

**Cyprus Plateau Mining  
Corporation  
Annual Report 1997**

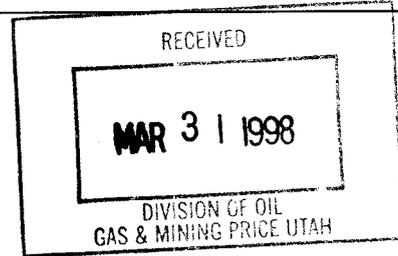
**Star Point Mine  
ACT/007/006 #6**



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

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

March 31, 1998



Utah Coal Regulatory Program  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Attention: Pamela Grubaugh-Littig

ACT/007/006 #6

RE: Submittal of Annual Report for 1997, Cyprus Plateau Mining Corporation, Star Point Mine, ACT/007/006, Folder #2, Carbon County, Utah

Dear Ms. Grubaugh-Littig:

Enclosed please find two copies of the aforementioned. Due to the way we assembled our annual report, we are unable to provide the information in the fashion requested by the Division. However those sections of the annual report that are part of Appendix B have been marked accordingly.

If you have any questions, please do not hesitate to contact me at (435) 472-4741.

Sincerely,

Johnny Pappas  
Sr. Environmental Engineer

Enclosures

File: ENV 2.6  
Chrono: JP980304.LTR

## GENERAL INFORMATION

1. Permit Number	ACT/007/006
2. Mine Name	STAR POINT MINES
3. Permittee Name	CYPRUS PLATEAU MINING CORPORATION
4. Operator Name (if other than Permittee)	
5. Permit Expiration Date	JANUARY 29, 2002
6. Company Representative, Title	JOHNNY PAPPAS, SR. ENVIRONMENTAL ENGINEER
7. Phone Number	(435) 472-4741
8. Fax Number	(435) 472-4782
9. Mailing Address	P.O. DRAWER 7007
	PRICE, UTAH 84501
10. Resident Agent, Title	C.T. CORPORATION SYSTEM
Mailing Address	50 WEST BROADWAY
	SALT LAKE CITY, UTAH 84101

## IDENTIFICATION OF OTHER PERMITS

Identify other permits which are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expires on
1. MSHA Mine ID(s)	42-00171	LEGAL IDENTITY	
2. MSHA Impoundment(s)	M/A		
3. NPDES/UPDES Permit(s) (water)	UT0023736	UPDES PERMIT	12/31/01
4. PSD (Air ) Permit(s)	DAQE-886-96	APPROVAL ORDER	
5.			
6.			

**CERTIFIED REPORTS**

List the certified inspection reports as required by the rules and under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX A to this Annual Report or currently ON FILE with the Division.

Certified Reports:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	Y E S	NO	ON FILE	
1. Excess Spoil Files		X				
2. Refuse Files	X				X	
3. Impoundments	X				X	
4.						
5.						

**REPORTING OF OTHER TECHNICAL DATA**

List other technical data and information as required under the approved plan which must be periodically submitted to the Division. Specify whether the information is included as APPENDIX B to this Annual Report or currently ON FILE with the Division.

Technical Data:	Reports Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	Y E S	NO	ON FILE	
1. Climatological Data		X				
2. Subsidence Monitoring Data	X		X			
3. Vegetation Monitoring Data	X		X			
4. Soils Monitoring Data		X				
5. Water Monitoring Data	X				X	
First Quarter Report	X				X	
Second Quarter Report	X				X	
Third Quarter Report	X				X	
Fourth Quarter Report	X				X	
6. Geological/Geophysical Data		X				
7. Engineering Data		X				
8. Other Data						
9. Hydrology Compilation			X			
10. Macroinvertebrate Report	X			X		NOT RECEIVED FROM USFS

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**LEGAL, FINANCIAL, COMPLIANCE AND RELATED INFORMATION**

Changes in administration or corporate structure can often bring about necessary changes to information found in the mining and reclamation plan. The Division is requesting that each permittee review and update the legal, financial, compliance and related information in the plan as part of the Annual Report. Provide the Department of Commerce, Annual Report of Officers, or other equivalent information as necessary to ensure that the information provided in the plan is current. Provide any other changes as necessary regarding land ownership, lease acquisitions, legal results from appeals of violations, or other changes as necessary to update information required in the mining and reclamation plan. Include any certified financial statements, audits or worksheets which may be required to meet bonding requirements. Specify whether the information is currently ON FILE with the Division or included as APPENDIX C to this Annual Report.

