Wyoming Coal Directory

Compiled by Gary B. Glass

Public Information

Circular 5

PUBLISHED
BY:
The Geological Survey
of Wyoming

Daniel N. Miller, Jr.
State Geologist
July 1976
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AGENCIES

COMMISSIONER OF PUBLIC LANDS
A. E. King, Commissioner
Capitol Building
Cheyenne, WY 82002
(307) 777-7331

DEPARTMENT OF ECONOMIC PLANNING AND DEVELOPMENT
John Nelander, Director
720 West 1st Street
Cheyenne, WY 82001
(307) 777-7284

Mineral Development
John T. Goodier, Chief - Mineral Development
(Address and phone as above)

DEPARTMENT OF ENVIRONMENTAL QUALITY
Robert Sundin, Director
Ralph Goodin, Vice President
Arthur Williams, Water Quality
Walter Ackerman, Land Quality
State Office Building West
Cheyenne, WY 82002
(307) 777-7391

GEOLOGICAL SURVEY OF WYOMING
Daniel N. Miller, Jr., State Geologist and Director
Room 103, Geology Building
Box 8008, University Station
Laramie, WY 82071
(307) 742-2054 or 766-2286

Coal Office
Gary B. Glass, Staff Geologist
(Address and phone as above)

NATIONAL RESOURCES RESEARCH INSTITUTE
Walter E. Duncan, Division Director
Room 205, NRRI Building
Box 3038, University Station
Laramie, WY 82071
(307) 766-3322 or 766-3333

OFFICE OF INDUSTRIAL SITING ADMINISTRATION
Shaine E. Dingler, Director
Suite 500, Boyd Building
Cheyenne, WY 82002
(307) 777-7368

OFFICE OF LAND USE ADMINISTRATION
James G. Ahl, Executive Director
Suite 500, Boyd Building
Cheyenne, WY 82002
(307) 777-7493

STATE ENGINEER’S OFFICE
George Christopoulos, State Engineer
State Office Building
Cheyenne, WY 82002
(307) 777-7354

STATE INSPECTOR OF MINES
Marino Pierantoni, State Inspector of Mines
P.O. Box 1094
Rock Springs, WY 82901
(307) 367-5222

STATE PLANNING COORDINATOR
David Freudenfeld
2120 Capitol Avenue
Cheyenne, WY 82002
(307) 777-7574

U. S. BUREAU OF LAND MANAGEMENT
Dan Baker, Wyoming State Director
Bureau of Land Management Office
Federal Building
Cheyenne, WY 82001
(307) 778-2220

U. S. BUREAU OF MINES
Charles Koch
Liaison Officer for Wyoming
P.O. Box 1796
Cheyenne, WY 82001
(307) 778-2220 ext. 2401

U. S. DEPARTMENT OF AGRICULTURE
Milo Jean Haswell
Forest Service
Surface Environment and Mining (SEAM)
145 Grand Avenue
Billings, WY 59103
(406) 245-1143

U. S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
Andrew Decora, Research Director
Talara Energy Research Center
P.O. Box 3395
365 North 9th Street
Laramie, WY 82070
(307) 742-2115

U. S. GEOLOGICAL SURVEY
Elmer M. Schell, Regional Geologist
Branch of Mineral Classification
2001 Federal Building
P.O. Box 2372
Casper, WY 82601
(307) 265-5550 ext. 3421

Northern Area
Al Charnowsky, Mining Supervisor
Mining Branch, Conservation Division
Post Office Building
Billings, MT
(406) 245-6711 ext. 6181

Southern Area
J. Paul Storter, Area Mining Supervisor
Mining Branch, Conservation Division
Room 6029, Federal Building
Denver, CO 80202
(303) 234-1984

Western Area
Jack Hoffman, Area Mining Supervisor
Mining Branch, Conservation Division
2432 Federal Building
125 South State Street
Salt Lake City, UT 84111
(801) 524-5646

UNIVERSITY OF WYOMING DEPARTMENT OF MINERAL ENGINEERING
Dr. Donald L. Stinson, Head
Engineering Building, Room 416
University Station
Laramie, WY 82071
(307) 766-5186 or 766-5185

WYOMING MINING ASSOCIATION
William H. Budd, Jr., Executive Secretary
310 West Midwest Avenue
P.O. Box 1076
Casper, WY 82601
(307) 265-7060
COAL-FIRED POWER PLANTS

BASIN ELECTRIC POWER COOPERATIVE
316 North 5th Street
Bismarck, ND 58501
(See Missouri Basin Power Project)

BLACK HILLS POWER AND LIGHT COMPANY
N. G. Simpson, President
625 Ninth Street
Rapid City, SD 57701
(605) 348-1700

Neil Simpson Plant
(Air-cooled)
Campbell Co.: Wyodak, WY
T.50N., R.71W., Section 27
Capacity: 27.7 MW* (Will be dismantled after completion of the Wyodak plant)
Fuel requirements: .2 mtpy*

Osage Plant
Weston Co.: Osage, WY
T.46N., R.63W., Section 15
Capacity: 14.5 MW
Fuel requirements: .24 mtpy

Proposed Wyodak Plant
(Air-cooled)
Campbell Co.: Wyodak, WY
T.50N., R.71W., Section 27
Planned capacity: 330 MW by 1977
(1st unit)
Expansion: 360-660 MW by 1982
(2nd unit)
Total planned capacity: 690-900 MW by 1982
Fuel requirements: 2.5-4 mtpy max.

IDAHO POWER COMPANY
(See Pacific Power & Light Co.'s Jim Bridge Plant)

MISSOURI BASIN POWER PROJECT
(Joint venture of Basin Electric, Tri-state Generation and Transmission and others)
Lloyd Ernst, Wyoming Manager
1810 Capitol Avenue
Cheyenne, WY 82002
(307) 634-2955

Proposed Laramie River Station
Platte Co.: Wheatland, WY
T.25N., R.67W., Section 21
Planned capacity: 500 MW by 1979
(1st unit)
Expansion: 500 MW by 1981 (2nd unit)
500 MW by 1982-83 (3rd unit)
Fuel requirements: 5.5 mtpy max.

MONTANA-DAKOTA UTILITIES COMPANY
W. W. Kroeker, Vice President
400 N. 4th Street
Bismarck, ND 58501
(701) 226-3000

Acme Plant
Sheridan Co.: Acme, WY
T.57N., R.84W., Section 21
Capacity: 12 MW
Fuel requirements: 26,600 tpy*
(May be shut down in 1976 or 1977)

PACIFIC POWER & LIGHT COMPANY
C. P. Davenport, Vice President
920 S.W. 6th Avenue
Portland, OR 97204
(503) 222-1111

Dave Johnston Plant
Converse Co.: Glenrock, WY
T.33N., R.74W., Section 18
Capacity: 750 MW
Fuel requirements: 2.8 mtpy

Jim Bridge Plant
Sweetwater Co.: Point of Rocks, WY
T.20N., R.103W., Section 3
Capacity: 1000 MW
Expansion: 500 MW by 1978 (3rd unit)
500 MW by 1980 (4th unit)
Total planned capacity: 2000 MW by 1980's
Fuel requirements: 7.5 mtpy max.

(Pacific Power & Light cont.)

Proposed Wyodak
(Air-cooled)
(See details under Black Hills Power & Light)

Proposed Sheridan Plant
Sheridan Co.: no specific site
Planned capacity: 500 MW by mid-1980's
Fuel requirements: 1.5 mtpy
(In study stage with sites in Washington and Oregon also under consideration; coal would be supplied from a mine in Sheridan Co., WY or from the Decker mine in MT even if the plant isn't built in Wyoming; considering shipping coal by rail or slurry pipeline if necessary.)

TIPPERARY CORPORATION
Midland, TX
Proposed Clock Plant
Sheridan or Johnson Co.: Ucross, WY
No specific site or plans given (status unclear at this time.)

TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.
P. O. Box 29198
Northbenn, CO 80229
(See Missouri Basin Power Project)

UTAH POWER AND LIGHT COMPANY
D. L. Bryner, Vice President
P. O. Box 899
1407 West North Temple Salt Lake City, UT 84110
(801) 350-3110

Naughton Plant
Lincoln Co.: Kemmerer, WY
T.21N., R.116W., Section 17
Capacity: 710 MW (3 units)
Expansion: 430 MW by 1976 (4th unit)
430 MW by 1979 (5th unit)
Total planned capacity: 1570 MW by 1979
Fuel requirements: 5 mtpy max.

*ton - tons per year
**tph - million tons per year
*MW - megawatt or 1 million watts
COAL CONVERSION PLANTS

CARTER OIL COMPANY
P. O. Box 120
Denver, CO 80201
(303) 761-6470

Type of plant: Gasification
Size of plant: 250 mcmfd/day
Status: Study and planning began in 1974; possibly planned for the 1980's, although status unclear
Location: Probable site in T.51N., R.82W. (Campbell County)

CHAMPLIN PETROLEUM COMPANY
Fort Worth, TX

Type of plant: Gasification
Size of plant: 250 mcmfd/day
Status: Studying feasibility
Location: Southern Wyoming

COLORADO INTERSTATE GAS COMPANY
2951 Chambers Road
Denver, CO 80239
(303) 364-2611

Type of plant: Gasification
Size of plant: Unspecified
Status: Studying feasibility
Location: Southwestern Wyoming (Sweetwater County)

NORTHERN NATURAL GAS COMPANY
(Joint venture with Peabody Coal Co. and Cities Service Gas Co.)

