

BEAVER CREEK Coal Company

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



March 29, 1990

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: 1989 Annual Report
Gordon Creek No. 3/6 Mines
INA/007/017
Carbon County, Utah

Dear Mr. Braxton:

Enclosed is the Annual Report for Coal Mining and Reclamation Operations for 1989 for the Gordon Creek No. 3/6 Mines.

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

Respectfully,

Dan W. Guy,
Manager, Permitting & Compliance

DWG/pd

cc: Johnny Coffey
File 4-P-5-1-1

RECEIVED
MAR 29 1990
DIVISION OF OIL,
GAS & MINING
PRICE, UTAH

BEAVER CREEK COAL COMPANY
1989 ANNUAL REPORT
GORDON CREEK NO. 3/6 MINES

RECEIVED
MAR 29 1990
DIVISION OF OIL
GAS & MINING
PRICE, UTAH

BEAVER CREEK Coal Company

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



March 29, 1990

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: 1989 Annual Report
Gordon Creek No. 3/6 Mines
INA/007/017
Carbon County, Utah

Dear Mr. Braxton:

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cc: Johnny Coffey
File 4-P-5-1-1

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MAR 29 1990
DIVISION
GAS &
PRICE

COAL MINING AND RECLAMATION OPERATIONS FOR 1989
(Authority UMC 784)

(Must be submitted to the Division by March 31, 1990)

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

Operator:	<u>Beaver Creek Coal Company</u>
Mine Name:	<u>Gordon Creek No. 3/6 Mines</u>
Mailing Address:	<u>P.O. Box 1378, Price, Utah 84501</u>
Company Representative:	<u>Dan W. Guy</u>
Permit Number:	<u>INA/007/017</u>
Date of Most Recent Permanent Program Permit:	<u>9/11/86</u>
Quantity of Coal Mined (tonnage) 1989:	<u>N/A (Mine Closed)</u>

Attach Updated Mine Sequence Map. (N/A)

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

- A. Summarized Water Monitoring Data (Included)
- B. Precipitation or Other Climatological Data (N/A)
- C. Subsidence Monitoring Report (Included)
- D. Vegetation Data (test plots) or Revegetation Success Monitoring (includes interim and final) (Included)
- E. Permit Stipulation Status (Included)

CERTIFICATES OF INSURANCE

Reliance Insurance Companies

RELiance INSURANCE COMPANY
PHILADELPHIA, PENNSYLVANIA

UNITED PACIFIC INSURANCE COMPANY
FEDERAL WAY, WASHINGTON

PLANET INSURANCE COMPANY
FEDERAL WAY, WASHINGTON

RECEIVED

AUG 13 1987

**DIVISION OF OIL
GAS & MINING**

RIDER

To be attached to and form a part of

Type of Bond: Mined Land Reclamation Act Bond

Bond No. U62 98 95

executed by Beaver Creek Coal Company, as Principal,

and by United Pacific INSURANCE COMPANY, as Surety,

in favor of State of Utah Dept. of Natural Resources, Division of Oil, Gas & Mining

and dated April 22, 1983

In consideration of the premium charged for the attached bond, it is hereby agreed to change:

the bond amount

From: Three hundred forty-six thousand and no/100-----dollars

(\$346,000.00)

To: One hundred thirty-eight thousand four hundred and no/100--dollars

(\$138,400.00)

The attached bond shall be subject to all its agreements, limitations and conditions except as herein expressly modified.

This rider is effective June 22, 1987

Signed and Sealed July 13, 1987



Principal Beaver Creek Coal Company

By: Charles B. Smith Title
Vice President
United Pacific INSURANCE COMPANY

By: Patricia L. Barga Attorney-in-Fact
Patricia L. Barga

RIDER ACCEPTED (Please sign duplicate of this Rider and return to Surety)

By:

Date

*Acceptance copy signed
James P. Bruff
8/16*

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

Property Administration

file 3000010



RECEIVED

AUG 13 1987

**DIVISION OF OIL
GAS & MINING**

August 10, 1987

Lowell P. Braxton
Administrator, Mineral Resource Development
and Reclamation Program
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

Re: Bond No. U62 98 95
Phase I Bond Release, Beaver Creek Coal Company,
Gordon Creek No. 3 and No. 6 Mines, Folder #5,
INA/007/019,
Carbon County, Utah

Dear Mr. Braxton:

As authorized by your letter dated June 22, 1987, enclosed is a rider for the above-captioned bond reducing the bond amount to \$138,400. Please sign the rider indicating your acceptance and return the acceptance copy to:

Vivienne Douglas
Johnson & Higgins of Colorado, Inc.
1850 Colorado National Bank Bldg.
950 17th Street
Denver, Colorado 80202

Thank you for your assistance on this bond.

Sincerely,

Mickey L. Love
Senior Lease Administrator

MLL:mjb
enclosure



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

June 22, 1987

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

Dan
Dear Mr. Guy:

Re: Phase I Bond Release, Beaver Creek Coal Company,
Gordon Creek No. 3 and No. 6 Mines, Folder #5,
INA/007/019, Carbon County, Utah

The Division hereby approves the Phase I bond release of \$207,600 (60 percent of the bond) for the Gordon Creek No. 3 and No. 6 Mines. This bond release is effective as of June 26, 1987.

Thank you for your cooperation.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Lowell P. Braxton'.

Lowell P. Braxton
Administrator
Mineral Resource Development
and Reclamation Program

PGL/djh
cc: J. Whitehead
P. Grubaugh-Littig
8808R/8

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

Property Administration

June 24, 1987

RECEIVED
JUN 29 1987

DIVISION OF
OIL, GAS & MINING

Bond
File

#ACT/007/007

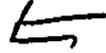
J. Whitehead


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, UT 84180-1203

Re: Old Bond No. 8094-24-79
New Bond No. U629895

Gentlemen:

ARCO has chosen United Pacific Insurance Company to act as its bonding company. As a result, we are replacing bonds previously issued by Federal Insurance Company.

Therefore, please find enclosed a new bond for \$346,000 for Gordon Creek No. 3 and 6 Mines. Please return our bond 8094-24-79 for cancellation. 

Thank you for your assistance.

Sincerely,



Mickey L. Love
Supervisor
Property Administration

MLL/c

Enclosure

RECEIVED
JUN 29 1987

(Revised August 1985)
(Non-Federal)

MR FORM 5

DIVISION OF
OIL, GAS & MINING

Bond Number U-629895
Permit Number _____
PREMIUM: \$1,730.00

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

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 in the penal sum of THREE HUNDRED FORTY SIX THOUSAND AND NO/100
_____ dollars (\$ 346,000.00_____).

The principal estimated in the Mining and Reclamation Plan filed with the
Division of Oil, Gas and Mining on the 22ND day of APRIL
_____, 19 83, that 7.98 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 a duly authorized officer.

THIS BOND IS TO BE EFFECTIVE: APRIL 22, 1987.

BEAVER CREEK COAL COMPANY

Principal (Company)

By Charles B. Smith
Company Officer - Position
Vice President

LEGAL
Da

Date: June 8, 1987

UNITED PACIFIC INSURANCE COMPANY

Surety (Company)

By *W.C.*
Surety Company Officer - Position
W. C. DOYLE, ATTORNEY-IN-FACT

DATE: MAY 13, 1987

APPROVED AS TO FORM:

By Assistant Attorney General

AFFIDAVIT OF QUALIFICATION

W. C. DOYLE, being first duly sworn, on oath deposes and says that he/she is the (officer or agent) ATTORNEY-IN-FACT of said Surety Company, and that he/she is duly authorized to execute and deliver the foregoing obligations; that said Surety Company is authorized to execute the same and has complied in all respects with the laws of Utah in reference to becoming sole surety upon bonds, undertakings and obligations.

