

AMAX COAL COMPANY  
CASTLE GATE MINE

ANNUAL ENVIRONMENTAL DATA REPORT 1994

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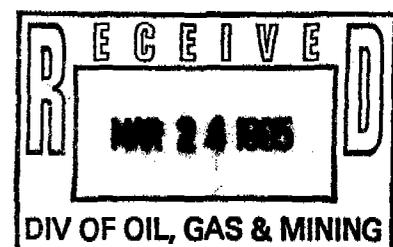
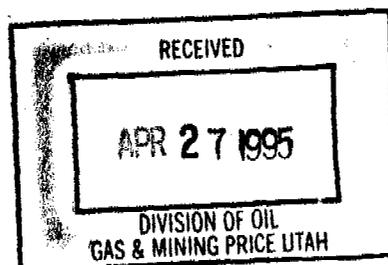
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Chapter 2, General Contents  
 Castle Gate Mine

January 1995

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security Number</u>	<u>Date Assumed Office</u>
President	W. Mark Hart	[REDACTED]	January 3, 1995
Senior Vice President	Gerald J. Malys	[REDACTED]	December 20, 1993
Senior Vice President, General Counsel and Secretary	Philip C. Wolf	[REDACTED]	December 20, 1993
Senior Vice President, Sales and Marketing	Nicholas P. Moros	[REDACTED]	December 20, 1993
Vice President, Sales and Marketing	Donald J. Drabant	[REDACTED]	December 20, 1993
Vice President, Labor, Safety and Government Relations	Chris L. Crowl	[REDACTED]	December 20, 1993
Vice President	G.E. Vajda	[REDACTED]	January 3, 1995
Vice President and General Manager	E. Wayne Parke	[REDACTED]	December 20, 1993
Vice President and Treasurer	Francis J. Kane	[REDACTED]	January 11, 1994
Vice President and Controller	Frank J. Wood	[REDACTED]	December 20, 1993
Assistant Treasurer	Farokh S. Hakimi	[REDACTED]	December 20, 1993
Director of Tax	J. David Flemming	[REDACTED]	December 20, 1993
Assistant Secretary	Kathleen J. Gormley	[REDACTED]	December 20, 1993
Assistant Secretary	Greg A. Walker	[REDACTED]	December 20, 1993
Assistant Secretary	Morris W. Kegley	[REDACTED]	June 27, 1991
Assistant Secretary	Dale E. Huffman	[REDACTED]	July 15, 1994

Resignations:

			<u>Date Resigned</u>
President	A. Frank Dunham		December 20, 1993
Vice President	Frederick L. Alvarez		December 20, 1993
Vice President	J. Mark Cook		December 20, 1993
Vice President and Secretary	Wayne E. Gresham		December 20, 1993
Vice President	Richard B. Meschke		December 20, 1993
Vice President	Robert S. Tevault		December 20, 1993
Assistant Secretary	Phyllis A. Elkins		December 20, 1993
Assistant Secretary	Robert P. Kobza		December 20, 1993
Director	Helen M. Feeny		November 15, 1993
President	Donald E. Hudson		January 3, 1995
Assistant Secretary	Michael R. Peelish		January 3, 1995
Director	Donald P. Brown		December 30, 1994

**DIRECTORS:**

Philip C. Wolf	[REDACTED]	November 15, 1993
Gerald J. Malys	[REDACTED]	November 15, 1993
Gerald R. Spindler	[REDACTED]	January 3, 1995

The officers and directors of Cyprus Amax Coal Company are:

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security Number</u>	<u>Date Assumed Office</u>
President	Gerald R. Spindler	[REDACTED]	January 3, 1995
Senior Vice President	Gerald J. Malys	[REDACTED]	December 20, 1993
Senior Vice President, General Counsel and Secretary	Philip C. Wolf	[REDACTED]	December 20, 1993
Senior Vice President, Development	Donald E. Hudson	[REDACTED]	January 3, 1995
Senior Vice President, Sales and Marketing	Nicholas P. Moros	[REDACTED]	December 20, 1993
Senior Vice President, Eastern Operations	W. Mark Hart	[REDACTED]	January 3, 1995
Senior Vice President, Western Operations	Randall J. Scott	[REDACTED]	January 3, 1995
Vice President, Labor, Safety and Government Relations	Chris L. Crowl	[REDACTED]	December 20, 1993
Vice President and Treasurer	Francis J. Kane	[REDACTED]	January 11, 1994
Vice President and Controller	Frank J. Wood	[REDACTED]	December 20, 1993
Assistant Treasurer	Farokh S. Hakimi	[REDACTED]	December 20, 1993
Director of Tax	J. David Flemming	[REDACTED]	December 20, 1993
Assistant Secretary	Kathleen J. Gormley	[REDACTED]	December 20, 1993
Assistant Secretary	Greg A. Walker	[REDACTED]	December 20, 1993
Assistant Secretary	Morris W. Kegley	[REDACTED]	December 20, 1993
Assistant Secretary	Dale E. Huffman	[REDACTED]	February 1, 1994

**Resignations:**

			<u>Date Resigned</u>
Senior Vice President, General Counsel, and Secretary	Kevin Loughrey	[REDACTED]	November 13, 1993
Senior Vice President, Sales and Marketing	George E. Vajda	[REDACTED]	December 20, 1993
Vice President, Materials, Maintenance & Technical Resources	W. Mark Hart	[REDACTED]	December 20, 1993
Vice President, Strategic Planning, and Controller	Joseph Caffarelli, Jr.	[REDACTED]	December 20, 1993
Vice President, Business Development	John E. Baum	[REDACTED]	December 20, 1993
Vice President, Associate General Coun., Assistant Secretary and Director	Deborah J. Friedman	[REDACTED]	December 31, 1993
Vice President and Treasurer	Dennis C. Haugh	[REDACTED]	December 31, 1993
President and Director	Donald P. Brown	[REDACTED]	December 30, 1994
Senior Vice President, Eastern Oper.	Donald E. Hudson	[REDACTED]	January 3, 1995
Senior Vice President, Western Oper.	J. Mark Cook	[REDACTED]	January 3, 1995
Assistant Secretary	Michael R. Peelish	[REDACTED]	January 3, 1995

**DIRECTORS:**

Philip C. Wolf	[REDACTED]	December 31, 1993
Gerald J. Malys	[REDACTED]	August 1, 1989
Garold R. Spindler	[REDACTED]	January 3, 1995

APPENDIX 2-3

AVS AND OWNERSHIP CONTROL

**CYPRUS AMAX MINERALS COMPANY**  
 (formerly Cyprus Minerals Company; name changed to Cyprus Amax Minerals Company  
 pursuant to the merger with Amax Inc. on November 15, 1993)

**Principal Operating Office:** 9100 East Mineral Circle  
 Englewood, Colorado 80112-3299

**Telephone:** 303/643-5000

**Incorporation:**

**State** Delaware

**Date** September 2, 1969

**Existence** Perpetual

**Qualified to Do Business In:** Arizona, Colorado, Delaware

**IRS Identification Number:** 36-2684040

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Date Assumed Office</u>
President and Chief Executive Officer	M. H. Ward	May 14, 1992
Senior Vice President and Chief Financial Officer	G. J. Malys	August 1, 1989
Senior Vice President, Coal	G. R. Spindler	January 3, 1995
Senior Vice President, Copper	J. G. Clevenger	January 27, 1993
Senior Vice President, General Counsel and Secretary	P. C. Wolf	March 24, 1991/November 12, 1993/ November 12, 1993
Senior Vice President, Exploration	D. H. Watkins	February 1, 1994
Vice President, Investor Relations, and Treasurer	F. J. Kane	January 11, 1994
Vice President, Human Resources	G. H. Peppard	October 4, 1987
Vice President and Controller	J. Taraba	October 31, 1988
Vice President, Engineering and Development	R. J. Hickson	November 20, 1994
Assistant Treasurer	F. S. Hakimi	July 31, 1987
Director of Tax	J. D. Flemming	May 7, 1992
Assistant Secretary	K. J. Gormley	May 4, 1994
<b>DIRECTORS:</b>	M. H. Ward (Co-Chairman)	May 14, 1992
	A. Born (Co-Chairman)	November 15, 1993
	L. G. Alvarado	December 14, 1989
	G. S. Ansell	December 3, 1987
	W. C. Bousquette	December 5, 1991
	T. V. Falkie	June 29, 1988
	A. M. Gray	November 15, 1993
	J. C. Huntington, Jr.	November 15, 1993
	M. A. Morphy	July 1, 1985
	R. A. Schnabel	February 11, 1993
	T. M. Solso	November 15, 1993
	J. H. Stookey	November 15, 1993
	J. A. Todd, Jr.	October 22, 1992
	B. B. Turner	October 22, 1992

**CYPRUS AMAX MINERALS COMPANY**  
 (formerly Cyprus Minerals Company; name changed to Cyprus Amax Minerals Company  
 pursuant to the merger with Amax Inc. on November 15, 1993)

**Resignations:**

<u>Title</u>	<u>Name</u>	<u>Date Resigned</u>
Senior Vice President, General Counsel, and Secretary	K. Loughrey	November 12, 1993
Assistant Secretary	D. J. Friedman	December 31, 1993
Vice President and Treasurer	D. C. Haugh	January 11, 1994
Vice President, Public and Investor Relations	R. H. Hagman	January 11, 1994
Vice President, Exploration	F. B. Park	February 1, 1994
Director	J. J. Kerley	April 29, 1993
Director	V. F. Taylor, Jr.	April 29, 1993
Director	P. C. Walsh	April 29, 1993
Director	C. A. Campbell, Jr.	May 4, 1994
Senior Vice President, Coal	D. P. Brown	December 30, 1994

AMAX ENERGY INC.

Principal Operating Office:

9100 East Mineral Circle  
Englewood, Colorado 80112-3299

Telephone:

303/643-5000

Incorporation:

State

Delaware, The Corporation Trust Company, 1209 Orange Street, Wilmington, DE 19801

Date

July 26, 1991

Existence

Perpetual

Qualified to Do Business In:

Delaware, Connecticut, Indiana, Texas

Ownership - Percentage:

Cyprus Amax Minerals Company - 100%; November 15, 1993

Employer I.D. No.:

06-1324916

OFFICERS:

<u>Title</u>	<u>Name</u>	<u>Social Security #</u>	<u>Date Assumed Office</u>
President	Gerald J. Malys	[REDACTED]	April 11, 1994
Senior Vice President, General Counsel and Secretary	Philip C. Wolf	[REDACTED]	November 15, 1993
Vice President and Treasurer	Francis J. Kane	[REDACTED]	January 11, 1994
Vice President and Controller	John Taraba	[REDACTED]	November 15, 1993
Director of Tax	J. David Flemming	[REDACTED]	November 15, 1993
Assistant Secretary	Kathleen J. Gormley	[REDACTED]	November 15, 1993
Assistant Secretary	Dale E. Huffman	[REDACTED]	April 11, 1994
<b>DIRECTORS:</b>	Gerald J. Malys	[REDACTED]	November 15, 1993
	Philip C. Wolf	[REDACTED]	November 15, 1993

AMAX ENERGY INC.

Resignations:

<u>Title</u>	<u>Name</u>	<u>Social Security No.</u>	<u>Date Resigned</u>
Chairman of the Board	Allen Born		November 15, 1993
Senior Vice President	Gary D. McDowell		November 15, 1993
Vice President, Secretary and Director	Helen M. Feeney		November 15, 1993
Vice President	Gary Foster		November 15, 1993
Vice President and Treasurer	Lee A. Nickerson		November 15, 1993
Controller	Richard B. Hallett		November 15, 1993
Assistant Secretary	Michael W. Borkowski		November 15, 1993
Assistant Secretary	Raymond J. Cooke		November 15, 1993
Assistant Secretary	J. Alan Ross		November 15, 1993
Assistant Treasurer	Harold E. Davis		November 15, 1993
Assistant Treasurer	Lawrence B. Frost		November 15, 1993
Assistant Treasurer	Thomas P. Wozniak		November 15, 1993
President	Thomas A. McKeever	██████████	April 11, 1994
Senior Vice President	Gerald J. Malys	██████████	April 11, 1994
Vice President	William G. Hargett	██████████	April 11, 1994
Vice President and Assistant Secretary	Wayne E. Gresham	██████████	April 11, 1994

**CYPRUS AMAX COAL COMPANY**  
 (Formerly Cyprus Coal Company, name changed to Cyprus Amax Coal Company 12/16/93)

**Principal Operating Office:** 9100 East Mineral Circle  
 Englewood, Colorado 80112-3299

**Telephone:** 303/643-5000

**Incorporation:**  
 State Delaware, The Corporation Trust Company, 1209 Orange Street, Wilmington, DE 19801  
 Date June 18, 1980  
 Existence Perpetual

**Qualified to Do Business In:** Delaware, Colorado

**Ownership - Percentage:** Amax Energy Inc. - 100%; April 20, 1994

**IRS Identification Number:** 36-3081314

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security #</u>	<u>Date Assumed Office</u>
President	Garold R. Spindler	[REDACTED]	January 3, 1995
Senior Vice President	Gerald J. Malys	[REDACTED]	August 1, 1989
Senior Vice President, General Counsel, and Secretary	Philip C. Wolf	[REDACTED]	November 13, 1993
Senior Vice President, Development	Donald E. Hudson	[REDACTED]	January 3, 1995
Senior Vice President, Sales and Marketing	Nicholas P. Moros	[REDACTED]	December 20, 1993
Senior Vice President, Eastern Operations	W. Mark Hart	[REDACTED]	January 3, 1995
Senior Vice President, Western Operations	Randall J. Scott	[REDACTED]	January 3, 1995
Vice President, Labor, Safety and Government Relations	Chris L. Crowl	[REDACTED]	December 20, 1993
Vice President and Treasurer	Francis J. Kane	[REDACTED]	January 11, 1994
Vice President and Controller	Frank J. Wood	[REDACTED]	December 20, 1993
Assistant Treasurer	Farokh S. Hakimi	[REDACTED]	July 31, 1987
Director of Tax	J. David Flemming	[REDACTED]	April 6, 1992
Assistant Secretary	Kathleen J. Gormley	[REDACTED]	September 22, 1986
Assistant Secretary	Greg A. Walker	[REDACTED]	December 20, 1993
Assistant Secretary	Morris W. Kegley	[REDACTED]	December 20, 1993
Assistant Secretary	Dale E. Huffman	[REDACTED]	February 1, 1994
<b>DIRECTORS:</b>	Garold R. Spindler	[REDACTED]	January 3, 1995
	Gerald J. Malys	[REDACTED]	August 1, 1989
	Philip C. Wolf	[REDACTED]	December 31, 1993

**CYPRUS AMAX COAL COMPANY**  
 (Formerly Cyprus Coal Company, name changed to Cyprus Amax Coal Company 12/16/93)

Resignations:

<u>Title</u>	<u>Name</u>	<u>Social Security No.</u>	<u>Date Resigned</u>
Senior Vice President, General Counsel, and Secretary	Kevin Loughrey	██████████	November 13, 1993
Senior Vice President, Sales and Marketing	George E. Vajda	██████████	December 20, 1993
Vice President, Materials, Maintenance & Technical Resources	W. Mark Hart	██████████	December 20, 1993
Vice President, Strategic Planning, and Controller	Joseph Caffarelli, Jr.	██████████	December 20, 1993
Vice President, Business Development	John E. Baum	██████████	December 20, 1993
Vice President, Associate General Counsel, Assistant Secretary and Director	Deborah J. Friedman	██████████	December 31, 1993
Vice President and Treasurer	Dennis C. Haugh	██████████	December 31, 1993
President and Director	Donald P. Brown	██████████	December 30, 1994
Senior Vice President, Eastern Operations	Donald E. Hudson	██████████	January 3, 1995
Senior Vice President, Western Operations	J. Mark Cook	██████████	January 3, 1995
Assistant Secretary	Michael R. Peelish	██████████	January 3, 1995

**AMAX COAL COMPANY**

(Formerly Ayrshire Oil Corporation, name changed to Ayrshire Coal Company, Inc. 10/21/69; renamed Amax Coal Company, Inc. 1/1/72; renamed Amax Coal Company 2/17/84; renamed Amax Coal Company, Inc. 7/17/84; renamed Amax Coal Company 6/15/87)

**Mailing Address:** One Riverfront, 20 N.W. 1st Street  
Evansville, Indiana 47708

**Telephone:** 812/421-3900

**Incorporation:**  
State Delaware, The Corporation Trust Company, 1209 Orange Street, Wilmington, DE 19801  
Date November 26, 1948  
Existence Perpetual

**Qualified to Do Business In:** Delaware, Colorado, Illinois, Indiana, Kentucky, Minnesota, Utah, Wyoming

**Ownership - Percentage:** Cyprus Amax Coal Company - 100%; April 25, 1994

**IRS Identification Number:** 35-6030195

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security #</u>	<u>Date Assumed Office</u>
President	W. Mark Hart	[REDACTED]	January 3, 1995
Senior Vice President	Gerald J. Malys	[REDACTED]	December 20, 1993
Senior Vice President, General Counsel and Secretary	Philip C. Wolf	[REDACTED]	December 20, 1993
Senior Vice President, Sales and Marketing	Nicholas P. Moros	[REDACTED]	December 20, 1993
Vice President, Sales and Marketing	Donald J. Drabant	[REDACTED]	December 20, 1993
Vice President, Labor, Safety and Government Relations	Chris L. Crowl	[REDACTED]	December 20, 1993
Vice President	G. E. Vajda	[REDACTED]	January 3, 1995
Vice President and General Manager	E. Wayne Parke	[REDACTED]	December 20, 1993
Vice President and Treasurer	Francis J. Kane	[REDACTED]	January 11, 1994
Vice President and Controller	Frank J. Wood	[REDACTED]	December 20, 1993
Assistant Treasurer	Farokh S. Hakimi	[REDACTED]	December 20, 1993
Director of Tax	J. David Flemming	[REDACTED]	December 20, 1993
Assistant Secretary	Kathleen J. Gormley	[REDACTED]	December 20, 1993
Assistant Secretary	Greg A. Walker	[REDACTED]	December 20, 1993
Assistant Secretary	Morris W. Kegley	[REDACTED]	June 27, 1991
Assistant Secretary	Dale E. Huffman	[REDACTED]	July 15, 1994
<b>DIRECTORS:</b>	Garold R. Spindler	[REDACTED]	January 3, 1995
	Gerald J. Malys	[REDACTED]	November 15, 1993
	Philip C. Wolf	[REDACTED]	November 15, 1993

**AMAX COAL COMPANY**

(Formerly Ayrshire Oil Corporation, name changed to Ayrshire Coal Company, Inc. 10/21/69; renamed Amax Coal Company, Inc. 1/1/72; renamed Amax Coal Company 2/17/84; renamed Amax Coal Company, Inc. 7/17/84; renamed Amax Coal Company 6/15/87)

Resignations:

<u>Title</u>	<u>Name</u>	<u>Date Resigned</u>
President	A. Frank Dunham	December 20, 1993
Vice President	Frederick L Alvarez	December 20, 1993
Vice President	J. Mark Cook	December 20, 1993
Vice President and Secretary	Wayne E. Gresham	December 20, 1993
Vice President	Richard B. Meschke	December 20, 1993
Vice President	Robert S. Tevault	December 20, 1993
Assistant Secretary	Phyllis A. Elkins	December 20, 1993
Assistant Secretary	Robert P. Kobza	December 20, 1993
Director	Helen M. Feeney	November 15, 1993
President	Donald E. Hudson	January 3, 1995
Assistant Secretary	Michael R. Peelish	January 3, 1995
Director	Donald P. Brown	December 30, 1994

**CYPRUS WESTERN COAL COMPANY**  
 (Formerly Cyprus Industrial Minerals Company; name changed effective August 26, 1985.)

**Principal Operating Office:** 9100 East Mineral Circle  
 Englewood, Colorado 80112-3299

**Telephone:** 303/643-5000

**Incorporation:**  
 State Delaware, The Corporation Trust Company, 1209 Orange Street, Wilmington, DE 19801  
 Date February 12, 1982  
 Existence Perpetual

**Qualified to Do Business In:** Colorado, Delaware, Utah

**Ownership - Percentage:** Cyprus Amax Coal Company - 100%; August 26, 1985

**IRS Identification Number:** 36-3200083

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security #</u>	<u>Date Assumed Office</u>
President	Randall J. Scott	[REDACTED]	January 3, 1995
Senior Vice President	Gerald J. Malys	[REDACTED]	August 1, 1989
Senior Vice President, General Counsel, and Secretary	Philip C. Wolf	[REDACTED]	November 13, 1993
Senior Vice President, Sales and Marketing	Nicholas P. Moros	[REDACTED]	December 20, 1993
Vice President and Treasurer	Francis J. Kane	[REDACTED]	January 11, 1994
Vice President and Contoller	Frank J. Wood	[REDACTED]	December 20, 1993
Vice President and General Manager	William Ivy	[REDACTED]	January 3, 1995
Vice President and General Manager	Keith H. Sieber	[REDACTED]	April 6, 1992/December 20, 1993
Vice President, Labor, Safety and Government Relations	Chris L. Crowl	[REDACTED]	December 20, 1993
Vice President, Sales and Marketing	George E. Vajda	[REDACTED]	December 20, 1993
Vice President and Assistant Secretary	Greg A. Walker	[REDACTED]	December 20, 1993
Vice President	George L. Raymond	[REDACTED]	December 20, 1993
Assistant Treasurer	Farokh S. Hakimi	[REDACTED]	July 31, 1987
Director of Tax	J. David Flemming	[REDACTED]	April 6, 1992
Assistant Secretary	Kathleen J. Gormley	[REDACTED]	September 22, 1986
Assistant Secretary	Morris W. Kegley	[REDACTED]	December 20, 1993
Assistant Secretary	Dale E. Huffman	[REDACTED]	February 1, 1994
<b>DIRECTORS:</b>	Garold R. Spindler	[REDACTED]	January 3, 1995
	Gerald J. Malys	[REDACTED]	August 1, 1989
	Philip C. Wolf	[REDACTED]	December 31, 1993

**CYPRUS WESTERN COAL COMPANY**  
 (Formerly Cyprus Industrial Minerals Company; name changed effective August 26, 1985.)

**Resignations:**

<u>Title</u>	<u>Name</u>	<u>Social Security No.</u>	<u>Date Resigned</u>
President	Donald P. Brown	██████████	December 20, 1993
Senior Vice President, General Counsel, and Secretary	Kevin Loughrey	██████████	November 13, 1993
Senior Vice President, Operation	Donald E. Hudson	██████████	December 6, 1993
Senior Vice President, Sales and Marketing	George E. Vajda	██████████	December 20, 1993
Vice President, Business Development, and Controller	Joseph Caffarelli, Jr.	██████████	December 20, 1993
Vice President, Associate General Counsel, Assistant Secretary and Director	Deborah J. Friedman	██████████	December 31, 1993
Vice President and Treasurer	Dennis C. Haugh	██████████	December 31, 1993
President	J. Mark Cook	██████████	January 3, 1995
Vice President and General Manager	W. Mark Hart	██████████	January 3, 1995
Assistant Secretary	Michael R. Peelish	██████████	January 3, 1995
Director	Donald P. Brown	██████████	December 30, 1994

**CYPRUS PLATEAU MINING CORPORATION**  
 (formerly Plateau Mining Company; name changed effective June 8, 1987)

**Mailing Address:** P.O. Box Drawer PMC  
 Price, Utah 84501

**Telephone:** 805/637-2875

**Incorporation:**  
     **State** Delaware, The Corporation Trust Company, 1209 Orange Street, Wilmington, DE 19801  
     **Date** August 26, 1982  
     **Existence** Perpetual

**Qualified to Do Business In:** Delaware, Colorado, Utah

**Ownership - Percentage:** Cyprus Western Coal Company - 100%; June 5, 1990

**IRS Identification Number:** 95-3761213

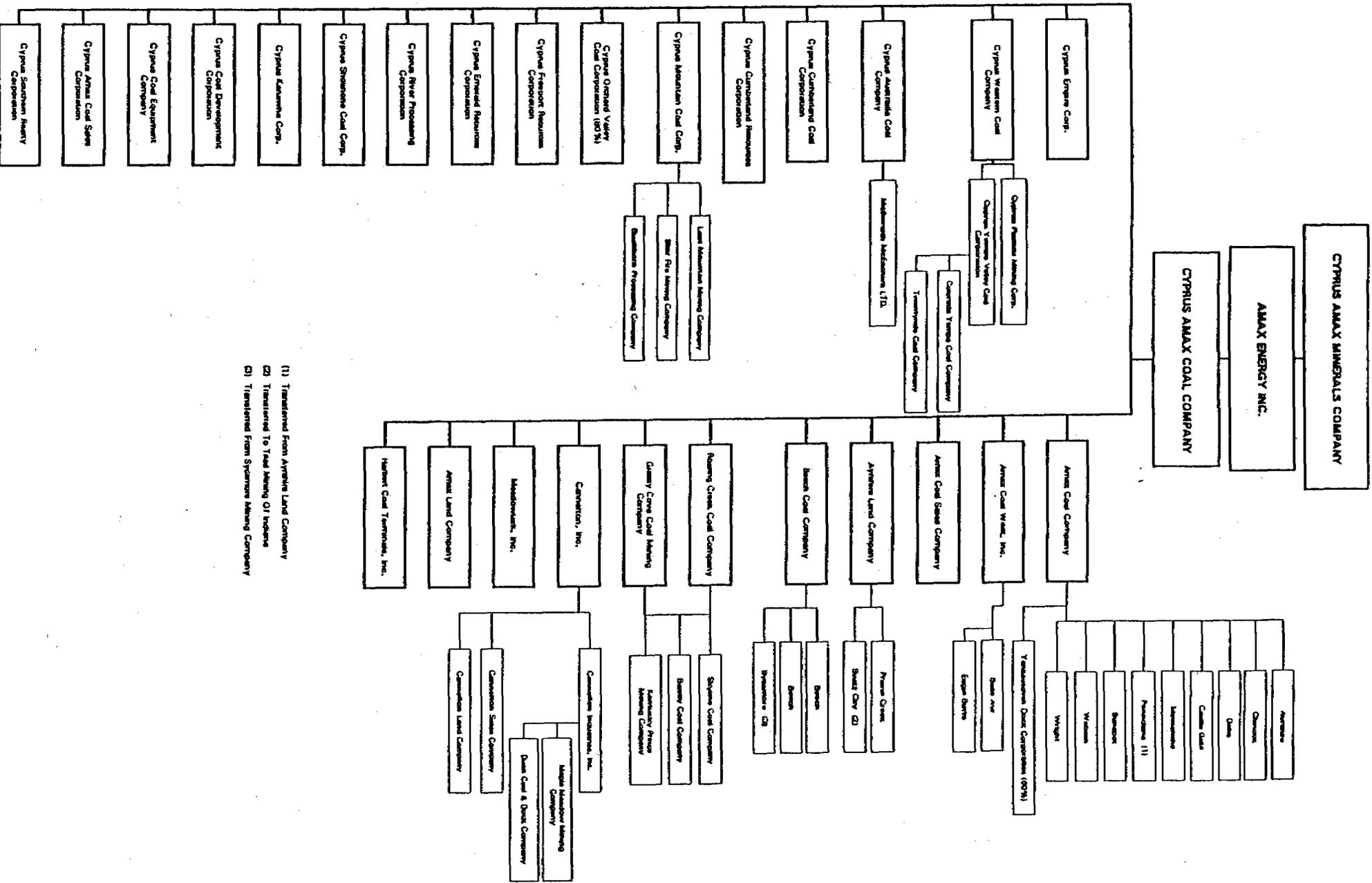
**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security #</u>	<u>Date Assumed Office</u>
President	Randall J. Scott	██████████	January 3, 1995
Senior Vice President	Gerald J. Malys	██████████	August 1, 1989
Senior Vice President, General Counsel, and Secretary	Philip C. Wolf	██████████	November 13, 1993
Senior Vice President, Sales and Marketing	Nicholas P. Moros	██████████	December 20, 1993
Vice President and General Manager	Keith H. Sieber	██████████	April 6, 1992
Vice President and Treasurer	Francis J. Kane	██████████	January 11, 1994
Vice President and Contoller	Frank J. Wood	██████████	December 20, 1993
Vice President, Sales and Marketing	George E. Vajda	██████████	December 20, 1993
Vice President, Labor, Safety and and Government Relations	Chris L. Crowl	██████████	December 20, 1993
Assistant Treasurer	Farokh S. Hakimi	██████████	July 31, 1987
Director of Tax	J. David Flemming	██████████	April 6, 1992
Assistant Secretary	Kathleen J. Gormley	██████████	September 22, 1986
Assistant Secretary	Greg A. Walker	██████████	December 20, 1993
Assistant Secretary	Morris W. Kegley	██████████	December 20, 1993
Assistant Secretary	Dale E. Huffman	██████████	February 1, 1994
<b>DIRECTORS:</b>	Garold R. Spindler	██████████	January 3, 1995
	Gerald J. Malys	██████████	August 1, 1989
	Philip C. Wolf	██████████	December 31, 1993

