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**WYOMING STATE GEOLOGICAL SURVEY**

**Gary B. Glass, State Geologist**

**A REVIEW OF WYOMING'S COAL MINES  
AND MARKETS: 1994**

**by**

**P.D. Vogler, L.L. Larsen, and K.T. Mehring**

**Coal Report No. 95-1**

**1995**

**Laramie, Wyoming**

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**P.D. Vogler<sup>1</sup>, L.L. Larsen<sup>1</sup>, and K.T. Mehring<sup>2</sup>**

**<sup>1</sup>Wyoming State Geological Survey**

**<sup>2</sup>PEED, Inc., Lincoln Nebraska**

**1995**

**Laramie, Wyoming**

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## **ACKNOWLEDGMENTS**

The authors would like to thank the following entities for their assistance in preparing this publication. The Department of Environmental Quality, Land Quality and Air Quality Divisions were of great help. In particular, Bernard Dailey of the Air Quality Division and Rick Chancellor, Lou Harmon, Ramona Christensen and Stacey Bowen of the Land Quality Division were all assets. Donald Stauffenberg and his staff at the State Inspector of Mines Office in Rock Springs also contributed substantially. Finally, the authors thank all of the engineers, geologists and technicians at the mines who verified the data. Without their help, this publication would not be timely or accurate.

## Introduction

This publication is an assimilation of public data on Wyoming's coal mines and steam coal markets for the year 1994. The data reported here has been gathered from many different State, Federal and local agencies both in Wyoming and abroad. Due to this fact, it is the hope of the authors that this publication will serve as the starting point for many inquirers and even experienced professionals who deal with data on Wyoming's coal mines.

Data relevant to each of the mines is presented in the Wyoming Coal Mine Directory, the first section of this publication. Basic mine data (phone numbers, addresses, etc.), as well more specific data such as mine stratigraphy, delivered coal quality, methods of mining, 1994 production and capacity, historical production, and permit boundaries are included in this section. Items that will appear in future issues of this publication will include cross sections, isopach and structure maps, isochem maps on parameters such as % sulfur, Btu/lb, %ash, and coal petrographic sample information.

Data on Wyoming's steam coal market is presented in the second section of this publication entitled the Wyoming Steam Coal Market Directory. Data presented here includes a listing of all steam coal deliveries from Wyoming mines to utility plants. Items such as delivered coal quality, as well energy generation cost, delivered cost and contract type are also illustrated. Analysis of rail capacity, market capacity, steam generating plant specifications and utilization strategies will be discussed in future issues of this publication.

## 1994 Wyoming Mine Directory

As mentioned above, data for the mine directory was obtained from a number of different sources. Basic mine information was obtained from the mines themselves. Mining methods, coal and overburden ranges, permitted acreage, permitted remaining mineable reserves, recovery factors, and permit boundaries were all obtained from the State Permit to Mine Applications on file in the Land Quality Division (LQD), Office of the Department of Environmental Quality (DEQ) in Cheyenne. This data was also verified and/or superseded by comments made from the mine staffs. For this reason, the authors feel that this data is the most current information to date published on Wyoming's coal mines.

The delivered coal quality data was obtained from the Federal Energy Regulatory Commission (FERC) Form 423 reports that are prepared monthly. The annual quality averages reported are weighted by tonnage delivered, and reflect those values shown in the 1994 Wyoming Steam Coal Market Directory in this publication. Delivered coal quality data that does not reflect the FERC numbers were superseded by input obtained from the mines. Information obtained on 1994 coal mine production and employment, as well historical coal production data was obtained from the State Mine Inspectors Office in Rock Springs. Air Quality permit data was obtained from the Air Quality Division (AQD), Office of the Department of Environmental Quality (DEQ) in Cheyenne.

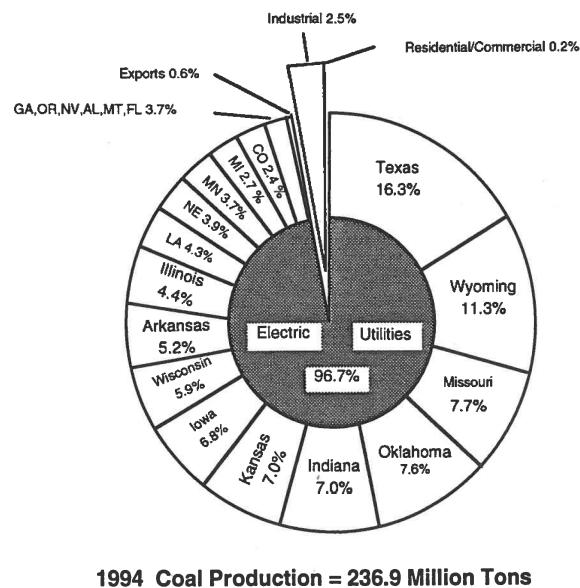
## 1994 Wyoming Steam Coal Market Directory

A review of Wyoming's coal market's has shown some startling results. While the State delivered nominal quantities of coal to many states outside its core market (mainly 15 states in the Midwest) in 1993, 1994 marked a year where core producers accounted for over 77% of the increase in coal deliveries. Each of these core states averaged a 1.2 million ton increase in consumption per state in 1994 (Table 1, Figure 1, Figure 2). This trend will continue as more plants in the core state consumer area are switching to Powder River Basin and other Wyoming coals (Table 1).

Notable delivery increases occurred in Missouri, Indiana, Illinois and Georgia (Table 1, Figure 1). Indiana and Illinois, prominent coal producers just 10 years ago are now the 5th and 10th largest customers of Wyoming coal, respectively. Georgia's large delivery increase is due to Plant Scherer, a jointly owned utility near Macon, increasing its burn rate of western coal. At least 3 new plants in Missouri started burning Powder River Basin coal in 1994, which contributed to this state being the 3rd largest customer of Wyoming coal last year.

## References Cited

- 1 Wyoming State Inspector of Mines, 1995, Annual Report of the State Inspector of Mines of Wyoming for the Year Ending December 31, 1994, p 18-25.
- 2 Energy Information Administration, 1995, Quarterly Coal Report, October-December 1994, DOE/EIA-0121 (94/4Q), Table 37, p 65-69. (Data derived from FERC Form 423).
- 3 Energy Information Administration, 1995, Quarterly Coal Report, October-December 1994, DOE/EIA-0121 (94/4Q), Table 7, p 18-20. (Data derived from EIA Form 6.)



*Wyoming State Geological Survey, Coal Section, July , 1995*

Figure 1. Utilization of Wyoming coal in 1994 in percent<sup>2</sup>. Industrial, residential, and commercial usages are not broken down by their destination<sup>3</sup>. The 1994 Production from the Wyoming State Inspector of Mines<sup>1</sup>.

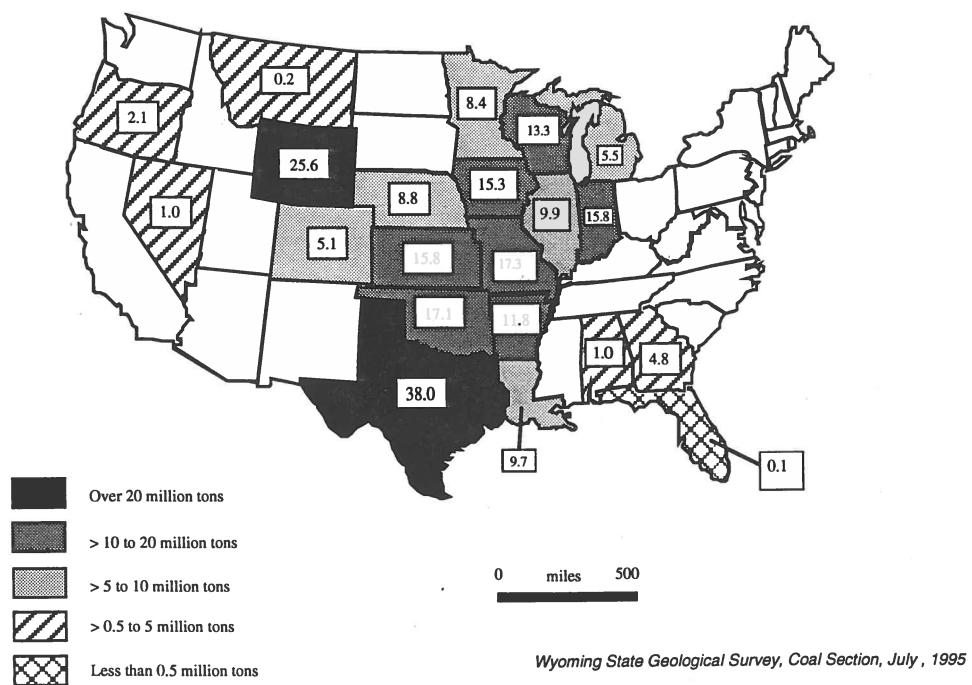


Figure 2. Distribution of Wyoming coal sales to electric generating plants in 1994 in millions of tons<sup>2</sup>.

Table 1. Summary of 1993-1994 Wyoming Coal Production and Distribution in millions of tons.

1994 Rank	Delivery State	1993 Delivery Tonnage	1994 Delivery Tonnage	Percent Difference	Summary of Wyoming Production and Percentage Used for Various Purposes
1	Texas	37,002,000	38,027,000	2.77%	227,826,000 Electrical Plants
2	Wyoming	23,580,000	25,624,000	8.67%	0 Coke Plants
3	<b>Missouri</b>	<b>11,690,000</b>	<b>17,308,000</b>	<b>48.06%</b>	<b>5,829,000 Industrial Plants</b>
4	Oklahoma	16,399,000	17,079,000	4.15%	362,000 Residential/Commercial Use
5	Indiana	12,510,000	15,772,000	26.08%	1,524,000 Exports
6	Kansas	15,855,000	15,762,000	-0.59%	
7	Iowa	14,840,000	15,345,000	3.40%	
8	Wisconsin	12,351,000	13,332,000	7.94%	
9	Arkansas	10,754,000	11,847,000	10.16%	
10	Illinois	7,509,000	9,927,000	32.20%	96.7% Power Plants
11	Louisiana	9,970,000	9,734,000	-2.37%	0.0% Coke Plants
12	Nebraska	8,696,000	8,835,000	2.5%	2.5% Industrial Plants
13	Minnesota	7,829,000	8,382,000	7.06%	0.2% Residential/Commercial Use
14	Michigan	4,589,000	5,497,000	19.79%	0.6% Exports
15	Colorado	5,467,000	5,126,000	-6.24%	
16	Georgia	700,000	4,831,000	590.14%	
17	Oregon	1,199,000	2,123,000	77.06%	
18	Nevada	754,000	1,012,000	34.22%	
19	Alabama	0	238,000		
20	Montana	0	119,000		
21	Florida	0	118,000		
22	North Dakota	5,000	0	-100.00%	
23	Massachusetts	7,000	0	-100.00%	
24	Kentucky	320,000	0	-100.00%	
	Total Reported	<b>202,026,000</b> <sup>2</sup>	<b>226,038,000</b> <sup>2</sup>	<b>11.89%</b>	
	Total Unreported	<b>2,847,000</b> <sup>3</sup>	<b>1,788,000</b> <sup>3</sup>	<b>-37.20%</b>	
	Total	<b>204,873,000</b> <sup>3</sup>	<b>227,826,000</b> <sup>3</sup>	<b>11.20%</b>	

\* The data for total coal production does not agree with the Wyoming State Inspector of Mine's total coal production data.  
*Wyoming State Geological Survey, Coal Section, July 1995*

# **1994 WYOMING COAL MINE DIRECTORY**

Btu/lb = British Thermal Unit per pound

ft = feet

st = short ton

SO<sub>2</sub> (lbs)/mmBtu = pounds of sulfur dioxide per million British Thermal Units

## **ACTIVE MINES IN THE POWDER RIVER COALFIELD**

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# ANTELOPE

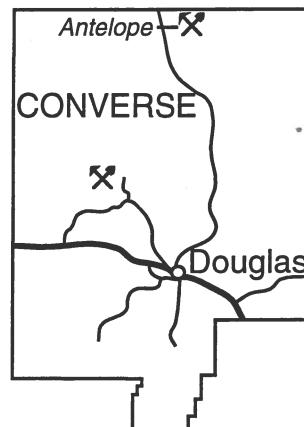
**Operated by:**  
Kennecott Energy, Incorporated  
**Owned by:**  
Kennecott Minerals

**Mine Start-up Date:** 1985

**Mine Manager**  
Jerry Tystad  
**Mailing Address**  
Drawer 1450  
Douglas, WY 82633  
**Phone:** (307) - 464-1133

**EXPLANATION**

- County Seat
- Interstate Highway
- US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Converse  
**Mine Type:** Surface  
**Number of Acres Permitted:** 7,535

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,821	8,835	8,826
% Ash:	5.43	5.28	5.21
% Sulfur:	0.32	0.31	0.28
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.72	0.70	0.64

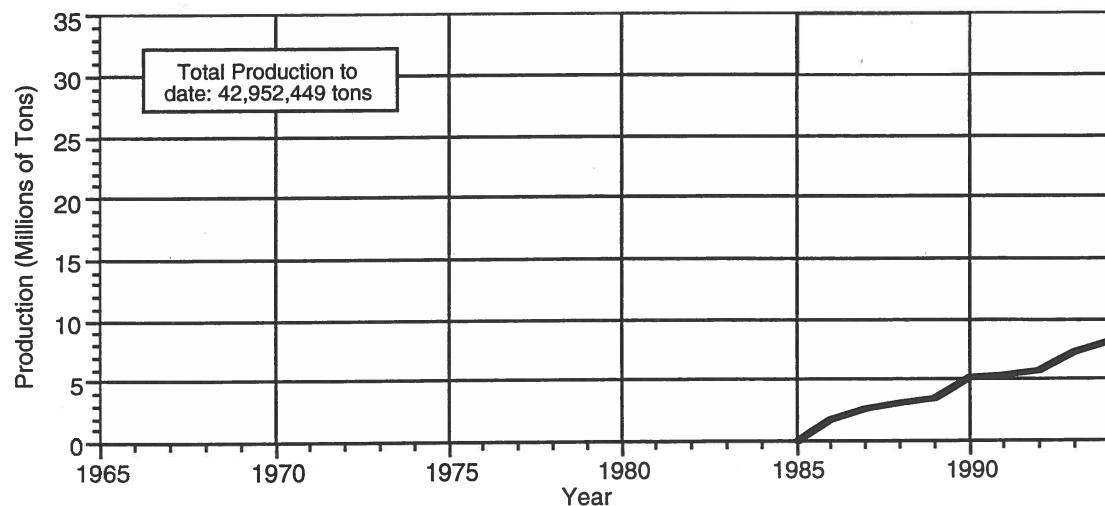
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dragline, Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 70 ft\*  
**Average Overburden Thickness :** 84 ft  
**Range in Overburden Thickness :** 20-200 ft

**Permitted Remaining Mineable Reserves:** 211.8 million st  
**Average Recovery Factor:** 95.0%  
**1994 Production:** 8,258,590 st  
**1994 Air Quality Limits:** 12 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

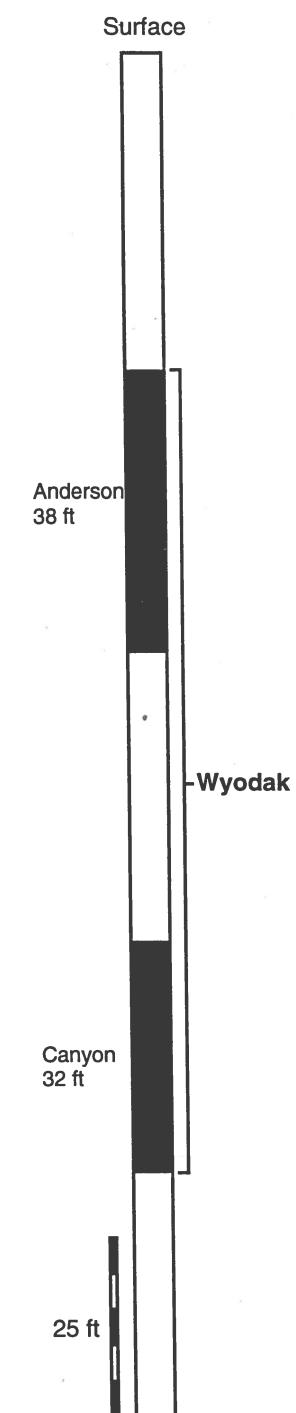
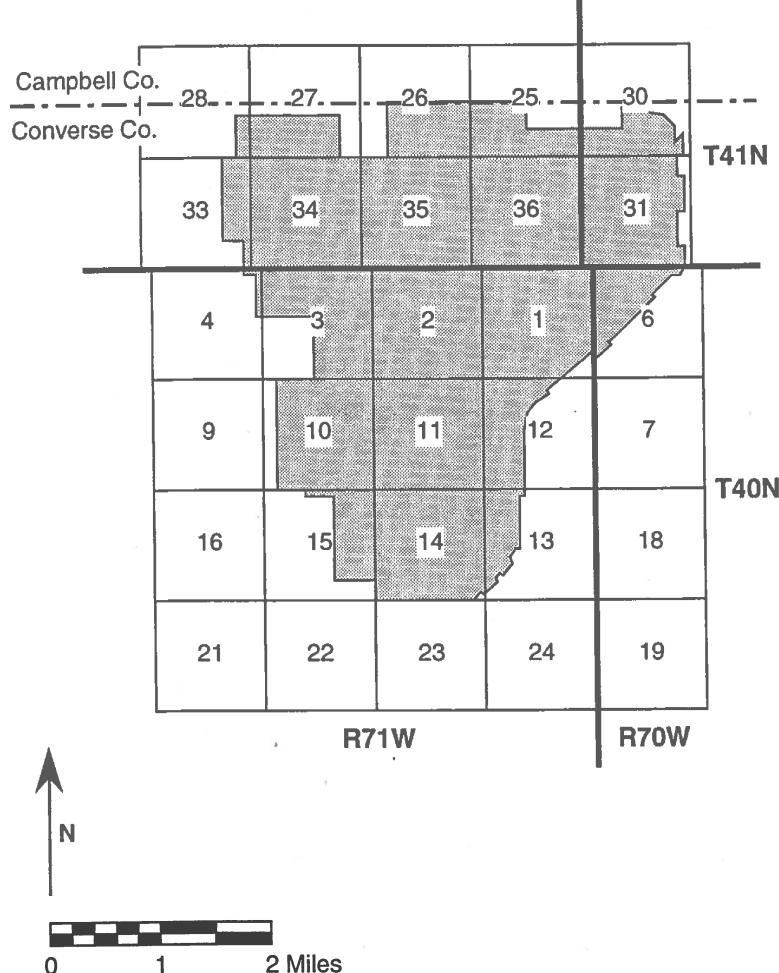
# ANTELOPE

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

**Age:** Tertiary/Paleocene  
**Formation:** Fort Union  
**Member:** Tongue River  
**Zone/Bed Name(s):** Wyodak (Anderson-Canyon, Wyodak-Anderson)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 119

# BELLE AYR

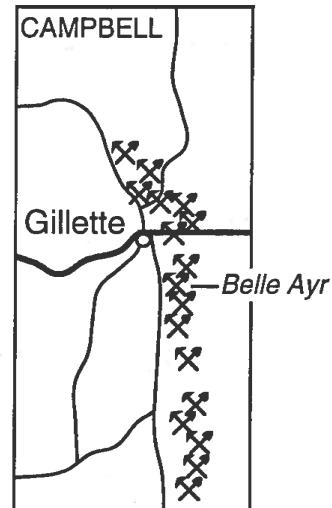
**Operated by:**  
AMAX Coal West, Incorporated  
**Owned by:**  
Cyprus-AMAX Coal Company

**Mine Start-up Date:** 1972

**Mine Manager**  
Thomas J. Lien  
**Mailing Address**  
P. O. Box 3039  
Gillette, WY 82717-3039  
**Phone:** (307) - 687-3400

**EXPLANATION**

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 11,872

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,514	8,512	8,534
% Ash:	4.73	4.60	4.53
% Sulfur:	0.30	0.28	0.29
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.70	0.66	0.68

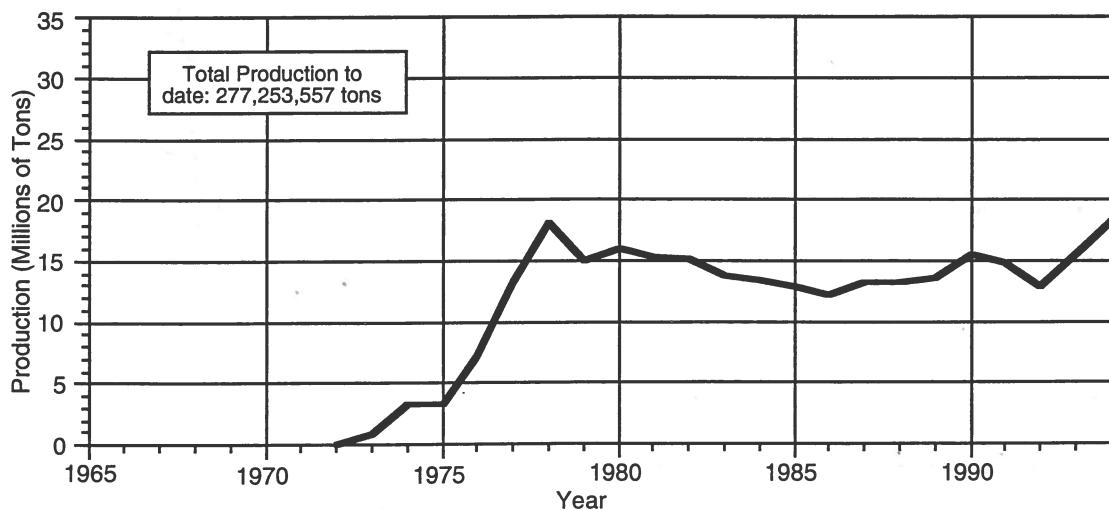
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 72 ft  
**Average Overburden Thickness :** 250 ft  
**Range in Overburden Thickness :** 15-350 ft

**Permitted Remaining Mineable Reserves:** 445.0 million st  
**Average Recovery Factor:** 94.5%  
**1994 Production:** 18,361,868 st  
**1994 Air Quality Limits:** 25 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# BELLE AYR

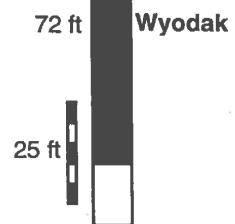
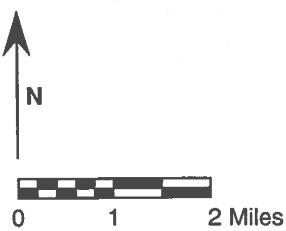
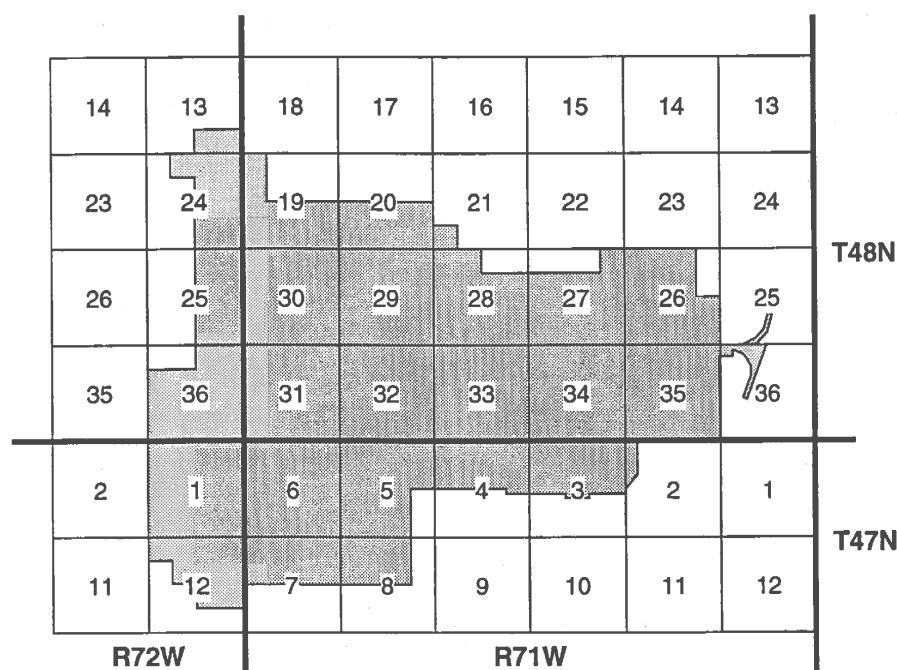
## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Roland-Smith, Wyodak-Anderson, Anderson-Canyon)

Surface

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 228

# BIG HORN

**Operated by:**  
Big Horn Coal Company

**Owned by:**  
Kiewit Mining Group

**Mine Start-up Date:** 1943

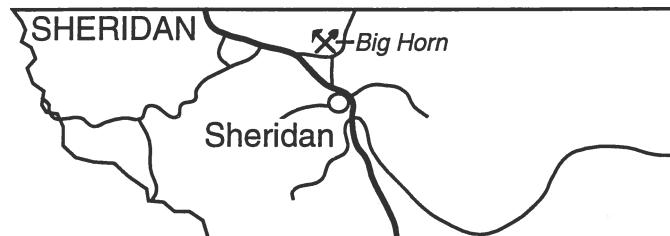
**Mine Manager**

John Rueb

**Mailing Address**

P.O. Box 724  
Sheridan, WY 82801

**Phone:** (307) - 674-6415



**EXPLANATION**

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine

## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Sheridan  
**Mine Type:** Surface  
**Number of Acres Permitted:** 3,671

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
Btu/lb:	1992	1993	1994
% Ash:	4.30	4.30	4.30
% Sulfur:	0.52	0.52	0.52
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.12	1.12	1.12

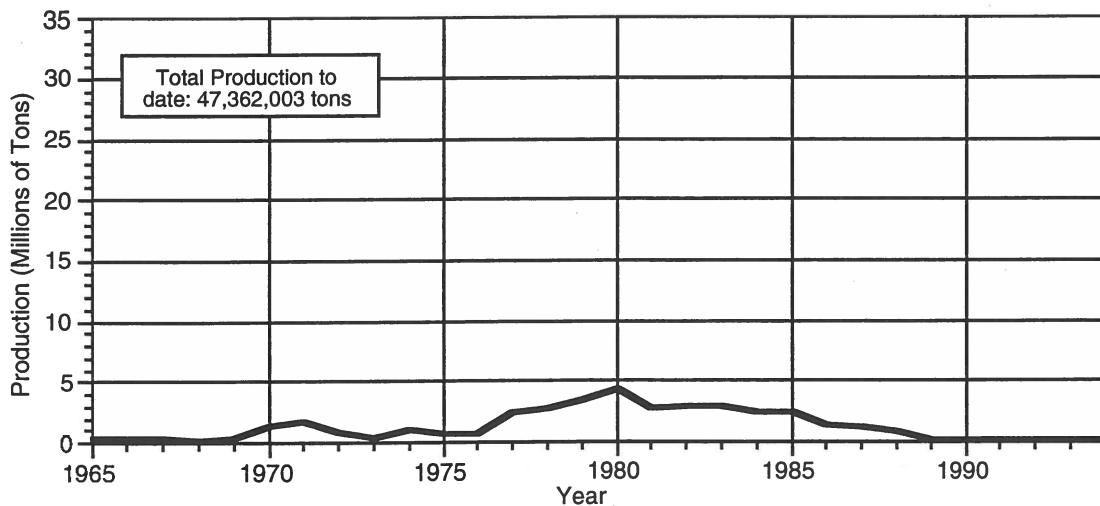
## MINING METHODS, PRODUCTION, AND RESERVES

**Method of Mining**

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 65\*  
**Average Overburden Thickness :** 130  
**Range in Overburden Thickness :** 60-275

**Permitted Remaining Mineable Reserves:** 10.9 million  
**Average Recovery Factor:** 90.0%  
**1994 Production:** 100,733  
**1994 Air Quality Limits:** 4.6 million

## PRODUCTION HISTORY



\* Denotes data for more than one seam

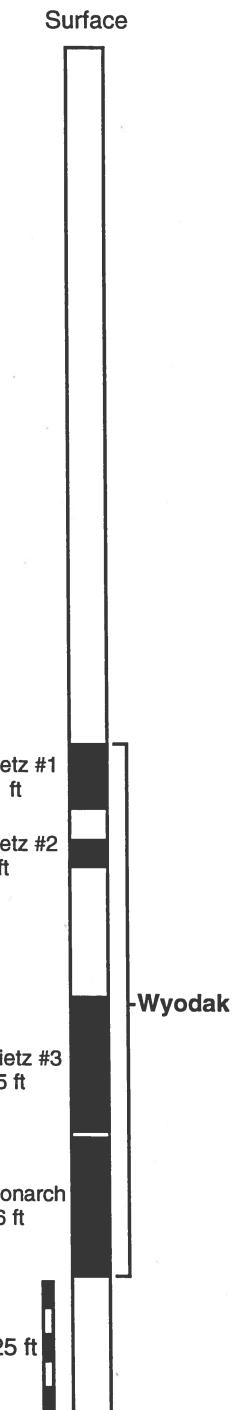
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# BIG HORN

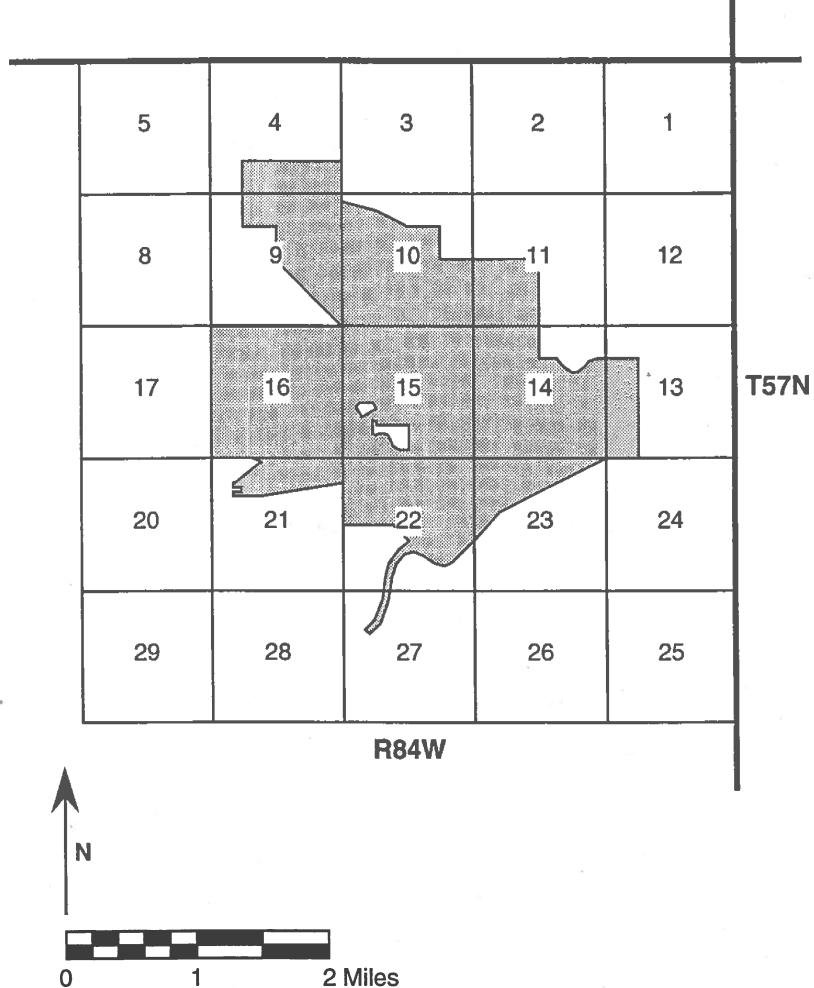
## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

**Age:** Tertiary/Paleocene  
**Formation:** Fort Union  
**Member:** Tongue River  
**Zone/Bed Name(s):** Wyodak (Dietz #1, Dietz #2, Dietz #3, Monarch)



### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 17

# BLACK THUNDER

## Operated by:

Thunder Basin Coal Company

## Owned by:

ARCO Coal Company

Mine Start-up Date: 1977

## Mine Manager

T. P. Walsh

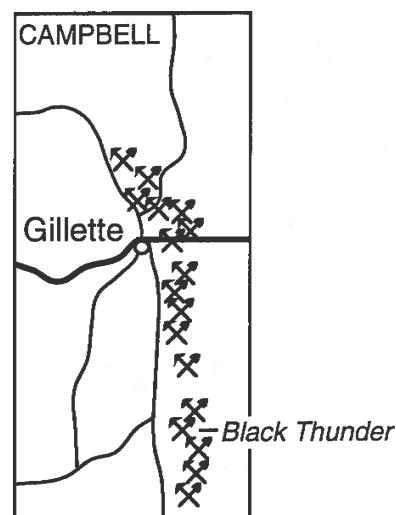
## Mailing Address

P. O. Box 406  
Wright, WY 82732

Phone: (307) - 939-1300

## EXPLANATION

- County Seat
- Interstate Highway
- US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

Coal Field: Powder River

County: Campbell

Mine Type: Surface

Number of Acres Permitted: 13,217

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,781	8,768	8,733
% Ash:	5.02	5.07	5.25
% Sulfur:	0.37	0.33	0.33
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.84	0.75	0.75

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

Overburden: Dragline, Truck and Shovel

Coal: Truck and Shovel

Average Bed Thickness : 70 ft

Average Overburden Thickness : 140 ft

Range in Overburden Thickness : 15-240 ft

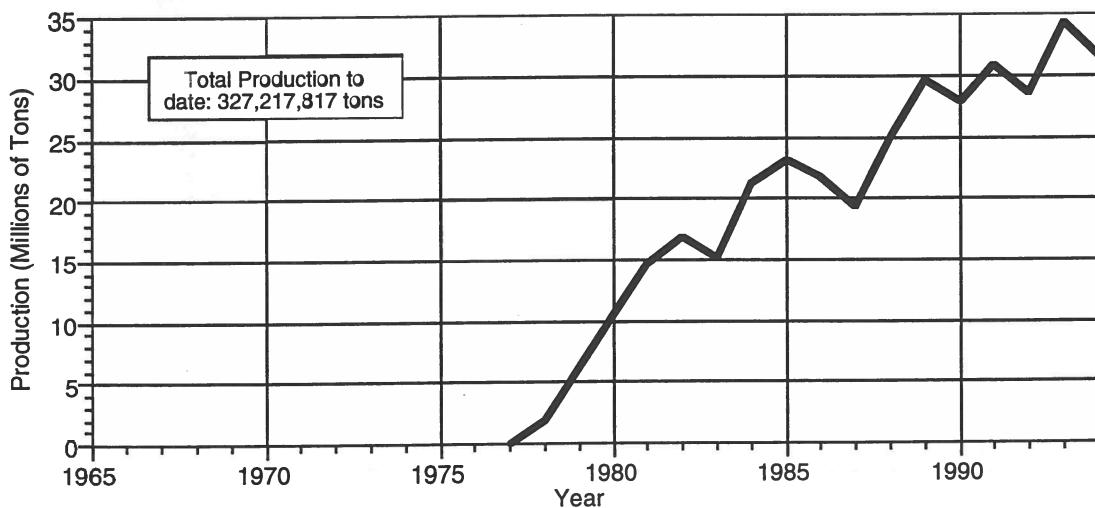
Permitted Remaining Mineable Reserves: 828.7 million st