(Signed) By *W.C. Doyle*
Surety Company Officer - Position
W. C. DOYLE, ATTORNEY-IN-FACT

Subscribed and sworn to before me this 13TH day of MAY, 1987.



Cora V. Rodriguez
Notary Public

My Commission Expires:

March 24, 1989.

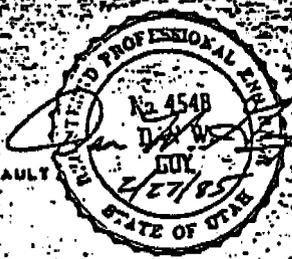
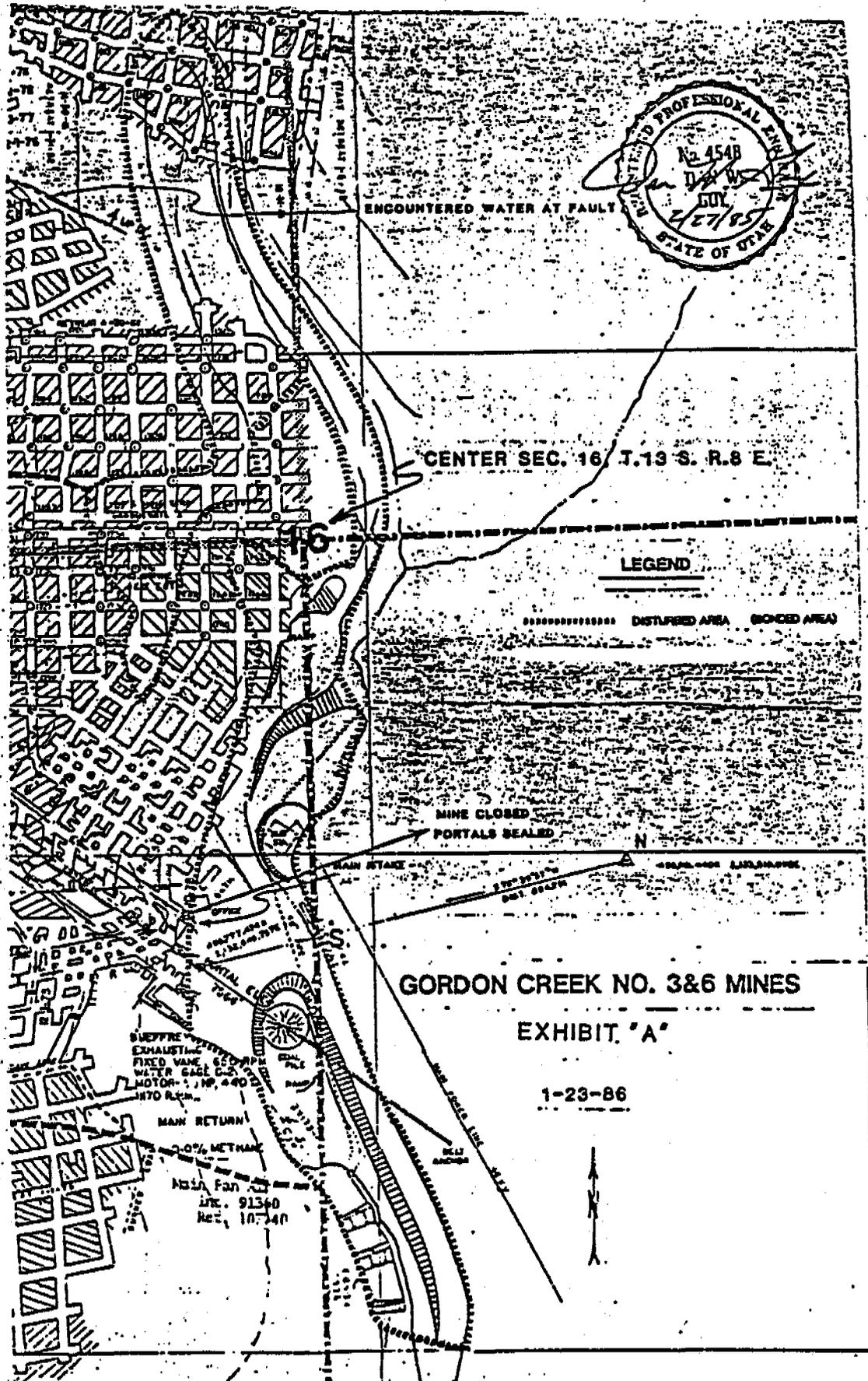
GORDON CREEK NO. 3/6 MINES
EXHIBIT "A"

Disturbed Area - 7.98 acres

Bonded Area - 28.0 Acres (Includes affected areas to be revegetated)

Located in the following described lands:

T. 13 S, R. 8 E., SLBM, Utah
Sec. 16: SE $\frac{1}{4}$ NW $\frac{1}{4}$ (10.36 acres)
Sec. 16: SW $\frac{1}{4}$ NE $\frac{1}{4}$ (1.40 acres)
Sec. 16: NE $\frac{1}{4}$ SW $\frac{1}{4}$ (11.20 acres)
Sec. 16: NW $\frac{1}{4}$ SE $\frac{1}{4}$ (2.80 acres)
Sec. 16: SW $\frac{1}{4}$ SE $\frac{1}{4}$ (2.24 acres)



ENCOUNTERED WATER AT FAULT

CENTER SEC. 16 T.13 S. R.8 E.

LEGEND

..... DISTURBED AREA [Symbol] BORED AREA

MINE CLOSED
PORTALS SEALED

GORDON CREEK NO. 3&6 MINES

EXHIBIT. 'A'

1-23-86

SHEPPE
EXHAUSTING
FIXED VANE 625 RPM
WATER GAGE
MOTOR - 1/2 HP - 440 V
INTO R.C.M.

MAN RETURN

2-0% METANE

Main Fan
LTK. 91340
REV. 10-740

UNITED PACIFIC INSURANCE COMPANY

HOMI. OFFICE, FEDERAL WAY, WASHINGTON

POWER OF ATTORNEY

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

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

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 certify the same of the By-Laws of the Company or any article or section thereof.

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

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

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



UNITED PACIFIC INSURANCE COMPANY

Charles B. Schmalz

Vice President

STATE OF Washington }
COUNTY OF King } ss.

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

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

My Commission Expires:

June 12, 1982



Nancy Starnes

Notary Public in and for State of Washington

Residing at Tacoma

Charles J. Falskow

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

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 13TH day of MAY 19 87



Assistant Secretary *Charles J. Falskow*

CERTIFICATE OF INSURANCE 11-28-89 mjt
 This Certificate of Insurance neither affirmatively nor negatively amends, extends or alters the coverage, limits, terms or conditions of the policies it certifies.)