**CYPRUS PLATEAU MINING CORPORATION**  
 (formerly Plateau Mining Company; name changed effective June 8, 1987)

Resignations:

<u>Title</u>	<u>Name</u>	<u>Social Security No.</u>	<u>Date Resigned</u>
President	Donald P. Brown	██████████	December 20, 1993
Senior Vice President, General Counsel, and Secretary	Kevin Loughrey	██████████	November 13, 1993
Senior Vice President, Operations	Donald E. Hudson	██████████	December 20, 1993
Senior Vice President, Sales and Marketing	George E. Vajda	██████████	December 20, 1993
Vice President, Business Development, and Controller	Joseph Caffarelli, Jr.	██████████	December 20, 1993
Vice President, Materials, Maintenance & Technical Resources	W. Mark Hart	██████████	December 20, 1993
Vice President, Associate General Counsel, Assistant Secretary and Director	Deborah J. Friedman	██████████	December 31, 1993
Vice President and Treasurer	Dennis C. Haugh	██████████	December 31, 1993
President	J. Mark Cook	██████████	January 3, 1995
Assistant Secretary	Michael R. Peelish	██████████	January 3, 1995
Director	Donald P. Brown	██████████	December 30, 1994



(1) Transferred from Ayrshire Land Company  
 (2) Transferred To Tread Mining OI Indiana  
 (3) Transferred from Shewan Mining Company

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

This permit, ACT/007/004, is issued for the State of Utah by the Utah Division of Oil, Gas and Mining (Division) to:

Amax Coal Company  
P. O. Drawer PMC  
Price, Utah 84501  
(801) 637-2875

for the Castle Gate Mine. Amax Coal Company is the lessee of Federal Coal Leases U-25484, U-25485, U-058184, U-019524, SL-029093-046653, and SL-07137; State Leases ML-11940, ML-18148, and ML-13681; and of fee-owned parcels. A Surety Bond is filed with the Division in the amount of \$4,415,505.00, 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 Castle Gate Mine situated in the state of Utah, Carbon County, and located in:

**Township 12 South, Range 9 East, SLB & M**

**Section 22:**    Portions of SE1/4 SW1/4 and SW1/4 SE1/4  
**Section 26:**    All but E1/2 E1/2  
**Section 27:**    All  
**Section 28:**    All  
**Section 29:**    All but N1/2 NW1/4 and NW1/4 NE1/4  
**Section 30:**    All but N1/2 N1/2  
**Sec. 31, 32,**  
**Sec. 33, 34:**    All  
**Section 35:**    Portions of N1/2, W1/2 SW1/4, and SE1/4 SE1/4  
**Section 36:**    S1/2 NW1/4 and portions of SW1/4 and NE1/4

Township 13 South, Range 9 East, SLB & M

- Section 1: Portion of NW1/4 NW1/4
- Section 2: Portions of NE1/4 and NW1/4
- Section 3: NW1/4 and portions of NE1/4, SE1/4 and SW1/4
- Section 4: N1/2 and portions of SE1/4 and SW1/4
- Section 5: NE1/4 and portions of NW1/4, SE1/4 and SW1/4
- Section 6: N1/2 and portions of SW1/4 and SE1/4
- Section 8: Portion of NE1/4
- Section 9: Portions of NE1/4, NW1/4 and SW1/4
- Section 10: Portions of NE1/4 and NW1/4

This legal description is for the permit area (as shown on Attachment A) of the Castle Gate 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 December 24, 1994 and expires on December 24, 1999.
- 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 R645-303-300.
- 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, R645-400-220, 30 CFR 842.13 and R645-400-110;
  - (b) be accompanied by private persons for the purpose of conducting an inspection in accordance with R645-400-100 and

R645-400-200 when the inspection is in response to an alleged violation reported to the Division by a 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 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**      **DISPOSAL OF POLLUTANTS** -The permittee shall dispose of solids, sludge, filter backwash or pollutants in the course of treatment or control of waters or emissions to the air in the manner required by the approved Utah State Program and the Federal Lands Program which prevents violation of any applicable state or federal law.
- Sec. 10**     **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. 11**      **EXISTING STRUCTURES** - As applicable, the permittee will comply with R645-301 and R645-302 for compliance, modification, or abandonment of existing structures.
- Sec. 12**      **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. 13**      **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. 14**      **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. 15**      **PERMIT RENEWAL** - Upon expiration, this permit may be renewed for areas with the boundaries of the existing permit in accordance with the Act, the approved Utah State Program and the Federal Lands Program.
- Sec. 16**      **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. 17**      **APPEALS** - The permittee shall have the right to appeal as provided for under R645-300-200.
- Sec. 18**      **SPECIAL CONDITIONS** - In addition to the general obligations and/or requirements, there are special conditions associated with this permitting actions, as described in Attachment A.

The above conditions (Secs. 1-18) 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: Jason O'Neil  
Date: December 22, 1994

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

PERMITTEE

Jim Sam Hart  
Authorized Representative of Permittee  
Date: 1/17/95

ACT/007/004  
Permit  
December 24, 1994  
Page 6

ATTACHMENT A

- 1) The requirements of Division Order ACT/007/004-DO-94A issued on August 18, 1994 are incorporated as a condition of this permit.

**CYPRUS AMAX MINERALS COMPANY**  
Memorandum

Date: October 5, 1994

To: Lonnie Mills, Cyprus Plateau, Price UT

From: Karen U. Galvin  
Risk Management

RE: Bond Rider

---

Forwarded to you herewith is CNA's General Purpose Rider increasing the amount of Bond Number 9298055 from \$2,683.00 to \$4,415,505.00 as you requested.



For All the Commitments You Make<sup>®</sup>

Permit No. ACT/007/004  
Mine Name - Castle Gate Mine

**GENERAL PURPOSE RIDER**

To be attached to and form part of Bond Number **929 80 55** effective **January 31, 1986**

issued by the **National Fire Insurance Company of Hartford** in the amount of  
**Two Million Six Hundred Eighty Three Thousand**  
**Six Hundred Three & no/100** DOLLARS, on behalf of **Castle Gate Coal Company**

as Principal and in favor of **State of Utah, Division of Oil, Gas and Mining, and the** as obligee:  
**U.S. Department of the Interior**

Now, Therefore, it is agreed that:

**The Principal's name is hereby amended from the above to:**  
**Amax Coal Company**

and

**The penal sum of the bond is hereby amended from the above to:**  
**Four Million Four Hundred Fifteen Thousand Five Hundred Five**  
**and No/100----(\$4,415,505.00)**

It is further understood and agreed that all other terms and conditions of this bond shall remain unchanged.

This rider is to be effective the **3rd** day of **October** **1994**

Signed, sealed and dated this **3rd** day of **October** **19 94**

**Amax Coal Company** (Principal)

By: *Fareed H. Hakimi*  
**F.S. Hakimi, Asst. Treasurer**

**National Fire Insurance**  
**Company of Hartford** (Surety)

By: *Wendy W. Stuckey*  
**Wendy W. Stuckey** Attorney-in-Fact

Accepted By:

\_\_\_\_\_  
\_\_\_\_\_

National Fire Insurance Company of Hartford



For All the Commitments You Make®

Office/Chicago, Illinois

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men by these Presents, That the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD, a corporation duly organized and existing under the laws of the State of Connecticut, and having its general administrative office in the City of Chicago, and State of Illinois, does hereby make, constitute and appoint Mary C. Jones, William N. Burke, Jr., Dan W. Burton, Michelle M. Urley, Karen D. Grammer, Wendy W. Stuckey, Individually

of Houston, Texas its true and lawful Attorney-in-Fact with full power and authority hereby conferred to sign, seal and execute in its behalf bonds, undertakings and other obligatory instruments of similar nature - In Unlimited Amounts -

and to bind the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of NATIONAL FIRE INSURANCE COMPANY OF HARTFORD and all the acts of said Attorney, pursuant to the authority hereby given are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the following Resolution duly adopted on February 17, 1993 by the Board of Directors of the Company.

RESOLVED: That the Chairman of the Board of Directors, the President or any Executive, Senior or Group Vice President of the Corporation may, from time to time, appoint, by written certificates, Attorneys-in-Fact to act in behalf of the Corporation in the execution of policies of insurance, bonds, undertakings and other obligatory instruments of like nature. Such Attorney-in-Fact, subject to the limitations set forth in their respective certificates of authority, shall have full power to bind the Corporation by their signature and execution of any such instrument and to attach the seal of the Corporation thereto. The President, an Executive Vice President, any Senior or Group Vice President or the Board of Directors may at any time revoke all power and authority previously given to any Attorney-in-Fact.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 17th day of February, 1993.

RESOLVED: That the signature of the President, an Executive Vice President or any Senior or Group Vice President and the seal of the Corporation may be affixed by facsimile on any power of attorney granted pursuant to the Resolution adopted by this Board of Directors on February 17, 1993 and the signature of a Secretary or an Assistant Secretary and the seal of the Corporation may be affixed by facsimile to any certificate of any such power, and any power or certificate bearing such facsimile signatures and seal shall be valid and binding on the Corporation. Any such power so executed and sealed and certified by certificate so executed and sealed, shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Corporation.

In Witness Whereof, the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD has caused these presents to be signed by its Group Vice President and its corporate seal to be hereto affixed this 8th day of August, 1994.

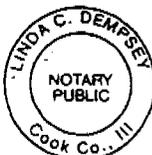
NATIONAL FIRE INSURANCE COMPANY OF HARTFORD



M. C. Vonnahme Group Vice President.

State of Illinois, County of Cook, ss:

On this 8th day of August, 1994, before me personally came M. C. Vonnahme, to me known, who, being by me duly sworn, did depose and say: that he resides in the Village of Downers Grove, State of Illinois; that he is a Group Vice President of the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD, the corporation described in and which executed the above instrument; that he knows the seal of said Corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.



Linda C. Dempsey Notary Public, My Commission Expires October 19, 1994

CERTIFICATE

I, George R. Hobaugh, Assistant Secretary of the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD, do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the Resolutions of the Board of Directors, set forth in said Power of Attorney are still in force. In testimony whereof I have hereunto subscribed by name and affixed the seal of the said Company this 3rd day of October, 1994.



George R. Hobaugh Assistant Secretary.

Bond Number 929 80 55  
 Permit Number ACT/007/004  
 Mine Name Castle Gate Coal Company

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 Castle Gate Coal Company as principal, and National Fire Insurance Company of Hartford 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 Two million six hundred eighty three thousand six hundred and three dollars (\$2,683,603.00). 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 24th day of December, 19 84, that 134.5 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.

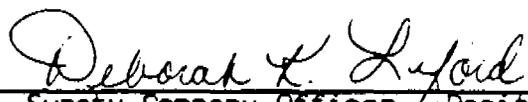
NOTE: Where one signs by virtue of Power of Attorney for a surety company, such Power of Attorney must be filed with this bond. If the principal is a corporation, the bond shall be executed by its duly authorized officer.

CASTLE GATE COAL COMPANY  
Principal (Company)

By   
Company Officer - Position  
William R. Wahl - President

Date: 1/31/84

National Fire Insurance Company of Hartford  
Surety (Company)

By   
Surety Company Officer / Position  
Deborah K. Liford Attorney in Fact

DATE: 1/31/86

APPROVED AS TO FORM:

By \_\_\_\_\_  
Assistant Attorney General

AFFIDAVIT OF QUALIFICATION

Deborah K. Liford, being first duly sworn, on oath deposes and  
Attorney in Fact of  
says that he/she is the (officer or agent) National Fire Insurance Company of  
Hartford  
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) Deborah K. Liford  
Surety Company Officer - Position  
Deborah K. Liford Attorney in Fact

Subscribed and sworn to before me this 31st day of January, 19 86.

Sandra Kay Benge  
Notary Public

My Commission Expires:

2/17, 19 89

National Fire Insurance Company of Hartford



Chicago, Illinois

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men by these Presents, That the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD, a corporation duly organized and existing under the laws of the State of Connecticut, and having its general administrative office in the City of Chicago, and State of Illinois, does hereby make, constitute and appoint Deborah K. Liford, Individually

of Indianapolis, Indiana

its true and lawful Attorney-in-Fact with full power and authority hereby conferred to sign, seal and execute in its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of NATIONAL FIRE INSURANCE COMPANY OF HARTFORD and all the acts of said Attorney, pursuant to the authority hereby given are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the following Resolution duly adopted on February 21, 1955 by the Board of Directors of the Company.

RESOLVED: That the President, an Executive Vice President or any Vice President of the Corporation may, from time to time, appoint, by written certificates, Attorneys-in-Fact to act in behalf of the Corporation in the execution of policies of insurance, bonds, undertakings and other obligatory instruments of like nature. Such Attorneys-in-Fact, subject to the limitations set forth in their respective certificates of authority, shall have full power to bind the Corporation by their signature and execution of any such instrument and to attach the seal of the Corporation thereto. The President, an Executive Vice President, any Vice President or the Board of Directors may at any time revoke all power and authority previously given to any Attorney-in-Fact.

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 14th day of May, 1964.

RESOLVED: That the signature of the President, an Executive Vice President or a Vice President and the seal of the Corporation may be affixed by facsimile on any power of attorney granted pursuant to the Resolution adopted by this Board of Directors on February 21, 1955 and the signature of a Secretary or an Assistant Secretary and the seal of the Corporation may be affixed by facsimile to any certificate of any such power, and any power or certificate bearing such facsimile signatures and seal shall be valid and binding on the Corporation. Any such power so executed and sealed and certified by certificate so executed and sealed, shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Corporation.

In Witness Whereof, the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed this 13th day of May, 1985



NATIONAL FIRE INSURANCE COMPANY OF HARTFORD

J. E. Purtell

J. E. Purtell

Vice President.

State of Illinois, County of Cook, ss:

On this 13th day of May, 1985, before me personally came

J. E. Purtell, Glenview,

to me known, who, being by me duly sworn, did depose and say: that he resides in the Village of State of Illinois; that he is a Vice-President of the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD, the

corporation described in and which executed the above instrument; that he knows the seal of said Corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.



Leslie A. Smith

Leslie A. Smith

Notary Public.

My Commission Expires November 12, 1986

CERTIFICATE

I, M. C. Vonnahme, Assistant Secretary of the NATIONAL FIRE INSURANCE COMPANY OF HARTFORD, do hereby certify that the Power of Attorney herein above set forth is still in force, and further certify that the Resolutions of the Board of Directors, set forth in said Power of Attorney are still in force. In testimony whereof I have hereunto subscribed by name and affixed the seal of the said Company this

31st day of January, 1986



M. C. Vonnahme

M. C. Vonnahme

Assistant Secretary

Exhibit "A"

A legal description of the disturbed area which this bond represents:

Township 12 South, Range 9 East, SLBM  
Section 22, portion; Section 27, portion; Section 28, portion;  
Section 29, portion; Section 35, portion; Section 36, portion.

Township 13 South, Range 9 East, SLBM  
Section 1, portion; Section 3, portion; Section 4, portion;  
Section 9, portion; Section 10, portion.

The bond also temporarily covers the following areas for which  
Price River Coal Company will remain responsible:

Township 12 South, Range 9 East, SLBM  
Section 36, portion.

Township 12 South, Range 10 East, SLBM  
Section 31, portion.

Township 13 South, Range 9 East, SLBM  
Section 1, portion.

Township 13 South, Range 10 East, SLBM  
Section 6, portion; Section 16, portion; Section 10, portion.

These areas shown on Castle Gate Coal Company's Permit Map  
No. CG-8601-12-1/1. Exhibit 1-1 in Map Supplement.

REVISED 2/28/86

UMC 788.18 APPLICATION FOR APPROVAL  
TRANSFER, ASSIGNMENT OR SALE OF PERMIT RIGHT

This is an application for transfer of certain permit rights under the Utah Coal Program from Price River Coal Company, the existing permittee, to Castle Gate Coal Company, a Delaware corporation.

788.18(a)(2)(i)

Existing Permittee

Price River Coal Company P. O. Box 629  
Helper, Utah 84526

788.18(a)(2)(ii)

Applicant

Castle Gate Coal Company

Castle Gate Coal Company

Corporate Office:  
P. O. Box 967  
105 South Meridian Street  
Indianapolis, IN 46206

Field Office:  
P. O. Box 449  
Helper, Utah 84526

Resident Agent for Service

C. T. Corp. System  
170 South Main Street  
Salt Lake City, Utah 84101  
(801) 364-1228

782.13(a) Identification of Interests

Names and Addresses

1. Permit Applicant

Castle Gate Coal Company

Castle Gate Coal Company

Corporate Office:  
P. O. Box 967  
South Meridian Street  
Indianapolis, Indiana 46206

Field Office:  
P. O. Box 449  
Helper, Utah 84526  
Telephone: (801) 472-5523

2. Legal or Equitable Owners of Record

The legal or equitable owners of the areas to be affected by the surface operations and facilities are:

The surface to be affected is owned by:

Blackhawk Coal Company

Principal (Legal) Office: Suite 400,  
Deseret Building  
Salt Lake City, Utah 84111

Accounting Office: One Summit Square,  
P. O. Box 60  
Fort Wayne, Indiana 46801

Coal to be mined is owned by: Blackhawk Coal Company  
State of Utah  
United States of America.

3. The holders of record of any leasehold interest in areas to be affected by surface operations or facilities or coal to be mined:

Blackhawk Coal Company  
Suite 400, Deseret Building  
Salt Lake City, Utah 84111

Meadowlark Utah, Inc.  
P. O. Box 967  
105 South Meridian Street  
Indianapolis, Indiana 46202

4. There are no purchases of record under a real estate contract of the areas affected by surface operations and facilities or coal to be mined.

5. The Operator is:

Castle Gate Coal Company

Castle Gate Coal Company

Corporate Office:  
P. O. Box 967  
104 South Meridian Street  
Indianapolis, Indiana 46206

Field Office:  
P. O. Box 449  
Helper, Utah 84526  
Telephone: (801) 472-5523

6. The resident agent of the Applicant who will accept service of process:

C. T. Corporation  
170 South Main Street  
Salt Lake City, Utah 84101

782.13(b)

Applicant is a Utah corporation.

782.13(b)(i)

Names and addresses of officers and directors of the applicant:

Officers:

Richard Clark	President
William R. Wahl	Vice President
Gary Foster	Vice President
Helen M. Feeney	Vice President & Secretary
Wayne E. Gresham	Vice President
Lee A. Nickerson	Assistant Treasurer
Dennis Arrouet	Vice President & Treasurer
Donald E. Coovert	Assistant Secretary
Raymond J. Cooke	Assistant Secretary
Twyla M. Slongo	Assistant Secretary
Harold E. Davis	Assistant Treasurer
William A. Fike	Assistant Treasurer

Directors

Helen M. Feeney	Sole Director
-----------------	---------------

The address for Messrs. Wahl, Clark, Gresham, Nickerson, Coovert and Slongo is:

P. O. Box 967  
105 South Meridian Street  
Indianapolis, Indiana 46206

The address for Messrs. Arrouet, Foster, Feeney and Cooke is:

AMAX Center  
P. O. Box 1700  
Greenwich, CT 06836

782.13(b)(2)

Names and addresses of principal shareholders of applicant:

All stock of Castle Gate Coal Company is owned by:

AMAX Inc.  
P. O. Box 1700  
Greenwich, CT 06836  
Telephone: (203) 629-6000

782.13(b)(3)

Names under which the applicant and principal shareholders have previously operated mining activities:

AMAX Inc. has operated underground and/or surface coal mining activities under the name of AMAX Coal Company, a division of AMAX Inc.

Heavener Coal Company, a wholly owned subsidiary of AMAX Coal Sales Company, which is in turn a wholly owned subsidiary of AMAX Inc., has been the co-applicant for certain permits but has not operated any underground and surface coal mining operations.

AMAX Inc. is also the owner of Roaring Creek Coal Company. Roaring Creek Coal Company is in turn a part owner of Kentucky Prince Mining Company. The Kentucky Prince Mining Company is permittee for certain coal mining operations.

782.13(c)

The names and addresses of principal, officers and resident agents of corporate entities listed in response to Section 782.13(a) are as follows:

1. Blackhawk Coal Company

Directors

William A. Black  
John E. Katlic  
Richard E. Disbrow  
John E. Dolan  
G. P. Maloney  
W. S. White  
Peter J. DeMaria

Officers

W. S. White, Jr.  
John E. Katlic  
William A. Black  
Richard E. Disbrow  
John E. Dolan  
G. P. Maloney  
Peter J. DeMaria  
John R. Burton  
Elio Bafile

President  
Executive Vice President  
Vice President  
Vice President  
Vice President  
Vice President  
Treasurer  
Secretary  
Assistant Secretary &  
Assistant Treasurer  
Assistant Secretary  
Assistant Secretary  
Assistant Secretary  
Assistant Treasurer  
Assistant Treasurer  
Assistant Treasurer

John F. DiLorenzo, Jr.  
A. Joseph Dowd  
William E. Olson  
Leonard V. Assante  
Gerald R. Knorr  
James D. Huebner

Address of Directors and Officers:

c/o Blackhawk Coal Company  
Suite 400, Deseret Building  
Salt Lake City, Utah 84111

Address of Resident Agent:

William A. Marshall  
Suite 400, Deseret Building  
Salt Lake City, Utah 84111

2. Meadowlark Utah, Inc.

Director

Helen Feeney

Sole Director

Officers

Tom Blangiando  
Helen Feeney

President  
Vice President &  
Secretary  
Vice President  
Vice President &  
Assistant Secretary  
Vice President  
Assistant Secretary  
Assistant Treasurer  
Vice President  
Assistant Treasurer

Richard R. Clark  
Wayne E. Gresham

Gary Foster  
Raymond Cooke  
Harold E. Davis  
George W. Womack  
Dennis Arrouet

Lee A. Nickerson  
Donald E. Coovert  
William Fike

Vice President & Treasurer  
Assistant Secretary  
Assistant Treasurer

The address for Messrs. Blangiando, Clark, Sprague, Gresham, Womack, Nickerson and Coovert is:

P. O. Box 967  
105 South Meridian Street  
Indianapolis, Indiana 46206

The address for Messrs. Feeney, Arrouet, Foster, Cooke, Davis, Fike is:

AMAX Center P.O. Box 1700  
Greenwich, CT 06836

The address of the resident agent is: C.T. Corporation System  
170 South Main Street  
Salt Lake City, Utah 84101

Current or previous coal mining permits or pending permit applications:

1. See Attachment #3

782.13(e)

Owners of record of surface and subsurface areas contiguous to the permit area:

	<u>Surface</u>	<u>Sub-Surface</u>
Blackhawk Coal Company, Suite 400, Deseret Building, Salt Lake City, UT 84111	x	x
Bill N. Diamanti, Chris N. Diamanti, Lee N. Diamanti, Nick G. Diamanti c/o Lee Diamanti 505 South Carbon Avenue, Price, UT 84501	x	
Duvels, Inc. 90 West First North, Price, UT 84501	x	x
Energy Fuels, Ltd.	x	
Larson Investment Co. 67 North Main, Bountiful, UT 84010	x	
Gene Pappas 104 East 400 North, Price, UT 84501	x	

Gene, John and Nick Pappas Box 445, Price, UT 84501	x	
City of Price Municipal Building Price, UT 84501	x	
Price River Water Improvement District Price, UT 84501	x	
State of Utah	x	x
United States of America	x	x
UP&L Highway 10, Price, UT 84501	x	x

782.13(f)

The name of the mine is Castle Gate Mine. MSHA I.D. Numbers for this mine are:

Roof Control	
Castle Gate Portal #3	42-00165
Castle Gate Portal #5	42-01202
Ventilation	
Castle Gate Portal #3	42-00165
Castle Gate Portal #5	42-01202
Coal Plant	42-01517
Refuse Pile Pond	1211-UT-09-01517-02
Castle Gate Refuse Disposal Site	1211-UT-09-01517-01
Barn Canyon Refuse Site	1211-UT-9-0029

782.13(g)

There are no outstanding interests in lands, options or pending bids on interests held or made by the Applicant for lands which are contiguous to the area to be covered by the permit.

Upon consummation of all transactions contemplated by the Lease Transaction agreement executed by and between applicant, Meadowlark Utah, Inc., Blackhawk Coal Company and Price River Coal Company on January 31, 1986, (hereinafter called the "Lease Transaction Agreement"), Applicant or Meadowlark Utah, Inc., will acquire certain rights of first refusal with respect to the acquisition of interests in certain adjoining property.

782.14 COMPLIANCE INFORMATION

a. Statement of Compliance

Neither the Applicant, nor any of its subsidiaries, affiliates or persons controlled by or under common control with the Applicant has had a federal or state mining permit suspended or revoked in the last five years; nor forfeited a mining bond or similar security deposited in lieu of bond.

b. This section does not apply.

c. Violation Notices received by the Applicant in connection with any underground or surface coal mining activities within the last three years: NONE

2.2 UMC 782.15 Right of Entry and Operations Information

a. Applicant Castle Gate Coal Company will obtain the legal right to enter and begin activities on the Closing Date specific in the Lease Transaction Agreement by virtue of the various leases and subleases to be executed pursuant to the Lease Transaction Agreement or a Letter of Agreement between Blackhawk Coal Company and Castle Gate Coal Company.