J. R. Brady
2223 Dodge Street
Omaha, NE 68102
(402) 348-4789

Type of plant: Gasification
Size of plant: 250 mcmfd/day
Status: Studying feasibility of building four plants in Montana and/or Wyoming; current status unclear
Location: Montana and Wyoming

PANHANDLE EASTERN PIPE LINE COMPANY

G. J. Kirk, Vice President
P. O. Box 1642
Houston, TX 77001

(See Wyoming Coal Gas Company)

TEXACO, INC.

Jim Logan
Wyoming Division
Swey, WY 82842
(307) 683-2930

Type of plant: Gasification
Size of plant: Demonstration
Status: Filed application for joint funding by ERDA in 1975; application denied in June, 1976; current status unclear
Location: Sheridan or Johnson County

WYOMING COAL GAS COMPANY
(Joint venture of Wy Coal Gas, Inc., a subsidiary of Panhandle Eastern Pipe Line Co., and Rockelle Coal Co., a subsidiary of Peabody Coal Co.)

R. R. Newson
P. O. Box 1642
Houston, TX 77001
(713) 664-3401 or 800-442-6910 (a toll free information number)

Type of plant: Gasification
Size of plant: 270 mcmfd/day
Status: Planned for completion in 1979-1980
Location: T.35N., R.70W., Section 14 (Converse County)
Coal requirements: 9.3 mtpy
Water requirements: 4,750-11,000 acre ft./yr.
Cost: $1.3 billion
AMAX COAL COMPANY

W. B. Hooper, President
105 S. Meridian Street
Indianapolis, IN 46225
(317) 266-2626

Jack Lautenschlager, General Manager
205 Ross
Gillette, WY 82716
(307) 682-8857

Federal coal leases: 2 leases totaling 5,880.31 acres (Campbell County)

State coal leases: 1 lease of 640 acres (Campbell County)

Belle Ayr South
(strip)

A. J. Arnold, Mine Superintendent
P. O. Box 1890
Gillette, WY 82716
(307) 682-7295

Campbell Co., south of Gillette

T.48N., R.71W., Section 44
Coal field: Powder River
Coal name: Wyoming-Anderson
Rank: Subbituminous
Coal thickness: 70 ft.
Overburden: 15-200 ft. (30 ft. now)
Mining method: Shovel-truck

1976 production: 2,288,600 tons
Est. 1976 production: 6.5 myntons
Est. 1980 production: 10-15 myntons

Employees, 1975: 75
Est. employees, 1976: 150
Est. employees, 1980: 225-250
Est. employees, 1985: 250-300

Unit trains, 1975: 7-9 trains/week
Est. total reserves: 400 myntons

Proposed Belle Ayr North
(strip)

Campbell Co., north of Gillette

T.51N., R.72W., Section 27
Coal field: Powder River
Coal name: Wyoming-Anderson

(2 benches)
Rank: Subbituminous
Coal thickness: 50-120 ft.; 15-80 ft.
Overburden: max. 200 ft.
Mining method: Shovel truck

Open pit: Planned for 1975
Est. 1985 production: 15-20 myntons
Est. employees, 1980: 250
Est. employees, 1985: 250-300
Est. total reserves: 500 myntons

(Amax Coal Company cont.)

Amax Contracts

American Electric Power Co. (AEP),
New York, NY
Begins some coal into the Ohio River Valley; no details

Indiana & Michigan Electric Co. (AEP)
Sullivan, IN
25 yr. contract for est. 200 myntons @ 7-10 myntons; begins 1976;
for 2600 MW power plant (probably expansion of Breed Plant)

Iowa Southern Utilities Co.
Burlington, IA
No contract details; may no longer be active; began before 1975; for
207 MW Burlington Plant.

Kansas Gas and Electric Co. and
Kansas City Power & Light Co.
La Cygne (Kansas City), MO
30 yr. contract for est. 20 myntons @ 1 mynton/month begins 1976; for
630 MW La Cygne Station power plant.

Kans SA Power & Light Co.
St. Mary’s (Topeka), KS
40 yr. contract for 200 myntons @ est. 5 myntons; begins 1978; for
2800 MW power plant.

Portland General Electric Co.
Boardman, OR
24 yr. contract for est. 30 myntons @ 1.2 myntons; begins 1975; for
550 MW Boardman Station (Est. 56-6.50 per ton FOB mine).

Public Service Company of Colorado
Denver, CO.
No contract details; began in 1973; for power plant (est. 1 mynton).

Public Service Company of Colorado
Pueblo, CO
20 yr. contract for 20 myntons @ est. 1 mynton began 1973; for 350
MW Comanche Plant.

Southwestern Electric Power Co.
Avinger (Cason), TX
25 yr. contract for 42.5 myntons @ est. 1.5 myntons begins 1976; for
526 MW Welsh Plant and 530 MW Cason Plant.

Southwestern Electric Power Co. and
Arkansas Electric Co-Operative Corp.
Hope Springs, AR
Contract for 1.75 myntons begins 1980; no other details; for 530 MW Flint
Creek Plant

Est. 1980 production based on these
contracts is 24.5 myntons.

ARCO MINERAL CORPORATION

(Joint venture of Hunt Enterprises
and Ashland Oil Co.)

W. S. Hand, President
500 N. Broadway
St. Louis, MO 63102
(314) 231-1010

Federal coal leases: 10 leases totaling 11,815.99 acres (Carbon County) listed as Ark Land Co., or Medicine Bow Coal Co.
State coal leases: 90 leases totaling 84,253.35 acres (9 counties)

Seminoe No. 1

John Hamby, Mine Superintendent
Box 459
Hanna, WY 82319
(307) 325-6281

Carbon Co.: West of Hanna
T.22N., R.83W., Section 7
Coal field: Hanna
Coal names: Bed No. 24, Bed No. 25
Rank: Subbituminous
Coal thickness: 19-22 ft., 4-7 ft.
Overburden: 40-200 ft.
Mining method: Dragline

1975 production: 2,759,164 tons
Est. 1976 production: 3 myntons
Est. 1980 production: 3 myntons
Employees, 1975: 125
Employees, 1976: 125
Employees, 1980: 165
Unit trains, 1975: 6-7 trains/week
Est. total reserves: 75 myntons

Seminoe No. 2

Bob Wunderlich, Mine Superintendent
(Address as above)
(307) 325-6556

Carbon Co.: north of Hanna
T.22N., R.81W., Section 4
Coal field: Hanna
Coal name: Hanna No. 2
Rank: Subbituminous
Coal thickness: 35 ft.
Overburden: 40-250 ft.
Mining method: Dragline
Opened: 1972
1975 production: 2,941,432 tons
Est. 1976 production: 2.5 myntons
Est. 1980 production: 1,9-2.3 myntons
Employees, 1975: 85
Employees, 1976: 85
Employees, 1980: 85
Unit trains, 1975: 4-5 trains/week
Est. total reserves: 75 myntons

4
Proposed China Butte Area
(strip)

(Join venture with Rocky Mountain Energy Co.)

Carbon Co.: southwest of Rawlins, T.18N., R.91W., Section 15
Coal field: Little Snake River
Coal names: Ft. Union coals designated A-C
Rank: Subbituminous
Coal thickness: Range from 4-26 ft.
Overburden: Max. 150 ft.
Mining Method: Dragline-shovel-truck
Opened: Planned 1979
Est. 1980 production: 1-4 myn tons
Est. employees, 1980: 100
Unit trains: Yes
Est. total reserves: 144 myn tons

Arch Mineral Contracts

Commonwealth Edison Co.
 Hammond, IN and Waukegan, IL
 Contract for est. 3 mtpy began
 1973; no other details; for 944 MW
 State Line Plant and 1047 MW
 Waukegan No. 1 Plant.
 Kansas City Power & Light Co.
 Kansas City, MO
 Contract for 1 mtpy began 1973;
 no other details; for power plant.
 Wisconsin Electric Power Co.
 Milwaukee, WI
 11 yr. contract for 8 mpy tons @ est.
 750,000 bhp; for 1500 MW Oak Creek Plant
 Other miscellaneous shipments to
 Nebraska and Iowa power plants.
 Est. 1980 production based on these
 contracts is 4.9 mtpy.

Atlantic Richfield Contracts

Hugh Evans, Coal Operations Manager
1500 Security Life Building
Denver, CO 80202
(303) 573-3518

Brook Beal
316 South Gillette Avenue
Gillette, WY 82716

Federal coal leases: 3 leases totaling
11,634.31 acres (Campbell County)
State coal leases: 32 leases totaling
31,757.73 acres (Campbell and
Converse Counties)

Proposed Black Thunder
(strip)

Campbell Co.: south of Gillette
T.43N., R.70W., Section 27
Coal field: Gillette
Coal name: Wyodak-Anderson
Rank: Subbituminous C
Coal thickness: 60-70 ft.
Overburden: 15-240 ft.
Mining method: Shovel-truck
Opened: Planned for 1977-1979
Est. 1980 production: 10 myn tons
Est. employees, 1980: 225-500
Unit trains: Planned
Est. total reserves: 725 myn tons

Proposed Coal Creek
(strip)

Campbell Co.: south of Gillette
T.46N., R.70W., Section 18
Coal field: Gillette
Coal name: Wyodak-Anderson
Opening: Planned for late 1979's
Est. 1980 production: 5-10 myn tons
Est. employees, 1985: 250-400

Atlantic Richfield Contracts

Nebraska Public Power District
Sutherland, NE
20 yr. contract for est. 36 myn tons @ 1.8 mtpy begins 1977; for
600 MW Gerald Gentlemen Station
Oklahoma Gas & Electric Co.
Muskogee, OK
20 yr. contract for est. 80 myn tons @ 3 mtpy begins 1976; for
1100 MW Muskogee Plant
Southwestern Public Service Co.
Amarillo, TX
20 yr. contract for est. 40 myn tons @ 2 mtpy begins 1975; for
720 MW Harrington #1 Plant
Est. 1980 production based on these
contracts is 6.8 mtpy.