CIGNA Property and Casualty Companies



RECEIVED
 DEC 05 1989

This is to Certify to

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

DIVISION OF
 OIL, GAS & MINING

- 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)

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

NAME AND ADDRESS OF INSURED
 Atlantic Richfield Company, its Subsidiaries and subsidiaries thereof as now or hereinafter constituted, Atlantic Richfield Plaza, 515 So. Flower Street, Los Angeles, CA 90071
 covering in accordance with the terms thereof, at the following location(s):

Including Beaver Creek 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)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ISL G1 077856-6	01-01-90 to 01-01-93	\$ *See Below	Each Person Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence	
	Independent Contractors	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
	Completed Operations/Products	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
	Contractual, (Specific type as described in footnote below)	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
Property Damage Premises—Operations (including "Incidental Contracts" as defined below)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ISL G1 077856-6	01-01-90 to 01-01-93	\$ *See Below	Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence	
	Independent Contractors	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
	Completed Operations/Products	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
	Contractual, (Specific type as described in footnote below)	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
(c) Automobile Liability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ISA 001903	01-01-90 to 01-01-93	\$ *See Below	Each Person Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence	
	Owned Automobiles	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
	Hired Automobiles	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
Property Damage Owned Automobiles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ISA 001903	01-01-90 to 01-01-93	\$ *See Below	Each { <input type="checkbox"/> Accident <input type="checkbox"/> Occurrence	
	Hired Automobiles	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
	Non-owned Automobiles	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
(d) SEE REVERSE					*2,000,000 Combined Single Limit per occurrence subject to aggregate of \$2,000,000, 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:

It is the intention of the company that in the event of cancellation of the policy or policies by the company, ten (10) 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) _____

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

Revised November, 1987.

CERTIFICATE OF LIABILITY INSURANCE

Issued to:
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
--ooOoo--

THIS IS TO CERTIFY THAT:

Insurance Company of North America

(Name of Insurance Company)

1600 Arch Street, Philadelphia, PA 19101

(Home Office Address of Insurance Company)

HAS ISSUED TO:

BEAVER CREEK COAL CO.

(Name of Permit Applicant)

GORDON CREEK No. 3/6 MINES

(Mine Name)

INA/007/017

(Permit Number)

CERTIFICATE OF INSURANCE:

HDO GO 969065-7

(Policy Number)

1-1-88

(Effective Date)

UNDER THE FOLLOWING TERMS AND CONDITIONS:

As Per UMC/SMC Part 800.60 Terms and Conditions for Liability Insurance;

- A. The Division shall require the applicant to submit as part of its permit application a certificate issued by an insurance company authorized to do business in the state of Utah certifying that the applicant has a public liability insurance policy in force for the surface coal mining and reclamation operations for which the permit is sought. Such policy shall provide for personal injury and property damage protection in an amount adequate to compensate any persons injured or property damaged as a result of the surface coal mining and reclamation operations, including the use of explosives and who are entitled to compensation under the applicable provisions of state law. Minimum insurance coverage for bodily injury and property damage shall be \$300,000 for each occurrence and \$500,000 aggregate.
- B. The policy shall be maintained in full force during the life of the permit or any renewal thereof, including the liability period necessary to complete all reclamation operations under this chapter.

Page 2.
CERTIFICATE OF LIABILITY INSURANCE

C. The policy shall include a rider requiring that the insurer notify the Division whenever substantive changes are made in the policy including any termination or failure to renew.

IN ACCORDANCE WITH THE ABOVE TERMS AND CONDITIONS, and the Utah Code Annotated 40-10-1 et seq., the Insurance Company hereby attests to the fact that coverage for said Permit Applicant is in accordance with the requirements of the State of Utah and agrees to notify the Division of Oil, Gas and Mining in writing of any substantive change, including cancellation, failure to renew, or other material change. No change shall be effective until at least thirty (30) days after such notice is received by the Division.

UNDERWRITING AGENT:

M. J. Morehouse

213-739-4630

(Agent's Name)

(Phone)

Insurance Company of North America

(Company Name)

3333 Wilshire Blvd

Los Angeles, CA 90010

(Mailing Address)

(City, State, Zip Code)

The undersigned affirms that the above information is true and complete to the best of his or her knowledge and belief, and that he or she is an authorized representative of the above-named insurance company.

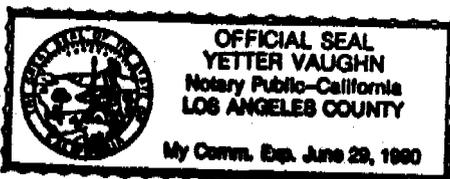
1-27-88 M. J. Morehouse - Account Manager
(Date, Signature and Title of Authorized Agent of Insurance Company)

Signed and sworn before me by

M. J. MOREHOUSE

(Name)

this 27th day of January, 1988



Yetter Vaughn
(Signature)

My Commission Expires:

June 29, 1990
(Date)

1989

WATER MONITORING DATA

WATER MONITORING REPORT

Property: BCCC #3 Mine
 Station: 3-1W
 Location: Coal Canyon Above P
 Type: E. Stream
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/14/89	05/23/89	08/10/89	11/25/89	

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 #3 Mine
 Station: 3-4W
 Location: Coal Canyon
 Type: E. Stream
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/14/89	05/23/89	08/10/89	11/28/89	
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

BEAVER CREEK Coal Company

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



October 26, 1989

Donald A. Hilden, Ph.D., Chief
Permits and Compliance Section
Bureau of Water Pollution Control
Utah Division of Environmental Health
288 North 1460 West
P.O. Box 16690
Salt Lake City, Utah 84116-0690

Dear Mr. Hilden:

Enclosed Please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's UPDES Permit Numbers UTG040003, UTG040004, and UTG040005. These were formally NPDES Permits UT-0023728, UT-0023124 and UT-0023949, respectively. Former permit numbers UT-0023116 and ~~UT-0023060~~ have now been cancelled. These reports are on the preprinted DMRs provided by the State of Utah, and cover the third quarter of 1989.

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

Respectfully,

Dan W. Guy
Mgr. Permitting/Compliance

DWG/cr

Enclosures

cc: Donna Franklin, E.P.A.
Lowell Braxton, UDGOM
File

BEAVER CREEK Coal Company

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



October 26, 1989

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

WM-C
~~WC-C~~

Dear Ms. Franklin:

Enclosed Please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's UPDES Permit Numbers UTG040003, UTG040004, and UTG040005. These were formally NPDES Permits UT-0023728, UT-0023124 and UT-0023949, respectively. Former permit numbers UT-0023116 and UT-0023060 have now been cancelled. These reports are on the preprinted DMRs provided by the State of Utah, and cover the third quarter of 1989.

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

Respectfully,

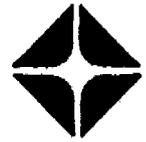
Dan W. Guy
Mgr. Permitting/Compliance

DWG/cr

Enclosures

File 4-E-2-1

BEAVER CREEK Coal Company
WTRMONT
Post Office Box 1378
Price, Utah 84501
Telephone 801 637-5050



October 26, 1989

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

Dear Mr. Braxton:

Enclosed Please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's UPDES Permit Numbers UTG040003, UTG040004, and UTG040005. These were formally NPDES Permits UT-0023728, UT-0023124 and UT-0023949, respectively. Former permit numbers UT-0023116 and UT-0023060 have now been cancelled. These reports are on the preprinted DMRs provided by the State of Utah, and cover the third quarter of 1989.

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

Respectfully,

Dan W. Guy
Mgr. Permitting/Compliance

DWG/cr

Enclosures

BEAVER CREEK Coal Company

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



July 31, 1989

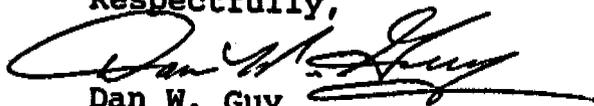
Ms. Donna Franklin
U.S.E.P.A., Region VIII
999 18th Street
Denver Place - Suite 500 WM-C
Denver, CO 80202-2405

Dear Ms. Franklin:

Enclosed please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's NPDES Discharge Permit Numbers UT-0023949, UT-023116, UT-0023124, UT-0023060 and UT-0023728. These reports cover the second quarter of 1989.