The right of entry to commence underground mining operations will apply to the following property:

Township 12 South, Range 8 East, Salt Lake Base  
and Meridian (SLBM)  
Section 35 - All  
Section 36 - All

Township 13 South, Range 8 East, SLBM  
Section 2 - Part of the West 1/2

Township 12 South, Range 9 East, SLBM  
Section 22 - SE-1/4 SW-1/4, SW-1/4 SE-1/4, that part of  
SE-1/4 SE-1/4 West of the Price River  
Section 25 - SW-1/4  
Section 26 - All  
Section 27 - All  
Section 28 - All  
Section 29 - S-3/4, NE-1/4 NE-1/4  
Section 30 - S-3/4  
Section 31 - All  
Section 32 - All  
Section 33 - All  
Section 34 - All  
Section 35 - S-3/4 that part of N-1/2 N-1/2 west of Price

River

Section 36 - SE-1/4 NW-1/4, SW-1/4 NE-1/4, NW-1/4 SE-1/4,  
SW-1/4

Township 13 South, Range 9 East, SLBM

Section 1 - That part of the W-1/2 west of the Price River,  
and that part of N-1/2 NW-1/4 east  
of the Price River

Section 2 - All

Section 3 - All

Section 4 - All

Section 5 - All

Section 6 - All

Section 8 - All except SW-1/4 SW-1/4 and a portion of  
SE-1/4 SW-1/4

Section 9 - All

Section 10 - N-1/2, part of NE-1/4 SW-1/4

Section 11 - N-1/2 SW-1/4, part of S-1/2 NW-1/4

Section 12 - That part of NW-1/4 west of the Price River

Section 16 - All except NE-1/4 NE-1/4 and E-3/4 N-1/2 SE-1/4

Section 17 - NE-1/4, NE-1/4 SE-1/4

(b) this section does not apply.

UMC 782.16(c) Relationship to Areas Designated Unsuitable for Mining

- c. No surface operations are not located within three hundred feet  
of an occupied dwelling.

UMC 782.18 Personal Injury and Property Damage Insurance Information

See Attachments #4 and 5 - Certificates of Insurance

UMC 782.19 Identification of Other Licenses and Permits

See Attachment #6 - Other Licenses and Permits

UMC 788.18(b)(1) Newspaper Advertisement and Proof of Publication

Notice of this proposed transfer will be submitted to the  
Newspaper, Sun Advocate in Price, Utah, in substantially the  
following form on the Closing Date. Proof of publication will be  
submitted to the Division upon publication.

Notice is hereby given that Castle Gate Coal Company, P. O. Box  
449, Helper, Utah 84526, has submitted an application to the  
State Mining for transfer of a permit to operate under the  
provisions of the Utah Coal Mining and Reclamation Act (Utah  
Code Ann. 40-10-1 et seq.) and the Utah Coal Program  
Regulation UMC 788.18. The previous permittee was the Price  
River Coal Company, Permit No. ACT/007/004. The permit area is  
located in Carbon County, Utah as follows:

Township 12 South, Range 9 East, SLBM  
SW-1/4 Section 25; Section 26; Section 27; Section 28; Section  
29 all except N-1/2 NW-1/4 and NW-1/4 NE-1/4; Section 30 all  
except N-1/2 N-1/2; Section 31; Section 32; Section 33; Section  
34; Section 35, portion; Section 36, portion.

Township 13 South, Range 9 East, SLBM  
Section 1, portion; Section 2, portion; Section 3, portion;  
Section 4, portion; Section 5, portion; Section 6, portion;  
Section 8, portion; Section 9, portion; Section 10, portion.

This permit area for which responsibility is being transferred  
is shown on Castle Gate Coal Company's Permit Map  
No. CG-8601-12-1/1.

The permit also includes property including the following areas  
for which responsibility is not being transferred:

Township 12 South, Range 9 East, SLBM  
Section 36, portion

Township 12 South, Range 10 East, SLBM  
Section 31, portion

Township 13 South, Range 9 East, SLBM  
Section 1, portion

Township 13 South, Range 10 East, SLBM  
Section 6, portion; Section 10, portion; Section 16, portion.

The project area is shown on the following U.S. Geological  
Survey 7.5-minute maps:

Standardville, Kyune, Matt's Summit, Helper and Deadman Canyon.

Pertinent comments are solicited from anyone affected by this proposal. Such comments should be filed within the next thirty (30) days with:

State of Utah  
Department of Natural Resources  
Division of Oil, Gas & Mining  
355 West North Temple  
III Triad, Suite 350  
Salt Lake City, Utah 84108

UMC 771.25:

A filing fee of \$5.00 is submitted with this application.

UMC 771.27 Verification of Application

This application is submitted on behalf of Castle Gate Coal Company as of this 4<sup>th</sup> day of February, 1986 by Richard Clark, the Vice President of Castle Gate Coal Company.

Richard R. Clark

STATE OF INDIANA     )  
                                  : SS  
COUNTY OF MARION    )

Richard R. Clark, having been first duly sworn, appeared before me and stated as follows:

1. That he was the person who executed the foregoing application as Vice President of Castle Gate Coal Company;
2. That he had read the same and knew the contents thereof; and
3. That the matters stated therein were true to the best of his knowledge.

SUBSCRIBED AND SWORN to before me this 4<sup>th</sup> day of February, 1986.

Karen D. Hahn  
Notary Public

Marion County, Indiana  
County of Residence

My Commission Expires:

August 16, 1988

PRICE RIVER COAL COMPANY

P.O. BOX 629 HELPER, UTAH 84526 (801) 472-3411

January 31, 1986

Dr. Dianne R. Nielson, Director  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 89180-1203

Re: Price River Coal Company Permit  
#ACT-007-004 Transfer

Dear Dr. Nielson:

The purpose of this letter is to assure the State of Utah, Division of Oil, Gas and Mining ("DOGM") that Price River Coal Company ("Price River") will maintain sufficient bond as required by DOGM to secure the performance of Price River's obligations under Permit No. ACT-007-004 (the "Permit") covering the area shown outlined on the map attached hereto marked Exhibit 1 entitled "Revised Permit Area (Attachment #2)" and hereby made a part hereof, said outlined area being generally referred to as the Eastern Reserve Area, subject to, and following, the transfer to and assumption by Castle Gate Coal Company ("Castle Gate") of all obligations under the Permit with respect to the areas West of the Price River and those areas lying East of the Price River dedicated to the Castle Gate Preparation Plant or overlying Federal Coal Leases No. SL071737 dated September 1, 1950 and No. SL029093-046653 dated June 17, 1921, respectively.

Very truly yours,



J. E. Katlic  
Executive Vice President and  
Chief Operating Officer

jf

2.3 Compliance Information

ATTACHMENT 3

AMAX Inc.

PERMITS AND PENDING APPLICATIONS  
FOR THE PERIOD 5/31/72 - 1/31/86

ILLINOIS

Issuing authority is the Illinois Department of Mines and Minerals.

For the period from 1971 through 1972, one permit covered all mining by AMAX Coal Company in the State of Illinois under the following numbers:

NON ACTIVE:

006-71      001-72      012-73

AYRCAT MINE (AMAX Coal Company)

NON ACTIVE:

651-80      190-76      479-76

DELTA MINE (AMAX Coal Company)

NON ACTIVE:

012-73    141-74    311-75    416-76    425-76    205-77    562-79  
566-79    642-80    650-80    652-80    841-82    907-83    925-83  
965-84    987-84    566-79    001-72    006-71    964-84

Amendment 1 to 562-79    Amendment 1 to 642-80    Amendment 1 to 925-83  
Amendment 2 to 562-79    Amendment 1 to 650-80    Amendment 4 to 562-79  
Amendment 3 to 562-79    Amendment 1 to 652-80  
Amendment 1 to 907-83    Amendment 1 to 841-82  
Amendment 2 to 907-83    Amendment 2 to 841-82

ACTIVE:

80      81      82      83

LEAHY MINE (AMAX Coal Company)

NON ACTIVE:

065-73    179-74    292-75    433-76    511-79    571-79    838-82  
909-82    011-72    006-71

ccd.Chapter2

Amendment 1 to 571-79    Amendment 1 to 838-82  
Amendment 2 to 571-79    Amendment 2 to 838-82  
Amendment 3 to 571-79  
Amendment 4 to 571-79

ACTIVE:    78            79            142

SUN SPOT MINE (AMAX Coal Company)

NON ACTIVE:

66-73        169-74        308-75        438-76        523-78        550-79        611-79  
612-79        618-79        837-82        854-82        904-83        963-84        001-72  
006-71        984-84        618-78

Amendment 1 to 550-79    Amendment 1 to 611-79  
Amendment 2 to 550-79    Amendment 1 to 618-79  
Amendment 3 to 550-79    Amendment 1 to 837-82  
Amendment 4 to 550-79    Amendment 2 to 837-82  
Amendment 1 to 854-82    Amendment 1 to 904-83  
Amendment 2 to 854-82    Amendment 2 to 904-83

ACTIVE:

23        24        25        26

WABASH MINE (AMAX Coal Company)

NON ACTIVE:

870-83

Amendment 1 to 870-83

ACTIVE:

39        158

INDIANA

Issuing authority is Indiana Department of Natural Resources.

AYRCOE MINE (AMAX Coal Company)

NON ACTIVE:

71-18        72-21        73-38        74-31        75-52        76-38        76-37  
77-81        73-23

AYRSHIRE MINE (AMAX Coal Company)

NON ACTIVE

73-9	73-24	74-32	75-53	76-39	77-82	77-82A
78-109	78-109A	78-110	78-110A	78-110AA	78-111	79-92
80-51	80-51A	81-95	79-92A			

ACTIVE:

S00004	S00004-1	S00004-2	S00004-3
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CHINOOK MINE (AMAX Coal Company)

NON ACTIVE:

71-20	72-22	73-25	74-33	75-54	76-40	76-41
76-42	77-85	77-83	77-84	78-98	78-98A	78-99
78-99A	78-a00	78-a00A	78-101	79-93	79-93A	79-94
79-94A	80-49	80-50	81-66	81-67		

ACTIVE:

P00004	S00039	S0039-1	S00063
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MINEHAHA MINE (AMAX Coal Company)

NON ACTIVE:

71-21	72-24	73-26	74-34	75-55	76-43	76-44
76-45	76-46	76-47	77-86	77-87	77-88	77-89
77-90	78-102	78-103	78-103A	78-104	78-104A	78-104AA
78-105	78-26	79-29	79-95	79-96	80-12	80-30
80-31	80-34	81-22	81-23	81-85	81-86	S00042
82-26	82-38					

ACTIVE:

S00040	S00040-1	S00041
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WABASH MINE (AMAX Coal Company)

ACTIVE:

U00001	U00001-1
--------	----------

WRIGHT MINE (AMAX Coal Company)

NON ACTIVE:

71-19	72-23	73-27	74-35	75-56	76-48	76-49
76-50	77-91	77-92	77-107	78-107	78-108	78-108A
79-97	79-98	79-98A	79-98AA	80-29	80-35	80-35A
80-39	81-59	81-59A	81-aa2	S00038	S00142	

KENTUCKY

Issuing authority is the Kentucky Department of Natural Resources and Environmental Protection.

KENTUCKY PRINCE MINE (Kentucky Prince Mining Company)

ACTIVE:

8665038

AYR GEM MINE (AMAX Coal Company)

NON ACTIVE:

289-0338	5494-76	2034-74	2687-73D-Sup. #3
289-0318	2034-75-D	2034-73	2687-73D-Sup. #2
289-0317	2034-75-Sup. #2	2034-73D-Sup. #5	2687-73D-Sup. #1
289-1081	2687-75-D	2034-73-Sup. #4	2687-73D
289-7002	2034-75-Sup. #1	2034-73-Sup. #3	2034-72
289-7000	2034-75	2034-73-Sup. #2	2034-71-Sup. #1
6425-77	2034-74-Sup. #2	2034-73-Sup. #1	2034-71
6377-77	2034-74-Sup. #1	2687-73D-Sup. #5	
5309-76	2034-R	2687-73-Sup. #4	

WYOMING

Issuing authority is the Wyoming Department of Environmental Quality.

BEELE AYR MINE (AMAX Coal Company)

NON ACTIVE:

214-C 126  
214-C-A1 214-T1 214-T1-R1

ACTIVE:

214-T2

EAGLE BUTTE MINE (AMAX Coal Company)

NON ACTIVE:

418 428-A1 428-A2 428-R1

OKLAHOMA

Issuing authority is the Oklahoma Department of Mines.

PINE MOUNTAIN MINE (Heavener Coal Company)

ACTIVE:

3077

3101

4035 (Pending)

## 2.4 RELATIONSHIP TO AREAS DESIGNATED UNSUITABLE FOR MINING

### 2.4-1 Suitability for Underground Mining

The proposed permit area is not within an area designated unsuitable for underground coal mining activities under 30 CFS 764, 765, and 769.

### 2.4-2 Planning and Zoning Criteria

The proposed permit area is in the Wattis Planning Unit in the northwest portion of the Price River Resource Area, Moab District. The Wattis Planning Unit Management Framework Plan (MFP) was completed in March, 1973.

The MFP was updated in September, 1978, and took into consideration 22 criteria developed under the Surface Mining Control and Reclamation Act. The MFP stipulates that mining of the tracts would be through proposed facilities operated by Price River Coal. Also, surface disturbing activities would meet BLM requirements for visual resource management and would be limited to protect forest resource, watershed, grazing, recreation, and wildlife habitat.

The 1974 Revised Zoning Ordinance for Carbon County designated the proposed permit area as M & GL Zone. The primary use allowed in this zone is mining and livestock grazing. Carbon County has updated its zoning ordinance as of June, 1980. This has resulted in a redesignation of lands within our Mine Plan Area. The No. 3 and No. 5 portal areas are now considered Critical Environment-2 (CE-2), which allows for controlled mining activities. The remainder of the mining area west of State Route No. 6 is designated as Critical Environment-1

(CE-1), which currently does not allow for surface disturbance. We have petitioned the Carbon County Zoning Board for change to CE-2 in Crandall Canyon and will need to do likewise for any future developments on the west side. On March 10, 1981, the Carbon County Zoning Board voted unanimously to approve the zoning change we requested for the Crandall operation.

#### 2.4-3 Activity or Facilities Near Dwellings

Price River Coal Company does not contemplate conducting or locating surface operations or facilities within 300 feet of an occupied dwelling. There are no occupied dwellings within one mile of the mining area.

#### 2.5 Permit Term

The permit term is December, 1984 to December, 1989.

The five year permit has no bearing on the development of this mining operation. We are, however, constrained to accept the five year permit period. Should regulations governing underground mining fail to be amended to more closely reflect reality, we are prepared to undergo re-permitting every five years.

Regulation 782.17 requires a schedule of starting and termination dates of each phase of the mining operation. The following schedule is based on actual current estimates of developmental stages of an ongoing, pre-law mining operation. There is no realistic way to include all proposed activities in a five year period, nor is there any quantity of information submittable that could satisfy the current

interpretation of the "full and complete" requirement. The schedule presumes permit renewal every five years. Details for the various activities are included in Chapter III.

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

This permit, ACT/007/004, is issued for the State of Utah by the Utah Division of Oil, Gas and Mining (Division) to:

Amax Coal Company  
P. O. Drawer PMC  
Price, Utah 84501  
(801) 637-2875

for the Castle Gate Mine. Amax Coal Company is the lessee of Federal Coal Leases U-25484, U-25485, U-058184, U-019524, SL-029093-046653, and SL-07137; State Leases ML-11940, ML-18148, and ML-13681; and of fee-owned parcels. A Surety Bond is filed with the Division in the amount of \$4,415,505.00, 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 Castle Gate Mine situated in the state of Utah, Carbon County, and located in:

**Township 12 South, Range 9 East, SLB & M**

**Section 22:**    Portions of SE1/4 SW1/4 and SW1/4 SE1/4  
**Section 26:**    All but E1/2 E1/2  
**Section 27:**    All  
**Section 28:**    All  
**Section 29:**    All but N1/2 NW1/4 and NW1/4 NE1/4  
**Section 30:**    All but N1/2 N1/2  
**Sec. 31, 32,**  
**Sec. 33, 34:**    All  
**Section 35:**    Portions of N1/2, W1/2 SW1/4, and SE1/4 SE1/4  
**Section 36:**    S1/2 NW1/4 and portions of SW1/4 and NE1/4

**Township 13 South, Range 9 East, SLB & M**

- Section 1:** Portion of NW1/4 NW1/4
- Section 2:** Portions of NE1/4 and NW1/4
- Section 3:** NW1/4 and portions of NE1/4, SE1/4 and SW1/4
- Section 4:** N1/2 and portions of SE1/4 and SW1/4
- Section 5:** NE1/4 and portions of NW1/4, SE1/4 and SW1/4
- Section 6:** N1/2 and portions of SW1/4 and SE1/4
- Section 8:** Portion of NE1/4
- Section 9:** Portions of NE1/4, NW1/4 and SW1/4
- Section 10:** Portions of NE1/4 and NW1/4

This legal description is for the permit area (as shown on Attachment A) of the Castle Gate 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 December 24, 1994 and expires on December 24, 1999.
- 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 R645-303-300.
- 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, R645-400-220, 30 CFR 842.13 and R645-400-110;
  - (b)** be accompanied by private persons for the purpose of conducting an inspection in accordance with R645-400-100 and

R645-400-200 when the inspection is in response to an alleged violation reported to the Division by a 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 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 DISPOSAL OF POLLUTANTS** -The permittee shall dispose of solids, sludge, filter backwash or pollutants in the course of treatment or control of waters or emissions to the air in the manner required by the approved Utah State Program and the Federal Lands Program which prevents violation of any applicable state or federal law.
- Sec. 10 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. 11**      **EXISTING STRUCTURES** - As applicable, the permittee will comply with R645-301 and R645-302 for compliance, modification, or abandonment of existing structures.
- Sec. 12**      **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. 13**      **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. 14**      **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. 15**      **PERMIT RENEWAL** - Upon expiration, this permit may be renewed for areas with the boundaries of the existing permit in accordance with the Act, the approved Utah State Program and the Federal Lands Program.
- Sec. 16**      **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. 17**      **APPEALS** - The permittee shall have the right to appeal as provided for under R645-300-200.
- Sec. 18**      **SPECIAL CONDITIONS** - In addition to the general obligations and/or requirements, there are special conditions associated with this permitting actions, as described in Attachment A.

The above conditions (Secs. 1-18) 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: *Jan Orl*  
Date: December 2, 1994

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

**PERMITTEE**

*Jim Sam Hart*  
Authorized Representative of Permittee  
Date 1/17/95

ACT/007/004  
Permit  
December 24, 1994  
Page 6

ATTACHMENT A

- 1) The requirements of Division Order ACT/007/004-DO-94A issued on August 18, 1994 are incorporated as a condition of this permit.

**RECORD OF 1994 CASTLE GATE SUBMITTALS TO DOGM**

NOTARY DATE	RECEIVED DATE	RESPONSE DATE	STATUS <sup>(a)</sup>	CONTENTS	PURPOSE
01/31/94	01/31/94	02/15/94	A	Chapter 8	Chapter 8, Soils: Text revisions.
09/02/94	09/07/94	10/25/94	AC <sup>(b)</sup>	3.2 text, Ex 3.2-4	Sowbelly Canyon: Access road, filter fabric
10/07/94	10/11/94	11/94	RMI-R	3.4 text, 3.4E, 3.4J, 3.4L	Refuse Area: CGD-5, CGD-19, CGC-4
11/09/94	11/18/94	12/14/94	RMI	3.3 text, Ex. 3.3-4A	Hardscrabble: No. 4 Canyon, exp. coal rec. plan CGC-4 as-built info.
	12/09/94	12/22/94	A	3.4 text, Ex. 7-3	Refuse Area: CGD-5 diversion outflow to Barn Canyon, All UPDES points
12/15/94	12/15/94	1/11/95	AC	3.2 text	Sowbelly Canyon: Reclamation ASCM's
12/29/94	12/29/94		UR	Letter	Crandall Canyon Soil sampling plan
			Pending submittal		Hardscrabble: Cover exp. coal plan, ASCM's
			Pending submittal		Sowbelly: As-built topo, hydrology calcs, tables

(a) Symbols:

A: Approved

AC: Approved with Comment

UR: Under Review

RMI: Request for More Information (developing resubmittal)

RMI-R: Request for More Information - Resubmitted

(b) Response letter was written 12/16/94 to address comments. Permit not altered.

**RECORD OF 1994 CASTLE GATE SUBMITTALS TO DOGM**

NOTARY DATE	RECEIVED DATE	RESPONSE DATE	STATUS <sup>(a)</sup>	CONTENTS	PURPOSE
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# ACORD CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)  3/24/93

**PRODUCER**

Frenkel & Co., Inc.  
123 William Street  
New York, NY 10038  
  
212-267-2200

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

**COMPANIES AFFORDING COVERAGE**

COMPANY LETTER	A	National Union Fire Insurance
COMPANY LETTER	B	
COMPANY LETTER	C	
COMPANY LETTER	D	
COMPANY LETTER	E	

**INSURED**

Amax Inc  
200 Park Avenue  
New York  
AMAX COAL COMPANY  
NY 10166

**COVERAGES**

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

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A X	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR. <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT. Includes Explosives Coverage	GL 1759094	4/01/93	4/01/94	GENERAL AGGREGATE \$ 6 000 000
					PRODUCTS-COMP/OP AGG. \$ 6 000 000
					PERSONAL & ADV. INJURY \$ 2 000 000
					EACH OCCURRENCE \$ 2 000 000
					FIRE DAMAGE (Any one fire) \$ 100 000
					MED. EXPENSE (Any one person) \$ 10 000
A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY	CA1430601	4/01/93	4/01/94	COMBINED SINGLE LIMIT \$ 2 000 000
					BODILY INJURY (Per person) \$
					BODILY INJURY (Per accident) \$
					PROPERTY DAMAGE \$
	<b>EXCESS LIABILITY</b> <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$
					AGGREGATE \$
A	<b>WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY</b>	WC1239348	4/01/93	4/01/94	STATUTORY LIMITS
					EACH ACCIDENT \$ 2 000 000
					DISEASE-POLICY LIMIT \$ 4 000 000
					DISEASE-EACH EMPLOYEE \$ 2 000 000

**DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS**

Castle Gate Mine - Permit #007/004

**CERTIFICATE HOLDER**

Utah Department of Natural Resources Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Ctr. Ste. 350 Salt Lake City, UT 84180-1203

**CANCELLATION**

changed and/or SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ~~SEND~~ MAIL 45 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. ~~IF THE POLICY IS CANCELLED BEFORE THE EXPIRATION DATE, THE ISSUING COMPANY WILL EXTEND COVERAGE TO THE EXPIRATION DATE.~~

AUTHORIZED REPRESENTATIVE

*D. V. Gianola* 015129000

SPILL PREVENTION CONTROL AND  
COUNTERMEASURES PLAN

ENVIRONMENTAL INDUSTRIAL SERVICES

SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN  
SURFACE STORAGE

ENVIRONMENTAL INDUSTRIAL SERVICES

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SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN  
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## Section I - Oil Spill Control and Countermeasures (SPCC) Plan (Non-PCB)

### 5-1.0.0 Purpose

The purpose of this Oil Spill Prevention, Control and Countermeasure (SPCC) Plan is to identify potential sources of oil spill, establish measures of prevention and delineate control and cleanup procedures for all sites where oil and/or diesel is temporarily stored at facilities located in Utah, Arizona, Colorado, Idaho and Nevada.

Responsibility for compliance with this plan lies with the Superintendent of Maintenance or other Responsible Individuals for this facility who has signed this plan and with the Company official who has signed this plan for Company management.

### 5-1.1.0 Legal Reference

Preparation of this plan is pursuant to Section 311, Oil and Hazardous Substance Liability of the Federal Water Pollution Control Act (Public Law 92-500 as amended): which requires "establishing procedures, methods, and equipment and other requirements for equipment to prevent discharges of oil and hazardous substances from vessels and from onshore facilities and offshore facilities, and to contain such discharges."

The regulations published in response to the Act specify the elements of the SPCC Plan and have been published in the Code of Federal Regulations (40 CFR, Ch.1, Subpart D, Part 112) and in the Federal Register Dec. 11, 1973, Vol. 38 No. 237, Part III "Oil Pollution Prevention: Nontransportation Related Onshore and Offshore Facilities."

### 5-1.2.0 Scope of Application

The above-referenced regulations state that the same apply if an onshore nontransportation related facility has oil containers holding more than 660 gallons in a single container or 1320 gallons or more in several above-ground containers, a SPCC Plan must then be prepared, implemented and kept on file (40 CFR 112.1 (d) (1-4)).

### 5-1.3.0 Definition of Oil Spill

A legally reportable "oil spill" is any spillage, leakage, discharge or disposal of oil, grease or

other such petroleum product that enters or is threatening to enter any waterway.

A "waterway" includes any river, stream, canal, lake, sewer, drain or pond. Further definition is given in 40 CFR, 112.2 (a). Environmental Industrial Services reporting procedures are described below in Section 5-5.5.0.

#### 5-2.0.0 Surface Storage Description

##### 5-2.1.0 General - Construction Site "Mobile Portable Storage"

There is a skid mounted 300 to 500 gallon diesel tank and multiple 55 and 5 gallon oil drums contained in a bermed area.

##### 5-2.2.0 Potential Sources of Diesel and Oil.

The shop, office area and construction sites are equipped with diesel and oil storage tanks.

##### 5-2.2.1 Central Storage (At shop)

(1) Diesel - 500 to 5,000 gallons above ground storage tank.

(2) 500 gallons engine oil (and/or 55 gallon drums).

##### 5-2.2.2 Maintenance Materials

(1) 55 gallons anti-freeze

(2) 55 gallons gear lube.

(3) 5 gallons grease and lube oils.

##### 5-2.2.3 Used Oil

Used oil is stored in 55 gallon drums and disposed of as needed via an approved carrier to an EPA approved reclaimer.

Volume varies month to month and never exceeds 550 gallons in storage for disposal. Used oil is sent back to main shop in 55 gallon drums.

#### 5-3.0.0 Prevention and Control of Oil Spills

Prevention measures are centered around proper design,

inspection and maintenance of oil-filled apparatus. The apparatus is inspected regularly for leaks. If leaks do occur, they are immediately mopped or cleaned up as part of regular operating procedure. Spent cleanup material, gravel, soil and other cleanup debris is disposed of in accordance with Section 5-4.2.0 below.

#### 5-3.1.0 Control At Office/Shop Area

Oil(s) will be controlled by concrete containments or within structures with concrete floors. All used oil-filled barrels are transported to E.I.S. shop for temporary storage and disposal.

#### 5-4.0.0 Countermeasures

The area described above is designed to contain oil leaks, should they occur, and thus mitigate the possibility of oil getting into a watercourse. In the case of small leaks which are confined to small areas, cleanup is part of the ordinary operating procedure. Countermeasures as outlined in Section 5.4.1.0 are to be taken immediately when there is any danger of oil entering any waterway and in case of any large oil leak.