Big Horn No. 1
(strip)

Ed Temple, Mine Superintendent
(Addres and phone as above)
Sheridan Co.: north of Sheridan
T.56N., R.84W., Section 22
Coal field: Sheridan
Coal names: Monarch, Dietz #3;
Dietz #2
Rank: Subbituminous
Coal thickness: 22-26 ft., 21-25 ft.,
10-11 ft.
Overburden: 15-250 ft.
Mining method: Scraper-shovel-truck
Opened: 1944
1975 production: 123,713 tons
Est. 1976 production: 118 myn tons
Est. 1976 production: 1.5 myn tons
Employees, 1975: 80
Est. employees, 1976: 80
Est. employees, 1980: 80
Unit trains: No

Big Horn Contracts

Illinois Power Co.
Havana, IL
Contract began prior to 1974; no
other details; for 260 MW Havana Plant
Kansas City Power & Light Co.
Kansas City, MO
Contract for est. 350,000 tpy began
before 1973; no other details; for
power station
Northern States Power Co.
Sioux Falls, SD
Contract began before 1973; no
other details; for 45 MW Lawrence
Plant
Northwestern Public Service Co.
Aberdeen & Mitchell, SD
Contract began before 1973; no
other details; for 12.5 MW Aberdeen
Plant and 12.5 MW Mitchell Plant

Big Horn Coal Company
(Subsidiary of Peter Kiewit Sons, Co.)

John F. Ratcliff, Vice President
Box 724
Sheridan, WY 82801
(307) 672-3401 or 674-6415
Federal coal leases: 1 lease of 80
acres (Sheridan County)
State coal leases: 1 lease of 640
acres (Sheridan County)

5
(Big Horn Coal Co. cont.)

Also marketed to Great Western Sugar in Nebraska and Montana; Montana-Dakota Utilities in Wyoming; other industrial and domestic users in South Dakota, Idaho, Iowa, North Dakota, Minnesota, Washington, and Wyoming

Est. 1960 production from these contracts is 1.5 million tons.

BITTER CREEK COAL COMPANY

(Subsidiary of Rocky Mountain Energy Company)

Suite 500, 2nd National Bank Bldg.
621 17th Street
Denver, CO 80202
(303) 893-7377

(See Black Butte Coal Co.)

BLACK BUTTE COAL COMPANY

(Joint venture of Bitter Creek Coal Co., a subsidiary of Rocky Mountain Energy Co., and Wyana, Inc. a subsidiary of Peter Kiewit Sons Co.)

P.O. Box 724
Sheridan, WY 82801
(307) 671-1401

Federal coal leases: 5 leases totaling 14,900 acres were issued in March 1976 under Rosebud Coal Sales

State coal leases: None

Proposed Black Butte (strip)

Jim Wilson, Mine Manager
Black Butte Coal Company
Box 98
Point of Rocks, WY 82942
(307) 662-6613

Sweetwater Co.; near Point of Rocks
T.19N., R.100W., Section 27
Coal field: Rock Springs
Coal names: Deadman, Ute, Labar, Nuttal, Overland, Gibraltar, Black Butte, Maxwell, and Hali
Rank: Subbituminous
Coal thickness: 5-25 ft.
Overburden: 40-150 ft.
Mining method: Dragline

(Black Butte Coal Co. cont.)

Opened: Planned for 1978
Est. 1980 production: 4-4.5 mln tons
Est. 1980 employees: 200-220
Unit trains: Planned
Est. total reserves: 83-110 mln tons

Black Butte Contracts

Idaho Power Co.
Near Boise, ID
20 yr. contract for 82.6 mln tons @ 4-4.5 mtpy begins 1977; for 1000 kW power plant
Est. 1980 production from this contract is 4-4.5 mtpy.

BRIDGER COAL COMPANY

(Subsidiary of Pacific Power & Light Company)

920 S. W. 6th Avenue
Portland, OR 97204
(503) 226-7471

Federal coal leases: 3 leases totaling 8,435.68 acres (Sweetwater County)

State coal leases: 1 lease of 1,200 acres (Sweetwater County)

Jim Bridger

(strip)

Andrew Franklin, Mine Manager
P.O. Box 1668
Rock Springs, WY 82901
(307) 382-9741

Sweetwater Co.; near Point of Rocks
T.21N., R.100W., Section 20
Coal field: Rock Springs
Coal names: Deadman (upper & lower)
Rank: Subbituminous
Coal thickness: 15-20 ft.
Overburden: 40-150 ft.
Mining method: Dragline

Open: 1974
1975 production: 1,862,125 tons
Est. 1976 production: 1.8 mln tons
Est. 1980 production: 7.3 mln tons
Est. 1980 employees: 300

Proposed Coballo

(strip)

Campbell Co.; south of Gillette
T.9N., R.73W., Section 16
Coal field: Powder River
Coal name: Wyodak-Anderson
Rank: Subbituminous
Coal thickness: 25 and 82 ft.
Overburden: 20-260 ft.
Mining method: shovel-truck-scraper
Open: Planned for 1977
1974 production: 5-12 mln tons
1975 production: 22 mln tons
Employees: 300

Proposed Gable

(strip)

Campbell Co.; south of Gillette
T.10N., R.73W., Section 16
Coal field: Powder River
Coal name: Wyodak-Anderson
Rank: Subbituminous
Coal thickness: 30 ft.
Overburden: 20-200 ft.
Mining method: Probably shovel-truck-scraper
Open: Planned for late 1976 or 1977

(Bridger Coal Co. cont.)

Jim Bridger Contracts

Pacific Power & Light Co. and Idaho Power Co.
Point of Rocks, WY: 140 mln tons are dedicated to the 2000 MW Jim Bridger Plant @ up to 7.5 mtpy

CARTER MINING COMPANY

(Subsidiary of Exxon Corporation)

C. F. Smith, Jr., President
P.O. Box 120
Denver, CO 80201
(303) 761-2950

or

Box 209
Gillette, WY 82716
(307) 682-7253

Federal coal leases: 4 leases totaling 11,570.5 acres (Campbell County)
State coal leases: 158 leases totaling 152,655.19 acres (4 counties)

Proposed North Rawhide

(strip)
(Carter Mining Co. cont.)
Est. 1980 production: 2-5 mln tons
Est. 1980 employees: 150
Unit trains: Planned
Est. total reserves: Unknown
(Announced intentions to open this mine on State and private lands because of the lack of a federal mining permit at the North Rainier Mine. Current status unclear.)

(Columbine Mining Co. cont.)
1975 production: 56,042 tons
Est. 1976 production: 100,000 tons
Est. 1980 production: 200,000 tons
Est. employees, 1975: 71
Est. employees, 1976: 70
Est. employees, 1980: 70
Unit trains: No

(Columbine Mining Co. cont.)

(Columbine Contracts)
Entire production is converted into synthetic coke at mine mouth plant. Coke is sold to Monsanto Company's phosphoric plant, Soda Springs, ID (formerly owned by Gunn-Quayly Coal Company).

DANA COAL COMPANY
(Subsidiary of Arch Mineral Corp.)
W. C. Rockman, President
319 North 4th Street
St. Louis, MO 63102
(314) 231-1010
(See Medicine Bow Coal Company.)

DRAVO CORPORATION
Robert Dickey, III
One Oliver Plaza
Pittsburgh, PA 15222
(See Rocky Mountain Energy Company.)

DRUMMOND COMPANY
Garry R. Drummond, President
P.O. Box 1549
Jasper, AL 35501
(205) 287-0501
(See Rocky Mountain Energy Company)

EL PASO NATURAL GAS COMPANY
(Joint venture with Western Fuel Association)
John P. Jones, Manager
P.O. Box 1402
El Paso, TX 79978

Federal coal leases: Only prospecting permits
State coal leases: None

(El Paso Natural Gas Co. cont.)
Proposed Thunderbird
(strip)
Campbell and Johnson Co.: east of Buffalo
T.50N., R.76W.
Coal field: Powder River
Coal names: Felix and Ulm
Rank: Subbituminous
Coal thickness: 12-15 ft.
Overburden: Less than 150 ft.
Mining method: Unspecified
Opened: Planned for late 1970's
Est. 1980 production: 3-5 mln tons
Est. 1980 employees: Unspecified
Unit trains: Probable

El Paso Contracts
Western Fuel Association for 1500
MM Laramie River Station, Wheatland, WY, and for unspecified power plants in Colorado, North Dakota and Louisiana. No details on contracts.