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

Respectfully,


Dan W. Guy
Manager of Permits and Compliance

DWG/cr

Enclosures

File 4-E-2-1
WTRMON

BEAVER CREEK Coal Company

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



July 31, 1989

Mr. Fred Pehrson
Utah Division of Environmental Health
Water Quality Section
P.O. Box 2500, Suite 350
150 West North Temple
Salt Lake City, Utah 84110-2500

Dear Mr. Pehrson:

Enclosed please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's NPDES Discharge Permit Numbers UT-0023949, UT-023116, UT-0023124, UT-0023060 and UT-0023728. These reports cover the second quarter of 1989.

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

Respectfully,

Dan W. Guy
Manager of Permits and Compliance

DWG/cr

Enclosures

File 4-E-2-1
WTRMON

BEAVER CREEK Coal Company

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



July 31, 1989

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

Dear Mr. Braxton:

Enclosed please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's NPDES Discharge Permit Numbers UT-0023949, UT-023116, UT-0023124, UT-0023060 and UT-0023728. These reports cover the second quarter of 1989.

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

Respectfully,

Dan W. Guy
Manager of Permits and Compliance

DWG/cr

Enclosures

File 4-E-2-1
WTRMON

PERMITTEE NAME/ADDRESS (Include Facility Name and location if different)

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

Form Approved OMB No. 158-R

NAME Ver Creek Coal Company
 ADDRESS P.O. Box 1378
Price, Utah 84501
 FACILITY Gordon Creek 3 & 6
 LOCATION Coal Canyon

UT 0023060
 PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
89	06	01	89	06	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (48-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMP TYP (69-71)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW		NO DISCHARGE									
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Dan W. Guy
Mngr. Permitting/Compliance
 TYPED OR PRINTED

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

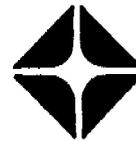
Dan W. Guy
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 801 637-5050
 DATE: 89 07 22
 AREA CODE: 801
 NUMBER: 637-5050
 YEAR: 89
 MO: 07
 DAY: 22

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

BEAVER CREEK Coal Company

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



May 3, 1989

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

Dear Ms. Franklin:

Enclosed please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's NPDES Discharge Permit Numbers UT-0023949, UT-023116, UT-0023124, UT-0023060 and UT-0023728. These reports cover the first quarter of 1989.

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

Respectfully,

Dan W. Guy
Manager of Permits and Compliance

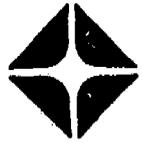
DWG/cr

Enclosures

File 4-E-2-1
WTRMON

BEAVER CREEK Coal Company

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



May 3, 1989

Mr. Fred Pehrson
Utah Division of Environmental Health
Water Quality Section
P.O. Box 2500, Suite 350
150 West North Temple
Salt Lake City, Utah 84110-2500

Dear Mr. Pehrson:

Enclosed please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's NPDES Discharge Permit Numbers UT-0023949, UT-023116, UT-0023124, UT-0023060 and UT-0023728. These reports cover the first quarter of 1989.

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

Respectfully,

Dan W. Guy
Manager of Permits and Compliance

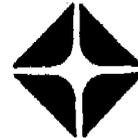
DWG/cr

Enclosures

File 4-E-2-1
WTRMON

BEAVER CREEK Coal Company

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



May 3, 1989

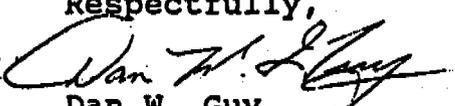
Mr. Lowell Braxton, Administrator
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Braxton:

Enclosed please find Quarterly Discharge Monitoring Reports for Beaver Creek Coal Company's NPDES Discharge Permit Numbers UT-0023949, UT-023116, UT-0023124, UT-0023060 and UT-0023728. These reports cover the first quarter of 1989.

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

Respectfully,


Dan W. Guy
Manager of Permits and Compliance

DWG/cr

Enclosures

File 4-E-2-1
WTRMON

PERMITTEE NAME AND ADDRESS (Include Facility Name/Location if different)

NAME BEAR CREEK COAL COMPANY
 ADDRESS P.O. Box 1378
PRICE, UTAH 84501

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

(2-16) (17-19)

UT0023060
 PERMIT NUMBER

001
 DISCHARGE NUMBER

Form Approved
 2040-0004
 expires 9-30-85

FACILITY GORDON CREEK #3 & 6
 LOCATION COAL CANYON

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
89	01	01		89	03	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
		NO DISCHARGE								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Dan W. Guy
Manager Permitting/Compliance
 TYPED OR PRINTED

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

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

TELEPHONE
801 637-5050
 AREA CODE NUMBER
 DATE
89 04 17
 YEAR MO DAY

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

POND:

#36

LOCATION:

Coalington

ITEM

REMARKS

Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance Performance Standards

Good
Ponds Dry

(5) Recommendations/Comments

None -
No Damage

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

[Signature]
Date: 8/18/92

POND INSPECTION REPORT

POND: 306

LOCATION: Ballenger
3-1-W & 3-2-W

ITEM

REMARKS

(1) Potential Safety Hazards

Unknown
(Over-Transmittable)

(2) Slope Stability

(3) Erosion

(4) Construction and Maintenance Performance Standards

(5) Recommendations/Comments

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

[Signature]

1/24/89
[Signature]

POND INSPECTION REPORT

POND: #306

LOCATION: Carl Canyon

ITEM
(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance Performance Standards

Good

(5) Recommendations/Comments

Pond dry -
muddy in bottom
upper cell

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

[Signature]
10/30/89
Date

POND INSPECTION REPORT

ID: #3 Beaver Dam

LOCATION: Coal Canyon

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

Minor on inlet
Repair in progress

(4) Construction and Maintenance
Performance Standards

Upper Cell - 10" Water
Level

(5) Recommendations/Comments

No Discharge

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

[Signature]
8/10/89

POND INSPECTION REPORT

POND: B-6

LOCATION: Coal Canyon

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

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

[Signature]
Date 7/8/89

POND INSPECTION REPORT

POND: 23

LOCATION: Coal Trg.

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance Performance Standards

Good

(5) Recommendations/Comments

Dry - No Discharge

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

[Signature]
6/20/09

POND INSPECTION REPORT

#396

LOCATION: *Local Entry*

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance Performance Standards

Good

(5) Recommendations/Comments

None
NO Discharge

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

Michael P. Casner

5/24/89

POND INSPECTION REPORT

POND: 3/6

LOCATION: Paul Canyon

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None - 30% Snow Covered</u>
(4) Construction and Maintenance Performance Standards	<u>Good - Large Snow drift upper end of 1st Cell Ponds Dry</u>
(5) Recommendations/Comments	<u>No Discharge</u>

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

[Signature]
3/4/89

POND INSPECTION REPORT

POND: 306

LOCATION: Collins

ITEM
(1) Potential Safety Hazards

REMARKS
Unknown
(Over Troumable)

(2) Slope Stability

(3) Erosion

(4) Construction and Maintenance Performance Standards

(5) Recommendations/Comments

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

[Signature]

1/24/89
Date

1989

PERMIT / STIPULATION STATUS

NON-FEDERAL
(February 1985)

Permit Number INA/007/017, 9/86

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, INA/007/017, is issued for the state of Utah by the Utah Division of Oil, Gas and Mining (DOGM) to:

Beaver Creek Coal Company

P. O. Box 1378

Price, Utah 84501

for the Gordon Creek #3 and #6 Mines, Beaver Creek Coal Company is the lessee of state coal lease 27342 and certain fee owned parcels. The permit is not valid until a performance bond is filed with the Division of Oil, Gas and Mining in the amount of or exceeding \$337,967.00, payable to the state of Utah, Division of Oil, Gas and Mining and the DOGM has received 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 UCMRA.

