

ACT/007/004 #2

Post-It™ Fax Note 7671		Date 8/21/97	# of pages 1
To Paul Baker		From J. Pappas	
Co./Dept.		Co.	
Phone #		Phone #	
Fax #		Fax #	

CASTLE GATE MINE POND INSPECTION REPORT

Row Number	Date	Potential Safety Hazards	Slope Stability	Erosion	Construction/Maintenance Performance Standards	Recommendations/Comments
015	6/19/97	None Visible	Good	None	Good	
014	↓	↓	↓	↓	↓	
013						
011						
012A						
012B						
RAW WATER						
THICKENER						
001						
002						
CLARIFIER						
FLUID W/DIRT NET USED						
007						
008						
020/010						6/20/97
009						To be backfilled this Fall

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. Paul 009 To be reclaimed this Fall

[Signature] 6/21/97
Inspector



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

cc: Pam

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

1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

May 2, 1997

TO: File

THRU: Daron Haddock, Permit Supervisor *DH*

FROM: Wayne H. Western, Senior Reclamation Specialist *WHW*

RE: 1996 Annual Report, AMAX Coal Holding Company, Castle Gate Mine, ACT/007/004, File #6, Carbon County, Utah

Summary

The Division determined that the 1996 annual report for Castle Gate Mine is adequate with respect to engineering issues.

Analysis

The three engineering issues in the annual report are:

- Subsidence
- Impoundments
- Refuse Piles

Subsidence

On October 10, 1996, Mr. Guy surveyed the control points and monitoring stations for Bear Canyon. He measured no elevation changes at the control points. Mr. Guy measured elevation changes at each monitoring station. The annual change in elevation at the monitoring stations varied from +0.15 feet to -0.36 feet. The elevation changes for all of the monitoring station are considered minor. Mr. Guy reported that "There were no fractures, slumps, rock falls or other subsidence-related effects noted within the canyon during the survey." The Division determined that the subsidence monitoring report is adequate and no subsidence issues require any additional action at this time.

1996 Annual Report
ACT/007/004
May 2, 1997
Page 2

Impoundments

Mr. Guy certified the impoundments at Hardscrabble Canyon and Castle Gate No. 1 Mine on December 31, 1996. The Permittee had reclaimed pond 007 in Hardscrabble Canyon and no stability or performance standard issues associated with the pond. Mr. Guy certified Pond 008, Pond 009 Upper and Pond 009 Lower all at Hardscrabble Canyon on December 31, 1996. He reported that the ponds were all stable and meeting the performance standards. On December 31, 1996, Mr. Guy certified Pond 010 at Castle Gate No. 1 Mine. He reported that the pond was stable and meeting the performance standards.

Refuse Piles

The Permittee did not submit the refuse pile report as part of the 1996 Castle Gate annual report. Instead the Permittee chooses to include the refuse report in only the Willow Creek annual report. The Division did review the 1996 annual report for the Schoolhouse Canyon refuse pile submitted with the Willow Creek annual report. Mr. Guy prepared the report and Mr. John Borla did all the inspection. In 1996, the Permittee did all required inspections, added new material as prescribed by the permit and determined that the pile is stable. The report meets the minimum.

Recommendation

The Division should accept the 1996 annual report for the Castle Gate Mine.

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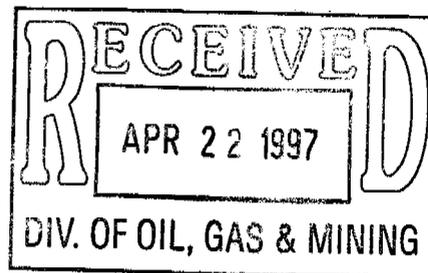


**CYPRUS PLATEAU
MINING CORPORATION**
A Cyprus Amax Company

Cyprus Plateau Mining Corporation
Post Office Drawer PMC
Price, Utah 84501
(801) 637-2875

April 21, 1997

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Attn: Pamela Grubaugh-Littig



Re: 1996 Annual Report

Dear Ms. Grubaugh-Littig:

ACT/003/024#6

Enclosed are two copies of AMAX Coal Company's Castle Gate Mine 1996 Annual Report. If you have any questions, please do not hesitate to contact me.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