#### 5-4.1.0 Direct Countermeasures

In the case of a spill, direct countermeasures include the necessary actions to terminate the source of flow of the oil. Make sure the spill is totally contained. Plug the leak, close the valve. Dig a trench or dike or do whatever else is necessary to stop the spill from leaving company property or entering a waterway. Get help if necessary. If the oil has already left company property, upon discovery, effort must be made to place appropriate oil-absorbent materials (sand, soil, straw bales or floor dry) in watercourses or take other actions necessary to minimize environmental damage as a result of the spill. After this is accomplished, the in-house reporting procedure described in Section 5.1.0 should be initiated immediately. Once the countermeasure and reporting functions have been accomplished, cleanup will begin in accordance with Section 5-4.2.0.

#### 5-4.2.0 Non-PCB Spill Cleanup Procedures

Direct operating responsibility for the work site rests with the Project Supervisor. He will be responsible for cleanup operations.

5-4.2.1 Who to contact for Cleanup

In most cases, the entire cleanup operation will be directed and performed by E.I.S. employees under the direction of the Project Supervisor. If the supervisor cannot be reached, call the site Superintendent of the Maintenance and/or Environmental Engineer, 472-3814 or 472-5771 as described in Section 5-5.1.1 below to initiate this notification sequence. If available operating personnel cannot contain the spill, call in outside contractors as described in Section 5-4.2.2.

5-4.2.2 List of Contractors

Should E.I.S. mining personnel be unable to perform the cleanup operation, and it is necessary for cleanup to begin immediately, one of the following outside contractors may be notified.

1. Nelco, Inc.  
Neil Frandsen  
P.O. Box 282  
Price, Utah 84501  
(801) 637-3495
2. Eph Henrie Construction  
Route 2, Box 17  
Price, Utah 84501  
(808) 637-0204
3. Nielson Construction Co.  
P.O. Box 620  
Huntington, Utah 84528  
(801) 687-2494
4. Siaperas Construction  
6135 E. North Coal Creek Rd.  
Wellington, Utah 84542  
(801) 637-5863

Other contractors with light earth-moving capability who are willing to do oil spill work may also be contacted and used. However, it is necessary to inform the contractor that the oil-contaminated material he is hauling must be deposited in a state-approved sanitary landfill. If the spill is massive, special cleanup effort such as those provided by the Coast Guard may be necessary. In this case, call the Environmental Engineer at (801) 472-3814 (Todd Welty). Do not call the Coast Guard yourself.

#### 5-4.2.3 Supply of Cleanup Materials

Sufficient quantities of sorbent material such as sand, straw bales and/or floor dry and other cleanup equipment are maintained at all sites to accomplish cleanup of oil spills should they occur.

#### 5-4.2.4 Cleanup Procedures

In conjunction with the countermeasures of Section 5-4.1.0 and the reporting of Section 5-5.1.2, cleanup must be started. If the spilled material has been determined to be a non-PCB fluid or otherwise nonhazardous material, the cleanup procedure is as follows:

1. Remove all oil-saturated earth and oil-coated rock and prior to hauling the oil-contaminated material to an approved sanitary landfill, listed in Section 5-4.2.6.
  - a. Aerate the diesel and gasoline soaked soils by spreading and turning the soil to remove hydrocarbons
  - b. Take a soil sample on all oil (motor, hydraulic, transmission etc.) contaminated soils and test for TCLP, B-TEX, and TPH's, then wait for analyses to return and final approval for Utah State Department of Environmental Health.

This would also include oil on the surface of waterways and stream banks.

2. Clean concrete and metal surfaces with rags and degreasing agents. Use gloves or whatever is necessary to keep the agents off your skin and dispose of the rags with the other oil spill material cleaned up.
3. Repair all facilities designed for oil containment purposes should they be damaged during the spill or cleanup operations.
4. Submit recommendations, if any, on preventative measures to prevent or control future oil spills.

#### 5-4.2.5 Disposal of Spent Cleanup Material

All spent cleanup material such as rags, sorbent,

oil, blankets, etc., must be disposed of in the same manner as contaminated rock and earth removed from the spill site - that is, taken to an approved sanitary landfill as listed in Section 5-4.2.6.

#### 5-4.2.6 Approved Solid Waste Landfills

When disposing of spent cleanup materials or oil-contaminated rock and earth at an approved landfill, an Environmental Engineer will notify the landfill operator in advance to make sure the landfill is still in operation and has "approved" status from the State Bureau of Solid and Hazardous Waste.

Current information on approved landfills will be supplied by:

Utah State Department of Environmental Health  
Dave Ariotti  
(801) 637-3671

At the present time, the approved landfills in Carbon and Emery Counties are:

1. East Carbon Hazardous Waste Site  
East Carbon, Utah  
Carbon County
2. Emery County Landfill near Orangeville, Utah  
Dave Ariotti  
Utah State Department of Environmental Health  
(801) 637-3671
3. Barney Landfill (Emery Recycling)  
Next to Emery County Landfill  
Near Orangeville, Utah  
Ronald Barney  
(801) 384-2779

If any numbers given above do not provide the necessary information, call Utah State Bureau of Solid and Hazardous Waste at (801) 538-6170

#### 5-5.0.0 Reporting

Reporting is very important and must be done carefully, accurately and timely.

##### 5-5.1.0 When to Report and When Not to Report

As defined above in Section 5-1.3.0, a legally

reportable "oil spill" is any spillage, leakage, discharge or disposal of oil, grease, or other such petroleum product that enters or is threatening to enter any river, stream, canal, sewer, drain, lake or pond.

At all work sites, any leakage or spillage of oil that is in danger of leaving the property must be reported immediately to the Superintendent of Maintenance, Environmental Engineer, Shift Foreman, or Safety Manager. After the above people are notified, the Environmental Coordinator at E.I.S. should be informed.

5-5.1.1 In-House Verbal Reporting

Any personnel discovering leakage or spillage at a site described in Section 5-5.1.0 above must notify their immediate supervisor, who will report it to the site Manager.

5-5.1.2 In-House Written Reporting

For any legally reportable spill, a complete written report must be submitted by the Environmental Engineer within five days of the original verbal report. The written report must address the same components described in Section 5-5.1.3 below and any additional issues deemed important by operating personnel.

5-5.1.3 The Environmental Engineer will execute all reporting to the agencies under direction of the Legal Department. Verbal notification to the agencies must be made within 24 hours of a legally reportable spill. In Utah, legally reportable oil spills are reported to:

1. U.S. Environmental Protection Agency  
Denver Place, Suite 1300  
999 18th Street  
Permits and Technical Support Branch  
(303) 293-1742
2. Utah Division of Health  
Bureau of Water Pollution Control  
288 North 1460 West  
P.O. Box 16690  
Salt Lake City, Utah 84116-0690  
(801) 538-6146

No one but a representative of E.I.S. Management is authorized to call the Coast Guard concerning spills.

The following information must be included in the verbal report:

1. The company name
2. The name of the person reporting, including title and phone number
3. The location of the spill, including type of terrain and nearest waters or drains and anticipated movement of spilled material
4. The time the spill was first observed
5. Existing weather conditions
6. The device or activity involved when the spill occurred
7. The cause of the spill
8. The material spilled
9. The estimated quantity of the spill
10. When and what action was taken for countermeasures, control and cleanup
11. The effectiveness of cleanup operations

5-6.0.0 Compliance Schedule

5-6.1.0 Spill Control Facilities

The collection system and sediment pond in the permit area will prevent any discharge of oil from leaving the permit area and entering any waterway.

5-6.1.1 Drainage - Where feasible, oil and/or diesel tanks are to be bermed with total containment of all fluids.

5-6.2.0 Schedule of Compliance Actions

The various work Sites' Surface Storage is inspected by Todd Welty or Mel Coonrod on a monthly basis to insure all necessary control facilities in place.

Section II - Verification and Authorization

To gain acceptance by the Utah Division of Health, Bureau of Water Pollution Control and EPA, this Spill Prevention Control and Countermeasures Plan must be signed by (1) a professional engineer, (2) a representative of company management, and (3) Environmental Engineer. The stamp of the professional engineer certifies that the elements of the Plan, including the Compliance Schedule, are in accordance with good engineering practice and that the Compliance Schedule does not suggest any changes which will be contrary to good engineering practice. The signature of management certifies that management has knowledge of the Plan and that the necessary financial arrangements will be made for its implementation. The Environmental Engineer's signature certifies that he has knowledge of the plan and has notified and briefed the necessary operations personnel of the procedures required to implement the Plan. It will be the responsibility of the owners or the Environmental Engineer to assure that the Compliance Schedule is completed expeditiously and in accordance with the rest of the Plan.

Section III - Signatures

Todd D. Dwyer  
Superintendent of Maintenance

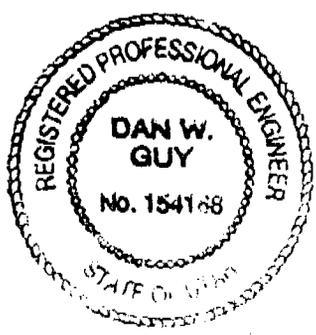
1-1-94  
Date

[Signature]  
President

1-1-94  
Date

Dan W. Guy  
Professional Engineer stamp

1-1-94  
Date





State of Utah  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WATER QUALITY

Michael O. Leavitt  
Governor  
Dianne R. Nielson, Ph.D.  
Executive Director  
Don A. Ostler, P.E.  
Director

288 North 1460 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870  
(801) 538-6146  
(801) 538-6016 Fax  
(801) 536-4414 T.D.D.

December 9, 1994

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Lonnie Mills  
Cyprus Plateau Mining  
P.O. Drawer PMC  
Price, Utah 84501

Re: Transfer of UPDES Permit UTG040012, Amax  
Coal Company

Dear Mr. Mills:

This is to acknowledge receipt of the Statement of Acceptance concerning the transfer of the Utah Pollutant Discharge Elimination System (UPDES) permit No. UTG040012 from Amax Coal West, Inc. to Amax Coal Company. Our files have been changed accordingly to reflect this transfer. All of the requirements and conditions of the permit are in full force and effect.

Enclosed is a copy of the permit showing this change. If you should have any questions concerning the permit or responsibilities thereunder, please contact Mike Herkimer at (801) 538-6058.

Sincerely,

Donald A. Hilden, Ph.D., Manager  
Permits and Compliance Section

KC/kc

Enclosure

cc: Judy Kobus-Fisk, U.S. EPA, Region VIII, w/enclosures  
Claron D. Bjork, Southeastern Utah District Health Dept. w/enclosures  
Dave Ariotti, District Engineer w/enclosures

Permit No. UTG040000  
Minor Industrial

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

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

GENERAL PERMIT FOR COAL MINING

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

Amax Coal Company, Castle Gate Mine located in and around the Helper, Utah area as identified in the Notice of Intent, application UTG040012 is authorized to discharge

to Sowbelly Gulch, Hardscrabble Canyon, Crandall Canyon and the Price River,

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

This permit became effective on September 1, 1993.

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

Signed this 9th day of December, 1994.

  
\_\_\_\_\_  
Authorized Permitting Official  
Executive Secretary  
Utah Water Quality Board

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I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Definitions.

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

reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

7. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
8. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
9. "Executive Secretary" means Executive Secretary of the Utah Water Quality Board.
10. "EPA" means the United States Environmental Protection Agency.
11. "Act" means the "*Utah Water Quality Act*".
12. "Best Management Practices" ("*BMPs*") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. *BMPs* also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
13. "CWA" means *Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.
14. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharges.
15. "Significant spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under *Section 311* of the *Clean Water Act* (see *40 CFR 110.10* and *40 CFR 117.21*) or *Section 102* of *CERCLA* (see *40 CFR 302.4*).
16. "Storm water" means storm water runoff, snow melt runoff, and surface runoff and drainage.
17. "Waste pile" means any noncontainerized accumulation of solid, nonflowing waste that is used for treatment or storage.
18. "10-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable reoccurrence interval of once in 10 years. This information is available in *Weather Bureau Technical Paper No. 40*, May 1961 and *NOAA Atlas 2*, 1973 for the 11 Western States.

and may be obtained from the National Climatic Center of the Environmental Data Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

19. The term "coal preparation plant" means a facility where coal is crushed, screened, sized, cleaned, dried, or otherwise prepared and loaded for transit to a consuming facility.
20. The term "coal preparation plant associated areas" means the coal preparation plant yards, immediate access roads, coal refuse piles, and coal storage piles and facilities.
21. "Alkaline mine drainage" means mine drainage which before any treatment has a pH equal to or greater than 6.0 and total iron concentration less than 10 mg/l.
22. The term "settleable solids" is that matter measured by the volumetric method specified below:

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

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

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

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

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

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

The NOI shall include:

- a. A completed Environmental Protection Agency Application (EPA Form 3510-1) or equivalent information.
- b. Location and identification number (such as 001, 002, etc.) of each existing discharge and/or proposed discharge point(s). This includes the latitude and longitude to the nearest 15 seconds and the name of the receiving water(s).

- c. A description of the source of the wastewater for each discharge point.
- d. A description of the treatment given or proposed for the wastewater at each discharge point and if necessary a justification of why no treatment is required.
- e. Flow characteristics for each discharge point such as whether flow is or will be continuous or intermittent and indicate projected and/or actual average and maximum flows in gpd.
- f. Data for each discharge point for the following parameters:
  - 1) Biochemical oxygen demand (BOD<sub>5</sub>)
  - 2) Chemical oxygen demand (COD)
  - 3) Total organic carbon (TOC)
  - 4) Total suspended solids (TSS)
  - 5) Flow
  - 6) Ammonia (as N)
  - 7) Oil and grease
  - 8) Temperature
  - 9) pH
  - 10) Total dissolved solids (TDS)
  - 11) Total iron and metals, cyanide, phenols located in Table III UAC R317-8-3.12
  - 12) Date and time of sampling for each parameter
  - 13) Date and time of analysis for each parameter
  - 14) Utah certified laboratory which has completed the analysis for each parameter

If no data is available, indicate why the data is not available.

The Executive Secretary may waive the reporting requirements for any of these pollutants and parameters if the applicant submits a request for such a waiver before or with the NOI which demonstrates that information adequate to support issuance of the permit can be obtained through less stringent reporting requirements.

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

Description of Discharge Point(s).

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

unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

<u>Outfall Number</u>	<u>Location of Discharge Point(s)</u>
009	Latitude 39°42'37" Longitude 110°53'43" Hardscrabble Canyon
011	Latitude 39°44'16" Longitude 110°52'21" Price River
012	Latitude 39°43'48" Longitude 110°51'54" Price River
013	Latitude 39°43'57" Longitude 110°52'08" Price River
014	Latitude 39°45'07" Longitude 110°54'40" Crandall Canyon
015	Latitude 39°45'01" Longitude 110°55'08" Crandall Canyon
016	Latitude 39°43'12" Longitude 110°55'29" Sowbelly Gulch
017	Latitude 39°43'04" Longitude 110°55'32" Sowbelly Gulch
020	Latitude 39°43'54" Longitude 110°52'08" Price River

E. Narrative Standard.

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

F. Specific Limitations and Self-monitoring Requirements.

- Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from the Outfalls listed in I.D above. Such discharges shall be limited and monitored by the permittee as specified below:

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

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

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

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

N.A. - Not Applicable.

- a/ See Definitions, *Part I.A* for definition of terms.
  - b/ For intermittent discharge, the duration of the discharge shall be reported along with the flow.
  - c/ Values up to 2 mg/l may be approved where the permittee provides sufficient information that water quality standards will not be violated.
  - d/ The total amount of total dissolved solids (TDS) discharged from all mine water and decant operations is limited to one ton (2000 pounds) per day.
  - e/ These samples may also be a composite sample.
2. Samples taken in compliance with the monitoring requirements specified above shall be taken from the effluent before mixing with any receiving water.
  3. Any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period less than or equal to the 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) at all surface runoff pond (outfalls) may comply with the following limitation instead of the total suspended solids limitations contained in Part I.F.1:

Effluent Characteristics

Daily Maximum

Settleable Solids

0.5 mL/L

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

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

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

5. The operator shall have the burden of proof that the discharge or increase in discharge was caused by the applicable precipitation event described in Parts I.F.3. and F.4. The alternate limitation in Parts I.F.4. and F.5. shall not apply to treatment systems that treat underground mine water only.
6. Best Management Practices.
  - a. The company shall implement and maintain best management practices for the control of road salt storage for areas discharging to waters of the State. This shall include enclosure or coverage to prevent exposure to precipitation, except exposure resulting from adding or removing materials from the pile. Dischargers shall demonstrate compliance with the enclosure provision as expeditiously as practicable, but in no event later than October 1, 1995.
  - b. The facility must minimize the discharge of salt by using the largest practicable amount of saline water for process and dust control. After April 30, 1994 there shall be no use of gypsum for rock dusting unless the permittee provides sufficient information to the Executive Secretary such that approval is granted based upon the Colorado River Basin Salinity Control Forum Policies and the fact that it will not significantly increase total dissolved solids concentrations.
  - c. Sediment and Erosion Control. Within six months of permit issuance, the permittee shall develop a stormwater pollution prevention plan which identifies areas which, due to topography, road construction with waste materials, other activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to limit erosion. (The general permit for storm water discharges associated with industrial activity contains information for developing a satisfactory plan).
  - d. Management of Runoff. The stormwater pollution prevention plan shall be implemented as soon as practical but no later than one year after permit issuance. Appropriate measures for small areas may include: silt fences, sediment traps, vegetative swales and practices, reuse of collected storm water (such as for a process or as an irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration devices, and wet detention/retention devices.
  - e. Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the stormwater pollution prevention plan, but in no case less than once a year. Such evaluations shall provide:
    - (1) Areas contributing to a storm water discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed.

- (2) Based on the results of the inspection, the description of potential pollutant sources identified in the plan and pollution prevention measures and controls identified in the plan shall be revised as appropriate within two weeks of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than twelve weeks after the inspection.
  - (3) A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken shall be made and retained as part of the storm water pollution prevention plan for at least one year after coverage under this permit terminates. The report shall identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with *Part IV.G Signatory Requirements* of this permit.
  - (4) Where annual site inspections are shown in the plan to be impractical for inactive mining sites due to the remote location and inaccessibility of the site, site inspections required under this part shall be conducted at appropriate intervals specified in the plan, but, in no case less than once in three years.
- f. Consistency with other plans. Plans may reflect requirements for *Spill Prevention Control and Countermeasure ("SPCC")* plans developed for the facility under *Section 311* of the *CWA* or *Best Management Practices ("BMP")* otherwise required by this permit for the facility as long as such requirement is incorporated into the plan.

II. MONITORING, RECORDING AND REPORTING REQUIREMENTS

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

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

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

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

submitted in the DMR. Such increased frequency shall also be indicated. Only those parameters required by the permit need to be reported.

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

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

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

I. Twenty-four Hour Notice of Noncompliance Reporting.

1. The permittee shall (orally) report any noncompliance which may seriously endanger health or environment as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of circumstances. The report shall be made to the Division of Water Quality, (801) 538-6146, or 24 hour answering service (801) 536-4123.
2. The following occurrences of noncompliance shall be reported by telephone (801) 536-4123 as soon as possible but no later than 24 hours from the time the permittee becomes aware of the circumstances:
  - a. Any noncompliance which may endanger health or the environment;
  - b. Any unanticipated bypass which exceeds any effluent limitation in the permit (See *Part III.G, Bypass of Treatment Facilities.*);
  - c. Any upset which exceeds any effluent limitation in the permit (See *Part III.H, Upset Conditions.*); or,
  - d. Violation of a maximum daily discharge limitation for any of the pollutants listed in the permit.

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

III. COMPLIANCE RESPONSIBILITIES

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

2. Notice:
  - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass.
  - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under *Part II.J, Twenty-four Hour Reporting*.
3. Prohibition of bypass.
  - a. Bypass is prohibited and the Executive Secretary may take enforcement action against a permittee for a bypass, unless:
    - (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage ;
    - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
    - (3) The permittee submitted notices as required under paragraph 2 of this section.
  - b. The Executive Secretary may approve an anticipated bypass, after considering its adverse effects, if the Executive Secretary determines that it will meet the three conditions listed above in paragraph 3.a of this section.

H. Upset Conditions.

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph 2. of this section are met. Executive Secretary's administrative determination regarding a claim of upset cannot be judiciously challenged by the permittee until such time as an action is initiated for noncompliance.
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
  - b. The permitted facility was at the time being properly operated;

- c. The permittee submitted notice of the upset as required under *Part II.I, Twenty-four Hour Notice of Noncompliance Reporting*; and,
  - d. The permittee complied with any remedial measures required under *Part III.D, Duty to Mitigate*.
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- I. Toxic Pollutants. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of *The Water Quality Act of 1987* for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- J. Changes in Discharge of Toxic Substances. Notification shall be provided to the Executive Secretary as soon as the permittee knows of, or has reason to believe:
- 1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - a. One hundred micrograms per liter (100 ug/L);
    - b. Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    - c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(7)* or (10); or,
    - d. The level established by the Executive Secretary in accordance with *UAC R317-8-4.2(6)*.
  - 2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - a. Five hundred micrograms per liter (500 ug/L);
    - b. One milligram per liter (1 mg/L) for antimony;
    - c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(9)*; or,
    - d. The level established by the Executive Secretary in accordance with *UAC R317-8-4.2(6)*.

K. Industrial Pretreatment. Any wastewaters discharged to the sanitary sewer, either as a direct discharge or as a hauled waste, are subject to Federal, State and local pretreatment regulations. Pursuant to Section 307 of *The Water Quality Act of 1987*, the permittee shall comply with all applicable federal General Pretreatment Regulations promulgated at *40 CFR 403*, the State Pretreatment Requirements at *UAC R317-8-8*, and any specific local discharge limitations developed by the Publicly Owned Treatment Works (POTW) accepting the wastewaters.

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

IV. GENERAL REQUIREMENTS

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

- a. The authorization is made in writing by a person described above and submitted to the Executive Secretary, and,
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
3. Changes to authorization. If an authorization under paragraph *IV.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph *IV.G.2* must be submitted to the Executive Secretary prior to or together with any reports, information, or applications to be signed by an authorized representative.
  4. Certification. Any person signing a document under this section shall make the following certification:

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

- H. Penalties for Falsification of Reports. The *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000.00 per violation, or by imprisonment for not more than six months per violation, or by both.
- I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Executive Secretary. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.
- J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the permittee of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the *Act*.

- K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- M. Transfers. This permit may be automatically transferred to a new permittee if:
1. The current permittee notifies the Executive Secretary at least 20 days in advance of the proposed transfer date;
  2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,
  3. The Executive Secretary does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.
- N. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by *UCA 19-5-117*.
- O. Water Quality-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:
1. Water Quality Standards for the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
  2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.
  3. A revision to the current Water Quality Management Plan is approved and adopted which calls for different effluent limitations than contained in this permit.
- P. Toxicity Limitation-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include whole effluent toxicity (WET) testing, a WET limitation, a compliance schedule, a compliance date, additional or modified numerical limitations, or any other conditions related to the control of toxicants if toxicity is detected during the life of this permit.

- Q. Storm Water-Reopener Provision. At any time during the duration (life) of this permit, this permit may be reopened and modified (following proper administrative procedures) as per *UAC R317.8*, to include, any applicable storm water provisions and requirements, a storm water pollution prevention plan, a compliance schedule, a compliance date, monitoring and/or reporting requirements, or any other conditions related to the control of storm water discharges to "waters-of-State".

P:CASTLEGT.PER

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S

# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

April 1, 1994

Donald A. Hilden, PhD.  
Utah Department of Health  
Bureau of Water Pollution Control  
288 North 1460 West, P.O. Box 16690  
Salt Lake City, Utah 84116-0690

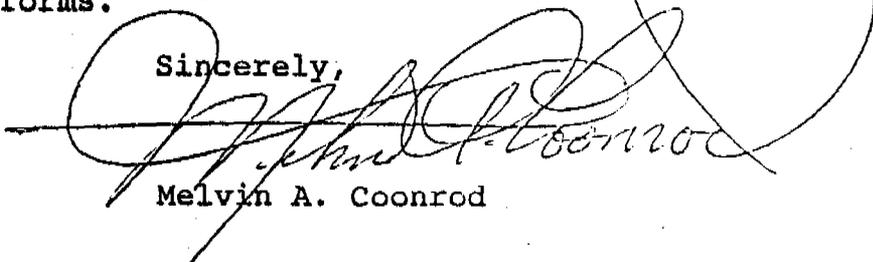
Re: 1st Quarter, 1994 UNPDES  
Report  
Cyprus Amax Minerals

Dear Dr. Hilden:

Castle Gate Coal Company, Permit # UTG040012 Discharge #'s:  
005A, 009A, 011A, 012A, 013A, 014A, 015A, and 020A had NO discharge  
during the first quarter of 1994.

This letter is in lieu of the computer printed forms, as we have  
still not received the new forms.

Sincerely,



Melvin A. Coonrod

cc: Tom Hurst, Cyprus Amax Minerals  
Lowell Braxton, UDOGM  
File



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 - Telephone (801) 472-3814 - FAX (801) 472-8780

February 1, 1994

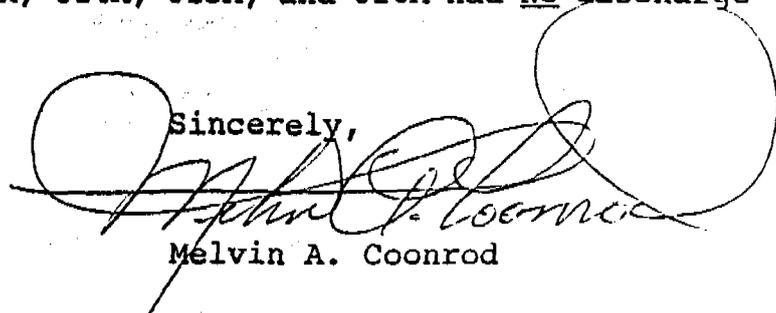
Donald A. Hilden, PhD.  
Utah Department of Health  
Bureau of Water Pollution Control  
288 North 1460 West, P.O. Box 16690  
Salt Lake City, Utah 84116-0690

Re: January 1994 UNPDES Report  
Cyprus Amax Minerals

Dear Dr. Hilden:

Castle Gate Coal Company, Permit # UTG040012 Discharge #'s:  
005A, 009A, 011A, 012A, 013A, 014A, 015A, and 020A had NO discharge  
during January, 1994.

Sincerely,



Melvin A. Coonrod

cc: Tom Hurst, Cyprus Amax Minerals  
Lowell Eraxton, UDOGM  
File

PERMITTEE NAME *S (Include Facility Name/Location)*

NAME CYPRUS AMAX MINERALS  
 ADDRESS P.O. DRAWER PMC  
PRICE, UT 84501

FACILITY CASTLE GATE COAL COMPANY  
 LOCATION HELPER, UTAH

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

PERMIT NUMBER \_\_\_\_\_ DISCHARGE NUMBER \_\_\_\_\_

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
94	01	01		94	01	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

Approved  
 OMB No. 2040-0004  
 Approval expires 6-30-88

NO DISCHARGE

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 PERMIT #UTG040012 DISCHARGE #'s: 005A, 009A, 011A, 012A, 013A, 014A, 015A, and 020A								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Tom Hurst  
 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.)