Sec. 2 The permittee is authorized to conduct surface coal mining and reclamation operations on the following described lands within the permit area at the Gordon Creek 3 & 6 Mines situated in the state of Utah, Carbon County, and located:

Township 13 South, Range 8 East, SLBM

Section 8: SE 1/4 SE 1/4

Section 9: S 1/2 SW 1/4, SW 1/4 SE 1/4

Section 16: SE 1/4 NW 1/4, SW 1/4 NE 1/4, N 1/2 NW 1/4, SW 1/4, SW 1/4 NW 1/4

Portions of SW 1/4 SE 1/4, Portions of NW 1/4 SE 1/4
Section 17: NE 1/4 NE 1/4, SE 1/4 NE 1/4, NE 1/4 SE 1/4

Section 21: Portions of W 1/2 NE 1/4, Portions of SE 1/4 NW 1/4

This legal description is for the permit boundary (as shown on the permit area map) of the Gordon Creek 3 & 6 Mines. The permittee is authorized to conduct surface and reclamation operations connected with mining on the foregoing described property subject to the conditions of the leases, the approved mining plan, including all conditions and all other applicable conditions, laws and regulations.

- Sec. 3 This permit is issued for a term of five (5) years commencing on the date the permit is signed by the permittee, except that this permit will terminate if the permittee has not begun the surface coal mining and reclamation operations covered herein within three (3) years of the date of issuance.
- Sec. 4 The permit rights may not be transferred, assigned or sold without the approval of the Director, DOGM. Request for transfer, assignment or sale of permit rights must be done in accordance with applicable regulations including but not limited to UMC 788.17-.19.
- Sec. 5 The permittee shall allow the authorized representative of the DOGM, including but not limited to inspectors, 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 UMC 840.12, and UMC 842.13; and,
 - B. be accompanied by private persons for the purpose of conducting an inspection in accordance with UMC 842.12, when the inspection is in response to an alleged violation reported by the private person.
- Sec. 6 The permittee shall conduct surface coal mining and reclamation operations only on those lands specifically designated as within the permit area on the maps submitted in the mining plan and permit application and approved for the term of the permit and which are subject to the performance bond.

- Sec. 7 The permittee shall minimize any adverse impact to the environment or public health and safety resulting from noncompliance, including but not limited to:
- A. accelerated monitoring to determine the nature and extent of noncompliance and the results of the noncompliance;
 - B. immediate implementation of measures necessary to comply; and
 - C. warning, as soon as possible after learning of such noncompliance, any person whose health and safety is in imminent danger due to the noncompliance.
- Sec. 8 The permittee shall dispose of solids, sludge, filter backwash or pollutants in the course of treatment or control of waters or emissions to the air in the manner required by the approved Utah State Program which prevents violation of any applicable State law.
- Sec. 9 The lessee shall conduct its operations:
- A. in accordance with the terms of the permit to prevent significant, imminent environmental harm to the health and safety of the public; and
 - B. utilizing methods specified as conditions of the permit by DOGM in approving alternative methods of compliance with the performance standards of the Act and the approved Utah State Program.
- Sec. 10 The permittee shall provide the names, addresses and telephone numbers of persons responsible for operations under the permit to whom notices and orders are to be delivered.
- Sec. 11 The permittee shall comply with the provisions of UCA 26-11-1 et seq (Water Pollution Control) and UCA 26-13-1 et seq (Clean Air).
- Sec. 12 Upon expiration, this permit may be renewed for areas within the boundaries of the existing permit in accordance with the Act and the approved Utah State Program.

- Sec. 13 If during the course of mining operations, previously unidentified cultural resources are discovered, the applicant shall ensure that the site(s) is (are) not disturbed and shall notify the State Regulatory Authority (RA). The state RA shall inform the operator of necessary actions required.
- Sec. 14 APPEALS - The lessee shall have the right to appeal Division actions as provided under UMC 787.
- Sec. 15 SPECIAL CONDITIONS - In addition to the general obligations and of performance set out in the leases, and this permit, the permittee shall comply with the special conditions appended hereto as Attachment A.

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

THE STATE OF UTAH

By:

James R. Nielson

Date:

9-11-86

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

Authorized Representative of
the Permittee

Date: _____

APPROVED AS TO FORM:

BY:

Paul W. Roberts
Assistant Attorney General

Date:

September 11, 1986

0893R

Attachment A

STIPULATIONS

Beaver Creek Coal Company
Gordon Creek No. 3 and 6 Mines
INA/007/017
Carbon County, Utah

September 10, 1986

Stipulations UMC 817.46-(1,2)-JRF

1. The sediment ponds shall be constructed by October 31, 1986 so that at least 3.83 acre feet of sediment and runoff can be retained in the ponds and so that a 24 inch cmp riser is installed for the principle spillway.
2. Within 30 days of final pond construction, the applicant shall submit as-built pond designs certified by a Professional Engineer. The designs shall show pond contours with a contour interval no greater than two feet. The as-built designs shall at a minimum contain:
 - a. sideslope characterizations
 - b. section and plan views
 - c. scale of 1" = 20'
 - d. pond floor elevation and dimensions
 - e. bank elevation
 - f. complete spillway dimensions
 - g. sediment levels and markers for both ponds

Stipulation UMC 817.48-(1)-DD

1. During the backfilling and grading portion of the reclamation at the Gordon Creek #3 and #6 mine site, but no later than October 31, 1986, the applicant shall bury the material which was the subject of Notice of Violation N85-8-17-1 with a minimum of 4 feet of non-toxic and nonacid-forming material

Stipulations UMC 817.52-(1,2)-JRF

Surface Water

1. Within 30 days of permit approval, the applicant shall submit a revised surface water parameter list that includes total dissolved solids.
2. Within 30 days of permit approval, the applicant shall submit a revised surface water monitoring program that incorporates an additional monitoring station at the sediment pond entrance. Sampling of this station shall be initiated upon permit approval utilizing the quarterly frequency for other surface water monitoring.

Stipulation UMC 817.113-(1)-KMM

1. Within 30 days of permit approval, the applicant shall submit amended pages 3-37 or 3-37b to clarify when planting of willow cuttings will occur.

Stipulation UMC 817.114-(1)-KMM

1. On all areas to be mulched, the applicant shall apply no less than 3000 lbs/acre of wood fiber mulch after seeding during final reclamation of the site.

Stipulation UMC 817.150-.156-(1)-PGL

1. Within 30 days of permit approval, the applicant shall provide amended page 3-37a which will specifically describe where the Class II road extending from within the permit area to the main Gordon Creek road will be graveled.

