

MOUNTAIN COAL COMPANY
1991 ANNUAL REPORT
TRAIL MOUNTAIN MINE

Annual Reports Review

15/09

Mine Name Trail Mountain Mine

Date Submitted April 15, 1992

Sections to be reviewed:

Cover Sheet and Mine Sequence Map - Jesse
Date Reviewed _____

Summarized Water Monitoring Data - Ken
Date Reviewed Gave disks to Ken
4/17

Precipitation and Climatological Data - Ken
Date Reviewed _____

Subsidence Monitoring Report - Jesse
Date Reviewed _____

Vegetation Data and Revegetation Success Monitoring - Susan
Date Reviewed _____

Annual Impoundment Certification - Jesse
Date Reviewed _____

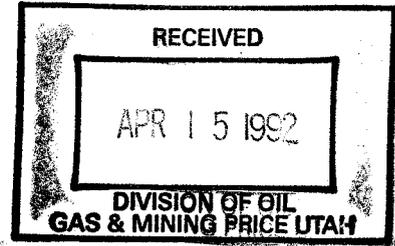
Annual Overburden, Spoil, Refuse, Roof, Floor, etc - Henry
Date Reviewed _____

Mountain Coal Company

Trail Mountain Mine
Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050 (Price Office)
801 637-5203 (Mine Office)
801 748-2140 (Mine Site)



April 8, 1992



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

Re: 1991 Annual Report
Trail Mountain Mine
ACT/015/009
Emery County, Utah

Dear Mr. Braxton:

Enclosed is the Annual Report for Coal Mining and Reclamation Operations for 1991 for the Trail Mountain Mine.

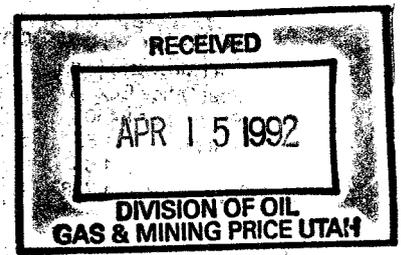
If you have any questions or need any further information, please let me know.

Respectfully,

Dan W. Guy,
Manager, Permitting & Compliance

DWG/cr

cc: Rick Parkins
Johnny Coffey



MOUNTAIN COAL COMPANY

1991 ANNUAL REPORT

TRAIL MOUNTAIN MINE

Mountain Coal Company

Trail Mountain Mine
Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050 (Price Office)
801 637-5203 (Mine Office)
801 748-2140 (Mine Site)



April 8, 1992

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

Re: 1991 Annual Report
Trail Mountain Mine
ACT/015/009
Emery County, Utah

Dear Mr. Braxton:

Enclosed is the Annual Report for Coal Mining and Reclamation Operations for 1991 for the Trail Mountain Mine.

If you have any questions or need any further information, please let me know.

Respectfully,

A handwritten signature in cursive script, appearing to read "Dan W. Guy". The signature is written in black ink and is positioned above the typed name.

Dan W. Guy,
Manager, Permitting & Compliance

DWG/cr

cc: Rick Parkins
Johnny Coffey



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter

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

March 27, 1992

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

Dear Mr. Guy:

Re: Extension Granted, Annual Reports, Gordon Creek #2, #7, and #8 Mine, ACT/007/016, Gordon Creek #3 and #6 Mine, ACT/007/017, C.V. Spur Loadout and Processing Facility, ACT/007/022, Huntington #4 Mine, ACT/015/004, Trail Mountain Mine, ACT/015/009, Folder #3, Carbon and Emery County, Utah

An extension is granted per your verbal request for submittal of the annual reports for the above-noted coal mining and reclamation operations until April 15, 1992.

Sincerely,

A handwritten signature in cursive script that reads "Pamela Grubaugh-Littig".

Pamela Grubaugh-Littig
Permit Supervisor

COAL MINING AND RECLAMATION OPERATIONS FOR 1991

(Must be submitted to the Division by March 31, 1992)

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: Trail Mountain Mine

Mailing Address: P.O. Box 1378, Price, Utah 84501

Company Representative: Dan W. Guy

Resident Agent: Dan W. Guy

Permit Number: ACT/015/009

MSHA ID Number: 42-01211

Date of Initial Permanent Program Permit: 5/11/78

Date of Permit Renewal: 9/12/91 (Expires 2/20/95)

Quantity of Coal Mined (tonnage) 1991: 615,295 Tons

Attach Updated Mine Sequence Map (Enclosed)
(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. Summarized Water Monitoring Data: (Enclosed)
1. List of monitoring points and their locations and respective frequencies of monitoring (monthly, quarterly, etc.) as approved in the PAP
 2. UPDES permit number, UPDES discharge points and their locations
 3. Summary of findings based on water monitoring during 1991
 4. Submit water monitoring as database files (ASCII, Lotus, dBase, etc.)
(Please contact Ken Wyatt if you have any questions)
- B. Precipitation or Other Climatological Data (please submit as database files: ASCII, Lotus, dBase, etc.-- Contact Ken Wyatt if you have any questions)

C. 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**
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 (R614-301-525.300)**

D. 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**
4. **Describe any seeding done on site during the current year**

E. Annual Impoundment Certification, (R614-301-514.312) 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**
6. **Any other aspects of the structure affecting stability**

Suggested form enclosed

F. 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**
 - iii. **Analytical method(s) employed and references. Include the soil/spoil: water ratio.**
4. **Summary of findings based on monitoring**

G. Any Other Information Required to be Submitted as Specified in your Permit Application Package and Permit

jbe
A:/Annual

PERMIT

FEDERAL

PERMIT
ACT/015/009

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 (five-year renewal), ACT/015/009, 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 Trail Mountain #9 Mine. Mountain Coal Company is the lessee of federal coal leases U-49332 and U-082996, State Mineral Lease ML-22603 and UTU-64375, and the owner/lessee of certain fee-owned parcels. A Surety Bond is filed with the Division in the amount of \$463,711, 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 Trail Mountain #9 Mine, situated in the State of Utah, Emery County, and located:

Township 17 South, Range 6 East, SLM

Section 25: S1/2 NW1/4, W1/2 SW1/4, W1/2 E1/2 SW1/4, SW1/4 SE1/4, E1/2 E1/2 SW1/4; Begin at the point of SW corner of NW1/4 SE1/4, thence North 160 Rods, thence East 44 Rods to center of Cottonwood Creek, Southward along creek to a point 76 Rods east of the beginning, thence West 76 Rods to the Point of Beginning.

- Section 26: SE1/4 NE1/4, E1/2 SW1/4 NE1/4, E1/2 SE1/4,
E1/2 W1/2 SE1/4, S1/2 SW1/4, W1/2 SW1/4
SE1/4
- Section 27: S1/2 S1/2
- Section 34: All
- Section 35: Lots 3 and 4, NE1/4, SE1/4, SW1/4, S1/2 NW1/4
- Section 36: All

Township 18 South, Range 6 East, SLM

- Section 1: Lots 1-8, S1/2 N1/2, E1/2 NE1/4 SW1/4, E1/2
NW1/4 NE1/4 SW1/4, N1/2 NW1/4 NE1/4 SE1/4,
N1/2 NW1/4 SE1/4
- Section 2: Lots 1-8, S1/2 N1/2, N1/2 NE1/4 SW1/4, N1/2
SW1/4 NE1/4 SW1/4, SE1/4 NE1/4 SW1/4, NW1/4
NE1/4 SE1/4, N1/2 SW1/4 NE1/4 SE1/4, N1/2
NW1/4 SE1/4, N1/2 S1/2 NW1/4 SE1/4
- Section 3: Lots 1, 2, and 8, NE1/4 SE1/4 NE1/4

Township 18 South, Range 7 East, SLM

- Section 6: Lots 4-7, W1/2 SE1/4 NW1/4, W1/2 E1/2 SW1/4

This legal description is for the permit area of the Trail Mountain #9 Mine. 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 February 20, 1995.
- 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.

Sec. 16 APPEALS - The permittee shall have the right to appeal as provided for under R614-300-200.

The above conditions (Secs. 1-16) 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 the Division and the permittee at any time to adjust to changed conditions or to correct an oversight. The Division may amend these conditions at any time without the consent of the permittee in order to make them consistent with any federal or state statutes and any regulations.

THE STATE OF UTAH

By: 

Date: 9-12-91

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



**Authorized Representative of
the Permittee**

Date: 10/15/91



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

May 21, 1991

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

Dear Mr. Pick:

Re: Federal Lease Tract Approval, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #3, Emery County, Utah

Enclosed please find two (2) copies of the permit for the Federal Lease Tract Addition for the Trail Mountain #9 Mine. Please sign both copies and return one to the Division.

Thank you for your continued cooperation.

Best Regards,

Dianne R. Nielson
Director

jbe
Enclosure
cc: L. Braxton
P. Grubaugh-Littig
AT015009.01

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/015/009, is issued for the state of Utah by the Utah Division of Oil, Gas and Mining (Division) to:

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

for the Trail Mountain #9 Mine. A Surety Bond is filed with the Division in the amount of \$463,711, 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 Trail Mountain #9 Mine, situated in the state of Utah, Emery County, and located:

The legal Description of Federal Lease Tract UTU-64375 is:

Township 17 South, Range 6 East, SLM

Section 26: S1/2 SW1/4, W1/2 SW1/4 SE1/4;

Section 27: S1/2 S1/2;

Section 34: All;

Section 35: Lots 3 and 4, W1/2 SW1/4 NE1/4, S1/2 NW1/4, SW1/4, W1/2 W1/2 SE1/4.

Township 18 South, Range 6 East, SLM

Section 1: Lots 1-8, S1/2 N1/2, E1/2 NE1/4 SW1/4, E1/2 NW1/4 NE1/4 SW1/4, N1/2 NW1/4 NE1/4 SE1/4, N1/2 NW1/4 SE1/4;

Section 2: Lots 1-8, S1/2 N1/2, N1/2 NE1/4 SW1/4, N1/2 SW1/4 NE1/4 SW1/4, SE1/4 NE1/4 SW1/4, NW1/4 NE1/4 SE1/4, N1/2 SW1/4 NE1/4 SE1/4, N1/2 NW1/4 SE1/4, N1/2 S1/2 NW1/4 SE1/4;

Section 3: Lots 1, 2, and 8, NE1/4 SE1/4 NE1/4.

Township 18 South, Range 7 East, SLM

Section 6: Lots 4-7, W1/2 SE1/4 NW1/4, W1/2 E1/2 SW1/4

This legal description is for the permit area of the Trail Mountain #9 Mine. 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 May 15, 1991, and expires on February 20, 1995.
- 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.

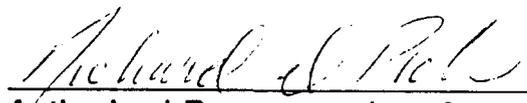
- Sec. 15 CULTURAL RESOURCES** - If during the course of mining operations, previously unidentified cultural resources are discovered, the permittee shall ensure that the site(s) is not disturbed and shall notify the Division. The Division, after coordination with OSM, shall inform the permittee of necessary actions required. The permittee shall implement the mitigation measures required by Division within the time frame specified by Division.
- Sec. 16 APPEALS** - The permittee shall have the right to appeal as provided for under R614-300-200.
- Sec. 17 SPECIAL CONDITIONS** - There is a special condition associated with this permitting action, as described in Attachment A.

The above conditions (Secs. 1-17) 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 the Division and the permittee at any time to adjust to changed conditions or to correct an oversight. The Division may amend these conditions at any time without the consent of the permittee in order to make them consistent with any federal or state statutes and any regulations.

THE STATE OF UTAH

By: 
Date: 5-15-91

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


Authorized Representative of
the Permittee
Date: 5-24-91

ATTACHMENT A

Special Condition, R614-301-731.200 Water Monitoring

The applicant must monitor quality and quantity of the Star Point aquifer at a point where the flow in the aquifer leaves the permit area. The most likely place to develop this monitoring site is in the area near DH-5 (Figure 6-4). The applicant will be required to develop a well to monitor aquifer parameters, seasonal fluctuation, mining influence and hydrologic tests. The applicant will be required to construct the monitoring well within 90 days of permit approval. This information is requested in accordance with the requirements for water monitoring regulations R614-301-731.200 through R614-301-731.215.



United States Department of the Interior

OFFICE OF SURFACE MINING
RECLAMATION AND ENFORCEMENT
BROOKS TOWERS
1020 15TH STREET
DENVER, COLORADO 80202



May 20, 1991

Mr. Dan Guy
Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

The Assistant Secretary, Land and Minerals Management, Department of the Interior, approved on May 14, 1991, the Trail Mountain #9 mine mining plan for Federal lease U-64375. The mining plan approval authorized mining of about 13,200,000 tons of Federal coal in 2,631 acres of Federal lease U-64375. Approval of this mining plan supplements the Trail Mountain #9 mine mining plan for Federal leases U-082996 and U-49332 approved on December 14, 1984 and modified on May 5, 1987.

Mining operations must be conducted in accordance with both the Utah State permit and the approved mining plan. I have enclosed a copy of the mining plan approval document. Please read the terms and conditions of the mining plan approval document carefully. If you have any questions, please contact Bob Coleman or me at (303) 844-2400.

Sincerely,

Ranvir Singh
Ranvir Singh, Chief
Federal Lands Branch

Enclosure

cc: BLM Moab District Office
Utah Division of Oil, Gas, and Mining
OSM Albuquerque Field Office

UNITED STATES

DEPARTMENT OF THE INTERIOR

This mining plan approval document is issued by the United States of America to:

Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

for the Trail Mountain #9 mine mining plan for Federal lease U-64375 subject to the following conditions. Beaver Creek Coal Company is hereinafter referred to as the operator.

1. Statutes and Regulations.--This mining plan approval is issued pursuant to Federal lease U-64375; the Mineral Leasing Act of 1920, as amended (30 U.S.C. 181 et seq.); and in the case of acquired lands, the Mineral Leasing Act for Acquired Lands of 1947, as amended (30 U.S.C. 351 et seq.). This mining plan approval is subject to all applicable regulations of the Secretary of the Interior which are now or hereafter in force; and all such regulations are made a part hereof. The operator shall comply with the provisions of the Water Pollution Control Act (33 U.S.C. 1151 et seq.), the Clean Air Act (42 U.S.C. 7401 et seq.), and other applicable Federal laws.
2. This document approves the Trail Mountain #9 mine mining plan for Federal lease U-64375, and authorizes coal development or mining operations on the Federal lease within the area of mining plan approval. This authorization is not valid beyond

T. 17 S., R. 6 E., SLM

- Sec. 26: S1/2SW1/4, W1/2SW1/4SE1/4;
Sec. 27: S1/2S1/2;
Sec. 34: All;
Sec. 35: Lots 3 & 4, W1/2SW1/4NE1/4, S1/2NW1/4, SW1/4, W1/2W1/2SE1/4;

T. 18 S., R. 6 E., SLM

- Sec. 1: Lots 1 through 8, S1/2N1/2, E1/2NE1/4SW1/4, E1/2NW1/4NE1/4SW1/4, N1/2NW1/4NE1/4SE1/4, N1/2NW1/4SE1/4;
Sec. 2: Lots 1 through 8, S1/2N1/2, N1/2NE1/4SW1/4, N1/2SW1/4NE1/4SW1/4, SE1/4NE1/4SW1/4, NW1/4NE1/4SE1/4, N1/2SW1/4NE1/4SE1/4, N1/2NW1/4SE1/4, N1/2S1/2NW1/4SE1/4;
Sec. 3: Lots 1, 2, & 8, NE1/4SE1/4NE1/4;

T. 18 S., R. 6 E., SLM

Sec. 6: Lots 4 through 7, W1/2SE1/4NW1/4, W1/2E1/2SW1/4;

as shown on the map appended hereto as Attachment A.