Enclosure

File: ENV 2.5.2.25
Chrono: JP970403.ltr

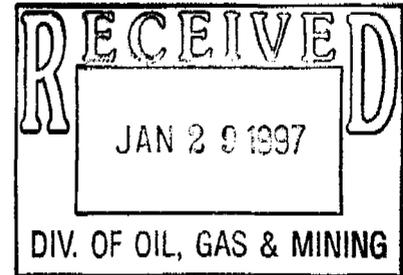


**CYPRUS PLATEAU
MINING CORPORATION**
A Cyprus Amax Company

Cyprus Plateau Mining Corporation
Post Office Drawer PMC
Price, Utah 84501
(801) 637-2875

January 25, 1997

Utah Coal Regulatory Program
Utah Department of Natural Resources
Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801



Attn: Pamela Grubaugh-Littig

ACT/007/004 #6

RE: FOURTH QUARTER 1996 REFUSE PILE CERTIFICATION AND BARN
CANYON DIVERSION CGD-5 SURVEY

Copy ACT/007/038 #6

Dear Ms. Littig,

Enclosed is a copy of the fourth quarter 1996 refuse pile certification and Barn Canyon diversion CGD-5 survey for the Cyprus Plateau Mining Company's Willow Creek Mine and the AMAX Coal Company's Castle Gate Mine permits.

Respectfully,

Ben Grimes
Sr. Staff Project Engineer

Enclosures

File: WCENV 2.5.2.19.5
Chron: BG970111

AMAX Coal Company

Quarterly Refuse Pile Certification
Fourth Quarter, 1996

I hereby certify that I am a registered professional engineer in the State of Utah. I certify that I have made an inspection of the coal processing refuse pile at AMAX Coal Company's Castle Gate Mine in Carbon County Utah. The refuse pile has been constructed and maintained as designed. There are no apparent areas of instability, structural weakness or other hazardous conditions. The piezometer monitoring wells on the first and second terraces are dry.



John Borla P.E. #172351

Date: 12-30-96



CASTLE GATE
BARN CANYON DIVERSION CGD-5
MONITORING POINTS

STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE					CHANGE	
	ORIG. 12/94	QUARTER 1 1995	QUARTER 2 1995	QUARTER 3 1995	QUARTER 4 1995	LAST	ACC
#1	2.68	2.69	2.70	2.69	2.66	+0.03	+0.02
#2	2.13	*1.97	2.00	1.96	1.95	+0.01	+0.18
#3	2.64	**2.40	2.40	2.40	2.36	+0.04	+0.04

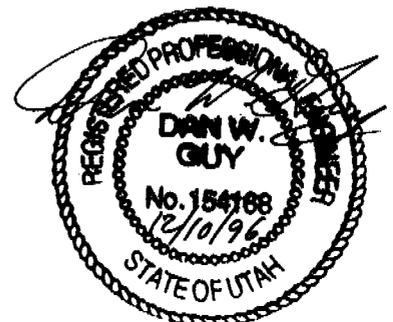
STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE				CHANGE	
	QUARTER 1 1996	QUARTER 2 1996	QUARTER 3 1996	QUARTER 4 1996	LAST	ACC
		06/28/96	09/26/96	12/10/96		
#1	2.66	2.64	2.55	2.55	0.00	0.13
#2	* 1.85	1.79	2.15	2.15	0.00	-0.02
#3	2.36	2.20	2.38	2.30	+0.08	+0.10

NOTE:

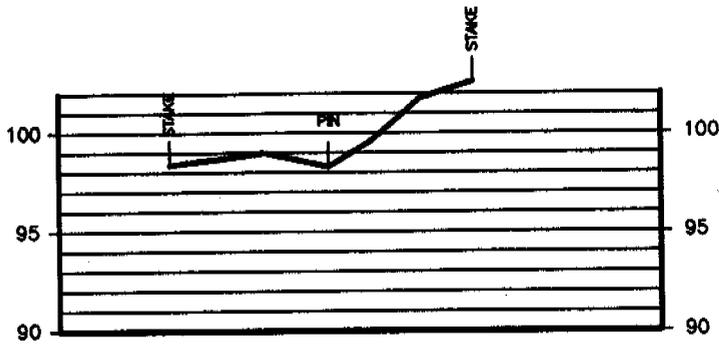
- (1) All stations were installed on 12/13/94.
- (2) Cross-sections will be taken annually.
- (3) Measurements from top of pin to the flowline will be taken quarterly.

* Increase due to Side Sluffage.