0888R

BEAVER CREEK Coal Company

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



December 29, 1986

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

Re: Permit Approval Stipulation
Gordon Creek No. 3 & 6 Mines
INA/007/017, #2 & #4
Carbon County, Utah

Dear Mr. Braxton:

Enclosed are eight copies of the Beaver Creek Coal response to Stipulation UMC 817.46 - (1,2) - JRF. This is a new plate, representing the final pond construction, and should be added to Chapter 7 of the approved plan.

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

Respectfully,

Dan W. Guy
Manager Permitting/Compliance

DWG/rs

cc: Jay Marshall
✓ File



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 20, 1986

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

Dear Mr. Guy:

RE: Stipulation Responses, Beaver Creek Coal Company, Gordon Creek
No. 3 & 6 Mines, INA/007/017, Folder 2 and 4, Carbon County Utah

The Division has reviewed responses for stipulations 817.52, 817.113, 817.114, and 817.150-156, contained in your letter of October 27, 1986. The material submitted adequately addresses these stipulations.

In addition, your letter notes the material which was the subject of stipulation UMC 817.48-(1)-DD has been buried with at least four feet of non-toxic, or non-acid forming material. This action adequately addresses this stipulation.

The only item which will require any further response in regards to stipulations for this permit are the as-built pond designs and drawings to be submitted within 30 days of pond construction.

Sincerely,

John J. Whitehead
Permit Supervisor/
Reclamation Hydrologist

djh

Phil Ralphs
Rick Smith
0844R/52

BEAVER CREEK Coal Company

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



October 27, 1986

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

Re: Permit Approval Stipulations
Gordon Creek No. 3 & 6 Mines
INA/007/017, #2 & #4
Carbon County, Utah

Dear Mr. Braxton:

Enclosed are eight copies of the Beaver Creek Coal Company response to the following stipulations:

- (1) UMC 817.52 - (1,2) - JRF
- (2) UMC 817.113 - (1) - KMM
- (3) UMC 817.114 - (-1) - KMM
- (4) UMC 817.150 - .156 - (1) PGL -

In addition, UMC 817.48 (1) - DD has been met by the burial of the subject material beneath a minimum of 4 feet of non-toxic and nonacid-forming material.

Stipulations UMC 817.46 - (1,2) - JRF will be met as prescribed; however, due to the heavy storms early in the reclamation process and slow drying on site, the sediment pond reconstruction will not be completed until 11/14/86. Beaver Creek Coal Company therefore requests an extension of the 10/31/86 date to 11/14/86, due to the uncontrollable delay.

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

Respectfully,

Dan W. Gry,
Manager of Permitting/Compliance

DWG/rs

cc: Jay Marshall
File



DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

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

288 North 1460 West
P.O. Box 16890
Salt Lake City, Utah 84116-0890
(801) 538-6121

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 Herkiner 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

1989

SUBSIDENCE MONITORING REPORT

R.D.N. SURVEYING

613 KENDRICK PLACE -- BOULDER CITY, NV. 89005 -- (702)-293-4913

November 15, 1989

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

Dear Mr. Guy:

Enclosed are copies of field notes, coordinates, and elevations of the subsidence survey at the Gordon Creek No. 2, No. 3, No. 6, and No. 7 Mines.

As I mentioned in our telephone conversation the elevation of control point "H" was determined to be 4.11 feet lower than in previous years. An average of coordinates and elevation determined from each subsidence point observed from "H" was used to calculate values for point "H". These values are as follows:

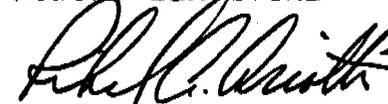
North	East	Elevation
492,568.234	2,120,190.766	8,845.010

I am also enclosing a list using your format for comparison of the elevations, latest change, and accumulated change.

If I can be of any further assistance, please do not hesitate to call.

Respectively yours,

R.D.N. SURVEYING



Richard A. Ariotti, R.L.S.

SUBSIDENCE MONITORING
FOR
GORDON CREEK #3 & #6 MINES

STATION	ORIG. ELEV.	SURVEY ELEV.				CHANGES	
	7/30/86	11/3/86	8/29/87	10/9/88	10/15/89	LATEST	ACC.
"D"	7577.760	7577.760	7577.760	7577.760	7577.760	-	-
"N"	7892.180	7892.180	7892.180	7892.180	7892.180	-	-
Sub-1	8269.400	8269.410	8269.412	8269.481	8269.423	-0.058	0.023
Sub-2	8107.430	8107.403	8107.412	8107.390	8107.334	-0.056	-0.096
Sub-3	8502.610	8502.569	8502.566	8502.614	8502.736	0.122	0.126
Sub-4	8308.580	8308.494	8308.534	8308.592	8308.575	-0.017	-0.005
Sub-5	8512.470	8512.390	8512.383	8512.548	8512.414	-0.134	-0.056
	8412.570	8412.530	8412.483	8412.714	8412.572	-0.142	0.002

1989 BEAVER CREEK NO. 3 & NO. 6 MINE SUBSIDENCE SURVEY

Comp. By.: R.A.A.
Date: 11/12/89

FROM	AZIMUTH	DISTANCE	NORTHING	EASTING	ELEVATION	TO
"N"	261 22 12	2,137.689	495,660.674	2,131,396.606	8,269.423	SUB-1
"N"	282 50 49	1,740.582	496,368.454	2,131,813.082	8,107.334	SUB-2
"N"	295 51 02	3,077.554	497,323.333	2,130,740.495	8,502.736	SUB-3
"N"	313 31 55	3,245.959	498,217.124	2,131,156.803	8,308.575	SUB-4
"N"	303 45 16	3,457.945	497,902.795	2,130,635.066	8,512.414	SUB-5
SUB-5	341 25 06	1,333.349	499,166.638	2,130,210.186	8,412.572	SUB-6

SUBSIDENCE INVENTORY

3 & 6 MINE

COAL CANYON

Subsidence Inventory
3 & 6 Mine - Coal Canyon

Scope:

Beaver Creek Coal Company's 3 & 6 Mine, located approximately 2 miles from the confluence of Coal Creek and the Gordon Creek (see Figure 1) was abandoned in the fall of 1983.

Since reclamation activities, the site has been monitored relative to vegetation success, surface and ground water quantity and quality and any evidence of subsidence. The total area comprises approximately 500 acres. Only 28 surface acres were disturbed in the course of mining and reclamation activities. Approximately 300 acres of the area was undermined and as such has the potential for subsidence. It was this area that was inventoried to determine if: (1) subsidence is in evidence, and, (2) if there has been adverse impacts as a result of that subsidence.

Methodology:

The actual inventory consisted of two parts: (1) an aerial inventory was conducted the first week in September 1989. The inventory was postponed until the majority of the leaf drop had occurred to facilitate direct ground observation. After flying

the area, it was felt that the results were inconclusive; some evidence of subsidence was observed, but could not be positively identified as subsidence.

Part (2) was ground inventory conducted on foot. On September 6, 1989, 2 individuals were taken in along the old power line maintenance road to the top of the central ridge between Coal Canyon and the Beaver Creek cut off road. From this point, the ridge was inventoried out the east and west branches of the ridge to their intersection with Gordon Creek road. Particular attention was paid to those areas surrounding the 6 known portals as well as the escarpments directly above the areas where maximum pillar removal had occurred.

The area was walked over utilizing a grid system of search at approximately 100 yard intervals. All evidence of subsidence such as sloughs, escarpment failure, slumps or tension fractures were to be located on a map and identified. After 6 man-hours of searching, the area was felt to be adequately inventoried. On September 7th, 1989, a follow-up survey was conducted on the escarpment area directly above the portal area. This inventory was conducted on foot and covered an area from the portal area to the ridge top.