Legal/Financial Data:	Report Required?		INCLUDED or ON FILE w/DOGM?			Comments
	YES	NO	Y E S	NO	ON FILE	
1. Department of Commerce, Annual Report of Officers			X			
2. Other						

**MINE MAPS**

Copies of mine maps, current and up-to-date through at least December 31, 1997, are to be provided to the Division as APPENDIX D to this Annual Report in accordance with the requirements of R645-301-525.270. These map copies shall be made in accordance with 30 CFR 75.1200, as required by MSHA. Upon request, mine maps shall be kept confidential by the Division.

Map Number(s)	Map Title / Description	Confidential?

**OTHER INFORMATION**

Please provide any comments or further information to be included as part of the Annual Report. Any other attachments are to be provided as APPENDIX E to this Annual Report.

Additional attachments to this report?  No  Yes




# **APPENDIX A**

Certified Reports

Excess Spoil Piles  
Refuse Piles  
Impoundments

as required under R645-301-514

## **CONTENTS**

**ALL REPORTS ON FILE WITH THE DIVISION**

## **APPENDIX B**

Reporting of Technical Data

including monitoring data, reports, maps, and other information  
as required under the approved plan  
or as required by the Division

in accordance with the requirements of R645-301-130 and R645-301-140.

### **CONTENTS**

**VEGETATION REPORT  
SUBSIDENSE REPORT  
1997 HYDROLOGY REPORT**

**CYPRUS PLATEAU MINING CORPORATION**

**STAR POINT MINES**

**1997 ANNUAL RECLAMATION**

**MONITORING REPORT**

**PREPARED FOR**

**CYPRUS PLATEAU MINING CORPORATION  
P.O. DRAWER PMC  
PRICE, UTAH 84501**

**PREPARED BY**

**IME  
P.O. BOX 270  
YAMPA, CO 80483**

**24 March 1997**

## **INTRODUCTION**

This annual reclamation monitoring report is submitted by Cyprus-Plateau Mining Corporation, hereafter referred to as Plateau, in accordance with their approved Mining and Reclamation Plan, which requires that all previously reclaimed sites be monitored according to the monitoring schedule found on page 300 - 153 of the approved Mining and Reclamation Plan, to determine the relative degree of revegetation success of these reclaimed areas. The Permit requires that the results and interpretation of these data be submitted to the Utah Division of Oil, Gas and Mining, (Division), each year in the form of an annual reclamation monitoring report. This report contains the results of data collected between October 7 - 8, 1997 for the areas which required monitoring in 1997. These data were collected by Kent Crofts and Micah Halling. The reclamation monitoring program conducted in 1997 is consistent with previously collected data and with Plateau's presently approved Permit.

Plateau has monitored the status of revegetation on reclaimed lands continuously since 1981, the results of which have been previously submitted on an annual basis to the Division. Due to the voluminous nature of these data, it is impracticable to provide a complete summary of the revegetation trends for each reclaimed site evaluated in the present report. Therefore, in order to completely understand the history and results of the prior reclamation monitoring, the reviewer is referred to these previous submittals.

### **SAMPLING METHODOLOGIES**

The data collected in the 1997, utilized identical sampling methodologies and data analysis procedures used previously and which have been approved by the Division in earlier submittals. Parameters sampled in 1997 included only total plant cover. Given the similarity of previous sampling methodologies, Plateau believes that a comparison of the 1997 data with formerly collected data is possible to establish trends regarding the successfulness of prior revegetation efforts.

## Cover

Due to the flatness of the slopes in the areas monitored in this evaluation, plant cover was monitored using an inclined metal ten point frame. Fifty meter transects were randomly located in the areas to be sampled and along each transect, ten randomly located along each transect line were evaluated. All foliar plant cover less than one meter in height was sampled. At each sample point, the observation was recorded by individual plant species, or whether litter, rock, bare ground, lichens or cryptogams were encountered. Plant material that had dried prior sampling (such as annuals), but which was a product of the 1997 growing season, was counted as plant cover. Litter was defined as that plant material which had been dead for at least one year prior to sampling. The five quadrats which were read along each transect were summarized into a single observation which was used for subsequent statistical analyses. To the extent that the site configuration allowed, all transects were randomly located with respect to orientation and intervals between transects by assigning random numbers to the major compass headings while the interval between each transect was determined using a similar random number. These random numbers were determined in the field by use of a hand held calculator.