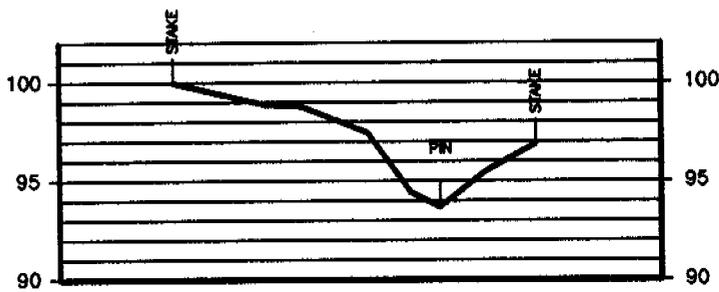
** Reset 03/29/95 - Originally in Frozen Ground.



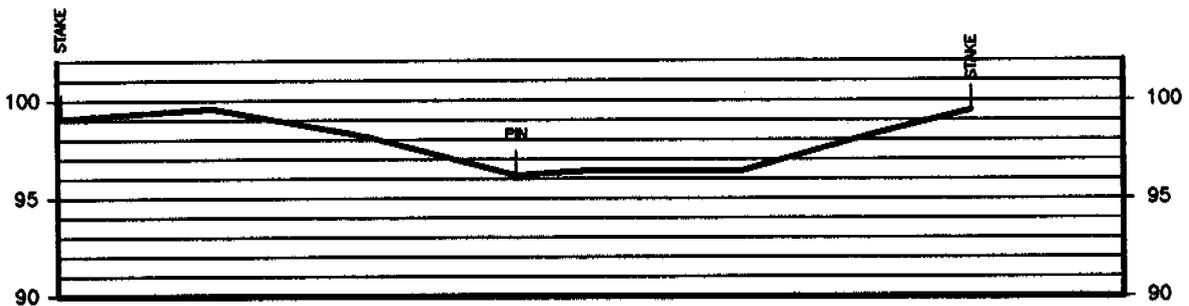
CASTLE GATE
DIVERSION CGD-5
MONITORING POINTS
CROSS-SECTIONS



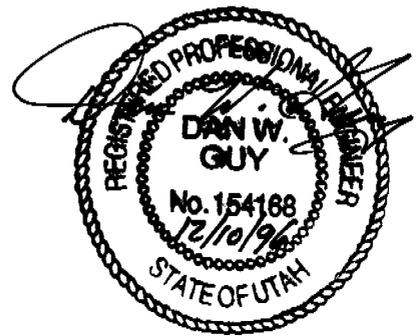
CROSS-SECTION #3



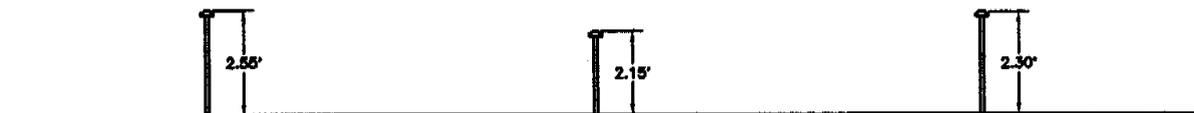
CROSS-SECTION #2



CROSS-SECTION #1



NOTE: (1) SECTION VIEW LOOKING UP FROM BARN CANYON.
(2) ELEVATIONS ARE RELATIVE.



CROSS-SECTION #1

CROSS-SECTION #2

CROSS-SECTION #3

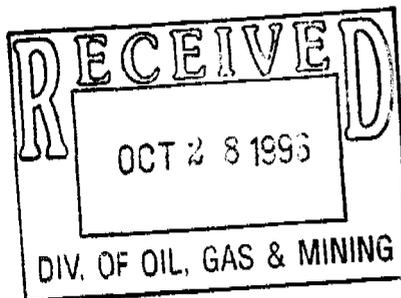


**CYPRUS PLATEAU
MINING CORPORATION**
A Cyprus Amax Company

Cyprus Plateau Mining Corporation
Post Office Drawer PMC
Price, Utah 84501
(801) 637-2875

October 23, 1996

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203



Attn: Pamela Grubaugh-Littig

Re: Third Quarter 1996 Refuse Pile Certification and Barn Canyon Diversion CGD-5
Survey

Dear Ms. Grubaugh-Littig:

ACT/007/004 #6

Route to Paul's file

Enclosed is a copy of the third quarter 1996 refuse pile certification and Barn Canyon
Diversion CGD-5 survey for AMAX Coal Company's Castle Gate Mine.