ENERGY DEVELOPMENT COMPANY
(Subsidiary of Iowa Public Service Co.)
Frank Griffith, President
Box 778
Sioux City, IA 51102
(712) 277-7500

Rimrock
(strip)
Tom Bennett, General Superintendent
Resource Exploration & Mining
Box 6
Hanna, WY 82337
(307) 325-6631

Carbon Co.: west of Hanna
T.29N., R.82W., Sections 4 & 9
Coal field: Hanna
Coal name: Brooks
(Energy Development Co. cont.)

Coal thickness: 7.5 ft.
Overburden: 40-80 ft.
Mining method: Dragne
Open date: 1970
1975 production: 669,100 tons
1976 production: 760,000 tons
1976 production: 77
Employees: 1975: 77
Employees: 1976: 77
Unit trains: See Vanguard No. 2

Vanguard No. 2
(deep)

Carbon Co.: west of Hanna
T.22N., R.32W., Section 8
Coal field: Hanna
Coal name: Red No. 65
Rank: Subbituminous
Coal thickness: 9 ft.
Max depth: 300-400 ft.
Mining method: Continuous miners
Open date: 1971
1975 production: Included with Vanguard No. 2
Employees: 1975: 10
Employees: 1976: mine closed
Vanguard No. 2
(deep)

Doyle Estes, General Foreman
P. O. Box 36
Hanna, WY 82217
(307) 325-6666

Carbon Co.: west of Hanna
T.22N., R.32W., Section 18
Coal field: Hanna
Coal name: Red No. 50
Rank: Subbituminous
Coal thickness: 8.5 ft.
Max depth: 300 ft.
Mining method: Continuous miners
Open date: 1972
1975 production: 309,786 tons
1976 production: 1.20 mln tons
Employees: 1975: 114
Employees: 1976: 150
Unit trains: 7-3 trains/week

Vanguard No. 3
(Address and phone as above)

Carbon Co.: west of Hanna
T.22N., R.32W., Section 7
Coal field: Hanna
Coal name: Red No. 65
Rank: Subbituminous

Coal thickness: 9 ft.
Max depth: Unknown
Mining method: Continuous miners and conventional
Open date: 1975
1975 production: Included with Vanguard No. 2
1976 production: 300,000 tons
Employees: 1975: 39
Employees: 1976: 150
Unit trains: See Vanguard No. 2

Proposed Red Rim Area
(strip)

Carbon County; southwest of Rawlins
T.20N., R.10W., Section 36
Coal field: Little Snake River
Coal name: Ft. Union coal designated A-H
Rank: Subbituminous
Coal thickness: 4-24 ft.
Overburden: 150 ft.
Mining method: Unspecified
Open date: Planned for 1979
1980 production: 2-2.5 mln tons
Employees: 1980: 100
Unit trains: Probable
total reserves: 99 mln tons

Energy Contracts

Iowa Public Service Co.
Galva, IA
All production now dedicated to
the 520 MW George Neal Plant

FALCON COAL CO., INC.
(Falcon Seabord, Inc.)
J. C. Jackson, President
P. O. Box 699
Jackson, WY 82133
(307) 666-7591

Proposed Mine
(strip)

Campbell Co.; south of Gillette
T.51N., R.24W., Section 18, SW 1/4
Coal field: Powder River
Coal name: Elk
Rank: Subbituminous
Coal thickness: Unspecified
Overburden: Unspecified
Mining method: Unspecified
Open date: Planned for 1977 or later
1977 production: 350,000 tons
Unit trains: Unlikely

FMC COAL COMPANY

609 W. Maple St. W.
Pocatello, ID 83201

Federal coal leases: 3 leases totaling
3,968 acres (Uinta and Lincoln Counties)

State coal leases: None

Proposed FMC
(strip)

Russell R. Hume
Natural Resources Dept.
P.O. Box 431
Kemmerer, WY 83101
(307) 877-1916

Lincoln Co.; south of Kemmerer
T.20N., R.11W., Section 27
Coal field: Kemmerer
Coal name: Advallie No. 1
Rank: Subbituminous
Coal thickness: 40-60 ft.
Overburden: 60-120 ft.
Mining method: Unknown
Open date: Planned for 1976
1976 production: 600,000 tons
1980 production: 1-2 mln tons
Employees: 50-60
Employees: 60-100
Unit trains: No

FMC Contracts

Most production will go to the FMC's
Green River trona plant, Green
River, Wyoming; some to FMC's pro-
cess coke plant, Kemmerer, WY

HANNA BASIN COAL COMPANY

(Subsidiary of Rocky Mountain Energy
Company)

Suite 900, 621 17th Street
Denver, CO 80202
(303) 891-3737

(See Medicine Bow Coal Co.)

IDEAL BASIC INDUSTRIES, INC.

Mayfield H. Shilling, President
821 17th Street
Denver, CO 80202
(303) 222-5661

(See Stansbury Coal Company)
KEMMERER COAL COMPANY

John L. Kemmerer, Jr., Chairman
120 Broadway
New York, NY 10005
(212) 732-0191

or

Roy Coulson, President
Frontier, WY 83121
(307) 877-4452

Federal coal leases: 6 leases totaling 6,584.81 acres (Lincoln Co.)
State coal leases: 41 leases totaling 40,391.65 acres (3 counties)

Elkol
(strip)

Mike Zakotnik, Jr., General Mgr.
Frontier, WY 83120
(307) 877-4452

Lincoln Co.: near Kemmerer
T.21N., R.116W., Section 20
Coal field: Kemmerer
Coal name: Adaville No. 1
Rank: Subbituminous B
Coal thickness: 50-60 ft.
Overburden: 130-160 ft.
Mining method: Scraper-truck
Open: 1975
1975 production: 1,015,831 tns
Est. 1976 production: 900,000 tns
Est. 1980 production: 1 mln tns
Employees, 1975: 150
Est. employees, 1976: 150
Est. employees, 1980: 150
Unit trains: No

Sorensen
(strip)

Mike Zakotnik, General Manager
(Address and phone same as above)

Lincoln Co.: near Kemmerer
T.21N., R.116W., Section 19, 20, 21
T.20N., R.117W., Sections 2, 3, 10
Coal field: Kemmerer
Coal names: Adaville No. 2 thru Adaville No. 11
Rank: Subbituminous B
Coal thickness: 4-35 ft.
Overburden: 20-40 ft. (total relief in Big Pit approx. 300-400 ft.)
Mining method: Combination of scrapers, draglines, shovels, and trucks
Open: 1963
1975 production: 1,717,258 tons

(Kemmerer Coal Company cont.)
Est. 1976 production: 2.5 mln tns
Est. 1980 production: 3.5 mln tns
Employees, 1975: 240
Est. employees, 1976: 240-350
Est. employees, 1980: 350-400
Unit trains: No

Proposed North Block Mine Area
(strip)

Lincoln Co.: northwest of Kemmerer
T.21N., R.116W., Section 5
Coal field: Kemmerer
Coal name: Adaville coals
Rank: Subbituminous
Coal thickness: 2.5-18 ft.
Overburden: 40-240 ft. est.
Mining method: Dragline
Open: Planned for 1978-1980
Est. 1980 production: 2.4 mln tns
Est. employees, 1980: Unspecified
Unit trains: No

Kemmerer Contracts

Allied Chemical Co.
Green River, WY
Contract for up to 600,000 tons per yr., began 1973; 2nd year details, for Allied's trona plant

Amalgamated Sugar Co.
Id and OR
Contract for several hundred thousand tons per yr.: 2nd year details, for beet sugar factories

Utah Power & Light Company
Kemmerer, WY
23 yr. contract for est. 100 mln tns @ 2.5-5 mtpy began prior to 1973; uses all coal mined from the Sorensen mine; for 710 MW Naughton Plant (under expansion to 1250 MW)

Miscellaneous cement and domestic contracts in Utah, Wyoming and Nebraska

Est. 1980 production based on these contracts is 4-6 mln tns

KERR-McGEE COAL CORPORATION

(Subsidiary of Kerr-McGee Corporation)

Frank A. McPherson, President
North Walker
Kerr-McGee Rldg.
Oklahoma City, OK 73102
(405) 236-1313

(Kerr-McGee Coal Corp. cont.)

or

405 Church Street
Gillette, WY 82716
(307) 682-4721

or

Roy Smith, Wyoming Manager
508 North Pawnee
Casper, WY 82601
(307) 265-7811

Federal coal leases: 5 leases totaling 8,695.19 acres (Campbell Co.)
State coal leases: 14 leases totaling 6,010.06 acres (4 counties)

Proposed East Gillette
(strip)

Campbell Co.; east of Gillette
T.50N., R.71W.
Coal field: Gillette
Coal name: Wyodak-Anderson
Rank: Subbituminous
Coal thickness: 50-75 ft.
Overburden: Less than 200 ft.
Mining method: Unspecified
Open: Planned for 1979
Est. 1980 production: 1-5 mln tns
Est. 1985 production: 11-16 mln tns
Est. employees, 1980: 100-250
Unit trains: Planned
Est. total reserves: 570 mln tns

Proposed East Gillette No. 16
(strip)

Campbell Co.; east of Gillette
T.50N., R.71W., Section 16
Coal field: Gillette
Coal name: Wyodak-Anderson
Rank: Subbituminous
Coal thickness: 50-75 ft.
Overburden: Less than 200 ft.
Mining method: Unspecified
Open: Planned for 1979
Est. 1980 production: 4 mln tns
Est. employees, 1980: 100
Unit trains: Planned
Est. total reserves: 68 mln tns

Proposed Jacobs Ranch
(strip)

Campbell Co.; south of Gillette
T.43N., R.70W., Section 15
Coal field: Gillette
Coal name: Wyodak-Anderson
3 benches
Rank: Subbituminous
Coal thickness: 8 ft.; 43 ft.; 6 ft.
Overburden: 10-150 ft.
MEDECINE BOW COAL COMPANY

(Joint venture of Hanna Basin Coal Co., a subsidiary of Rocky Mountain Energy Co., and Dana Coal Co., a subsidiary of Arch Mineral Corp.)