## Woody Plant Densities

Woody plant densities are not determined on the Temporary Reclamation Areas.

## Production

Forage production was not collected on these reclaimed sites, since they are all temporary reclamation which will be disturbed at the time final reclamation of the surface facilities area is undertaken.

## Data Analysis

All of the field data were initially summarized in the field to determine plot values. As is pointed out on page 300-154 of the Mining and Reclamation Plan, interim reclamation monitoring was not conducted to the required level of sample adequacy.

However, the data collected were subjected to the sample adequacy equations recommended by the Division. Total plant cover sample adequacy calculations were made in the field prior to leaving each sample site. Final sample adequacy calculations were prepared in the laboratory following final completion of the data summary. Sample adequacy calculations on production samples were initially based on green weights and were determined either in the field or at the completion of each sampling day.

Revegetation Success Criteria

Since no Reference Areas were formally sampled in connection with this sampling effort, comparisons regarding revegetation success on each individual reclaimed area with its appropriated Reference Area were made using data collected previously from these sites. Therefore, comparisons of the apparent degree of revegetation success on each reclaimed site were compared with the original permit data collected from these sites during either 1981 or 1983. A summary of the 1981-3 Reference Area Plant Cover values is presented below:

<u>Reference Area</u>	<u>% Total Plant Cover</u>
Mountain Shrub	45.3
Sagebrush	42.1
Douglas Fir	15.1
Mountain Grassland	43.6
Pinyon Juniper - West	12.8
Pinyon Juniper - East	32.5
Saltbush	17.5
Corner Canyon Aspen	87.6

**RESULTS AND DISCUSSION**

As shown in Table 356.100a, Revegetation Monitoring Schedule, in the 1997 monitoring effort, only the 1982 Temporary Reclamation Seedings were scheduled to be sampled. No Permanent Reclamation Seedings required sampling in 1997. Examination of the previously prepared reclamation maps, such as are found in the 1985 Annual Reclamation Report, document that the 1982 Temporary Reclamation Seedings correspond to the Subsoil Stockpile and the Topsoil Stockpile. The acreage of these two

reclamation seedings is 5.50 acres and 0.01 acres, respectively.

### 1982 Reclamation Seedings

A total of two sites temporary reclamation areas reclaimed in 1982 were sampled in the 1997 monitoring effort. These included the Subsoil Stockpile located to the northeast of the coal preparation plant area and the Topsoil Stockpile located to the north of the conveyor transfer building on the north side of the coal refuse pile.

## **RESULTS**

1982 Temporary Reclamation Seeding - Subsoil Stockpile. Data was collected from the two areas shown on the 1985 Reclamation Map and presented as a single unit. The results of these data are summarized in the following tables and narrative. The results obtained from these sampling efforts are presented in Table 1, Percent Plant Cover, 1982 Temporary Reclamation Seeding - Subsoil Stockpile documents that the average plant cover on this site was 37.13 percent).

1982 Temporary Reclamation Seeding - Topsoil Stockpile. Sampling of this temporary reclaimed site resulted in an average total plant cover value of 46.10 (Table 2, Percent Plant Cover, 1982 Temporary Reclamation Seeding - Topsoil Stockpile).

## **CONCLUSIONS**

The reclaimed areas sampled at the Star Point Mines in 1997 monitoring effort included the 1982 Temporary Reclamation Seedings. All of these areas correspond to interim reclamation. These sites were not sampled with the object of obtaining final bond release, or of satisfying the sample adequacy requirements, only to document reclamation trends and determine the apparent degree of revegetation success from these sites.

The 1982 Reclamation Seedings correspond to the Pinyon - Juniper Plant

Community Type. Using the summary of the reference area plant cover presented previously, the relative degree of revegetation success for these reclaimed sites can be determined. The average plant cover on the Pinyon Juniper - West Facing Reference Area was originally found to be 12.8 percent, while that for the East Facing Reference Area was 32.5 percent. The average plant cover for the Pinyon Juniper Reference Areas equaled 22.65 percent. Based upon the 1997 monitoring data, the average plant cover of the Subsoil Stockpile was determined to equal 37.13 while the Topsoil Stockpile was found to have an average plant cover of 46.10 percent.

When these areas were last monitored in 1992, the average plant cover on these two sites was found to equal 23.60 and 36.14 percent, respectively. These data suggest that in the past five years these reclamation seedings have continued to increase in the amount of total plant cover found on these sites are continuing to mature into a more successional stable plant communities.