Sincerely,

Johnny Pappas
Sr. Environmental Engineer

Enclosure

Chrono: JP961008.ltr

AMAX Coal Company

**Quarterly Refuse Pile Certification
Third Quarter, 1996**

I hereby certify that I am a registered professional engineer in the State of Utah. I certify that I have made an inspection of the coal processing refuse pile at AMAX Coal Company's Castle Gate Mine in Carbon County Utah. The refuse pile has been constructed and maintained as designed. There are no apparent areas of instability, structural weakness or other hazardous conditions. The piezometer monitoring wells on the first and second terraces are dry.

John Borla Date: 10/21/96
John Borla P.E. #172351



CASTLE GATE
BARN CANYON DIVERSION CGD-5
MONITORING POINTS

STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE					CHANGE	
	ORIG. 12/94	QUARTER 1 1995	QUARTER 2 1995	QUARTER 3 1995	QUARTER 4 1995	LAST	ACC
#1	2.68	2.69	2.70	2.69	2.66	+0.03	+0.02
#2	2.13	*1.97	2.00	1.96	1.95	+0.01	+0.18
#3	2.64	**2.40	2.40	2.40	2.36	+0.04	+0.04

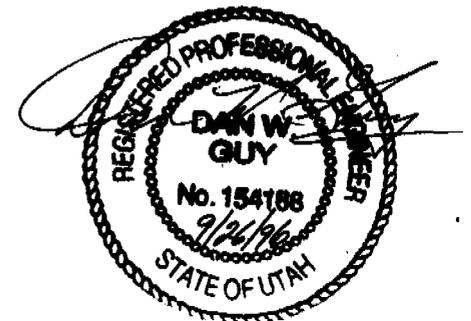
STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE				CHANGE	
	QUARTER 1 1996	QUARTER 2 1996 06/28/96	QUARTER 3 1996 09/26/96	QUARTER 4 1996	LAST	ACC
#1	2.66	2.64	2.55	N/A	0.09	0.13
#2	* 1.85	1.79	2.15	N/A	-0.36	-0.02
#3	2.36	2.20	2.38	N/A	-0.18	0.02

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.

* Increase due to Side Sluffage.

** Reset 03/29/95 - Originally in Frozen Ground.



Ray



Cyprus Plateau Mining Corporation
Post Office Drawer PMC
Price, Utah 84501
(801) 637-2875

1996

~~ACT/057/004~~
#2

July 25, 1996



Utah Coal Regulatory Program
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: Pamela Grubaugh-Littig

Re: Second Quarter 1996 Refuse Pile Certification and Barn Canyon Diversion CGD-5 Survey.

ACT/007/004 #6

Dear Ms. Grubaugh-Littig:

Route to Ken and Paul then file

Enclosed is a copy of the second quarter 1996 refuse pile certification and Barn Canyon Diversion CGD-5 survey for AMAX Coal Company's Castle Gate Mine.

Sincerely,

Johnny Pappas
Environmental Engineer

Enclosure

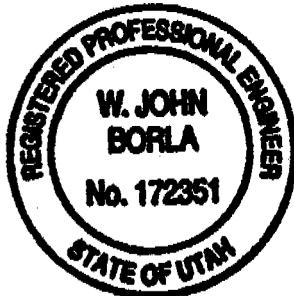
Chrono: JP960702.LTR

AMAX Coal Company

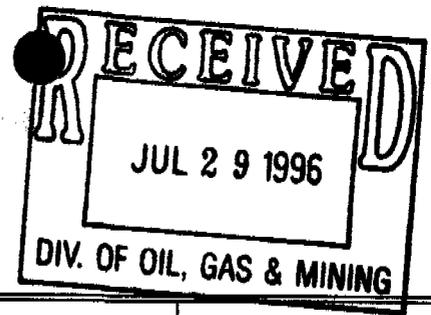
Quarterly Refuse Pile Certification
Second Quarter, 1996

I hereby certify that I am a registered professional engineer in the State of Utah. I certify that I have made an inspection of the coal processing refuse pile at AMAX Coal Company's Castle Gate Mine in Carbon County Utah. The refuse pile has been constructed and maintained as designed. There are no apparent areas of instability, structural weakness or other hazardous conditions. The piezometer monitoring wells on the first and second terraces are dry.