Cedric Rustace, Secretary
550 North Broadway
St. Louis, MO 63102
(314) 221-1010

Federal coal leases: Listed under Arch Mineral (Ark Land)
State coal leases: Listed under Arch Mineral (Ark Land)

Medicine Bow
(strip)

Gene Grubauh, Nine Superintendent
Box R
Hanna, WY 82327
(307) 325-6586

Carbon Co.; west of Hanna
T.23N., R.43W., Section 32
Coal field: Hanna
Coal names: Bow A. 62; 63; 64; 65; 66

Rank: Subbituminous
Coal thickness: 3-10 ft.
Overburden: 20-200 ft.
Mining method: Dragline
Opened: 1975
1975 production: 2,506,379 tons
Est. 1980 production: 3.6 my tons
Employees, 1975: 112
Est. employees, 1980: 115-300
Unit train: 2-3 trains/week
Est. total reserves: 36 my tons

MEDICINE BOW COAL CONTRACTS

Iowa Public Service Co.
Sioux City, IA

Long term contract, but no details;
possibly going to the 104 MW Hay

KANSAS CITY POWER & LIGHT CO.
Tupelo, KS

Long term contract, but no details.

Northern Indiana Public Service Co.
Wheatfield, Ind.

10 yr. contract for 15 my tons @
est. 1.5 mpy begins 1975; for 500
NW Kankakee Valley Plant

Est. 1980 production based on these
contracts is 3.0 my tons.

MOBIL OIL CORPORATION

P. O. Box 5444
Denver, CO 80217
(303) 577-3636

(Holds large coal leases in Campbell
and Johnson Counties; plans not yet firm:
possible coal conversion plant in late 1980's; large contiguous blocks of State coal leases in
Johnson County contain an estimated
500 my tons of coal.)
Federal coal leases: 1 lease of 4000
acres (Campbell County)
State coal leases: 21 leases totaling
21,482.29 acres (Johnson &
two other counties)

Proposed Mine
(strip)

Campbell County, south of Gillette
T.47N., R.71W., Section 5
Coal field: Gillette
Coal name: Wyodak-Anderson
Rank: Subbituminous
Opened: Planned for 1978-1979
Est. employees, 1985: 650

NORTHWESTERN RESOURCES

(Subsidiary of Western Energy Co.,
Billings, Montana)

Roger C. Rice, Sr., Manager of
Exploration & Development
113 North Broadway
Billings, MT 59101
(406) 252-2277

Federal coal leases: 1 lease of 120
acres (Hot Springs County)
State coal leases: 4 leases totaling
1,969.6 acres (Hot Springs County)
Grass Creek
(strip)

George Kornick, Nine Superintendent
Box 608
Thermopolis, WY 82443
(Forme Dusky Diamond Coal Co.)

Hot Springs Co.; near Grass Creek
T.46N., R.99W., Section 26
Coal field: Grass Creek
Coal name: Hayfield; Dein
Rank: Subbituminous
Coal thickness: 24-32 ft.; unspecified
Overburden: thin
Mining method: Front-end loader
Opened: 1975

KERR-MCGEE COAL CORP. cont.)

Mining method: Shovel-truck
Opened: Planned for 1977-1979
Est. 1980 production: 9-16 my tons
Est. employees, 1980: 250-300
Unit trains: Planned
Est. total reserves: 319 my tons

KERR-MCGEE CONTRACTS

Arkansas Power & Light Co.
White Bluffs near Redfield, AR
20 yr. contract for 100 my tons
@ 5 mpy begins 1977; 10 yr option
on another 50 my tons; for 1600
MW White Bluff Plant

Central Louisiana Electric Co.
Boyle, LA
20 yr. contract for 34 my tons @
est. 1.75 mpy begins 1978; 10 yr.
option on another 16 my tons; for
430-450 MW Rademaker Station

Gulf States Utilities Co.
Westlake near Lake Charles, LA
20 yr. contract for 50 my tons @
est. 2.25 mpy begins 1977; for two
540-550 MW power plants

Public Service Company of Oklahoma
16 yr. contract for 50 my tons @
est. 3.6 mpy; begins 1978; for
1980 MW Northwestern plant at
Oologah, OK

Est. 1980 production based on these
contracts is 11.6 my tons.

MAPCO COALS, INC.

(Division of Mapco, Inc.)

Frederick N. Murray, Chief Geologist
Manager of Exploration and Land
P. O. Box 3144
Casper, WY 82601
(307) 265-1410

Federal coal leases: None
State coal leases: 148 leases totaling
138,226.88 acres (5 counties)
(Not a large number of contiguous
state coal leases in Sheridan and
Johnson counties; plans not yet
announced).
(Northwestern Resources cont.)
1975 production: 2,794 tons
Est. 1980 production: 0.7-1.0 mln tons
employees: 1,975
Est. employees, 1980: 15-50
Unit trains: No
Est. total reserves: 10 mln tons

Northwestern Resources
Contracts
Miscellaneous domestic users in Montana and Wyoming

PACIFIC POWER & LIGHT COMPANY
G. A. Duell, Manager Coal Resources
920 S.W. 6th Avenue
Portland, OR 97204
(503) 226-5411
Federal coal leases: 12 leases totaling 18,710.06 acres (3 counties)
State coal leases: 13 leases totaling 11,000 acres (3 counties)

Dave Johnston Fuel Recovery Pit
Ed Pinke, Mine Superintendent
Glenrock, WY 82637
(307) 436-2213

Converse Co.: near Glenrock
T.36N., R.75W., Section 34
Coal field: Glenrock
Coal name: School, Badger
Rank: Subbituminous C
Coal thickness: 30 ft.; 18 ft.
Overburden: 60-110 ft.
Mining method: Dragline
Opened: 1938
1975 production: 2,311,644 tons
Est. 1976 production: 2.8 mln tons
Est. 1980 production: 2.8 mln tons
Employees, 1975: 119
Est. employees, 1976: 110-120
Est. employees, 1980: 110-120
Unit trains: No; private railway
Est. total reserves: 125 mln tons

Pacific Power Contract

PAN EASTERN COAL COMPANY
(Subsidiary of Panhandle Eastern Pipe Line Company)
G. J. Kurk, President
P. O. Box 1642
Houston, TX 77001
(See also Rochelle Coal Company)

PEABODY COAL COMPANY
(Subsidiary of Kennecott Copper Corp.)
E. R. Phelps, President
301 N. Memorial Drive
St. Louis, MO 63102

45 South Main
Sheridan, WY 82801
(307) 673-6114

Fed. coal leases: 6 leases totaling 19,761.11 acres
(Campbell & Sweetwater counties)
State coal leases: 6 leases totaling 2,000 acres
(Campbell & Converse counties)

Proposed Mines (strip)
Reportedly studying or planning one or two strip mines in Wyoming; possibly for coal gasification plants of Northern Natural Gas Co.; mines to be located in Powder River Basin.

Larger Campbell County lease locations:
T.5N., R.71W.
T.4N., R.71W.
T.4N., R.70W.

Coal field: Powder River and Gillette
Coal name: Wyoak-Anderson or D
Rank: Subbituminous
Opened: Planned for late 1970's

PETER KIEWIT SONS' COMPANY
Romer A. Scott, Vice President Mines and Quarries
Minning District
P. O. Box 746
Sheridan, WY 82801
(307) 673-3411

(See Big Horn Coal Co., Black Butte Coal Co., and Rosebud Coal Sales Company)

(Peter Kiewit Sons' Co. cont.)
Federal coal leases: See Big Horn Coal Co., and Rosebud Coal Sales Company
State coal leases: 1 Lease of 640 acres (Carbon County)

POWDER RIVER COAL COMPANY
(Subsidiary of Peabody Coal Co.)
E. R. Phelps, President
301 N. Memorial Drive
St. Louis, MO 63102
(See Rochelle Coal Company)

POTASH CORPORATION OF AMERICA
(Division of Ideal Basic Industries; see Stanbury Coal Company)

PUBLIC SERVICE COMPANY
OF OKLAHOMA
R. O. Newman, President
609 S. Main Street
Tulsa, OK 74102
(918) 583-3611

Federal coal leases: None
State coal leases: None

Proposed PSO No. 1 (strip)

John Burk, Mine Manager
Post Office Building
Sheridan, WY 82801

Sheridan Co.; near Montana line
T.5N., R.84W., Section 22
Coal Field: Sheridan
Coal name: Anderson; Diets
Rank: Subbituminous
Coal thickness: 100 ft.; 40-50 ft.
Overburden: Unspecified
Opened: 1975
Est. 1980 production: 500,000 tons
Est. employees, 1980: 45
Unit trains: No; plan to share Big Horn or other trackage

Public Service Contracts

Production will be used in the company's 643 MW Northeastern Plant (expanding to 1093 MW by 1979) and the 340 MW Riverside Plant (expanding to 750 MW by 1989).
RESOURCE EXPLORATION AND MINING, INC.