3. The operator shall conduct coal development and mining operations only as described in the complete permit application package, and approved by the Utah Division of Oil, Gas, and Mining, except as otherwise directed in the conditions added to this mining plan approval.
4. The operator shall comply with the terms and conditions of the lease, this mining plan approval, the special conditions appended hereto as Attachment B, and the requirements of the Utah Permit number ACT/015/009 issued under the Utah State program, approved pursuant to the Surface Mining Control and Reclamation Act of 1977 (30 U.S.C. 1201 et seq.).
5. This mining plan approval shall be binding on any person conducting coal development or mining operations under the approved mining plan and shall remain in effect until superseded, cancelled, or withdrawn.
6. If during mining operations unidentified prehistoric or historic resources are discovered, the operator shall ensure that the resources are not disturbed and shall notify Utah Division of Oil, Gas, and Mining and OSM. The operator shall take such actions as are required by Utah Division of Oil, Gas, and Mining in coordination with OSM.



Assistant Secretary, Land and Minerals Management

5-14-91
Date

NORTH

ATTACHMENT A
MINING PLAN APPROVAL AREA MAP
TRAIL MOUNTAIN NO. 9 MINE
EMERY COUNTY, UTAH

27

26

U-49332

11.47 ACRES

34

36

36

UTU-64375

2630.81 Acres

2

BEAVER CREEK

FOOT CREEK

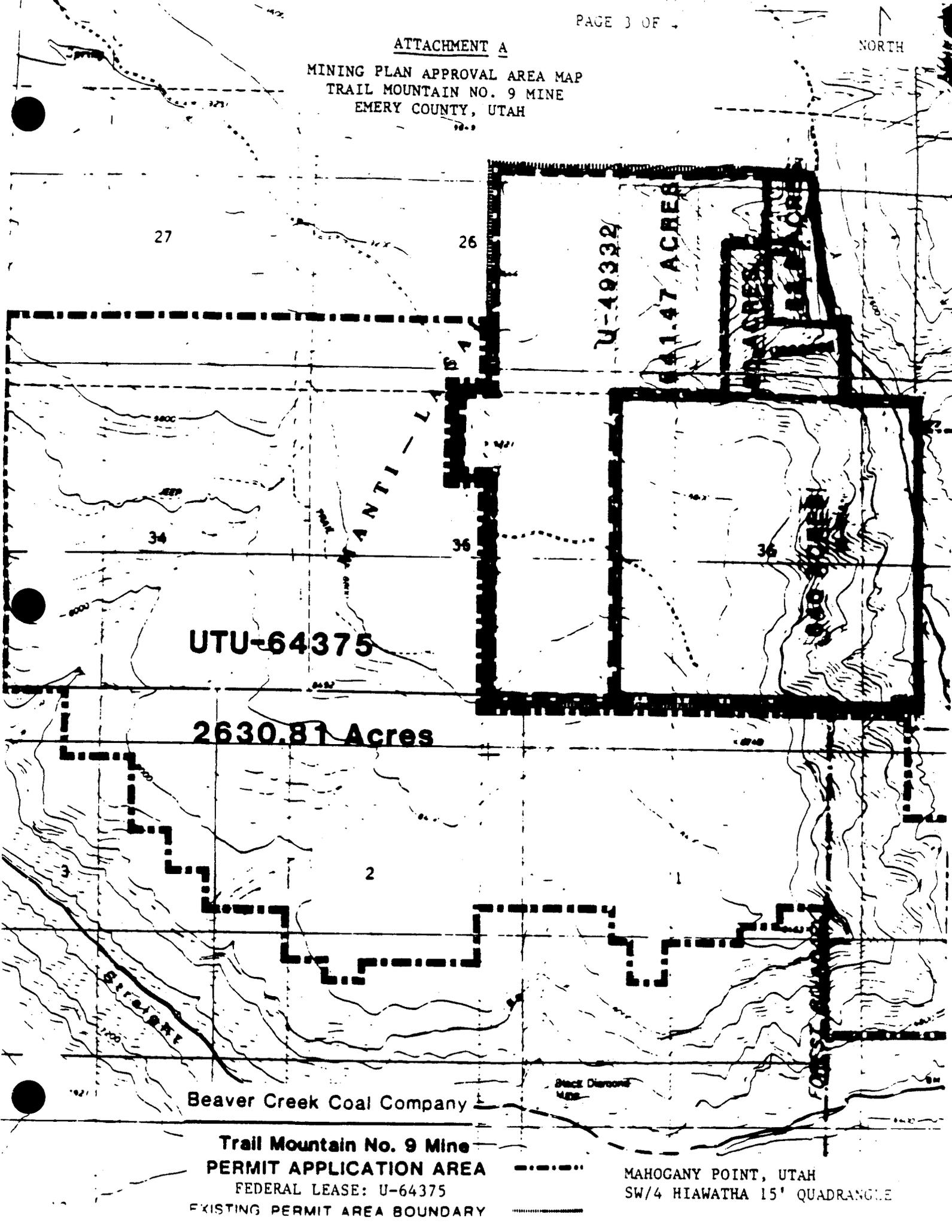
Black Diamond Mine

Beaver Creek Coal Company

Trail Mountain No. 9 Mine
PERMIT APPLICATION AREA
FEDERAL LEASE: U-64375

EXISTING PERMIT AREA BOUNDARY

MAHOGANY POINT, UTAH
SW/4 HIAWATHA 15' QUADRANGLE



ATTACHMENT B

Special Conditions

1. Before extending entries to the west beyond the location of hole TMX-6, the operator must drill horizontal holes to determine if significant water could be encountered in the Starpoint/Blackhawk aquifer. If significant water is encountered in the horizontal holes, the operator must stop the advance and notify the Regulatory Authority.
2. Before mining in the vicinity of perennial stream and escarpment buffer zones, the operator must provide data sufficient to justify use of the 15 degree angle-of-draw (measured from the vertical). If the technical data show that an angle-of-draw greater than 15 degrees is expected, the buffer zone must be modified to be consistent with the expected angle-of-draw.
3. The operator shall limit mining operations in the last panel on the eastern boundary of Section 1, T18S, R6E to first mining only in order to leave pillars of sufficient size to prevent caving of the overlying strata.

SPECIAL CONDITIONS

Mountain Coal Company

Trail Mountain Mine
Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050 (Price Office)
801 637-5203 (Mine Office)
801 748-2140 (Mine Site)



January 22, 1992

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

Re: Special Condition R614-301-731.200
Federal Lease Tract Approval
Trail Mountain Mine
ACT/015/009; Folder #2
Emery County, Utah

Dear Ms. Littig:

In reference to your letter of December 27, 1991, Mountain Coal Company is herein submitting 3 copies of a detailed proposal for the Water Monitoring Well as required.

This proposal contains all of the original information submitted on September 2, 1991 plus information requested by Mr. Hugh Klein in his memo to you on October 2, 1991.

The following items are included with this submittal:

- (1) Location Map
- (2) Location Justification
- (3) Drilling Plan
 - (a) Materials
 - (b) Methods/Procedures
 - (c) Preparation/Reclamation
- (4) Well Design
- (5) Monitoring Plan
- (6) Structure Contour Map
 - (a) Showing location of well and mining
 - (b) Submitted under separate cover
- (7) Agency Approval for Drilling
 - (a) To be submitted upon approval

The proposal is submitted as Appendix 7-14 to facilitate the review and inclusion in the mine plan upon approval. Present timing for installation of the well is during June-July of 1992, pending approval of required permits.

It is our hope this proposal will meet with your approval. If you have any questions, or need any further information please let me know.

Respectfully,



Dan W. Guy
Manager Permitting/Compliance

cc: Mark Scanlon
Rick Parkins
Johnny Coffey
File

Mountain Coal Company

Trail Mountain Mine
Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050 (Price Office)
801 637-5203 (Mine Office)
801 748-2140 (Mine Site)



January 23, 1992

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

Re: Water Monitoring @ Trail Mountain Mine, Mountain Coal Company. ACT/015/009, Folder #2, Emery County, Utah.

Dear Ms. Grubaugh-Littig:

Enclosed please find three copies of a detailed geologic structure map of the Trail Mtn area, showing the proposed ground water monitoring well location. These maps are being sent in response to your letter to Mr. Dan Guy (dated 12/27/91) and support the original proposed monitoring location, described in previous correspondence (Scanlon to Grubaugh-Littig, dated 9/2/91). Further documentation is being sent to your attention under separate cover by Mr. Guy.

If you have any questions or comments please contact me at (303) 929-5015, Ext. 246 or Mr. Dan Guy at (801) 637-5050.

Sincerely,

Mark W. Scanlon
Sr. Geologist

cc: J. Coffey
D. Guy

Enclosures



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
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

December 27, 1991

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

Dear Mr. Guy:

Re: Special Condition (R614-301-731.200) Water Monitoring, Federal Lease Tract, Trail Mountain Mine, Mountain Coal Company, ACT/015/009, Folder #2, Emery County, Utah

The response letter the Division received November 27, 1991, regarding the above-noted special condition, does not satisfy the intent nor the requirements of the condition.

The original intent of the condition, i.e. to have a well constructed to collect water information, remains in effect. Therefore, it is incumbent upon Mountain Coal Company to propose a location for the well where data can be collected. This point should be located down gradient of an area to be mined in the near future (i.e. two or three years). The location and details of the drilling plan need to be finalized (drilling methods, completion plan, monitoring frequency, parameter list, etc) as soon as possible.

A detailed proposal must be submitted by January 27, 1992, so that as soon as weather permits, work can be started.

Sincerely,



Pamela Grubaugh-Littig
Permit Supervisor



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

October 4, 1991

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

Dear Mr. Guy:

Re: Special Condition R614-301-731.200 (Water Monitoring) for Federal Lease Tract Approval, Mountain Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #2, Emery County, Utah

Attached please find a memo that outlines the proposed drilling for the Federal Lease Tract. Upon review, the location of the proposed monitoring well should be changed. If you have any questions about this, please call me.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

PGL/jbe
Attachment
AT015009W



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
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

2 October 1991

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Hugh Klein, Reclamation Hydrologist 

RE: Special Condition, R614-301-731.200 (Water Monitoring), for Federal Lease Tract Approval, ACT\015\009, Folder #2, Mountain Coal Company, Trail Mountain #9 Mine, Emery County, Utah

SYNOPSIS

As part of approval for the Federal Lease, the applicant is required to monitor quality and quantity of the Star Point aquifer at a point where the flow leaves the permit area. On 10 September 1991, the Division received a plan from Mountain Coal concerning the special condition. The following is an analysis of that plan.

ANALYSIS

Mountain Coal has proposed drilling the well in Township 18 South, Range 6 East, Section 3 near UGMS DH-5 in Straight Canyon. The proposal includes a schematic for the well design and a list of parameters to be monitored on a quarterly basis.

After reviewing Figure 7-2 (Location of Seeps and Springs and the Relationship of the Blackhawk-Star Point Aquifer to the Proposed Mine Workings) and Figure 3-6 (Mine Sequence Map), the location of the proposed hole does not seem optimal. The reason being that with groundwater flowing south and mining moving west the proposed well location would not yield data associated with mining until at least 1996. In addition, it is unlikely that this point would detect changes associated with mining to the east (unless the cone of depression was extremely large).

The well design shows the annular space above the sand/gravel pack to be a bentonite seal with bentonite grout above that. The difference between the two is unclear, as is the method of installation. Furthermore, and maybe more fundamentally, there is no discussion of the methods to be utilized for drilling or well completion.

Mountain Coal's monitoring plan for this well consists of TDS, Ph, total

Iron, total Manganese, water level, and Phosphate. Samples would be taken and analyzed on a quarterly basis. This does comply with the minimum requirements of R614-301-731.200, but is much less detailed than the existing ground water baseline, operational and post-mining water quality parameter list for Trail Mountain #9 Mine.

RECOMMENDATIONS

1) The location of the monitoring well should be changed. An area that would receive more direct flow from mining in the next five years would be more useful. A point north of Route 29 and outside the Co-Op Development property in Township 18 South, Range 6 East, Section 11 should be considered. The Division may want to consider the location originally proposed for this well as a site for an additional well that could be constructed two years prior to mining at the western boundary of the lease.

2) Further clarification is needed in regard to drilling and well completion. Some questions are: what is the drilling fluid (i.e., water, air; a non-petroleum based fluid should be used)?; what is the difference in the bentonite seal and bentonite grout shown in the plan?; how will grout be installed (i.e., slurried, tremied)? The plan should clearly outline the materials, methods, and procedures used to drill and complete the well.

3) Monitoring of this well should follow the frequency outlined in the plan but should consist of the existing ground water baseline, operational and post-mining water quality parameter list for Trail Mountain #9 Mine.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

November 8, 1991

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

Dear Mr. Guy:

Re: Exploration Drill Holes, Mountain Coal Company, Trail Mountain Mine,
CEP/015/009-91B, Folder #2 and Exploration Folder, Emery County, Utah

There is a discrepancy regarding land ownership (i.e., subsurface ownership). The drill sites are under state subsurface ownership. This information must be amended in the text of the Exploration Application. Additionally, documentation that the Forest Service Special-Use permit has been obtained must be submitted to the Division. Upon receipt of these two items, an exploration permit may be issued.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

PGL/jbe
cc: Susan White
AT015009E

AFFIDAVIT OF PUBLICATION

STATE OF UTAH)
ss.
County of Emery,)

I, Dan Stockburger, on oath, say that I am the Publisher of the Emery County Progress, a weekly newspaper of general circulation, published at Castle Dale, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper forTwo (2).....consecutive issues, and that the first publication was on the

.....12th.....day of...November....., 19..91.

and that the last publication of such notice was in the issue of such newspaper dated the

.....19th.....day of.....November....., 19..91

[Signature]

Subscribed and sworn to before me this

.....19th.....day of.....November....., 19..91

[Signature]
Notary Public

My Commission expires January 10, 1995

Residing at Price, Utah

Publication fee, \$.....43.20.....