Results:

No evidence of subsidence was located along the ridgeline. Even though the area has experienced a severe draught for the last two years, all springs and seeps were located and appeared to correspond to historical flow data. It was noted the area was heavily utilized by domestic and wildlife grazing and a well established trail led to each source of water.

Directly above the 3 Mine portal area, there is an area of approximately 30' X 30' that appears to have slumped in. While the slump is well vegetated primarily with oak brush, it does appear to be a direct result of subsidence. No structural or environmental damage was apparent as a result of this subsidence and none would be anticipated due to the remoteness of the site. There are no escarpments above the slump which could possibly be impacted.

1989

VEGETATION DATA

VEGETATION MONITORING

OF THE

GORDON CREEK

NO. 3 & NO. 6 MINE SITE: 1989

Prepared by

MT. NEBO SCIENTIFIC RESEARCH & CONSULTING
Post Office Box 337
Springville, Utah 84663
(801) 489-6937

for

BEAVER CREEK COAL COMPANY
Post Office Box 1378
Price, Utah 84501

Report: Patrick D. Collins, Ph.D.

Fieldwork: Patrick D. Collins
Dean Collins

Date: March 1990

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SCOPE

The following report has been prepared to describe the current status of revegetation attempts of the Gordon Creek No. 3 and No. 6 mines for Beaver Creek Coal Company, Price, Utah. This report is meant to be part of the current revegetation monitoring program. It is not meant to be used, however, as conclusive evidence for successful revegetation or to justify bond release. Therefore, the undisturbed reference area to be used for statistically comparing the revegetated site, was not sampled at this phase of the monitoring program. The study and methodologies used herein were performed in accordance with the guidelines supplied by the State of Utah, Division of Oil, Gas and Mining (DOGM).

Within the INTRODUCTION of the report, a General Site Description section is provided to give a brief descriptive overview of the area. A METHODS section is included in this report to provide the reviewers with all methodologies and standards used to obtain the data. The RESULTS section outlines the sampling results of the revegetated mine site.

INTRODUCTION

General Site Description

The Gordon Creek No. 3 and No. 6 mines are located in the Gordon Creek area of Carbon County, Utah. The elevation of the area lies between 7,550 ft and 7,850 ft above sea level. Vegetation types adjacent to the mine area are scrub oak-shrubland and sagebrush-grassland communities. The reclaimed areas of the mine site lie on a variety of slopes and exposures which are discussed further in the METHODS section of this report. The reclaimed areas consisted principally of access roads, portal areas, regraded slopes and a reconstructed creek channel.

METHODS

Quantitative and qualitative data were taken on the vegetation of the reclaimed mine site. Sampling was accomplished September 13 - 14, 1989. Because the reclaimed surface disturbance areas of the Gordon Creek No. 3 and No. 6 mines had a variety of physiognomic

differences (i.e. slopes and exposures), four areas were sampled. These areas were: 1) the portal area, 2) the east slope of the #6 portal area, 3) the flat area below this slope, and 4) the area adjacent to the creek reconstruction site.

As one would expect with the physiognomic diversity, there were some differences in cover and species composition from area to area on the mine site. Because the entire area was seeded with the same seed mix, and because the design of this monitoring year was intended to report the current general status of the revegetated mine site as a whole, all sample areas were combined into one data set. The data were recorded, however, by a method that would enable investigators to easily separate each area sampled. These areas could be separated in the future to provide comparisons of site specific data should it become warranted due to changes or obvious site-specific problems. Subsequent monitoring years should provide separate data for the sample areas if site-specific changes occur or differences between areas increase.

Cover and Composition

Random/regular placement of sampling plots were designed to provide unbiased accuracy of the data compiled. This was accomplished by establishing transect lines on the areas to be sampled. These transect lines were placed over the four areas of the study site in an

attempt to adequately represent the area as a whole. Regular points on the transect lines were then marked and random points for quadrat placement followed.

Cover estimates were made using ocular methods with meter square quadrats. Species composition and relative frequencies were also assessed from the quadrats. Additional information recorded on data sheets were: estimated precipitation, slope, exposure, grazing use, animal disturbance and other appropriate notes. Plant nomenclature follows Welch et al. (1987).

Woody Species Density

Due to the compositional nature of the reclaimed areas, densities of woody plant species were measured by placement of belt transects. Sixteen belt transects (four per sample area) were placed on the study area. The size of these transects were 6 ft wide by 50 ft long (300 sq ft).

Reference Area

As mentioned in the SCOPE section, this report is not meant to be used as conclusive evidence for successful revegetation or to justify bond release. Therefore, the undisturbed reference area to be used for

statistically comparing the revegetated site was not sampled at this phase of the monitoring program.

Sample Adequacy

Sampling adequacy for cover was achieved by using the maximum sample size required by DOGM for the combined data. All sample means, standard deviations, and sample sizes were included in this report to enable the reviewers to apply further statistical tests if desired.

RESULTS

The vegetative cover of the reclaimed roads and slopes was estimated as 37.50% (Table 1). Woody plant species made up 4.94%, grasses 73.37%, and forbs 21.70% of the living cover (Table 1). The dominate shrubs (by cover) of this area were: winterfat (Ceratoides lanata), four-winged saltbush (Atriplex canescens) and big sagebrush (Artemisia tridentata). The dominate grass species were: streambank/thickspike wheatgrass (Agropyron lanceolatus), bluebunch wheatgrass (Agropyron spicatus) and Gt. Basin wildrye (Elymus cinereus). Dominant forb species were: Russian thistle (Salsola iberica), yellow sweetclover (Melilotus officinalis), and autumn willowherb (Epilobium brachycarpum). Refer to Table 2 for a list of

all species encountered in the quadrats by cover. Total woody species density of the area was estimated at 354 plants per acre (Table 3).

TABLE 1: Total cover and composition summary for the reclaimed areas of the Gordon Creek No. 3 and No. 6 mine site. The table shows the mean percent cover and composition with standard deviations and sample sizes.

TOTAL COVER	% MEAN COVER	STANDARD DEVIATION	SAMPLE SIZES
Total Living Cover*	37.50	9.68	40 <i>N_{min} = 11</i>
Litter	12.18	6.71	40
Bareground	22.50	11.12	40
Rock	27.83	13.67	40
COMPOSITION			
Shrubs	4.94	13.03	40
Forbs	21.70	24.24	40
Grasses	73.37	24.75	40

* Sample size insures 80% accuracy within 10% of the true mean or maximum samples suggested by the State of Utah, Division of Oil, Gas and Mining.

TABLE 2: Species cover and frequency summary for the reclaimed areas of the Gordon Creek No. 3 and No. 6 mine site. The table shows the mean percent cover, standard deviation, sample size and relative frequency by species.