*Tom Hurst*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 801 637-2875  
 DATE: \_\_\_\_\_  
 AREA CODE: 801 NUMBER: 637-2875 YEAR: \_\_\_\_\_ MO: \_\_\_\_\_ DAY: \_\_\_\_\_

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



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

March 1, 1994

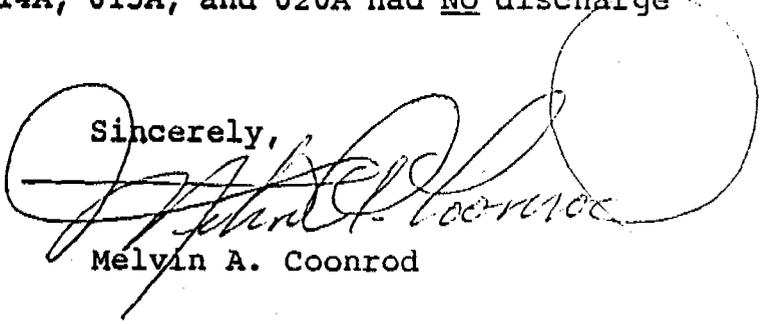
Donald A. Hilden, PhD.  
Utah Department of Health  
Bureau of Water Pollution Control  
288 North 1460 West, P.O. Box 16690  
Salt Lake City, Utah 84116-0690

Re: February 1994 UNPDES Report  
Cyprus Amax Minerals

Dear Dr. Hilden:

Castle Gate Coal Company, Permit # UTG040012 Discharge #'s:  
005A, 009A, 011A, 012A, 013A, 014A, 015A, and 020A had NO discharge  
during February, 1994.

Sincerely,



Melvin A. Coonrod

cc: Tom Hurst, Cyprus Amax Minerals  
Lowell Braxton, UDOGM  
File





# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 - Telephone (801) 472-3814 - FAX (801) 472-8780

April 1, 1994

Donald A. Hilden, PhD.  
Utah Department of Health  
Bureau of Water Pollution Control  
288 North 1460 West, P.O. Box 16690  
Salt Lake City, Utah 84116-0690

Re: March, 1994 UNPDES Report  
Cyprus Amax Minerals

Dear Dr. Hilden:

Castle Gate Coal Company, Permit # UTG040012 Discharge #'s:  
005A, 009A, 011A, 012A, 013A, 014A, 015A, and 020A had NO discharge  
during March, 1994.

Sincerely,

Melvin A. Coonrod

cc: Tom Hurst, Cyprus Amax Minerals  
Lowell Braxton, UDOGM  
File

NAME CYPRUS AMAX MINERALS  
ADDRESS P.O. DRAWER PMC  
PRICE, UTAH 84501  
CITY CASLE GATE COAL COMPANY  
LOCATION HELPER, UTAH

UTG040012	
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
FROM	TO
YEAR MO DAY	YEAR MO DAY
94 03 01	94 03 31
(20-21) (22-23) (24-25)	(26-27) (28-29) (30-31)

NO DISCHARGE

NOTE: Read instructions before completing this form.

PARAMETER (12-17)	X	QUANTITY OR LOADING (14-51)			QUALITY OR CONCENTRATION (14-51)			NO. EX (62-53)	FREQUENCY OF ANALYSIS (64-58)	SAMPLE TYPE (59-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SAMPLE MEASUREMENT		NO DISCHARGE PERMIT #UTG040012 DISCHARGE #'s: 005A, 009A, 011A, 014A, 015A and 020A.								
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  Tom Hurst Permitting & Compliance	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 16 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 3 years.)	TELEPHONE		DATE		
		801	637-2875	94	04	01
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Tom Hurst</i>	AREA CODE	NUMBER	YEAR	MO	DAY

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



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

July 22, 1994

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

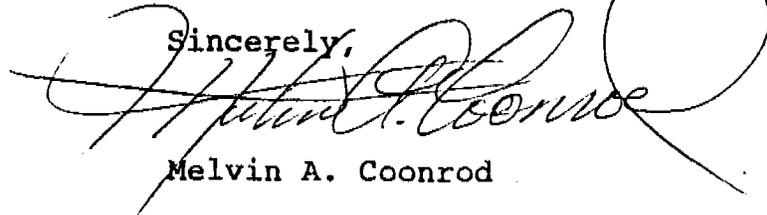
Re: 2nd Quarter, 1994 UNPDES Report  
Water Data, for Castle Gate Coal  
Company

Dear Mr. Braxton:

Please find enclosed UNPDES reports for April, May and June, 2nd Quarter 1994, indicating "No Discharge" for Castle Gate Coal Company, as well as water data for the 2nd quarter of 1994.

If you have any questions, please feel free to call me.

Sincerely,



Melvin A. Coonrod



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

July 22, 1994

EPA  
Denver Place 9999 18th St. Suite 500  
Denver, CO 80202-2405

Re: 2nd Quarter UNPDES Report  
Castle Gate Coal Company

Dear Sir or Madame:

Please find enclosed UNPDES reports for April, May and June 1994, 2nd Quarter, indicating "No Discharge" for Castle Gate Coal Company.

If you have any questions, please feel free to call me.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Melvin A. Coonrod', is written over the typed name.

Melvin A. Coonrod



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

---

July 22, 1994

Utah Department of Health  
Bureau of Water Pollution Control  
288 North 1460 West, P.O. Box 16690  
Salt Lake City, Utah 84116-0690

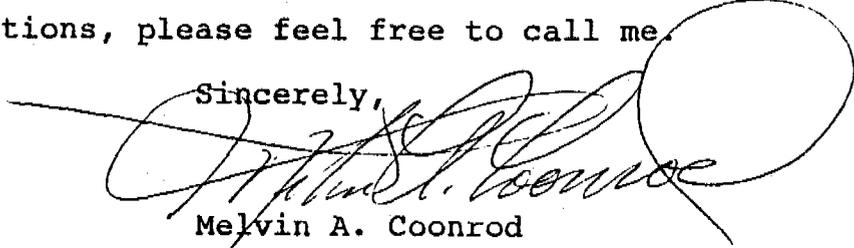
Re: 2nd Quarter UNPDES Report  
Castle Gate Coal Company

Dear Dr. Hilden:

Please find enclosed UNPDES reports for April, May and June 1994, 2nd Quarter, indicating "No Discharge" for Castle Gate Coal Company.

If you have any questions, please feel free to call me.

Sincerely,



Melvin A. Coonrod

PERMITTEE NAME/Facility Name/Location (Include parent)

NAME AMAX COAL COMPANY  
 ADDRESS P.O. DRAWER PHC  
PRICE, UT 84501

FACILITY CASTLE GATE COAL COMPANY  
 LOCATION HELPER, UTAH 84526

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

UT0040012  
 PERMIT NUMBER

\*  
 DISCHARGE NUMBER

Approved  
 No. 2040-0004  
 Approval expires 6-30-88

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	06	01		94	06	30
	(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 (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SAMPLE MEASUREMENT		*NO DISCHARGE POINTS: 005A, 009A, 011A, 012A, 013A, 014A, 015A and 020A.									
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
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PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											
SAMPLE MEASUREMENT											
PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
Lonnie Mills  
Sr. Environmental Engineer  
 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.)

*Lonnie Mills*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
 301 | 637-2875  
 AREA CODE NUMBER

DATE  
 74 | 7 | 22  
 YEAR MO DAY

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

PERMITTEE NAME/ Facility Name/Location (Include Permit)

NAME A. X. COAL COMPANY  
 ADDRESS P.O. DRAWER PMC  
PRICE, UT 84504

FACILITY CASTLE GATE COAL COMPANY  
 LOCATION HELPER, UT 84526

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

UTG040012  
 PERMIT NUMBER

\*  
 DISCHARGE NUMBER

Approved No. 2040-0004  
 Approval expires 6-30-88

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
94	05	01	94	05	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 (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
		*NO DISCHARGE POINTS			005A,	009A,	011A,	012A,	013A,	014A	015A,	and	020A.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
Lonnie Mills  
Sr. Environmental Engineer  
 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 3 years.)

Lonnie Mills  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 801 637-2875  
 DATE 94 7 22  
 AREA CODE NUMBER YEAR MO DAY

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

PERMITTEE NAME **COAL COMPANY**  
Facility Name/Location (if different)

NAME **AX COAL COMPANY**  
 ADDRESS **P.O. DRAWER #16**  
**PRICE, UT 84501**

FACILITY **CASTLE GATE COAL COMPANY**  
 LOCATION **HELPER, UT 84526**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)  
 (2-1) (17-19)

UT 940012  
 PERMIT NUMBER

\*  
 DISCHARGE NUMBER

Approved  
 No. 2040-0004  
 Approval expires 6-30-88

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
94	06	01	TO	94	05	30
(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 (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
		*NO DISCHARGE POINTS: 005A, 009A, 011A, 012A, 013A, 014A, 015A and 020A								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
**Lonnie Mills**  
 Sr. Environmental Engineer  
 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.)

*Lonnie Mills*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
**801 637-2875**  
 AREA CODE NUMBER

DATE  
**94 7 22**  
 YEAR MO DAY

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



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

---

October 25, 1994

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

Re: Third Quarter 1994 Water Data  
Castle Gate Coal Company

Dear Mr. Braxton:

Please find enclosed Third Quarter 1994 Water data and UNPDES reports, indicating "No Discharge" for Castle Gate Coal Company.

If you have any questions, please feel free to call me at 801 472-3814.

Sincerely,

Melvin A. Coonrod

MAC/njc

cc: Plateau Mining Co.  
File



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

October 25, 1994

EPA  
Denver Place 9999 18th St. Suite 500  
Denver, CO 80202-2405

Re: 3rd Quarter UNPDES Report  
Castle Gate Coal Company

To Whom It May Concern:

Please find enclosed UNPDES report for July, August, and September, 1994, 3rd Quarter, indicating "No Discharge" for Castle Gate Coal Company.

If you have any questions, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Melvin A. Coonrod', is written over a large, stylized circular flourish.

Melvin A. Coonrod



# ENVIRONMENTAL INDUSTRIAL SERVICES

4855 N. Spring Glen Rd., Helper, UT 84526 · Telephone (801) 472-3814 · FAX (801) 472-8780

October 25, 1994

Utah Department of Health  
Bureau of Water Pollution Control  
288 North 1460 West, P.O. Box 16690  
Salt Lake City, Utah 84116-0690

Re: 3rd Quarter UNPDES Report  
Castle Gate Coal Company

Dear Dr. Hilden:

Please find enclosed UNPDES report for July, August, and September, 1994, 3rd Quarter, indicating "No Discharge" for Castle Gate Coal Company.

If you have any questions, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Melvin A. Coonrod'. The signature is fluid and cursive, with a large loop at the end.

Melvin A. Coonrod

PERMITTEE NAME AMAX COAL COMPANY  
Facility Name/Location (if different)

ADDRESS P.O. DRAWER PMC  
PRICE, UT 84501

FACILITY CASTLE GATE COAL COMPANY  
 LOCATION \_\_\_\_\_

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

**UTG040012**  
 PERMIT NUMBER

**\***  
 DISCHARGE NUMBER

1 Approved  
 B No. 2040-0004  
 Approval expires 6-30-88

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
94	7	01		94	9	30
<small>(20-21)</small>	<small>(22-23)</small>	<small>(24-25)</small>		<small>(26-27)</small>	<small>(28-29)</small>	<small>(30-31)</small>

NOTE: Read instructions before completing this form.

PARAMETER <small>(32-37)</small>	X	<small>(3 Card Only)</small> QUANTITY OR LOADING <small>(46-53)</small>			<small>(4 Card Only)</small> QUALITY OR CONCENTRATION <small>(38-45)</small>			NO. EX <small>(62-63)</small>	FREQUENCY OF ANALYSIS <small>(64-68)</small>	SAMPLE TYPE <small>(69-70)</small>	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
		NO DISCHARGE POINTS: 005A, 009A, 011A, 012A, 013A, 014A, 015A and 020A.									
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	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		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.)					TELEPHONE		DATE		
Lonnie Mills Sr. Environmental Engineer <small>TYPED OR PRINTED</small>							 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		801	637-2875	94
				AREA CODE	NUMBER	YEAR	MO	DAY			

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

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME AMAX COAL COMPANY

ADDRESS P.O. DRAWER PMC

PRICE, UTAH 84501

FACILITY CASTLE GATE COAL COMPANY Mine

LOCATION \_\_\_\_\_

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

(2-16)

(17-19)

UTG040012

PERMIT NUMBER

\*

DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	10	01		94	12	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 (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SAMPLE MEASUREMENT *		NO DISCHARGE POINTS: 005A,			009A, 011A, 012A, 013A, 014A and					020A
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  
  
Lonnie Mills  
Sr. Environmental Engineer  
  
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.)

*Lonnie Mills*  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
801	637-2875	95	01	10
AREA CODE	NUMBER	YEAR	MO	DAY

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

**EIS**

**ENVIRONMENTAL INDUSTRIAL SERVICES**

4855 N. Spring Glen Rd., Spring Glen, UT 84526 - Telephone (801) 472-3814 - FAX (801) 472-8780

---

January 17, 1995

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

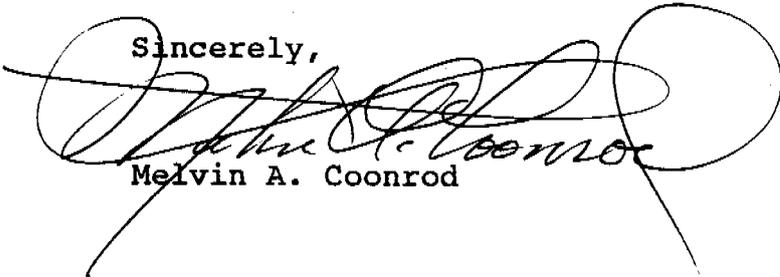
Re: fourth Quarter 1994 Water Data  
Castle Gate Coal Company

Dear Mr. Braxton:

Please find enclosed Fourth Quarter 1994 Water data and UNPDES reports, indicating "No Discharge" for Castle Gate Coal Company.

If you have any questions, please feel free to call me at 801 472-3814.

Sincerely,



Melvin A. Coonrod

MAC/njc

cc: Plateau Mining Co.  
File

PERMITTEE NAME AMAX COAL COMPANY

ADDRESS P.O. DRAWER PMC  
PRICE, UTAH 84501

FACILITY CASTLE GATE COAL COMPANY Mine  
LOCATION \_\_\_\_\_

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

UTG040012  
PERMIT NUMBER

\*  
DISCHARGE NUMBER

Approved  
Card No. 2040-0004  
Approval expires 6-30-88

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
94	10	01		94	12	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 (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SAMPLE MEASUREMENT *		NO DISCHARGE POINTS: 005A,			009A, 011A,	012A, 013A,	014A and 020A			
PERMIT REQUIREMENT										
SAMPLE MEASUREMENT										
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	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.)				 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE	
Lonnie Mills Sr. Environmental Engineer TYPED OR PRINTED							801	637-2875	95	01
		AREA CODE	NUMBER	YEAR	MO	DAY				

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

E.I.S. Hydrology  
Field Measurements Form

Date 11/29/94 Station # B-5

Company Amox-Plains

Time 9:10

Flow/Depth 7 10 CES [ice bond]

pH 7.8

Specific Conductivity 640

Water Temperature 0°

Air Temperature 31

Dissolved Oxygen 7

Type: Spring  Stream  Well  Discharge  NPDES

Collection Point Lower River

Appearance of Water: Clear  Milky  Cloudy  Opaque

Quality Sample Taken: Yes  No

Pump Reading \_\_\_\_\_

Comments \_\_\_\_\_

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: \_\_\_\_\_

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

ACZ Laboratories, Inc.  
 30400 Downhill Drive  
 Steamboat Springs, CO 80487  
 (800) 334-5493

Lab Sample ID: L3997-01  
 Client Sample ID: B-5  
 Client Project ID: AMAX/CYPRUS  
 ACZ Report ID: RG2596

Cyprus Plateau Mining Corp.  
 P.O. Drawer PMC  
 Price, UT 84501  
 Attn: Ben Grimes

Date Sampled: 11/29/94  
 Date Received: 12/2/94  
 Date Reported: 1/1/95

Sample Matrix: Surface Water

### Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	57		mg/L	0.2	1	12/9/94	dc
Iron, total	M200.7 ICP	0.13		mg/L	0.01	0.05	12/20/94	ms
Magnesium, dissolved	M200.7 ICP	28		mg/L	0.2	0.5	12/9/94	dc
Manganese, total	M200.7 ICP	0.006	B	mg/L	0.005	0.01	12/15/94	ms
Potassium, dissolved	M200.7 ICP	1.7		mg/L	0.3	1	12/9/94	dc
Sodium, dissolved	M200.7 ICP	25		mg/L	0.3	1	12/9/94	dc

### Metals Prep

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Total Digestion	M3015 ICP						12/5/94	jaw

### Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acidity as CaCO3	M305.1		U	mg/L	2	10	12/5/94	kh
Alkalinity as CaCO3	M310.1							
Bicarbonate as CaCO3		230		mg/L	2	10	12/5/94	kh
Carbonate as CaCO3			U	mg/L	2	10	12/5/94	kh
Hydroxide as CaCO3			U	mg/L	2	10	12/5/94	kh
Total Alkalinity		230		mg/L	2	10	12/5/94	kh
Cation-Anion Balance	Calculation	3.44		%			1/1/95	fp
Chloride	M325.2 - Colorimetric (RFA)	15		mg/L	1	5	12/5/94	hm
Hardness as CaCO3	Calculation based on dissolved Mg & Ca	258		mg/L	1	5	1/1/95	fp
Lab Filtration	***						12/5/94	das
Lab Filtration & Acidification	***						12/5/94	das
Oil & Grease, Total Recoverable	M413.1 - Gravimetric		U	mg/L	2	10	12/8/94	das
pH (lab)	M150.1 - Electrometric	7.8		units	0.1	0.1	12/8/94	das
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	310		mg/L	10	20	12/5/94	das
Residue, Non-Filterable (TSS) @103-5C	M160.2 - Gravimetric		U	mg/L	5	20	12/5/94	das
Residue, Settleable Matter (SS)	M160.5 - Volumetric		U	mL/L/h	0.1	0.5	12/5/94	kh
Sulfate	M375.3 - Gravimetric	40		mg/L	10	20	12/6/94	kh

### Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected

B = Analyte concentration detected at a value between MDL and PQL

PQL = Practical Quantitation Limit

*S. Habermehl*

Reviewer: Scott Habermehl

*F. Polniak*

Inorganic Supr: Frank Polniak

WATER MONITORING REPORT

Property: Castle Gate  
 Station: B-5  
 Location: Lower Price River  
 Type: River  
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/29/94	
Flow (cfs)	>10	>10	>10	>10	>10
PH	7.61	7.67	7.74	7.80	7.71
Sp. Cond. [ohms]	1,069.00	460.00	473.00	640.00	660.50
Temp. [C]	4.00	14.00	13.00	0.00	7.75
Diss. O [ppm]	7.80	7.80	8.10	7.00	7.68

Lab. Meas. [mg/l]					
TDS	367.00	241.00	194.00	310.00	278.00
TSS	43.00	2.00	4.00	<0.5	16.33
O & G	<0.30	ND	<1	ND	<0.03
Al CaCO3	254.00	193.00	132.00	230.00	202.25
Hd CaCO3	276.00	199.00	155.00	258.00	222.00
HCO3	310.00	235.00	132.00	230.00	226.75
CO3	0.00	0.00	0.00	0.00	0.00
Cl	22.00	9.30	9.00	15.00	13.83
SO4	71.00	35.00	43.00	40.00	47.25
Ca	40.00	52.00	34.00	57.00	45.75
Mg	40.00	17.00	17.00	28.00	25.50
K	1.60	1.50	1.00	1.70	1.45
Na	34.00	11.00	12.00	25.00	20.50
Cat/An	1.06	3.73	<2.01	3.44	2.74
Fe	0.68	0.55	0.17	0.13	0.38
Mn	0.02	0.04	0.01	0.01	0.02

E.I.S. Hydrology  
Field Measurements Form

Date 8-12-11/59/95 Station # B-6

Company Amor Plakau

Time 10:20

Flow/Depth 7 100FS Fixed over

pH 8.1

Specific Conductivity 710

Water Temperature D

Air Temperature 31

Dissolved Oxygen 7

Type: Spring  Stream  Well  Discharge  NPDES

Collection Point Pine River - (upper)

Appearance of Water: Clear  Milky  Cloudy  Opaque

Quality Sample Taken: Yes  No

Pump Reading \_\_\_\_\_

Comments \_\_\_\_\_

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: \_\_\_\_\_

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

ACZ Laboratories, Inc.  
 30400 Downhill Drive  
 Steamboat Springs, CO 80487  
 (800) 334-5493

Lab Sample ID: **L3997-02**  
 Client Sample ID: **B-6**  
 Client Project ID: **AMAX CYPRUS**  
 ACZ Report ID: **RG2397**

Cyprus Plateau Mining Corp.  
 P.O. Drawer PMC  
 Price, UT 84501  
 Attn: Ben Grimes

Date Sampled: **11/29/94**  
 Date Received: **12/2/94**  
 Date Reported: **1/1/95**

Sample Matrix: **Surface Water**

### Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	56		mg/L	0.2	1	12/9/94	dc
Iron, total	M200.7 ICP	0.13		mg/L	0.01	0.05	12/20/94	ms
Magnesium, dissolved	M200.7 ICP	27		mg/L	0.2	0.5	12/9/94	dc
Manganese, total	M200.7 ICP	0.006	B	mg/L	0.005	0.01	12/15/94	ms
Potassium, dissolved	M200.7 ICP	1.5		mg/L	0.3	1	12/9/94	dc
Sodium, dissolved	M200.7 ICP	24		mg/L	0.3	1	12/9/94	dc

### Metals Prep

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Total Digestion	M3015 ICP						12/5/94	jaw

### Wet Chemistry

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Acidity as CaCO3	M305.1		U	mg/L	2	10	12/5/94	kh
Alkalinity as CaCO3	M310.1							
Bicarbonate as CaCO3		230		mg/L	2	10	12/5/94	kh
Carbonate as CaCO3			U	mg/L	2	10	12/5/94	kh
Hydroxide as CaCO3			U	mg/L	2	10	12/5/94	kh
Total Alkalinity		230		mg/L	2	10	12/5/94	kh
Cation-Anion Balance	Calculation	2.23		%			1/1/95	fp
Chloride	M325.2 - Colorimetric (RFA)	14		mg/L	1	5	12/5/94	hm
Hardness as CaCO3	Calculation based on dissolved Mg & Ca	251		mg/L	1	5	1/1/95	fp
Lab Filtration	***						12/5/94	das
Lab Filtration & Acidification	***						12/5/94	das
Oil & Grease, Total Recoverable	M413.1 - Gravimetric	2	B	mg/L	2	10	12/8/94	das
pH (lab)	M150.1 - Electrometric	8		units	0.1	0.1	12/8/94	das
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	300		mg/L	10	20	12/5/94	das
Residue, Non-Filterable (TSS) @103-5C	M160.2 - Gravimetric		U	mg/L	5	20	12/5/94	das
Residue, Settleable Matter (SS)	M160.5 - Volumetric		U	mL/L.h	0.1	0.5	12/5/94	kh
Sulfate	M375.3 - Gravimetric	40		mg/L	10	20	12/6/94	kh

### Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected  
 B = Analyte concentration detected at a value between MDL and PQL  
 PQL = Practical Quantitation Limit

*S. Habermehl*

Reviewer: Scott Habermehl

*F. Polniak*

Inorganic Supr: Frank Polniak

WATER MONITORING REPORT

Property: Castle Gate  
 Station: B-6  
 Location: Upper Price River  
 Type: River  
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/29/94	
Flow (cfs)	>10	>10	>10	>10	>10
PH	7.52	7.69	7.80	8.10	7.78
Sp. Cond. [ohms]	1,780.00	470.00	403.00	710.00	840.75
Temp. [C]	2.00	14.00	13.00	0.00	7.25
Diss. O [ppm]	7.60	8.00	8.20	7.00	7.70

Lab. Meas. [mg/L]

TDS	361.00	221.00	194.00	300.00	269.00
TSS	64.00	12.00	32.00	ND	36.00
O & G	<0.03	ND	<1	2.00	<0.03
Alk CaCO3	244.00	170.00	132.00	230.00	194.00
Hd CaCO3	277.00	199.00	152.00	251.00	219.75
HCO3	298.00	208.00	132.00	230.00	217.00
CO3	0.00	0.00	0.00	0.00	0.00
Cl	21.00	8.20	9.00	14.00	13.05
SO4	72.00	30.00	43.00	40.00	46.25
Ca	46.00	52.00	33.00	56.00	46.75
Mg	40.00	17.00	17.00	27.00	25.25
K	1.60	1.40	1.00	1.50	1.38
Na	34.00	10.00	11.00	24.00	19.75
Cat/An	0.46	2.27	<3.40	2.23	1.65
Fe	1.26	0.54	0.24	0.13	0.54
Mn	0.03	0.04	0.02	0.01	0.02

E.I.S. Hydrology  
Field Measurements Form

Date 11/25/94

Station # B-11

Company Emax

Time 11:10

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_\_\_ Stream \_\_\_\_\_ Well \_\_\_\_\_ Discharge \_\_\_\_\_ NPDES \_\_\_\_\_

Collection Point below Pond 9

Appearance of Water: Clear \_\_\_\_\_ Milky \_\_\_\_\_ Cloudy \_\_\_\_\_ Opaque \_\_\_\_\_

Quality Sample Taken: Yes \_\_\_\_\_ No

Pump Reading \_\_\_\_\_

Comments \_\_\_\_\_

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: D

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

WATER MONITORING REPORT

Property: Castle Gate Coal  
 Station: B-11  
 Location: Lower Hardscrabble  
 Type: Int. Stream  
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
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 1/28/94 Station # B-12

Company Conus

Time 11:20

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_ Stream  Well \_\_\_ Discharge \_\_\_ NPDES \_\_\_

Collection Point Clear Prop. Undergravel

Appearance of Water: Clear \_\_\_ Milky \_\_\_ Cloudy \_\_\_ Opaque \_\_\_

Quality Sample Taken: Yes \_\_\_ No \_\_\_

Pump Reading \_\_\_\_\_

Comments 8" Snow depth -

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: \_\_\_\_\_

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

WATER MONITORING REPORT

Property: Castle Gate Coal  
Station: B-12  
Location: Upper Hardscrabble  
Type: Int. Stream  
Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
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 10/29/94

Station # B-17

Company Amox

Time 11:40

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_ Stream  Well \_\_\_ Discharge \_\_\_ NPDES \_\_\_

Collection Point junction of # 5 road

Appearance of Water: Clear \_\_\_ Milky \_\_\_ Cloudy \_\_\_ Opaque \_\_\_

Quality Sample Taken: Yes \_\_\_ No

Pump Reading \_\_\_\_\_

Comments \_\_\_\_\_

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: D

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

WATER MONITORING REPORT

Property: Castle Gate  
 Station: B-17  
 Location: No. 5 Mine Rd. Junction  
 Type: Int. Stream  
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
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 11/22/94