Average Recovery Factor: 95.0%

1994 Production: 31,616,222 st

1994 Air Quality Limits: 44 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# BLACK THUNDER

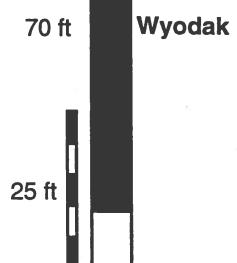
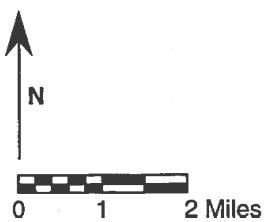
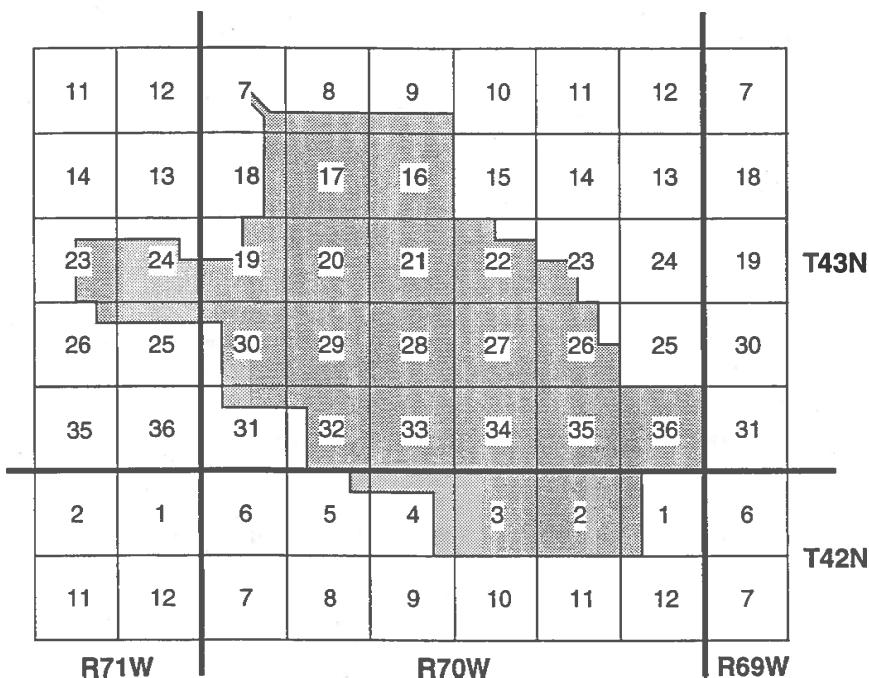
## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Roland, Wyodak-Anderson)

Surface

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 458

# BUCKSKIN

**Operated by:**  
Triton Coal Company

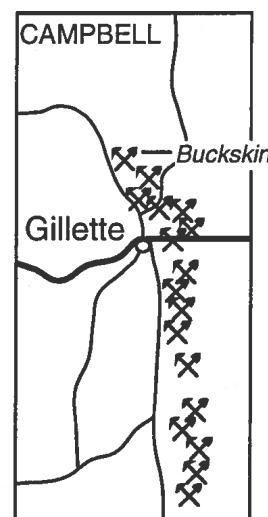
**Owned by:**  
Zeigler Coal Company

**Mine Start-up Date:** 1980

**Mine Manager**  
Kelly Sanders  
**Mailing Address**  
P. O. Box 3027  
Gillette, WY 82717-3027  
**Phone:** (307) - 682-9144

**EXPLANATION**

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 5,446

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
Btu/lb:	1992	1993	1994
% Ash:	5.29	5.42	5.25
% Sulfur:	0.46	0.48	0.41
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.10	1.14	0.97

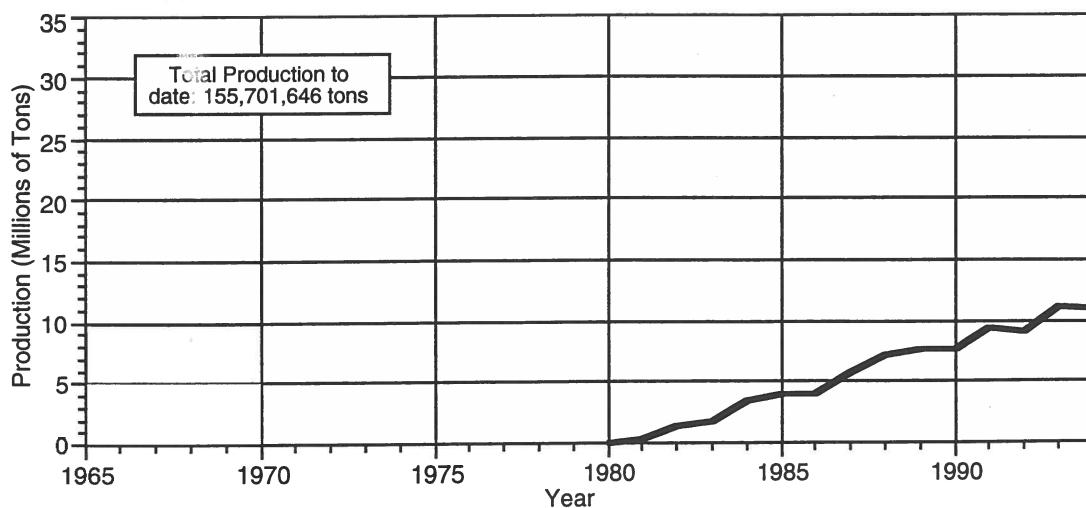
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 104 ft\*  
**Average Overburden Thickness :** 140 ft  
**Range in Overburden Thickness :** 20-215 ft

**Permitted Remaining Mineable Reserves:** 357.2 million st  
**Average Recovery Factor:** 91.0%  
**1994 Production:** 10,955,839 st  
**1994 Air Quality Limits:** 24 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

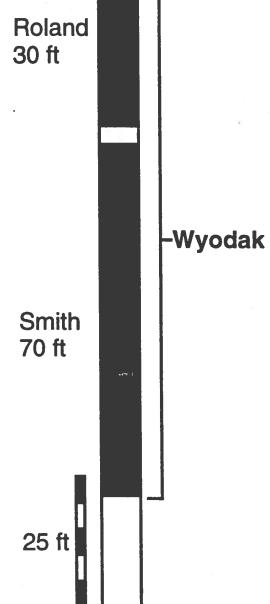
# BUCKSKIN

## STRATIGRAPHIC SECTION

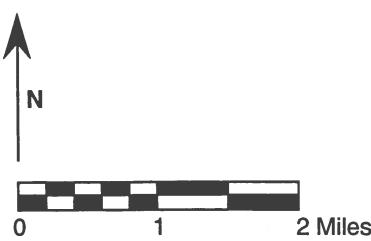
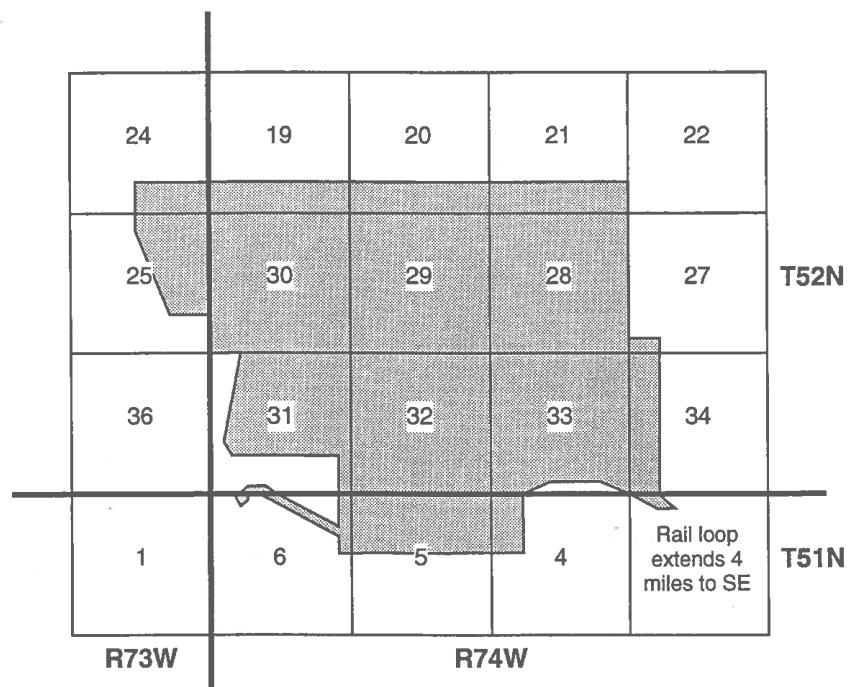
### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Anderson-Canyon, Roland-Smith)

Surface



### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 140

# CABALLO

**Operated by:**  
Powder River Coal Company

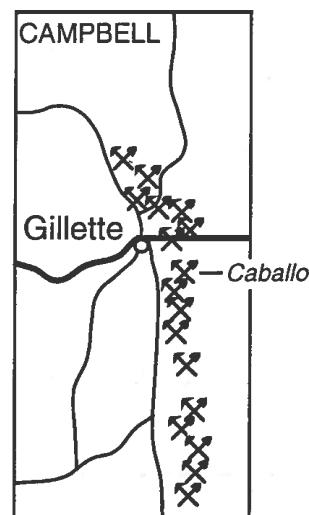
**Owned by:**  
Peabody Holding Company

**Mine Start-up Date:** 1978

**Mine Manager**  
Fred W. VonKaenel  
**Mailing Address**  
P. O. Box 3007  
Gillette, WY 82717-3007  
**Phone:** (307) - 686-1991

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 12,093

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
Btu/lb:	1992	1993	1994
% Ash:	5.04	5.09	5.17
% Sulfur:	0.39	0.38	0.37
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.92	0.89	0.88

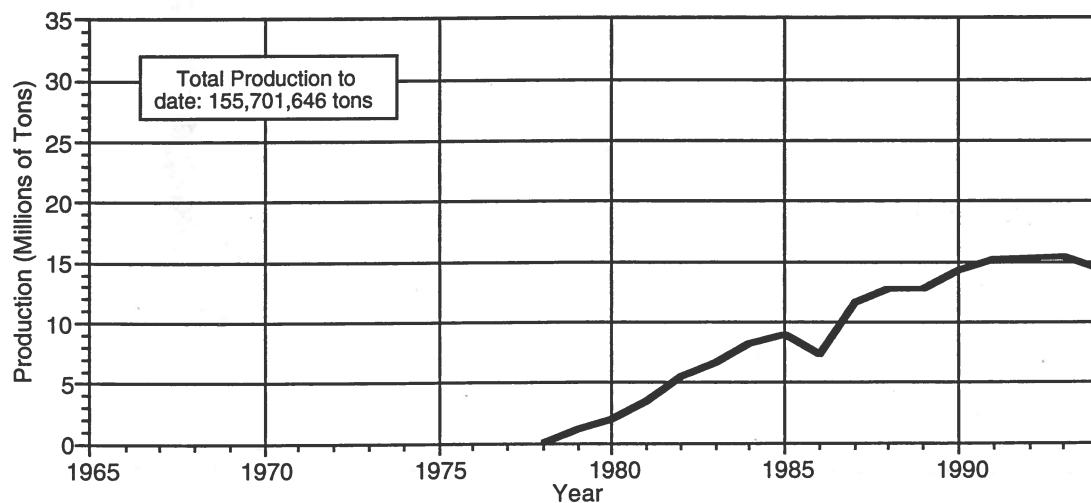
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 70 ft  
**Average Overburden Thickness :** 180 ft  
**Range in Overburden Thickness :** 40-280 ft

**Permitted Remaining Mineable Reserves:** 630.0 million st  
**Average Recovery Factor:** 92.0%  
**1994 Production:** 14,428,600 st  
**1994 Air Quality Limits:** 24 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# CABALLO

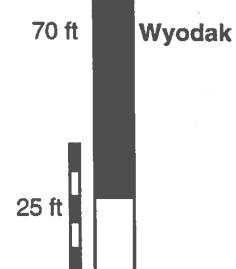
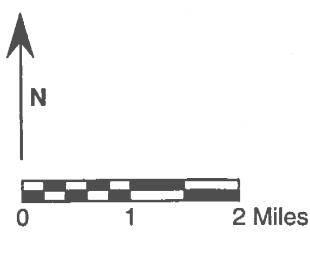
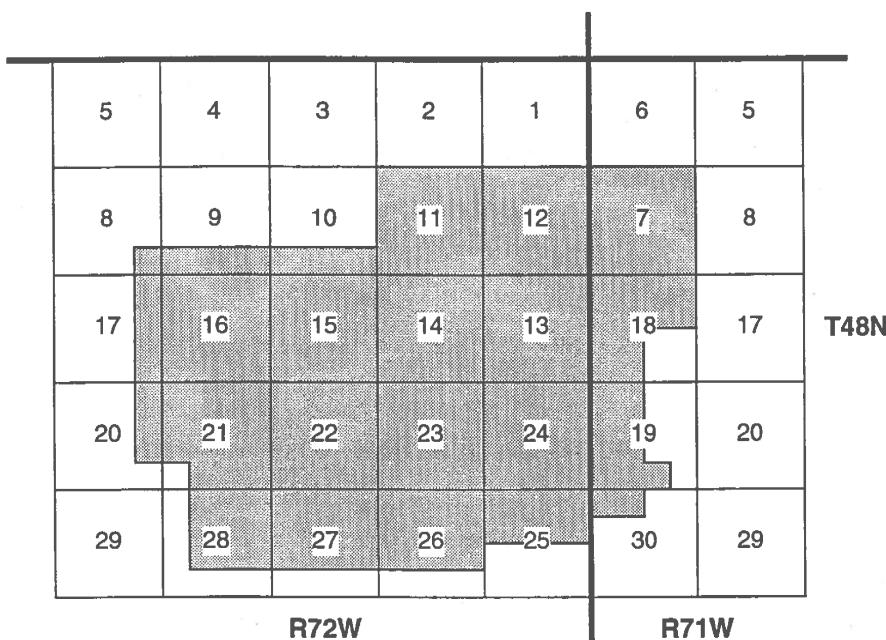
## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Wyodak-Anderson, Roland-Smith)

Surface

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 322

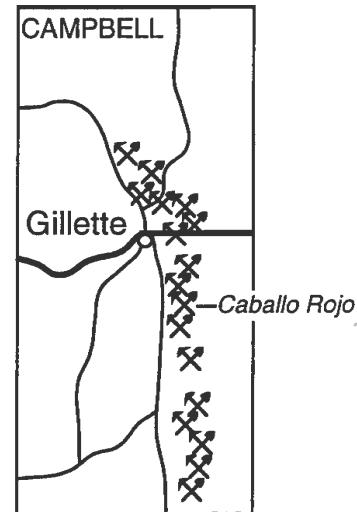
# CABALLO ROJO

**Operated by:**  
Caballo Rojo, Incorporated  
**Owned by:**  
Marigold Land Company  
**Mine Start-up Date:** 1982

**Mine Manager**  
Bradley D. Hanson  
**Mailing Address**  
P.O. Box 3021  
Gillette, WY 82717-3021  
**Phone:** (307) - 687-0800

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✖ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 7,524

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,499	8,439	8,444
% Ash:	5.09	4.96	5.17
% Sulfur:	0.38	0.36	0.33
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.90	0.84	0.78

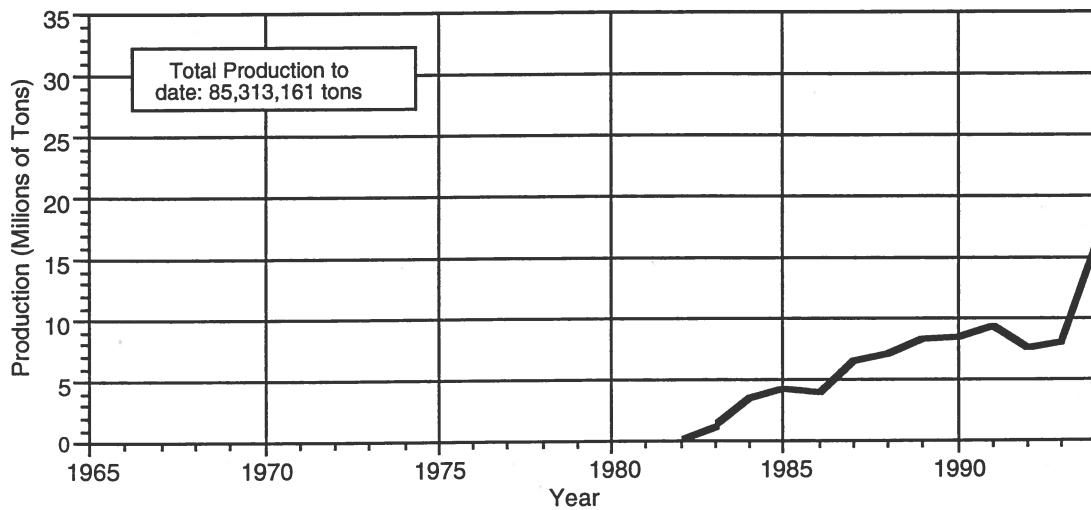
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dragline, Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 65 ft  
**Average Overburden Thickness :** 140 ft  
**Range in Overburden Thickness :** 15-310 ft

**Permitted Remaining Mineable Reserves:** 370 million st  
**Average Recovery Factor:** 95.0%  
**1994 Production:** 16,611,485 st  
**1994 Air Quality Limits:** 30 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# CABALLO ROJO

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

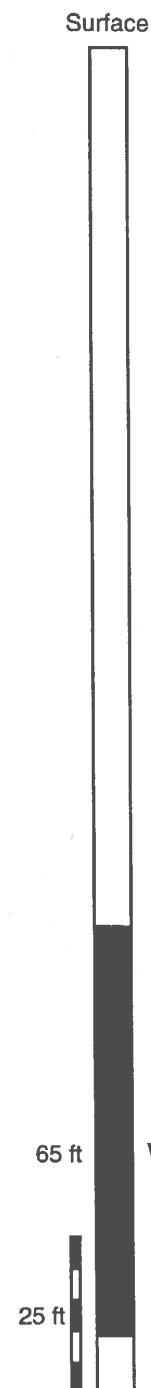
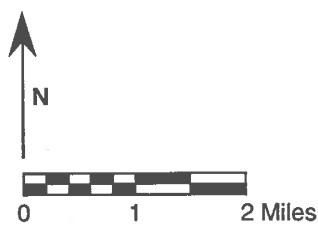
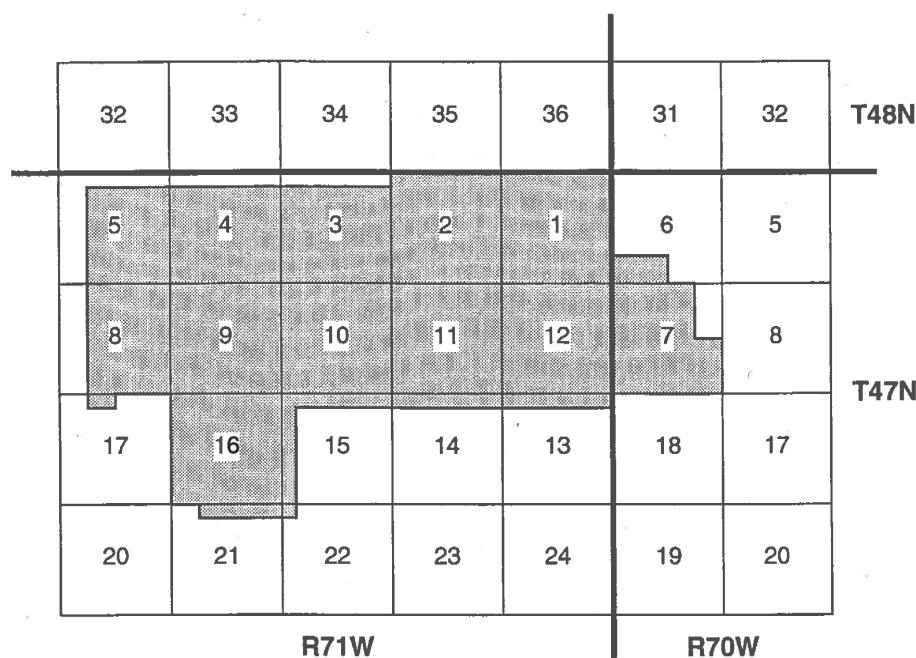
Age: Tertiary/Paleocene

Formation: Fort Union

Member: Tongue River

Zone/Bed Name(s): Wyodak (Wyodak-Anderson)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994:

182

# CLOVIS POINT

**Operated by:**  
Kerr-McGee Coal Corporation

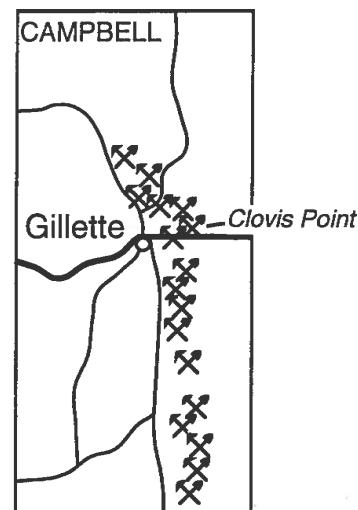
**Owned by:**  
Kerr-McGee Corporation

**Mine Start-up Date:** 1979

**Mine Manager**  
G. Paul Anderson  
**Mailing Address**  
P. O. Box 3103  
Gillette, WY 82717  
**Phone:** (307) - 682-5730

**EXPLANATION**

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 1,371

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	N/A	N/A	8,088
% Ash:	N/A	N/A	5.61
% Sulfur:	N/A	N/A	0.41
SO <sub>2</sub> (lbs)/mmBtu: <sup>+</sup>	N/A	N/A	1.00

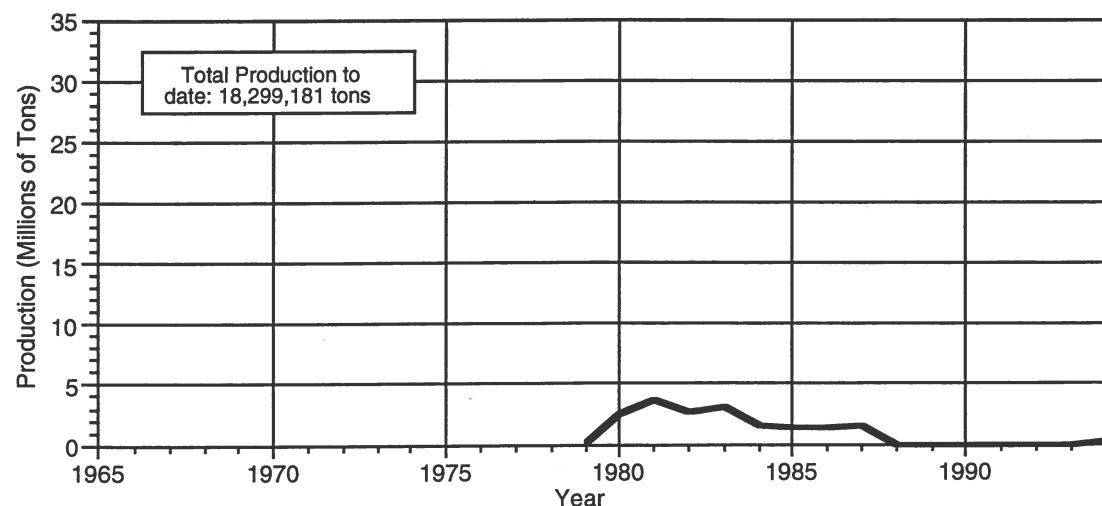
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 80 ft\*  
**Average Overburden Thickness :** 125 ft  
**Range in Overburden Thickness :** 60-250 ft

**Permitted Remaining Mineable Reserves:** 71.3 million st  
**Average Recovery Factor:** 90.0%  
**1994 Production:** 202,202 st  
**1994 Air Quality Limits:** 4 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# CLOVIS POINT

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene

Formation: Fort Union

Member: Tongue River

Zone/Bed Name(s): Wyodak (Upper & Lower Wyodak, Roland-Smith)

Surface

T50N

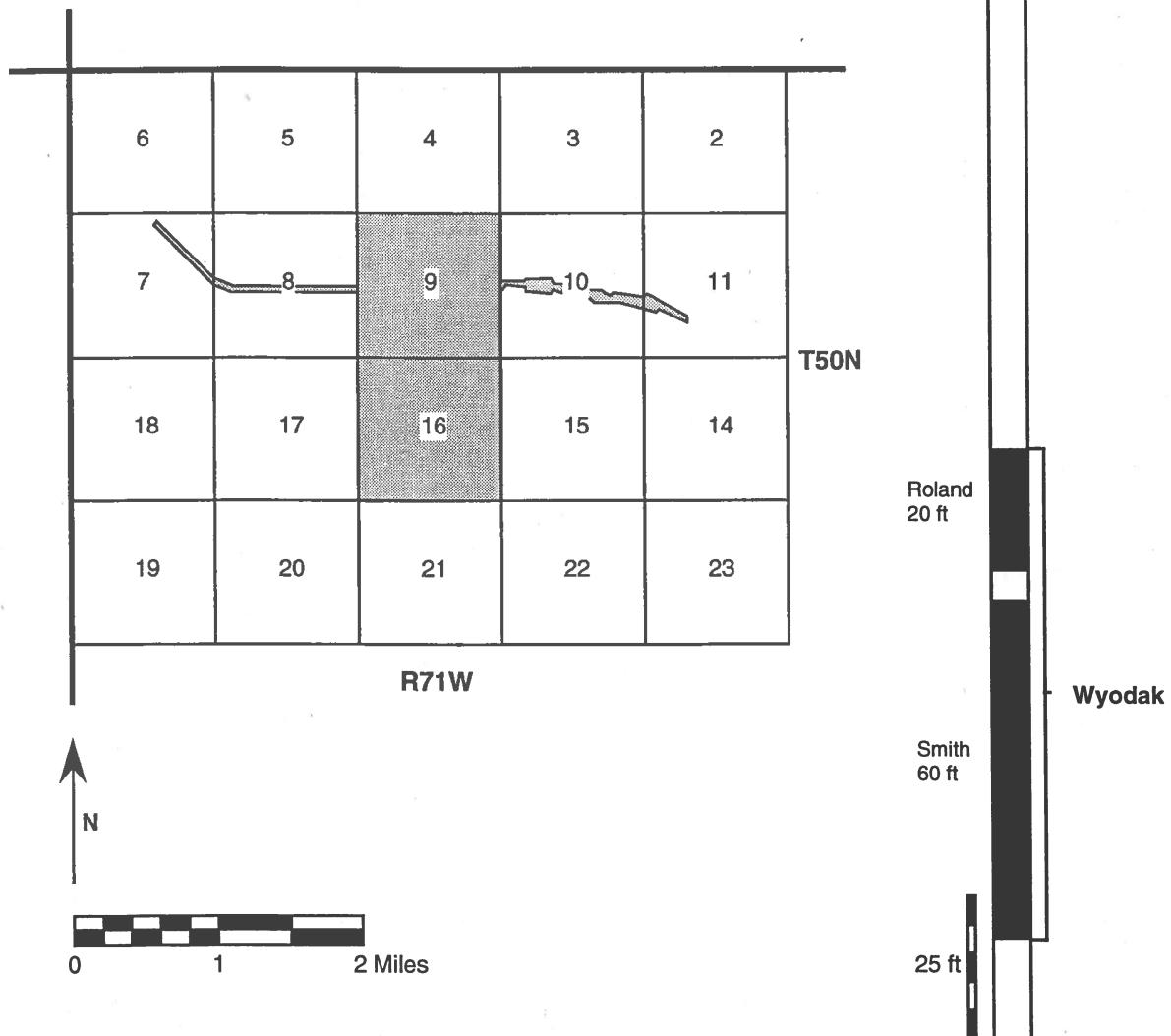
Roland  
20 ft

Smith  
60 ft

25 ft

Wyodak

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 5

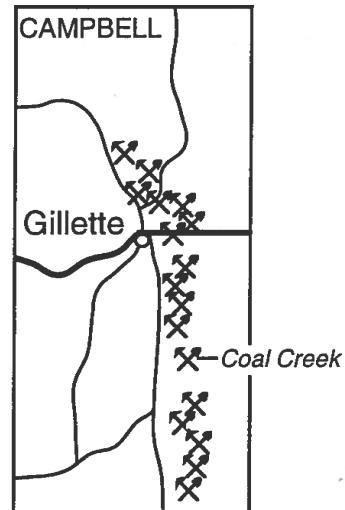
# COAL CREEK

**Operated by:**  
Thunder Basin Coal Company  
**Owned by:**  
ARCO Coal Company  
**Mine Start-up Date:** 1982

**Mine Manager**  
E. J. Comer  
**Mailing Address**  
P. O. Box 406  
Wright, WY 82732  
**Phone:** (307) - 939-1300

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 9,560

## AVERAGE DELIVERED QUALITY

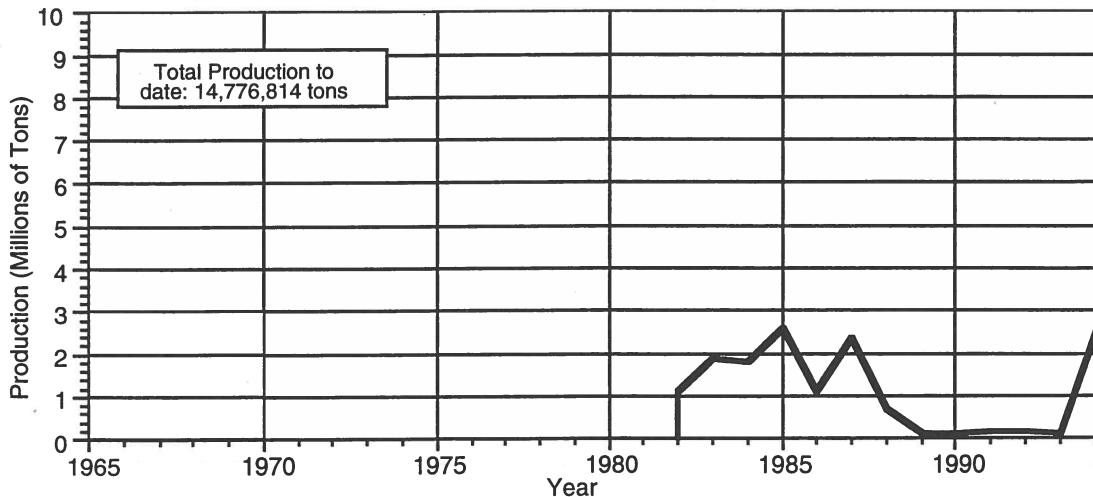
	Apparent Rank:	Subbituminous		
		1992	1993	1994
Btu/lb:	8,555	8,213	8,315	
% Ash:	5.36	5.83	5.72	
% Sulfur:	0.33	0.31	0.34	
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.77	0.76	0.82	

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dozer, Scraper (Contractor)      **Permitted Remaining Mineable Reserves:** 287.6 million  
**Coal:** Truck and Shovel      **Average Recovery Factor:** 90.0%  
**Average Bed Thickness :** 33\*      **1994 Production:** 2,532,889  
**Average Overburden Thickness :** 75      **1994 Air Quality Limits:** 18 million  
**Range in Overburden Thickness :** 10-175

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# COAL CREEK

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

**Age:** Tertiary/Paleocene

**Formation:** Fort Union

**Member:** Tongue River

**Zone/Bed Name(s):** Wyodak (Roland #1, Roland #3, Roland #5, Fort Union #1, Wyodak-Anderson)

Surface

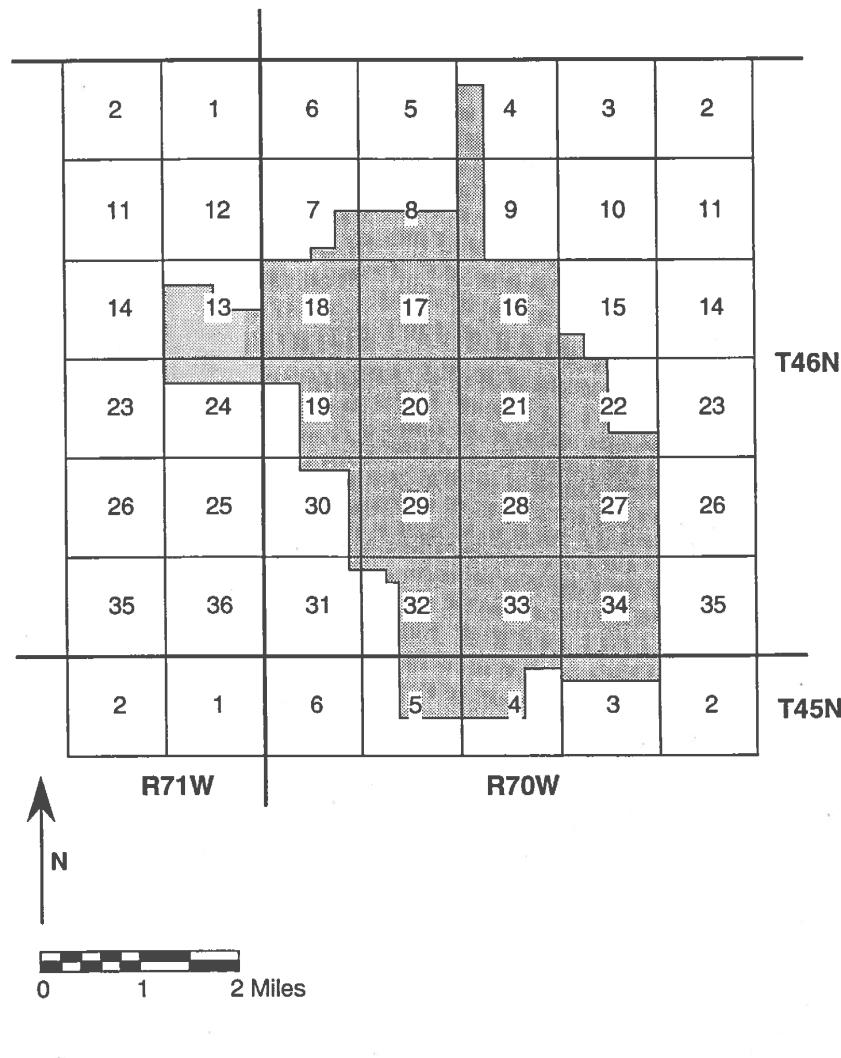
T46N

Roland #1  
23 ft

Wyodak

Roland #2  
10 ft

25 ft



Number of Employees in 1994:

59

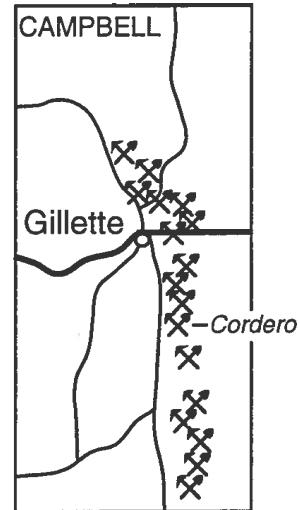
# CORDERO

**Operated by:**  
Kennebott Energy Company  
**Owned by:**  
Kennebott Minerals Company  
**Mine Start-up Date:** 1976

**Mine Manager**  
Dave Salisbury  
**Mailing Address**  
P.O. Box 1449  
Gillette, WY 82716  
**Phone:** (307) - 682-8005

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

Coal Field: Powder River  
County: Campbell  
Mine Type: Surface  
Number of Acres Permitted: 8,299

## AVERAGE DELIVERED QUALITY

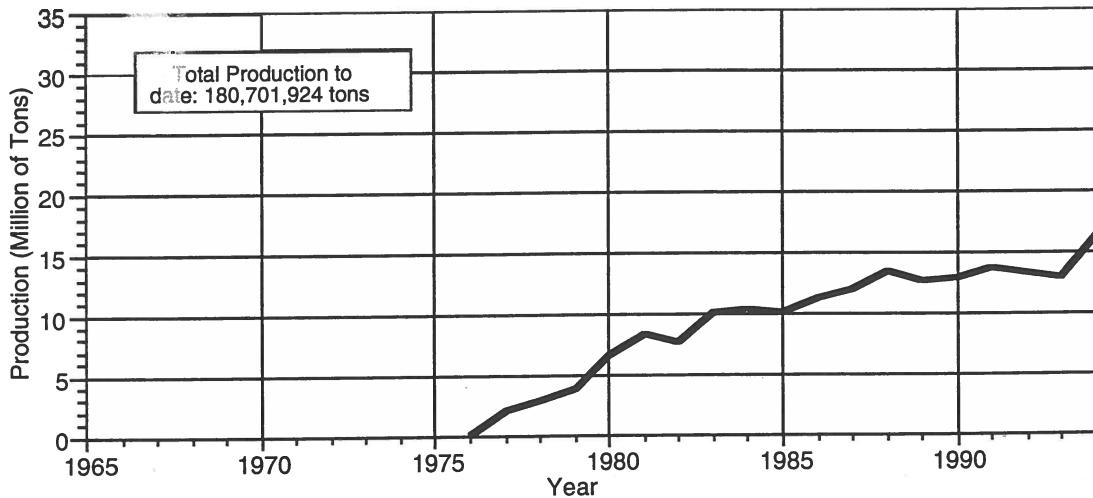
Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,383	8,377	8,381
% Ash:	5.55	5.25	5.43
% Sulfur:	0.32	0.34	0.35
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.77	0.80	0.83

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dragline, Truck and Shovel    **Permitted Remaining Mineable Reserves:** 367.7 million st  
**Coal:** Truck and Shovel    **Average Recovery Factor:** 92.5%  
**Average Bed Thickness :** 60 ft    **1994 Production:** 16,413,646 st  
**Average Overburden Thickness :** 110 ft    **1994 Air Quality Limits:** 24 million st  
**Range in Overburden Thickness :** 20-272 ft

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

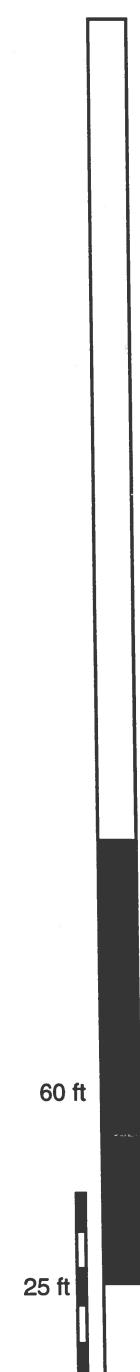
# CORDERO

## STRATIGRAPHIC SECTION

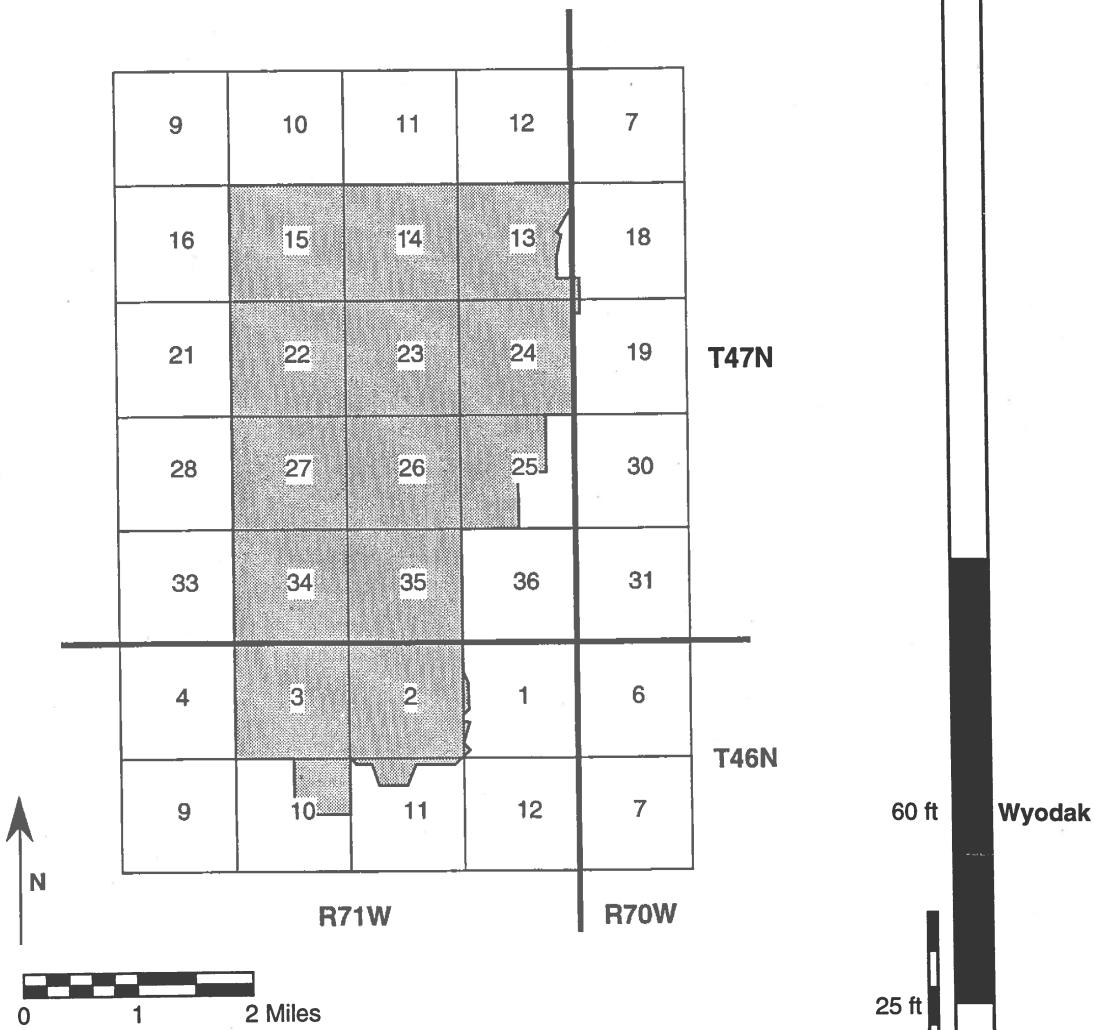
### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Roland, Wyodak-Anderson)

Surface



### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 204

# DAVE JOHNSTON

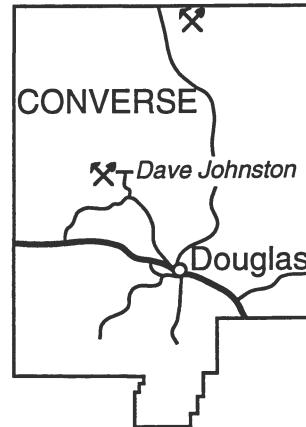
**Operated by:**  
Glenrock Coal Company  
**Owned by:**  
Pacific Power and Light

**Mine Start-up Date:** 1958

**Mine Manager**  
Bart Hyta  
**Mailing Address**  
1026 55 Ranch Road  
Glenrock, WY 82637  
**Phone:** (307) - 436-2746

**EXPLANATION**

- County Seat
- Interstate Highway
- US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Converse  
**Mine Type:** Surface  
**Number of Acres Permitted:** 13,588

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	7,771	7,752	7,713
% Ash:	10.09	10.95	11.23
% Sulfur:	0.49	0.47	0.47
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.25	1.21	1.21

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dragline, Truck and Shovel

**Permitted Remaining Mineable Reserves:** 68.3 million st

**Coal:** Truck and Shovel

**Average Recovery Factor:** 95.0%

**Average Bed Thickness :** 45 ft\*

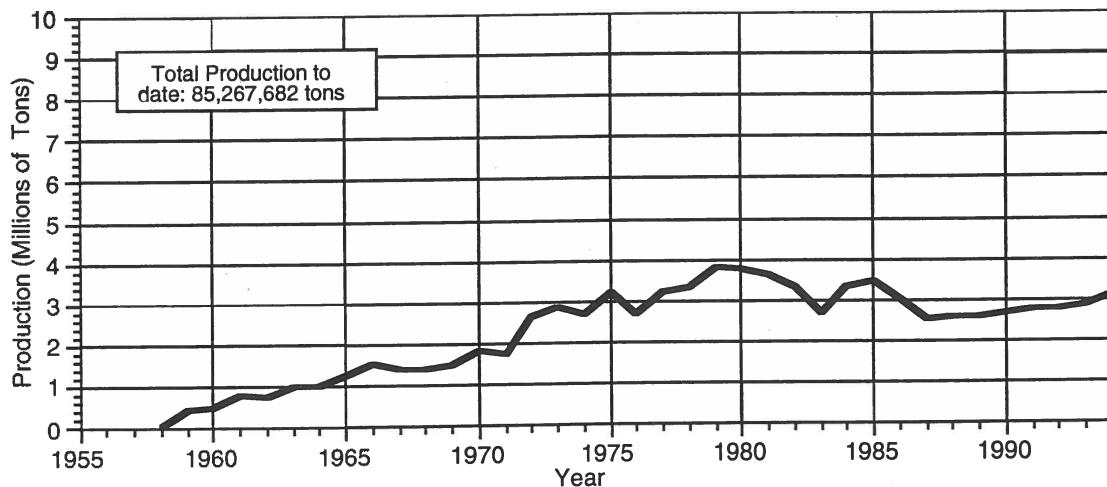
**1994 Production:** 3,159,725 st

**Average Overburden Thickness :** 130 ft\*

**1994 Air Quality Limits:** 4.225 million st

**Range in Overburden Thickness :** 73-128 ft

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# DAVE JOHNSTON

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

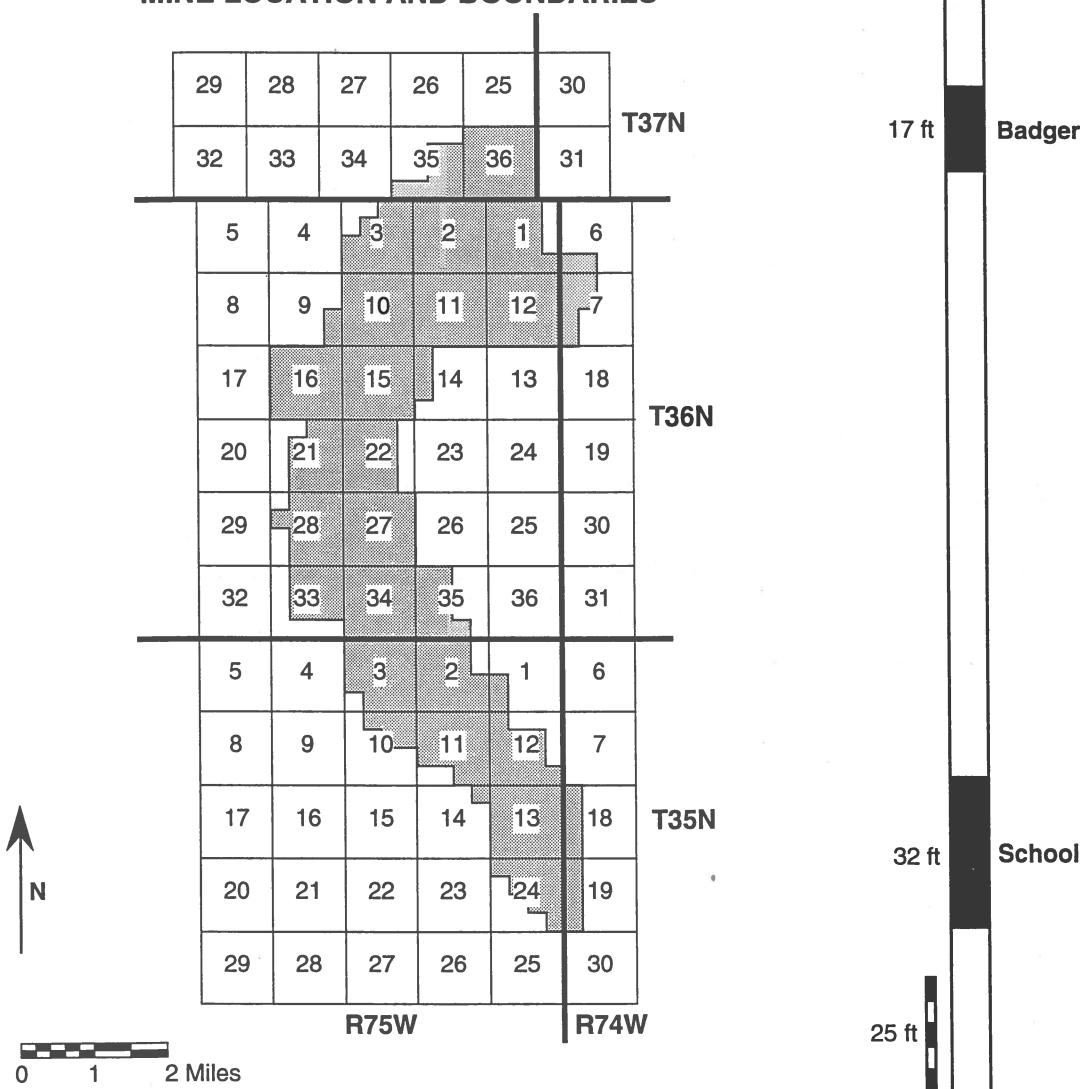
Age: Tertiary/Eocene

Formation: Wasatch

Member:

Bed Name(s): Badger, School

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 182

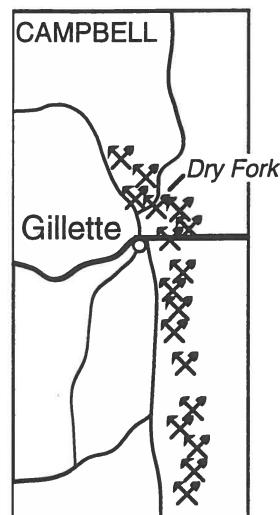
# DRY FORK

**Operated by:**  
Dry Fork Coal Company  
**Owned by:**  
Phillips/Western Fuels Association  
**Mine Start-up Date:** 1990

**Mine Manager**  
Randy Sandrik  
**Mailing Address**  
3629 Garner Lake Road  
Gillette, WY 82716  
**Phone:** (307) - 682-0213

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 3,798

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	N/A	8,167	8,212
% Ash:	N/A	4.75	4.79
% Sulfur:	N/A	0.40	0.38
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	N/A	0.97	0.92

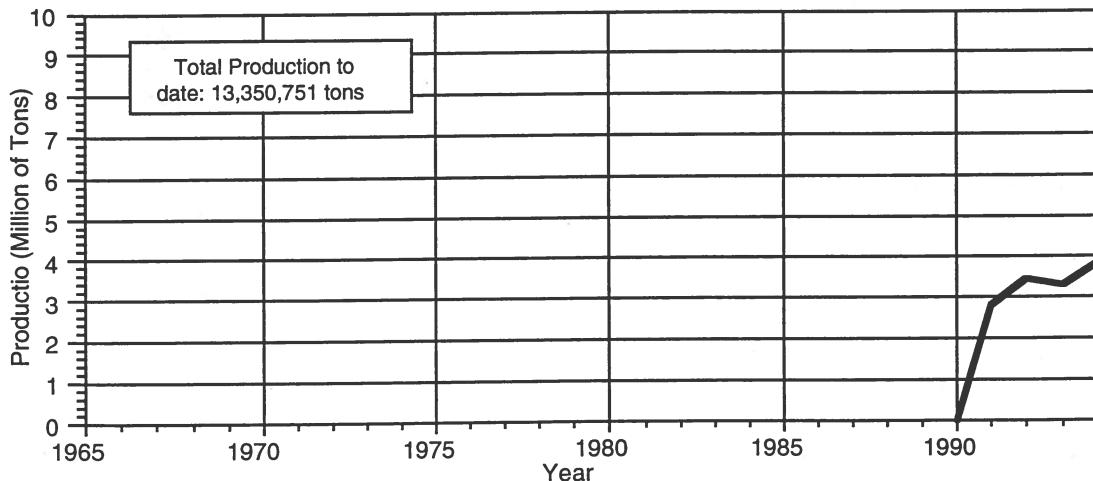
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 90 ft  
**Average Overburden Thickness :** 95 ft  
**Range in Overburden Thickness :** 10-210 ft

**Permitted Remaining Mineable Reserves:** 233.9 million st  
**Average Recovery Factor:** 91.1%  
**1994 Production:** 3,836,228 st  
**1994 Air Quality Limits:** 15 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

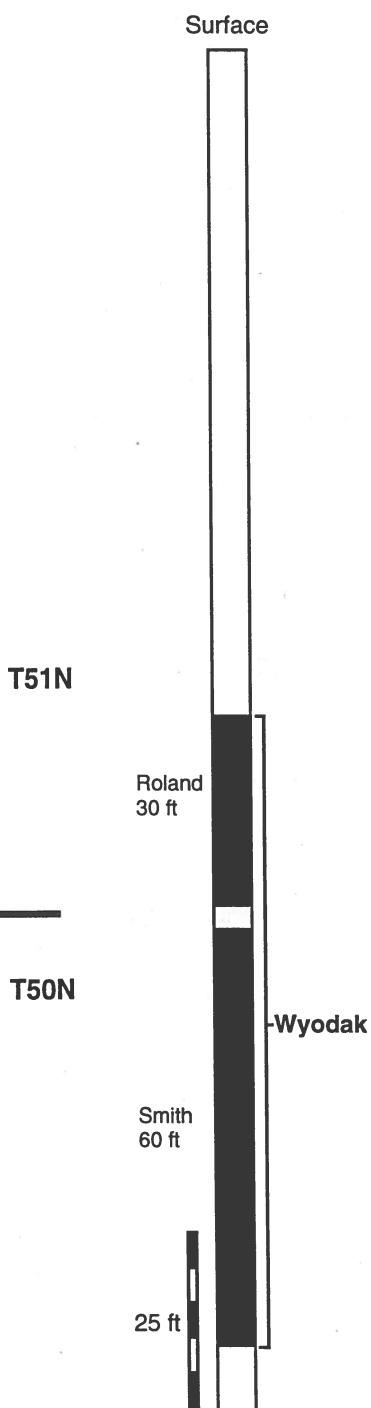
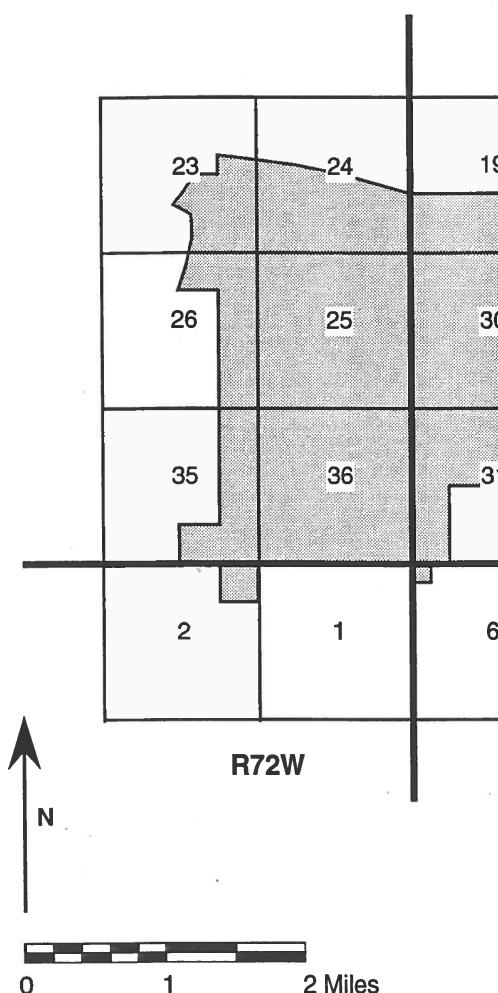
# DRY FORK

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Wyodak-Anderson, Upper & Lower Wyodak, Anderson-Canyon)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 51

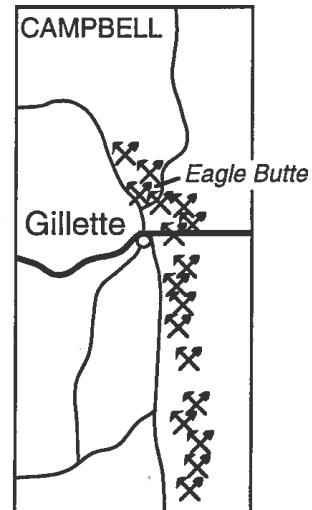
# EAGLE BUTTE

**Operated by:**  
Cyprus-AMAX Coal West  
**Owned by:**  
Cyprus-AMAX Corporation  
**Mine Start-up Date:** 1978

**Mine Manager**  
Robert Church  
**Mailing Address**  
P. O. Box 3040  
Gillette, WY 82717-3040  
**Phone:** (307) - 687-3300

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 5,717

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,263	8,249	8,233
% Ash:	4.59	4.51	4.62
% Sulfur:	0.36	0.35	0.37
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.87	0.85	0.89

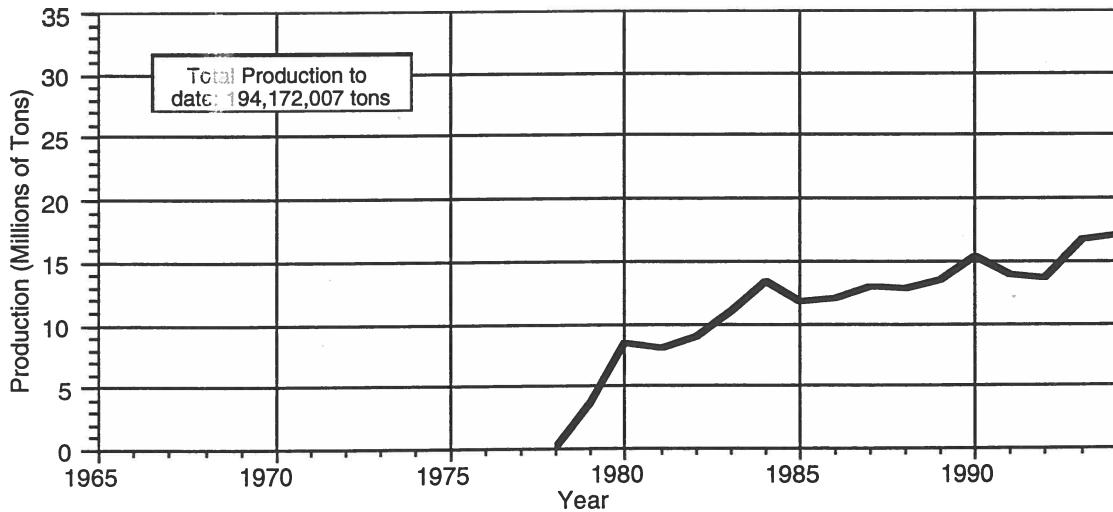
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 110 ft\*  
**Average Overburden Thickness :** 200 ft  
**Range in Overburden Thickness :** 6-325 ft

**Permitted Remaining Mineable Reserves:** 452.7 million st  
**Average Recovery Factor:** 95.0%  
**1994 Production:** 17,161,000 st  
**1994 Air Quality Limits:** 25.5 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# EAGLE BUTTE

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene

Formation: Fort Union

Member: Tongue River

Zone/Bed Name(s): Wyodak-Anderson (Roland-Smith)

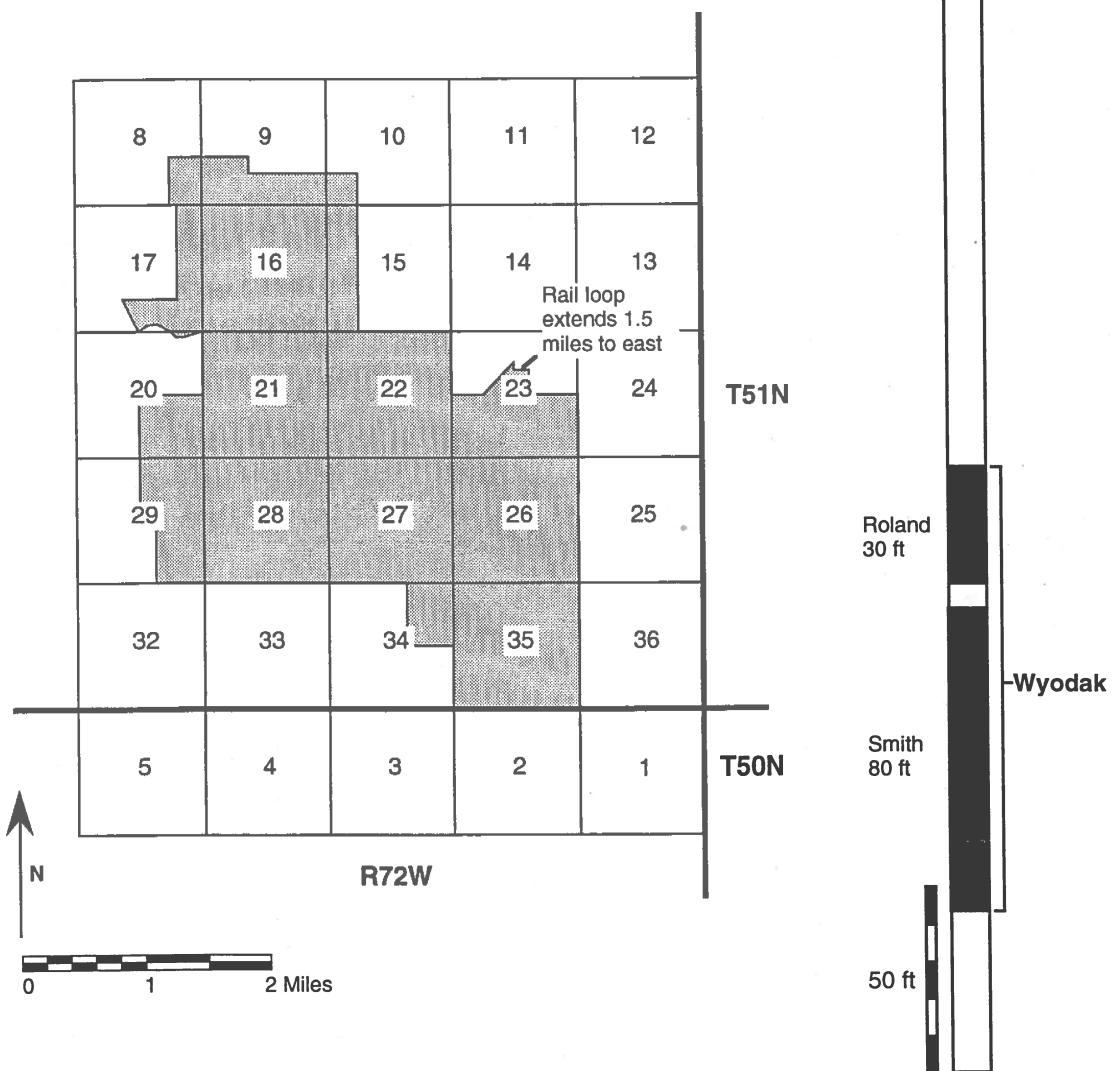
Surface

Roland  
30 ft

Smith  
80 ft

50 ft

-Wyodak



Number of Employees in 1994: 209

# FORT UNION

## Operated by:

Fort Union Ltd.

## Owned by:

Fort Union Ltd.

Mine Start-up Date: 1978

## Mine Superintendent

Robert Becker

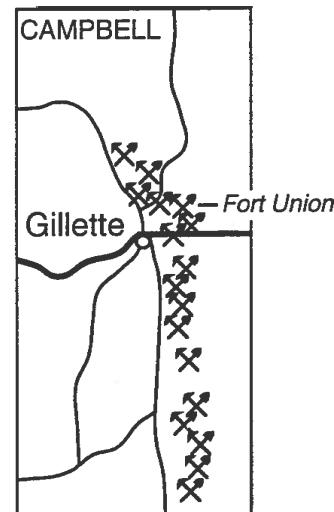
## Mailing Address

P. O. Box 2737  
Gillette, WY 82717-2737

Phone: (307) - 682-7999

## EXPLANATION

- County Seat
- Interstate Highway
- US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

Coal Field: Powder River

County: Campbell

Mine Type: Surface

Number of Acres Permitted: 4,827

## AVERAGE DELIVERED QUALITY

Apparent Rank: Subbituminous

	1992	1993	1994
Btu/lb:	N/A	8,200	8,231
% Ash:	N/A	5.50	5.50
% Sulfur:	N/A	0.35	0.34
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	N/A	0.90	0.83

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

Overburden: Truck and Shovel

Permitted Remaining Mineable Reserves: 202.2 million st

Coal: Scraper loader

Average Recovery Factor: 81.0%

Average Bed Thickness : 60 ft

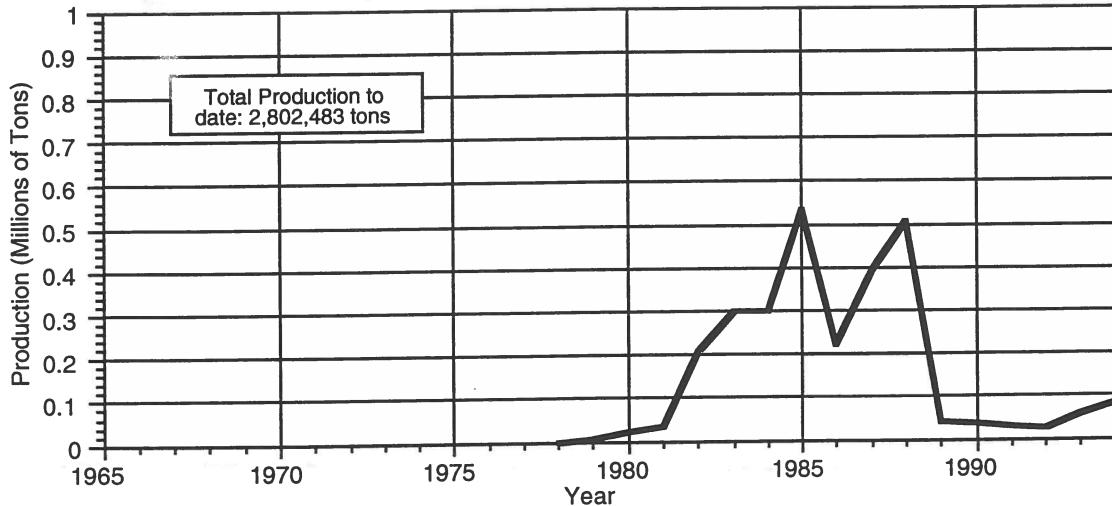
1994 Production: 84,122 st

Average Overburden Thickness : 80 ft

1994 Air Quality Limits: 9.4 million st

Range in Overburden Thickness : 7-116 ft

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# FORT UNION

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

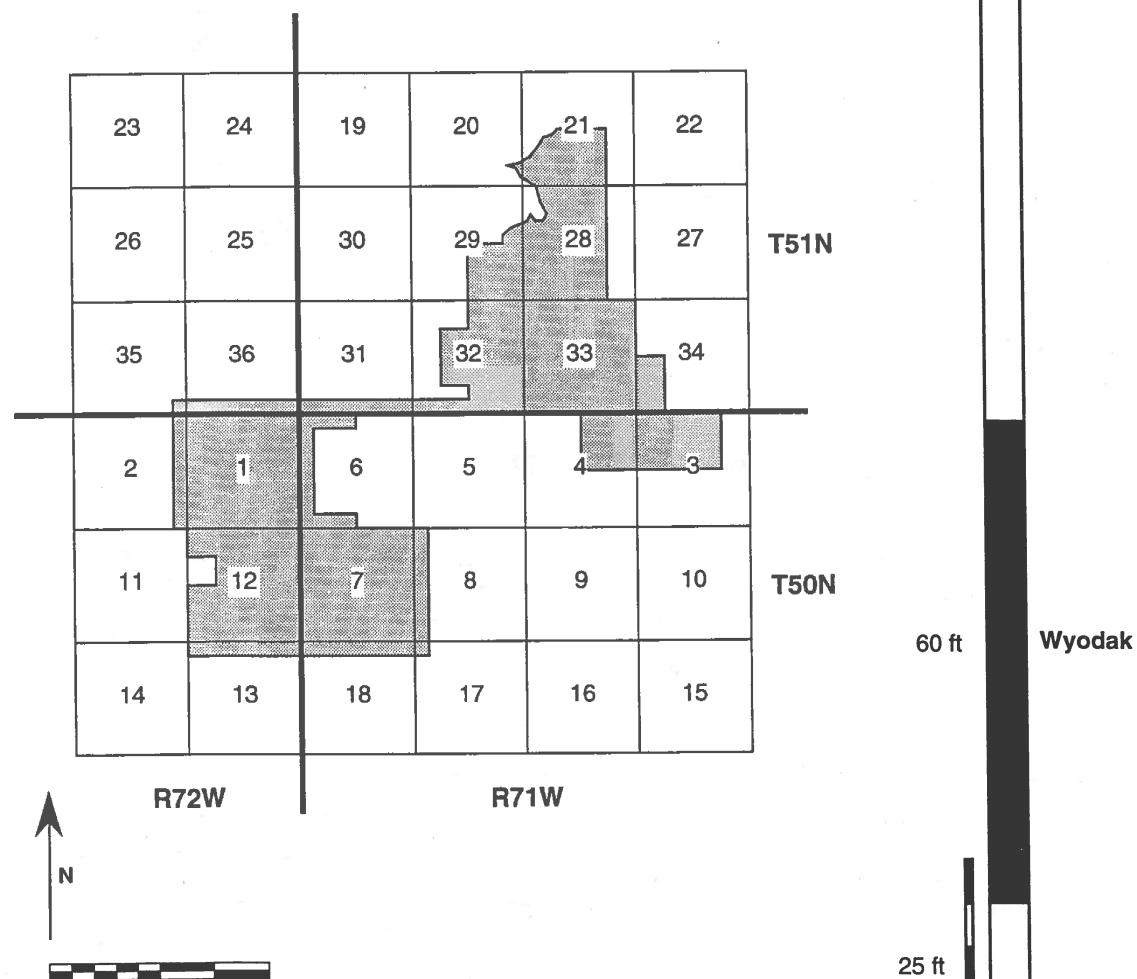
**Age:** Tertiary/Paleocene

**Formation:** Fort Union

**Member:** Tongue River

**Zone/Bed Name(s):** Wyodak (Upper & Lower Wyodak, Roland-Smith, Wyodak-Anderson)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994:

5

# JACOBS RANCH

## Operated by:

Kerr-McGee Coal Corporation

## Owned by:

Kerr-McGee Corporation

Mine Start-up Date: 1977

## Mine Manager

Paul Anderson

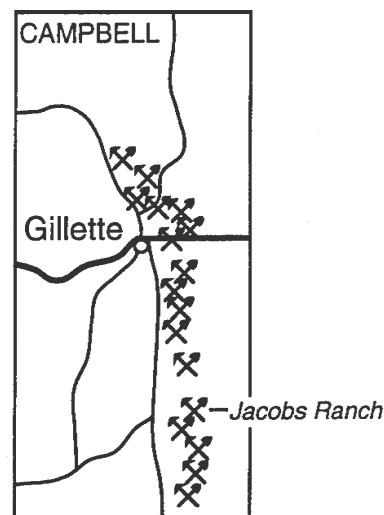
## Mailing Address

Caller Box 3013  
Gillette, WY 82717

Phone: (307) - 939-1216

## EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

Coal Field: Powder River

County: Campbell

Mine Type: Surface

Number of Acres Permitted: 9,198

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,667	8,610	8,628
% Ash:	5.65	5.64	5.58
% Sulfur:	0.43	0.44	0.45
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.00	1.02	1.05

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

Overburden: Truck and Shovel

Coal: Truck and Shovel

Average Bed Thickness : 55 ft\*

Average Overburden Thickness : 110 ft

Range in Overburden Thickness : 4-175 ft

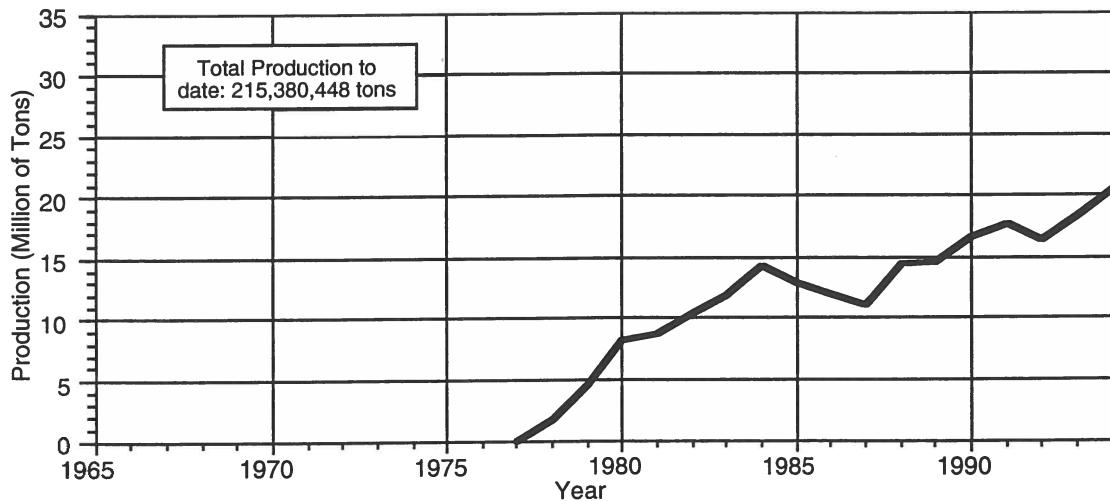
Permitted Remaining Mineable Reserves: 396.1 million st

Average Recovery Factor: 90.0%

1994 Production: 20,550,847 st

1994 Air Quality Limits: 25 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# JACOBS RANCH

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

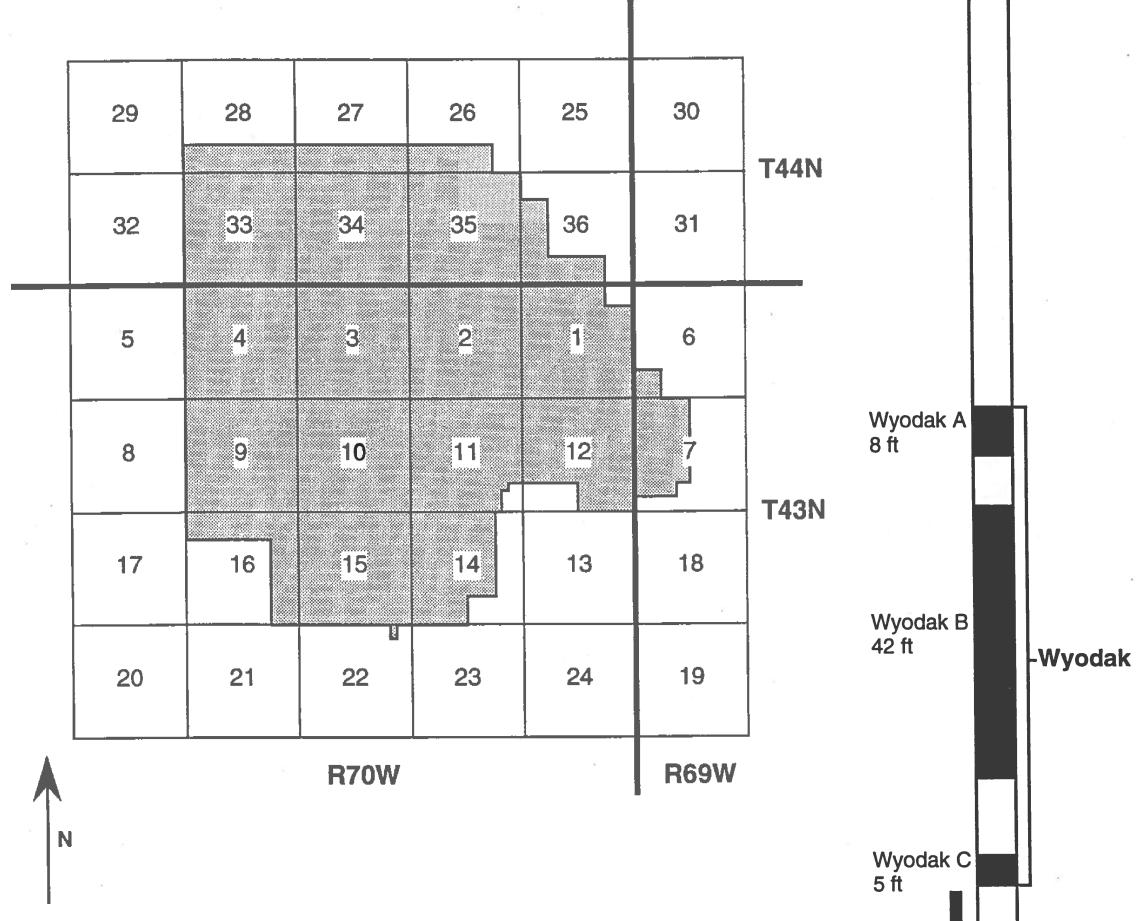
**Age:** Tertiary/Paleocene

**Formation:** Fort Union

**Member:** Tongue River

**Zone/Bed Name(s):** Wyodak (Upper Wyodak, Lower Wyodak 1, & Lower Wyodak 2)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 349

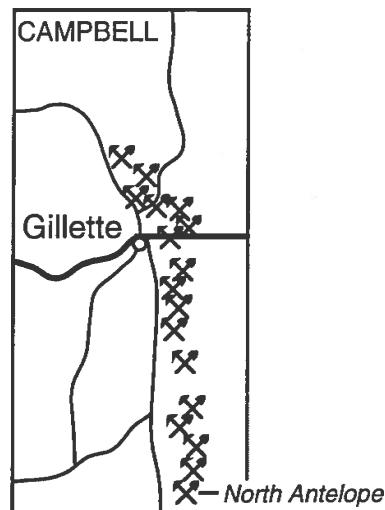
# NORTH ANTELOPE

**Operated by:**  
Powder River Coal Company  
**Owned by:**  
Peabody Holding Company  
**Mine Start-up Date:** 1983

**Mine Manager**  
Douglas A. Wagner  
**Mailing Address**  
Caller Box 3032  
Gillette, WY 82717-3032  
**Phone:** (307) - 464-4800

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✖ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 3,541

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,838	8,819	8,839
% Ash:	4.65	4.59	4.60
% Sulfur:	0.21	0.21	0.23
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.48	0.48	0.51

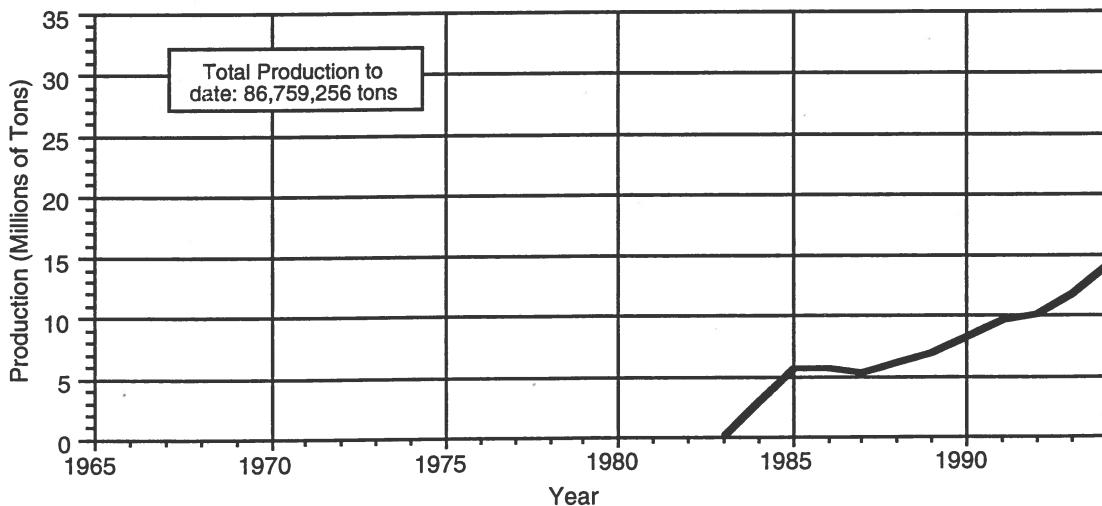
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 73 ft  
**Average Overburden Thickness :** 130 ft  
**Range in Overburden Thickness :** 40-280 ft

**Permitted Remaining Mineable Reserves:** 537.1 million st  
**Average Recovery Factor:** 93.7%  
**1994 Production:** 14,147,809 st  
**1994 Air Quality Limits:** 16 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

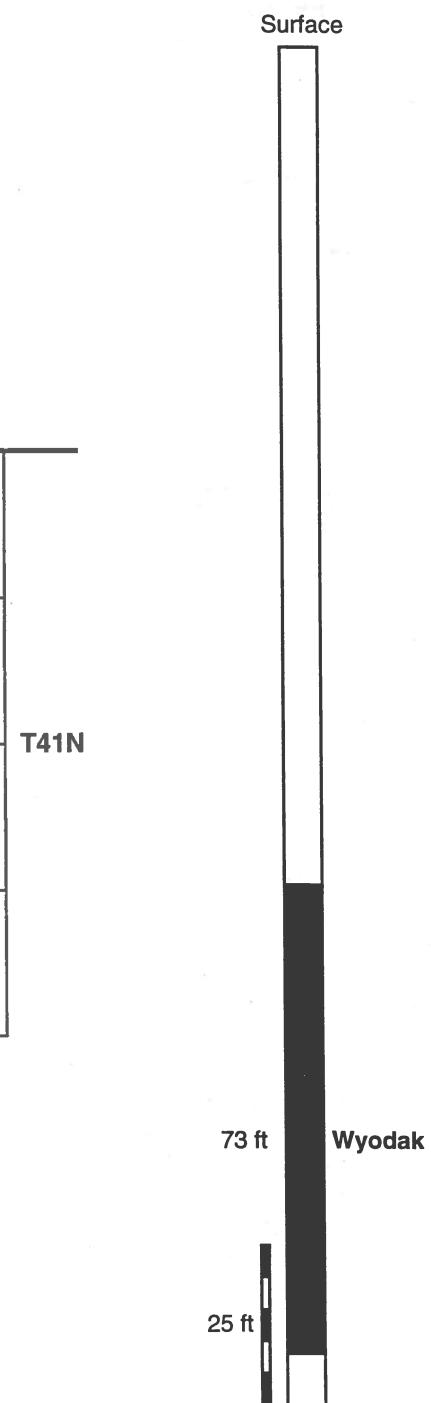
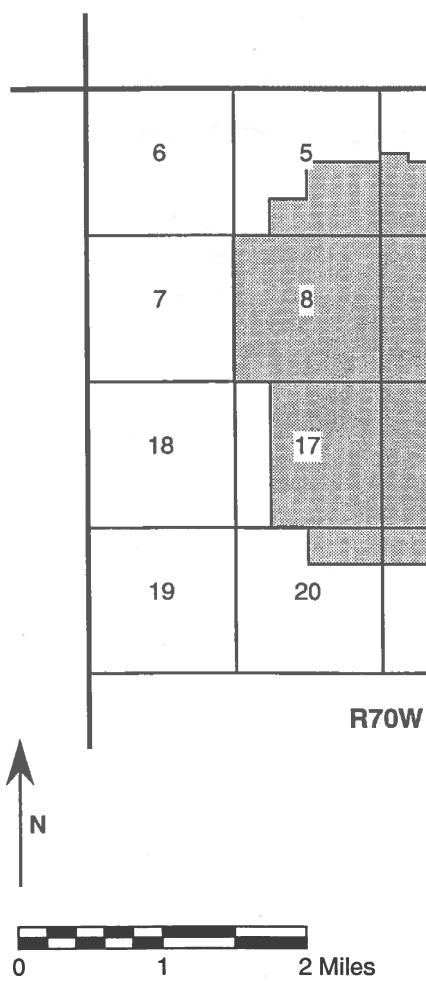
# NORTH ANTELOPE

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Roland, Wyodak-Anderson)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 149

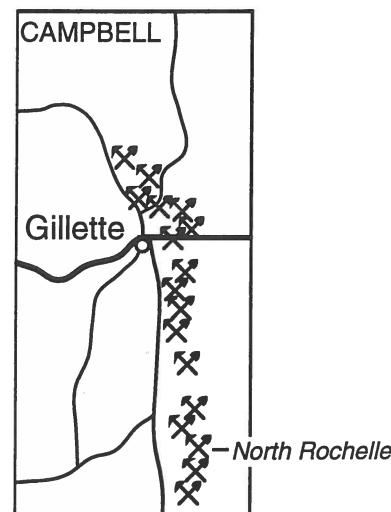
# NORTH ROCHELLE

**Operated by:**  
Triton Coal Company  
**Owned by:**  
Ziegler Coal Holding Company  
**Mine Start-up Date:** 1990

**Mine President**  
Kelly Sanders  
**Mailing Address**  
P.O. Box 3027  
Gillette, WY 82717  
**Phone:** (307) - 464-0533

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 4,587

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,746	8,806	8,631
% Ash:	4.26	4.30	4.71
% Sulfur:	0.25	0.20	0.24
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.58	0.45	0.56

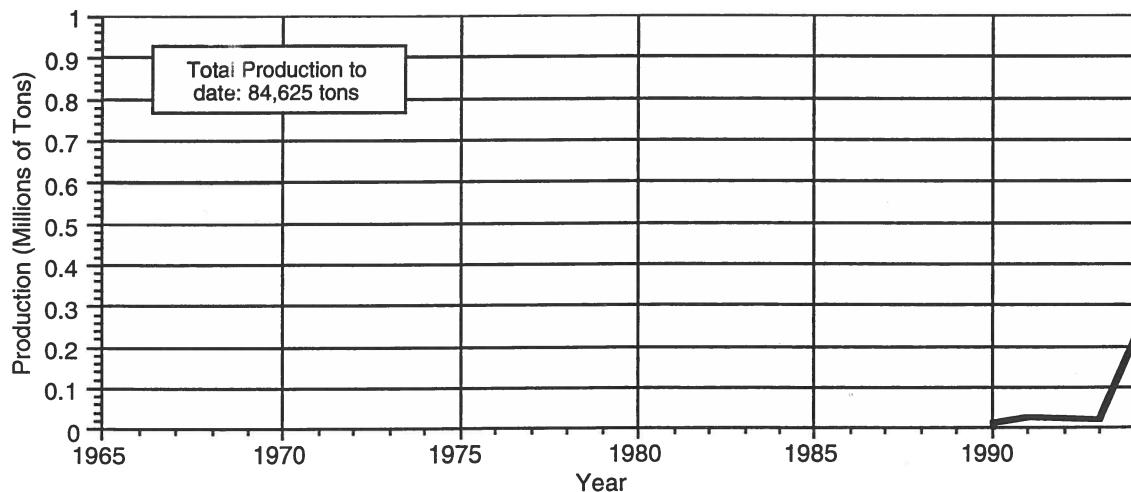
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 60 ft  
**Average Overburden Thickness :** 207 ft  
**Range in Overburden Thickness :** 110-290 ft

**Permitted Remaining Mineable Reserves:** 204.1 million st  
**Average Recovery Factor:** 91.0%  
**1994 Production:** 220,909 st  
**1994 Air Quality Limits:** 8 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

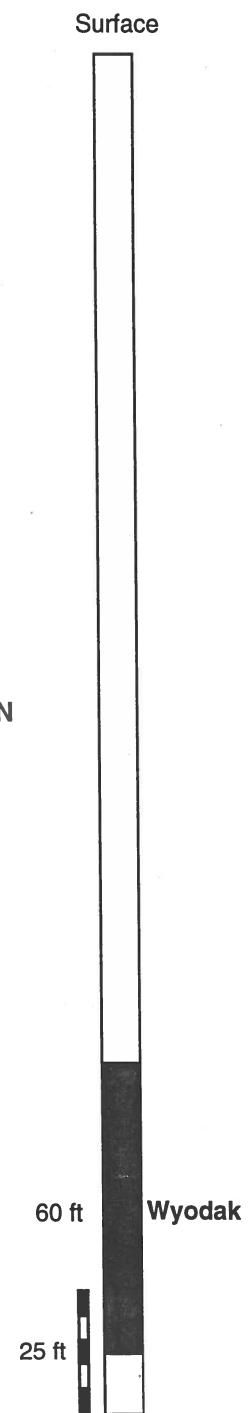
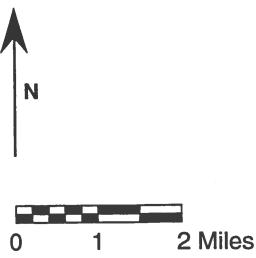
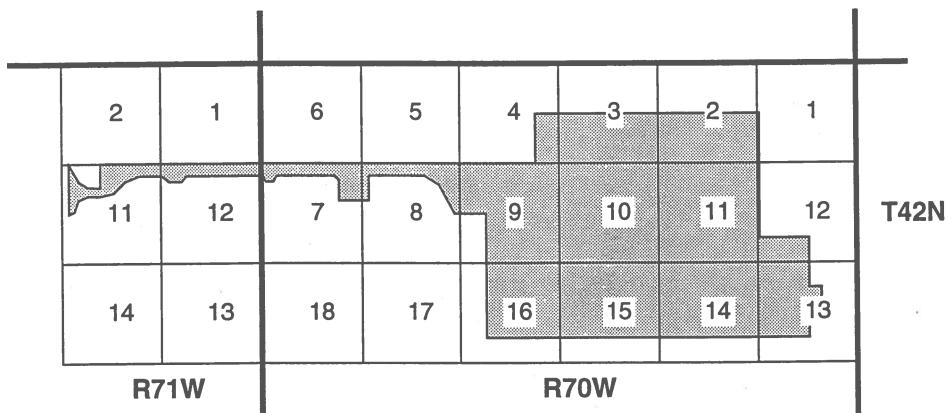
# NORTH ROCHELLE

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Roland, Wyodak-Anderson)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 1

# RAWHIDE

**Operated by:**  
Powder River Coal Company

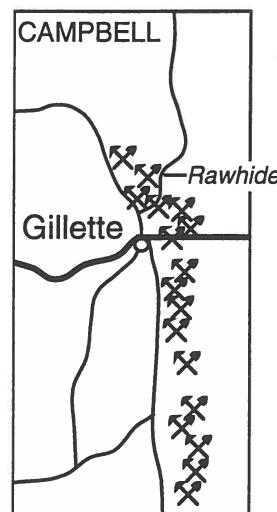
**Owned by:**  
Peabody Holding Company

**Mine Start-up Date:** 1977

**Mine Manager**  
Nick R. Kasperik  
**Mailing Address**  
P. O. Box 3007  
Gillette, WY 82717-3007  
**Phone:** (307) - 687-6600

**EXPLANATION**

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 9,790

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,325	8,292	8,302
% Ash:	4.96	5.06	5.08
% Sulfur:	0.35	0.37	0.36
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.85	0.90	0.87

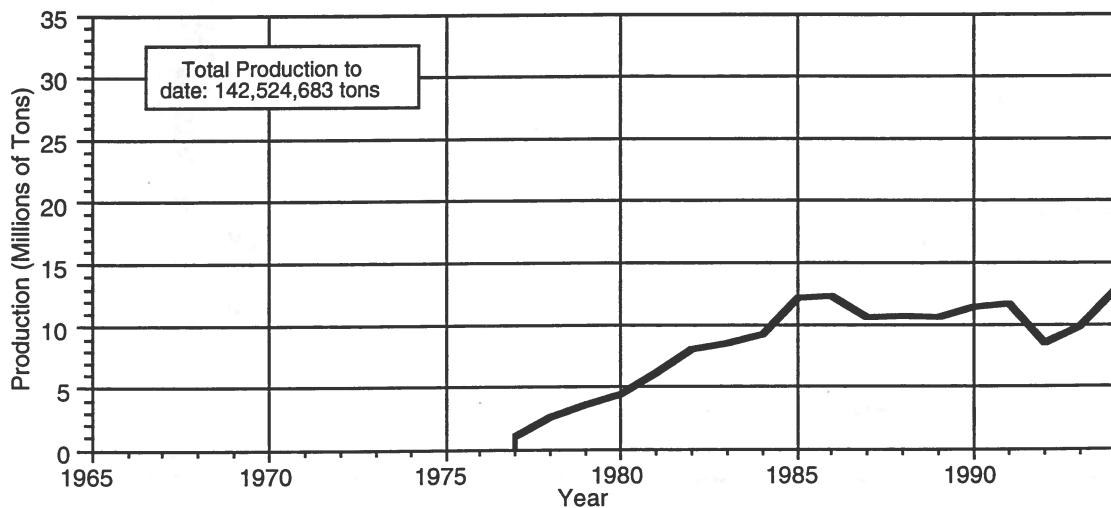
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck, Shovel and Endloader  
**Average Bed Thickness :** 110 ft\*  
**Average Overburden Thickness :** 120 ft  
**Range in Overburden Thickness :** 20-240 ft

**Permitted Remaining Mineable Reserves:** 607.8 million st  
**Average Recovery Factor:** 93.5%  
**1994 Production:** 12,858,787 st  
**1994 Air Quality Limits:** 24 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

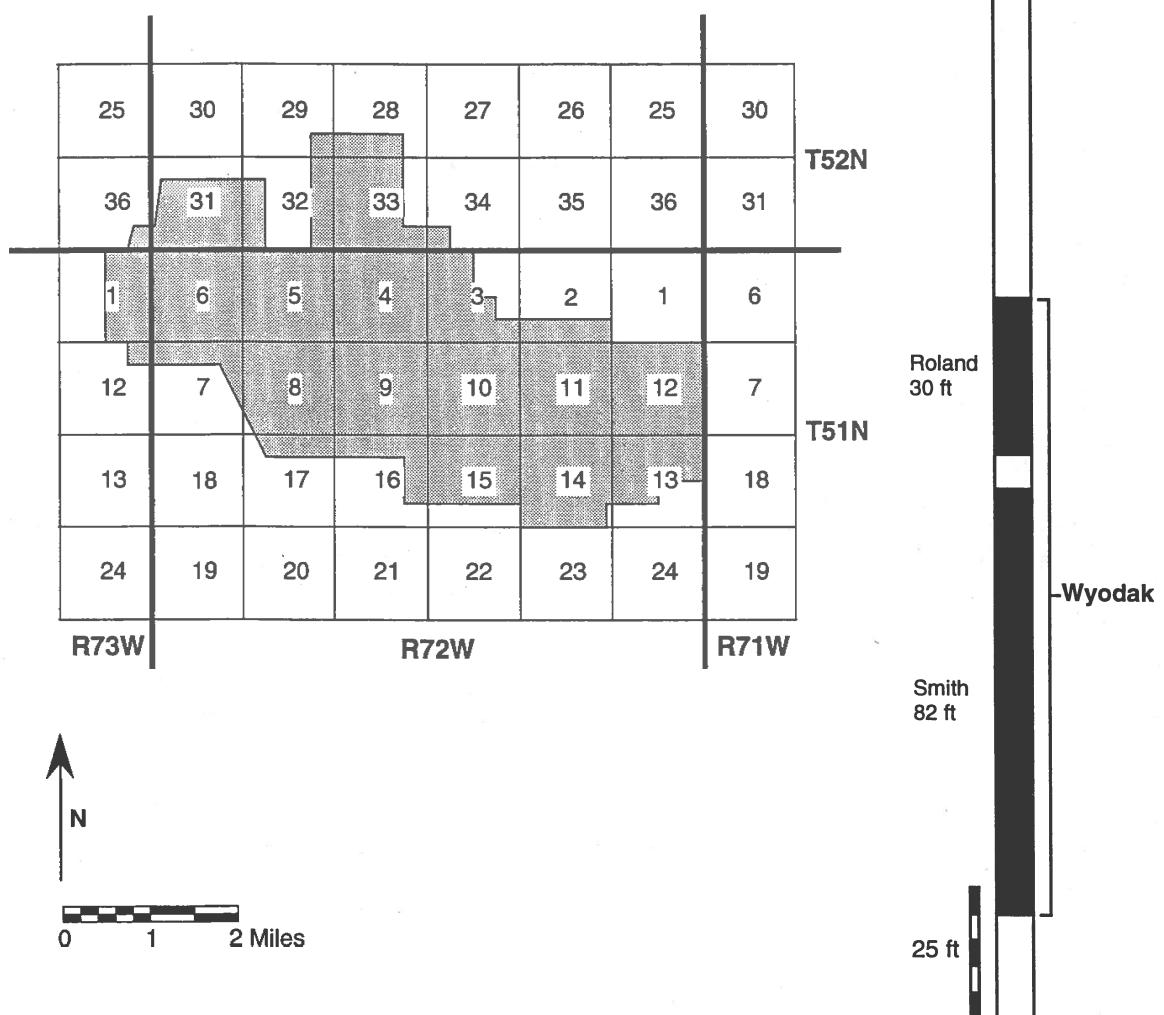
# RAWHIDE

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

**Age:** Tertiary/Paleocene  
**Formation:** Fort Union  
**Member:** Tongue River  
**Zone/Bed Name(s):** Wyodak (Roland-Smith, Wyodak-Anderson,  
 Upper & Lower Wyodak)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 176

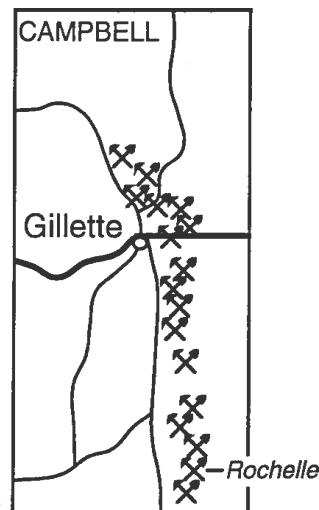
# ROCHELLE

**Operated by:**  
Powder River Coal Company  
**Owned by:**  
Peabody Holding Company  
**Mine Start-up Date:** 1985

**Mine Manager**  
Douglas A. Wagner  
**Mailing Address**  
Caller Box 3035  
Gillette, WY 82717-3035  
**Phone:** (307) - 464-4706

## EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 10,911

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	8,791	8,755	8,738
% Ash:	4.56	4.53	4.53
% Sulfur:	0.21	0.21	0.21
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.48	0.48	0.48

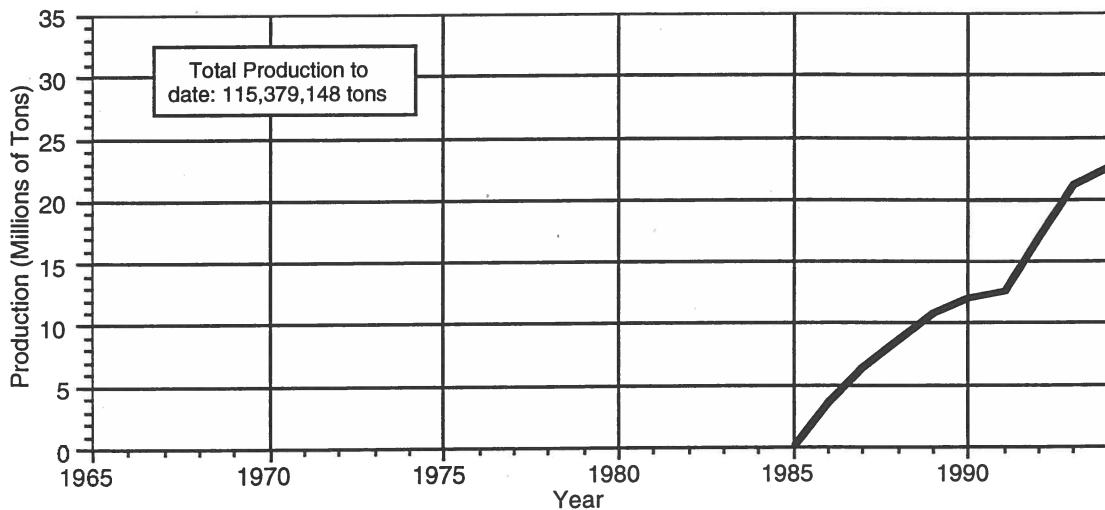
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 65 ft  
**Average Overburden Thickness :** 150 ft  
**Range in Overburden Thickness :** 40-280 ft

**Permitted Remaining Mineable Reserves:** 640.0 million st  
**Average Recovery Factor:** 82.2%  
**1994 Production:** 22,677,048 st  
**1994 Air Quality Limits:** 26 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# ROCHELLE

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: Tongue River  
Zone/Bed Name(s): Wyodak (Roland, Wyodak-Anderson)

Surface

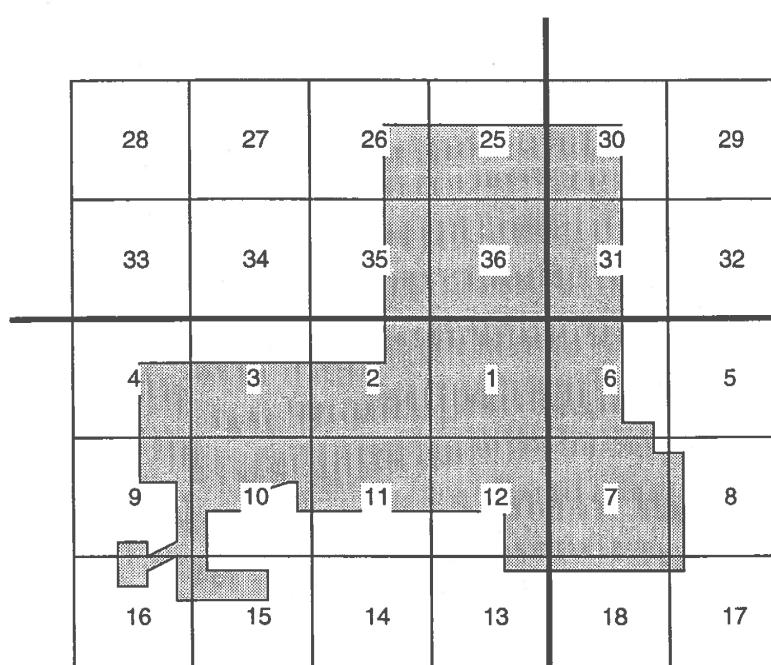
T42N

T41N

65 ft Wyodak

25 ft

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994:

232

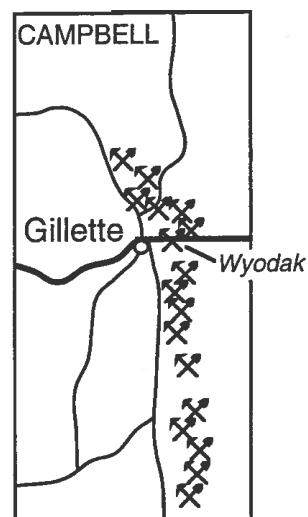
# WYODAK

**Operated by:**  
Wyodak Resources  
**Owned by:**  
Black Hills Corporation  
**Mine Start-up Date:** 1925

**Mine Manager**  
Jim Williams  
**Mailing Address**  
131-26 Highway 51  
Gillette, WY 82718  
**Phone:** (307) - 682-3410

EXPLANATION

- County Seat
- Interstate Highway
- - US or State Highway
- ✗ Surface Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Powder River  
**County:** Campbell  
**Mine Type:** Surface  
**Number of Acres Permitted:** 2,934

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	7,925	7,967	7,948
% Ash:	7.90	6.79	6.99
% Sulfur:	0.66	0.55	0.54
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.67	1.39	1.36