These preliminary data suggest that if these sites were being evaluated for final bond release based on the parameter of total plant cover, that both of these sites would appear to satisfy this criteria of final bond release.

Table 1,  
Percent Total Plant Cover,  
1981 Temporary Reclamation Seeding -  
Subsoil Stockpile.

SPECIES	% COVER	% COMPOSITION	FREQUENCY
<b>Grasses</b>			
Crested Wheatgrass	14.25	38.36	100
Western Wheatgrass	3.88	10.44	100
Intermediate Wheatgrass	1.50	4.04	38
Smooth Bromegrass	1.50	4.04	50
Orchardgrass	0.50	1.35	13
Kentucky Bluegrass	0.13	0.34	13
<b>Subtotal</b>	21.76	58.61	-
<b>Forbs</b>			
Alfalfa	13.50	36.36	100
Broadleaf Plantain	0.25	0.67	13
Yellow Sweetclover	0.13	0.34	13
Knotweed	0.13	0.34	13
Curlycup Gumweed	0.13	0.34	13
Common Dandelion	0.13	0.34	13
<b>Subtotal</b>	14.27	38.43	-
<b>Shrubs</b>			
Fourwing Saltbush	0.75	2.02	13
Rubber Rabbitbrush	0.38	1.01	25
<b>Subtotal</b>	1.13	3.04	-
TOTAL PLANT COVER	37.13	100.00	-
BARE	51.50	-	-
LITTER	7.50	-	-
ROCK	3.88	-	-
N = 8; MEAN = 37.13; SD = 7.64; Nm 90/10 = 11.46			

Table 2,  
Percent Total Plant Cover,  
1982 Temporary Reclamation Seeding -  
Topsoil Stockpile.

SPECIES	% COVER	% COMPOSITION	FREQUENCY
<b>Grasses</b>			
Cheatgrass Brome	25.3	54.88	50
Western Wheatgrass	5.6	12.15	90
Intermediate Wheatgrass	1.9	4.12	30
Russian Wildrye	1.6	3.47	50
Indian Ricegrass	1.0	2.17	40
Smooth Bromegrass	0.5	1.08	20
Crested Wheatgrass	0.3	0.65	10
Orchardgrass	0.1	0.22	10
Kentucky Bluegrass	0.1	0.22	10
<b>Subtotal</b>	36.4	78.96	-
<b>Forbs</b>			
Russian Thistle	3.5	7.59	30
Alfalfa	1.2	2.60	30
Musk-mustard	0.3	0.65	20
Broadleaf Plantain	0.1	0.22	10
Eaton Daisy	0.1	0.22	10
Prickly Lettuce	0.1	0.22	10
<b>Subtotal</b>	5.3	11.50	-
<b>Shrubs</b>			
Fourwing Saltbush	4.4	9.54	60
<b>Subtotal</b>	4.4	9.54	-
TOTAL PLANT COVER	46.1	100.00	-
CRYPTOGRAMS	1.1	-	-
BARE	26.0	-	-
LITTER	14.7	-	-
ROCK	12.1	-	-
N = 10; MEAN = 46.10; SD = 28.04; Nm 90/10 = 100.11			

## **APPENDIX C**

**Legal, Financial, Compliance and Related Information**

**Annual Report of Officers  
as submitted to the Utah Department of Commerce  
and other changes in ownership and control information  
as required under R645-301-110.**

### **CONTENTS**

**ANNUAL REPORT OF OFFICERS  
OWNERSHIP AND CONTROL INFORMATION**



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

REPORTS: 9100 East Mineral Circle  
Englewood, Colorado 80112

List of Officers and Directors

OFFICERS

J.M. DeMichiei  
G.J. Malys  
N.P. Moros  
P.C. Wolf  
F.J. Kane  
P.J. Panzarino  
K.H. Sieber  
F.J. Wood  
J.D. Flemming  
S.J. Fetherhuff  
M.W. Kegley  
G.A. Walker  
D.E. Huffman  
S.E. Chetlin

President  
Sr. Vice President  
Sr. Vice President  
Sr. Vice President, General Counsel and Secretary  
Vice President and Treasurer  
Vice President, Sales and Marketing  
Vice President  
Vice President and Controller  
Director of Tax  
Assistant Secretary  
Assistant Secretary  
Assistant Secretary  
Assistant Secretary  
Assistant Secretary