SPECIES	% MEAN COVER	STANDARD DEVIATION	SAMPLE SIZE	RELATIVE FREQUENCY
SHRUBS				
<i>Artemisia tridentata</i>	0.50	2.45	40.0	5.00
<i>Atriplex canescens</i>	0.50	3.12	40.0	2.50
<i>Chrysothamnus nauseosus</i>	0.45	1.77	40.0	7.50
<i>Ceratoides lanata</i>	0.50	2.45	40.0	5.00
<i>Quercus gambellii</i>	0.08	0.47	40.0	2.50
FORBS				
<i>Aster foliceus</i>	0.25	1.09	40.0	5.00
<i>Cirsium sp.</i>	0.13	0.78	40.0	2.50
<i>Cynoglossum officinale</i>	0.13	0.78	40.0	2.50
<i>Epilobium brachycarpum</i>	1.18	4.13	40.0	12.50
<i>Eriogonum sp.</i>	0.18	0.67	40.0	7.50
<i>Machaeranthera canescens</i>	0.50	1.87	40.0	7.50
<i>Medicago sativa</i>	0.43	1.34	40.0	10.00
<i>Melilotus officinalis</i>	1.53	2.13	40.0	37.50
<i>Salsola iberica</i>	2.73	6.97	40.0	17.50
<i>Suaeda calceoliformis</i>	0.88	2.47	40.0	12.50
GRASSES				
<i>Elymus cinereus</i>	5.13	7.49	40.0	45.00
<i>Elymus lanceolatus</i>	14.45	11.06	40.0	82.50
<i>Elymus spicatus</i>	7.75	8.42	40.0	65.00
<i>Hordeum jubatum</i>	0.25	1.09	40.0	5.00

WOODY PLANT SURVIVAL STUDY
OF THE GORDON CREEK
NO. 3 & NO. 6 MINE SITE: 1989

Prepared by

MT. NEBO SCIENTIFIC RESEARCH & CONSULTING
Post Office Box 337
Springville, Utah 84663
(801) 489-6937

for

BEAVER CREEK COAL COMPANY
Post Office Box 1378
Price, Utah 84501

Report: Patrick D. Collins, Ph.D.

Fieldwork: Patrick D. Collins
James K. Harper

Date: March 1990

WOODY PLANT SURVIVAL STUDY
OF THE GORDON CREEK
NO. 3 & NO. 6 MINE SITE: 1989

INTRODUCTION

The Gordon Creek No. 3 and No. 6 mines are located in the Gordon Creek area of Carbon County, Utah. The elevation of the area lies between 7,550 ft and 7,850 ft above sea level. Vegetation types adjacent to the mine area are scrub oak-shrubland and sagebrush-grassland communities. The reclaimed areas of the mine site lie on a variety of slopes and exposures.

Containerized stock and cuttings of woody plant species were planted on the Gordon Creek No. 3 and No. 6 reclaimed mine site by Beaver Creek Coal Company. The species and numbers of plants to be planted were recommended by State of Utah, Division of Wildlife Resources to improve establishment of riparian and wildlife habitat. The woody plant species planted were: scrub oak (*Quercus gambellii*), chokecherry (*Prunus virginiana*), aspen (*Populus tremuloides*), willow (*Salix* sp.) and big toothed maple (*Acer grandidentatum*). The planting was accomplished in the Fall of 1986.

The purpose of this report is to comply with the vegetation monitoring schedule and to report on survival rates of the aforementioned species.

METHODS

The field work was conducted September 29, 1989. This date enabled the field workers to readily distinguish the target species due to fall color changes. The planting areas were located with the assistance of the contractor that originally planted the woody plants and the use of mine site maps.

When the areas were located, all of the target species were counted and recorded in an attempt to build a complete data set (rather than a subset) to calculate percent survival of the plants.

RESULTS

A summary of the results of the study is included in this report. The summary table shows the number planted, the number that had survived to date, and the percent survival of the woody species. The percent survival of the species were: 1) scrub oak (43.7%), 2) big toothed maple (28.57%), 3) chokecherry (78.00%), 4) aspen (60.00%) and willow (13.59%).

It should be noted, however, that even though the willow percent survival seemed relatively low (13.59%), establishment along the reconstructed creek appeared very good. In other words, the plants that did survival had vigorous growth, were well established, and appeared to have good density and cover along the creek channel.

RESULTS FROM THE
WOODY PLANT SURVIVAL STUDY
OF THE
GORDON CREEK NO. 3 & NO. 6 MINE SITE: 1989

AREA	SPECIES PLANTED	NO. PLANTED	SURVIVAL No. (Percent)
1	Shrub oak	270*	
2	Shrub oak	270*	57 (21.11)
3a	Shrub oak	215*	64 (23.70)
3b	Shrub oak	55*	157 (73.02)
4	Shrub oak	270*	48 (87.27)
	TOTAL	<u>1080**</u>	<u>472 (43.70)</u>
5	Big toothed maple	35	10 (28.57)
	TOTAL	<u>35**</u>	<u>10 (28.57)</u>
6	Chokecherry	50	39 (78.00)
	TOTAL	<u>50**</u>	<u>39 (78.00)</u>
7	Aspen	50	30 (60.00)
	TOTAL	<u>50**</u>	<u>30 (60.00)</u>
8	Willow	630*	70 (11.11)
9	Willow	304*	39 (12.83)
10	Willow	1398*	208 (14.88)
	TOTAL	<u>2332**</u>	<u>317 (13.59)</u>

* The numbers planted in each of these areas were an approximation based on the actual total numbers planted for that species.

** Actual total numbers planted for each species.

1989

MODIFICATIONS / AMENDMENTS

**RAPTOR SURVEY
AND
MONITORING REPORT**



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 Third Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

September 28, 1988

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

Dear Mr. Guy:

Re: Final Approval, Request to Suspend Annual Raptor
Surveys, Beaver Creek Coal Company, Gordon Creek No. 3
and 6 Mine, ACT/007/017, Folder No. 3, Carbon County,
Utah

The Division hereby approves the above-noted amendment received August 31, 1988. The plans were reviewed by Brent Stettler, Reclamation Biologist, of the Division's technical staff.

If you have any questions, please call Brent Stettler or me. Thank you for your cooperation in this matter.

Sincerely,

John J. Whitehead
Permit Supervisor/
Reclamation Hydrologist

djh
Attachment(s)
cc: R. Hagen
B. Malencik
B. Stettler
WP+15/22

BEAVER CREEK Coal Company

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



August 25, 1988

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

Attention: Mr. John Whitehead

RE: Request to Suspend Annual
Raptor Surveys
Gordon Creek No.3 and 6 Mine
ACT/007/017; #6
Carbon County, Utah

Dear Mr. Braxton:

Beaver Creek Coal Company is requesting the Division's approval to suspend annual raptor surveys for the above referred permit. Revised pages for the permit are enclosed as requested.

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

Respectfully,

Dan W. Guy
Manager Permitting/Compliance

cc Johnny Coffey
File

10.6 Fish and Wildlife Monitoring (Continued)

sultants to evaluate the ongoing success of operational mitigation measures, ensure that threatened or endangered species and sensitive or critical use areas remain undisturbed by future activities, deal with any unforeseen difficulties which might arise and participate in reclamation efforts upon completion of the project.

Two aspects of the monitoring program have already been initiated by Beaver Creek Coal Company: (a) monthly inspections of specific stations along Gordon Creek to monitor sediment load, (b) routine reporting by coal haulage personnel of any roadkills along the access corridor.

10.7 Bibliography

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Armstrong, D. M. 1972. Distribution of mammals in Colorado. Mus. Nat. Hist., Univ. of Kansas, Monogr. No. 3. Lawrence, Kansas.

Behle, W. H. and M. L. Perry. 1975. Utah birds: guide, checklist and occurrence charts. Utah Mus. Nat. Hist., Univ. of Utah, Salt Lake City.

Behler, J. L. and F. W. King. 1979. The Audubon Society field guide to North American reptiles and amphibians. Alfred A. Knopf, Inc., New York.