**NOTICE OF INVITATION TO PARTICIPATE
IN COAL EXPLORATION PROGRAM
MOUNTAIN COAL COMPANY**

Mountain Coal Company is inviting all qualified parties to participate in its proposed exploration of certain Federal coal deposits in the following described lands in Emery County, Utah:

T. 17 S., R. 6 E., SLM, Utah, Sec. 2, SW $\frac{1}{4}$; Sec. 3, all; Sec. 4, lots 1-3, S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$; Sec. 9, E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$; Sec. 10, all; Sec. 11, W $\frac{1}{2}$; Sec. 13, W $\frac{1}{2}$ W $\frac{1}{2}$; Secs. 14, and 15, all; Sec. 16, NE $\frac{1}{4}$ NW $\frac{1}{4}$; Sec. 21, E $\frac{1}{2}$ W $\frac{1}{2}$, E $\frac{1}{2}$; Secs. 22, and 23, all; Sec. 24, W $\frac{1}{2}$ W $\frac{1}{2}$; Sec. 25, N $\frac{1}{2}$ NW $\frac{1}{4}$; Sec. 26, W $\frac{1}{2}$ SW $\frac{1}{4}$, NE $\frac{1}{4}$, N $\frac{1}{2}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$; Sec. 27, N $\frac{1}{2}$, N $\frac{1}{2}$ S $\frac{1}{2}$; Sec. 28, all; Sec. 29, E $\frac{1}{2}$ SE $\frac{1}{4}$; Sec. 32, E $\frac{1}{2}$; Sec. 33, all.

Containing 8,504.64 acres, more or less Emery County, Utah

Any party electing to participate in the exploration program must send written notice of such election to the Bureau of Land Management, Utah State Office, P.O. Box 45155, Salt Lake City, Utah 84145-0155, and to Mountain Coal Company, P.O. Box 1378, Price, Utah 84501. Such written notice must be received within thirty days after publication of this notice in the Federal Register.

Any party wishing to participate in this exploration program must be qualified to hold a lease under the provisions of 43 CFR 4372.1 and must share all cost on a pro rata basis. A copy of the exploration plan, as submitted by Mountain Coal Company, is available for public review during normal business hours in the BLM Office, (Public Room, Fourth Floor), 324 South State Street, Salt Lake City, Utah under Serial Number UTU-68945.

Published in the Emery County Progress November 12 and 19, 1991.

RECEIVED NOV 21 1991

Notary Public
LINDA THAYIN
January 10, 1995
State of Utah

Bureau of Land Management
Utah State Office
P. O. Box 45155
Salt Lake City, Utah 84145-0155

3410
UTU-68945
(U-942)

NOV 1 1991

Mr. Mark W. Scanlon
Mountain Coal Company
West Elk Mine
P. O. Box 591
Somerset, CO 81434

Dear Mr. Scanlon:

As discussed with you by telephone on October 30, 1991, the following information is being sent to you at the above address with a carbon copy to Mr. Dan Guy in Price, Utah.

The proposed newspaper notice submitted on October 24, 1991 with coal exploration license application UTU-68945 has been reviewed and recommended changes made.

The enclosed "Notice of Invitation" to participate in the coal exploration program is approved as modified.

Please note that the total number of acres applied for in the application has been changed to 8,504.64 acres.

In accordance with the regulations at 43 CFR 3410.2-1(c)(1), the notice should be published in the Emery County Progress, Castle Dale, Utah, once a week for two consecutive weeks. When completed, proof of publication must be submitted to this office.

Sincerely,

/s/ ROBERT LOPEZ

Chief, Minerals
Adjudication Section

Enclosure
Notice of Invitation

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



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF STATE LANDS AND FORESTRY

Norman H. Bangert
Governor
Dee C. Hansen
Executive Director
Richard J. Mitchell
Division Director

355 West North Temple
3 Triad Center, Suite 400
Salt Lake City, Utah 84180-1204
801-538-5508

October 7, 1991

ARCO Coal Company
ATTN: KIM PENOYER
555 Seventeenth Street
Denver, CO 80202

Dear Ms. Penoyer:

RE: Bond No. #U-8003091

This letter is to confirm that on October 7, 1991, the Director of the Division of State Lands and Forestry accepted a \$25,000 State of Utah Bond of Lessee, Bond No. 8003091, with Mountain Coal Company as principal and United Pacific Insurance Company as surety, to cover your proposed coal exploration under State Coal leases
ML 23177 and ML 23178.

If you have any questions concerning this matter, please contact this office.

Sincerely,

A handwritten signature in cursive script that reads "John T. Blake".

JOHN T. BLAKE
MINERAL RESOURCES SPECIALIST

tdw

CC: Mountain Coal Co.
P.O. Box 1378
Price, UT 84501

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



Property Administration

October 1, 1991

Mr. John T. Blake
State of Utah
Department of Natural Resources
355 West North Temple
3 Triad Center, Suite 400
Salt Lake City, UT 84180-1204

Re: Proposed Coal Exploration; ML 23177 and ML 23178
Bond and Letter Agreement
Emery County, Utah

Dear Mr. Blake:

Attached is the requested Bond in the amount of \$25,000
and Letter Agreement for the above referenced exploration
project.

If you have any questions, I can be reached at (303) 293-
4727.

Sincerely,

Kim Penoyer
Kim Penoyer
Lease Administrator

xc: Dan Guy
Alex Papp
Mark Scanlon

ORIGINAL

BOND NUMBER U-8003091
Corporate Surety Bond

STATE OF UTAH
BOND OF LESSEE

KNOW ALL MEN BY THESE PRESENTS, that we MOUNTAIN COAL COMPANY
of PRICE, UTAH Address _____

as principal and UNITED PACIFIC INSURANCE COMPANY, as
surety, are held and firmly bound unto the State of Utah in the sum of TWENTY-FIVE THOUSAND
Dollars (\$ 25,000.00) lawful money of the United States to be paid to the Board of
State Lands and Forestry, as agent for the State of Utah, for the use and benefit of the
State of Utah, and of any patentee or purchaser of any portion of the land covered by
the hereinafter described lease heretofore sold or which may hereafter be sold with a
reservation to the State of Utah, on the surface or of other mineral deposits of any
portion of such lands, for which payment, will and truly to be made, we bind ourselves,
and each of us, and each of our heirs, executors, administrators, successors, sub-
lessees, and assignees, jointly and severally by these presents.

Signed with our hands and seals this 24TH day of SEPTEMBER in the
year of our Lord, 1991.

The condition of the foregoing obligation is such that,

WHEREAS, The State of Utah, as Lessor, issued a(n) COAL
lease, Lease Numbers ML23177 and ML23178 and dated JANUARY 10, 1966, to ZIONS FIRST NATIONAL
BANK TRUSTEE FOR THE MCKINNON ESTATE as lessee (and said lease has been duly
assigned under date of _____ to _____
_____) to drill for, mine, extract, and remove all of the COAL
deposits in and under the following described lands to wit:

NOW, THEREFORE, THE principal shall be obligated to pay all monies, rentals,
royalties, cost of reclamation, damages to the surface and improvements thereon and any
other costs which arise by operation of the above described lease(s) accruing to the
Lessor and shall fully comply with all other terms and conditions of said lease, the
rules, regulations, and policies relating thereto of the Board of State Lands and
Forestry, Division of State Lands and Forestry, the Board of Oil, Gas and Mining, and
the Division of Oil, Gas and Mining as they may now exist or may from time to time be
modified or amended. This obligation is in effect even if the principal has conveyed
part of the purchase agreement interest to a successor in interest. If the principal
fully satisfies the above described obligations, then the surety's obligation to make
payment to the State of Utah is void and of no effect, otherwise, it shall remain in
full force and effect until released by the Division of State Lands and Forestry.

Signed, sealed and delivered
in the presence of

MOUNTAIN COAL COMPANY



[Signature]
Witness

[Signature: Thomas H. Parker] (SEAL)
Principal

[Signature]
Witness
Vivienne Douglas

BONDING COMPANY UNITED PACIFIC INSURANCE COMPANY
BY [Signature]
CASSIE J. BERRISFORD, ATTORNEY-IN-FACT
Attest: SEE ATTACHED POWER OF ATTORNEY

APPROVED AS TO FORM:
R. PAUL VAN DAM
ATTORNEY GENERAL

Resident Agent: N/A

Bonding Co. Address: 505 NORTH BRAND BLVD., SUITE 170
GLENDALE, CALIFORNIA 91203

By [Signature: David Christensen]

Corporate Seal of Bonding Company Must be Affixed.

CALIFORNIA
ACKNOWLEDGEMENT BY SURETY

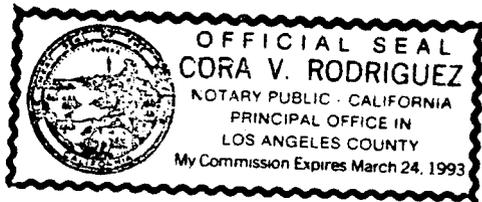
STATE OF CALIFORNIA

COUNTY OF LOS ANGELES } ss.

On this 24TH day of SEPTEMBER in the year 19 91, before me CORA V. RODRIGUEZ personally

appeared CASSIE J. BERRISFORD,
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within

instrument as attorney-in-fact of UNITED PACIFIC INSURANCE COMPANY
and acknowledged to me that the corporation executed it.



Cora V. Rodriguez
Notary Public

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

CASSIE J. BERRISFORD of LOS ANGELES, CALIFORNIA

is 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 7th day of May 19 90

UNITED PACIFIC INSURANCE COMPANY



[Signature]
Vice President

STATE OF Washington }
COUNTY OF King } ss.

On this 7th day of May, 19 90 personally appeared Lawrence W. Carlstrom

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, 19 90



[Signature]
Notary Public in and for State of Washington
Residing at Tacoma

I, Robert D. Ritzhaupt, 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 24th day of SEPTEMBER 19 91



Assistant Secretary *[Signature]*
Robert D. Ritzhaupt

ARCO Coal Company
555 Seventeenth Street
Denver, Colorado 80202
Telephone 303 293 4129



Charles B. Smith
Vice President
Marketing & Operations

April 3, 1991

Mr. Charles F. Vaughn
President
Nevada Electric Investment Company
2835 South Jones Blvd.
Las Vegas, Nevada 89102

Dear Mr. Vaughn:

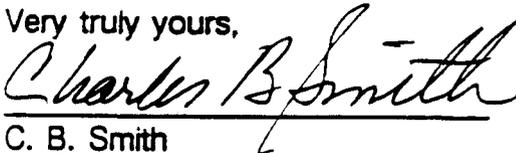
Further to our discussions, this will confirm the agreement between ARCO Coal Company, a division of Atlantic Richfield Company (ARCO) and Nevada Electric Investment Company (NEICO) by which ARCO will be permitted to conduct coal exploration in Sections 2 and 16, T17S, R6E, Emery County, Utah.

ARCO agrees to obtain all permits and other approvals from appropriate government agencies and will conduct its activities in compliance with all applicable state and federal laws. ARCO agrees to provide NEICO a copy of the geologist's drilling logs and results of coal quality analyses performed on coal cores obtained by ARCO. The coal cores, however, will be the property of ARCO.

ARCO is planning to conduct drilling at the sites shown on Attachment A. Some or all of these sites may be deleted in ARCO's sole discretion. If ARCO wishes to conduct exploratory drilling at additional sites, it will first secure the approval of NEICO.

If the foregoing is satisfactory to NEICO, please indicate your approval in the space provided below.

Very truly yours,



C. B. Smith
Vice President, Operations and
Marketing

Accepted and agreed this 18th day of April, 1991.

Nevada Electric Investment Company

By: 
Charles F. Vaughn, President

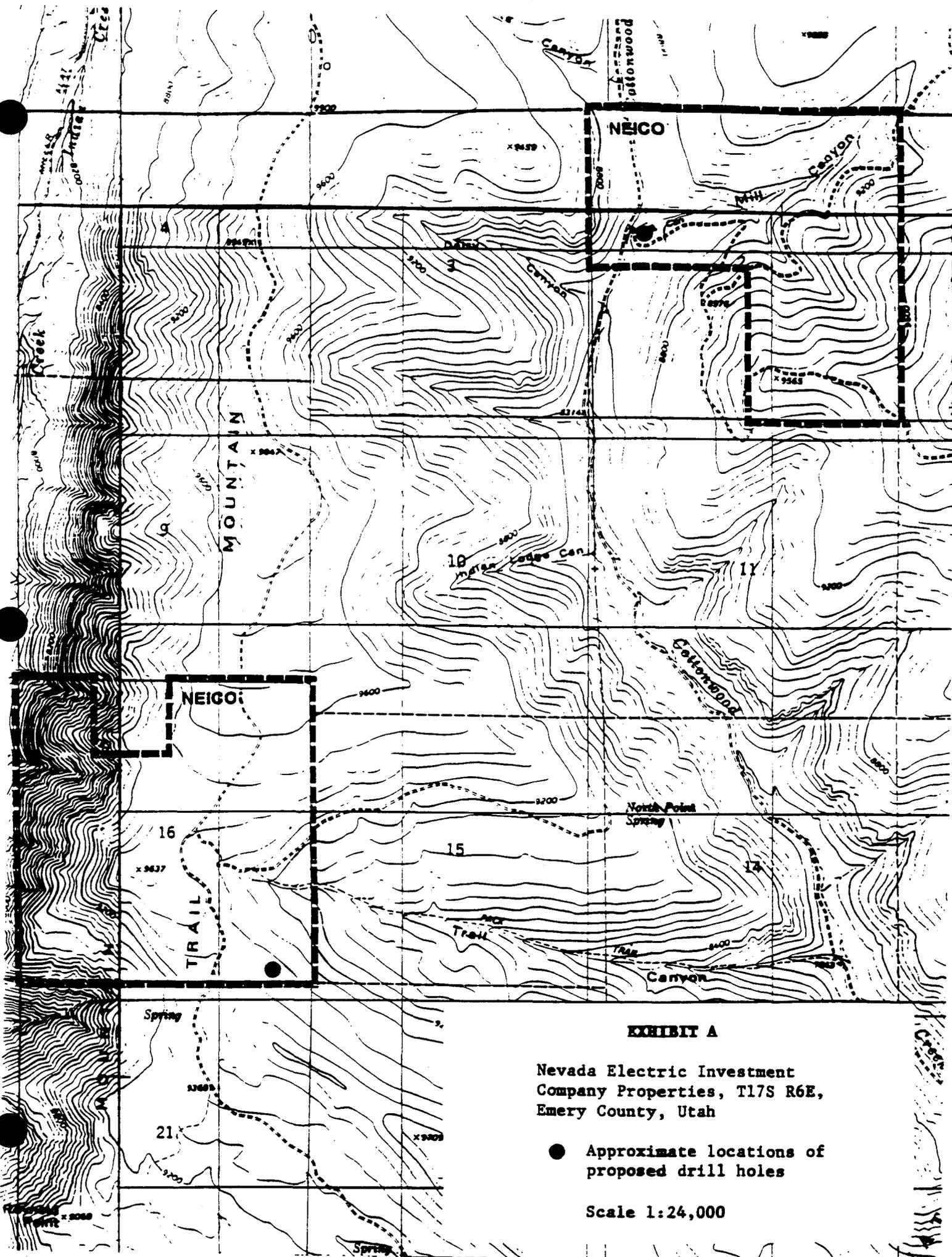


EXHIBIT A

Nevada Electric Investment
Company Properties, T17S R6E,
Emery County, Utah

● Approximate locations of
proposed drill holes

Scale 1:24,000

Mountain Coal Company

Trail Mountain Mine
Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050 (Price Office)
801 637-5203 (Mine Office)
801 748-2140 (Mine Site)



September 17, 1991

Mr. Ira Hatch, District Ranger
U.S.D.A. Forest Service
Manti-Lasal National Forest, Ferron District
P.O. Box 310
Ferron, Ut 84523

Dear Mr. Hatch:

Attached is a non-commercial road use permit application (FS-7730) for the proposed coal exploration drilling in Cottonwood Canyon on State lands.