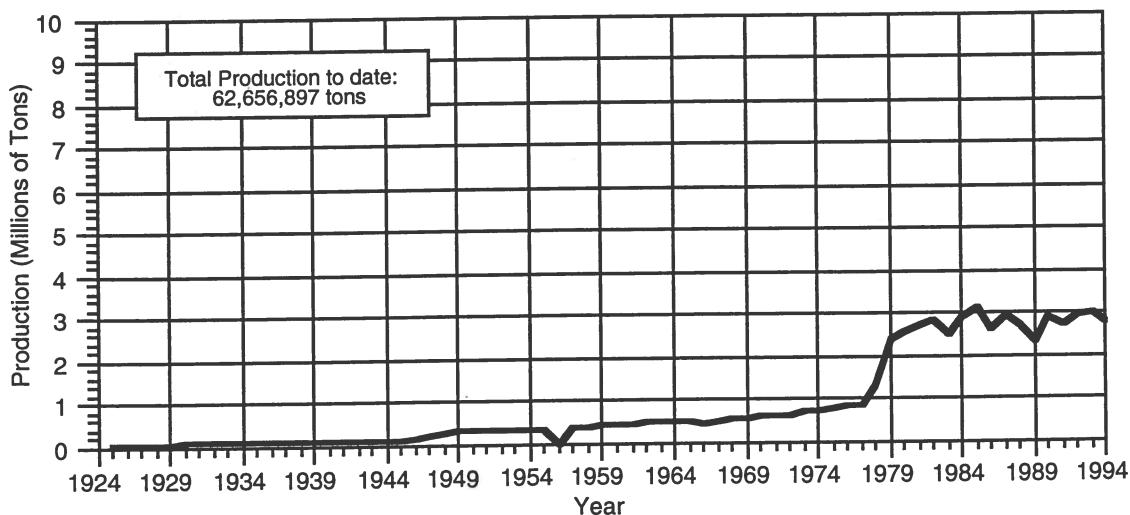
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel  
**Coal:** Front-end Loader and Conveyer  
**Average Bed Thickness :** 90 ft  
**Average Overburden Thickness :** 60 ft  
**Range in Overburden Thickness :** 30-160 ft

**Permitted Remaining Mineable Reserves:** 154.9 million st  
**Average Recovery Factor:** 90.0%  
**1994 Production:** 2,795,942 st  
**1994 Air Quality Limits:** 10 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# WYODAK

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

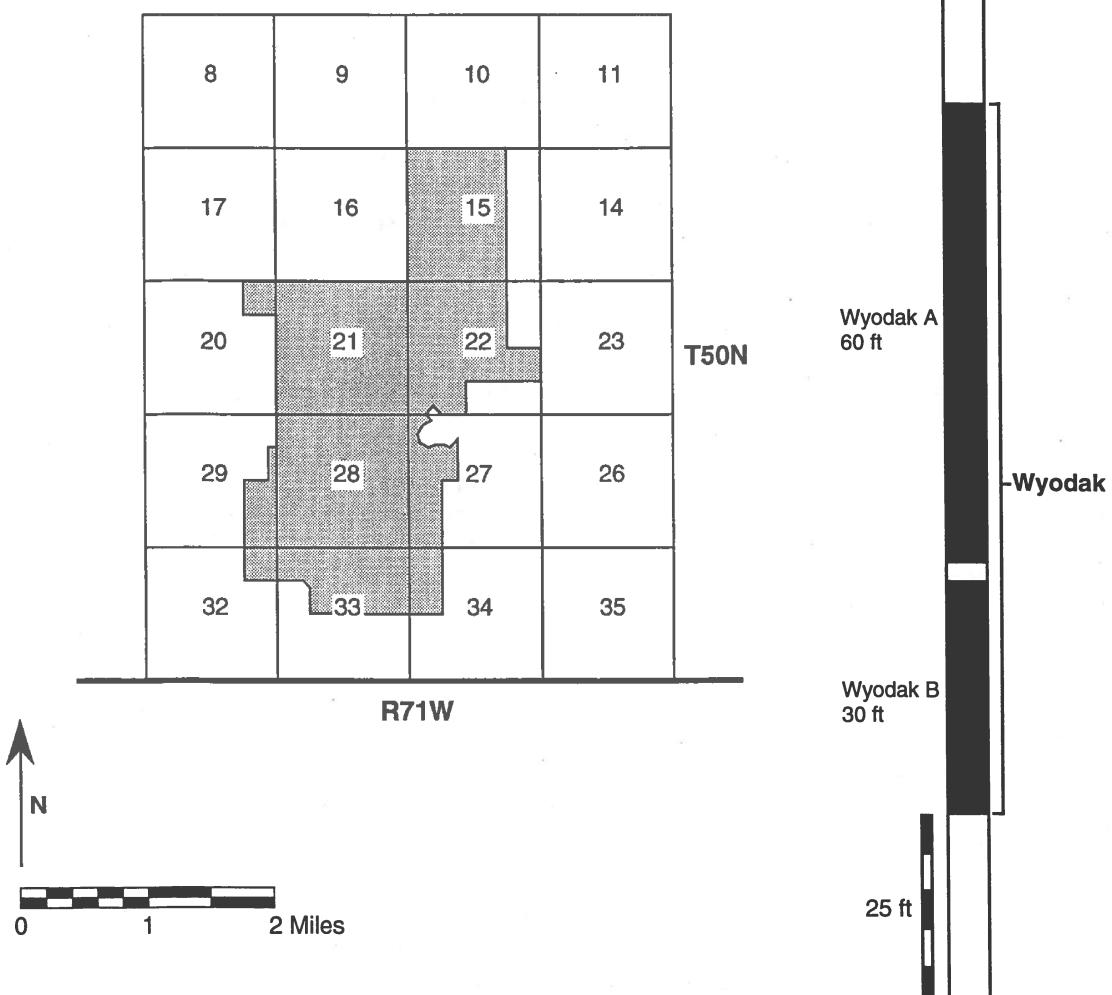
Age: Tertiary/Paleocene

Formation: Fort Union

Member: Tongue River

Zone/Bed Name(s): Wyodak (Upper & Lower Wyodak)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994:

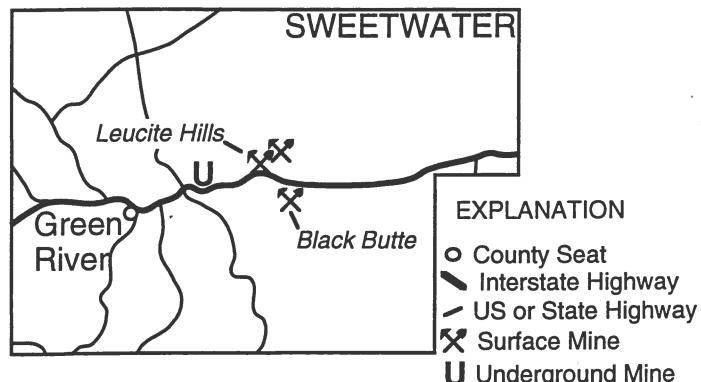
54

## **ACTIVE MINES IN THE GREEN RIVER COALFIELD**

<u>MINE</u>	<u>PAGES</u>
BLACK BUTTE & LEUCITE HILLS	49-50
JIM BRIDGER	51-52
SWANSON	53-54

# BLACK BUTTE & LEUCITE HILLS

**Operated by:**  
Black Butte Coal Company  
**Owned by:**  
Kiewit Mining Group  
**Mine Start-up Date:** 1978  
**Mine Manager**  
Harvey Keene  
**Mailing Address**  
P.O. Box 98  
Point of Rocks, WY 82942  
**Phone:** (307) - 382-6200



## GEOGRAPHIC INFORMATION

**Coal Field:** Green River  
**County:** Sweetwater  
**Mine Type:** Surface  
**Number of Acres Permitted:** 44,341

## AVERAGE DELIVERED QUALITY

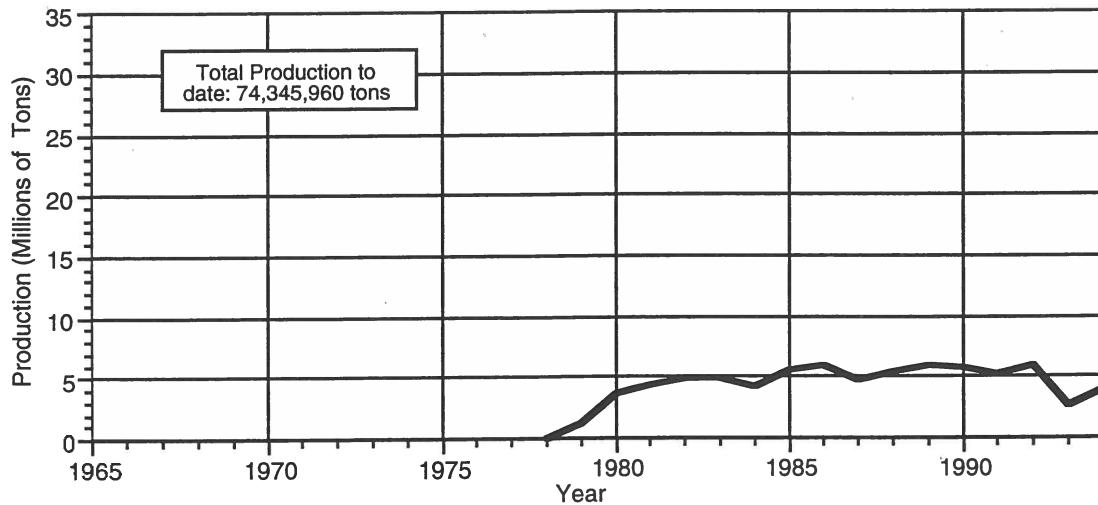
Apparent Rank:	Subbituminous/Bituminous		
	1992	1993	1994
Btu/lb:	9,601	9,698	9,721
% Ash:	8.43	8.83	8.11
% Sulfur:	0.52	0.54	0.53
SO <sub>2</sub> (lbs)/mmBtu: <sup>+</sup>	1.07	1.12	1.09

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dragline, Truck and Shovel      **Permitted Remaining Mineable Reserves:** 80.6 million st  
**Coal:** Truck and Shovel      **Average Recovery Factor:** 90.0%  
**Average Bed Thickness :** 26 ft\*      **1994 Production:** 4,029,060 st  
**Average Overburden Thickness :** 120 ft\*      **1994 Air Quality Limits:** 9.5 million st  
**Range in Overburden Thickness :** 0-150 ft

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# BLACK BUTTE & LEUCITE HILLS

## STRATIGRAPHIC SECTION

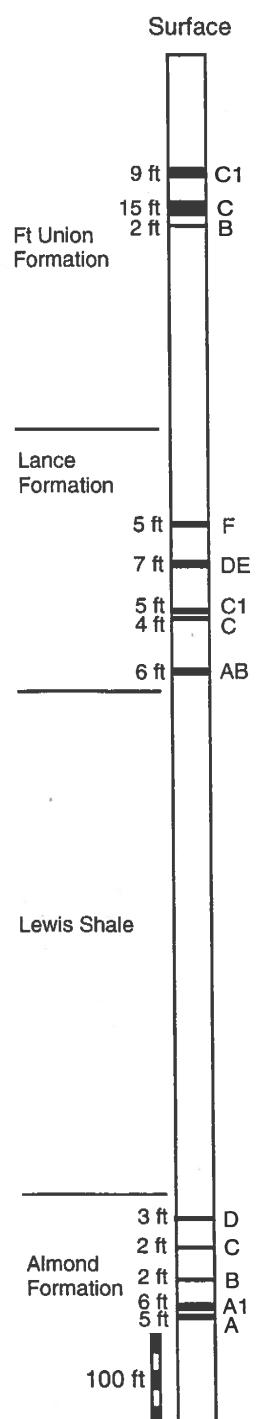
### GEOLOGICAL INFORMATION

Age: Late Cretaceous and Tertiary (Paleocene)

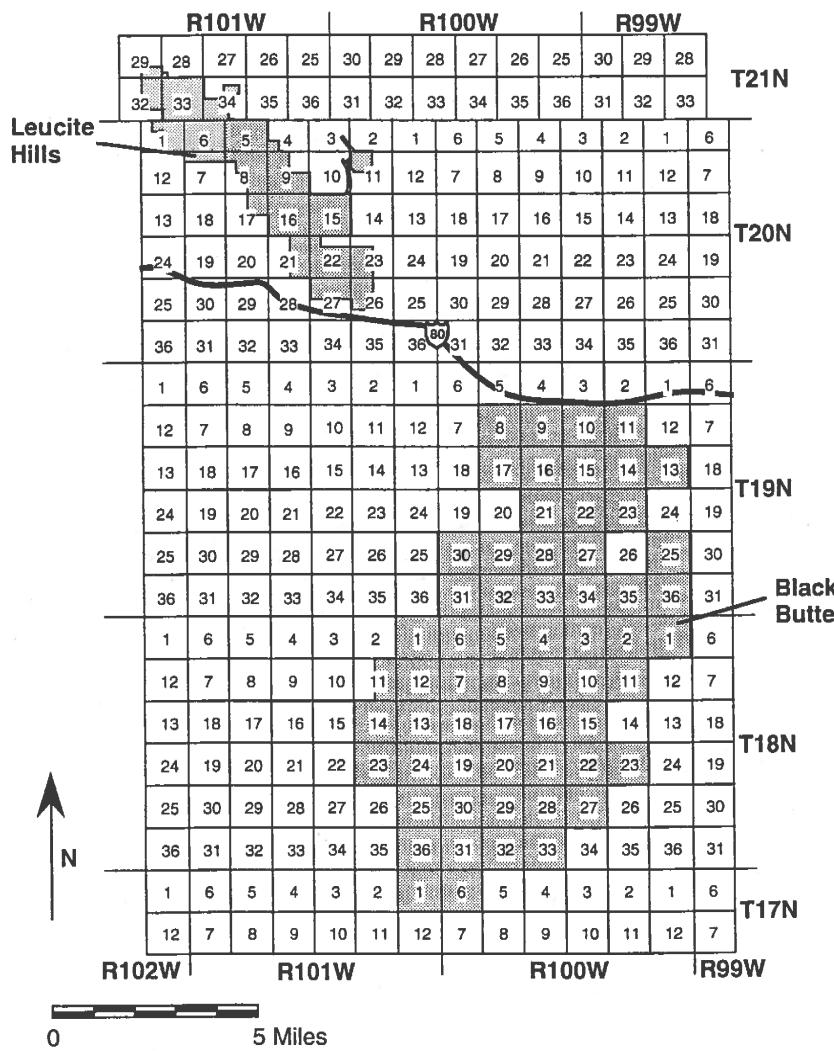
Formation: Almond (Mesaverde Group), Lance, and Fort Union

Member: None recognized

Bed Name(s): A, B, C, D, E, and F



### MINE LOCATION AND BOUNDARIES

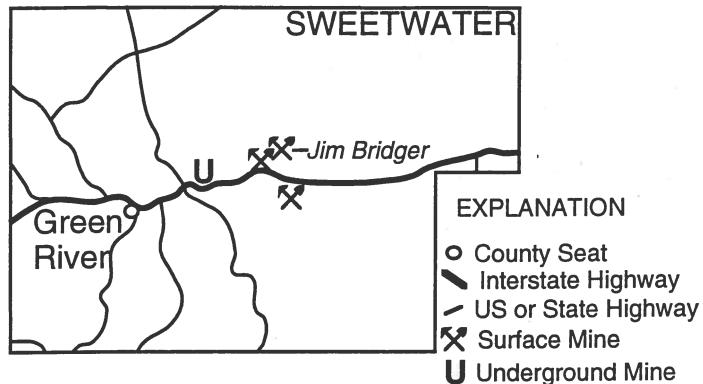


Number of Employees in 1994: 274

# JIM BRIDGER

**Operated by:**  
Bridge Coal Company  
**Owned by:**  
PacifiCorp/Idaho Power  
**Mine Start-up Date:** 1970

**Mine Manager**  
Keith Sinsel  
**Mailing Address**  
P.O. Box 2068  
Rock Springs, WY 82901  
**Phone:** (307) - 382-9741



## GEOGRAPHIC INFORMATION

**Coal Field:** Green River  
**County:** Sweetwater  
**Mine Type:** Surface  
**Number of Acres Permitted:** 20,470

## AVERAGE DELIVERED QUALITY

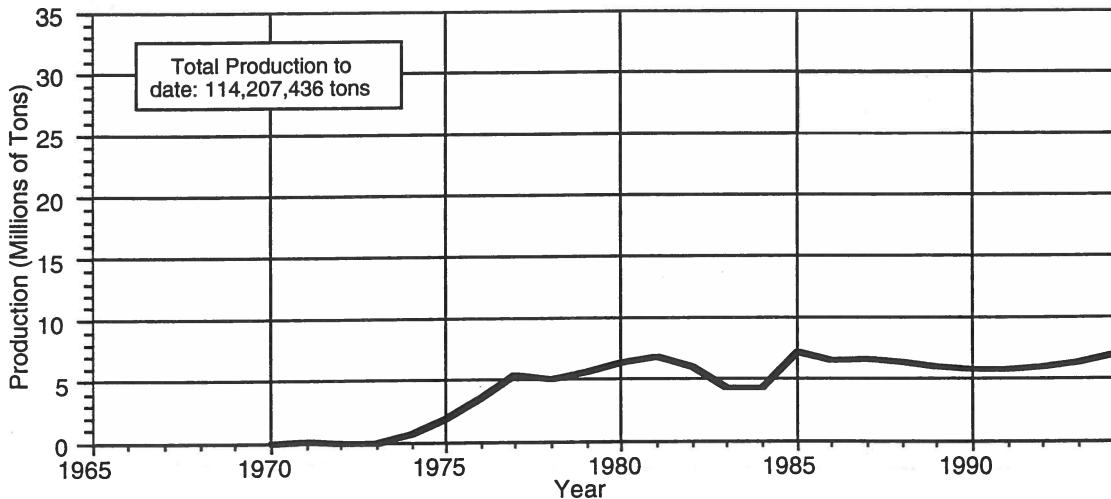
Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	9,539	9,482	9,338
% Ash:	10.54	10.27	11.40
% Sulfur:	0.59	0.60	0.62
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.23	1.26	1.32

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dragline, Truck and Shovel      **Permitted Remaining Mineable Reserves:** 124.8 million st  
**Coal:** Truck and Shovel      **Average Recovery Factor:** 90.0%  
**Average Bed Thickness :** 28 ft\*      **1994 Production:** 7,036,084 st  
**Average Overburden Thickness :** 60 ft      **1994 Air Quality Limits:** 7.9 million st  
**Range in Overburden Thickness :** 50-200 ft

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# JIM BRIDGER

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

**Age:** Tertiary/Paleocene  
**Formation:** Fort Union  
**Member:** None recognized  
**Bed Name(s):** Deadman (#6, 5, 4, 3, 2, 1)

Surface

2 ft  
Deadman #6

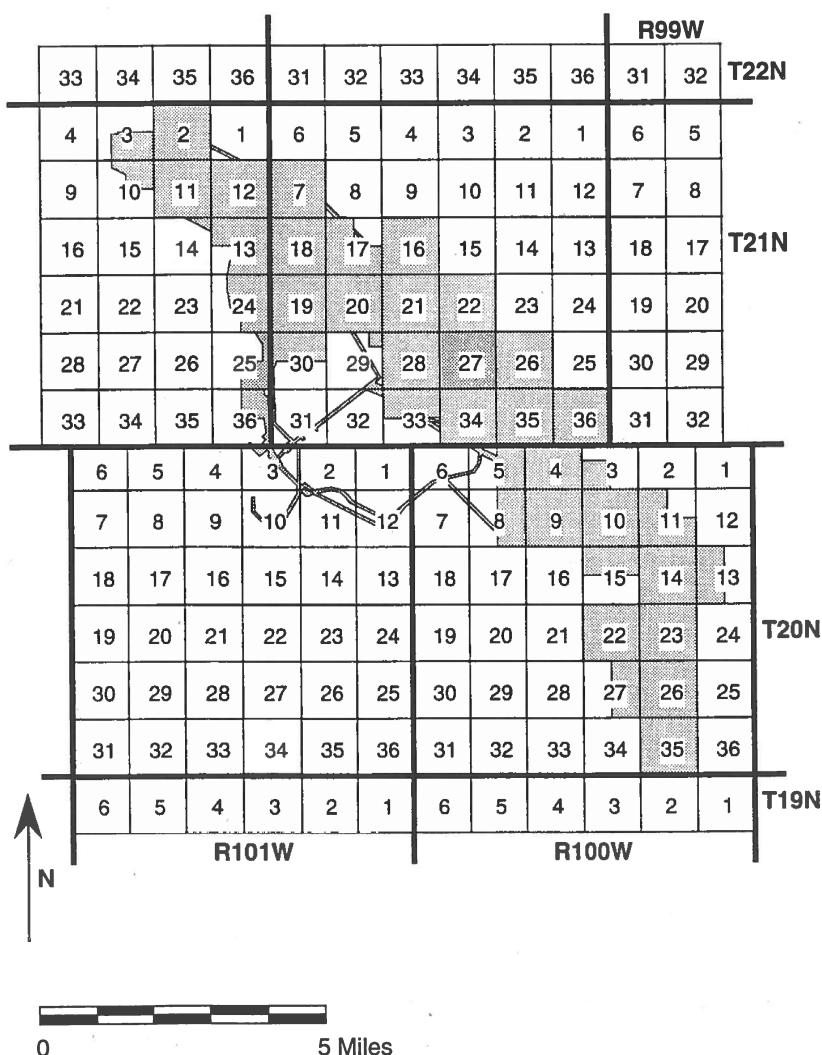
15 ft  
Deadman #4 & #5

5 ft  
Deadman #3

7 ft  
Deadman #1 & #2

25 ft

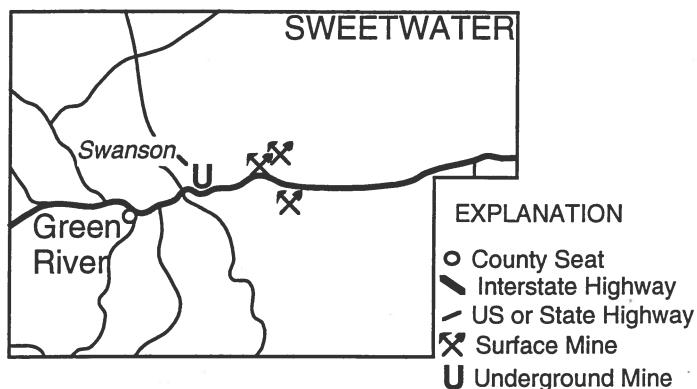
### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 392

# SWANSON

**Operated by:**  
Cougar Coal Company  
**Owned by:**  
Cougar Coal Company  
**Mine Start-up Date:** 1984  
**Mine Manager**  
George Herne  
**Mailing Address**  
P.O. Box 6117  
Rock Springs, WY 82901  
**Phone:** (307) - 382-8022



## GEOGRAPHIC INFORMATION

**Coal Field:** Green River  
**County:** Sweetwater  
**Mine Type:** Deep  
**Number of Acres Permitted:** 515

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
Btu/lb:	1992	1993	1994
% Ash:	7.05	7.51	7.02
% Sulfur:	1.22	1.15	1.19
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	2.23	2.13	2.20

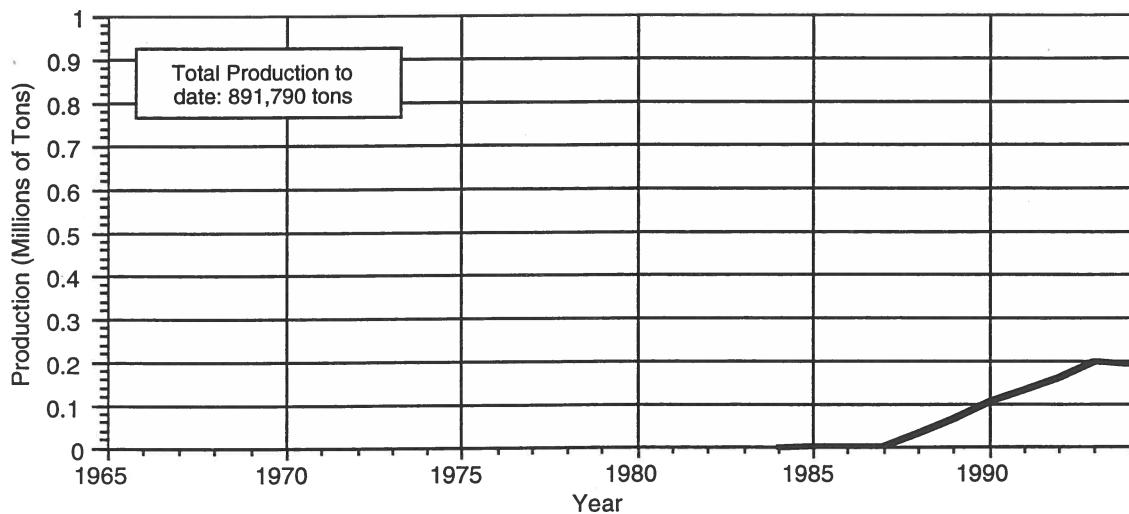
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:**  
**Coal:** Conventional  
**Average Bed Thickness :** 4 ft  
**Average Overburden Thickness :** 350 ft  
**Range in Overburden Thickness :** 100-700 ft

**Permitted Remaining Mineable Reserves:** 3.5 million st  
**Average Recovery Factor:** 60.0%  
**1994 Production:** 190,936 st  
**1994 Air Quality Limits:** 0.25 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# SWANSON

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Cretaceous

Formation: Rock Springs (Mesaverde Group)

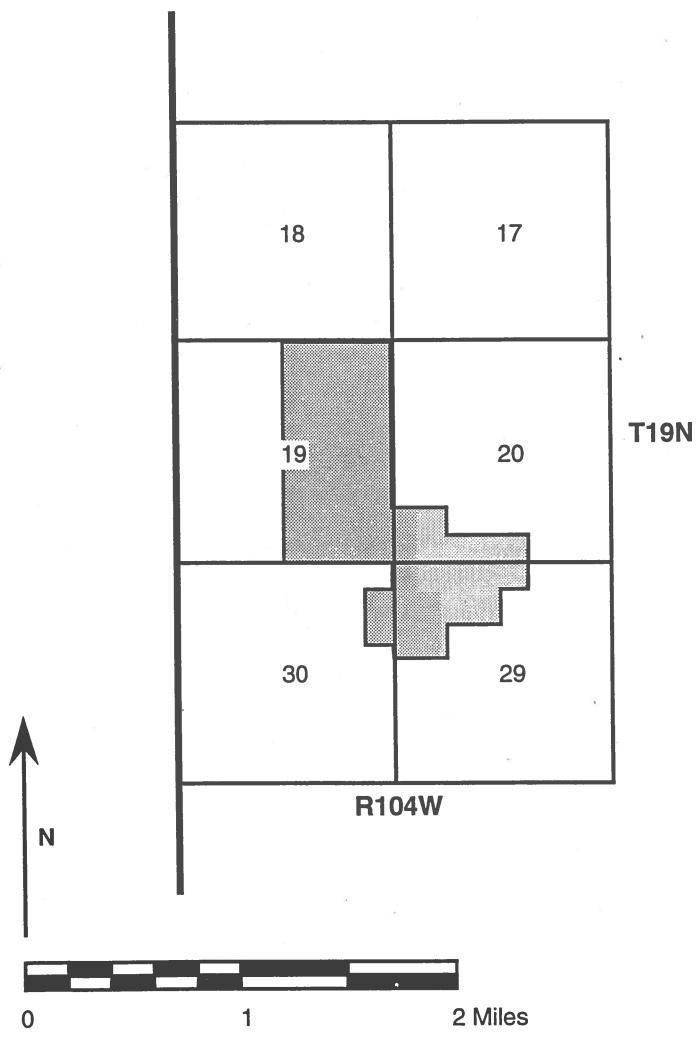
Member:

Bed Name(s): Vandyke (Rock Springs #15)

Surface



### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 82

## **ACTIVE MINES IN THE HAMS FORK COALFIELD**

<u>MINE</u>	<u>PAGES</u>
KEMMERER	56-57
SKULL POINT	58-59

# KEMMERER

**Operated by:**  
Pittsburgh & Midway Coal Mining Company

**Owned by:**  
Chevron Corporation

**Mine Start-up Date:** 1909  
(Originally Sorenson Strip Mine)

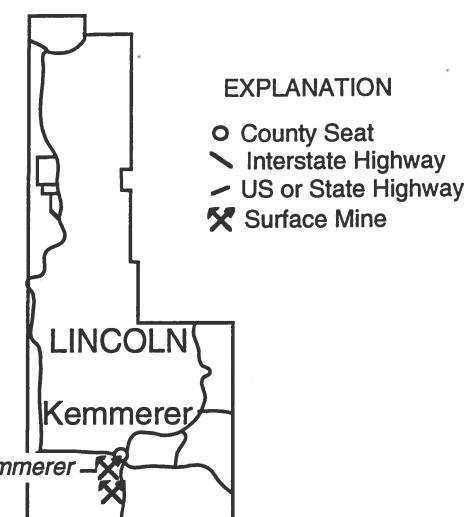
**Mine Manager**

Clifford R. Rice

**Mailing Address**

P.O. Box 950  
Kemmerer, WY 83101

**Phone:** (307) - 828-2200



## GEOGRAPHIC INFORMATION

**Coal Field:** Hams Fork  
**County:** Lincoln  
**Mine Type:** Surface  
**Number of Acres Permitted:** 10,572

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	9,862	9,775	9,855
% Ash:	4.76	5.20	5.20
% Sulfur:	0.65	0.64	0.72
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.32	1.32	1.46

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel

**Coal:** Truck and Front end Loader

**Range in Bed Thickness:** 5-100 ft\*

**Average Overburden Thickness:** 1000ft to Adaville #1

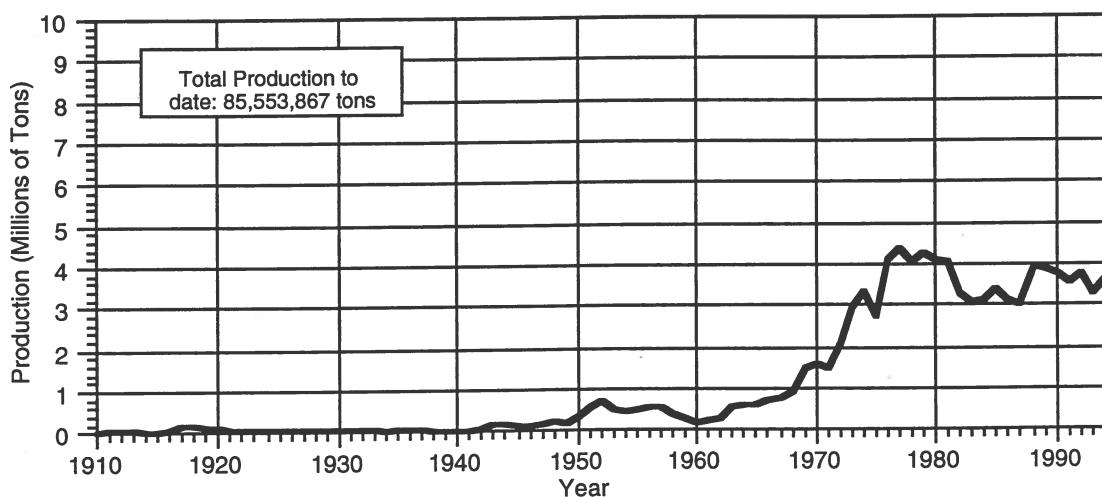
**Range in Overburden Thickness:** 0-1,300 ft

**Permitted Remaining Mineable Reserves:** 115.9 million st

**Average Recovery Factor:** 95.0%

**1994 Production:** 3,940,630 st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# KEMMERER

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

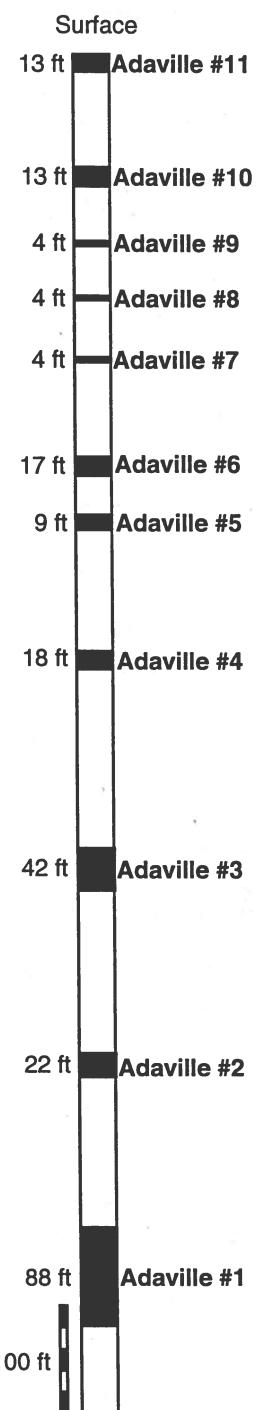
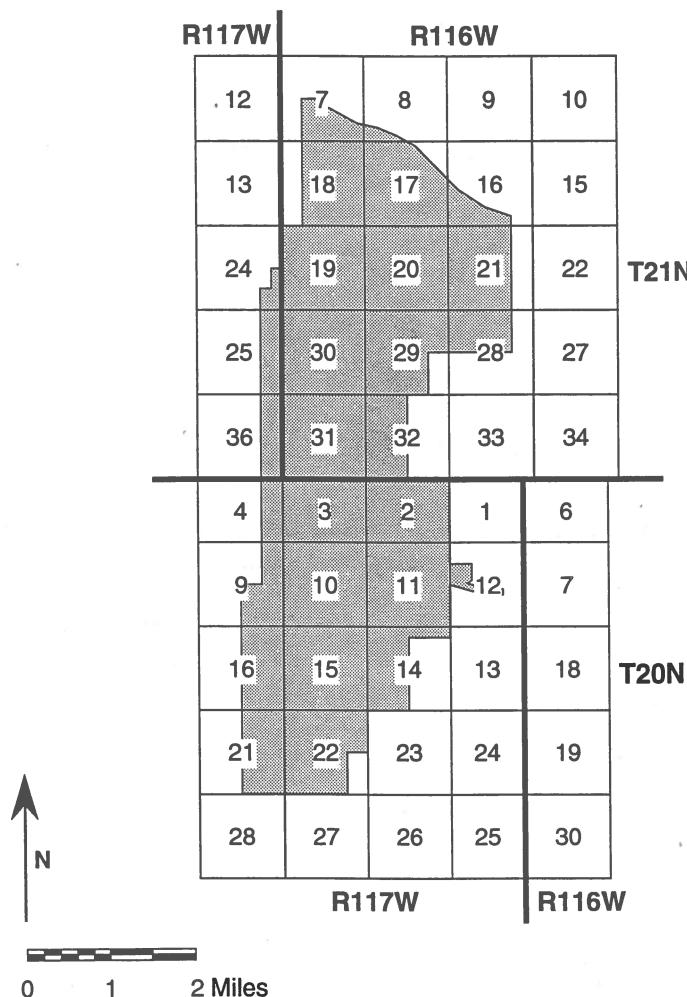
Age: Late Cretaceous