DIRECTORS

G.R. Spindler  
G.J. Malys  
P.C. Wolf

**CYPRUS AMAX MINERALS COMPANY**

(formerly Amoco Minerals Company; name changed to Cyprus Minerals Company 5/24/85;  
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

**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 and Treasurer	F. S. Hakimi	January 1, 1998
Assistant Treasurer	J. M. Coyner	March 1, 1998
Vice President and Controller	J. Taraba	October 31, 1988
Vice President, Engineering and Development	R. J. Hickson	November 20, 1994
Director of Tax	J. D. Flemming	May 7, 1992
Assistant Secretary	D. E. Huffman	July 31, 1995
<b>DIRECTORS:</b>	M. H. Ward (Chairman)	May 14, 1992/November 15, 1995
	A. Born	November 13, 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
	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 Amoco Minerals Company; name changed to Cyprus Minerals Company 5/24/85;  
name changed to Cyprus Amax Minerals Company pursuant to the merger with Amax Inc. on November 15, 1993)

**Resignations (since November 1993):**

<u>Title</u>	<u>Name</u>	<u>Date Resigned</u>
Senior Vice President, General Counsel, and Secretary	K. Loughrey	November 12, 1993
Chairman of the Board	M. H. Ward	November 15, 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
Vice President, Human Resources	G. H. Peppard	June 30, 1995
Assistant Secretary	K. J. Gormley	July 31, 1995
Co-Chairman of the Board	M. H. Ward	November 15, 1995
Co-Chairman of the Board	A. Born	November 15, 1995
Vice Chairman of the Board	A. Born	May 1, 1996
Director	J. C. Huntington, Jr.	May 7, 1997
Vice President, Investor Relations, and Treasurer	F. J. Kane	December 31, 1997
Assistant Treasurer	F. S. Hakimi	December 31, 1997
Director	M. A. Morphy	February 19, 1998

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:** Texas

**Ownership - Percentage:** Cyprus Amax Minerals Company - 100%; November 15, 1993  
9100 East Mineral Circle, Englewood, Colorado 80112-3299

**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		April 11, 1994
Senior Vice President, General Counsel and Secretary	Philip C. Wolf		November 15, 1993
Vice President and Treasurer	Farokh S. Hakimi		January 1, 1998
Vice President and Controller	John Taraba		November 15, 1993
Assistant Treasurer	J. M. Coyner		March 1, 1998
Director of Tax	J. David Flemming		November 15, 1993
Assistant Secretary	Dale E. Huffman		April 11, 1994
Assistant Secretary	Sharon J. Fetherhuff		July 31, 1995
<b>DIRECTORS:</b>	Gerald J. Malys		November 15, 1993
	Philip C. Wolf		November 15, 1993

AMAX ENERGY INC.

Resignations (since November 1993):

<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. Feeny		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
Assistant Secretary	Kathleen J. Gormley		July 31, 1995
Vice President and Treasurer	F. J. Kane		December 31, 1997

**CYPRUS AMAX COAL COMPANY**  
 (Assets transferred from the former Cyprus Amax Coal Company 1/1/96;  
 (formerly Cyprus Amax Coal Holding Company; name change effective 7/25/96)

**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 November 30, 1995  
 Existence Perpetual

**Qualified to Do Business In:** Colorado

**Ownership - Percentage:** Cyprus Amax Coal Company - 100%; November 30, 1995  
 Transferred to Amax Energy Inc. - 100%; July 18, 1996  
 9100 East Mineral Circle, Englewood, Colorado 80112-3299

**IRS Identification Number:** 84-1324805

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security #</u>	<u>Date Assumed Office</u>
President	Garold R. Spindler		November 30, 1995
Senior Vice President	Gerald J. Malys		November 30, 1995
Senior Vice President, General Counsel, and Secretary	Philip C. Wolf		November 30, 1995
Senior Vice President, Development	Richard D. Mills		November 30, 1995
Senior Vice President, Sales and Marketing	Nicholas P. Moros		November 30, 1995
Senior Vice President, Operations	John M. DeMichiei		April 1, 1996
Senior Vice President, Operations	Randall J. Scott		November 30, 1995
Vice President and Treasurer	Farokh S. Hakimi		January 1, 1998
Vice President and Controller	Frank J. Wood		November 30, 1995
Vice President	Chris L. Crowl		November 30, 1995
Assistant Treasurer	J. M. Coyner		March 1, 1998
Director of Tax	J. David Flemming		November 30, 1995
Assistant Secretary	Sharon J. Fetherhuff		November 30, 1995
Assistant Secretary	Greg A. Walker		November 30, 1995
Assistant Secretary	Morris W. Kegley		November 30, 1995
Assistant Secretary	Dale E. Huffman		November 30, 1995
Assistant Secretary	Susan E. Chetlin		November 30, 1995
<b>DIRECTORS:</b>	Garold R. Spindler		November 30, 1995
	Gerald J. Malys		November 30, 1995
	Philip C. Wolf		November 30, 1995