If you have any questions or comments, please contact me at (801) 637-5050 or (303) 929-5015.

Regards,

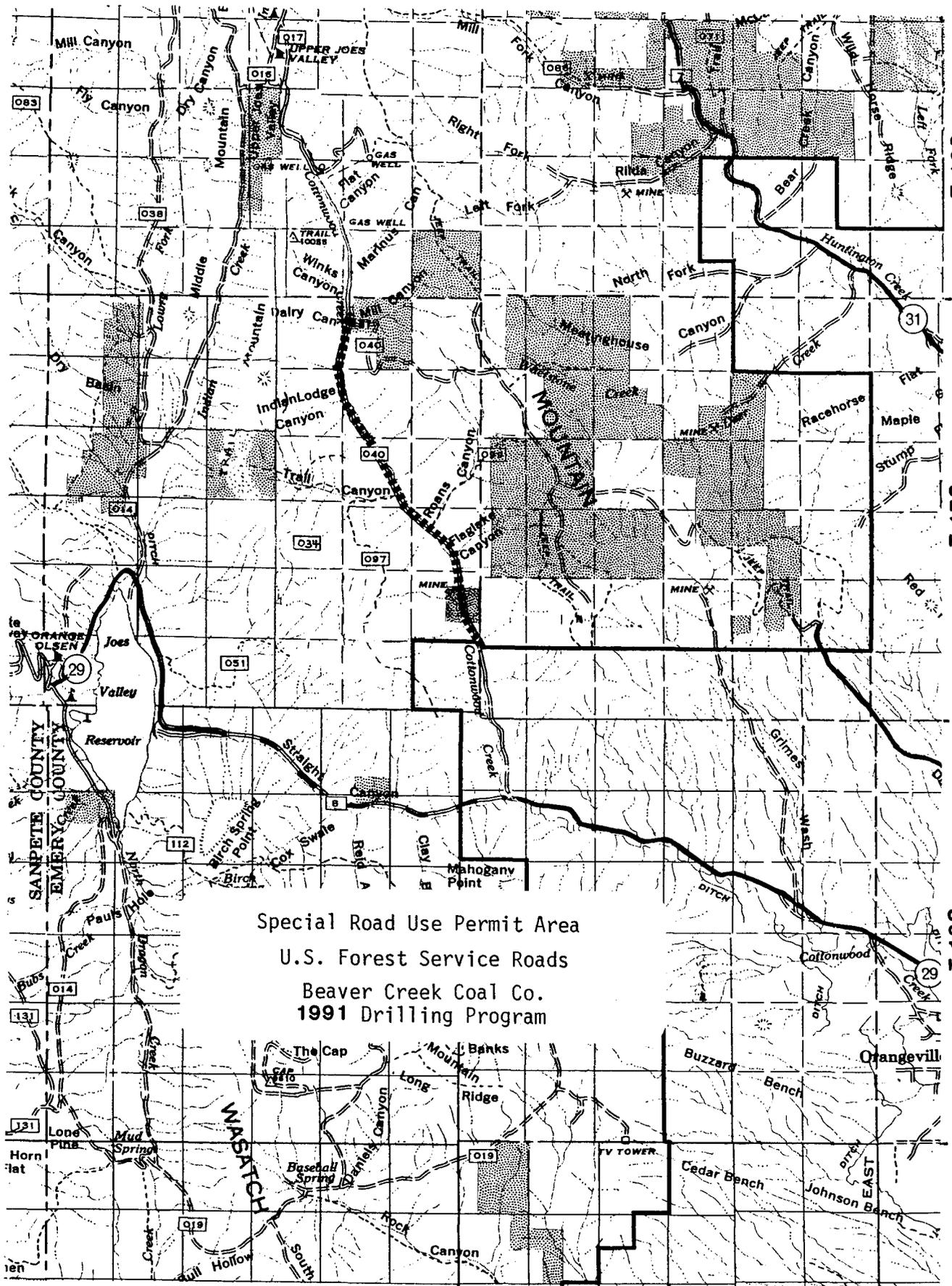
Mark W. Scanlon
Sr. Geologist
Mountain Coal Company
P.O. Box 1378
Price, Utah 84501

MWS/mer

cc: Dan Guy (MCC)

EQUIPMENT LIST

<u>Number</u>	<u>Type</u>
1	Truck Mounted Drill Rig
1	Water Truck
2-4	4 x 4 Pick-up Trucks
1	Camp Trailer
1	Flat Bed Truck
1	Fuel Truck or Trailer
1	D-8 Cat



Special Road Use Permit Area
 U.S. Forest Service Roads
 Beaver Creek Coal Co.
 1991 Drilling Program

R.6.E.

R.7.E.

T.16S.

T.17S.

T.18S.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

August 13, 1991

Mr. Dan Guy
Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Approval of Time Extension for Special Condition R614-301-731.200, Federal Lease Tract, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #3, Emery County, Utah

Pursuant to your request in a letter dated August 12, 1991, an extension is granted until November 12, 1991, to meet the requirements of the Special Condition R614-301-731.200 for the Federal Lease Tract.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

jbe
ATTRMTNSTI.LET

AMENDMENTS

BEAVER CREEK Coal Company

Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050



May 10, 1991

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: Transfer of Permit
from Beaver Creek Coal Company
to Mountain Coal Company
and Lease Permit Application
Trail Mountain No. 9 Mine
ACT/015/009
Emery County, Utah

Dear Mr. Braxton:

West Elk Coal Company, Inc. (Colorado) has been merged into Beaver Creek Coal Company (Utah). The name of Beaver Creek Coal Company has been changed to Mountain Coal Company. In addition, the name of the Trail Mountain No. 9 Mine has been changed to simply the Trail Mountain Mine.

By this letter, Mountain Coal Company requests approval of the assignment of the above referenced permits from Beaver Creek Coal Company to Mountain Coal Company, including the renaming of the mine from Trail Mountain No. 9 Mine to Trail Mountain Mine.

Pursuant to R614-303.300, Mountain Coal Company submits the following information and materials in support of its request for approval of the assignment:

- (1) Name and address of the existing permittee:

Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

May 10, 1991

Page 2

(2) Name and address of the assignee and assignee's resident agent:

(a) Assignee:

Mountain Coal Company
P.O. Box 1378
Price, Utah 84501

(b) Resident Agent:

The Corporation Trust Company
1209 Orange Street
Wilmington, Delaware 19801

(3) Permit Name and Number:

Trail Mountain No. 9 Mine
(changed to: Trail Mountain Mine)

Trail Mountain No. 9 Mine Lease Permit Application
(changed to: Trail Mountain Mine Lease Permit Application)

ACT/015/009

(4) Legal, Financial, Compliance and Related information required by R614-301-100:

See attached revised Permit Chapter II-Legal, Financial, Compliance and Related Information.

In making this request, Mountain Coal Company agrees to continue operations in compliance with the terms and conditions of the existing permit. Concurrently, with the filing of this request, Mountain Coal Company has submitted for advertisement a notice of the filing of this request. The advertisement will be in the form included in the revised Chapter II.

I appreciate your consideration in this matter. If you have any questions, or need any further information, please let me know.

Respectfully,



Dan W. Guy
Mgr. Permitting/Compliance

cc: Dave Arnolds
Scott Jones
Dana Echter
File



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

March 11, 1991

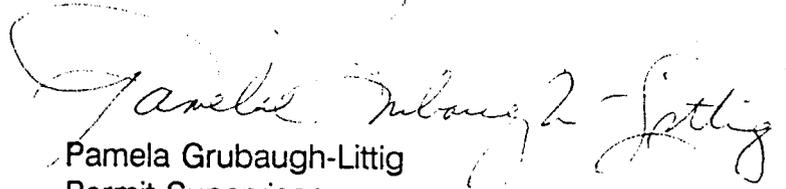
Mr. Dan Guy, Manager
Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Approval of Proposed Substation, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009-91A, Folder #3, Emery County, Utah

The above-mentioned amendment was approved effective March 8, 1991.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

jbe
AT015009.001

BEAVER CREEK Coal Company

Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050



February 28, 1991

Pamela Grubaugh - Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
S.L.C., Ut. 84180-1203

Re: Proposed Sub-Station
Trail Mountain No. 9 Mine
ACT/015/009
Emery County, Utah

Dear Ms. Littig:

Enclosed are 4 copies each of a proposed new sub-station location for the Trail Mountain No. 9 Mine for your review and approval.

The proposed new sub-station will be located southwest of and adjacent to the existing station. The existing concrete wall is to be extended to the southwest, to the main portal, where the main power will enter the mine. The portal vault is to allow for transfer of the buried, main power cable to the mine power feeder cable. The existing sub-station will be replaced by the new station, and will be removed after the installation.

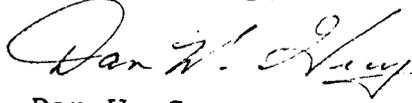
The proposed new station will be located just northeast of the topsoil storage pile, and the concrete wall will go in front of the pile; however, the topsoil pile will remain intact, as will protection berms, and the new wall will actually further protect the pile from contamination or other impacts. (See attached drawings for location.)

All proposed work will be done within the existing disturbed area, and since this is an upgrade of an existing facility, no additional reclamation costs or other environmental impacts are expected.

The existing substation contains one reclosure switch with 63 ppm PCB. This has been previously identified during an E.P.A. inspection, and the switch has been scheduled to be removed when the sub-station upgrade took place. The switch will be removed at that time and properly stored and disposed of in accordance with regulations. There are no additional PCB contaminated items in the sub-station.

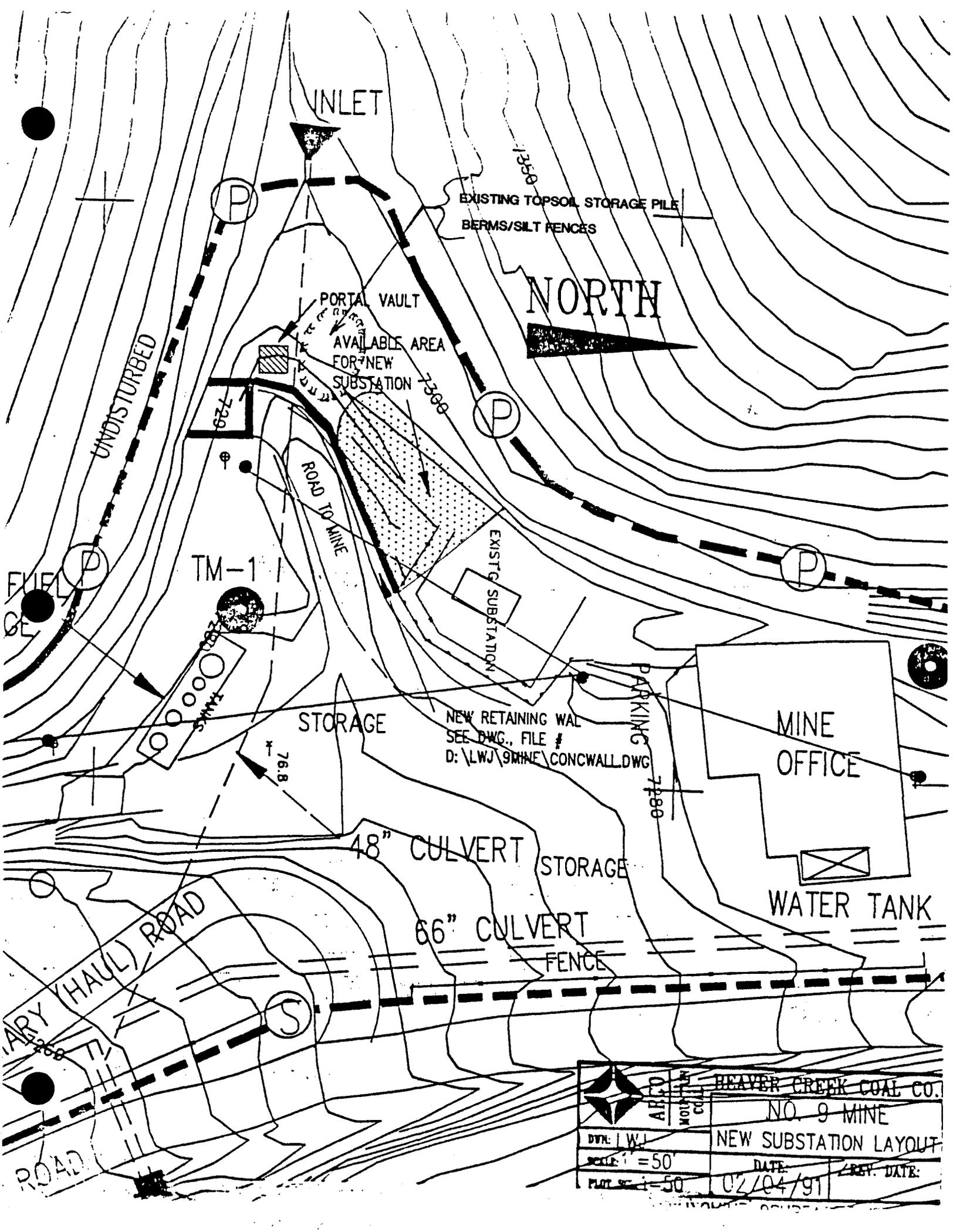
It is our hope to implement this power upgrade in the near future, to accommodate the requirements of the new loadout. If you have any questions, or need any further information, please let me know.