Station # B-88

Company Amex

Time 10:10

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_\_\_ Stream  Well \_\_\_\_\_ Discharge \_\_\_\_\_ NPDES \_\_\_\_\_

Collection Point Below Property @ Culvert Crossing

Appearance of Water: Clear \_\_\_\_\_ Milky  Cloudy \_\_\_\_\_ Opaque

Quality Sample Taken: Yes \_\_\_\_\_ No \_\_\_\_\_

Pump Reading \_\_\_\_\_

Comments Flow Picked - (1/2") No tx - in Drainage

Field Monitor J.H. Brown

When Sample or Measurements Not Taken:

Reason: D

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

WATER MONITORING REPORT

Property: Castle Gate  
Station: B-22  
Location: Crandall - Culvert  
Type: Int. Stream  
Frequency: Quarterly

Field Measurements	Date Sampled				MEAN
	03/24/94	06/14/94	09/07/94	11/28/94	
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
HCO3
CO3
Cl
SO4
Ca
Mg
K
Na
Cat/An
Fe
Mn

E.I.S. Hydrology  
Field Measurements Form

Date 11/30/94

Station # B-25

Company Ammax

Time 10:25

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_ Stream  Well \_\_\_ Discharge \_\_\_ NPDES \_\_\_

Collection Point Along Property

Appearance of Water: Clear \_\_\_ Milky \_\_\_ Cloudy \_\_\_ Opaque \_\_\_

Quality Sample Taken: Yes \_\_\_ No \_\_\_

Pump Reading \_\_\_\_\_

Comments \_\_\_\_\_

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: D

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

WATER MONITORING REPORT

Property: Castle Gate  
 Station: B-25  
 Location: Crandall Creek Above Mine  
 Type: Int. Stream  
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
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
HCO3
CO3
Cl
SO4
Ca
Mg
K
Na
Cat/An
Fe
Mn

E.I.S. Hydrology  
Field Measurements Form

Date 1/28/94

Station # B-26

Company Amur

Time 10:15

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring  Stream \_\_\_\_\_ Well \_\_\_\_\_ Discharge \_\_\_\_\_ NPDES \_\_\_\_\_

Collection Point Next to Gas Pit

Appearance of Water: Clear \_\_\_\_\_ Milky \_\_\_\_\_ Cloudy \_\_\_\_\_ Opaque \_\_\_\_\_

Quality Sample Taken: Yes \_\_\_\_\_ No \_\_\_\_\_

Pump Reading \_\_\_\_\_

Comments Channel (Dry) 14" Snow Level  
No Flow

Field Monitor J.M. [Signature]

When Sample or Measurements Not Taken:

Reason: D

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

WATER MONITORING REPORT

Property: Castle Gate  
 Station: B-26  
 Location: Spring Adj. Topsoil Pile  
 Type: Spring  
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
Flow [gpm]	2.00	DRY	DRY	DRY	2.00
PH	6.11				6.11
Sp. Cond. [ohms]	2,380.00				2,380.00
Temp. [C]	0.00				0.00

Lab. Meas. [mg/l]					
TDS		1,080.00			1,080.00
TSS		54.00			54.00
Al	CaCO3	480.00			480.00
Hd	CaCO3	931.00			931.00
HCO3		586.00			586.00
CO3		0.00			0.00
Cl		24.00			24.00
SO4		448.00			448.00
Ca		140.00			140.00
Mg		142.00			142.00
K		6.20			6.20
Na		26.00			26.00
Cat/An		0.79			0.79
Fe		2.78			2.78
Mn		0.20			<0.02

E.I.S. Hydrology  
Field Measurements Form

Date 10/25/94

Station # B-28

Company Qmax

Time 8:40

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_\_\_ Stream \_\_\_\_\_ Well \_\_\_\_\_ Discharge \_\_\_\_\_ NPDES \_\_\_\_\_

Collection Point Flow Pipe

Appearance of Water: Clear \_\_\_\_\_ Milky X Cloudy \_\_\_\_\_ Opaque \_\_\_\_\_

Quality Sample Taken: Yes \_\_\_\_\_ No X

Pump Reading \_\_\_\_\_

Comments \_\_\_\_\_

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: D

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

WATER MONITORING REPORT

Property: Castle Gate  
Station: B-28  
Location: Above Property  
Type: Int. Stream  
Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
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 N/A = NOT ACCESSABLE

E.I.S. Hydrology  
Field Measurements Form

Date 10/28/94

Station # BV-30

Company Amex

Time 11:15

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_ Stream  Well \_\_\_ Discharge \_\_\_ NPDES \_\_\_

Collection Point Top bar to Pond 10

Appearance of Water: Clear \_\_\_ Milky \_\_\_ Cloudy \_\_\_ Opaque \_\_\_

Quality Sample Taken: Yes \_\_\_ No \_\_\_

Pump Reading \_\_\_\_\_

Comments \_\_\_\_\_

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: \_\_\_\_\_

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

WATER MONITORING REPORT

Property: Castle Gate  
Station: BM-30  
Location: Inflow to Sed. Pond  
Type: Disturbed  
Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
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 11/28/94 Station # BM-31

Company Amex

Time 14:40

Flow/Depth Not Obs.

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring  Stream \_\_\_\_\_ Well \_\_\_\_\_ Discharge \_\_\_\_\_ NPDES \_\_\_\_\_

Collection Point portal pipe -

Appearance of Water: Clear \_\_\_\_\_ Milky \_\_\_\_\_ Cloudy \_\_\_\_\_ Opaque \_\_\_\_\_

Quality Sample Taken: Yes \_\_\_\_\_ No

Pump Reading \_\_\_\_\_

Comments 14" flow level 2.5 miles below station.

Field Monitor [Signature]

When Sample or Measurements Not Taken:

Reason: N/A

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

WATER MONITORING REPORT

Property:	Castle Gate
Station:	BM-31
Location:	Above Spring Glen
Type:	Spring
Frequency:	Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/28/94	
Flow [gpm]	5.00	15.00	5.00	INACC	8.33
PH	7.10	6.26	6.54		6.63
Sp. Cond. [ohms]	1,270.00	1,450.00	1,401.00		1,373.67
Temp. [C]	7.00	8.00	8.00		7.67

Lab. Meas. [mg/l]

TDS	785.00	758.00	824.00		789.00
TSS	15.00	18.00	4.00		12.33
Al CaCO3	424.00	415.00	428.00		422.33
Hd CaCO3	673.00	700.00	646.00		673.00
HCO3	517.00	507.00	428.00		484.00
CO3	0.00	0.00	0.00		0.00
Cl	29.00	30.00	34.00		31.00
SO4	270.00	263.00	286.00		273.00
Ca	88.00	44.00	129.00		87.00
Mg	111.00	144.00	79.00		111.33
K	5.60	6.40	6.00		6.00
Na	27.00	23.00	27.00		25.67
Cat/An	0.51	1.84	<4.20		1.18
Fe	0.51	2.37	0.59		1.16
Mn	0.04	0.06	0.02		0.04

E.I.S. Hydrology  
Field Measurements Form

Date 1/09/94

Station # BM-32

Company Amex

Time 14:50

Flow/Depth D

pH \_\_\_\_\_

Specific Conductivity \_\_\_\_\_

Water Temperature \_\_\_\_\_

Air Temperature \_\_\_\_\_

Dissolved Oxygen \_\_\_\_\_

Type: Spring \_\_\_ Stream \_\_\_ Well \_\_\_ Discharge \_\_\_ NPDES \_\_\_

Collection Point Travel Spring

Appearance of Water: Clear \_\_\_ Milky ✓ Cloudy \_\_\_ Opaque \_\_\_

Quality Sample Taken: Yes \_\_\_ No \_\_\_

Pump Reading \_\_\_\_\_

Comments 10' Snow level - No Flow

Field Monitor J.M.P. Brown

When Sample or Measurements Not Taken:

Reason: \_\_\_\_\_

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

WATER MONITORING REPORT

Property: Castle Gate  
 Station: BM-32  
 Location: Above Rock Bridge  
 Type: Spring  
 Frequency: Quarterly

Field Measurements	Date Sampled				Mean
	03/24/94	06/14/94	09/07/94	11/29/94	
Flow [gpm]	DRY	DRY	DRY	DRY	DRY
PH					
Sp. Cond. [ohms]					
Temp. [C]					
Diss. O [ppm]					

Lab. Meas. [mg/l]		
TDS		1,930.00
TSS		1.00
O & G		<0.25
Al CaCO3		443.00
Hd CaCO3		1,440.00
Ac CaCO3		N/R
HCO3		540.00
CO3		0.00
Cl		50.00
SO4		1,090.00
Ca		230.00
Mg		212.00
K		20.00
Na		71.00
Cat/An		0.95
Fe		0.05
Mn		0.02

**CHAIN OF CUSTODY RECORD**

Laboratory Sample Numbers (ACZ Only):

13FF

**ACZ Laboratories, Inc.**  
 30400 Downhill Drive  
 Steamboat Springs CO 80487  
 (303) 879-6590 (800) 334-5493

RESULTS TO:

*ENVIRONMENTAL INDUSTRIAL SERVICES*  
 4855 N. SPRING GLEN RD.  
 HEPPER, UTAH 84526  
 Attn: *DAVID STEED* Tel: (801) 472-3814

BILL TO:

*Cyprian Plateau / Amax*  
 P.O. DRAWER 2002  
 PRICE, UTAH 84501  
 Attn: *LUNNIE MILLS* Tel: (801) 637-2875

PROJECT or P.O. #

*Amax / Cyprian*

SAMPLERS: (Signature/Print Name)

SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE MATRIX
<i>13-5</i>	<i>11/29/94</i>	<i>12:00</i>	<i>SW</i>
<i>13-6</i>	<i>11/29/94</i>	<i>12:30</i>	<i>SW</i>

# of CONTAINERS	ANALYSES REQUESTED						
	RAW	METALS	OIL AND GREASE				
<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>				
<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>				

REMARKS

*1 liter and  
 rec'd. list of  
 all sample  
 bottles for set  
 w/next group.  
 Thanks*

Condition of Samples Upon Receipt  
 By ACZ Laboratories, Inc. *3* °C  
 Temperature of Contents: *3* °C  
 Sample Containers: *Plastic*  
 Custody Seals: *NA*

METHOD OF SHIPMENT: FED X  UPS  HAND  OTHER

SAMPLE DISPOSAL OPTIONS - Please complete section A, or choose one option from sections B AND C.  
 Proper charges will be assessed.

(A) Long-term storage  
 Hold until \_\_\_\_\_ (date)  
 for future analysis.

(B)  Sample is Non-Hazardous  
 1) Local Disposal   
 2) RCRA-Permitted Facility  
 3) Return to Client

(C) If Sample is Hazardous  
 1) RCRA-Permitted Facility  
 2) Return to Client

COMMENTS

*THESE SAMPLES  
 HAVE NOT BEEN  
 FIELD FILTERED*

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	PAGE #
<i>[Signature]</i>	<i>11/30/94</i>	<i>4:30</i>	<i>B. Anin</i>	<i>12/2/94</i>	<i>10:15</i>	.....
						OF
						.....

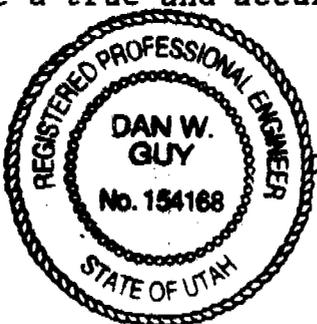
**CYPRUS-PLATEAU COAL CO.**  
**POND INSPECTION REPORT**  
**(Construction)**

POND: 016

LOCATION: Sowbelly Canyon

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None Noted.</u>
(2) Slope Stability	<u>Slopes Appear Stable.</u>
(3) Erosion	<u>None Evident.</u>
(4) Construction and Maintenance Performance Standards	<u>Pond constructed according to plan and grade stakes.</u>
(5) Recommendations / Comments	<u>Pond 90% complete. Need to complete spillway and rip-rap inlets.</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.



*Dan W. Guy*  
Date: 04/15/94

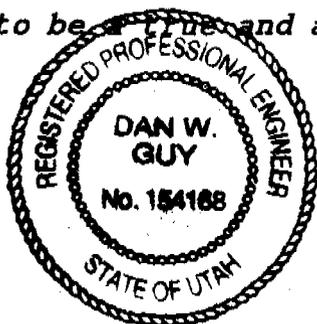
**CYPRUS-PLATEAU COAL CO.**  
**POND INSPECTION REPORT**  
**(Construction)**

**POND:** 016

**LOCATION:** Sowbelly Canyon

<b>ITEM</b>	<b>REMARKS</b>
(1) <b>Potential Safety Hazards</b>	<u>None Noted.</u>
(2) <b>Slope Stability</b>	<u>Stable - Excavation just started.</u>
(3) <b>Erosion</b>	<u>None Evident.</u>
(4) <b>Construction and Maintenance Performance Standards</b>	<u>Being constructed according to plan and grade stakes.</u>
(5) <b>Recommendations / Comments</b>	<u>Pond in early construction stage.</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.



*[Handwritten Signature]*

**Date:** 11/18/93

CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 016-New 1994

LOCATION: Sowbelly Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable.</u>                             |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>Dry</u>  |
| (5) Existing Storage Capacity   | <u>43,708 cu. ft.</u>                             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

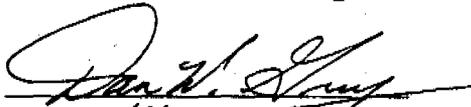
- |  |                       |
|--|-----------------------|
| (7) Sediment Accumulation (Elev.)                | <u>7043.0</u>         |
| (8) Sediment Cleanout Level (Elev.)              | <u>7045.0</u>         |
| (9) Principle Spillway (Elev.)                   | <u>7049.9</u>         |
| (10) Emergency Spillway (Elev.)                  | <u>7049.9</u>         |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>12,513 cu. ft.</u> |

GENERAL

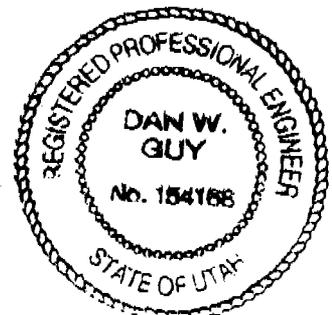
- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 7053.0.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

10-17-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 017-New 1994

LOCATION: Sowbelly Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>                     |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>Dry</u>  |
| (5) Existing Storage Capacity   | <u>55,285 cu. ft.</u>                             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

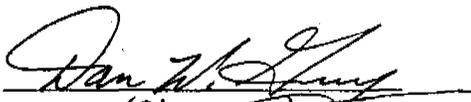
- |  |                       |
|--|-----------------------|
| (7) Sediment Accumulation (Elev.)                | <u>6983.0</u>         |
| (8) Sediment Cleanout Level (Elev.)              | <u>6986.6</u>         |
| (9) Principle Spillway (Elev.)                   | <u>6993.4</u>         |
| (10) Emergency Spillway (Elev.)                  | <u>6993.4</u>         |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>14,890 cu. ft.</u> |

GENERAL

- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 6995.0.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

10-17-94  
(Date)



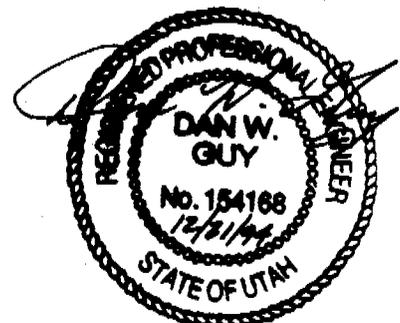
**CASTLE GATE  
BARN CANYON DIVERSION CGD-5  
MONITORING POINTS**

STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE				CHANGE	
	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4 12/13/94	LAST	ACC
#1	N/A	N/A	N/A	2.68'	0	0
#2	N/A	N/A	N/A	2.13'	0	0
#3	N/A	N/A	N/A	2.64'	0	0

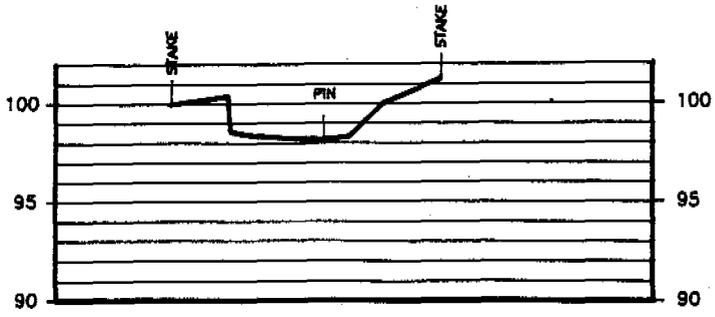
STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE				CHANGE	
	QUARTER 1 1995	QUARTER 2 1995	QUARTER 3 1995	QUARTER 4 1995	LAST	ACC
#1	N/A	N/A	N/A	N/A	0	0
#2	N/A	N/A	N/A	N/A	0	0
#3	N/A	N/A	N/A	N/A	0	0

**NOTE:**

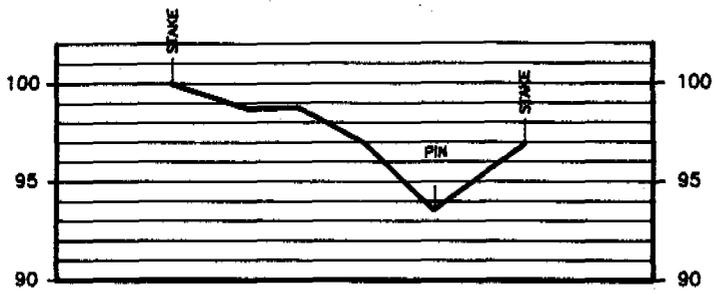
- (1) All stations were installed on 12/13/94.
- (2) Cross-sections will be taken annually.
- (3) Measurements from top of pin to the flowline will be taken quarterly.



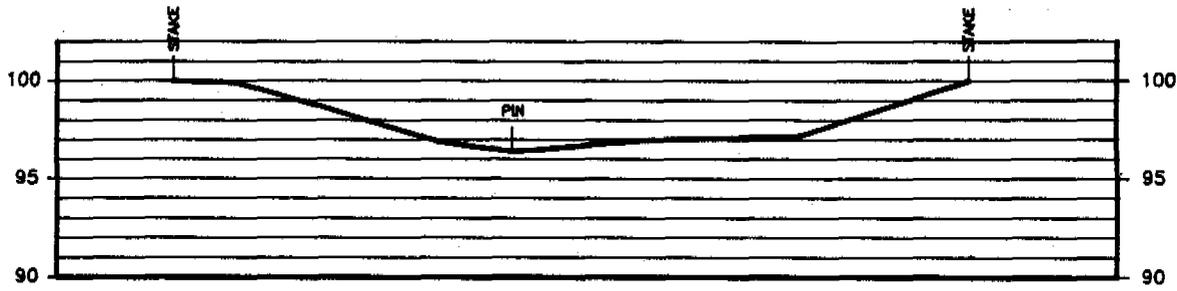
CASTLE GATE  
DIVERSION CGD-5  
MONITORING POINTS  
CROSS-SECTIONS



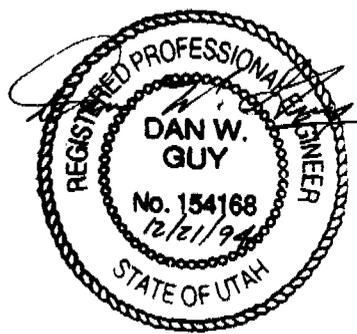
CROSS-SECTION #3



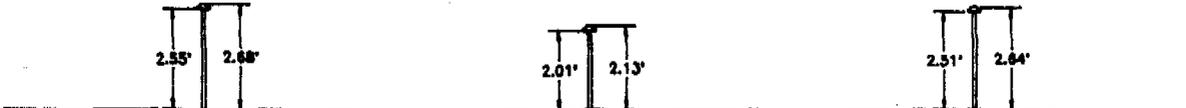
CROSS-SECTION #2



CROSS-SECTION #1



- NOTE: (1) SECTION VIEW LOOKING UP FROM BARN CANYON.  
 (2) ELEVATIONS ARE RELATIVE.  
 (3) SCALE 1" = 10'



CROSS-SECTION #1

CROSS-SECTION #2

CROSS-SECTION #3

(POND ELIMINATED DURING 1994 RECLAMATION)

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 003

LOCATION: Sowbelly Canyon

IMPOUNDMENTS

- |                                 |                                 |
|---------------------------------|---------------------------------|
| (1) Stability                   | <u>Slopes Stable/Vegetated.</u> |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>              |
| (3) Potential Safety Hazards    | <u>None Noted.</u>              |
| (4) Depth of Impounded Water    | <u>Dry</u>                      |
| (5) Existing Storage Capacity   | <u>9260 cu. ft.</u>             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u>    |

SEDIMENT PONDS ONLY

- |  |                     |
|--|---------------------|
| (7) Sediment Accumulation (Elev.)                | <u>92.3</u>         |
| (8) Sediment Cleanout Level (Elev.)              | <u>94.7</u>         |
| (9) Principle Spillway (Elev.)                   | <u>96.8</u>         |
| (10) Emergency Spillway (Elev.)                  | <u>N/A</u>          |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>1914 cu. ft.</u> |

GENERAL

- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Would discharge to 004.<br/>Elevations Relative to Dam Elevation<br/>of 100.00.</u> |
|-------------------------------|--|

STATEMENT

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
08-24-93  
(Date)

(POND ELIMINATED DURING 1994 RECLAMATION)

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 004

LOCATION: Sowbelly Canyon

IMPOUNDMENTS

(1) Stability	<u>Slopes Stable/Incised.</u>
(2) Structural Weakness/Erosion	<u>None Noted.</u>
(3) Potential Safety Hazards	<u>None Noted.</u>
(4) Depth of Impounded Water	<u>Dry</u>
(5) Existing Storage Capacity	<u>22,500 cu.ft.</u>
(6) Monitoring Procedures	<u>Quarterly Inspection.</u>

SEDIMENT PONDS ONLY

(7) Sediment Accumulation (Elev.)	<u>91.9</u>
(8) Sediment Cleanout Level (Elev.)	<u>93.5</u>
(9) Principle Spillway (Elev.)	<u>98.7</u>
(10) Emergency Spillway (Elev.)	<u>N/A</u>
(11) Existing Sediment Capacity (To Cleanout)	<u>978 cu. ft.</u>

GENERAL

(12) Comments/Recommendations	<u>No Discharge. Would discharge to 005. Elevations Relative to Dam Elevation of 100.00.</u>
-------------------------------	--

STATEMENT

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
08-24-93  
(Date)

(POND ELIMINATED DURING 1994 RECLAMATION)

CASTLE GATE COAL COMPANY

1993 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 005

LOCATION: Sowbelly Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>                     |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>Dry</u>  |
| (5) Existing Storage Capacity   | <u>18,560 cu.ft.</u>                              |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

- |  |                    |
|--|--------------------|
| (7) Sediment Accumulation (Elev.)                | <u>93.1</u>        |
| (8) Sediment Cleanout Level (Elev.)              | <u>93.8</u>        |
| (9) Principle Spillway (Elev.)                   | <u>99.1</u>        |
| (10) Emergency Spillway (Elev.)                  | <u>99.1</u>        |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>552 cu. ft.</u> |

GENERAL

- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 100.00.</u> |
|-------------------------------|---|

STATEMENT

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

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
08-24-93  
(Date)

CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 007

LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>                           |
| (2) Structural Weakness/Erosion | <u>Minor sloughage on inside of berm near spillway.</u> |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                      |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u><br><u>4" of snow (no ice)</u>          |
| (5) Existing Storage Capacity   | <u>41,860 cu.ft.</u>                                    |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u>       |

SEDIMENT PONDS ONLY

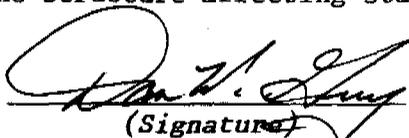
- |   |                     |
|---|---------------------|
| (7) Sediment Accumulation (Elev.)             | <u>90.6</u>         |
| (8) Sediment Cleanout Level (Elev.)           | <u>92.5</u>         |
| (9) Principle Spillway (Elev.)                | <u>99.0</u>         |
| (10) Emergency Spillway (Elev.)               | <u>100.0</u>        |
| (11) Existing Sediment Capacity (To Cleanout) | <u>7554 cu. ft.</u> |

GENERAL

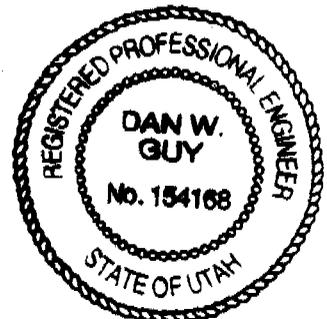
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Spillway</u><br><u>Elevation of 100.00.</u> |
|-------------------------------|--|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 008

LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Incised/Vegetated.</u>           |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u><br><u>8" of snow (no ice)</u>    |
| (5) Existing Storage Capacity   | <u>39,237 cu.ft.</u>                              |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

- |  |                     |
|--|---------------------|
| (7) Sediment Accumulation (Elev.)                | <u>92.3</u>         |
| (8) Sediment Cleanout Level (Elev.)              | <u>92.8</u>         |
| (9) Principle Spillway (Elev.)                   | <u>99.0</u>         |
| (10) Emergency Spillway (Elev.)                  | <u>100.1</u>        |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>2000 cu. ft.</u> |

GENERAL

- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Spillway</u><br><u>Elevation of 100.10. Bent Sed Marker.</u> |
|-------------------------------|---|

STATEMENT

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

*Dan W. Guy*  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 009 (Upper)

LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

- |                                 |  |
|---------------------------------|--|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>                  |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                             |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                             |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u><br><u>8" of snow (no ice)</u> |
| (5) Existing Storage Capacity   | <u>2703 cu. ft.</u>                            |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u>                   |

SEDIMENT PONDS ONLY

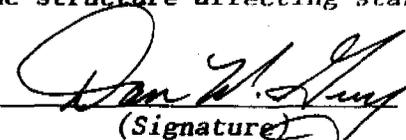
- |  |                     |
|--|---------------------|
| (7) Sediment Accumulation (Elev.)                | <u>100.9</u>        |
| (8) Sediment Cleanout Level (Elev.)              | <u>102.0</u>        |
| (9) Principle Spillway (Elev.)                   | <u>103.2</u>        |
| (10) Emergency Spillway (Elev.)                  | <u>103.2</u>        |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>1191 cu. ft.</u> |

GENERAL

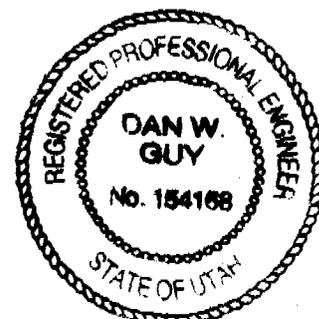
- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Lower Dam</u><br><u>Elevation of 100.00.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 009 (Lower)