G. H. Bryant, President
Sherman Bldg., Room 520
799 Sherman Street
Denver, CO 80202
(303) 777-7777

(See Energy Development Co.)

ROCHELLE DEVELOPMENT CO.

(Joint venture of Powder River Coal Company, a subsidiary of Peabody Coal Co., and Pan Eastern Coal Co., a subsidiary of Panhandle Eastern Pipe Line)

G. J. Kurk
P. O. Box 1642
Houston, TX 77001

or

Peabody Coal Company
45 S. Main Street
Sheridan, WY 82801
(307) 674-6114

or

Panhandle Eastern Pipe Line Company
Suite 300, Wyoming Building
102 East 2nd Street
Casper, WY 82601
(307) 265-9202

Federal coal leases: 2 leases totaling 11,141.39 acres (Campbell Co.)
State coal leases: None

Proposed Rochelle

(Campbell Co.: southern boundary
T.41N., R.70W., Section 10
Coal field: Gillette
Coal name: Wyodak-Anderson ("D")
Rank: Subbituminous
Coal thickness: 52 ft.
Overburden: 20-150 ft.
Mining method: Dragline
Open: Planned for 1978-1979
Est. 1980 production: 5-12 mln tons
Est. employees: 1980: 225-290
Estimated total reserves: 500 mln tons

Proposed Black Butte

(Black Butte Coal Co.)
Proposed Carbon Basin

(Campbell County, WY
Coal field: Great Divide Basin
Overburden: 0-200 ft.
Est. total reserves: 1108 mln tons
Estimated early feasibility status: this township leased to Southern California Edison Company, Los Angeles (for possible liquefaction reserve)

Proposed South Haysstack

(Uinta Co.: northeast of Evanston
T.17N., R.11W.
Coal field: Kemmerer
Coal name: Audra Coal
Overburden: 0-650 ft.
Mining method: Open pit
Open: Planned for 1979
Est. total reserves: 50 mln tons

ROCKY MOUNTAIN ENERGY COMPANY

(Subsidiary of Union Pacific Corp.)

John M. Kelly, Chairman of Board
James C. Wilson, President
E. A. Lang, Vice President Engineering
John Brown, Manager, Coal Evaluation

4704 Harlan Street
Denver, CO 80222
(303) 433-6841

(See joint ventures with Rosebud Coal Sales [Black Butte Coal Co.]; Arch Mineral [Medicine Bow Coal Co. and China Butte property]; Ideal Basic Industries [Stansbury Coal Co.]; Energy Development Company [Red Rim property]; Sun Oil Co. [Long Canyon property]).

Fedral coal leases: None
State coal leases: 41 leases totaling 2,587.23 acres (1 county)

Proposed Atlantic Rim Area

(Joint venture with Drummond Co.; strip)
Carbon County: south of Rawlins
Coal field: Little Snake River
Coal name: Moose River coal designated A-D
Rank: Subbituminous B
Coal thickness: 3 ft. - 9.5 ft.
Overburden: approx. 200 ft.
Mining method: Strip
Open: Planned for 1978
Est. 1980 production: 2 mln tons
Estimated total reserves: 65-87 mln tons

Proposed Black Butte

(Strip: See Black Butte Coal Co.)
Proposed Carbon Basin

(Campbell County, south of Carbon
T.21N., R.79W.-80W.
Coal field: Hanna
Estimated total reserves: 276 mln tons
(In very early feasibility stage; not in planning stage yet)

Proposed Creston-Cherokee

(Sweetwater & Carbon Co.; near Creston
T.19N., R.91-92W.
Estimated total reserves: 360 mln tons
(In very early feasibility stage; not in planning stage yet)

Proposed Hanna

(Carbon Co.; north of Hanna
T.22N., R.81W., Section 23
Coal field: Hanna
Coal name: Red Mesa. 80 and 82
Rank: Subbituminous
Coal thickness: 15-20 ft.; 8-15 ft.
Overburden: Est. 500-900 ft.
Mining method: Continuous miners; retreat longwall panels; conventional
Open: Planned for 1978
Est. 1980 production: 2-2.5 mln tons
Estimated total reserves: 148 mln tons

Proposed Leucite Hills

(Sweetwater Co.: near Superior
T.21N., R.102W., and vicinity
Coal field: Rock Springs
Coal name: Unspecified
Open: Planned for 1981
Estimated total reserves: 168 mln tons
(Very early stage of study and planning)

Proposed Long Canyon

(Strip: See Sunoco Energy Development Co.)

Medicine Bow

(Strip: See Medicine Bow Coal Co.)

Proposed Red Desert

(Sweetwater Co.: north of Saratoga
T.22N., R.94W.
 Coal field: Great Divide Basin
Overburden: 0-200 ft.
Estimated total reserves: 1108 mln tons
Estimated early feasibility stage: this township leased to Southern California Edison Company, Los Angeles (for possible liquefaction reserve)

Proposed South Haysstack

(Uinta Co.: northeast of Evanston
T.17N., R.11W.
Coal field: Kemmerer
Coal name: Audra Coal
Overburden: 0-650 ft.
Mining method: Open pit
Open: Planned for 1979
Estimated total reserves: 50 mln tons
(In early planning stages)
Proposed Stansbury (Reliance)  
Proposed Twin Creek  
Proposed Winton  
Rocky Mountain Contracts  
RONCOCO COAL COMPANY, INC.  
(Ronco Coal Co., Inc. cont.)  
(Rosebud Coal Sales Co. cont.)
Both Mines Combined  
Rosebud Contracts  
Iowa Power & Light Co.

(Rocky Mountain Energy Co. cont.)

Proposed Stansbury (Reliance)  
(Joint venture with Peter Kiewit Co.)
Lincoln Co., northwest of Kemmerer  
T.21N., R.11E., Section 17  
Coal field: Kemmerer  
Coal name: Adaville coals (12 beds)  
Rank: Subbituminous  
Coal thickness: 5-60 ft.  
Overburden: 40-710 ft.  
Mining method: Shovel-truck-scraping  
Opened: Planned for 1977  
Est. 1980 production: 3 mn tons  
Est. employees, 1980: 356  
Unit trains: Planned  
Est. total reserves: 39 mn tons

Proposed Twin Creek  
(Strip)
Lincoln Co., northwest of Kemmerer  
T.21N., R.11E., Section 17  
Coal field: Kemmerer  
Coal name: Adaville coals (12 beds)  
Rank: Subbituminous  
Coal thickness: 5-60 ft.  
Overburden: 40-710 ft.  
Mining method: Shovel-truck-scraping  
Opened: Planned for 1977  
Est. 1980 production: 3 mn tons  
Est. employees, 1980: 356  
Unit trains: Planned  
Est. total reserves: 39 mn tons

Proposed Winton  
(Dep)  
Sweetwater Co., Winton, WY  
T.20N., R.10W.  
Coal field: Rock Springs  
Est. total reserves: 55 mn tons  
(300-1500 ft. of cover)  
(In very early feasibility stage)

Rocky Mountain Contracts  
See individual partners as noted above; R. Southern Services, Inc., Atlanta GA will receive at least some of the coal from the underground Hanna mine (plants located in Alabama, Georgia, Florida and Mississippi); no details on other proposed mines.

RONCOCO COAL COMPANY, INC.  
Leo Ronco, President  
Box 71  
Thermopolis, WY 82443  
(307) 864-2676 or 864-3819  
Federal coal leases: None  
State coal leases: None

Ronco  
(Dep)

(Ronco Coal Co., Inc. cont.)  
Cover: Approx. 600 ft.  
Mining method: Conventional room and pillar  
Opened: 1918  
1974 production: 2,830 tons  
Est. 1975 production: Closed  
Employees, 1974: 3  
Unit trains: No

Ronco Contracts  
Mississippi domestic users in Wyoming and Montana

ROSEBUD COAL SALES COMPANY  
(Subsidiary of Peter Kiewit Sons' Company)  
John Ratchye, Vice President  
P.O. Box 74  
Sheridan, WY 82801  
(307) 325-6885  
Federal coal leases: 2 leases totaling 969.46 acres (Carbon and Sweetwater Counties). (Additional leases under Black Butte Coal Co.)  
State coal leases: 3 leases totaling 1,920 acres (Carbon and Sweetwater Counties)

Rosebud Pit No. 4  
Tom Burnbeck, General Supervisor  
Hanna, WY 82214  
(307) 325-6885

Carbon Co.; near Hanna  
T.22N., R.8W., Section 3  
Coal field: Hanna  
Coal name: Bed No. 80  
Rank: Subbituminous  
Coal thickness: 15-20 ft.  
Overburden: 50-100 ft.  
Mining method: Dragline

Rosebud Pit No. 5  
(Address and phone same as No. 4)

Carbon Co.; near Hanna  
T.23N., R.8W., Section 34  
Coal field: Hanna  
Coal name: Bed No. 82  
Rank: Subbituminous  
Coal thickness: 11-15 ft.  
Overburden: 50-80 ft.  
Mining method: Dragline

Both Mines Combined  
Opened: 1961  
1975 production: 1,763,431 tons  
Est. 1976 production: 1.9 mn tons  
Est. 1980 production: 1.5 mn tons  
Employees, 1975: 115  
Est. employees, 1980: 115  
Unit trains: 6 trains/week

Rosebud Contracts  
Great Western Sugar  
No details; Utah, Colorado and Nebraska