**CYPRUS AMAX COAL COMPANY**  
(Assets transferred from the former Cyprus Amax Coal Company 1/1/96;  
(formerly Cyprus Amax Coal Holding Company; name change effective 7/25/96)

Resignations (since incorporation):

<u>Title</u>	<u>Name</u>	<u>Social Security No.</u>	<u>Date Resigned</u>
Vice President, Allied Resources	Peter J. Bethell		January 8, 1996
Senior Vice President, Eastern Operations	W. Mark Hart		April 1, 1996
Vice President, Allied Resources (elected 1/8/96)	Charles E. Zabrosky		April 25, 1996
Vice President, International Business Development	Vincent J. Calarco, Jr.		June 17, 1996
Vice President and Treasurer	Francis J. Kane		December 31, 1997
Assistant Treasurer	Farokh S. Hakimi		December 31, 1997
Senior Vice President, Operations	Kevin S. Crutchfield		December 31, 1997

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

**Principal Operating Office:** P.O. Box Drawer PMC  
 Price, Utah 84501

**Telephone:** 801/637-2875

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

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

**Ownership - Percentage:** Cyprus Amax Coal Company-85%; Sept. 30, 1997  
 Mitsubishi Development Pty Ltd.-12%; Sept. 30, 1997  
 Mitsubishi International Corp.-3%; Sept. 30, 1997

**IRS Identification Number:** 95-3761213

**OFFICERS:**

<u>Title</u>	<u>Name</u>	<u>Social Security #</u>	<u>Date Assumed Office</u>
President	John M. DeMichiei		February 3, 1997
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 Treasurer	Farokh S. Hakimi		January 1, 1998
Vice President and Contoller	Frank J. Wood		December 20, 1993
Vice President, Sales and Marketing	Patrick J. Panzarino		May 22, 1996
Assistant Treasurer	J. M. Coyner		March 1, 1998
Director of Tax	J. David Flemming		April 6, 1992
Assistant Secretary	Sharon J. Fetherhuff		July 31, 1995
Assistant Secretary	Greg A. Walker		December 20, 1993
Assistant Secretary	Morris W. Kegley		December 20, 1993
Assistant Secretary	Dale E. Huffman		February 1, 1994
Assistant Secretary	Susan E. Chetlin		April 3, 1995
<b>DIRECTORS:</b>	Gerald J. Malys		August 1, 1989
	Philip C. Wolf		December 31, 1993
	J. M. DeMichiei		September 30, 1997
	N. P. Moros		September 30, 1997
	K. Itadani	Japanese	September 30, 1997
	K. Kinoshita	Japanese	September 30, 1997

Resignations (since November 1993):

<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
Vice President, Labor, Safety and and Government Relations	Chris L. Crowl		July 31, 1995
Assistant Secretary	Kathleen J. Gormley		July 31, 1995
Vice President and General Manager	Keith H. Sieber		February 15, 1996
Vice President, Sales and Marketing	George E. Vajda		May 22, 1996
President	Randall J. Scott		February 3, 1997
Vice President and General Manager	Allen P. Childs		February 3, 1997
Director	Garold R. Spindler		Sept. 30, 1997
Vice President	Keith H. Sieber		October 17, 1997
Vice President and Treasurer	Francis J. Kane		December 31, 1997
Assistant Treasurer	Farokh S. Hakimi		December 31, 1997

## **APPENDIX D**

Mine Maps

as required under R645-301-525.270.

### **CONTENTS**

**MAPS W-4 AND W-5 SHOWING MINING FOR 1997 ARE IN SUBSIDENCE REPORT**

## **APPENDIX E**

Other Information

in accordance with the requirements of R645-301 and R645-302.

### **CONTENTS**

**NONE**