Respectfully,



Dan W. Guy
Mgr. Permitting/Compliance

cc: Gary Curtis
Johnny Coffey
Dave Arnolds
File



INLET

EXISTING TOPSOIL STORAGE PILE
BERMS/SILT FENCES

NORTH

PORTAL VAULT
AVAILABLE AREA FOR NEW SUBSTATION

UNDISTURBED

ROAD TO MINE

EXISTING SUBSTATION

TM-1

TANKS

STORAGE

NEW RETAINING WAL
SEE DWG., FILE #
D:\LWJ\9MINE\CONCWALL.DWG

PARKING

MINE OFFICE

WATER TANK

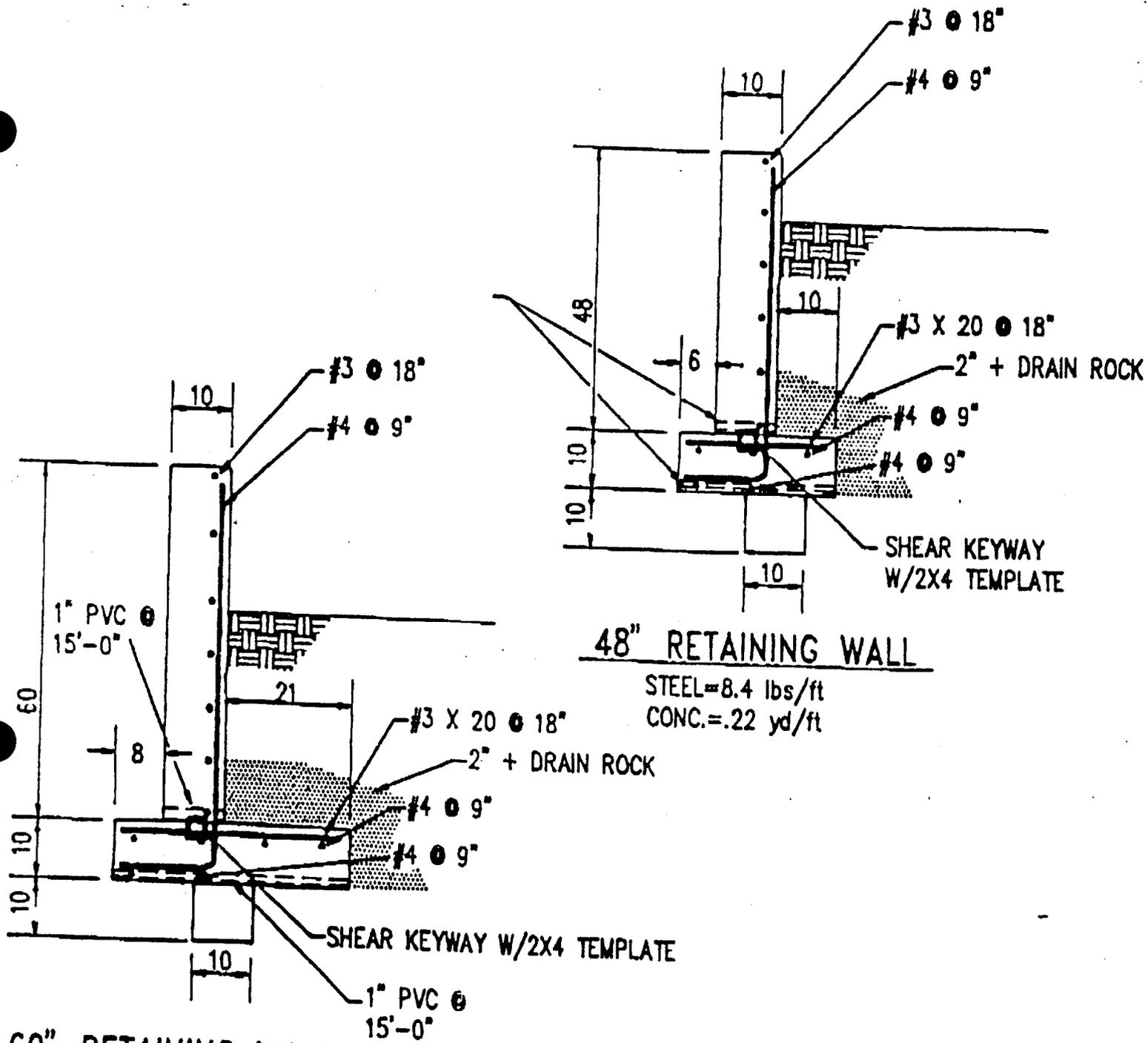
48" CULVERT STORAGE

66" CULVERT FENCE

ARY (HAUL) ROAD

ROAD

 ARCO MOUNTAIN CO.	HEAVER CREEK COAL CO.	
	NO. 9 MINE	
DWG: LWJ	NEW SUBSTATION LAYOUT	
SCALE: 1" = 50'	DATE:	REV. DATE:
PLAT. SC. 1-50	02/04/91	



48" RETAINING WALL

STEEL=8.4 lbs/ft
 CONC.=.22 yd/ft

60" RETAINING WALL

STEEL=11.3 lbs/ft
 CONC.=.28 yd/ft

	BEAVER CREEK COAL CO.	
	TYPICAL WALL SECTION NO. 9 SUBSTATION LAYOUT	
DWN: LWJ	DATE:	REV. DATE:
SCALE: 1/2' = 1'-0"	2/4/91	
PLOT SCL 1/2" = 12"		
ACAD # D: \LWJ\9MINE\CONCWALL.DWG		
DRAWING #		



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

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

November 13, 1990

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

Dear Mr. Guy:

Re: Approval of Amendments, Culvert Extension-90E, New Coal Handling/Loadout Facility-90F, Ventilation Portal/Powder Magazine Relocation-90G, New Bathhouse/Culinary Water System-90H, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #3, Emery County, Utah

This letter hereby approves the above-mentioned amendments. Before construction of the culvert (90E) and fan portal (90G) begins, you must submit as-built drawings of the recently cleaned and enlarged pond, verifying the capacity. These drawings must include elevations of sediment cleanout, dewatering device, and emergency spillway. Elevations must be shown on figure 7-14; appropriate sediment pond embankment elevations must be included on figure 7-15, Stage-Discharge Curve. If there are problems with the capacity, they must be resolved before work begins on the culvert or fan portal.

Sincerely,

Pamela Grubaugh-Littig
Permit Supervisor

jbe
cc: Tom Munson
Jesse Kelley
AT015009.13

NOTARIZED FORM
R614-301-123

PERMITTEE: Beaver Creek Coal Company
MINE NAME Trail Mountain No. 9 Mine
MINE NUMBER ACT/015/009
DATE: Nov. 8, 1990

TYPE OF PERMITTING ACTION

- APPLICATION
- PERMIT RENEWAL
- TRANSFER, SALE, OR ASSIGNMENT OF PERMIT RIGHTS
- PERMIT CHANGE
- AMENDMENT
- SIGNIFICANT REVISION

If a permit change, briefly describe the change in the permit application.

Culvert Extension (90E); New Coal Handling/Loadout Facility - (90F);
Ventilation Portal/Powder Magazine Relocation-(90G); New Bathhouse/
Culinary Water System - (90H)

I, the undersigned, hereby certify that the material and information contained in this application are complete and are correct to the best of my knowledge and belief.

BY: *Dan W. Guy*
Dan W. Guy, Mgr. Permitting/Compliance

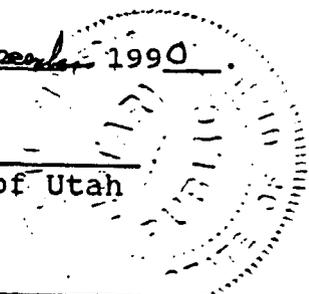
State of Utah
County of

Subscribed and sworn to and before me this 8th day of November 1990.

Rina Lopez
Notary Public for the State of Utah

Residing at: *Quincy, Utah*

My Commission Expires: 4/1/93



BEAVER CREEK Coal Company

Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050



Nov. 8, 1990

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
S.L.C., Ut. 84180-1203

Re: Amendments 90E, 90F, 90G & 90H
Trail Mountain No. 9 Mine
ACT/015/009
Emery County, Utah

Dear Ms. Littig:

This letter is the Beaver Creek Coal Company response to the U.S. Forest Service concerns expressed in their letter to Lowell Braxton on Nov. 6, 1990.

Each of the U.S.F.S. comments are addressed in the order of their letter:

(1) Storage/Loadout Bin - The proposed new loadout system represents only the first phase of what we hope to be a much larger expansion. This system has been designed by our engineering staff, and represents the most economic and efficient system for our present and near-future needs. The system, as well as the truck-haulage contract, is designed to move coal rapidly from the mine site to minimize on-site storage. The 600 ton bin has been evaluated, and was found to be the best for our existing production and budget scenarios. If the need for additional capacity should develop in the future, a second bin or other covered storage could be justified and provided at that time.

In the long-term, as justified by increased productivity or demand, a larger, more elaborate system may be considered, including a silo, stacking tubes and reclaim tunnels.

It should be noted that the by-pass chute will be covered as suggested.

(2) Beaver Creek Coal Co. is working with the Utah Department of Health to evaluate the existing sewage system as well as the need (and designs) for expanding the system. All required approvals will be obtained from the Department of Health prior to modification of the system.

(3) Macroinvertebrate Study - Appendix 10-7 in the Trail Mountain No. 9 Mine M.R.P. contains both the Interim and Final Reports of the Cottonwood Creek Macroinvertebrate Studies conducted during 1985-1986. The study was performed by Dennis K. Shiozawa of Brigham Young University under the direction of the Utah Division of Oil, Gas and Mining and U.S. Department of Interior (O.S.M.). The conclusion reached during the study was that "the impact of the Trail Mountain mining operation on the Cottonwood Creek invertebrate community is negligible as determined by the prescribed sampling program." The conclusion also stated that it did not appear that additional studies need to be conducted. This conclusion was also supported in a letter from John Livesay, Supervisor, Utah Division of Wildlife Resources, Southeastern Region on Nov. 25, 1986. In this letter, Mr. Livesay wrote: "As a result, we concur with the author that additional studies relative to mining are not necessary." The program was terminated after that time.

Beaver Creek Coal Co. has proposed mitigation measures to compensate for the loss of riparian area resulting from the culvert extension. In addition, Beaver Creek has an on-going program of water monitoring, which includes water quality samples on 3 points in Cottonwood Creek.

(4) Facility Colors All new facilities will be painted a color that is consistent or compatible with the other facilities.

(5) Culvert Bedding - Sand used for bedding will have adequate plasticity to prevent piping around the inlet. In addition, the existing inlet structure will be duplicated at the new inlet, and a cutoff structure will be installed.

(6) Culvert Backfill - Since the backfill around the culvert will be mechanically tamped, care will be taken to avoid placing rocks greater than 3 inches in diameter within 1 foot of the culvert.

Amendments 90E, 90F, 90G & 90H
Trail Mountain No. 9 Mine
ACT/015/009
November 8, 1990
Page 3

It is our hope that this response will adequately address the remaining concerns of these projects. If you have any questions, or need any further information, please let me know.

Respectfully,

Dan W. Guy/pd

Dan W. Guy
Mgr. Permitting/Compliance

cc: George A. Morris - Forest Supervisor
Johnny Coffey
Dana Echter
Dave Arnolds
File

BEAVER CREEK Coal Company

Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050



10/1/90

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
S.L.C., Utah 84180-1203

Re: Cottonwood Creek Culvert Extension
Trail Mountain No. 9 Mine
ACT/015/009; Folder #2
Emery County, Utah

Dear Ms. Littig:

Enclosed are 4 copies of additional information requested for the proposed Cottonwood Creek Culvert Extension. This information is submitted as a complete new Appendix (7-13) to the mine plan to help facilitate the review. Necessary changes to the narrative and maps in the M.R.P., as well as new bond calculations will be submitted for all proposed projects under separate cover.

As I indicated in an earlier letter, we still plan to install this extension this year, during the low flow period, upon approval. I appreciate your quick response to our earlier submittal, and I hope this additional information will address the deficiencies noted.

If you have any questions, or need any further information, please let me know.

Respectfully,

Dan W. Guy
Mgr. Permitting/Compliance

cc: Johnny Coffey
Dana Echter
Jay Marshall
Dave Arnolds
File



10/1/90

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
S.L.C., Utah 84180-1203

Re: New Coal Handling/Loadout Facility
Trail Mountain No. 9 Mine
ACT/015/009
Emery County, Utah

Dear Ms. Littig:

Enclosed are 4 copies of a proposed new coal handling/loadout facility for the Trail Mountain No. 9 Mine. This facility will replace the existing tipple and stockpile/loadout system. All work will be conducted within the existing disturbed area.

This proposal is submitted as a complete new Appendix (3-8) to facilitate the review. Other necessary changes to the narrative and maps in the M.R.P. as well as new bond calculations, well be submitted for all proposed projects under separate cover.

This project is scheduled to start in October 1990 and be completed in January or February of 1991.

If you have any questions, or need any further information, please let me know

Respectfully,

Dan W. Guy
Mgr. Permitting/Compliance

cc: Johnny Coffey
Dana Echter
Jay Marshall
Dave Arnolds
File

BEAVER CREEK Coal Company

Post Office Box 1378

Price, Utah 84501

Telephone 801 637-5050



10/1/90

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
S.L.C., Utah 84180-1203

Re: New Bath House/ Culinary Water System
Trail Mountain No. 9 Mine
ACT/015/009
Emery County, Utah

Dear Ms. Littig:

Enclosed are 4 copies of a proposed new bath house and culinary water system for the Trail Mountain No. 9 Mine. The bath house and water tanks will be moved from the Gordon Creek No. 2/7/8 Mine after completion of mining at that location. The proposed new facilities will be installed within the existing disturbed boundary; however, the existing disturbed area will be regraded prior to installation in conjunction with the culvert extension project.

The projected closure of the Gordon Creek No. 8 Mine is late October to mid - November, 1990. Installation of these proposed facilities is planned to take place as soon as practical after the Gordon Creek closure.

This proposal is submitted as a complete new Appendix (3-9) to facilitate the review. Other necessary changes to the narrative and maps in the M.R.P., as well as new bond calculations, will be submitted for all proposed projects under separate cover.

If you have any questions, or need any further information, please let me know.

Respectfully,

Dan W. Guy
Mgr. Permitting/Compliance

cc: Johnny Coffey
Dana Echter
Jay Marshall
Dave Arnolds
File



10/1/90

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
S.L.C., Utah 84180-1203

Re: Proposed Ventilation Portal
Trail Mountain No. 9 Mine
ACT/015/009
Emery County, Utah

Dear Ms. Littig:

Enclosed are 4 copies of a proposed amendment for a new ventilation portal at the Trail Mountain No. 9 Mine. The portal will be located in an area of pre-law disturbance just south of the mine site. This area is not within the present mine disturbed area; therefore, the disturbed area will be expanded to include the portal site and access road. Expansion of the disturbed area for this project will be approximately 0.340 acres, which, when added to the expansion for the culvert extension of 0.471 acres expands the disturbed area a total of approximately 9.216%.

This proposal is submitted as a complete new Appendix (3-7) to the mine plan to help facilitate the review. Other necessary changes to the narrative and maps in the M.R.P., as well as new bond calculations for all proposed projects, will be submitted under separate cover.

If you have any questions, or need any further information, please let me know.

Respectfully,

Dan W. Guy
Mgr. Permitting/Compliance

cc: Johnny Coffey
Dana Echter
Jay Marshall
Dave Arnolds
File



10/1/90

Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
S.L.C., Utah 84180-1203

Re: Relocation of Powder Magazines
Trail Mountain No. 9 Mine
ACT/015/009
Emery County, Utah

Dear Ms. Littig:

Enclosed are 4 copies of a map and drawing showing the proposed relocation of the powder and cap magazines at the Trail Mountain No. 9 Mine. The relocation has become necessary due to the expansion of the bathhouse facilities and parking area at the mine. The new proposed site is on the upper road, in an area that is used only occasionally by mine personnel.

The magazines will be installed and protected in accordance with all MSHA and other applicable regulatory provisions. This, coupled with the new and more remote location, should actually provide for safer storage of the explosives.

All work, including protection berms, will be confined to the existing disturbed area.