Formation: Adaville

Member:

Bed Name(s): Adaville (#1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11)

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 307

# SKULL POINT

**Operated by:**

FMC Corporation

**Owned by:**

FMC Corporation

**Mine Start-up Date:** 1976

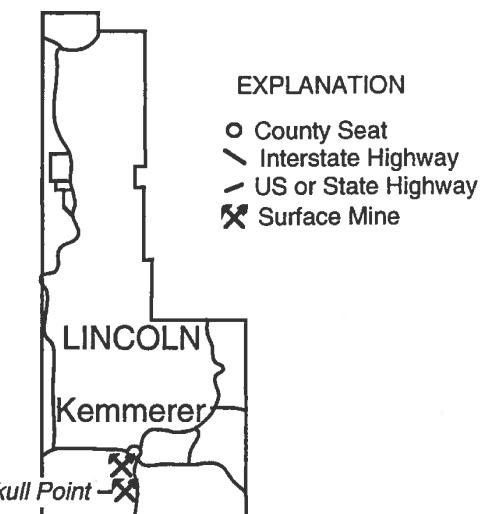
**Mine Manager**

James L. Fenton

**Mailing Address**

P.O. Box 750  
Kemmerer, WY 83101

**Phone:** (307) - 877-3916



## GEOGRAPHIC INFORMATION

**Coal Field:** Hams Fork

**County:** Lincoln

**Mine Type:** Surface

**Number of Acres Permitted:** 2,819

## AVERAGE DELIVERED QUALITY

**Apparent Rank:** Subbituminous

1992      1993      1994

Btu/lb: N/A      10,200      10,250

% Ash: N/A      3.98      4.08

% Sulfur: N/A      0.85      0.83

SO<sub>2</sub> (lbs)/mmBtu<sup>†</sup>: N/A      1.67      1.62

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Truck and Shovel

**Permitted Remaining Mineable Reserves:** 10.9 million st

**Coal:** Loader and Backhoe

**Average Recovery Factor:** 90.0%

**Average Bed Thickness :** 80 ft\*

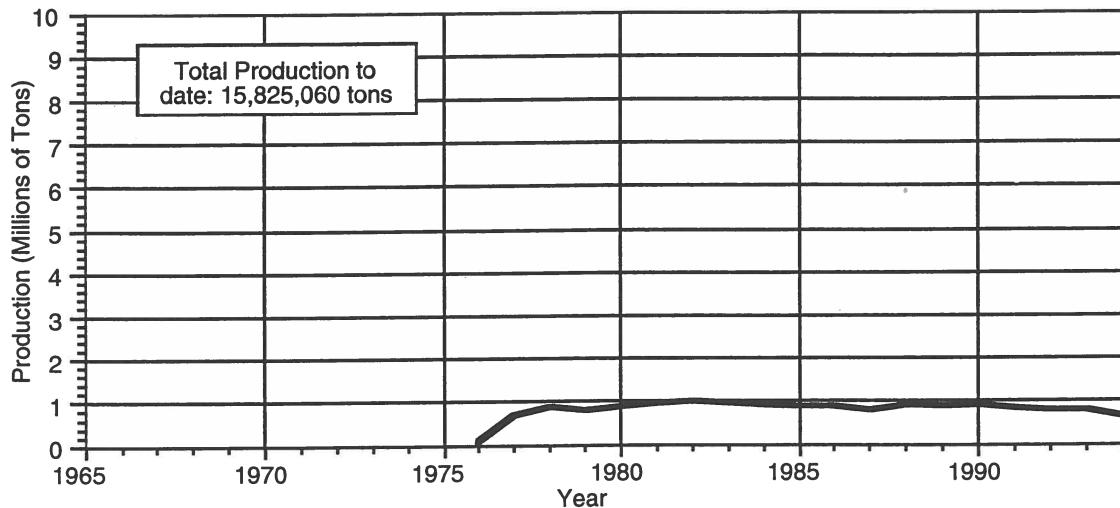
**1994 Production:** 670,934 st

**Average Overburden Thickness :** 700ft to Adaville #1

**1994 Air Quality Limits:** 1.5 million st

**Range in Overburden Thickness :** 40-700 ft

## PRODUCTION HISTORY



# SKULL POINT

## STRATIGRAPHIC SECTION

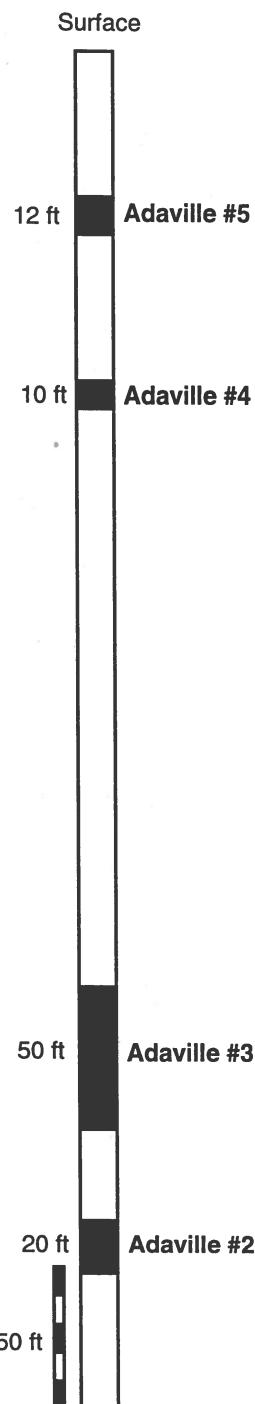
### GEOLOGICAL INFORMATION

**Age:** Upper Cretaceous

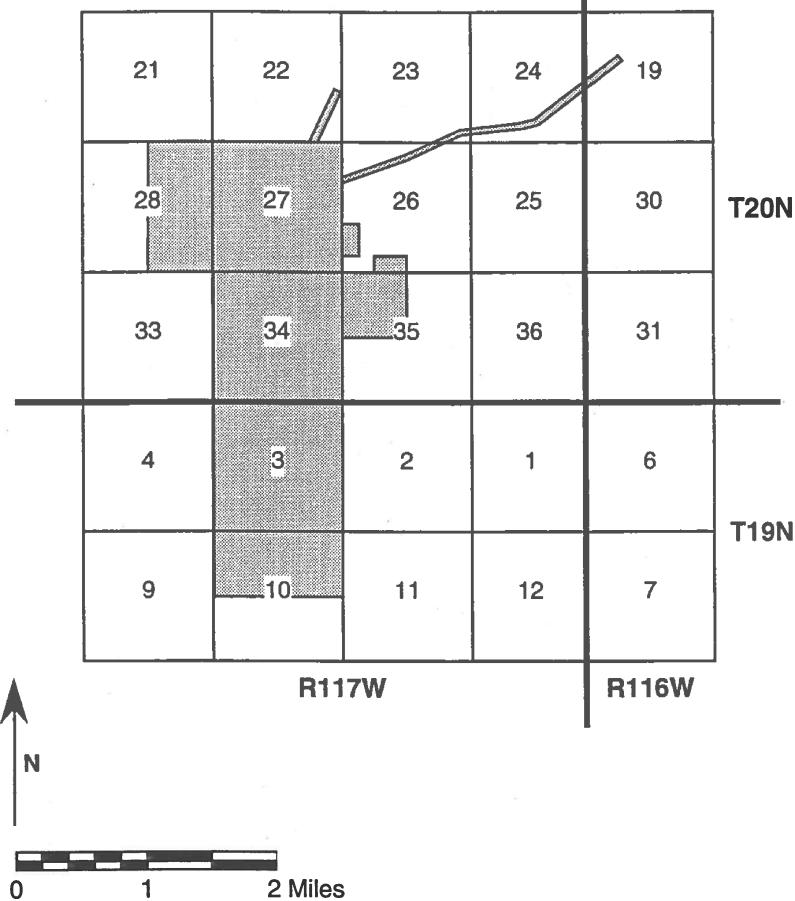
**Formation:** Frontier, Adaville

**Member:**

**Bed Name(s):** Adaville (#1, 2, 3, 4, 5, 6, 7, 8, 9, 10)



### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 84

**ACTIVE MINES IN THE  
HANNA COALFIELD**

<u>MINE</u>	<u>PAGES</u>
MEDICINE BOW	61-62
SHOSHONE #1	63-64

# MEDICINE BOW

## Operated by:

Arch of Wyoming, Incorporated

## Owned by:

Arch Minerals Corporation

**Mine Start-up Date:** 1975

## Mine Manager

Thomas S. Brown

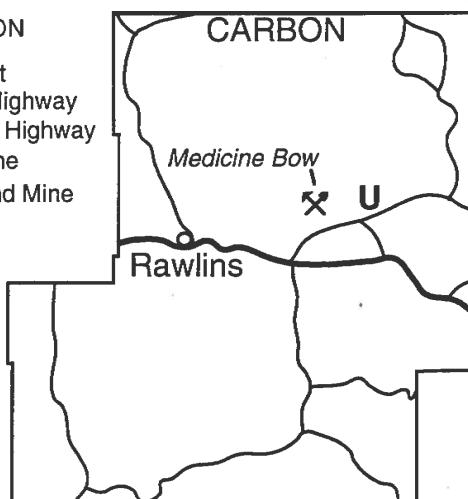
## Mailing Address

P. O. Box 460  
Hanna, WY 82327

**Phone:** (307) - 325-6581

## EXPLANATION

- County Seat
- Interstate Highway
- US or State Highway
- ✗ Surface Mine
- █ Underground Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Hanna

**County:** Carbon

**Mine Type:** Surface

**Number of Acres Permitted:** 20,352

## AVERAGE DELIVERED QUALITY

**Apparent Rank:** Subbituminous

	1992	1993	1994
Btu/lb:	10,406	10,419	10,472
% Ash:	8.77	8.55	7.16
% Sulfur:	0.41	0.50	0.42
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	0.78	0.96	0.81

## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Dragline

**Coal:** Truck and Shovel, Arch-veyor®

**Average Bed Thickness :** 29 ft\*

**Average Overburden Thickness :** 130 ft

**Range in Overburden Thickness :** 0-150 ft

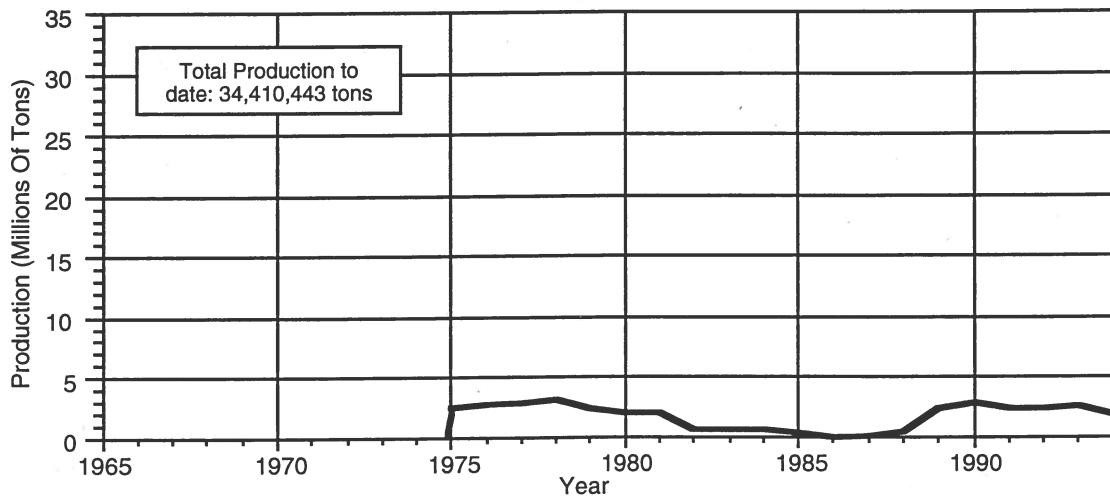
**Permitted Remaining Mineable Reserves:** 31.2 million st

**Average Recovery Factor:** 89.0%

**1994 Production:** 1,838,300 st

**1994 Air Quality Limits:** 4 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

# MEDICINE BOW

## STRATIGRAPHIC SECTION

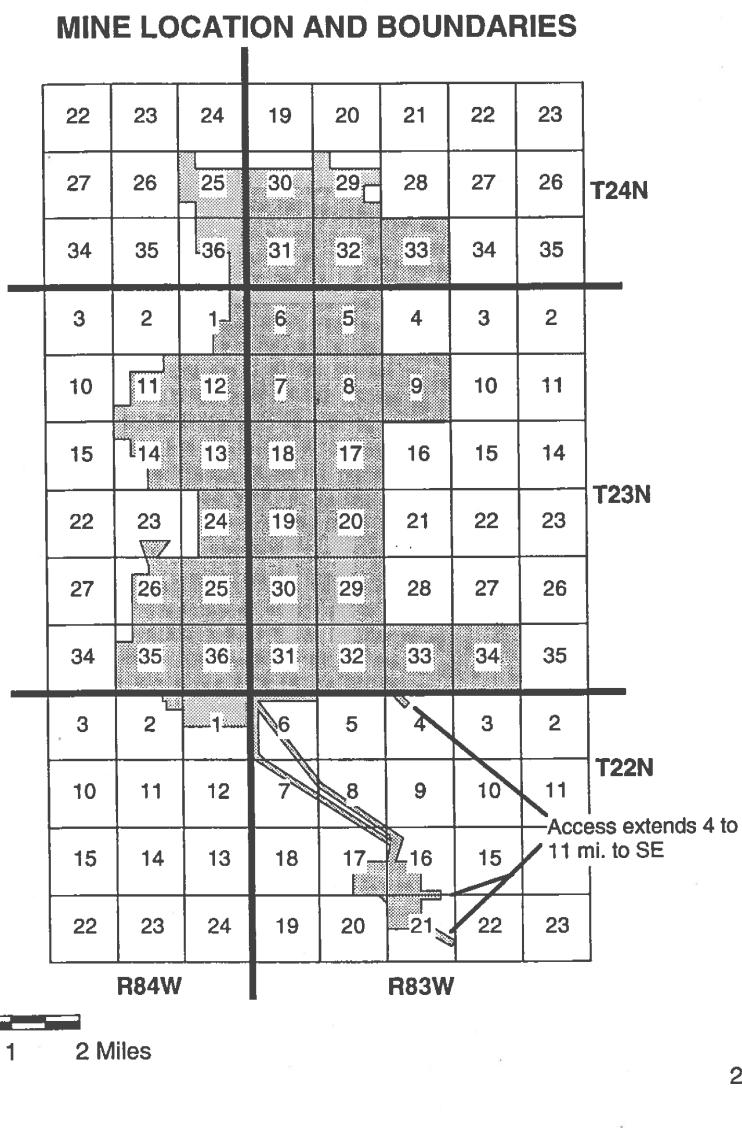
### GEOLOGICAL INFORMATION

**Age:** Tertiary/Paleocene

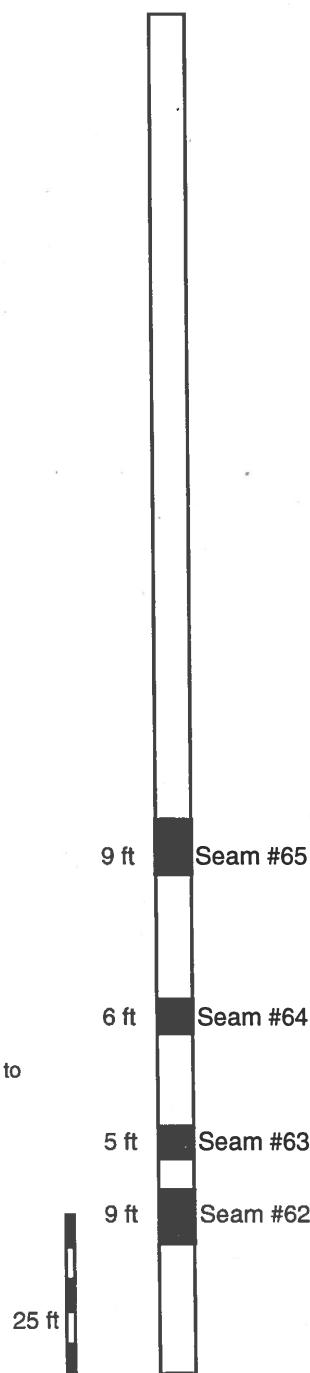
**Formation:** Ferris

**Member:** None recognized

**Bed Name(s):** #62, #63, #64, #65, (#50, #51, #52, #53 - at mine)



Surface



Number of Employees in 1994: 76

# SHOSHONE #1

**Operated by:**  
Cyprus Shoshone Coal Company

**Owned by:**  
Cyprus-AMAX Corporation

**Mine Start-up Date:** 1986

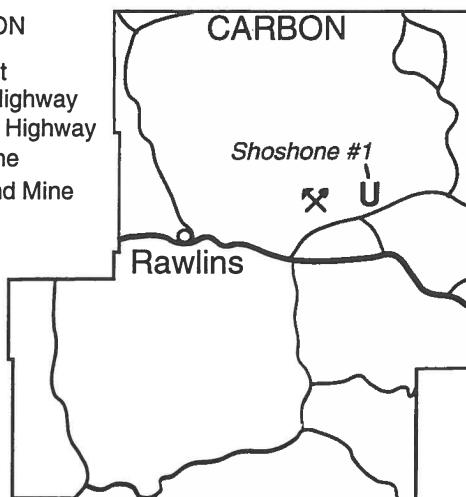
**Mine Manager**  
Kemal Williamson

**Mailing Address**  
P. O. Box 830  
Hanna, WY 82327

**Phone:** (307) - 325-9471

## EXPLANATION

- County Seat
- Interstate Highway
- US or State Highway
- ✗ Surface Mine
- U Underground Mine



## GEOGRAPHIC INFORMATION

**Coal Field:** Hanna  
**County:** Carbon  
**Mine Type:** Deep  
**Number of Acres Permitted:** 5,235

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	11,171	11,173	11,232
% Ash:	6.66	6.70	6.04
% Sulfur:	0.60	0.59	0.59
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	1.08	1.06	1.04

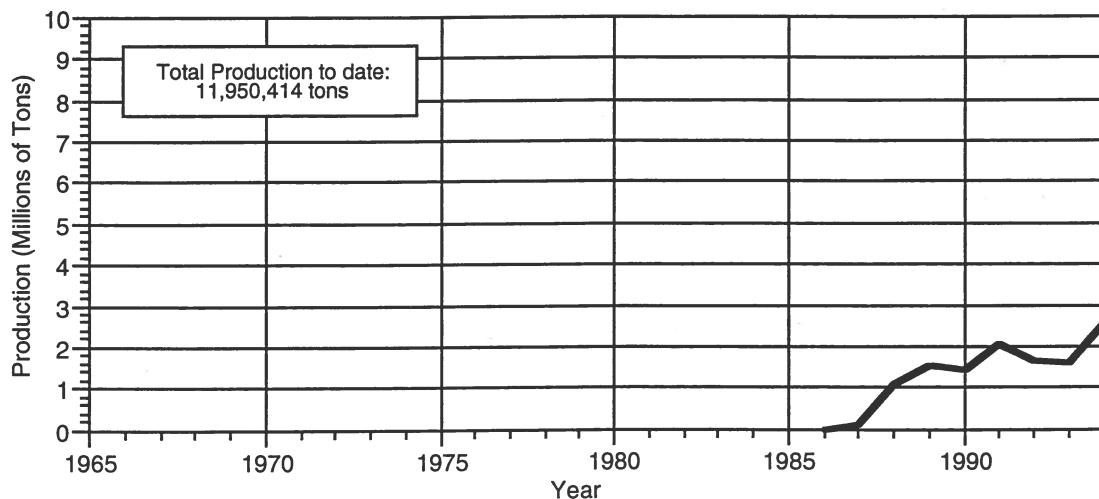
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:**  
**Coal:** Longwall, continuous miner  
**Average Bed Thickness :** 14 ft  
**Average Overburden Thickness :** 900 ft  
**Range in Overburden Thickness :** 200-1100 ft

**Permitted Remaining Mineable Reserves:** 28.6 million st  
**Average Recovery Factor:** 58.9%  
**1994 Production:** 2,543,441 st  
**1994 Air Quality Limits:** 3.5 million st

## PRODUCTION HISTORY



\* Denotes data for more than one seam  
+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

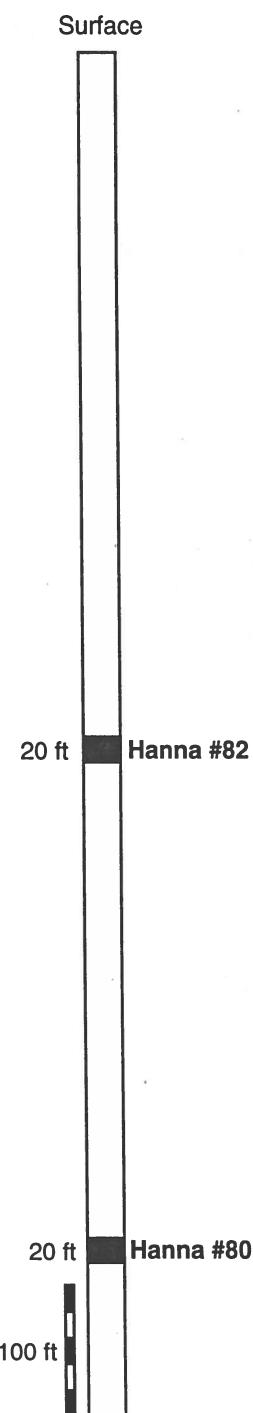
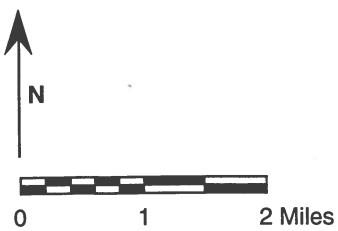
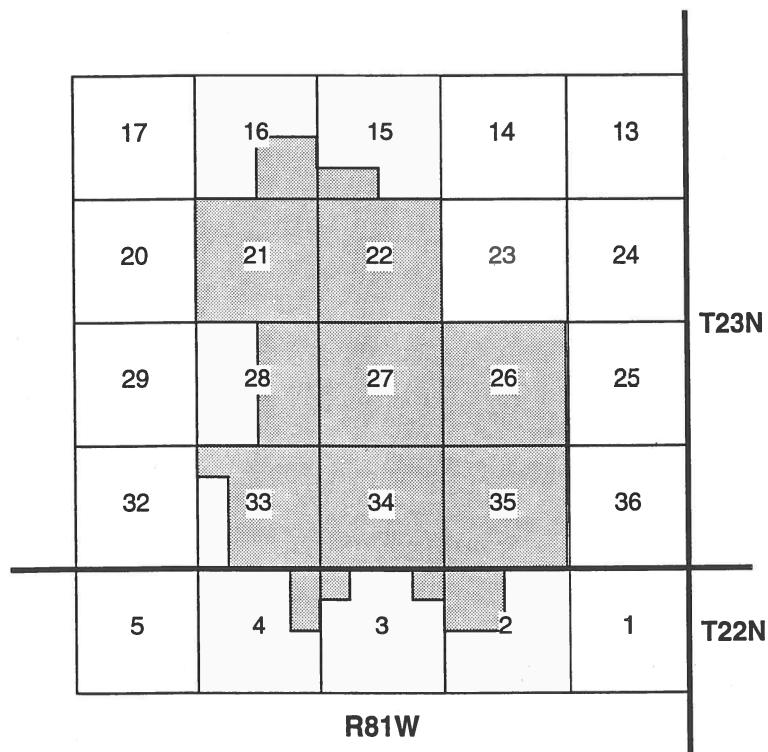
# SHOSHONE #1

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Hanna  
Member: None recognized  
Bed Name(s): Hanna #80

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 185

## **ACTIVE MINES IN THE BIGHORN COALFIELD**

<u>MINE</u>	<u>PAGES</u>
GRASS CREEK	66-67

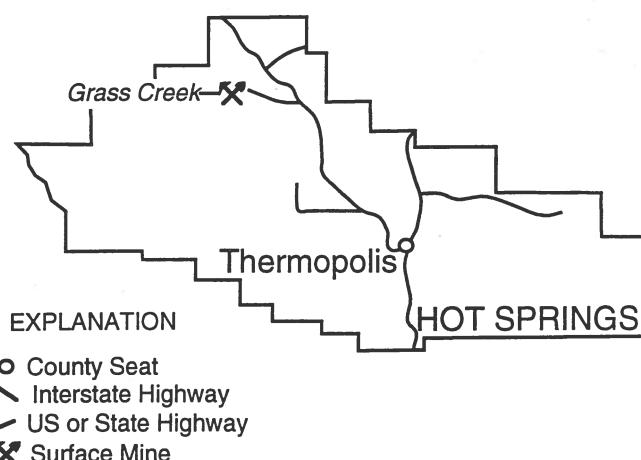
# GRASS CREEK

**Operated by:**  
Northwestern Resources Company

**Owned by:**  
Entech Incorporated

**Mine Start-up Date:** 1969

**Mine Manager**  
Mike Shea  
**Mailing Address**  
P.O. Box 729  
Thermopolis, WY 82443  
**Phone:** (307) - 864-9248



## GEOGRAPHIC INFORMATION

**Coal Field:** Bighorn  
**County:** Hot Springs  
**Mine Type:** Surface  
**Number of Acres Permitted:** 3,360

## AVERAGE DELIVERED QUALITY

Apparent Rank:	Subbituminous		
	1992	1993	1994
Btu/lb:	N/A	N/A	N/A
% Ash:	N/A	N/A	N/A
% Sulfur:	N/A	N/A	N/A
SO <sub>2</sub> (lbs)/mmBtu <sup>+</sup> :	N/A	N/A	N/A

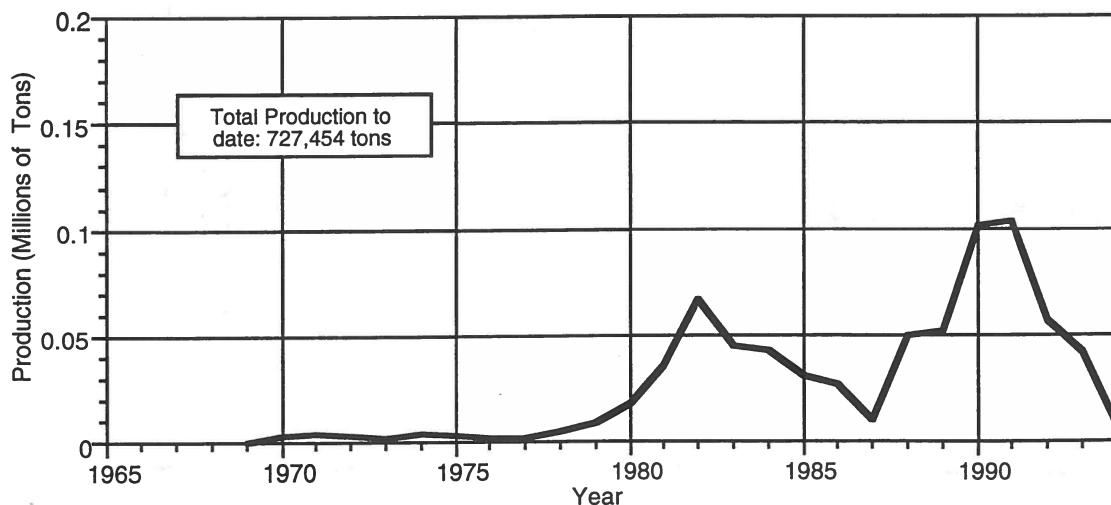
## MINING METHODS, PRODUCTION, AND RESERVES

### Method of Mining

**Overburden:** Scraper and Dozer  
**Coal:** Truck and Shovel  
**Average Bed Thickness :** 34\*  
**Average Overburden Thickness :** 70  
**Range in Overburden Thickness :** 0-200

**Permitted Remaining Mineable Reserves:** 2.2 million  
**Average Recovery Factor:** 88.0%  
**1994 Production:** 5,564  
**1994 Air Quality Limits:** 0.35 million

## PRODUCTION HISTORY



\* Denotes data for more than one seam

+ Pounds of SO<sub>2</sub> per million British Thermal Units (Btu)

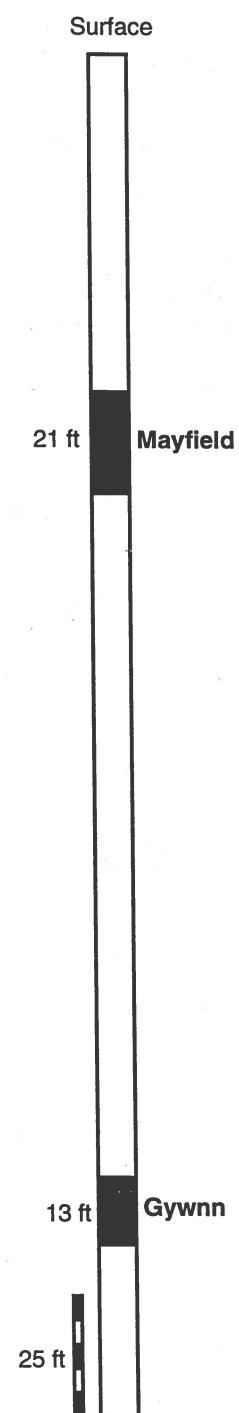
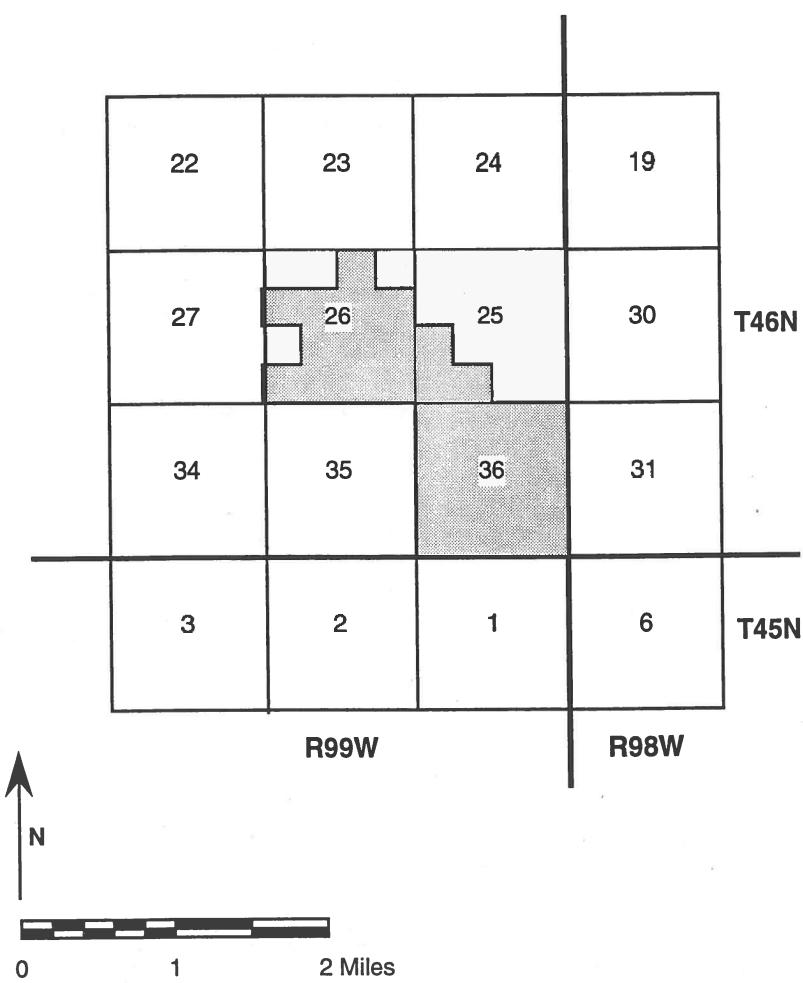
# GRASS CREEK

## STRATIGRAPHIC SECTION

### GEOLOGICAL INFORMATION

Age: Tertiary/Paleocene  
Formation: Fort Union  
Member: None recognized  
Bed Name(s): Mayfield, Gwynn

### MINE LOCATION AND BOUNDARIES



Number of Employees in 1994: 4

# 1994 WYOMING STEAM COAL MARKET DIRECTORY

<u>Field Name</u>	<u>Field Description</u>
Mine	mine where coal originated
Plant State	state where receiving plant is located
Utility	name of utility that owns receiving plant
Plant	name of receiving plant
CT	contract type (contract or spot)
Tons	amount of coal received at plant (in tons)
Btu/lb	calorific value of coal received at plant (in British Thermal Units per pound)
% Sulf	amount of sulfur in coal received at plant (in percent)
LbSO <sub>2</sub> /MMBtu	emission of sulfur dioxide created by combustion of coal received at plant (in pounds of sulfur dioxide per million British Thermal Units)
% Ash	amount of ash in coal received at plant (in percent)
\$/Ton	delivered price of coal received at plant (in dollars per ton)
Cents/MMBtu	energy generation cost of coal received at plant (in cents per million British Thermal Units)