John Borla Date: 7/22/96
John Borla P.E. #172351



CASTLE GATE
BARN CANYON DIVERSION CGD-5
MONITORING POINTS



STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE					CHANGE	
	ORIG. 12/94	QUARTER 1 1995	QUARTER 2 1995	QUARTER 3 1995	QUARTER 4 1995	LAST	ACC
#1	2.68	2.69	2.70	2.69	2.66	+0.03	+0.02
#2	2.13	*1.97	2.00	1.96	1.95	+0.01	+0.18
#3	2.64	**2.40	2.40	2.40	2.36	+0.04	+0.04

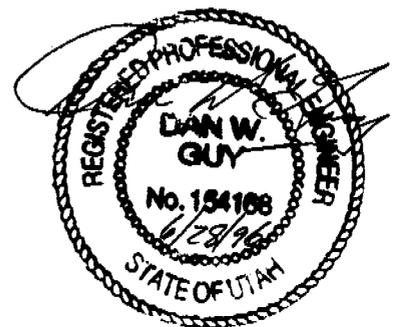
STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE				CHANGE	
	QUARTER 1 1996	QUARTER 2 1996 06/28/96	QUARTER 3 1996	QUARTER 4 1996	LAST (+)	ACC (+)
#1	2.66	2.64	N/A	N/A	+0.02	+0.04
#2	* 1.85	1.79	N/A	N/A	+0.06	+0.34
#3	2.36	2.20	N/A	N/A	+0.16	+0.20

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.

* Increase due to Side Sluffage.

** Reset 03/29/95 - Originally in Frozen Ground.





**CYPRUS PLATEAU
MINING CORPORATION**
A Cyprus Amax Company

RECEIVED
APR 4 1996
Cyprus Plateau Mining Corporation
Post Office Drawer PMC
Price, Utah 84501
(801) 637-2875
DIVISION OF OIL, GAS & MINING

April 2, 1996

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attn: Pamela Grubaugh-Littig

*Naron, then file
ACT/007/004
#6*

Re: First Quarter 1996 Refuse Pile Certification and Barn Canyon Diversion CGD-5
Survey

Dear Ms. Grubaugh-Littig:

Enclosed is a copy of the first quarter 1996 refuse pile certification and Barn Canyon
Diversion CGD-5 survey for AMAX Coal Company's Castle Gate Mine.

Sincerely,

Johnny Pappas
Environmental Engineer

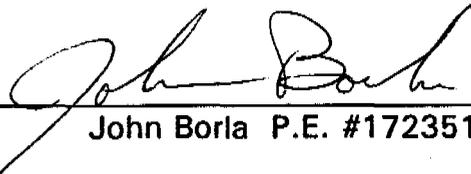
Enclosure

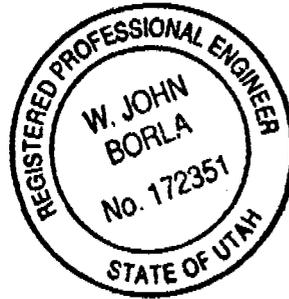
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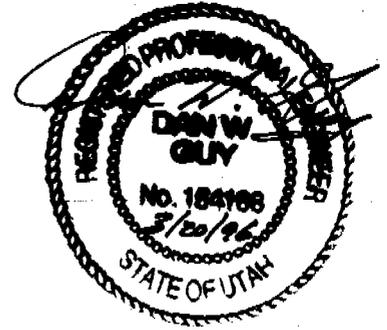
AMAX Coal Company

Quarterly Refuse Pile Certification
First Quarter, 1996

I hereby certify that I am a registered professional engineer in the State of Utah. I certify that I have made an inspection of the coal processing refuse pile at AMAX Coal Company's Castle Gate Mine in Carbon County Utah. The refuse pile has been constructed and maintained as designed. There are no apparent areas of instability, structural weakness or other hazardous conditions. The piezometer monitoring wells on the first and second terraces are dry.

 Date: 3/29/96
John Borla P.E. #172351





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

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	2.69	2.70	2.69	2.66	+0.03	+0.02
#2	*1.97	2.00	1.96	1.95	+0.01	+0.18
#3	**2.40	2.40	2.40	2.36	+0.04	+0.04

STATION	DISTANCE FROM TOP OF PIN TO FLOW LINE				CHANGE	
	QUARTER 1 1996	QUARTER 2 1996	QUARTER 3 1996	QUARTER 4 1996	LAST (+)	ACC (+)
#1	2.66	N/A	N/A	N/A	0.00	0.02
#2	* 1.85	N/A	N/A	N/A	0.10	0.28
#3	2.36	N/A	N/A	N/A	0.00	0.04

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.

* Increase due to Side Sluffage.

** Reset 03/29/95 - Originally in Frozen Ground.