If you have any questions, or need any further information, please let me know.

Respectfully,

Dan W. Guy
Mgr. Permitting/Compliance

cc: Johnny Coffey
Dana Echter
Jay Marshall
Dan Lucy
Dave Arnolds
File



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

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

October 19, 1990

Mr. Dan Guy, Permitting & Compliance
Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Review of Removal of Revegetation Test Plots, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #2, Emery County, Utah

Attached is a Technical Memorandum that reviews the removal of the revegetation test plots at the Trail Mountain #9 Mine. Please be advised of the need for the soil samples to be taken. All discussion about the data from the test plot (1984-1990) must be submitted in the 1990 annual report, and a final seed mixture recommended.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

jbe
Attachment
cc: Susan White
Henry Sauer
AT015009.3



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

October 18, 1990

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Susan M. White, Reclamation Biologist *SMW*
Henry Sauer, Reclamation Soils Specialist *HS*

RE: Removal of Revegetation Test Plots, Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009, Folder #2, Emery County, Utah

Synopsis & Analysis

Beaver Creek Coal Company is requesting removal of the revegetation test plots to make room for the bath house installation. The test plots were established in 1984 and have been monitored yearly. The vegetative cover of the test plots equals or exceeds that of the corresponding reference area. The test plots appear to have demonstrated that the soil material is adequate for plant growth.

Recommendation

The operator should be allowed to remove the test plots. As agreed, the operator must take soil samples from the plots prior to removal. All soil and vegetation data (1984-1990) must be summarized, discussed and submitted in the 1990 annual report. A final revegetation seed mixture must be recommended as a result of the vegetation sampling.

Additionally, the rooting zone of the test plots soil must be salvaged and stored in the topsoil storage pile.

jbe
ATTRLMTN#9



State

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Hangarter
Governor

Dee C. Hansen
Executive Director

Dianna 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 17, 1990

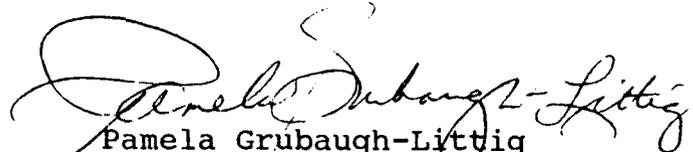
Mr. Dan Guy, Manager
Permitting and Compliance
Beaver Creek Coal Company
P. O. Box 1378
Price, Utah 84501

Dear Mr. Guy:

Re: Permit Defects (Concrete Diversion, Sedimentation Pond As-Built and Haul Road Certification), Beaver Creek Coal Company, Trail Mountain #9 Mine, ACT/015/009-90D, Folder #3, Emery County, Utah

The above-noted permit amendment was approved by the Division on August 17, 1990.

Sincerely,


Pamela Grubaugh-Littig
Permit Supervisor

djh
AT

OTHER PERMITS



State of Utah
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

Norman H. Bangertter
Governor
Suzanne Dandoy, M.D., M.P.H.
Executive Director
Kenneth L. Alkema
Director

288 North 1460 West
P.O. Box 18690
Salt Lake City, Utah 84116-0690
(801) 538-8121

May 1, 1989

Dan W. Guy
Manager of Permitting/Compliance
Beaver Creek Coal Company
P.O. Box 1378
Price, Utah 84501

Re: Issuance of General Permits for Coal
Mining UTG040003, UTG040004 and
UTG040005

Dear Mr. Guy:

We hereby acknowledge receipt by EPA and the State of five Notices of Intent (NOIs) for coverage under the Utah General Permit for Coal Mining. The NOI's for Beaver Creek Coal Company's Trail Mountain No. 9 Mine, Gordon Creek No. 2 Mine, Huntington Canyon No. 4 Mine, Gordon Creek No. 3 & 6 Mines and the CV Spur Processing/Loadout Facility are considered adequate. Three of the facilities will be issued a general permit and two of the existing facility permits will be inactivated because of completion of reclamation activities. Trail Mountain No. 9 Mine has been reassigned a new permit number UTG040003, Gordon Creek No. 2 Mine has been reassigned a new permit number UTG040004 and the CV Spur Processing/Loadout Facility has been assigned a new permit number UTG040005. Any future correspondence regarding these three facilities should refer to these numbers. The permits for Huntington Canyon No. 4 Mine UT0023116 and Gordon Creek No. 3 & 6 Mines UT0023060 will be inactivated.

A copy of the final signed permits are enclosed. Coverage shall begin June 1, 1989 and all requirements and conditions of the permits will be in full force and effect at that time.

Preprinted Discharge Monitoring Report forms (EPA form 3320-1) for self monitoring and reporting requirements as specified in the permits will be sent to Beaver Creek Coal by June 1st.

Dan Guy
Page Two

Also enclosed is the billing information for the issuance of your Utah Pollutant Discharge Elimination System (UPDES) permits. A fee schedule was included in the Utah Department of Health budget appropriation request at the direction of the Legislature and in accordance with Utah Code Annotated 26-1-6. The fee schedule as approved by the Legislature includes a \$100.00 filing fee and a charge equal to the Bureau of Water Pollution Control's actual costs for writing and issuance of a UPDES permit. It is Division policy to charge either the filing fee or the actual cost plus 7% whichever is greater. Please remit \$300.00 to the Utah Department of Health, Bureau of Water Pollution Control, P.O. Box 16690, Salt Lake City, Utah 84116-0690.

If you have any questions please contact Mike Herkimer at 538-6146.

Sincerely,

Utah Water Pollution Control Committee



Don A. Ostler, P.E.
Executive Secretary

Enclosure

MDH:st

cc: Janet Fujita, EPA Region VIII, w/enclosure
Joel Helfrich, DOGM, w/enclosure

1571-28

BOND

ORIGINAL

R I D E R

RIDER to be attached to and form a part of Bond Number U-632958

on behalf of BEAVER CREEK COAL COMPANY
(Name)

1305 SOUTH CARBON AVENUE, 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 FOUR HUNDRED SIXTY-THREE THOUSAND SEVEN
HUNDRED ELEVEN AND NO/100-----

Dollars (\$ 463,711.00---) effective MARCH 5, 19 90.

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. Parker
Vice President

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



Bond Number U63 05 13
 Permit Number ACT/015/009
 Mine Name Beaver Creek No. 9 Mine

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 84160-1203
 (801) 538-5340

THE MINED LANDS RECLAMATION ACT

BOND

The undersigned Beaver Creek Coal Company
 as principal, and United Pacific Insurance Company as
 surety, hereby jointly and severally bind ourselves, our heirs, administrators,
 executors, successors and assigns unto the State of Utah, Division of Oil, Gas
 and Mining, and the U. S. Department of the Interior, Office of Surface Mining
 in the penal sum of Four Hundred Sixty-Three Thousand Seven Hundred Eleven
dollars (\$ 463,711.00). Such sum shall be payable to
 one, but not both, of the above-named agencies.

The principal estimated in the Mining and Reclamation Plan filed with the
 Division of Oil, Gas and Mining on the 3rd day of March
19 81, that 1414.77 acres of land will be disturbed
 by this mining operation in the State of Utah. A description of the disturbed
 land is attached hereto as Exhibit "A."

When the Division has determined that the principal has satisfactorily
 reclaimed the above-mentioned lands affected by mining in accordance with the
 approved Mining and Reclamation Plan and has faithfully performed all
 requirements of the Mined Land Reclamation Act, and complied with the Rules
 and Regulations adopted in accordance therewith, then this obligation shall be
 void; otherwise it shall remain in full force and effect until the reclamation
 is completed as outlined in the approved Mining and Reclamation Plan.

If the approved plan provides for reclamation of the land affected on a
 piecemeal or cyclic basis, and the land is reclaimed in accordance with such
 plan, then this bond may be reduced periodically.

In the converse, if the plan provides for a gradual increase in the area
 of the land affected or increased reclamation work, then this bond may
 accordingly be increased with the written approval of the surety company.

The Division shall only accept the bond of a surety company if the bond is
 noncancellable by the surety at any time for any reason including, but not
 limited to nonpayment of premium or bankruptcy of the permittee during the
 period of liability.

NOTE: Where one signs by virtue of Power of Attorney for a surety company, such Power of Attorney must be filed with this bond. If the principal is a corporation, the bond shall be executed by its duly authorized officer.

Beaver Creek Coal Company
Principal (Company)

LEGAL
PC

By Charles B. Smith
Company Officer - Position
Charles B. Smith, Vice President

Date: September 22, 1987

United Pacific Insurance Company
Surety (Company)

By James M. Kade
Surety Company Officer - Position
James M. Kade, Attorney-in-Fact

DATE: September 21, 1987

APPROVED AS TO FORM:

By _____
Assistant Attorney General

Beaver Creek No. 9 Mine

Exhibit A

Affected Area (Permit Area)

Township 17 South, Range 6 East, SLB&M

Section 25: S1/2 NW1/4, W1/2 SW1/4, W1/2 E1/2 SW1/4, SW1/4
SE1/4, E1/2 E1/2 SW1/4

Begin at point of SW Corner of NW1/4 SE1/4, thence North
160 Rods, thence East 44 Rods to center of Cottonwood
Creek, Southward along creek to a point 76 Rods east of the
beginning, thence west 76 Rods to the Point of Beginning.

Section 26: SE1/4 NE1/4, E1/2 SW1/4 NE1/4, E1/2 SE1/4,
E1/2 W1/2 SE1/4

Section 35: N1/2 NE1/4, SE1/4 NE1/4, E1/2 SW1/4 NE1/4,
E1/2 SE1/4, E1/2 W1/2 SE1/4

Section 36: All

Disturbed Area:

Township 17 South, Range 6 East, SLB&M

Section 25: 8.8 acres in the SW1/4 NE1/4

Signed, sealed, and dated this 21st day of September 1987.

United Pacific Insurance Com

By: James M. Kaede
James M. Kaede, Attorney-in-F

UNITED PACIFIC INSURANCE COMPANY

HOME 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 **James M. Kade of Denver, Colorado**

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-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 **30th** day of **April** 1985.

UNITED PACIFIC INSURANCE COMPANY

Vice President



STATE OF **Pennsylvania**
COUNTY OF **Philadelphia** } ss.

On this **30th** day of **April**, 19 **85** personally appeared **Raymond MacNeil**

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 2, and 3 of the By-Laws of said Company, and the Resolution, set forth therein, are still in full force.

My Commission Expires:

September 28, 19 **87**



Notary Public in and for State of **Pennsylvania**

Residing at **Philadelphia**

I, **J. A. Dally**, 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 **21st** day of **Sept** 19 **87**



Assistant Secretary

UNITED PACIFIC INSURANCE COMPANY

HOME 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 **James M. Kade of Denver, Colorado**

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 **30th** day of **April** 1985.

UNITED PACIFIC INSURANCE COMPANY

Vice President



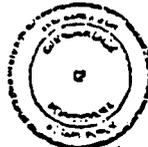
STATE OF **Pennsylvania** }
COUNTY OF **Philadelphia** } ss.

On this **30th** day of **April**, 19 **85** personally appeared **Raymond MacNeil**

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 2, and 3 of the By-Laws of said Company, and the Resolution, set forth therein, are still in full force.

My Commission Expires:

September 28, 19 **87**



Notary Public in and for State of **Pennsylvania**

Residing at **Philadelphia**

J. A. Daily, 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 **21st** day of **September** 19 **87**.



Assistant Secretary

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.



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 84180-1203

COMPANY CODES

- 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

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 South Flower Street, Los Angeles, California 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 checked="" type="checkbox"/> 9	ISL G1 077856-6	01-01-90 to 01-01-93	\$ *See Below Each Person Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence \$ Aggregate—Completed Operations/Products
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 9			
(c) Automobile Liability Owned Automobiles Hired Automobiles Non-owned Automobiles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 9	ISL G1 077856-6	01-01-90 to 01-01-93	\$ *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 checked="" type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 9			
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 9			
(d) **INCLUDES "XCU" COVERAGE					**\$500,000 Combined Single Limit Each 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, (45) forty five 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): **Trail Mountain #9
ACT/015/009**

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.

[Signature]
 Authorized Representative

WATER MONITORING

Beaver Creek Coal Company
Trail Mountain No.9 Mine

WATER MONITORING PROGRAM
TRAIL MOUNTAIN NO. 9 MINE

<u>Station</u>	<u>Location</u>	<u>Type</u>	<u>Frequency</u>	<u>Status</u>	<u>Results to:</u>	<u>Remarks</u>
SW-1	Cottonwood Cyn. Above Mine	Perrenial Stream	Monthly-Field Quart.-Quality	Operational	DOGM	Oil&Grease Quarterly
SW-2	Cottonwood Cyn. Below Mine	Perrenial Stream	Monthly-Field Quart.-Quality	Operational	DOGM	Oil&Grease Quarterly
SW-3	Cottonwood Cyn. Below Mine	Perennial Stream	Monthly-Field Quart.-Quality	Operational	DOGM	Oil&Grease Quarterly
TM-21	Trail Mtn. Sec. 21	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
TM-22	Trail Mtn. Sec.22	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
TM-23	Cottonwood Cyn. Above Roan Cyn.	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
T-6	Trail Mtn. Sec. 2	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
T-10	Trail Mtn. Sec. 26	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter

A7-1-3

8/1/90

Beaver Creek Coal Company
Trail Mountain No.9 Mine

WATER MONITORING PROGRAM (Continued)
TRAIL MOUNTAIN NO. 9 MINE

<u>Station</u>	<u>Location</u>	<u>Type</u>	<u>frequency</u>	<u>Status</u>	<u>Results to:</u>	<u>Remarks</u>
T-14	Trail Mtn. Sec. 25	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
T-14A	Trail Mtn. Sec. 26	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
T-15	Trail Mtn. Sec. 35	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
T-16	Trail Mtn. Sec. 35	Spring	4 Times Annually As Cond. Permit	Operational	DOGM	Inaccessible During Winter
TM-1	Mine Surface Near Portal	Well	Quarterly	Operational	DOGM	
T-18	Straight Cyn. Oliphant Mine	Spring (Mine Discharge)	Quarterly	Operational		
T-19	Straight Cyn. Aquifer Sec. 3	Spring	Quarterly	Operational		
UG-2	Underground	Gr. Water	Quarterly	* Baseline		Operational in 1991
UG-3	Underground	Gr. Water	Quarterly	* Baseline		Operational in 1992

A7-1-4

8/1/90

Beaver Creek Coal Company
Trail Mountain No.9 Mine

WATER MONITORING PROGRAM (Continued)
TRAIL MOUNTAIN NO. 9 MINE

<u>Station</u>	<u>Location</u>	<u>Type</u>	<u>frequency</u>	<u>Status</u>	<u>Results to:</u>	<u>Remarks</u>
26-1P	Trail Mtn. Sec. 26	Pond	Inspections 4 Times/Annum	N/A		Inspections & Photos Only Required
26-2P	Trail Mtn. Sec. 26	Pond	Inspections 4 Times/Annum	N/A		Inspections & Photos Only Required
26-3P	Trail Mtn. Sec. 26	Pond	Inspections 4 Times/Annum	N/A		Inspections & Photos Only Required
26-4P	Trail Mtn. Sec. 26	Pond	Inspections 4 Times/Annum	N/A		Inspections & Photos Only Required
35-1P	Trail Mtn. Sec. 35	Pond	Inspections 4 Times/Annum	N/A		Inspections & Photos Only Required
35-2P	Trail Mtn. Sec. 35	Pond	Inspections 4 Times/Annum	N/A		Inspections & Photos Only Required

*Baseline Analysis to be Performed in Accordance with Division Guidelines.