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	Plant	Plant	CT	Tons	Blu/Lb	%Sulf	MMBu	%Ash	\$/Ton	MMBu	Cents/MMBu
ANTELOPE	IN COMMONWEALTH EDISON CO OF IN	STATELINE	C	177,000	0.02	8834	0.31	0.71	5.31	49.68	280.25	
ANTELOPE	IL COMMONWEALTH EDISON CO.	CRAWFORD	C	825,000	0.11	8846	0.31	0.70	5.27	53.93	304.82	
ANTELOPE	IL COMMONWEALTH EDISON CO.	FISK	C	152,000	0.02	8826	0.31	0.73	5.24	53.41	309.54	
ANTELOPE	IL COMMONWEALTH EDISON CO.	JOLIET 9	C	73,000	0.01	8848	0.32	0.72	5.40	52.59	297.21	
ANTELOPE	IL COMMONWEALTH EDISON CO.	POWERTON	C	271,000	0.04	8849	0.30	0.69	5.30	52.26	295.26	
ANTELOPE	IL COMMONWEALTH EDISON CO.	WAUKEGAN	C	614,000	0.08	8870	0.30	0.68	5.27	50.48	284.53	
ANTELOPE	IL COMMONWEALTH EDISON CO.	WILL COUNTY	C	671,000	0.09	8862	0.30	0.67	5.21	53.75	303.24	
ANTELOPE	MI CONSUMERS POWER CO.	CAMPBELL	S	141,300	0.02	8840	0.23	0.52	5.26	22.62	127.92	
ANTELOPE	MI CONSUMERS POWER CO.	COBB	C	259,400	0.03	9131	0.31	0.67	4.60	25.02	137.02	
ANTELOPE	MI CONSUMERS POWER CO.	COBB	S	322,000	0.04	9021	0.51	1.13	6.82	21.89	121.32	
ANTELOPE	MI CONSUMERS POWER CO.	WEADOCK	S	25,800	0.00	8754	0.24	0.56	5.58	22.47	128.32	
ANTELOPE	MI CONSUMERS POWER CO.	WEADOCK	S	193,000	0.03	9054	0.51	1.12	6.65	22.10	122.01	
ANTELOPE	MI CONSUMERS POWER CO.	MONROE	C	593,000	0.08	8869	0.28	0.64	5.20	18.42	103.84	
ANTELOPE	MI DETROIT EDISON CO.	RIVER ROUGE	C	116,000	0.02	8825	0.25	0.57	5.24	18.42	104.38	
ANTELOPE	MI DETROIT EDISON CO.	ST. CLAIR	C	216,000	0.03	8834	0.25	0.57	5.21	21.29	120.51	
ANTELOPE	GA GEORGIA POWER CO.	SCHERER	S	113,700	0.02	7306	0.28	0.78	4.96	21.53	148.08	
ANTELOPE	IN INDIANA-KENTUCKY ELECTRIC CORP	CLIFTY CREEK	C	276,000	0.04	8792	0.23	0.52	5.07	16.48	93.70	
ANTELOPE	MI LANSING BOARD OF WATER & LIGHT	ECKERT	S	1,700	0.00	9057	0.27	0.60	5.44	25.00	138.01	
ANTELOPE	NE NEBRASKA PUBLIC POWER DISTRICT	GENTLEMAN	S	24,340	0.00	8917	0.20	0.45	5.34	13.61	76.30	
ANTELOPE	NE NEBRASKA PUBLIC POWER DISTRICT	SHELDON	S	11,340	0.00	8830	0.23	0.52	5.90	14.80	83.80	
ANTELOPE	IN NORTHERN INDIANA PUB SERV CO.	MITCHELL-IN	S	67,600	0.01	8906	0.32	0.72	5.21	18.72	105.10	
ANTELOPE	MN NORTHERN STATES POWER CO (MN)	BLACK DOG	C	546,200	0.07	8885	0.27	0.60	5.11	18.57	104.48	
ANTELOPE	MN NORTHERN STATES POWER CO (MN)	HIGH BRIDGE	C	3,100	0.00	8950	0.31	0.69	5.20	19.83	110.80	
ANTELOPE	MN NORTHERN STATES POWER CO (MN)	KING	C	431,900	0.06	8857	0.25	0.57	5.16	18.54	104.67	
ANTELOPE	WY PACIFICORP	JOHNSTON	S	13,000	0.00	8769	0.25	0.57	5.40	11.24	64.10	
ANTELOPE	CO PLATTE RIVER POWER AUTHORITY	RAWHIDE	C	1,094,720	0.15	8854	0.26	0.60	5.21	12.64	71.36	

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Blu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/ LbSO2/
ANTELOPE	MN ROCHESTER PUBLIC UTILS DEPT	SILVER LAKE	S	300	0.00	8800	0.26	0.59	5.50	20.50	116.50	
ANTELOPE	TX SAN ANTONIO PUBLIC SERVICE	DEELY	C	158,790	0.02	8889	0.27	0.59	5.24	19.61	110.32	
ANTELOPE	TX SAN ANTONIO PUBLIC SERVICE	J.K. SPRUCE	C	70,210	0.01	8855	0.31	0.69	5.38	19.89	112.27	
ANTELOPE	MO SPRINGFIELD CITY UTILITIES	SOUTHWEST	S	43,100	0.01	8970	0.31	0.69	4.82	17.67	98.52	
ANTELOPE	MI WISCONSIN ELECTRIC POWER CO	PRESQUE ISLE	S	23,800	0.00	8738	0.28	0.64	4.90	21.20	121.30	
<b>ANTELOPE TOTALS =</b>				7,529,300	1.00	8850	0.30	0.67	5.30	30.88	174.55	

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	Plant	Plant	CT	Tons	Blu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/LbSO <sub>2</sub> /
	State	Utility										
BELLE AYR	AL	ALABAMA POWER CO.	MILLER	S	238,440	0.02	8430	0.28	0.67	4.49	19.31	114.09
BELLE AYR	AR	ARKANSAS POWER & LIGHT CO.	INDEPENDENCE	C	48,800	0.00	8401	0.34	0.81	5.06	19.32	115.00
BELLE AYR	IL	COMMONWEALTH EDISON CO.	CRAWFORD	S	77,000	0.01	8548	0.31	0.73	4.80	21.65	126.64
BELLE AYR	IL	COMMONWEALTH EDISON CO.	FISK	S	10,400	0.00	8548	0.31	0.73	4.80	21.63	126.52
BELLE AYR	IL	COMMONWEALTH EDISON CO.	WAUKEGAN	S	86,000	0.01	8583	0.31	0.72	4.50	20.55	119.70
BELLE AYR	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	S	33,200	0.00	8551	0.31	0.73	4.77	21.66	126.65
BELLE AYR	WI	DAIRYLAND POWER COOPERATIVE	J.P. MADGETT	C	714,600	0.06	8527	0.29	0.69	4.55	24.88	145.90
BELLE AYR	IL	ELECTRIC ENERGY, INC.	JOPPA	C	1,546,100	0.13	8535	0.29	0.69	4.53	13.78	80.74
BELLE AYR	NE	FREMONT DEPT. OF UTILITIES	WRIGHT	C	220,300	0.02	8550	0.30	0.70	4.53	14.54	85.01
BELLE AYR	NE	FREMONT DEPT. OF UTILITIES	WRIGHT	S	1,100	0.00	8394	0.26	0.61	5.51	4.19	25.00
BELLE AYR	GA	GEORGIA POWER CO.	SCHERER	S	1,025,100	0.08	8504	0.30	0.70	4.29	24.62	144.77
BELLE AYR	CO	PSC OF COLORADO	PAWNEE	C	11,940	0.00	8569	0.27	0.63	4.21	15.53	90.60
BELLE AYR	TX	HOUSTON LIGHTING & POWER CO.	PARISH	C	2,375,200	0.20	8537	0.29	0.68	4.55	18.17	106.43
BELLE AYR	IA	IES UTILITIES INC	PRairie CREEK	S	420,000	0.03	8553	0.30	0.70	4.59	17.11	100.26
BELLE AYR	IA	IES UTILITIES INC	SIXTH STREET	S	3,000	0.00	8542	0.30	0.70	4.63	17.37	101.73
BELLE AYR	IA	IES UTILITIES INC	SUTHERLAND	S	149,000	0.01	8553	0.28	0.66	4.56	12.35	72.40
BELLE AYR	IN	INDIANA MICHIGAN POWER CO.	ROCKPORT	S	721,400	0.06	8525	0.30	0.70	4.54	17.63	103.44
BELLE AYR	IA	MIDWEST POWER SYSTEMS, INC.	NEAL (IA)	S	691,800	0.06	8552	0.30	0.69	4.50	12.77	74.67
BELLE AYR	MT	MONTANA POWER CO.	CORETTE	S	119,000	0.01	8551	0.33	0.77	4.90	10.98	64.19
BELLE AYR	NE	NEBRASKA PUBLIC POWER DISTRICT	GENTLEMAN	S	23,930	0.00	8485	0.41	0.97	6.45	12.68	74.70
BELLE AYR	NE	NEBRASKA PUBLIC POWER DISTRICT	SHELDON	S	33,620	0.00	8549	0.29	0.68	4.60	13.52	79.10
BELLE AYR	IN	NORTHERN INDIANA PUB SERV CO.	BAILLY	S	12,200	0.00	8462	0.31	0.73	4.70	15.74	93.00
BELLE AYR	IN	NORTHERN INDIANA PUB SERV CO.	MITCHELL-IN	S	67,800	0.01	8553	0.30	0.69	4.51	17.45	102.01
BELLE AYR	IN	NORTHERN INDIANA PUBLIC SERVICE CO	MICHIGAN CITY	S	368,500	0.03	8534	0.30	0.70	4.56	15.80	92.56
BELLE AYR	IN	NORTHERN INDIANA PUBLIC SERVICE CO	SCHAFFER	S	11,200	0.00	8598	0.30	0.70	4.50	18.06	105.00
BELLE AYR	OK	OKLAHOMA GAS & ELECTRIC CO.	MUSKOGEE	S	1,823,530	0.15	8517	0.29	0.68	4.59	13.38	78.55

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Btu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/ MMBtu
BELLE AYR	OK	OKLAHOMA GAS & ELECTRIC CO.	SOONER	S	450,070	0.04	8534	0.29	0.67	4.46	13,80	80.81
BELLE AYR	WI	WISCONSIN POWER & LIGHT CO	COLUMBIA-WI	S	787,860	0.07	8536	0.29	0.69	4.55	16,66	97.56
				<b>BELLE AYR TOTALS =</b>	<b>12,087,690</b>	<b>1.00</b>	<b>8529</b>	<b>0.29</b>	<b>0.69</b>	<b>4.53</b>	<b>16.95</b>	<b>99.37</b>
BELLE AYR/EAGLE BUTTE	AR	ARKANSAS POWER & LIGHT CO.	WHITE BLUFF	S	60,180	0.01	8710	0.30	0.69	4.62	23,06	132.34
BELLE AYR/EAGLE BUTTE	IA	INTERSTATE POWER CO.	LANSING	C	506,900	0.07	8333	0.35	0.84	4.66	39.54	237.22
BELLE AYR/EAGLE BUTTE	AR	SOUTHWESTERN ELECTRIC POWER CO	FLINT CREEK	C	1,416,000	0.20	8356	0.33	0.80	4.54	27.21	162.84
BELLE AYR/EAGLE BUTTE	AR	SOUTHWESTERN ELECTRIC POWER CO	FLINT CREEK	S	266,000	0.04	8273	0.34	0.82	4.56	21.89	132.32
BELLE AYR/EAGLE BUTTE	TX	SOUTHWESTERN ELECTRIC POWER CO	WELSH	C	4,135,000	0.57	8366	0.34	0.81	4.58	31.83	190.35
BELLE AYR/EAGLE BUTTE	TX	SOUTHWESTERN ELECTRIC POWER CO	WELSH	S	726,000	0.10	8380	0.99	2.36	4.60	25.44	151.79
BELLE AYR/EAGLE BUTTE	TX	WEST TEXAS UTILITIES CO.	OKLAUNION	C	94,000	0.01	8566	0.28	0.66	4.36	18.97	110.71
				<b>BELLE AYR/EAGLE BUTTE TOTALS =</b>	<b>7,204,080</b>	<b>1.00</b>	<b>8365</b>	<b>0.40</b>	<b>0.96</b>	<b>4.58</b>	<b>30.21</b>	<b>180.69</b>

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Btu/Lb	LbSO2/	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/
BLACK BUTTE	WY	PACIFICORP		BRIDGER	C	894,000	0.24	9862	0.58	1.17	9.06	18.01	91.35	
BLACK BUTTE	WY	PACIFICORP		BRIDGER	S	919,000	0.25	9801	0.54	1.11	8.25	15.37	78.52	
BLACK BUTTE	OR	PORTLAND GENERAL ELECTRIC CO		BOARDMAN	S	575,000	0.16	9523	0.46	0.96	7.17	21.11	110.84	
BLACK BUTTE	NV	SIERRA PACIFIC POWER CO		NORTH VALMY	C	1,012,000	0.28	9676	0.51	1.06	7.79	39.63	204.79	
BLACK BUTTE	WI	WISCONSIN ELECTRIC POWER CO		PLEASANT PRAIRIE	S	191,300	0.05	9444	0.45	0.96	6.88	21.79	115.35	
LEUCITE HILLS	WY	PACIFICORP		BRIDGER	C	84,000	0.02	9853	0.70	1.42	9.60	18.25	92.60	

BLACK BUTTE/LEUCITE HILLS TOTALS =

3,675,300 1.00 9721 0.53 1.09 8.11 23.99 123.70

BLACK THUNDER	IL	CENTRAL ILLINOIS LIGHT CO.	EDWARDS	S	10,000	0.00	8724	0.36	0.84	5.36	21.61	123.85	
BLACK THUNDER	IL	CENTRAL ILLINOIS LIGHT CO.	EDWARDS	S	5,000	0.00	9047	0.47	1.04	5.20	20.75	114.70	
BLACK THUNDER	IL	COMMONWEALTH EDISON CO.	CRAWFORD	S	1,300	0.00	8827	0.33	0.75	4.95	24.55	139.10	
BLACK THUNDER	IL	COMMONWEALTH EDISON CO.	WAUKEGAN	S	73,000	0.00	8826	0.34	0.76	4.97	21.88	123.95	
BLACK THUNDER	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	S	103,100	0.00	8828	0.33	0.75	4.93	25.18	142.60	
BLACK THUNDER	MI	DETROIT EDISON CO.	MONROE	C	821,000	0.03	8759	0.33	0.74	5.26	18.88	107.75	
BLACK THUNDER	MI	DETROIT EDISON CO.	RIVER ROUGE	C	129,000	0.00	8760	0.32	0.73	5.25	18.90	107.89	
BLACK THUNDER	MI	DETROIT EDISON CO.	ST. CLAIR	C	38,000	0.00	8755	0.33	0.75	5.07	21.38	122.11	
BLACK THUNDER	IL	ELECTRIC ENERGY INC.	JOPPA	C	218,100	0.01	8751	0.32	0.74	5.26	16.64	95.09	
BLACK THUNDER	NE	FREMONT DEPT. OF UTILITIES	WRIGHT	S	2,000	0.00	8357	0.30	0.72	8.66	18.07	103.27	
BLACK THUNDER	GA	GEORGIA POWER CO.	SCHERER	S	164,300	0.01	8739	0.35	0.82	5.23	26.80	153.36	
BLACK THUNDER	GA	GEORGIA POWER CO.	SCHERER	S	976,700	0.03	8776	0.34	0.77	5.20	27.19	154.90	
BLACK THUNDER	MO	KANSAS CITY POWER & LIGHT CO	HAWTHORN	S	217,000	0.01	8739	0.33	0.75	5.63	13.47	77.08	
BLACK THUNDER	MO	KANSAS CITY POWER & LIGHT CO	IATAN	C	2,266,000	0.07	8746	0.33	0.75	5.37	14.88	85.05	

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Plant Utility	Plant MMBtu	Plant \$/Ton	CT Tons	Blu/Lb MMBtu	%Sulf	LbSO2/ MMBtu	Cents/ \$/Ton
BLACK THUNDER	MO KANSAS CITY POWER & LIGHT CO	IATAN	S 517,000 0.02	8749 0.33	0.76	5.49	12.25	70.04	
BLACK THUNDER	KS KANSAS CITY POWER & LIGHT CO	LA CYGNE	C 35,000 0.00	8730 0.40	0.92	6.10	17.01	97.40	
BLACK THUNDER	KS KANSAS CITY POWER & LIGHT CO	LACYGNE	S 393,000 0.01	8726 0.31	0.72	5.49	14.43	82.66	
BLACK THUNDER	TX LOWER COLORADO RIVER AUTHORITY	FAYETTE	C 2,507,000 0.08	8755 0.33	0.75	5.26	25.08	143.21	
BLACK THUNDER	IA MIDWEST POWER SYSTEMS, INC.	COUNCIL BLUFFS	S 400 0.00	8900 0.30	0.67	5.00	11.07	62.18	
BLACK THUNDER	NE NEBRASKA PUBLIC POWER DISTRICT	GENTLEMAN	C 3,648,680 0.12	8762 0.32	0.74	5.23	14.40	82.15	
BLACK THUNDER	NE NEBRASKA PUBLIC POWER DISTRICT	GENTLEMAN	S 23,610 0.00	8396 0.38	0.91	5.85	8.78	52.30	
BLACK THUNDER	NE NEBRASKA PUBLIC POWER DISTRICT	SHELDON	C 565,600 0.02	8771 0.34	0.77	5.30	14.68	83.70	
BLACK THUNDER	IN NORTHERN INDIANA PUB SERV CO.	MICHIGAN CITY	S 141,500 0.00	8763 0.33	0.75	5.15	17.90	102.10	
BLACK THUNDER	IN NORTHERN INDIANA PUBLIC SERVICE CO	MICHELL (IN)	C 93,800 0.00	8764 0.32	0.73	5.38	19.14	109.19	
BLACK THUNDER	IN NORTHERN INDIANA PUBLIC SERVICE CO	SCHAFFER	C 611,100 0.02	8775 0.32	0.73	5.30	19.56	111.46	
BLACK THUNDER	MN NORTHERN STATES POWER CO (MN)	KING	S 11,000 0.00	8874 0.31	0.70	5.10	16.43	92.60	
BLACK THUNDER	MN NORTHERN STATES POWER CO (MN)	SHERBURNE	C 1,505,900 0.05	8780 0.34	0.76	5.18	21.55	122.73	
BLACK THUNDER	MN NORTHERN STATES POWER CO (MN)	SHERBURNE	S 637,200 0.02	8750 0.32	0.73	5.31	17.71	101.20	
BLACK THUNDER	OK OKLAHOMA GAS & ELECTRIC CO.	MUSKOGEE	C 2,524,920 0.08	8757 0.33	0.75	5.24	14.14	80.72	
BLACK THUNDER	OK OKLAHOMA GAS & ELECTRIC CO.	SOONER	C 726,750 0.02	8753 0.32	0.72	5.24	13.85	79.14	
BLACK THUNDER	OR PORTLAND GENERAL ELECTRIC CO	BOARDMAN	S 425,000 0.01	8757 0.33	0.75	5.32	19.65	112.17	
BLACK THUNDER	IN PSI ENERGY, INC.	GIBSON	S 844,500 0.03	8768 0.33	0.75	5.17	19.46	111.00	
BLACK THUNDER	TX SOUTHWESTERN PUBLIC SERVICE CO	HARRINGTON	C 4,409,000 0.14	8646 0.33	0.76	5.36	26.79	154.90	
BLACK THUNDER	TX SOUTHWESTERN PUBLIC SERVICE CO	TOLK	C 3,454,000 0.11	8664 0.32	0.74	5.09	36.83	212.59	
BLACK THUNDER	TX SOUTHWESTERN PUBLIC SERVICE CO	TOLK	S 496,000 0.02	8636 0.32	0.75	5.11	19.35	112.01	
BLACK THUNDER	FL TAMPA ELECTRIC CO.	BIG BEND	S 60,040 0.00	8722 0.33	0.75	5.42	23.55	135.00	
BLACK THUNDER	MO UTILICORP UNITED INC.	SIBLEY	S 74,190 0.00	9541 0.43	0.87	5.76	13.30	69.70	
BLACK THUNDER	WI WISCONSIN ELECTRIC POWER CO	PLEASANT PRAIRIE	C 865,300 0.03	8740 0.32	0.74	5.32	12.49	71.45	
BLACK THUNDER	WI WISCONSIN POWER & LIGHT CO	EDGEWATER-WI	C 558,160 0.02	8764 0.31	0.72	5.11	21.62	123.35	
BLACK THUNDER	WI WISCONSIN POWER & LIGHT CO	EDGEWATER-WI	S 192,510 0.01	8740 0.32	0.73	5.25	17.81	101.87	

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Btu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/ LbSO2/
BLACK THUNDER	WI	WISCONSIN PUBLIC SERVICE CORP	WESTON	C	821,000	0.03	8779	0.32	0.72	5.09	23.71	135.06
BLACK THUNDER	WI	WISCONSIN PUBLIC SERVICE CORP	WESTON	S	451,000	0.01	8765	0.32	0.72	5.20	19.44	110.91
			<b>BLACK THUNDER TOTALS =</b>	<b>31,617,660</b>	<b>1.00</b>	<b>8733</b>	<b>0.33</b>	<b>0.75</b>	<b>5.25</b>	<b>21.31</b>	<b>122.15</b>	
BUCKSKIN	WY	BASIN ELECTRIC POWER COOP	LARAMIE RIVER	C	918,900	0.09	8399	0.35	0.84	5.01	8.57	51.06
BUCKSKIN	LA	CAJUN ELECTRIC POWER COOP, INC.	BIG CAJUN 2	C	5,480,770	0.51	8438	0.36	0.85	4.91	25.71	152.33
BUCKSKIN	IA	IES UTILITIES	OTTUMWA	S	270,400	0.03	8356	0.40	0.96	5.10	14.10	84.40
BUCKSKIN	IA	IES UTILITIES INC	BURLINGTON	S	181,500	0.02	8379	0.69	1.65	6.60	14.33	85.50
BUCKSKIN	IA	MIDWEST POWER SYSTEMS INC.	COUNCIL BLUFFS	S	94,600	0.01	8349	0.38	0.91	5.14	12.63	75.63
BUCKSKIN	IA	MUSCATINE POWER & LIGHT	MUSCATINE	C	618,190	0.06	8502	0.80	1.88	6.71	12.71	74.77
BUCKSKIN	NE	OMAHA PUBLIC POWER DISTRICT	NEBRASKA CITY	S	23,200	0.00	8282	0.40	0.97	5.60	11.06	66.80
BUCKSKIN	NE	OMAHA PUBLIC POWER DISTRICT	NORTH OMAHA	S	381,000	0.04	8323	0.39	0.95	5.16	11.17	67.10
BUCKSKIN	MO	UNION ELECTRIC CO	RUSH ISLAND	C	801,000	0.07	8350	0.50	1.20	6.50	14.81	88.66
BUCKSKIN	MO	UNION ELECTRIC CO	SIOUX	C	462,000	0.04	8350	0.50	1.20	6.50	14.54	87.04
BUCKSKIN	OK	WESTERN FARMERS ELEC COOP	HUGO	C	1,512,710	0.14	8465	0.36	0.86	4.90	29.25	172.85
			<b>BUCKSKIN TOTALS =</b>	<b>10,744,270</b>	<b>1.00</b>	<b>8423</b>	<b>0.41</b>	<b>0.97</b>	<b>5.25</b>	<b>21.55</b>	<b>127.82</b>	

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Btu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/ LbSO2/
CABALLO	ARKANSAS POWER & LIGHT CO.	INDEPENDENCE	C	24,680	0.00	8485	0.31	0.72	4.95	28.45	167.55	
CABALLO	ARKANSAS POWER & LIGHT CO.	WHITE BLUFF	C	24,900	0.00	8398	0.34	0.81	5.18	23.25	138.38	
CABALLO	ARKANSAS POWER & LIGHT CO.	WHITE BLUFF	S	130,540	0.01	8495	0.50	1.18	5.14	18.94	111.47	
CABALLO	BASIN ELECTRIC POWER COOP	LARAMIE RIVER	C	63,000	0.01	8486	0.36	0.85	5.20	7.25	42.70	
CABALLO	CONSUMERS POWER CO.	WEADOCK	S	200	0.00	8447	0.38	0.90	5.20	21.27	125.90	
CABALLO	DAIRYLAND POWER COOPERATIVE	ALMA	S	6,410	0.00	8475	0.37	0.87	5.30	20.46	120.70	
CABALLO	DAIRYLAND POWER COOPERATIVE	GENOA	S	70,100	0.01	8476	0.35	0.83	5.12	19.56	115.42	
CABALLO	DAIRYLAND POWER COOPERATIVE	J.P. MADGETT	S	16,990	0.00	8475	0.37	0.87	5.30	20.46	120.70	
CABALLO	GRAND RIVER DAM AUTHORITY	GRAND RIVER DAM	C	295,270	0.03	8310	0.38	0.90	5.15	15.05	90.57	
CABALLO	HASTINGS UTILITIES	HASTINGS	S	6,500	0.00	8540	0.38	0.89	5.14	12.83	75.10	
CABALLO	INDIANA MICHIGAN POWER CO.	ROCKPORT	C	2,825,300	0.27	8499	0.37	0.86	5.14	18.37	108.08	
CABALLO	KANSAS CITY POWER & LIGHT CO	HAWTHORN	S	12,000	0.00	8499	0.34	0.80	5.20	12.17	71.60	
CABALLO	KANSAS CITY POWER & LIGHT CO	IATAN	S	14,000	0.00	8505	0.34	0.80	5.00	11.06	65.00	
CABALLO	KANSAS CITY POWER & LIGHT CO	LACYGNE	S	1,916,000	0.19	8497	0.37	0.87	5.14	13.19	77.63	
CABALLO	LOWER COLORADO RIVER AUTHORITY	FAYETTE	C	266,000	0.03	8488	0.37	0.87	5.27	18.89	111.27	
CABALLO	LOWER COLORADO RIVER AUTHORITY	FAYETTE	S	129,000	0.01	8494	0.38	0.89	5.22	18.62	109.58	
CABALLO	MIDWEST POWER SYSTEMS, INC.	NEAL (IA)	C	2,463,700	0.24	8504	0.36	0.86	5.13	13.19	77.56	
CABALLO	OKLAHOMA GAS & ELECTRIC CO.	SOONER	S	147,700	0.01	8438	0.37	0.88	5.30	13.35	79.10	
CABALLO	PACIFICORP	JOHNSTON	S	147,000	0.01	8505	0.39	0.91	5.10	7.69	45.22	
CABALLO	PLEASANT PRAIRIE	WISCONSIN ELECTRIC POWER CO	C	1,740,600	0.17	8506	0.37	0.86	5.11	12.71	74.68	
<b>CABALLO TOTALS =</b>												<b>10,299,890 1.00 8494 0.37 0.87 5.14 14.88 87.58</b>

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Btu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	LbSO2/	Cents/MMBtu
CABALLO ROJO	ARKANSAS POWER & LIGHT CO.	AR	ARKANSAS POWER & LIGHT CO.	WHITE BLUFF	S	24,230	0.00	8431	0.35	0.83	5.53	23.40	138.80
CABALLO ROJO	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	CRAWFORD	S	1,000	0.00	8439	0.33	0.78	5.30	27.33	161.90
CABALLO ROJO	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	FISK	S	1,000	0.00	8430	0.32	0.76	5.60	29.64	175.80
CABALLO ROJO	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	POWERTON	S	451,000	0.03	8428	0.33	0.79	5.26	17.97	106.59
CABALLO ROJO	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	S	49,300	0.00	8463	0.32	0.76	5.36	28.50	168.40
CABALLO ROJO	DETROIT EDISON CO.	MI	DETROIT EDISON CO.	MONROE	S	11,000	0.00	8505	0.34	0.80	4.90	17.49	102.80
CABALLO ROJO	ELECTRIC ENERGY, INC.	IL	ELECTRIC ENERGY, INC.	JOPPA	C	152,600	0.01	8443	0.32	0.76	5.12	14.37	85.11
CABALLO ROJO	FREMONT DEPT. OF UTILITIES	NE	FREMONT DEPT. OF UTILITIES	WRIGHT	S	2,900	0.00	5969	0.52	1.74	17.60	4.20	35.20
CABALLO ROJO	GEORGIA POWER CO.	GA	GEORGIA POWER CO.	SCHERER	S	1,111,100	0.07	8445	0.33	0.79	5.25	26.30	155.68
CABALLO ROJO	GRAND RIVER DAM AUTHORITY	OK	GRAND RIVER DAM AUTHORITY	GRAND RIVER DAM	C	1,072,610	0.07	8441	0.33	0.78	5.16	15.84	93.81
CABALLO ROJO	HASTINGS UTILITIES	NE	HASTINGS UTILITIES	WHELAN	S	157,800	0.01	8430	0.33	0.79	5.27	12.89	76.46
CABALLO ROJO	KANSAS CITY BOARD OF PUB UTIL	KS	KANSAS CITY BOARD OF PUB UTIL	NEARMAN CREEK	C	29,700	0.00	8474	0.34	0.80	5.16	13.37	78.90
CABALLO ROJO	KANSAS CITY BOARD OF PUB UTIL	KS	KANSAS CITY BOARD OF PUB UTIL	NEARMAN CREEK	S	31,600	0.00	8427	0.35	0.83	5.46	13.37	79.30
CABALLO ROJO	KANSAS CITY POWER & LIGHT CO	MO	KANSAS CITY POWER & LIGHT CO	HAWTHORN	S	12,000	0.00	8419	0.29	0.69	4.70	11.77	69.90
CABALLO ROJO	KANSAS CITY POWER & LIGHT CO	MO	KANSAS CITY POWER & LIGHT CO	IATAN	S	36,000	0.00	8454	0.31	0.73	5.20	10.70	63.30
CABALLO ROJO	KANSAS CITY POWER & LIGHT CO	KS	KANSAS CITY POWER & LIGHT CO	LACYONE	S	2,139,000	0.13	8446	0.33	0.79	5.18	12.95	76.65
CABALLO ROJO	KANSAS CITY POWER & LIGHT CO	MO	KANSAS CITY POWER & LIGHT CO	MONTROSE	S	1,520,000	0.10	8445	0.33	0.78	5.13	14.69	86.96
CABALLO ROJO	MIDWEST POWER INC.	IA	MIDWEST POWER INC.	NEAL-IA	C	282,200	0.02	8488	0.37	0.88	5.21	13.15	77.46
CABALLO ROJO	MIDWEST POWER SYSTEMS INC.	IA	MIDWEST POWER SYSTEMS INC.	NEAL-IA	S	1,290,000	0.08	8446	0.32	0.76	5.12	12.60	74.57
CABALLO ROJO	NEBRASKA PUBLIC POWER DISTRICT	NE	NEBRASKA PUBLIC POWER DISTRICT	GENTLEMAN	S	24,490	0.00	8448	0.41	0.97	6.45	12.28	72.70
CABALLO ROJO	NEBRASKA PUBLIC POWER DISTRICT	NE	NEBRASKA PUBLIC POWER DISTRICT	SHELDON	S	34,220	0.00	8372	0.35	0.84	5.17	13.23	79.05
CABALLO ROJO	NORTHERN INDIANA PUB SERV CO.	IN	NORTHERN INDIANA PUB SERV CO.	MICHELL-IN	S	18,200	0.00	8428	0.35	0.84	5.14	17.41	103.26
CABALLO ROJO	NORTHERN INDIANA PUBLIC SERVICE CO	IN	NORTHERN INDIANA PUBLIC SERVICE CO	SCHAFFER	C	37,100	0.00	8494	0.33	0.78	5.30	18.23	107.30
CABALLO ROJO	OKLAHOMA GAS & ELECTRIC CO.	OK	OKLAHOMA GAS & ELECTRIC CO.	MUSKOGEE	S	567,160	0.04	8455	0.31	0.74	4.96	13.38	79.14
CABALLO ROJO	OKLAHOMA GAS & ELECTRIC CO.	OK	OKLAHOMA GAS & ELECTRIC CO.	SOONER	S	1,729,030	0.11	8447	0.33	0.77	5.13	12.90	76.35
CABALLO ROJO	PACIFICORP	WY	PACIFICORP	JOHNSTON	S	200,000	0.01	8444	0.33	0.78	5.10	7.81	46.24

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Blu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/ LbSO2/
CABALLO ROJO	OR	PORTLAND GENERAL ELECTRIC CO	BOARDMAN	S	879,000	0.06	8444	0.33	0.77	5.08	17.27	102.29
CABALLO ROJO	KS	SUNFLOWER ELEC POWER CORP, INC.	HOLCOMB	C	1,491,880	0.09	8438	0.34	0.80	5.20	17.96	106.45
CABALLO ROJO	TX	TEXAS MUNICIPAL POWER AGENCY	GIBBONS CREEK	S	35,520	0.00	8499	0.32	0.75	5.09	27.15	159.70
CABALLO ROJO	MO	UNION ELECTRIC CO	RUSH ISLAND	S	25,000	0.00	8500	0.34	0.80	5.10	14.67	86.32
CABALLO ROJO	MO	UNION ELECTRIC CO	SIOUX	S	403,000	0.03	8450	0.34	0.80	5.10	15.61	92.37
CABALLO ROJO	TX	WEST TEXAS UTILITIES CO.	OKLAUNION	C	446,000	0.03	8431	0.33	0.77	5.24	17.96	106.53
CABALLO ROJO	WI	WISCONSIN ELECTRIC POWER CO	OAK CREEK SOUTH	S	70,300	0.00	8432	0.32	0.77	5.44	15.13	89.72
CABALLO ROJO	WI	WISCONSIN ELECTRIC POWER CO	PLEASANT PRAIRIE	C	813,100	0.05	8442	0.33	0.79	5.23	12.72	75.36
CABALLO ROJO	WI	WISCONSIN POWER & LIGHT CO	COLUMBIA-WI	S	760,340	0.05	8443	0.33	0.78	5.17	16.60	98.31
<b>CABALLO ROJO TOTALS =</b>				15,909,380	1.00	8444	0.33	0.78	5.17	15.52	91.91	
CLOVIS POINT	NE	OMAHA PUBLIC POWER DISTRICT	NEBRASKA CITY	S	11,300	0.06	8003	0.36	0.90	5.70	10.96	68.50
CLOVIS POINT	WY	PACIFICORP	JOHNSTON	S	192,000	0.94	8093	0.41	1.01	5.61	7.70	47.58
<b>CLOVIS POINT TOTALS =</b>				203,300	1.00	8088	0.41	1.00	5.61	7.88	48.74	