Iowa Power & Light Co.  
Des Moines and Council Bluffs, IA  
Contract for est. 0.25 mtsp; no other details; for 119 MW Council Bluffs Plant and 330 MW Des Moines Power Station No. 2

Monolithic Portland Cement Co.  
Laramie, WY  
Contract for Laramie Cement Plant; no other details

Omaha Public Power District  
Omaha, NE  
Contract for est. 0.3 mtsp; no other details; for 646 MW North Omaha Station

Public Service Co. of Colorado  
Denver and Boulder, CO  
Contract for est. 0.5 mtsp; no other details; for power plants

Inland Steel Corporation  
No details

Iowa Public Service Company  
No details

Nebraska Power and Light Company  
No details

Miscellaneous domestic, industrial, and municipal users in Colorado, Iowa, Nebraska, Wyoming, Utah, Idaho, Wisconsin, Nevada, Oregon, South Dakota, and Washington  
Est. 1980 production based on these contracts is 1.5 mn tons.
SHELL OIL COMPANY
B. G. Long, Manager of Operations
Houston, TX

Federal coal leases: 1 lease of 595.44 acres (Campbell County)
State coal leases: 1 lease of 146 acres (Johnson County)

Proposed Buckskin (strip)
Campbell Co., north of Gillette
T.11N., R.72W., Section 5
Coal field: Powder River
Coal name: Wyodak-Anderson
Rank: Subbituminous
Coal thickness: 100 ft. with partings
Overburden: 100 ft. max.
Mining method: Unspecified
Opened: Planned 1979-1980
Est. 1980 production: 4 myn tons
Est. employees, 1980: 200
Unit trains: Unspecified
Est. total reserves: 100 myn tons

Shell Contracts
Reportedly for use in a Houston refinery.

STANSBURY COAL COMPANY
(Joint venture of Rocky Mountain Energy Co., a subsidiary of Union Pacific Corp., and Pottash Corp. of America, a subsidiary of Ideal Basic Industries, Inc.)

James C. Wilson, President
P. O. Box 8759
Denver, CO 80201
(303) 423-6041

Federal coal leases: 1 lease of 1,644.76 acres (Sweetwater County)
State coal leases: None

Proposed Stansbury No. 1 (strip)

Franklin Mink, Mine Superintendent
P. O. Box 2086
Rock Springs, WY 82901
(307) 362-5679

Sweetwater Co.: north of Rock Springs
T.20N., R.104W., Section 19
Coal field: Rock Springs
Coal names: Rock Springs Nos. 1, 3, 7, 7 1/2, 8, and 9
Rank: Bituminous

Stansbury Coal Co. cont.
Coal thickness: 5-13 ft.
Cover: 1800 ft. max.
Mining method: Multiple level; conventional and continuous miners
Opened: Planned for 1976-1978
Est. 1976 production: 50,000 tons
Est. 1980 production: 1.4 myn tons
Est. employees, 1976: 35
Est. employees, 1980: 60
Est. total reserves: 90-107 myn tons

Stansbury Contracts
Ideal Basic Industries, Inc.
For its cement plants in the western states

SUNOCO ENERGY DEVELOPMENT COMPANY
(Subsidiary of Sun Oil Co.)
Dwight Knott, Mine Representative
314 South Gillette Avenue
P.O. Box 1440
Gillette, WY 82716
(307) 682-7212

Federal coal leases: 5 leases totaling 74,598.03 acres (3 counties)
State coal leases: 1 lease of 640 acres (Converse County)

Proposed Cordero (strip)
James R. Nichols, Mine Manager
(Address and phone same as above)

Campbell Co.: south of Gillette
T.47N., R.71W., Section 23
Coal field: Gillette
Coal name: Wyodak-Anderson
Rank: Subbituminous
Coal thickness: 3 benches, each 20 ft.
Overburden: Less than 200 ft.
Mining method: Shovel-truck
Opened: Planned for 1979
Est. 1980 production: 12 myn tons
Employees, 1975: 146
Est. employees, 1980: 220-400
Unit trains: planned
Est. total reserves: 600 myn tons

Proposed Long Canyon Area (strip)
(Joint venture with Rocky Mountain Energy Co.)

Sweetwater Co.: north of Superior
T.21N., R.104W., approx. area
Coal field: Rock Springs
Coal names: Naporreva Fm. coals

(Sunoco Energy Develop. cont.)
Rank: Bituminous
Coal thickness: Unspecified
Cover: 200-1500 ft.
Opened: Planned for 1977
Est. 1980 production: 1 myn tons
Est. employees, 1979: 300-400
Est. total reserves: 122-176 myn tons (includes at least 7 myn tons that is strippable)

Sunoco Contracts
(Only related to Cordero Mine)
San Antonio City Public Service Board
San Antonio, Texas
20 yr. contract for 45,000 tons 0 est. 2.0 mtpy begins in 1976; for 1.300 MW Sommers Plant (Est. $35.00 per ton FOB mine)

Western Fuels Association
Wheatland, WY
20 yr. contract for 60 myn tons 0 mtpy begins in 1976; for 1500 MW Laramie River Station
Est. 1980 production based on these contracts is 5.8 myn tons

TEXACO, INC.
Jim Logan
Wyoming Division
Stony, WY 82942
(307) 682-1830

(Mine substantial coal lands near Lake De Smet (Johnson County) which they acquired from Reynolds Metals Co.; applied to ERDA for joint funding of a demonstration coal gasification facility in 1976, but turned down in mid-1976; rumored to start a strip mine about 1977 but status unclear)

Mine Name (strip)

Johnson Co.: near Buffalo
T.52N., R.82W.
Coal field: Buffalo
Coal name: Naporreva Fm.
Rank: Subbituminous
Coal thickness: 50-220 ft.
Opened: Rumored for 1977, but may hinge on acceptance of ERDA application

Texaco Contracts
No information on any contracts.
WELCH COAL COMPANY
(Subsidiary of Montana-Dakota Utilities Company)
William F. Welch, President Manager
1447 Stonegate Drive
P.O. Box 1066
Sheridan, WY 82801
(307) 625-8204

Welch
(strip)

(Address and phone same as above)
Sheridan Co.: north of Sheridan T.57N., R.68W., Section 22
Coal field: Sheridan
Coal name: Monarch
Rank: Subbituminous
Coal thickness: 5.5-12 ft.
Overburden: 30-40 ft.
Mining method: Front-end loader
Opened: 1949
1975 production: 18,307 tons
Est. 1976 production: 20,000 tons
Est. 1980 production: Probably will be shut down by then
Employees, 1975: 2
Unit trains: No

Welch Contracts
Montana-Dakota Utilities Co.
Acme, WY
All production dedicated to 12 MW Acme Plant, which is scheduled to shut down in 1976-77.

WESTERN FUEL ASSOCIATION
(Joint venture of Tri-State Generation and Transmission Association, Basin Electric Power Cooperative, and Cajun Electric Power Cooperatives)
Ken Holm, General Manager
1019 19th Street, NW
Washington, D.C. 20036
or
Lloyd Ernst, Regional Manager
1810 Capitol Avenue
Cheyenne, WY 82002
(307) 634-7955

(Wyodak Resources Corp. cont.)

WYODAK RESOURCES DEVELOPMENT CORPORATION
(Subsidiary of Black Hills Power & Light Company)
J. B. French, President
Neil Simpson, Vice President
Harold T. Ross, Vice President
Box 1951
Rapid City, SD 57701
(605) 342-3200

Federal coal leases: 4 leases totaling 1,920 acres (Campbell County)
State coal leases: None

Wyodak North & South
(strip)

Wilford J. Westre, General Manager
P.O. Box 149
Gillette, WY 82716
(307) 682-3410

Campbell Co.: east of Gillette T.50N., R.7W., Section 28
Coal field: Gillette
Coal name: WyodakAnderson
Rank: Subbituminous
Coal thickness: 80-110 ft.
Overburden: 20-110 ft.
Mining method: Scraper-front end loader
Opened: 1925
1975 production: 786,672 tons
Est. 1976 production: 780,000 tons
Est. 1980 production: 500,000 tons
Employees, 1975: 150
Employees, 1980: 150
Unit trains: No

(Wyodak Contracts
Black Hills Power & Light Co.
Dedicated to the following power plants:
11.5 MW Kirk Plant, Lead, SD 120,000 tpy
22.0 MW Ben French Plant, Rapid City, SD 165,000 tpy
77.7 MW Neil Simpson Plant, Wyodak, WY 198,000 tpy
44.5 MW Oahe Plant, Oahe, WY 215,000 tpy

Pacific Power & Light Co. and Black Hills Power & Light Co.
Wyodak, WY
Contract for up to 1.5 mtpy by 1977 and 2 mtpy in 1982; for new 990 MW Wyodak Plant now under construction (1st 330 MW unit to be completed in 1977).

Est. 1980 production based on these contracts is 5 mgy tons.

WYTANA, INC.
(Subsidiary of Peter Kiewit Sons', Inc.)
P.O. Box 774
Sheridan, WY 82801
(See Black Butte Coal Company)
COKE PLANTS

COLUMBINE MINING COMPANY

(Affiliate of Midcontinent Coal and Coke Company)

J. A. Reeves, President
P. O. Box 156
Carbondale, CO 81623

Carbon Plant
P. O. Box Quality
Rock Springs, WY 82901

Sweetwater Co.; south of Rock Springs
T.18N., R.165W., Section 14
(Makes a chemical grade synthetic coke for Monsanto's phosphorus plant in Soda Springs, ID; process is using bituminous coal, but works on other ranks as well.)