A7-1-5

8/1/90

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: SW-1
 Location: Up. N.F. Cot. Cr.
 Type: P. Stream
 Frequency: Monthly-Quarterly

Field Measurements	Date Sampled												MEAN
	01/08/91	02/28/91	03/20/91	04/10/91	05/28/91	06/25/91	07/22/91	08/23/91	09/10/91	10/19/91	11/25/91	12/23/91	
Flow [gpm]	8	41	19.2	60	112	29	12.5	37	18	27	18.6	7.2	33.45
PH	7.8	8.1	8	8.1	8.08	7.81	7.8	8.1	8.1	7.6	8	7.9	7.9
Sp. Con. [ohms]	411	910	690	900	410	314	550	650	490	800	810	800	644.5
Temp [C]	0	2	1	1	6	9	8	18	13	3	1	0	5.16
Diss. O. [ppm]	7	8	9	9	8	9	9	9	9	7	7	8	8.25

Lab. Meas. [mg/l]	Sampled				Mean
	02/28/91	05/28/91	08/23/91	11/25/91	
TDS	404	340	394	432	392.5
TSS	2	16	3	4	6.25
O & G	<5	N/R	N/R	N/R	N/R
Al CaCO3	304	282	301	333	305
Hd CaCO3	360	323	357	372	353
Ac CaCO3	0	0	0	0	0
HCO3	371	345	367	407	372.5
CO3	0	0	0	0	0
Cl	16.3	9.23	13.7	12.7	12.9
SO4	69.5	59.7	74.9	69.8	68.4
Ca	75.9	72	62.6	76.6	71.7
Mg	41.5	35	48.7	43.9	42.2
K	1.58	1.59	1.96	1.65	1.69
Na	16.9	16.3	25.1	18.1	19.1
Cat/An	.11	.46	1.86	1.31	.935
Fe	.07	.24	.09	.25	.162
Mn	.02	<.02	.02	<.02	.02*

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: SW-2
 Location: Mid Property
 Type: P. Stream
 Frequency: Monthly-Quarterly

Field Measurements	Date Sampled												MEAN
	01/08/91	02/25/91	03/20/91	04/10/91	05/28/91	06/25/91	07/22/91	08/23/91	09/10/91	10/19/91	11/25/91	12/23/91	
Flow [gpm]	21	59	32	62	91	118	7.9	47	68	74	27	62	55.74
PH	8.1	8.3	7.9	8.1	8.1	8.1	8	8	8.1	7.8	8	8	8.04
Sp. Con. [ohms]	910	800	790	940	412	960	480	850	720	900	810	840	784.3
Temp [C]	1	2	1	1	5.5	10	8	15.5	13	3	1	2	5.25
Diss. O. [ppm]	8	9	8	10	9	10	8	9	9	7	8	8	8.58

Lab. Meas. [mg/l]	Date Sampled				Mean
	01/27/91	05/28/91	08/23/91	11/25/91	
TDS	552	363	540	508	490
TSS	26	30	56	2	28.5
O & G	<5	<5	<5	<5	<5
Al CaCO3	363	274	227	345	302
Hd CaCO3	469	309	363	416	389
Ac CaCO3	0	0	0	0	0
HCO3	426	335	278	420	364
CO3	8.1	0	0	0	8.1
Cl	26.5	11.7	14.3	19.9	18.1
SO4	135	68.3	230	112	136.3
Ca	79	60.1	81	57	69.2
Mg	66	38.7	39	66.6	52.5
K	3.47	1.68	4.3	3	3.11
Na	38.5	18	51	34.1	35.4
Cat/An	1.53	1.64	.89	.51	1.14
Fe	.3	.38	.45	.15	.32
Mn	.02	<.02	.03	<.02	.025

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: SW-3
 Location: Lower Cottonwood
 Type: P. Stream
 Frequency: Monthly-Quarterly

Field Measurements	Date Sampled												MEAN
	01/08/91	02/28/91	03/20/91	04/10/91	05/28/91	06/25/91	07/22/91	08/23/91	09/10/91	10/19/91	11/25/91	12/23/91	
Flow [gpm]	42	79	67	79	72	126	62.4	120	39	85	68	26	72.1
PH	7.9	8.4	8.1	8.4	7.9	8.2	8.2	7.9	8.1	8	8.1	8.1	8.1
Sp.Con. [ohms]	710	1100	1190	610	943	412	680	1200	840	1050	890	940	813
Temp [C]	1	2	2	1	8	9	9	15	13	3	1	0	5.33
Diss. O. [ppm]	9	9	9	9	9	9	9	9	10	8	8	9	8.9

Lab. Meas. [mg/l]	Date Sampled					Mean
	02/28/91	05/28/91	08/23/91	11/25/91		
TDS	826	578	834	706		736
TSS	3	11	3	1		4.5
O & G	<5	<5	7.4	<5		7.4*
Al CaCO3	349	280	252	310		297.75
Hd CaCO3	569	426	553	493		510.25
Ac CaCO3	0	0	0	0		0
HCO3	426	341	307	378		363
CO3	0	0	0	0		0
Cl	59.2	31.5	33.6	47.9		43.05
SO4	295	194	386	271		286.5
Ca	99.1	75.8	113	82.3		92.55
Mg	78.3	57.8	65.7	70		67.95
K	5.84	2.65	4.3	297		3.94
Na	79.1	48.3	73.8	73.6		68.7
Cat/An	.59	.84	1.28	.21		.73
Fe	.06	.14	.05	.05		.075
Mn	<.02	.02	<.02	<.02		.02*

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: UG-2
 Location: Underground
 Type: Spring
 Frequency: Quar. BL

Field Measurements	Date Sampled				Mean
	03/27/91	06/25/91	09/06/91	01/13/92	
Flow [gpm]	UK	.10	12	7.2	6.43
PH	8	7.9	8.0	7.8	7.93
Sp. Cond. [ohms]	940	490	1000	3000	1357.50
Temp. [C]	3	8	7	7	6.25
Diss. O [ppm]	N/A	N/A	N/A	N/A	N/A

Lab. Meas. [mg/l]

TDS Baseline - See Lab Sheet

TSS

O & G

Al CaCO3

Hd CaCO3

Ac CaCO3

HCO3

CO3

Cl

SO4

Ca

Mg

K

Na

Cat/An

Fe

Mn

WATER MONITORING REPORT

Property: Beaver Creek Coal
 Station: UG-3
 Location: #9 Mine Underground
 Type: Spring
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/27/91	06/25/91	09/6/91	01/13/92	
Flow [gpm]	UK	22	.25	1.9	8.05
PH	7.9	7.9	8.5	8.1	8.10
Sp. Cond. [ohms]	1120	410	600	500	657.50
Temp. [C]	3	9	7	6	6.25
Diss. O [ppm]	N/A	N/A	N/A	N/A	N/A

Lab. Meas. [mg/l]

TDS Baseline - See Lab Sheets

TSS

O & G

Al CaCO3

Hd CaCO3

Ac CaCO3

HCO3

CO3

Cl

SO4

Ca

Mg

K

Na

Cat/An

Fe

Mn

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: TM-1
 Location: Well #1 Portal
 Type: Well
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	02/28/91	05/28/91	08/23/91	11/25/91	
Flow [fs]	18' 8"	22	23.5	18.5	20.67
PH	8.2	7.9	8.2	8.2	8.125
Sp. Cond. [ohms]	640	1460	1320	1300	1180
Temp. [C]	3	8	12	5	7
Diss. O [ppm]	N/A	N/A	N/A	N/A	N/A

Lab. Meas. [mg/l]						
TDS		398	654	748	762	640.5
TSS		30	89	158	42	79.75
O & G		N/R	N/R	N/R	N/R	N/R
Al	CaCO3	260	423	493	487	415.75
Hd	CaCO3	96.8	100	82.9	67.6	86.83
Ac	CaCO3	0	0	0	0	0
HCO3		292	515	597	594	499.5
CO3		12.3	0	2.1	0	7.20
Cl		42.9	92.8	108	106	87.43
SO4		40.3	51.8	52.7	39.9	46.18
Ca		18.6	20.3	19.2	15	18.28
Mg		12.3	12	8.54	7.36	10.05
K		7.27	3.1	3.05	2.83	4.06
Na		121	232	285	285	230.75
Cat/An		.97	.16	.45	.92	.63
Fe		.36	3.6	2.63	1.21	1.95
Mn		<.02	.03	.08	<.02	.06*

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: T-15
 Location: Trough
 Type: Spring
 Frequency: 4 Times/Year

Field Measurements	Date Sampled				Mean
	06/26/91	07/25/91	08/23/91	09/25/91	
Flow [gpm]	.75	.75	.50	.5	.625
PH	7.8	8	8.1	8.1	8
Sp. Cond. [ohms]	720	740	930	800	797.5
Temp. [C]	13	12	14	9	12
Diss. O [ppm]	N/A	N/A	N/A	N/A	N/A

Lab. Meas. [mg/l]					
TDS	200	428	460	490	394.5
TSS	1	<1	<1	<1	<1
O & G	N/A	N/A	N/A	N/A	N/A
Al CaCO3	232	328	330	330	305
Hd CaCO3	235	246	248	249	244.5
Ac CaCO3	0	0	0	0	0
HCO3	283	400	403	403	372.3
CO3	0	0	0	0	0
Cl	20.3	42.6	39.5	43.6	36.5
SO4	10.3	51	50.6	49.8	40.4
Ca	50	44.7	46.2	46	46.73
Mg	26.7	32.6	32.4	32.5	31.05
K	.51	1.25	1.02	.78	.89
Na	15.9	91.9	94.7	87.2	72.43
Cat/An	.25	.65	1.87	.51	.82
Fe	.06	.07	<.05	.04	.06
Mn	<.02	<.02	<.02	<.02	<.02

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: T-18
 Location: Old Portal
 Type: Spring
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	02/28/91	05/28/91	08/23/91	11/25/91	
Flow [gpm]	4.7	1.2	2.5	2.6	2.75
PH	7.9	8.1	8.1	7.9	8.00
Sp. Cond. [ohms]	680	865	750	940	808.75
Temp. [C]	3	10	13	5	7.75
Diss. O [ppm]	N/A	N/A	N/A	N/A	N/A

Lab. Meas. [mg/l]						
TDS		407	408	410	418	410.75
TSS		18	5	3	21	11.75
O & G		N/A	N/A	N/A	N/A	N/A
Al	CaCO3	253	257	261	252	255.75
Hd	CaCO3	325	327	337	316	326.25
Ac	CaCO3	0	0	0	0	0
HCO3		309	314	318	307	312
CO3		0	0	0	0	0
Cl		12.3	5.98	6	6.52	7.70
SO4		112	118	113	113	114
Ca		71.3	69.4	70.3	67.1	69.53
Mg		35.9	37.5	39.2	36.1	37.18
K		3.55	3.3	3.56	3.52	3.48
Na		20.2	19.7	24.4	21	21.33
Cat/An		1.67	1.83	.99	1.69	1.55
Fe		.06	.07	.42	.16	.18
Mn		<.02	<.02	<.02	.06	.06*

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: T-19
 Location: Straight Canyon
 Type: Stream
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	02/28/91	05/28/91	07/25/91	11/22/91	
Flow [gpm]	18.7	14	35	42	27.43
PH	8.2	8.4	8.3	8.1	8.25
Sp. Cond. [ohms]	1064	610	830	1100	901
Temp. [C]	2	9	18	2	7.75
Diss. O [ppm]	8	8	9	7	8

Lab. Meas. [mg/l]					
TDS	888	492	530	654	641
TSS	<1	10	68	12	22.50
O & G	N/A	N/A	N/A	N/A	N/A
Al CaCO3	345	294	302	329	317.50
Hd CaCO3	496	325	345	368	383.50
Ac CaCO3	0	0	0	0	0
HCO3	422	340	359	401	380.50
CO3	0	9	5.1	0	7.05
Cl	67.4	28.5	43.4	37	44.08
SO4	344	127	173	202	211.50
Ca	58.9	40.1	34.5	50.5	46.00
Mg	84.9	54.8	63	58.9	65.40
K	3.09	2.22	3.07	3.2	2.90
Na	132	64.9	81.1	94.1	93.03
Cat/An	.74	.1	1.84	1.25	.98
Fe	<.04	.17	1.11	.57	.62*
Mn	<.02	<.02	.03	<.02	.03*

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: TM-21
 Location: Trail Mt. Trough
 Type: Spring
 Frequency: 4 Times/Year

Field Measurements	Date Sampled				Mean
	06/18/91	07/25/91	08/23/91	11/25/91	
Flow [gpm]	<.1	DRY	DRY	DRY	<.1
PH	8.02				8.02
Sp. Cond. [ohms]	720				720
Temp. [C]	10				10
Diss. O [ppm]	N/R				N/R

Lab. Meas. [mg/l]

TDS	386	386
TSS	8	8
O & G	N/R	N/R
Al CaCO3	328	328
Hd CaCO3	259	259
Ac CaCO3	0	0
HCO3	400	400
CO3	0	0
Cl	29.4	29.4
SO4	17.1	17.1
Ca	49.4	49.4
Mg	32.9	32.9
K	2.37	2.37
Na	58.6	58.6
Cat/An	.34	.34
Fe	.34	.34
Mn	<.02	<.02

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: T-6
 Location: Trough-Spring
 Type: Spring
 Frequency: 4 Time/Year

Field Measurements	Date Sampled				MEAN
	06/17/91	07/25/91	08/23/91	09/25/91	
Flow [gpm]	18	1.2	.25	.33	4.95
PH	8	8.1	8.1	8	8.05
Sp. Cond. [ohms]	900	990	1020	900	952.50
Temp. [C]	8	12	15	12	11.75
Diss. O [ppm]	N/R	N/R	N/R	N/R	N/R

Lab. Meas. [mg/l]					
TDS	538	532	560	604	558.50
TSS	6	3	139	7	38.75
O & G	N/R	N/R	N/R	N/R	N/R
Al CaCO3	345	341	354	322	340.50
Hd CaCO3	399	396	408	406	402.25
Ac CaCO3	0	0	0	0	0
HCO3	422	416	431	393	415.50
CO3	0	0	0	0	0
Cl	42.2	44.2	40.6	45.8	43.20
SO4	121	127	132	131	127.75
Ca	64.4	66	80.6	70.8	70.45
Mg	57.9	56.2	50.4	55.9	55.10
K	1.53	1.5	1.45	.78	1.32
Na	60.7	62	66.9	61.6	62.80
Cat/An	.24	.29	.7	1.76	.75
Fe	.05	.14	.23	.45	.22
Mn	<.02	<.02	.03	<.02	.03*