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Blu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	LbSO <sub>2</sub> /	Cents/MMBtu
COAL CREEK (C)	KS	KANSAS CITY POWER & LIGHT CO	LACYGNE	S	445,000	0.18	8374	0.34	0.80	5.46	13.68	81.71	
COAL CREEK (C)	MO	KANSAS CITY POWER & LIGHT CO	MONTROSE	S	190,000	0.08	8388	0.34	0.82	5.88	16.76	99.91	
COAL CREEK (C)	TX	LOWER COLORADO RIVER AUTHORITY	FAYETTE	C	46,000	0.02	8381	0.35	0.84	5.71	19.30	115.15	
COAL CREEK (C)	WI	WISCONSIN ELECTRIC POWER CO	PLEASANT PRAIRIE	C	1,087,400	0.44	8253	0.35	0.84	5.82	12.02	72.81	
COAL CREEK (C)	WI	WISCONSIN POWER & LIGHT CO	EDGEWATER (WI)	C	419,790	0.17	8325	0.33	0.80	5.56	20.95	125.83	
COAL CREEK (C)	WI	WISCONSIN POWER & LIGHT CO	EDGEWATER (WI)	S	295,860	0.12	8381	0.34	0.81	5.87	17.38	103.63	
			COAL CREEK TOTALS =		2,484,050	1.00	8315	0.34	0.82	5.72	14.96	89.89	
CORDERO	AR	ARKANSAS POWER & LIGHT CO.	WHITE BLUFF	S	120,960	0.01	8730	0.28	0.63	4.95	25.18	144.18	
CORDERO	WY	BASIN ELECTRIC POWER COOP	LARAMIE RIVER	C	21,900	0.00	8287	0.34	0.82	5.40	8.54	51.50	
CORDERO	NE	GRAND ISLAND UTILITIES	PLATTE	S	361,970	0.03	8381	0.34	0.80	5.42	11.53	68.80	
CORDERO	IA	IES UTILITIES, INC	OTTUMWA	C	1,501,200	0.11	8374	0.35	0.83	5.54	18.78	112.12	
CORDERO	IA	IES UTILITIES, INC	OTTUMWA	S	315,200	0.02	8375	0.35	0.84	5.43	15.99	95.38	
CORDERO	IN	INDIANA MICHIGAN POWER CO.	ROCKPORT	S	1,332,600	0.09	8403	0.35	0.83	5.35	17.36	103.28	
CORDERO	IA	IOWA-ILLINOIS GAS & ELEC. CO.	LOUISA	C	1,497,000	0.11	8372	0.34	0.81	5.25	19.24	114.88	
CORDERO	IA	IOWA-ILLINOIS GAS & ELEC. CO.	LOUISA	S	224,000	0.02	8360	0.35	0.84	5.64	15.62	93.44	
CORDERO	TX	LOWER COLORADO RIVER AUTHORITY	FAYETTE	C	1,934,000	0.14	8359	0.34	0.82	5.52	19.01	113.73	
CORDERO	IA	MIDWEST POWER SYSTEMS INC.	COUNCIL BLUFFS	C	70,900	0.01	8443	0.36	0.85	4.97	14.07	83.31	
CORDERO	IN	NORTHERN INDIANA PUB SERV CO.	MICHIGAN CITY	C	100	0.00	8394	0.31	0.74	5.20	16.25	96.80	
CORDERO	IN	NORTHERN INDIANA PUB SERV CO.	MICHIGAN CITY	S	11,400	0.00	8422	0.31	0.74	5.40	15.58	92.50	
CORDERO	IN	NORTHERN INDIANA PUB SERV CO.	MITCHELL-IN	C	201,400	0.01	8368	0.33	0.80	5.32	18.02	107.69	
CORDERO	IN	NORTHERN INDIANA PUB SERV CO.	MITCHELL-IN	S	58,000	0.00	8451	0.33	0.78	5.10	17.18	101.62	

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Blu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/ LbSO2/
CORDERO	IN	NORTHERN INDIANA PUBLIC SERVICE CO	BAILLY	C	12,200	0.00	8371	0.34	0.81	5.30	16.32	97.50
CORDERO	IN	NORTHERN INDIANA PUBLIC SERVICE CO	SCHAFFER	C	102,900	0.01	8385	0.34	0.80	5.82	19.26	114.85
CORDERO	WY	PACIFICORP	JOHNSTON	S	555,000	0.04	8348	0.35	0.85	5.58	7.50	44.90
CORDERO	OK	PSC OF OKLAHOMA	NORTHEASTERN	S	138,000	0.01	8381	0.32	0.75	5.13	20.38	121.58
CORDERO	OK	PSC OF OKLAHOMA	NORTHEASTERN	S	1,196,000	0.08	8394	0.38	0.90	5.51	22.95	136.72
CORDERO	TX	SAN ANTONIO PUBLIC SERVICE	DEELY	C	2,566,850	0.18	8383	0.34	0.81	5.42	18.99	113.25
CORDERO	TX	SAN ANTONIO PUBLIC SERVICE	J.K. SPRUCE	C	1,810,150	0.13	8379	0.34	0.81	5.44	18.89	112.70
CORDERO	TX	WEST TEXAS UTILITIES CO.	OKLAUNION	C	97,000	0.01	8402	0.41	0.98	5.24	17.12	101.90
CORDERO	TX	WEST TEXAS UTILITIES CO.	OKLAUNION	S	24,000	0.00	8390	0.40	0.95	5.25	17.48	104.20
<b>CORDERO TOTALS =</b>				14,152,730	1.00	8381	0.35	0.83	5.43	18.39	109.67	
DAVE JOHNSTON	WY	PACIFICORP	JOHNSTON	C	3,157,000		7713	0.47	1.21	11.23	9.60	62.25
DRY FORK	WY	BASIN ELECTRIC POWER COOP	LARAMIE RIVER	C	3,703,900	0.97	8209	0.38	0.92	4.80	8.47	51.56
DRY FORK	KS	KANSAS CITY BOARD OF PUB UTIL	NEARMAN CREEK	C	132,400	0.03	8296	0.38	0.93	4.50	13.81	83.25
<b>DRY FORK TOTALS =</b>				3,836,300	1.00	8212	0.38	0.92	4.79	8.65	52.66	

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Btu/lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/
EAGLE BUTTE	INDIANA MICHIGAN POWER CO.	IN	INDIANA MICHIGAN POWER CO.	ROCKPORT	S	556,900	0.04	8238	0.28	0.67	4.13	17.04	103.04
EAGLE BUTTE	KANSAS PWR & LIGHT CO.(KPL) A WESTE	KS	KANSAS PWR & LIGHT CO.(KPL) A WESTE	JEFFREY	C	7,833,660	0.58	8237	0.36	0.87	4.62	18.27	110.92
EAGLE BUTTE	MIDWEST POWER SYSTEMS, INC.	IA	MIDWEST POWER SYSTEMS, INC.	COUNCIL BLUFFS	S	2,067,400	0.15	8221	0.37	0.90	4.66	14.02	85.27
EAGLE BUTTE	OMAHA PUBLIC POWER DISTRICT	NE	OMAHA PUBLIC POWER DISTRICT	NEBRASKA CITY	S	1,105,000	0.08	8217	0.38	0.92	4.72	10.90	66.35
EAGLE BUTTE	OMAHA PUBLIC POWER DISTRICT	NE	OMAHA PUBLIC POWER DISTRICT	NORTH OMAHA	S	70,900	0.01	8126	0.37	0.91	4.62	10.99	67.67
EAGLE BUTTE	PSC OF COLORADO	CO	PSC OF COLORADO	PAWNEE	C	1,932,850	0.14	8240	0.35	0.86	4.55	15.52	94.14
EAGLE BUTTE TOTALS =				13,566,710	1.00	8234	0.36	0.87	4.61	16.54	100.44		
FORT UNION	OMAHA PUBLIC POWER DISTRICT	NE	OMAHA PUBLIC POWER DISTRICT	NEBRASKA CITY	S	11,700		8231	0.34	0.83	5.50	11.46	69.60
JACOBS RANCH	ARKANSAS POWER & LIGHT CO.	AR	ARKANSAS POWER & LIGHT CO.	INDEPENDENCE	C	49,260	0.00	8654	0.44	1.00	5.65	30.41	175.74
JACOBS RANCH	ARKANSAS POWER & LIGHT CO.	AR	ARKANSAS POWER & LIGHT CO.	WHITE BLUFF	C	3,755,870	0.20	8664	0.44	1.01	5.66	32.97	190.26
JACOBS RANCH	CAJUN ELECTRIC POWER COOP INC.	LA	CAJUN ELECTRIC POWER COOP INC.	BIG CAJUN 2	C	107,210	0.01	8669	0.40	0.93	5.58	25.61	147.67
JACOBS RANCH	CENTRAL LOUISIANA ELEC CO, INC.	LA	CENTRAL LOUISIANA ELEC CO, INC.	RODEMACHER	C	1,886,000	0.10	8668	0.45	1.03	5.68	31.25	180.24
JACOBS RANCH	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	JOLIET	S	55,930	0.00	8678	0.46	1.06	5.51	22.20	127.91
JACOBS RANCH	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	JOLIET	C	35,130	0.00	8707	0.54	1.23	5.74	29.70	170.55
JACOBS RANCH	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	JOLIET	S	10,120	0.00	8709	0.58	1.33	6.10	36.42	209.10
JACOBS RANCH	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	JOLIET 9	S	30,070	0.00	8678	0.46	1.06	5.51	22.20	127.93
JACOBS RANCH	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	JOLIET 9	C	4,870	0.00	8702	0.54	1.23	5.73	29.67	170.49
JACOBS RANCH	COMMONWEALTH EDISON CO.	IL	COMMONWEALTH EDISON CO.	JOLIET 9	S	2,880	0.00	8709	0.58	1.33	6.10	36.42	209.10

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Blu/Lb	%Sulf	MMBu	%Ash	\$/Ton	MMBu	Cents/
				LbSO2/								
JACOBS RANCH	IL	COMMONWEALTH EDISON CO.	WAUKEGAN	S	100,000	0.01	8692	0.46	1.05	5.60	21.26	122.32
JACOBS RANCH	IL	COMMONWEALTH EDISON CO.	WAUKEGAN	C	845,000	0.05	8697	0.51	1.17	5.83	29.51	169.64
JACOBS RANCH	IL	COMMONWEALTH EDISON CO.	WAUKEGAN	S	176,000	0.01	8709	0.58	1.33	6.10	35.67	204.80
JACOBS RANCH	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	S	10,000	0.00	8692	0.46	1.06	5.60	33.74	194.10
JACOBS RANCH	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	C	19,000	0.00	8709	0.48	1.10	5.70	42.08	241.60
JACOBS RANCH	MI	CONSUMERS POWER CO.	CAMPBELL	S	285,100	0.02	8700	0.44	1.02	5.54	21.43	123.15
JACOBS RANCH	MI	CONSUMERS POWER CO.	WEADOCK	S	82,000	0.00	8703	0.47	1.08	5.66	21.45	123.20
JACOBS RANCH	NE	FREMONT DEPT. OF UTILITIES	WRIGHT	S	2,400	0.00	8351	0.53	1.27	9.50	3.99	23.90
JACOBS RANCH	GA	GEORGIA POWER CO.	SCHERRER	S	1,266,200	0.07	8685	0.43	0.98	5.48	26.09	150.21
JACOBS RANCH	LA	GULF STATES UTILITIES CO.	NELSON	C	2,260,000	0.12	8421	0.45	1.07	5.67	26.47	157.02
JACOBS RANCH	TX	HOUSTON LIGHTING & POWER CO.	PARISH	C	902,500	0.05	8694	0.44	1.01	5.56	36.07	207.41
JACOBS RANCH	TX	HOUSTON LIGHTING & POWER CO.	BURLINGTON	C	362,900	0.02	8700	0.45	1.03	5.55	36.54	209.96
JACOBS RANCH	IA	IES UTILITIES INC	PARISH	S	158,000	0.01	8689	0.50	1.14	5.90	15.65	90.03
JACOBS RANCH	IA	IES UTILITIES, INC	PRAIRIE CREEK	S	233,000	0.01	8693	0.51	1.18	5.85	18.39	105.78
JACOBS RANCH	IA	IES UTILITIES, INC	SUTHERLAND	S	219,000	0.01	8674	1.58	3.64	6.53	12.82	73.90
JACOBS RANCH	IL	ILLINOIS POWER CO.	BALDWIN	C	200	0.00	8643	0.46	1.06	5.90	22.15	128.16
JACOBS RANCH	IN	INDIANA MICHIGAN POWER CO.	ROCKPORT	C	609,000	0.03	8704	0.43	0.98	5.40	18.77	107.81
JACOBS RANCH	IN	INDIANA MICHIGAN POWER CO.	ROCKPORT	S	283,000	0.02	8713	0.42	0.97	5.36	18.13	104.02
JACOBS RANCH	KS	KANSAS CITY POWER & LIGHT CO	LACYGNE	S	33,000	0.00	8668	0.47	1.09	5.71	13.78	79.52
JACOBS RANCH	MO	KANSAS CITY POWER & LIGHT CO	MONROSE	S	33,000	0.00	8699	0.47	1.08	5.70	14.72	84.60
JACOBS RANCH	TX	LOWER COLORADO RIVER AUTHORITY	FAYETTE	C	1,459,000	0.08	8690	0.45	1.04	5.62	19.09	109.85
JACOBS RANCH	IA	MIDWEST POWER SYSTEMS INC.	NEAL (IA)	S	74,600	0.00	8675	0.44	1.01	5.54	12.71	73.25
JACOBS RANCH	IA	MIDWEST POWER SYSTEMS INC.	NEAL (IA)	S	12,800	0.00	8675	0.44	1.01	5.54	12.55	72.31
JACOBS RANCH	NE	NEBRASKA PUBLIC POWER DISTRICT	GENTLEMAN	S	24,230	0.00	8752	0.45	1.03	5.11	12.80	73.10
JACOBS RANCH	NE	NEBRASKA PUBLIC POWER DISTRICT	SHELDON	S	34,050	0.00	8678	0.40	0.92	5.60	13.97	80.50
JACOBS RANCH	MN	NORTHERN STATES POWER CO (MN)	HIGH BRIDGE	S	115,600	0.01	8723	0.43	0.99	5.78	21.76	124.68

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Blu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/
JACOBS RANCH	MN	NORTHERN STATES POWER CO (MN)	SHERBURNE	S	92,000	0.00	8672	0.43	1.00	5.31	15.46	89.10	
JACOBS RANCH	OK	OKLAHOMA GAS & ELECTRIC CO.	MUSKOGEE	S	35,860	0.00	8570	0.33	0.77	5.01	13.84	80.70	
JACOBS RANCH	OK	OKLAHOMA GAS & ELECTRIC CO.	SOONER	C	11,840	0.00	8712	0.49	1.12	5.90	14.17	81.30	
JACOBS RANCH	OK	OKLAHOMA GAS & ELECTRIC CO.	SOONER	S	22,740	0.00	8675	0.36	0.83	5.10	15.06	86.80	
JACOBS RANCH	OR	PORTLAND GENERAL ELECTRIC CO	BOARDMAN	S	244,000	0.01	8694	0.44	1.02	5.59	18.42	105.92	
JACOBS RANCH	OK	PSC OF OKLAHOMA	NORTHEASTERN	C	1,317,000	0.07	8612	0.44	1.03	5.50	26.33	152.94	
JACOBS RANCH	MO	UNION ELECTRIC CO	LABADIE	C	50,000	0.00	8650	0.52	1.20	5.70	15.78	91.20	
JACOBS RANCH	MO	UNION ELECTRIC CO	RUSH ISLAND	C	1,040,000	0.06	8650	0.52	1.20	5.70	15.72	90.85	
JACOBS RANCH	MO	UNION ELECTRIC CO	SIOUX	C	21,000	0.00	8650	0.52	1.20	5.70	16.66	96.31	
JACOBS RANCH	MO	UTILICORP UNITED, INC.	SIBLEY	S	203,610	0.01	8646	0.40	0.93	5.59	12.33	71.30	
JACOBS RANCH TOTALS =				18,574,970	1.00	8642	0.46	1.08	5.64	26.52	153.41		
JACOBS RANCH	TX	HOUSTON LIGHTING & POWER CO.	PARISH	C	6,842,800		8549	0.39	0.91	5.27	34.91	204.17	
JIM BRIDGER	WY	PACIFICORP	BRIDGER	C	5,192,000	0.74	9342	0.62	1.32	11.41	22.06	118.02	
JIM BRIDGER	WY	PACIFICORP	BRIDGER	S	1,844,000	0.26	9326	0.62	1.33	11.36	14.54	77.96	
BRIDGER TOTALS =				7,036,000	1.00	9338	0.62	1.32	11.40	20.09	107.52		
KEMMERER	WY	PACIFICORP	NAUGHTON	C	2,974,000		9813	0.75	1.53	5.40	21.99	112.04	

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Blu/Lb	%Sulf	MMBtu	%Ash	\$/Ton	MMBtu	Cents/MMBtu
MEDICINE BOW	ILLINOIS POWER CO.	IL		WOOD RIVER	S	6,770	0.00	9975	0.50	1.00	11.10	30.60	153.37
MEDICINE BOW	KANSAS CITY BOARD OF PUB UTIL	KS	KANSAS POWER & LIGHT CO.	KAW	C	175,600	0.13	10527	0.42	0.80	6.98	27.31	129.73
MEDICINE BOW	KANSAS POWER & LIGHT CO.	KS		LAWRENCE	C	30,000	0.02	10378	0.42	0.81	8.40	23.91	115.20
MEDICINE BOW	KANSAS POWER & LIGHT CO.	KS		TECUMSEH	C	12,000	0.01	10377	0.42	0.81	8.40	24.57	118.40
MEDICINE BOW	MIDWEST POWER SYSTEMS, INC.	IA		NEAL (IA)	S	459,900	0.33	10434	0.43	0.82	7.36	23.36	111.94
MEDICINE BOW	NEBRASKA PUBLIC POWER DISTRICT	NE		SHELDON	S	33,890	0.02	10555	0.39	0.74	6.30	23.50	111.30
MEDICINE BOW	UTILICORP UNITED INC.	MO		SIBLEY	C	150,540	0.11	10404	0.46	0.89	7.80	22.26	107.00
MEDICINE BOW	WISCONSIN ELECTRIC POWER CO	WI		PLEASANT PRAIRIE	S	244,200	0.18	10551	0.40	0.75	6.58	22.82	108.14
MEDICINE BOW	WISCONSIN POWER & LIGHT CO	WI		DEWEY	S	34,290	0.02	10546	0.43	0.82	6.88	21.89	103.80
MEDICINE BOW	WISCONSIN POWER & LIGHT CO	WI		EDGEWATER (WI)	S	23,480	0.02	10700	0.41	0.77	5.96	29.75	139.00
MEDICINE BOW	WISCONSIN POWER & LIGHT CO	WI		ROCK RIVER	S	10,940	0.01	10461	0.39	0.75	8.24	31.61	151.10
MEDICINE BOW	KANSAS CITY BOARD OF PUB UTIL	KS		QUINDARO	C	196,000	0.14	10446	0.42	0.81	6.94	27.37	131.03
<b>MEDICINE BOW TOTALS =</b>										<b>1,377,520</b>	<b>1.00</b>	<b>10472</b>	<b>0.42</b>
										<b>1,377,520</b>	<b>1.00</b>	<b>10472</b>	<b>0.42</b>
										<b>1,377,520</b>	<b>1.00</b>	<b>10472</b>	<b>0.42</b>
										<b>1,377,520</b>	<b>1.00</b>	<b>10472</b>	<b>0.42</b>
										<b>1,377,520</b>	<b>1.00</b>	<b>10472</b>	<b>0.42</b>
										<b>1,377,520</b>	<b>1.00</b>	<b>10472</b>	<b>0.42</b>
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## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	Plant	CT	Tons	Btu/Lb	%Sulf	MMBu	%Ash	\$/Ton	MMBu	Cents/
	State	Utility			LbSO <sub>2</sub> /						
NORTH ANTELOPE	MO	KANSAS CITY POWER & LIGHT CO	HAWTHORN	C	1,090,000	0.09	8862	0.21	0.48	4.50	16.96
NORTH ANTELOPE	KS	KANSAS CITY POWER & LIGHT CO	LA CYGNE	C	13,000	0.00	8794	0.18	0.41	4.50	18.15
NORTH ANTELOPE	WI	MANITOWOC PUBLIC UTILITIES	MANITOWOC	S	2,850	0.00	9470	0.67	1.42	5.58	23.06
NORTH ANTELOPE	IN	NORTHERN INDIANA PUB SERV CO.	MICHELL-IN	S	93,100	0.01	8870	0.31	0.70	5.18	18.69
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	BLACK DOG	C	229,300	0.02	8877	0.23	0.51	4.62	17.63
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	BLACK DOG	S	128,400	0.01	8806	0.22	0.49	4.82	16.19
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	HIGH BRIDGE	C	48,400	0.00	8889	0.25	0.56	4.60	16.73
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	HIGH BRIDGE	S	42,700	0.00	8861	0.20	0.45	4.40	16.83
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	KING	C	540,600	0.04	8874	0.23	0.52	4.62	17.63
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	KING	S	326,800	0.03	8849	0.22	0.49	4.51	16.21
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	RIVERSIDE (MN)	C	86,800	0.01	8866	0.25	0.56	4.70	16.79
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	RIVERSIDE (MN)	S	116,200	0.01	8892	0.19	0.44	4.27	16.77
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	SHERBURN	C	52,600	0.00	8863	0.27	0.62	4.86	21.30
NORTH ANTELOPE	MN	NORTHERN STATES POWER CO (MN)	SHERBURN	S	49,200	0.00	8897	0.25	0.56	4.50	16.64
NORTH ANTELOPE	OK	OKLAHOMA GAS & ELECTRIC CO.	MUSKOGEE	S	123,780	0.01	8842	0.27	0.61	4.58	15.28
NORTH ANTELOPE	OK	OKLAHOMA GAS & ELECTRIC CO.	SOONER	S	246,670	0.02	8812	0.22	0.50	4.65	14.84
NORTH ANTELOPE	OK	PSC OF OKLAHOMA	NORTHEASTERN	S	355,000	0.03	8761	0.23	0.52	5.25	23.48
NORTH ANTELOPE	TX	WEST TEXAS UTILITIES CO.	OKLAUNION	C	74,000	0.01	8829	0.21	0.47	4.41	19.10
NORTH ANTELOPE	WI	WISCONSIN POWER & LIGHT CO	COLUMBIA (WI)	S	883,990	0.07	8837	0.22	0.49	5.11	17.65
NORTH ANTELOPE	WI	WISCONSIN POWER & LIGHT CO	EDGEMASTER (WI)	S	519,500	0.04	8855	0.21	0.48	4.59	17.71
NORTH ANTELOPE	WI	WISCONSIN PUBLIC SERVICE CORP	PULLIAM	S	670,000	0.05	8866	0.22	0.50	4.52	19.23
NORTH ANTELOPE	WI	WISCONSIN PUBLIC SERVICE CORP	WESTON	S	477,000	0.04	8866	0.21	0.47	4.48	18.00
NORTH ANTELOPE TOTALS =											12,289,070 1.00 8849 0.23 0.52 4.62 21.58 121.95

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT Tons	Blu/Lb %Sulf	LbsO2/ MMBtu	Cents/ \$/Ton
NORTH ROCHELLE	WY PACIFICORP	JOHNSTON	S 202,000	8573	0.24	0.57	5.01 11.50 67.13
PILOT BUTTE (STANSBURY)	WY PACIFICORP	BRIDGER	S 3,000	10595	0.91	1.72	5.60 11.00 51.90
RAWHIDE	WY BASIN ELECTRIC POWER COOP	LARAMIE RIVER	C 2,712,400	0.22	8304	0.36	0.88 5.08 8.50 51.15
RAWHIDE	WI DAIRYLAND POWER COOPERATIVE	ALMA	S 38,840	0.00	8291	0.37	0.90 5.14 20.01 120.66
RAWHIDE	WI DAIRYLAND POWER COOPERATIVE	GENOA	S 46,500	0.00	8307	0.37	0.89 5.13 19.15 115.29
RAWHIDE	WI DAIRYLAND POWER COOPERATIVE	J.P. MADGETT	S 82,760	0.01	8292	0.37	0.90 5.17 20.01 120.65
86	OK GRAND RIVER DAM AUTHORITY	GRAND RIVER DAM	C 1,586,840	0.13	8302	0.36	0.88 5.08 15.02 90.48
RAWHIDE	IA IES UTILITIES, INC	BURLINGTON	S 177,400	0.01	8300	0.36	0.86 5.05 14.76 88.91
RAWHIDE	IA IES UTILITIES, INC	OTTUMWA	S 332,600	0.03	8298	0.36	0.86 5.12 13.10 78.93
RAWHIDE	IN INDIANA MICHIGAN POWER CO.	ROCKPORT	C 1,485,200	0.12	8299	0.32	0.78 4.87 18.04 108.67
RAWHIDE	IN INDIANA MICHIGAN POWER CO.	ROCKPORT	S 369,500	0.03	8288	0.36	0.87 5.03 17.21 103.80
RAWHIDE	KS KANSAS CITY BOARD OF PUB UTIL	NEARMAN CREEK	C 647,600	0.05	8303	0.36	0.86 5.07 13.88 83.60
RAWHIDE	IA MIDWEST POWER SYSTEMS, INC.	COUNCIL BLUFFS	S 736,800	0.06	8293	0.36	0.88 5.12 11.12 67.03
RAWHIDE	NE NEBRASKA PUBLIC POWER DISTRICT	GENTLEMAN	S 96,900	0.01	8293	0.35	0.84 5.11 12.60 75.95
RAWHIDE	NE OMAHA PUBLIC POWER DISTRICT	NEBRASKA CITY	C 674,700	0.06	8304	0.38	0.92 5.21 11.30 68.01
RAWHIDE	NE OMAHA PUBLIC POWER DISTRICT	NORTH OMAHA	C 971,900	0.08	8302	0.36	0.87 5.12 11.39 68.61
RAWHIDE/CABALLO	TX WEST TEXAS UTILITIES CO.	OKLAUNION	C 2,035,000	0.17	8307	0.37	0.90 5.12 26.72 160.82
RAWHIDE/CABALLO	TX WEST TEXAS UTILITIES CO.	OKLAUNION	S 146,000	0.01	8307	0.39	0.94 5.31 18.42 110.90
		RAWHIDE TOTALS =	12,140,940	1.00	8302	0.36	0.87 5.08 15.19 91.51

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Btu/Lb	LbSO2/	MMBtu	%Sulf	%Ash	\$/Ton	MMBtu	Cents/
ROCHELLE	IA	AMES MUNICIPAL ELECTRIC SYSTEM	AMES	C	218,000	0.01	8729	0.20	0.46	5.04	24.27	139.00		
ROCHELLE	MO	ASSOCIATED ELECTRIC COOP, INC.	HILL	C	1,973,100	0.09	8684	0.20	0.46	4.57	15.64	90.04		
ROCHELLE	MO	ASSOCIATED ELECTRIC COOP, INC.	NEW MADRID	C	1,108,800	0.05	8702	0.20	0.47	4.54	17.81	102.31		
ROCHELLE	MO	CENTRAL ELECTRIC POWER COOP	CHAMOIS	S	5,000	0.00	8463	0.38	0.89	5.52	24.30	143.59		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	CRAWFORD	C	22,200	0.00	8715	0.21	0.48	4.59	26.08	149.59		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	CRAWFORD	C	2,400	0.00	8711	0.22	0.51	4.60	55.90	320.87		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	FISK	C	41,000	0.00	8695	0.21	0.48	4.60	25.56	146.99		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	FISK	C	37,000	0.00	8702	0.21	0.49	4.60	55.91	321.25		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	JOLIET	C	9,930	0.00	8720	0.21	0.48	4.60	22.15	127.00		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	JOLIET	C	187,940	0.01	8696	0.20	0.46	4.50	43.81	251.91		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	JOLIET	C	29,330	0.00	8735	0.19	0.44	4.40	41.42	237.10		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	JOLIET 9	C	3,070	0.00	8720	0.21	0.48	4.60	22.15	127.00		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	JOLIET 9	C	49,700	0.00	8699	0.19	0.45	4.52	45.15	259.54		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	JOLIET 9	C	17,770	0.00	8704	0.19	0.44	4.57	42.58	244.60		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	POWERTON	C	23,000	0.00	8694	0.21	0.48	4.60	24.27	139.60		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	POWERTON	C	174,000	0.01	8740	0.20	0.46	4.51	53.89	308.33		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	POWERTON	C	388,000	0.02	8686	0.20	0.47	4.51	43.27	249.09		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	WAUKEGAN	C	107,000	0.01	8684	0.21	0.49	4.56	39.12	225.43		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	WAUKEGAN	C	1,200,000	0.00	8773	0.20	0.46	4.40	52.08	296.80		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	C	473,000	0.02	8692	0.21	0.48	4.56	36.01	207.22		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	C	312,000	0.01	8727	0.21	0.48	4.57	54.75	313.69		
ROCHELLE	IL	COMMONWEALTH EDISON CO.	WILL COUNTY	C	46,000	0.00	8719	0.19	0.44	4.49	44.09	252.87		
ROCHELLE	MI	DETROIT EDISON CO.	MONROE	C	1,853,000	0.09	8733	0.20	0.47	4.49	19.78	113.26		
ROCHELLE	MI	DETROIT EDISON CO.	RIVER ROUGE	C	72,000	0.00	8762	0.21	0.47	4.54	18.51	105.65		
ROCHELLE	MI	DETROIT EDISON CO.	TRENTON CHANNEL	C	70,000	0.00	8686	0.21	0.50	4.62	19.52	112.39		
ROCHELLE	IL	ELECTRIC ENERGY, INC.	JOPPA	C	1,199,500	0.06	8787	0.21	0.48	4.53	14.90	84.81		

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	Btu/Lb	%Sulf	LbSO2/	MMBtu	%Ash	\$/Ton	MMBtu	Cents/
ROCHELLE	MO EMPIRE DISTRICT ELECTRIC CO	ASBURY	C	758,030	0.04	8756	0.26	0.59	4.46	16.62	94.93			
ROCHELLE	KS EMPIRE DISTRICT ELECTRIC CO	RIVERTON	C	207,760	0.01	8758	0.26	0.58	4.45	19.15	109.36			
ROCHELLE	NE FREMONT DEPT. OF UTILITIES	WRIGHT	S	4,900	0.00	7034	0.26	0.74	14.20	4.00	28.40			
ROCHELLE	GA GEORGIA POWER CO.	SCHERER	S	115,400	0.01	8652	0.20	0.46	4.77	26.63	153.86			
ROCHELLE	OK GRAND RIVER DAM AUTHORITY	GRAND RIVER DAM	S	878,450	0.04	8707	0.19	0.45	4.52	15.49	88.97			
ROCHELLE	NE HASTINGS UTILITIES	HASTINGS	C	20,500	0.00	8791	0.18	0.41	4.73	14.65	83.30			
ROCHELLE	IN INDIANA MICHIGAN POWER CO.	ROCKPORT	C	2,776,100	0.13	8755	0.21	0.47	4.44	19.30	110.24			
ROCHELLE	IN INDIANA-KENTUCKY ELECTRIC CORP	CLIFTY CREEK	C	126,000	0.01	8793	0.22	0.50	4.52	15.04	85.50			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	BLACK DOG	C	66,800	0.00	8744	0.22	0.51	4.30	17.99	102.87			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	BLACK DOG	S	11,600	0.00	8602	0.18	0.42	4.00	16.48	95.80			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	HIGH BRIDGE	C	358,900	0.02	8752	0.21	0.47	4.47	21.74	124.18			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	HIGH BRIDGE	S	153,600	0.01	8661	0.20	0.46	4.63	16.85	97.27			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	KING	C	11,400	0.00	8727	0.25	0.57	4.53	17.47	100.07			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	RIVERSIDE (MN)	S	283,200	0.01	8663	0.20	0.46	4.65	16.87	97.39			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	RIVERSIDE-MN	C	603,600	0.03	8739	0.21	0.48	4.51	20.44	116.91			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	SHERBURNE	C	1,137,900	0.05	8727	0.20	0.47	4.55	21.19	121.42			
ROCHELLE	MN NORTHERN STATES POWER CO (MN)	SHERBURNE	S	411,900	0.02	8690	0.20	0.46	4.59	17.98	103.44			
ROCHELLE	OK OKLAHOMA GAS & ELECTRIC CO.	MUSKOGEE	S	22,710	0.00	8843	0.22	0.50	4.40	15.74	89.00			
ROCHELLE	OK OKLAHOMA GAS & ELECTRIC CO.	SOONER	S	168,690	0.01	8737	0.20	0.46	4.60	15.98	91.49			
ROCHELLE	OK PSC OF OKLAHOMA	NORTHEASTERN	S	130,000	0.01	8761	0.21	0.48	4.40	28.65	163.53			
ROCHELLE	TX SOUTHWESTERN ELECTRIC POWER CO	WELSH	S	235,000	0.01	8798	0.21	0.49	4.37	26.84	152.53			
ROCHELLE	TX SOUTHWESTERN ELECTRIC POWER CO	WELSH	S	68,000	0.00	8777	0.23	0.52	4.50	26.82	152.80			
ROCHELLE	MO UNION ELECTRIC CO	LABADIE	C	3,433,000	0.16	8800	0.22	0.50	4.50	16.12	91.58			
ROCHELLE	MO UNION ELECTRIC CO	RUSH ISLAND	C	238,000	0.01	8800	0.22	0.50	4.50	15.74	89.42			
ROCHELLE	MO UNION ELECTRIC CO	SIOUX	C	38,000	0.00	8800	0.22	0.50	4.50	16.02	91.00			
ROCHELLE	MO UTILICORP UNITED, INC.	SIBLEY	C	238,630	0.01	8715	0.23	0.53	4.64	12.36	70.90			

## 1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant	State	Utility	Plant	CT	Tons	BTU/LB	%Sulf	MMBTU	%Ash	\$/Ton	MMBTU	Cents/
ROCHELLE	TX	WEST TEXAS UTILITIES CO.	OKLAUNION	C	122,000	0.01	8682	0.19	0.44	4.61	18.60	107.12	
ROCHELLE	WI	WISCONSIN PUBLIC SERVICE CORP	PULLIAM	S	12,000	0.00	8729	0.23	0.53	4.30	19.22	110.10	
			ROCHELLE TOTALS =	21,056,010	1.00	8740	0.21	0.48	4.52	20.26	115.98		
			HAWTHORN	S	35,000	0.02	11386	0.60	1.05	4.67	29.43	129.25	
			NEAL-IA	S	63,600	0.03	11600	0.61	1.05	4.68	27.55	118.73	
			SHELDON	S	12,820	0.01	11479	0.66	1.15	5.70	28.01	122.00	
			MICHIGAN CITY	C	782,400	0.39	11236	0.58	1.04	6.24	42.30	188.25	
			SCHAFFER	C	668,300	0.34	11271	0.59	1.05	6.27	42.39	188.05	
			SIBLEY	C	288,920	0.15	10930	0.56	1.02	5.90	25.86	118.30	
			PLEASANT PRAIRIE	S	34,700	0.02	11404	0.60	1.06	5.03	27.64	121.20	
			EDGEMEATER (WI)	S	89,390	0.04	11442	0.60	1.06	5.05	34.08	148.91	
			ROCK RIVER	S	11,680	0.01	11249	0.59	1.05	5.34	34.96	155.40	
			SHOSHONE NO. 1 TOTALS =	1,986,810	1.00	11232	0.59	1.04	6.04	38.48	171.19		
			BRIDGER	S	66,000		10846		1.19	2.20	7.02	12.99	59.91
			PACIFICORP										
			SWANSON										

1994 Wyoming Coal Mine Deliveries, Ordered By Mine

Mine	Plant State	Utility	Plant	CT	Tons	Blu/Lb	LbSO2/ MMBtu	%Sulf	MMBtu	%Ash	\$/Ton	Cents/ MMBtu
UNKNOWN	MI	CONSUMERS POWER CO.	COBB	S	11,300	0.16	9343	0.74	1.58	4.10	21.60	115.60
UNKNOWN	FL	TAMPA ELECTRIC CO.	BIG BEND	C	57,750	0.84	8770	0.24	0.55	4.80	22.45	128.00
<b>UNKNOWN TOTALS =</b>												
WICKERSON RAIL SALVAGE COAL NE	FREMONT DEPT. OF UTILITIES	WRIGHT		S	900		8826	0.84	1.90	4.70	4.01	22.70
WYODAK	WY	PACIFICORP	WYODAK	C	1,952,000		7948	0.54	1.36	6.99	10.72	67.41