LOCATION: Hardscrabble Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>   |
| (2) Structural Weakness/Erosion | <u>Upper X-Bar Down, 4 X-Bars In.</u><br><u>Minor sloughage on corners.</u> |
| (3) Potential Safety Hazards    | <u>None Noted.</u>  |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u><br><u>8" of snow (no ice)</u>                              |
| (5) Existing Storage Capacity   | <u>27,083 cu.ft.</u>  |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u>                           |

SEDIMENT PONDS ONLY

- |  |                    |
|--|--------------------|
| (7) Sediment Accumulation (Elev.)                | <u>87.4</u>        |
| (8) Sediment Cleanout Level (Elev.)              | <u>87.7</u>        |
| (9) Principle Spillway (Elev.)                   | <u>98.0</u>        |
| (10) Emergency Spillway (Elev.)                  | <u>99.0</u>        |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>643 cu. ft.</u> |

GENERAL

- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Lower Dam</u><br><u>Elevation of 100.00.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 010

LOCATION: Castle Gate No. 1 Mine

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Mostly Incised.</u>              |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>2.0' (Ice)</u>                                 |
| (5) Existing Storage Capacity   | <u>8905 cu. ft.</u>                               |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

- |  |                    |
|--|--------------------|
| (7) Sediment Accumulation (Elev.)                | <u>92.5</u>        |
| (8) Sediment Cleanout Level (Elev.)              | <u>94.1</u>        |
| (9) Principle Spillway (Elev.)                   | <u>100.0</u>       |
| (10) Emergency Spillway (Elev.)                  | <u>100.0</u>       |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>916 cu. ft.</u> |

GENERAL

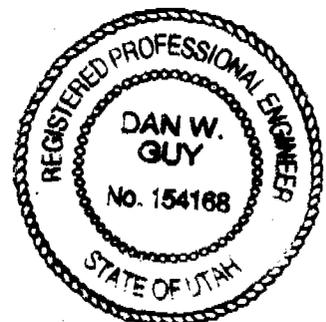
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No inflow. Open Channel Spillway.</u><br><u>Elevations Relative to Open Spillway</u><br><u>Elevation of 100.00.</u> |
|-------------------------------|--|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 011

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |  |
|---------------------------------|--|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>                                |
| (2) Structural Weakness/Erosion | <u>Moderate on SW Inlet.</u><br><u>Moderate on NW Inlet.</u> |
| (3) Potential Safety Hazards    | <u>None Noted.</u>   |
| (4) Depth of Impounded Water    | <u>6"</u>  |
| (5) Existing Storage Capacity   | <u>43,320 cu. ft.</u>  |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u>            |

SEDIMENT PONDS ONLY

- |  |                    |
|--|--------------------|
| (7) Sediment Accumulation (Elev.)                | <u>82.3</u>        |
| (8) Sediment Cleanout Level (Elev.)              | <u>83.0</u>        |
| (9) Principle Spillway (Elev.)                   | <u>97.0</u>        |
| (10) Emergency Spillway (Elev.)                  | <u>98.0</u>        |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>687 cu. ft.</u> |

GENERAL

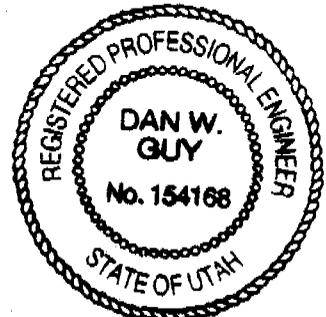
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 100.00. Recommend Grouting Inlets.</u> |
|-------------------------------|--|

STATEMENT

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

*Dan W. GUY*  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 012A

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |  |
|---------------------------------|--|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>  |
| (2) Structural Weakness/Erosion | <u>Hole in Bank Under Road - Appears to be an Old Structure for Storage.</u>                         |
| (3) Potential Safety Hazards    | <u>Hole in Bank Could Cause Piping.</u><br><u>No deterioration is evident since 1992 inspection.</u> |
| (4) Depth of Impounded Water    | <u>12"</u>   |
| (5) Existing Storage Capacity   | <u>52,069 cu. ft.</u>  |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u>   |

SEDIMENT PONDS ONLY

- |   |                     |
|---|---------------------|
| (7) Sediment Accumulation (Elev.)             | <u>91.6</u>         |
| (8) Sediment Cleanout Level (Elev.)           | <u>92.5</u>         |
| (9) Principle Spillway (Elev.)                | <u>97.3</u>         |
| (10) Emergency Spillway (Elev.)               | <u>98.3</u>         |
| (11) Existing Sediment Capacity (To Cleanout) | <u>1243 cu. ft.</u> |

GENERAL

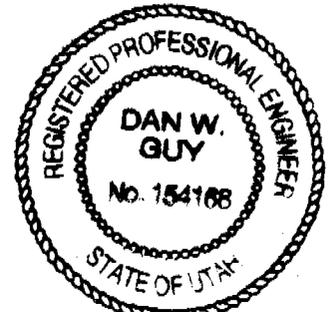
- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation of 100.00. Recommend Repairing Hole.</u> |
|-------------------------------|---|

STATEMENT

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

*Dan W. Guy*  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 012B

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable.</u>                             |
| (2) Structural Weakness/Erosion | <u>Minor Erosion on North Inlet.</u>              |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u>                                  |
| (5) Existing Storage Capacity   | <u>47,642 cu. ft.</u>                             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

- |  |                     |
|--|---------------------|
| (7) Sediment Accumulation (Elev.)                | <u>85.4</u>         |
| (8) Sediment Cleanout Level (Elev.)              | <u>85.6</u>         |
| (9) Principle Spillway (Elev.)                   | <u>91.0</u>         |
| (10) Emergency Spillway (Elev.)                  | <u>91.0</u>         |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>1128 cu. ft.</u> |

GENERAL

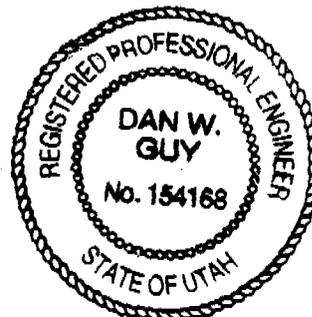
- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>for 12A of 100.00.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Refuse Pond 013

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Mostly Incised.</u>                          |
| (2) Structural Weakness/Erosion | <u>Minor Erosion North of SE inlet.<br/>Channel Repaired.</u> |
| (3) Potential Safety Hazards    | <u>None Noted.</u>  |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u>  |
| (5) Existing Storage Capacity   | <u>8.35 acre feet.</u>  |
| (6) Monitoring Procedures       | <u>Weekly Inspection per M.S.H.A.<br/>U.P.D.E.S.</u>          |

SEDIMENT PONDS ONLY

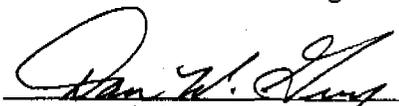
- |  |                        |
|--|------------------------|
| (7) Sediment Accumulation (Elev.)                | <u>6235.3</u>          |
| (8) Sediment Cleanout Level (Elev.)              | <u>6245.5</u>          |
| (9) Principle Spillway (Elev.)                   | <u>6255.0</u>          |
| (10) Emergency Spillway (Elev.)                  | <u>6255.0</u>          |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>2.78 acre feet.</u> |

GENERAL

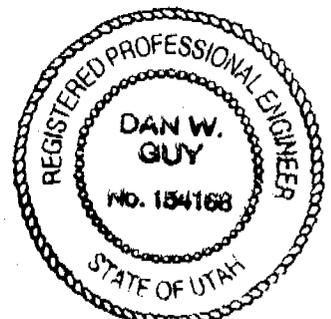
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.<br/>M.S.H.A. Pond ID-1211-UT-09-00-165-02.<br/>New Flex Pipe added on North Inlet.</u> |
|-------------------------------|--|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 014

LOCATION: Crandall Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable.</u>                             |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>3.00'</u>                                      |
| (5) Existing Storage Capacity   | <u>36,565 cu. ft.</u>                             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

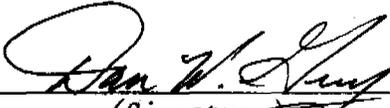
- |  |                       |
|--|-----------------------|
| (7) Sediment Accumulation (Elev.)                | <u>88.5</u>           |
| (8) Sediment Cleanout Level (Elev.)              | <u>90.8</u>           |
| (9) Principle Spillway (Elev.)                   | <u>95.3</u>           |
| (10) Emergency Spillway (Elev.)                  | <u>97.0</u>           |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>13,500 cu. ft.</u> |

GENERAL

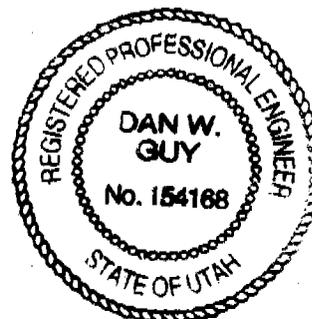
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Dual Culvert Spillways.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 100.00.</u> |
|-------------------------------|--|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 015

LOCATION: Crandall Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable.</u>                             |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>Dry - 12" Snow</u>                             |
| (5) Existing Storage Capacity   | <u>45,287 cu. ft.</u>                             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.B.S.</u> |

SEDIMENT PONDS ONLY

- |  |                       |
|--|-----------------------|
| (7) Sediment Accumulation (Elev.)                | <u>88.6</u>           |
| (8) Sediment Cleanout Level (Elev.)              | <u>94.0</u>           |
| (9) Principle Spillway (Elev.)                   | <u>98.2</u>           |
| (10) Emergency Spillway (Elev.)                  | <u>99.6</u>           |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>18,796 cu. ft.</u> |

GENERAL

- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 101.00.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Thickener Pond

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |                                      |
|---------------------------------|--------------------------------------|
| (1) Stability                   | <u>Slopes Stable/Mostly Incised.</u> |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                   |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                   |
| (4) Depth of Impounded Water    | <u>N/A - Dry.</u>                    |
| (5) Existing Storage Capacity   | <u>10.33 acre feet.</u>              |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u>         |

SEDIMENT PONDS ONLY

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

GENERAL

- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Inactive Impoundment.</u> |
|-------------------------------|--|

STATEMENT

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

*Dan W. Guy*  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Treatment Plant Pond

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |                               |
|---------------------------------|-------------------------------|
| (1) Stability                   | <u>Slopes Stable/Incised.</u> |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>            |
| (3) Potential Safety Hazards    | <u>None Noted.</u>            |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u>              |
| (5) Existing Storage Capacity   | <u>2.35 acre feet.</u>        |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u>  |

SEDIMENT PONDS ONLY

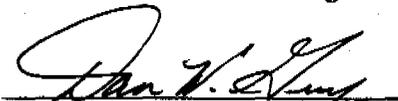
- |  |            |
|--|------------|
| (7) Sediment Accumulation (Elev.)                | <u>N/A</u> |
| (8) Sediment Cleanout Level (Elev.)              | <u>N/A</u> |
| (9) Principle Spillway (Elev.)                   | <u>N/A</u> |
| (10) Emergency Spillway (Elev.)                  | <u>N/A</u> |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

GENERAL

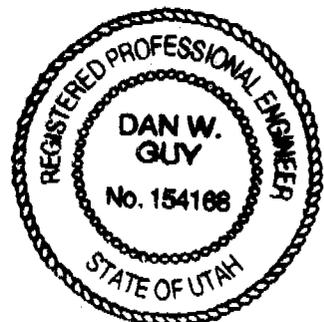
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Inactive Impoundment.</u> |
|-------------------------------|--|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Wash Plant Feed Pond

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |  |
|---------------------------------|--|
| (1) Stability                   | <u>Slopes Stable. Rubber Lined Pond.</u> |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                       |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                       |
| (4) Depth of Impounded Water    | <u>N/A - Dry.</u>                        |
| (5) Existing Storage Capacity   | <u>3.62 acre feet.</u>                   |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u>             |

SEDIMENT PONDS ONLY

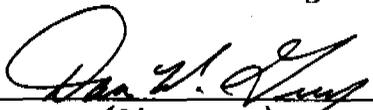
- |  |            |
|--|------------|
| (7) Sediment Accumulation (Elev.)                | <u>N/A</u> |
| (8) Sediment Cleanout Level (Elev.)              | <u>N/A</u> |
| (9) Principle Spillway (Elev.)                   | <u>N/A</u> |
| (10) Emergency Spillway (Elev.)                  | <u>N/A</u> |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

GENERAL

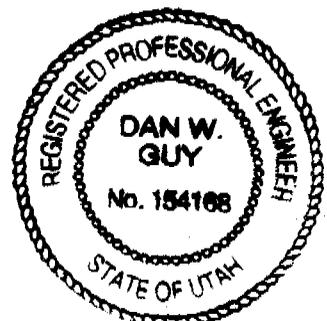
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Inactive Impoundment.</u> |
|-------------------------------|--|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 016-New 1994

LOCATION: Sowbelly Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable.</u>                             |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>Dry</u>  |
| (5) Existing Storage Capacity   | <u>43,708 cu. ft.</u>                             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

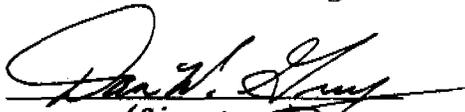
- |  |                       |
|--|-----------------------|
| (7) Sediment Accumulation (Elev.)                | <u>7043.0</u>         |
| (8) Sediment Cleanout Level (Elev.)              | <u>7045.0</u>         |
| (9) Principle Spillway (Elev.)                   | <u>7049.9</u>         |
| (10) Emergency Spillway (Elev.)                  | <u>7049.9</u>         |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>12,513 cu. ft.</u> |

GENERAL

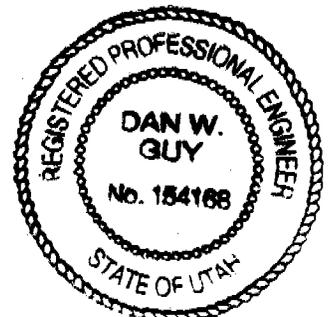
- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 7053.0.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

10-17-94  
(Date)



CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Sed. Pond 017-New 1994

LOCATION: Sowbelly Canyon

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Incised.</u>                     |
| (2) Structural Weakness/Erosion | <u>None Noted.</u>                                |
| (3) Potential Safety Hazards    | <u>None Noted.</u>                                |
| (4) Depth of Impounded Water    | <u>Dry</u>  |
| (5) Existing Storage Capacity   | <u>55,285 cu. ft.</u>                             |
| (6) Monitoring Procedures       | <u>Quarterly Inspection.</u><br><u>U.P.D.E.S.</u> |

SEDIMENT PONDS ONLY

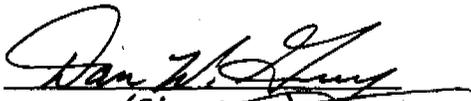
- |  |                       |
|--|-----------------------|
| (7) Sediment Accumulation (Elev.)                | <u>6983.0</u>         |
| (8) Sediment Cleanout Level (Elev.)              | <u>6986.6</u>         |
| (9) Principle Spillway (Elev.)                   | <u>6993.4</u>         |
| (10) Emergency Spillway (Elev.)                  | <u>6993.4</u>         |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>14,890 cu. ft.</u> |

GENERAL

- |                               |   |
|-------------------------------|---|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.</u><br><u>Elevations Relative to Dam Elevation</u><br><u>of 6995.0.</u> |
|-------------------------------|---|

STATEMENT

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

  
(Signature)

10-17-94  
(Date)



E.I.S Hydrology  
Pond Inspection Report

POND: 003 - been replaced by  
016

LOCATION: South Valley

<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>Pond fully constructed</u> <u>except for spillway</u> <u>dam needs to be in</u>
(5) Recommendations/Comments	<u>Complete pond spillway</u>

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

[Signature]  
Inspector

Date 1/4/94

E.I.S Hydrology  
Pond Inspection Report

POND: 004

LOCATION: Southville

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Pond is Breached with new-channel upon end-</u>
(5) Recommendations/Comments	<u>Pond 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.

W.A. Benson  
Inspector

Date 1/4/94

E.I.S Hydrology  
Pond Inspection Report

POND: 025

LOCATION: Lowell

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

J. P. Benson  
Inspector

Date 4/4/94

E.I.S Hydrology  
Pond Inspection Report

POND: 007

LOCATION: Hanks ground

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

Date 1/2/97

E.I.S Hydrology  
Pond Inspection Report

POND: 008

LOCATION: Hardsg roof

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

1/2/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 009

LOCATION: Humblywood

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

J.P. Bourne  
Inspector

Date 1/2/99

E.I.S Hydrology  
Pond Inspection Report

POND: 10

LOCATION: Paul 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>No Prehazards Snow Evidence</u>

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

[Signature]  
Inspector

Date 1/6/24

E.I.S Hydrology  
Pond Inspection Report

POND: 11

LOCATION: Deep Pond

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

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

[Signature]  
Inspector

Date 1/6/94

E.I.S Hydrology  
Pond Inspection Report

POND: 15-13

LOCATION: Big Pond

ITEM	REMARKS
(1) Potential Safety Hazards	None
(2) Slope Stability	Good
(3) Erosion	None
(4) Construction and Maintenance Performance Standards	Good
(5) Recommendations/Comments	None Sloped on lower edge of Bank -

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

[Signature]  
Inspector  
1/6/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 12A -

LOCATION: Rep Plant -

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	None
(2) Slope Stability	Stable
(3) Erosion	None
(4) Construction and Maintenance Performance Standards	Good - Pond Very
(5) Recommendations/Comments	No Delay

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.

Melvin J. Brown  
Inspector

Date 1/6/94

E.I.S Hydrology  
Pond Inspection Report

POND: 14

LOCATION: Bandel

<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>6" Below overflow no discharge</u>

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

[Signature]  
Inspector

Date 1/6/94

E.I.S Hydrology  
Pond Inspection Report

POND: 15

LOCATION: Crandal

<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 - Dry</u>
(5) Recommendations/Comments	<u>No Purchase</u>

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

[Signature]  
Inspector

Date 1/6/94

E.I.S Hydrology  
Pond Inspection Report

POND: 007

LOCATION: Hard Scrabble

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>No discharge</u> <u>75" of yellow silt</u> <u>on bed material</u>

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

[Signature]  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 008

LOCATION: Harb Scrabble

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>No discharge 1' of yellow left on Seb Marker</u>

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

[Signature]  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 009

LOCATION: Hard Scrabble

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

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

[Signature]  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 10

LOCATION: Price Canyon  
Castle Gate

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Do discharge</u>
(5) Recommendations/Comments	<u>NO Standing Water</u> <u>in Pond</u>

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

[Signature]  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 11

LOCATION: Castle Gate Prep Plant

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Inlets good condition NO discharge</u>
(5) Recommendations/Comments	<u>No water <del>12"</del> of sediment 12" below yellow on weather</u>

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

[Signature]  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 12A

LOCATION: Castle Gate  
Waf Plant

ITEM

REMARKS

(1) Potential Safety Hazards

Done

(2) Slope Stability

Good

(3) Erosion

Done

(4) Construction and Maintenance  
Performance Standards

Well established vegetation

NO discharge

(5) Recommendations/Comments

18" of yellow showing  
ON marker

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.

Godd Wetz  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 12B

LOCATION: Castle Gate  
Pond Plant

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>Done</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>Done</u>
(4) Construction and Maintenance Performance Standards	<u>NO discharge</u>
(5) Recommendations/Comments	<u>1' of yellow on marker left.</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.

John W. [Signature]  
Inspector

6-14-54  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 13

LOCATION: Castle Gate  
Prep Plant

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u> <u>No discharge</u>
(5) Recommendations/Comments	<u>No Standing Water</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.

Bob White

Inspector

6-14-54

Date

E.I.S Hydrology  
Pond Inspection Report

POND: 14

LOCATION: Crandal

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

Bob Wiley  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 15

LOCATION: Cradell Canyon

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>NO DISCHARGE</u>

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

[Signature]  
Inspector

6-14-54  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 016

LOCATION: Sawbelly  
Spring Canyon

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>No discharge</u>

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

[Signature]  
Inspector

6-14-94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: Swamp Pond

LOCATION: Swampy

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

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

Michael P. Penno  
Inspector

Date 8/1/94

E.I.S Hydrology  
Pond Inspection Report

POND:

*Upper Pond - New*

LOCATION:

*Lewis Valley*

ITEM	REMARKS
(1) Potential Safety Hazards	<i>New</i>
(2) Slope Stability	<i>Good</i>
(3) Erosion	<i>New.</i>
(4) Construction and Maintenance Performance Standards	<i>Good</i>
(5) Recommendations/Comments	<i>2" water level</i>

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

*[Signature]*  
Inspector

Date

*5/11/94*

E.I.S Hydrology  
Pond Inspection Report

POND: 09

LOCATION: Wardsworth

<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>15" Water level No Discharge</u>

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

[Signature]  
Inspector

Date 9/11/99

E.I.S Hydrology  
Pond Inspection Report

POND: 05

LOCATION: Subground

<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>6" water level No Discharge</u>

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

[Signature]  
Inspector

Date 8/10/94

E.I.S Hydrology  
Pond Inspection Report

POND: 009

LOCATION: Hardgrove

<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>Stable</u>
(5) Recommendations/Comments	<u>Upper Bell Full - Lower Bell Dry - No Discharge</u>

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

[Signature]  
Inspector

Date 9/11/94

E.I.S Hydrology  
Pond Inspection Report

POND: ED12-A: B

LOCATION: See Log

<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>None - ED12-A: B</u>

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

[Signature]  
Inspector

Date 8/11/94



E.I.S Hydrology  
Pond Inspection Report

POND: 010

LOCATION: Pine Canyon

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Good</u>
(3) Erosion	<u>Minor - on inlet.</u>
(4) Construction and Maintenance Performance Standards	<u>Good.</u>
(5) Recommendations/Comments	<u>No discharge</u>

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

[Signature]  
Inspector

Date 8/11/94

E.I.S Hydrology  
Pond Inspection Report

POND: 0013

LOCATION: Crandal

<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>&gt; 8" Water</u> <u>No Dredging</u>

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

[Signature]  
Inspector

Date 5/11/94

E.I.S Hydrology  
Pond Inspection Report

POND: 0014

LOCATION: Crandal

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Pond @ 50% Cap. 1' from Outlet No Discharge</u>

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

[Signature]  
Inspector

Date 8/11/94

E.I.S Hydrology  
Pond Inspection Report

POND: None

LOCATION: Candler Canyon

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Pond was jumped</u>
	<u>to allow</u>
	<u>the discharge</u>

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

[Signature]  
Inspector

Date 8/17/94

E.I.S Hydrology  
Pond Inspection Report

POND: 007

LOCATION: Handwritten

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>0' from no erosion</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>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.

Handwritten Signature  
Inspector

Date 1/25/94

E.I.S Hydrology  
Pond Inspection Report

POND: 008

LOCATION: Handwritten

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>No evidence of erosion</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>None</u>

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

[Signature]  
Inspector

Date 11/28/84

E.I.S Hydrology  
Pond Inspection Report

POND: 009

LOCATION: Hardgrove

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>No evidence of bank erosion</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>Open all day None No Discharge</u>

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

[Signature]  
Inspector

Date 11/28/94

E.I.S Hydrology  
Pond Inspection Report

POND: #10

LOCATION Pine Log

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good</u>
(5) Recommendations/Comments	<u>&gt; 3" Water Frozen no Discharge</u>

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

[Signature]  
Inspector

1/28/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: #11

LOCATION: Rep Pond

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good - Pond Clean</u>
(5) Recommendations/Comments	<u>1" Water level - Filling - 6" Snow 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.

J. M. O'Connell  
Inspector

11/20/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: B-A013

LOCATION: Dep Pond

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Good - upper cell - All good</u> <u>Dry - lower cell 6"</u> <u>Slides - 4" Stone</u>
(5) Recommendations/Comments	<u>Frozen -</u> <u>No Discharge</u>

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

[Signature]  
Inspector

11/28/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 0013

LOCATION: Pop Pond

ITEM	REMARKS
(1) Potential Safety Hazards	<u>None</u>
(2) Slope Stability	<u>Stable</u>
(3) Erosion	<u>None</u>
(4) Construction and Maintenance Performance Standards	<u>Stand - Repair Damages</u>
(5) Recommendations/Comments	<u>By - Frigate No Change</u>

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

[Signature]  
Inspector

11/28/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 0014

LOCATION: Pondal

<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 - 14" Spaw</u>
(5) Recommendations/Comments	<u>No Discharge</u>

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

[Signature]  
Inspector

11/28/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 2015

LOCATION: Grandal

ITEM

REMARKS

(1) Potential Safety Hazards

None

(2) Slope Stability

Stable

(3) Erosion

None

(4) Construction and Maintenance  
Performance Standards

Good

(5) Recommendations/Comments

Frozen - 12" Snow  
No Discharge

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

[Signature]  
Inspector

4/28/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 8976

LOCATION: #5 Mine

<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>None - No Change</u>
(5) Recommendations/Comments	<u>None - No Discharge 13" Flow back</u>

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

[Signature]  
Inspector

11/20/94  
Date

E.I.S Hydrology  
Pond Inspection Report

POND: 0017

LOCATION: #5 / *[Handwritten]*

<u>ITEM</u>	<u>REMARKS</u>
(1) Potential Safety Hazards	<i>[Handwritten]</i>
(2) Slope Stability	<i>[Handwritten]</i>
(3) Erosion	<i>[Handwritten]</i>
(4) Construction and Maintenance Performance Standards	<i>[Handwritten]</i>
(5) Recommendations/Comments	<i>[Handwritten]</i>

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.