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: T-10
 Location: E Trail Mt.
 Type: Spring
 Frequency: 4 Time/Year

Field Measurements	Date Sampled				Mean
	06/17/91	07/25/91	08/23/91	09/25/91	
Flow [gpm]	DRY	DRY	.06	.12	.09
PH			8	8	8
Sp. Cond. [ohms]			800	700	750
Temp. [C]			14	7	10.50
Diss. O [ppm]			N/A	N/A	N/A

Lab. Meas. [mg/l]

TDS			392	418	405
TSS			329	190	274.50
O & G			N/A	N/A	N/A
Al CaCO3			353	359	356
Hd CaCO3			336	334	335
Ac CaCO3			0	0	0
HCO3			431	439	435
CO3			0	0	0
Cl			21.1	24.5	22.80
SO4			27.8	27.6	27.70
Ca			57.5	54.6	56.05
Mg			46.8	48.1	47.45
K			1.45	2.35	1.90
Na			40.7	32.7	36.70
Cat/An			1.68	1.74	1.71
Fe			1.59	5.53	3.56
Mn			.24	.13	.19

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: T-14
 Location: Deep Draw
 Type: Spring
 Frequency: 4 Times/Year

Field Measurements	Date Sampled				Mean
	06/17/91	07/25/91	08/23/91	09/25/91	
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

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: T-14A
 Location: Deep Draw Upper
 Type: Spring
 Frequency: 4 Times/Year

Field Measurements Date Sampled
 06/17/91 07/25/91 08/23/91 09/25/91 MEAN

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

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: T-16
 Location: Trail Mt.
 Type: Spring
 Frequency: 4 Times/Year

Field Measurements	Date Sampled				Mean
	06/17/91	07/25/91	08/23/91	09/25/91	
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

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: TM-21
 Location: Trail Mt. Trough
 Type: Spring
 Frequency: 4 Times/Year

Field Measurements	Date Sampled				Mean
	06/18/91	07/25/91	08/23/91	11/25/91	
Flow [gpm]	<.1	DRY	DRY	DRY	<.1
PH	8.02				8.02
Sp. Cond. [ohms]	720				720
Temp. [C]	10				10
Diss. O [ppm]	N/R				N/R

Lab. Meas. [mg/l]					
TDS		386			386
TSS		8			8
O & G		N/R			N/R
Al	CaCO3	328			328
Hd	CaCO3	259			259
Ac	CaCO3	0			0
HCO3		400			400
CO3		0			0
Cl		29.4			29.4
SO4		17.1			17.1
Ca		49.4			49.4
Mg		32.9			32.9
K		2.37			2.37
Na		58.6			58.6
Cat/An		.34			.34
Fe		.34			.34
Mn		<.02			<.02

WATER MONITORING REPORT

Property: No. 9 Mine
 Station: TM-22
 Location: Trough
 Type: Spring
 Frequency: 4 Times/Year

Field Measurements	Date Sampled				Mean
	06/17/91	07/25/91	08/23/91	09/25/91	
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

WATER MONITORING REPORT

Property: BCCC #9 Mine
 Station: TM-23
 Location: Cottonwood Canyon
 Type: Spring
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	02/28/91	06/17/91	08/23/91	11/25/91	
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

E.I.S. Hydrology
Field Measurements Form

Date 11/25/91

Station # TMM-23

Company PA. Pool - (Beverly Park)

Time 13:40

Flow/Depth (Dry)

pH _____

Specific Conductivity _____

Water Temperature _____

Air Temperature _____

Dissolved Oxygen _____

Type: Spring Stream _____ Well _____ Discharge _____ NPDES _____

Collection Point 1" PVC Pipe

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

Quality Sample Taken: Yes _____ No

Pump Reading _____

Comments No flow

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: D.

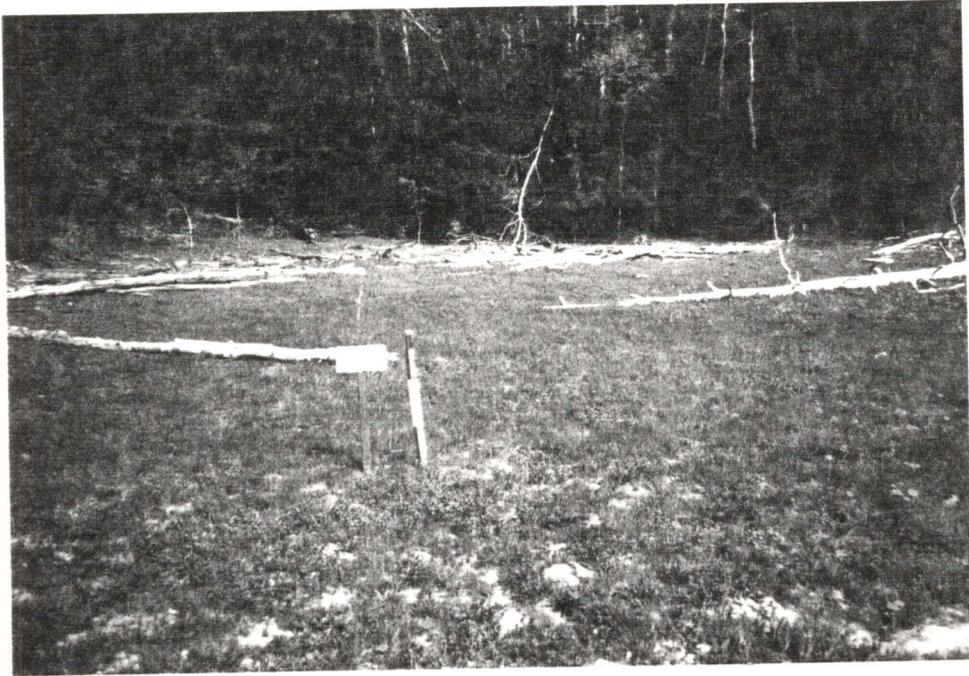
D = Dry F = Frozen N/A = Not Accessable N/R = Not Required



Pond 26-1P
June 18, 1991



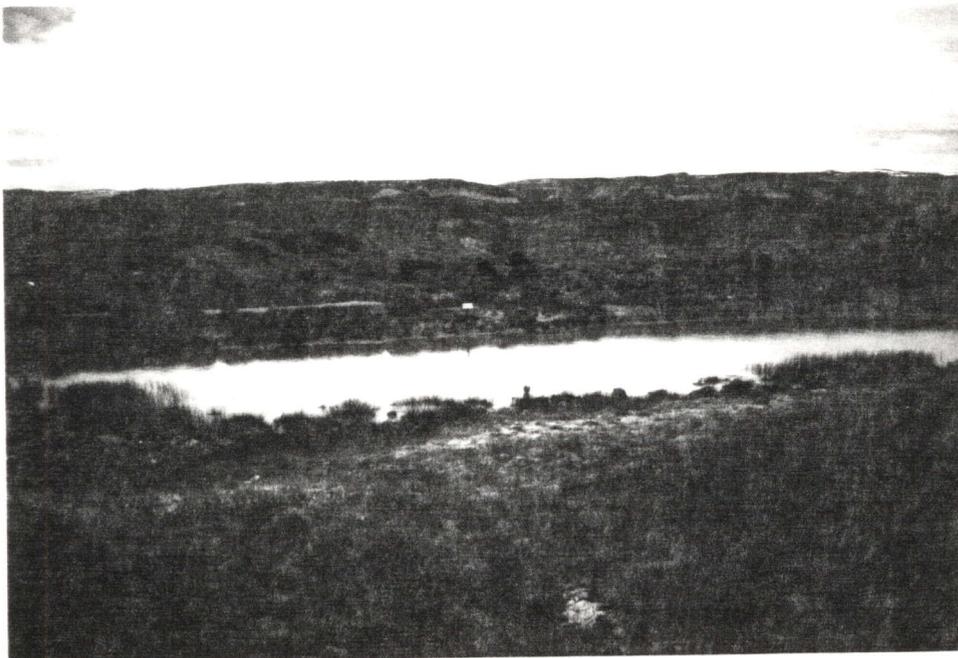
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June 18, 1991



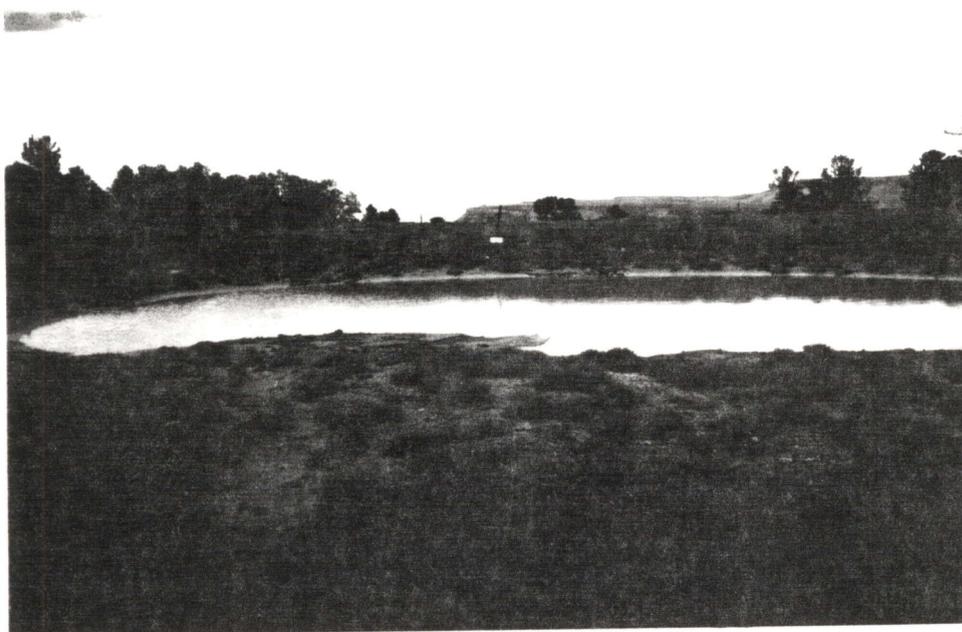
Pond 26-3P
June 18, 1991



Pond 26-4P
June 18, 1991



Pond 35-1P
June 18, 1991



Pond 35-2P
June 18, 1991



Pond 26-1P
July 25, 1991



Pond 26-2P
July 25, 1991



Pond 26-3P
July 25, 1991



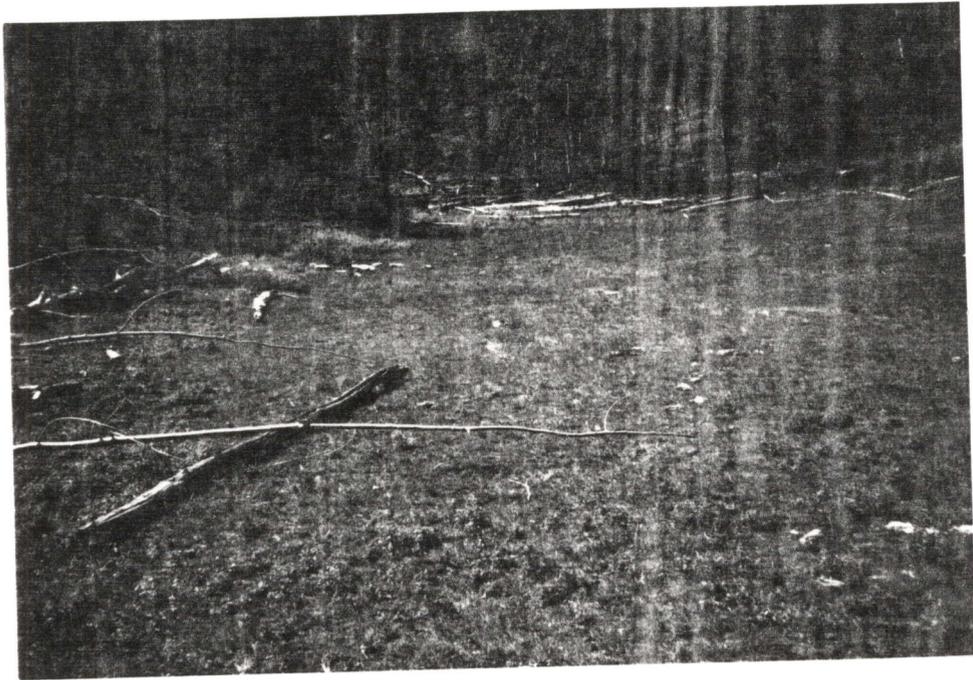
Pond 26-4P
July 25, 1991



Pond 35-1P
July 25, 1991



Pond 35-2P
July 25, 1991



Pond 26-1P
August 23, 1991



Pond 26-2P
August 23, 1991



Pond 26-3P
August 23, 1991



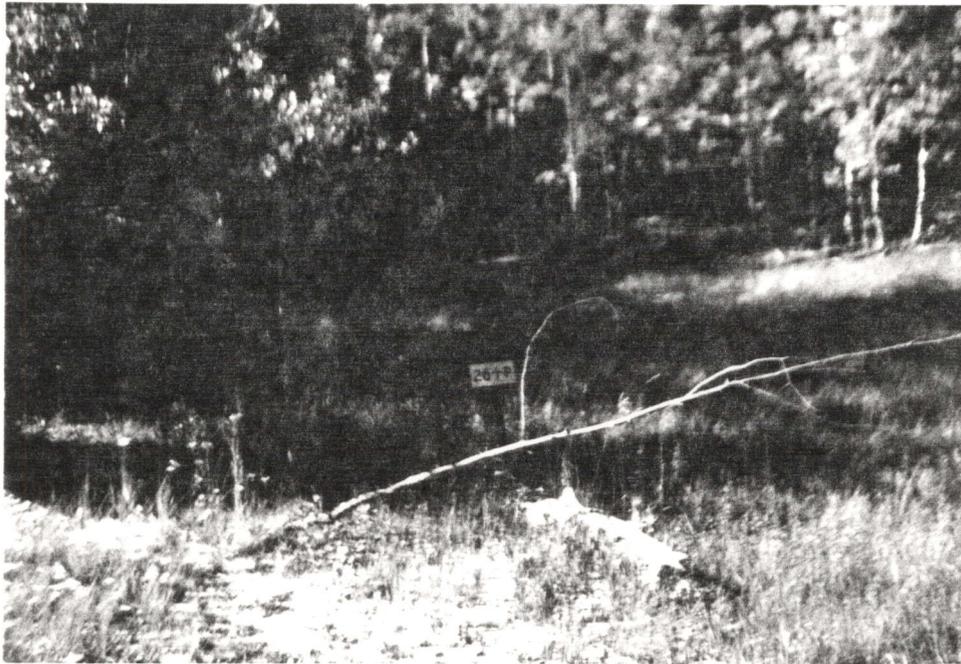
Pond 26-4P
August 23, 1991



Pond 35-1P
August 23, 1991



Pond 35-2P
August 23, 1991



Pond 26-1P
September 10, 1991



Pond 26-2P
September 10, 1991



Pond 26-3P
September 10, 1991



Pond 26-4P
September 10, 1991