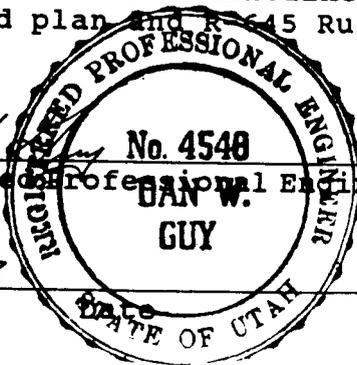
C.V. SPUR

QUARTER 4/93

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None Noted.</u>
(2) Slope Stability	<u>Stable - Beam O.K.</u>
(3) Removal of Topsoil and Organics	<u>N/A - No new removal necessary. Test Plot - O.K.</u>
(4) Construction and Maintenance Performance Standards	<u>In compliance. Minor ditches forming on NE end of top.</u>
(5) Recommendations	<u>Blade out ditches on top.</u>

I have performed the above inspection on this refuse pile and do hereby certify it to be a true and accurate representation of the pile at this time. The pile has been constructed and maintained as designed and in accordance with the approved plan and R-645 Rules.

Dan W. Guy
Registered Professional Engineer
12/15/93



The seal is circular with a double border. The outer border contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF UTAH" at the bottom. The inner circle contains the text "No. 4548" at the top, "DAN W. GUY" in the center, and "Registered Professional Engineer" at the bottom.

Note: This pile contains no underdrains or protective filter systems.

REFUSE PILE INSPECTION REPORT

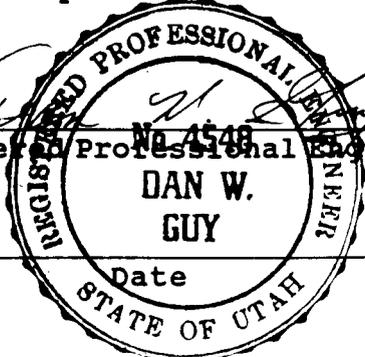
MSHA SITE #1211-UT-9-0034

C.V. SPUR

QUARTER 3/93

ITEM	REMARKS
(1) Potential Safety Hazards	<i>None Noted.</i>
(2) Slope Stability	<i>Stable - Berm O.K.</i>
(3) Removal of Topsoil and Organics	<i>N/A - No new removal necessary. Test Plot - O.K.</i>
(4) Construction and Maintenance Performance Standards	<i>O.K. - Well graded & drained. Ditches, culvert and berm O.K.</i>
(5) Recommendations	<i>None.</i>

I have performed the above inspection on this refuse pile and do hereby certify it to be a true and accurate representation of the pile at this time. The pile has been constructed and maintained as designed and in accordance with the approved plan and R-645 Rules.



 Registered Professional Engineer

 9/16/93

 Date

Note: This pile contains no underdrains or protective filter systems.

REFUSE PILE INSPECTION REPORT

MSHA SITE #1211-UT-9-0034

C.V. SPUR

QUARTER 2/93

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None Noted.</u>
(2) Slope Stability	<u>Stable - Berm intact & strengthened near culvert.</u>
(3) Removal of Topsoil and Organics	<u>N/A - No new removal necessary. Test plot O.K.</u>
(4) Construction and Maintenance Performance Standards	<u>O.K. - Drainage, berm, culvert and compaction all look good.</u>
(5) Recommendations	<u>Grade out small mounds of material in middle of pile. Overall - Looks good.</u>

I have performed the above inspection on this refuse pile and do hereby certify it to be a true and accurate representation of the pile at this time. The pile has been constructed and maintained as designed and in accordance with the approved plan and R-645 Rules.

Dan W. Guy
Registered Professional Engineer
No. 4548
DAN W. GUY
Date 6/29/93
REGISTERED PROFESSIONAL ENGINEER
STATE OF UTAH

Note: This pile contains no underdrains or protective filter systems.

REFUSE PILE INSPECTION REPORT

MSHA SITE #1211-UT-9-0034

C.V. SPUR

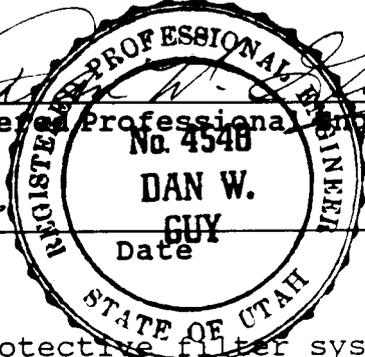
QUARTER

1/93

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None Noted.</u>
(2) Slope Stability	<u>Stable - Ben Detect.</u> <u>Minor rilling on lower</u> <u>side slopes.</u>
(3) Removal of Topsoil and Organics	<u>N/A - Test Plot Data</u> <u>for 1992 received.</u>
(4) Construction and Maintenance Performance Standards	<u>O.K. - Pile draining</u> <u>good. Culvert open.</u> <u>Compaction O.K.</u>
(5) Recommendations	<u>Pile looks good considering</u> <u>the wet winter & spring.</u> <u>Hot & muggy - rain in A.M.</u>

I have performed the above inspection on this refuse pile and do hereby certify it to be a true and accurate representation of the pile at this time. The pile has been constructed and maintained as designed and in accordance with the approved plan and R-645 Rules.

Dan W. GUY
Registered Professional Engineer
No. 4548
DAN W. GUY
Date
3/30/93



Note: This pile contains no underdrains or protective filter systems.