*[Handwritten Signature]*  
Inspector

Date 11/25/94

CASTLE GATE COAL COMPANY

1994 ANNUAL POND INSPECTION REPORT

POND: Refuse Pond 013

LOCATION: Castle Gate

IMPOUNDMENTS

- |                                 |   |
|---------------------------------|---|
| (1) Stability                   | <u>Slopes Stable/Mostly Incised.</u>                          |
| (2) Structural Weakness/Erosion | <u>Minor Erosion North of SE inlet.<br/>Channel Repaired.</u> |
| (3) Potential Safety Hazards    | <u>None Noted.</u>  |
| (4) Depth of Impounded Water    | <u>N/A - Dry</u>  |
| (5) Existing Storage Capacity   | <u>8.35 acre feet.</u>  |
| (6) Monitoring Procedures       | <u>Weekly Inspection per M.S.H.A.<br/>U.P.D.E.S.</u>          |

SEDIMENT PONDS ONLY

- |  |                        |
|--|------------------------|
| (7) Sediment Accumulation (Elev.)                | <u>6235.3</u>          |
| (8) Sediment Cleanout Level (Elev.)              | <u>6245.5</u>          |
| (9) Principle Spillway (Elev.)                   | <u>6255.0</u>          |
| (10) Emergency Spillway (Elev.)                  | <u>6255.0</u>          |
| (11) Existing Sediment Capacity<br>(To Cleanout) | <u>2.78 acre feet.</u> |

GENERAL

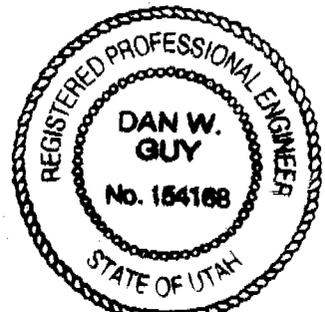
- |                               |  |
|-------------------------------|--|
| (12) Comments/Recommendations | <u>No Discharge. Open Channel Spillway.<br/>M.S.H.A. Pond ID-1211-UT-09-00-165-02.<br/>New Flex Pipe added on North Inlet.</u> |
|-------------------------------|--|

STATEMENT

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

  
(Signature)

12-01-94  
(Date)



POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

(1) Take action to eliminate the potentially hazardous condition;

(2) Notify the District Manager

(3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and

(4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 3 day of

Jan 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>Dry</u>		
Sediment Level <u>Low</u>		
Discharge	Yes _____	No <u>✓</u>

Comments No Change

M.P. Coenraets

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 2013 has been inspected on the 24th day of Jan 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<input checked="" type="checkbox"/>	_____
Non Hazards	<input checked="" type="checkbox"/>	_____
No Erosion	<input checked="" type="checkbox"/>	_____
Vegetative Cover	<input checked="" type="checkbox"/>	_____
Water Level	<u>2' (2' from)</u>	
Sediment Level	<u>None</u>	
Discharge	Yes _____	No <input checked="" type="checkbox"/>
Comments	<u>W. J. Lewis</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 00X3 has been inspected on the 17<sup>th</sup> day of Jan 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>Dry</u>	
Sediment Level	<u>3"</u>	
Discharge	Yes _____	No <u>✓</u>

Comments Inspected All Coal Bore - Found Dry  
No Apparent Changes  
D. M. A. Coombe

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 24 day of

Jan. 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>34</u>	
Sediment Level	<u>32"</u>	
Discharge	Yes <u>_____</u>	No <u>✓</u>

Comments

[Signature]

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

(1) Take action to eliminate the potentially hazardous condition;

(2) Notify the District Manager

(3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and

(4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 013 has been inspected on the 31<sup>st</sup> day of Jan 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>OK</u>		
Sediment Level <u>NA</u>		
Discharge	Yes _____	No <u>✓</u>

Comments

SMC Connor

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 28th day of Feb 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
* Vegetative Cover	<u>✓</u>	_____

Water Level llk

Sediment Level llk

Discharge Yes \_\_\_\_\_ No X

Comments No apparent change - "light snow" - Snowing  
Water level and Veg - Both covered - but no apparent  
change

*[Handwritten Signature]*



POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

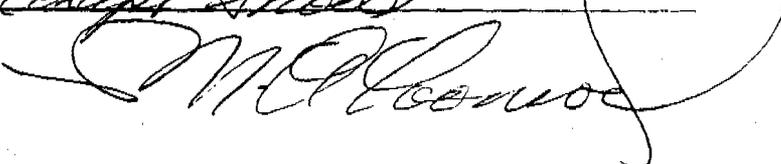
(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 21 day of June 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>Dry</u>		
Sediment Level <u>OK</u>		
Discharge	Yes _____	No <u>✓</u>

Comments Pond 0013 Snow Covered - No Apparent Erosion (except snow)  


POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 8013 has been inspected on the 28<sup>th</sup> day of June 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>        </u>
Non Hazards	<u>✓</u>	<u>        </u>
No Erosion	<u>✓</u>	<u>        </u>
Vegetative Cover	<u>✓</u>	<u>        </u>
Water Level	<u>    </u>	<u>        </u>
Sediment Level	<u>    </u>	<u>        </u>

Discharge Yes          No ✓

Comments Low water level  
Top low - No change  
M. Q. Cooney

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 7th day of March 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>  D  </u>		
Sediment Level <u>  73"  </u>		
Discharge	Yes <u>  O  </u>	No <u>  X  </u>
Comments <u>  J.P. Remoc  </u>		

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 14<sup>th</sup> day of March 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>Y</u>	_____
Non Hazards	<u>Y</u>	_____
No Erosion	<u>Y</u>	_____
Vegetative Cover	<u>Y</u>	_____
Water Level <u>0</u>		
Sediment Level <u>73"</u>		
Discharge	Yes _____	No <u>Y</u>
Comments <u>No Change</u>	<u>J. M. P. Connor</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0014 has been inspected on the 21 day of March 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>x</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>dry</u>	
Sediment Level	<u>53"</u>	

Discharge Yes \_\_\_\_\_ No +

Comments Very shallow to 200 ft. - No exposed channels. (Mid December - dry)

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 013 has been inspected on the 27<sup>th</sup> day of March 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>L</u>	_____
Non Hazards	<u>L</u>	_____
No Erosion	<u>L</u>	_____
Vegetative Cover	<u>L</u>	_____
Water Level <u>dry</u>		
Sediment Level <u>23"</u>		
Discharge	Yes _____	No <u>X</u>

Comments \_\_\_\_\_

ARK Plannon

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 27th day of April 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>Dry</u>		
Sediment Level <u>7.3"</u>		
Discharge	Yes _____	No <u>✓</u>
Comments <u>M.P. Connor</u>	<u>No Change</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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(1) Take action to eliminate the potentially hazardous condition;

(2) Notify the District Manager

(3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and

(4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 11 day of April 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>4'-6 1/2"</u>		
Sediment Level <u>23"</u>		
Discharge	Yes _____	No <u>X</u>

Comments Survey of Pond and Instrument

[Signature]

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 18<sup>th</sup> day of April 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>D</u>		
Sediment Level <u>73"</u>		
Discharge	Yes _____	No <u>✓</u>

Comments [Signature]

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 06 day of April 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>2" above 1/2 - from AM</u>	
Sediment Level	<u>23"</u>	
Discharge	Yes <u>✓</u>	No <u>X</u>
Comments	<u>J. M. P. [Signature]</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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(1) Take action to eliminate the potentially hazardous condition;

(2) Notify the District Manager

(3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and

(4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 2 day of May 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>0</u>	
Sediment Level	<u>&gt;3"</u>	
Discharge	Yes _____	No <u>✓</u>
Comments	<u>A.P. Connor</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond OXB has been inspected on the 9th day of May 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>Dry</u>	
Sediment Level	<u>53"</u>	
Discharge	Yes _____	No <u>X</u>
Comments	<u>W. P. Bond</u>	
	<u>No Change</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 16 day of May 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>0</u>		
Sediment Level <u>23"</u>		
Discharge	Yes _____	No <u>✓</u>

Comments [Signature]  
No Apparent Change

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 30 day of May 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>      </u>
Non Hazards	<u>✓</u>	<u>      </u>
No Erosion	<u>      </u>	<u>✓</u>
Vegetative Cover	<u>      </u>	<u>✓</u>
Water Level <u>Dry</u>		
Sediment Level <u>&gt; 3"</u>		
Discharge	Yes <u>      </u>	No <u>X</u>

Comments Minor erosion due to E. Tail -  
Log work completed - Tail 95" germinating

*[Handwritten Signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 6 day of June 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>Dry</u>	
Sediment Level	<u>73"</u>	
Discharge	Yes _____	No <u>✓</u>
Comments	<u>No Apparent Changes</u>	

*[Handwritten Signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0113 has been inspected on the 10<sup>th</sup> day of June 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>        </u>
Non Hazards	<u>✓</u>	<u>        </u>
No Erosion	<u>✓</u>	<u>        </u>
Vegetative Cover	<u>        </u>	<u>✓</u>
Water Level <u>1/4</u>		
Sediment Level <u>23"</u>		
Discharge	Yes <u>        </u>	No <u>✓</u>

Comments dry is coming on stream - no water  
Plant density good

*[Handwritten signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 27<sup>th</sup> day of June 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____

Water Level Dry

Sediment Level 53"

Discharge Yes \_\_\_\_\_ No ✓

Comments [Signature]

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 6<sup>th</sup> day of July 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>High</u>	
Sediment Level	<u>23"</u>	
Discharge	Yes _____	No <u>✓</u>
Comments	<u>MPA Connor</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond OKB has been inspected on the 11th day of July 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level <u>Dry</u>		
Sediment Level <u>15</u>		

Discharge Yes \_\_\_\_\_ No ✓

Comments OK Change  
A.C. Connor

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond Q13 has been inspected on the 18th day of July 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>X</u>	_____
Non Hazards	<u>X</u>	_____
No Erosion	<u>X</u>	_____
Vegetative Cover	<u>X</u>	_____
Water Level <u>2.9</u>		
Sediment Level <u>5.3'</u>		
Discharge	Yes _____	No <u>X</u>
Comments <u>M. L. Courser</u>	_____	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 013 has been inspected on the 25<sup>th</sup> day of July 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	_____	<u>x</u>
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>D</u>	
Sediment Level	<u>73"</u>	
Discharge	Yes _____	No <u>x</u>

Comments

Down No Change  
John L. Coenoc

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond Q13 has been inspected on the 1st day of August 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	_____	<u>No Change</u>
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>D</u>	_____
Sediment Level	<u>73"</u>	_____
Discharge	Yes _____	No <u>✓</u>
Comments	<u>See comments</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 8 day of August 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>X</u>	_____
Non Hazards	<u>X</u>	_____
No Erosion	<u>X</u>	<u>X</u>
Vegetative Cover	<u>X</u>	_____
Water Level <u>Driv</u>		
Sediment Level <u>8" <del>below</del> yellow showing</u>		
Discharge	Yes _____	No <u>X</u>
Comments <u>None - No Change</u> <u>Add Wet</u>	_____	

*[Handwritten Signature]*  
 8/11/94

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 11 day of August 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>      </u>
Non Hazards	<u>✓</u>	<u>      </u>
No Erosion	<u>      </u>	<u>✓</u>
Vegetative Cover	<u>✓</u>	<u>      </u>
Water Level	<u>6" - 30% Bottom Area</u>	
Sediment Level	<u>OK</u>	
Discharge	Yes <u>      </u>	No <u>X</u>

Comments Muskrat erosion on lower inlet channels - And Repair slip masonry  
1.4" deep in 25' inlet culvert obstructed

*[Handwritten Signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 15<sup>th</sup> day of Aug 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>      </u>
Non Hazards	<u>✓</u>	<u>      </u>
No Erosion	<u>✓</u>	<u>X</u>
Vegetative Cover	<u>✓</u>	<u>      </u>

Water Level 18"

Sediment Level UK

Discharge Yes        No X

Comments Severe erosion on West side work in progress - I will punch

*[Handwritten Signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 013 has been inspected on the 20 day of July 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>      </u>
Non Hazards	<u>✓</u>	<u>      </u>
No Erosion	<u>✓</u>	<u>  X  </u>
Vegetative Cover	<u>✓</u>	<u>      </u>
Water Level	<u>12"</u>	
Sediment Level	<u>23"</u>	
Discharge	Yes <u>      </u>	No <u>  X  </u>

Comments Work progressive on inlet and Compliance *[Signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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(4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 09 day of Aug. 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>L</u>	_____
Non Hazards	<u>L</u>	_____
No Erosion	<u>L</u>	<u>L</u>
Vegetative Cover	<u>L</u>	_____
Water Level	<u>6"</u>	
Sediment Level	<u>73"</u>	
Discharge	Yes _____	No <u>X</u>

Comments Concrete pond on solid - Down  
spout Area Repairs in Progress

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond Q13 has been inspected on the 6 day of Sept. 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>L</u>	_____
Non Hazards	<u>L</u>	_____
No Erosion	<u>L</u>	_____
Vegetative Cover	<u>L</u>	_____
Water Level	<u>62" 1/3</u>	
Sediment Level	<u>73"</u>	
Discharge	Yes _____	No <u>X</u>

Comments

Inspected by Todd Willey check  
log by M. P. Pearson (on return)

*M. P. Pearson*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0213 has been inspected on the 14 day of Sept. 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>dry (except small mud area)</u>	
Sediment Level	<u>53"</u>	
Discharge	Yes _____	No <u>✓</u>
Comments	<u>Work implemented.</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 19 day of Sept. 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>4" lower <math>\frac{1}{3}</math></u>	
Sediment Level	<u>&gt; 3"</u>	
Discharge	Yes _____	No <u>✓</u>
Comments:	<u>[Signature]</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 16<sup>th</sup> day of Sept 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>L</u>	_____
Non Hazards	<u>L</u>	_____
No Erosion	<u>L</u>	_____
Vegetative Cover	<u>L</u>	_____
Water Level <u>Dr.</u>		
Sediment Level <u>73"</u>		
Discharge	Yes _____	No <u>6</u>

Comments

[Signature]

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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Pond 0013 has been inspected on the end day of 01 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>L</u>	_____
Non Hazards	<u>L</u>	_____
No Erosion	<u>L</u>	_____
Vegetative Cover	<u>-</u>	_____
Water Level	<u>72" mid</u>	
Sediment Level	<u>73"</u>	
Discharge	Yes _____	No <u>L</u>

Comments \_\_\_\_\_  
APC

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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Pond 0013 has been inspected on the 10<sup>th</sup> day of October 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____

Water Level 4"

Sediment Level 73"

Discharge Yes \_\_\_\_\_ No X

Comments Heavy Rain - Sediment level upped end of Pond - Down spool.

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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(4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 18<sup>th</sup> day of Nov 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>        </u>
Non Hazards	<u>✓</u>	<u>        </u>
No Erosion	<u>✓</u>	<u>        </u>
Vegetative Cover	<u>✓</u>	<u>        </u>

Water Level 106 8"

Sediment Level 2.3"

Discharge Yes          No X

Comments Have Pump had 72 hr  
J. C. Connor

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 24 day of Oct 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>L</u>	_____
Non Hazards	<u>L</u>	_____
No Erosion	<u>L</u>	_____
Vegetative Cover	<u>L</u>	_____
Water Level <u>14"</u>		
Sediment Level <u>7UK</u>		
Discharge	Yes _____	No <u>X</u>
Comments	<u>[Signature]</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

(b) When a potentially hazardous condition develops, the person owning, operating or controlling the impounding structure shall immediately:

- (1) Take action to eliminate the potentially hazardous condition;
- (2) Notify the District Manager
- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 31 day of April 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>L</u>	_____
Non Hazards	<u>L</u>	_____
No Erosion	<u>L</u>	_____
Vegetative Cover	<u>L</u>	_____
Water Level <u>10"</u>		
Sediment Level <u>1/4"</u>		
Discharge	Yes _____	No <u>X</u>
Comments	<u>[Signature]</u>	

POND INSPECTION REPORT

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Pond 0013 has been inspected on the 14 day of Nov 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>(7.2" 1/3 Over)</u>	
Sediment Level	<u>uk</u>	
Discharge	Yes _____	No <u>X</u>
Comments	<u>Show (AM)</u>	

*[Handwritten Signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond CD13 has been inspected on the 7<sup>th</sup> day of Nov 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>Dry</u>	
Sediment Level	<u>73'</u>	
Discharge	Yes _____	No <u>✓</u>
Comments	<u>No Apparent Change - F. J. Benson</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 21 day of Nov 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	<u>✓</u>	_____
Water Level	<u>Snow Covered</u>	
Sediment Level	<u>Snow Covered</u>	
Discharge	Yes	No <u>✓</u>
Comments	<u>[Signature]</u>	

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (3) Notify and prepare to evacuate, if necessary, all coal miners from coal mine property which may be affected by the potentially hazardous condition; and
- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 00013 has been inspected on the 28 day of Nov 1974 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	_____
Non Hazards	<u>✓</u>	_____
No Erosion	<u>✓</u>	_____
Vegetative Cover	_____	_____
Water Level <u>✓</u>	_____	_____
Sediment Level <u>✓</u>	_____	_____
Discharge	Yes _____	No <u>✓</u>

Comments Area Covered  
ATD Lemore  
L. M. G.

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

(a) All water, sediment, or slurry impoundments which meet the requirements of 77.216(a) shall be examined by a qualified person designated by the person owning, operating or controlling the impounding structure at intervals not exceeding seven days for appearances of structural weakness and other hazardous conditions. All instruments shall be monitored at intervals not exceeding seven days by a qualified person designated by the person owning, operating, or controlling the impounding structure.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond PPB has been inspected on the 15 day of Dec 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>      </u>
Non Hazards	<u>✓</u>	<u>      </u>
No Erosion	<u>✓</u>	<u>✓</u>
Vegetative Cover	<u>✓</u>	<u>x</u>
Water Level	<u>75% of bottom now covered</u>	
Sediment Level	<u>11k</u>	
Discharge	Yes <u>      </u>	No <u>x</u>

Comments Light flow - 1 1/2" on embankment  
Areas - no change prior to this  
M. J. Cooney

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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- (4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 14 day of Dec 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>        </u>
Non Hazards	<u>✓</u>	<u>        </u>
No Erosion	<u>✓</u>	<u>        </u>
Vegetative Cover	<u>✓</u>	<u>        </u>
Water Level <u>        </u>		
Sediment Level <u>        </u>		
Discharge	Yes <u>        </u>	No <u>✓</u>

Comments         

*[Handwritten signature]*

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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(2) Notify the District Manager

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(4) Direct a qualified person to monitor all instruments and examine the structure at least once every eight hours, or more often as required by an authorized representative of the Secretary.

Pond 0013 has been inspected on the 21 day of Dec 1994 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>      </u>
Non Hazards	<u>✓</u>	<u>      </u>
No Erosion	<u>✓</u>	<u>      </u>
Vegetative Cover	<u>✓</u>	<u>      </u>
Water Level <u>      </u>		
Sediment Level <u>      </u>		
Discharge	Yes <u>      </u>	No <u>✓</u>

Comments None

[Handwritten Signature]

POND INSPECTION REPORT

77.216-3 Water, sediment, or slurry impoundments and impounding structures; inspection requirements; correction of hazards; program requirements.

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Pond 0013 has been inspected on the 29 day of Dec 19 94 as per the above regulations.

	Satisfactory	See Comment
Stability	<u>✓</u>	<u>        </u>
Non Hazards	<u>✓</u>	<u>        </u>
No Erosion	<u>✓</u>	<u>        </u>
Vegetative Cover	<u>✓</u>	<u>        </u>
Water Level <u>                </u>		
Sediment Level <u>        </u>		
Discharge	Yes <u>        </u>	No <u>✓</u>

Comments                 

*Paul R. Shoultz - JAC*

QUARTERLY INSPECTION REPORT

School House Canyon Refuse Disposal Site

AMAX Coal Company  
Castle Gate Mine  
P.O. Box 449  
Helper, UT 84526

Preparation Plant - MSHA ID #42-01517  
Refuse Pile - MSHA ID #42-1211-UT-9-0027

Date: 2/15/94

Approximate Top Elevation: 6350

Terrace No. \_\_\_\_\_

Slope of Face: > 50 %

Removal of Organic Matter: No Organic material  
in evidence.

Distribution and Mixing of Materials: Site was graded to  
promote drainage Sept. 93  
No Stone.

Overall Stability and Appearance: Good - no hot areas  
in evidence - no impoundments

Average In-Place Density

Average Rate of Compaction

Number of Tests Performed

No Change

Piezometer Levels

1st Terrace

North \_\_\_\_\_

Middle dry

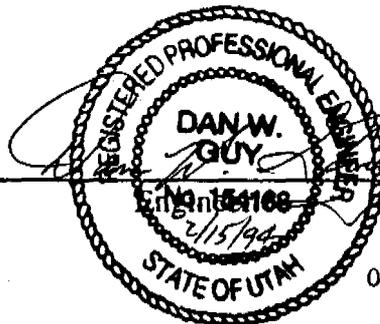
South \_\_\_\_\_

2nd Terrace

North \_\_\_\_\_

Middle \_\_\_\_\_

[Signature]  
Inspector



QUARTERLY INSPECTION REPORT

School House Canyon Refuse Disposal Site

AMAX Coal Company  
Castle Gate Mine  
P.O. Box 449  
Helper, UT 84526

Preparation Plant - MSHA ID #42-01517  
Refuse Pile - MSHA ID #42-1211-UT-9-0027

Date: 6/22/94

Approximate Top Elevation: 6400

Terrace No. 3

Slope of Face: Approx. 2:1 50 %

Removal of Organic Matter: N/A - NONE IN EVIDENCE.

Distribution and Mixing of Materials: NO CHANGE SINCE LAST INSPECTION.

Overall Stability and Appearance: O.K. - PILE WELL GRADED AND DRAINED. DITCHES O.K.

Average In-Place Density

Average Rate of Compaction

Number of Tests Performed

NO CHANGE

NO CHANGE

NO CHANGE

Piezometer Levels

1st Terrace

North \_\_\_\_\_

Middle DRY

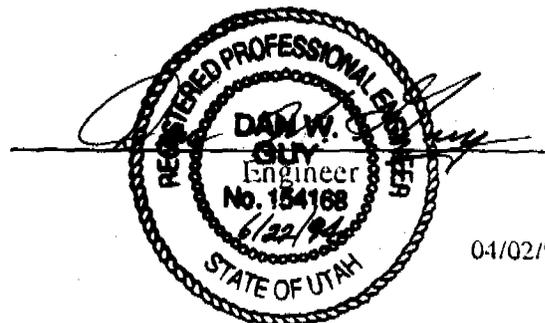
South \_\_\_\_\_

2nd Terrace

North \_\_\_\_\_

Middle DRY

Dan W. Guy  
Inspector



QUARTERLY INSPECTION REPORT

School House Canyon Refuse Disposal Site

AMAX Coal Company  
Castle Gate Mine  
P.O. Box 449  
Helper, UT 84526

Preparation Plant - MSHA ID #42-01517  
Refuse Pile - MSHA ID #42-1211-UT-9-0027

Date: 8/12/94

Approximate Top Elevation: 6400

Terrace No. 3

Slope of Face: app 2:1 50 %

Removal of Organic Matter: Some Salage belt was removed from the site - No Organic material on surface.

Distribution and Mixing of Materials: No Change - No New Material was added.

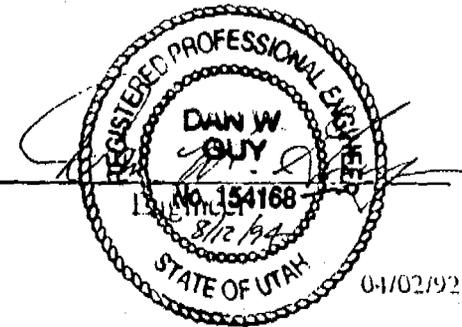
Overall Stability and Appearance: Good - No evidence of Sliding - Run well graded and diversion functional

Average In-Place Density	Average Rate of Compaction	Number of Tests Performed
<u>No Change</u>	<u>No Change</u>	<u>No Change</u>

Piezometer Levels

<u>1st Terrace</u>		
North _____	Middle <u>Dry</u>	South _____
<u>2nd Terrace</u>		
North _____	Middle <u>Dry</u>	

*[Handwritten Signature]*  
Inspector  
MSHA # 528599003



QUARTERLY INSPECTION REPORT

School House Canyon Refuse Disposal Site

AMAX Coal Company  
Castle Gate Mine  
P.O. Box 449  
Helper, UT 84526

Preparation Plant - MSHA ID #42-01517  
Refuse Pile - MSHA ID #42-1211-UT-9-0027

Date: 11/4/94

Approximate Top Elevation: 6400

Terrace No. 3

Slope of Face: Approx. 2:1 50%

Removal of Organic Matter: None Evident - No removal necessary.

Distribution and Mixing of Materials: No change since last inspection; however, a survey has been completed for addition of A.M.R.P. Project to place additional refuse on site.

Overall Stability and Appearance: O.K. - Pile graded and ditches cleaned. Main diversion looks O.K. - No change in previous erosion on diversion outlet.

Average In-Place Density

Average Rate of Compaction

Number of Tests Performed

No Change

No Change

No Change

Piezometer Levels

1st Terrace

North \_\_\_\_\_

Middle Dry

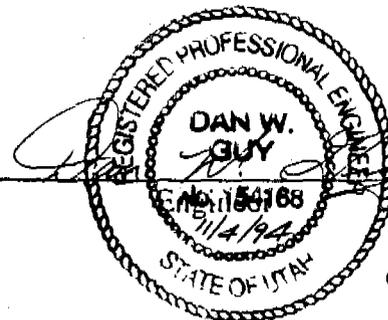
South \_\_\_\_\_

2nd Terrace

North \_\_\_\_\_

Middle Dry

Dan W. Guy  
Inspector



CASTLE GATE COAL COMPANY

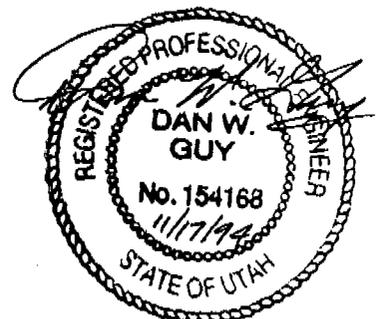
REFUSE PILE MONITORING

STATION	LOCATION	ELEVATION			CHANGE	
		11/92	08/93	11/94	Last	Acc.
RPC-1	NW of Pile	6391.52	6391.52	6391.52	(Control Pt.)	
RPC-2	SE of Pile	6357.48	6357.48	6357.48	(Control Pt.)	
RPM-1	W on Upper	6384.60	6384.57	6384.33	-0.24	-0.27
RPM-2	E on Upper	6381.63	6381.62	6381.23	-0.39	-0.40
RPM-3	E on Middle	6355.19	6355.13	6355.01	-0.12	-0.18
RPM-4	W on Middle	6351.37	6351.29	6351.16	-0.13	-0.21

Notes:

- (1) RPC-1 and RPC-2 are Control Points located on stable ground adjacent to the Refuse Pile.
- (2) RPM-1 and RPM-2 are Monitoring Points located on the face of the upper pile terrace.
- (3) RPM-3 and RPM-4 are Monitoring Points located on the face of the middle pile terrace.
- (4) All points were set in concrete and surveyed on 11/15/92.

11/17/94



CASTLE GATE COAL COMPANY  
 SUBSIDENCE MONITORING  
 BEAR CANYON

STATION	LOCATION	ELEVATION			CHANGE	
		5/81	10/93	11/94	Last	Acc.
TRP-1	Price Cyn.	6319.85	6319.85	6319.85	(Control Pt.)	
BZ-60	Bear Cyn.	6508.00	6508.00	6508.00	(Control Pt.)	
BZ-52	Bear Cyn.	6713.78	6713.78	6713.78	(Control Pt.)	
Sub-34	Bear Cyn.	6744.44	See Note	See Note	-	+0.06
Sub-38	Bear Cyn.	6700.59	6700.71	6700.67	-0.04	+0.08
Sub-63	Bear Cyn.	6546.54	6546.52	6546.44	-0.08	-0.10
Sub-64	Bear Cyn.	6406.63	6406.54	6406.49	-0.05	-0.14
Sub-71	Price Cyn.	6400.99	6401.15	6401.16	+0.01	+0.17

- Notes:
- (1) The above referenced points represent the only subsidence and control points located within Bear Canyon and subsequently verified by survey.
  - (2) Sub-34 is no longer visible due to large trees and has been eliminated.
  - (3) There were no fractures, slumps, rock falls or other subsidence-related effects noted within the canyon during this survey.