FMC CORPORATION

Fritz von Bergen, Director-Coke
Chemical Group Headquarters
2000 Market Street
Philadelphia, PA 19101
(215) 299-6000

Experimental Process Coke Plant

J. W. Coyle, Resident Manager
Box 451
Kemmerer, WY 82110

Lincoln Co.; near Kemmerer, WY
T.20N., R.117W., Section 12
(Makes a chemical and metallurgical grade coke from subbituminous coal.)
IN-SITU EXPERIMENTS

LARAMIE ENERGY RESEARCH CENTER (LERC)

Charles H. Brandon, Project Manager
U. S. Energy Research & Development Administration
P. O. Box 3195
University Station
Laramie, WY 82071
(307) 742-2115

Carbon Co.: Hanna, WY
T.22N., R.81W., Section 29 (Hanna site)
(LERC has been conducting experiments since 1972; product gas has not only been collected and analyzed; but some control of the volume, heat value, and quality has been attained.)

LAWRENCE LIVERMORE LABORATORIES

Douglas R. Stephens, Project Director
Inorganic Materials Division
Chemistry Department
P. O. Box 800
Livermore, CA 94550
(415) 447-1100

Campbell Co.: south of Gillette
T.47N., R.72W., Section 7 (Hoe Creek site)
(LLL started experimentation in 1975; to date they have done some drilling and explosive fracturing of the coal; they haven't ignited the coal yet.)
PLANNED TRANSPORTATION SYSTEMS

BURLINGTON NORTHERN, INC.
(Joint venture with Chicago and North Western Transportation Co.)
N. M. Lorentzen, President Transportation Div.
176 E. Fifth Street
St. Paul, Minnesota 55101
(612) 298-2121

Proposed Railroad

CHICAGO AND NORTH WESTERN TRANSPORTATION COMPANY
(See Burlington Northern, Inc.)
R. A. Sharp, Asst. Vice President Marketing
400 W. Madison Street
Chicago, IL 60606
(312) 454-6000

ENERGY TRANSPORTATION SYSTEMS, INC.
(Joint venture of Peabody Coal Co., Bechtel, Inc., Lehman Brothers, and Kansas-Nebraska Natural Gas Co.)
Frank Odell, Manager
Box 7933
Casper, WY 82601
(307) 265-1800

Proposed Coal Slurry Pipeline
Size of pipe: 38 inch
Length: 1,036 miles
Capacity: 25 mtpy
Location: Campbell, Niobrara, Converse, and Goshen Counties, WY
Destination: Arkansas Power & Light Co., White Bluffs, AR and City of Wichita, Kansas (8 mtpy)
Water requirements: 15,000-20,000 acre ft./yr.
Status: Approved by Wyoming legislature, but unable to get right-of-way through Nebraska or Kansas.

GULF INTERSTATE ENGINEERING
(Joint venture with Northwest Pipeline, Salt Lake City, UT)
John G. McMillan, President
Harry Eaton, Vice President
Houston, TX

Proposed Coal Slurry Pipeline
Size of pipe: 24-30 inches
Length: 800-1100 miles
Capacity: 10 mtpy
Location: Southwestern Wyoming
Destination: Washington, Oregon, Idaho, and northern California
Water requirements: 7,500 acre ft./yr.
Status: Studying feasibility for the 1980's

UNION PACIFIC RAILROAD CO.
N. R. Lins, Market Manager - Energy Resources
1416 Dodge Street
Omaha, NE 68179
(402) 261-5022
Mainteinance of main line and construction of spur lines to numerous coal mines in southern Wyoming.
# Active & Proposed Mines

## Kemmerer Coal Field
- Kemmerer's Etkol (S)\(^1\)
- Kemmerer's Sorensen (S)

## Green River Region
- Bridger's Jim Bridger (S)
- Columbine's Rainbow No. 8 (D)\(^2\)
- Northwestern Resources' Grass Creek (S)

## Bighorn Basin
- FMC-1976? (S)
- kemmerer's North Block-1979 (S)
- Rocky Mountain's Twin Creek-1977 (S)\(^3\)
- Rocky Mountain's South Hoystock Project-1979 (S)\(^3\)

## Powder River Basin
- Amax's Belle Ayr South (S)
- Big Horn's Big Horn No. 1 (S)
- PP & L’s Dave Johnston (S)
- Welch (S)
- Myodak's South Pit (S)

## Hanna Coal Field
- Arch's Seminole No. 1 (S)
- Arch's Seminole No. 2 (S)
- Energy's Rimrock pits (S)
- Energy's Vanguard No. 2 (D)
- Energy's Vanguard No. 3 (D)
- Medicine Bow Strip (S)
- Rosebud Fizz (S)

## Proposed New Coal Mines

<table>
<thead>
<tr>
<th>Field</th>
<th>Active Coal Mines in 1975</th>
<th>Proposed New Coal Mines</th>
</tr>
</thead>
</table>
| Kemmerer Coal Field    | FMC-1976? (S)\(^3\)  
                       | Kemmerer's North Block-1979 (S)\(^3\)                                                     | Arch's China Butte-1979 (S)\(^3\)  
| Green River Region     | Rocky Mountain's Twin Creek-1977 (S)\(^3\)                                               | Black Butte-1978 (S)\(^3\)  
|                        | Rocky Mountain's South Hoystock Project-1979 (S)\(^3\)                                   | Energy's Red Rim-1979 (S)\(^3\)  
| Bighorn Basin          |                                                                                          | Rocky Mountain's Atlantic Rim-1979 (S)\(^3\)  
|                        |                                                                                          | Rocky Mountain's Creston-Cherokee-7 (S)\(^3\)  
|                        |                                                                                          | Rocky Mountain's Leucite Hills-1981 (S)\(^3\)  
|                        |                                                                                          | Rocky Mountain's Red Desert-7 (S)\(^3\)  
|                        |                                                                                          | Rocky Mountain's Salt Wells-1982 (S)\(^3\)  
|                        |                                                                                          | Rocky Mountain's Winton-7 (D)\(^3\)  
|                        |                                                                                          | Stansbury-1976-1978 (D)\(^3\)  
|                        |                                                                                          | Sunoco's Long Canyon-1979 (D)\(^3\)  
| Powder River Basin     | Amax's Belle Ayr South (S)\(^3\)                                                         | Arch's Seminole No. 1 (S)  
|                        | Amax's Belle Ayr North-1977 (S)\(^3\)                                                   | Arch's Seminole No. 2 (S)  
|                        | ARCO's Coal Creek-1979? (S)\(^3\)                                                       | Energy's Rimrock pits (S)  
|                        | Carter's North Rawhide-1976? (S)\(^3\)                                                   | Energy's Vanguard No. 2 (D)  
|                        | Carter's Coballo-1976? (S)\(^3\)                                                       | Energy's Vanguard No. 3 (D)  
|                        | El Paso's Thunderbird-1979? (S)\(^3\)                                                   | Medicine Bow Strip (S)  
|                        | Falcon-1977? (S)\(^3\)                                                                  | Rosebud Fizz (S)  
|                        | Kerr-McGee's Jacobs Ranch-1977 (S)                                                       | Rocky Mountain's Hanna-1978 (D)  
|                        | Kerr-McGee's East Gillette No. 16-1978? (S)                                             | Rocky Mountain's Carbon Basin-7 (S or D)\(^3\)  
|                        | Kerr-McGee's East Gillette-1979? (S)                                                     |  
|                        | Mobil's Unnamed mine-1978-1979? (S)                                                     |  
|                        | Peabody-1980's (S)\(^3\)                                                                |  
|                        | Peabody-1980's (S)\(^3\)                                                                |  
|                        | Public Service Oklahoma's PSO No. 1-1976? (S)                                            |  
|                        | Rochelle-1978 (S)\(^3\)                                                                  |  
|                        | Shell's Buckskin-1979 (S)\(^3\)                                                       |  
|                        | Sunoco's Cordero-1977 (S)\(^3\)                                                        |  
|                        | Texaco-1977? (S)\(^3\)                                                                  |  

\(^1(S)\) means strip mine  
\(^2(D)\) means deep mine  
\(^3\) Mine not in forecast based on announced contracts
Coal Production Forecast

Annual Wyoming Coal Production (In Millions of Tons)
With Estimates Based on Announced Contracts Forecast to 1985

<table>
<thead>
<tr>
<th></th>
<th>Powder River</th>
<th>Hanna Basin</th>
<th>Kemmerer Area</th>
<th>Green River Region</th>
<th>Bighorn Basin</th>
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1 Includes only one coal gasification plant (Panhandle Eastern) by 1985

Annual Wyoming Coal Production (In Millions of Tons)
With Highest Possible Estimates Forecast to 1985

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<tr>
<th></th>
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</tbody>
</table>

2 Includes seven coal gasification plants by 1985
Additional copies of this circular may be obtained for $1.00 from:

The Geological Survey of Wyoming
P. O. Box 3008, University Station
Laramie, Wyoming 82071

ABOUT THE COVER: An electric shovel loads from the Arch Mineral Corp. Seminoe #1 mine in the Hanna Basin. The mining is from the steeply dipping Bed #24. The bed measures 18 feet in the mine.