**ROAD
CERTIFICATION**

PRIMARY ROAD CERTIFICATION

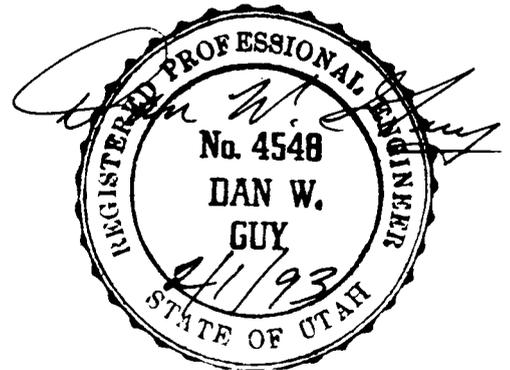
Company: Mountain Coal Company

Location: Castle Valley Spur

Primary Road Location: 1-From Gate to Loadout.

2-Refuse Haul Road.

I hereby certify that the above listed Primary Roads at C.V. Spur have been constructed in accordance with the requirements of R645-301-534.200 and R645-301-742.420 and the approved permit design. As-Constructed plans for the roads are shown on Plate 3-4 of the approved Mining and Reclamation Permit.



Note: All other roads at C.V. Spur are Ancillary Roads.

**COAL / REFUSE
ANALYSES**



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

SINCE 1908

Member of the SGS Group (Société Générale de Surveillance)

March 25, 1993

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

▶ MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample reported to us Coal

Sample taken at CV SPUR

9 Mine
73.0 lbs.
Top Size 2"
1 Bag

Sample taken by Mountain Coal

Date sampled March 9, 1993

Date received March 10, 1993

Analysis report no. 59-157626

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS.

pH 9.13 units
Sulfur % 0.39
Neutralization Potential 5.64 tons CaCO₃/ 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory





SINCE 1908

COMMERCIAL TESTING & ENGINEERING CO.

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March 25, 1993

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P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

► MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample reported to us Coal

Sample taken at CV SPUR

Genwal
78.5 lbs.

Sample taken by Mountain Coal

Top Size 2"
1 Bag

Date sampled March 9, 1993

Date received March 10, 1993

Analysis report no. 59-157627

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS.

pH	8.55 units
Sulfur %	0.28
Neutralization Potential	18.37 tons CaCO ₃ / 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory





SINCE 1908

COMMERCIAL TESTING & ENGINEERING CO.

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P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

March 25, 1993

▶ MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample Coal
reported to us

Sample taken at CV SPUR

Co-op
76.5 lbs.
Top Size 2"
1 Bag

Sample taken by Mountain Coal

Date sampled March 9, 1993

Date received March 10, 1993

Analysis report no. 59-157628

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS.

pH 8.34 units
Sulfur % 0.22
Neutralization Potential 19.65 tons CaCO₃/ 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory





COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

Member of the SGS Group (Societe' Generale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

March 25, 1993

▶ MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample Coal
reported to us

Sample taken at CV SPUR

8 Mine
66.75 lbs.
Top Size 2"
1 Bag

Sample taken by Mountain Coal

Date sampled March 9, 1993

Date received March 10, 1993

Analysis report no. 59-157629

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS.

pH	7.78 units
Sulfur %	0.35
Neutralization Potential	6.42 tons CaCO ₃ / 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory





COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

SINCE 1908

Member of the SGS Group (Société Générale de Surveillance)

March 25, 1993

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

▶ MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample Coal
reported to us

Sample taken at CV SPUR

Refuge
71.0 lbs.
Top Size 2"
1 Bag

Sample taken by Mountain Coal

Date sampled March 9, 1993

Date received March 10, 1993

Analysis report no. 59-157630

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS

pH	6.38 units
Conductivity	3430 mmhos/cm
Water Extractable Selenium	1.5 ug/g
Water Extractable Boron	4.6 ug/g
Sodium Adsorption Ratio	0.139
Neutralization Potential	4.32 tons CaCO ₃ / 1000 tons
Acid-Base Potential	-13.24 tons CaCO ₃ / 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory





SINCE 1908

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

Member of the SGS Group (Société Générale de Surveillance)

March 25, 1993

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

▶ MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample reported to us Coal

Sample taken at CV SPUR

Sunnyside
78.5 lbs.
Top Size 2"
1 Bag

Sample taken by Mountain Coal

Date sampled March 9, 1993

Date received March 10, 1993

Analysis report no. 59-157631

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS.

pH	8.89 units
Sulfur %	0.29
Neutralization Potential	5.48 tons CaCO ₃ / 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory





COMMERCIAL TESTING & ENGINEERING CO.

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SINCE 1908

Member of the SGS Group (Société Générale de Surveillance)

March 25, 1993

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P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

▶ MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample reported to us

Coal

Sample taken at CV SPUR

7 Mine

Sample taken by Mountain Coal

64.5 lbs.

Top Size 2"

Date sampled March 9, 1993

1 Bag

Date received March 10, 1993

Analysis report no. 59-157632

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS.

pH	7.92 units
Sulfur %	0.49
Neutralization Potential	21.92 tons CaCO ₃ / 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

[Signature]
Manager, Huntington Laboratory





SINCE 1908

COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

Member of the SGS Group (Société Générale de Surveillance)

March 25, 1993

PLEASE ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020, HUNTINGTON, UT 84528
TEL: (801) 653-2311
FAX: (801) 653-2436

▶ MOUNTAIN COAL CO.
P.O. Box 1378
Price Utah 84501

Sample identification by
Mountain Coal Co.

Kind of sample reported to us Coal

Sample taken at CV SPUR

Sufco
74.75 lbs.
Top Size 2"
1 Bag

Sample taken by Mountain Coal

Date sampled March 9, 1993

Date received March 10, 1993

Analysis report no. 59-157633

SOIL ANALYSIS

RESULTS ARE REPORTED AS INDICATED, ON AN AS RECEIVED BASIS.

pH	8.45 units
Sulfur %	0.22
Neutralization Potential	18.99 tons CaCO ₃ / 1000 tons

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, Huntington Laboratory

