

# GUIDE TO COAL MINES

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*Served by  
Burlington Northern and Santa Fe Railway*

The information included in this *Guide to Coal Mines Served by Burlington Northern and Santa Fe Railway* was provided by the coal producing companies. It includes general information, from coal specifications to loading characteristics, about the coal and mine facilities. The producers who contributed information to this Guide have included the name, address and phone number of their primary marketing contact. Requests for further information regarding these mines should be addressed to the appropriate producer marketing contact.

Produced and Published by

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## BNSF AND COAL

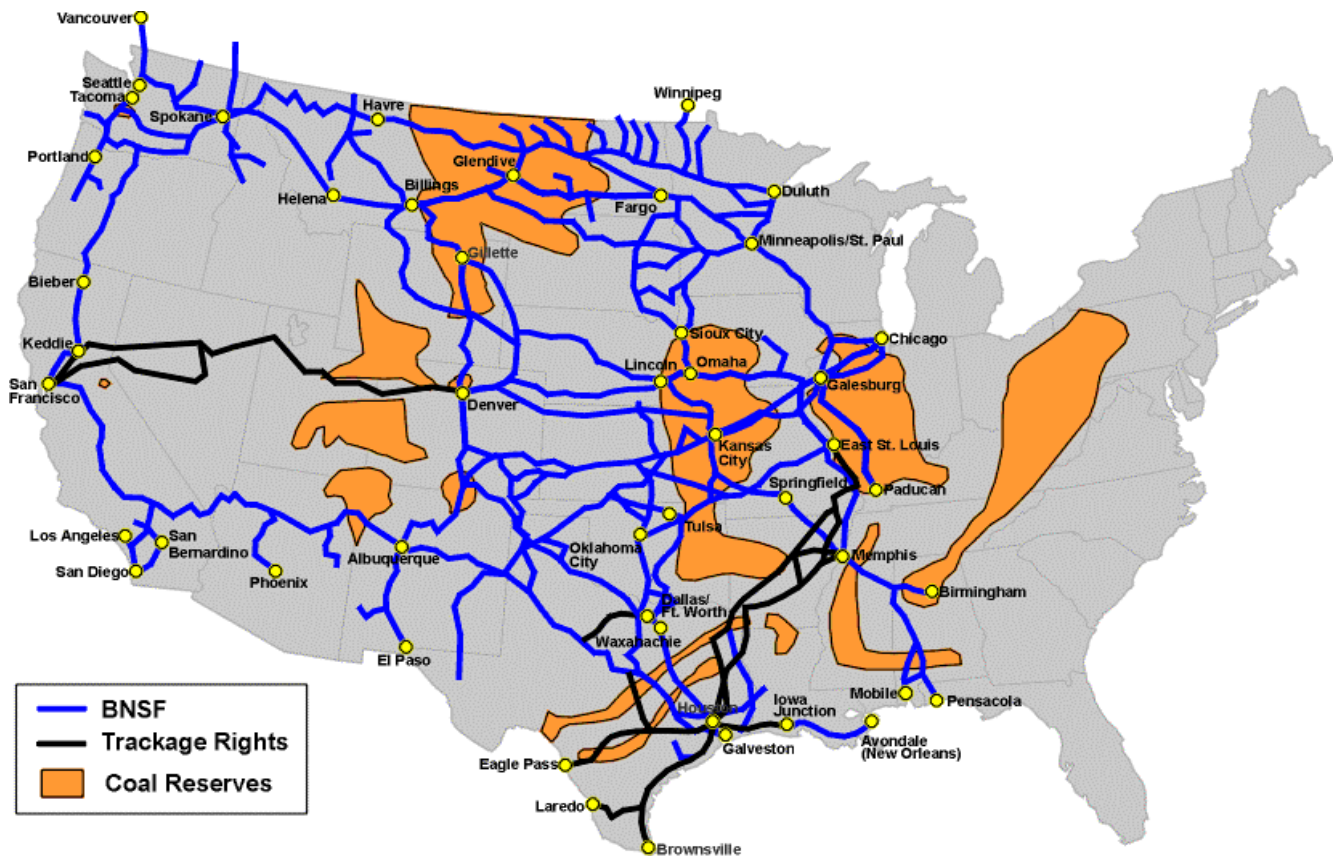
The United States has the largest coal reserves in the world, which serve as a reliable fuel source for steam-generated electricity. As a consequence, coal is now used to supply more than half of the electricity of the United States. The abundant supply of coal has made it the most economical fuel source for steam-generated electricity. Coal is the lowest cost way to produce steam-generated electricity in the United States.

The Burlington Northern and Santa Fe Railway Company (BNSF) serves 29 states and two Canadian provinces. It consists of 35,000 route miles of track. BNSF serves ports in the Pacific Northwest, Los Angeles/Long Beach and San Francisco Bay areas, on the Gulf Coast and the Great Lakes.

BNSF is the world's largest transporter of low-sulfur coal (typically 0.3-0.5% sulfur content). BNSF serves over 40 mines in eight states, and other mines by interchange with other railroads. About two-thirds of the coal BNSF hauls each year is delivered to final destination by a service partner, either a water carrier or another railroad.

In 2000, BNSF moved approximately 230 million tons of coal to 60 utilities. BNSF-hauled coal has been burned by electric utilities in 28 states, Canada, Mexico, Japan, Taiwan and Europe.

### MAJOR COAL RESERVES & BNSF SYSTEM



**BNSF COAL MARKETING ORGANIZATION**

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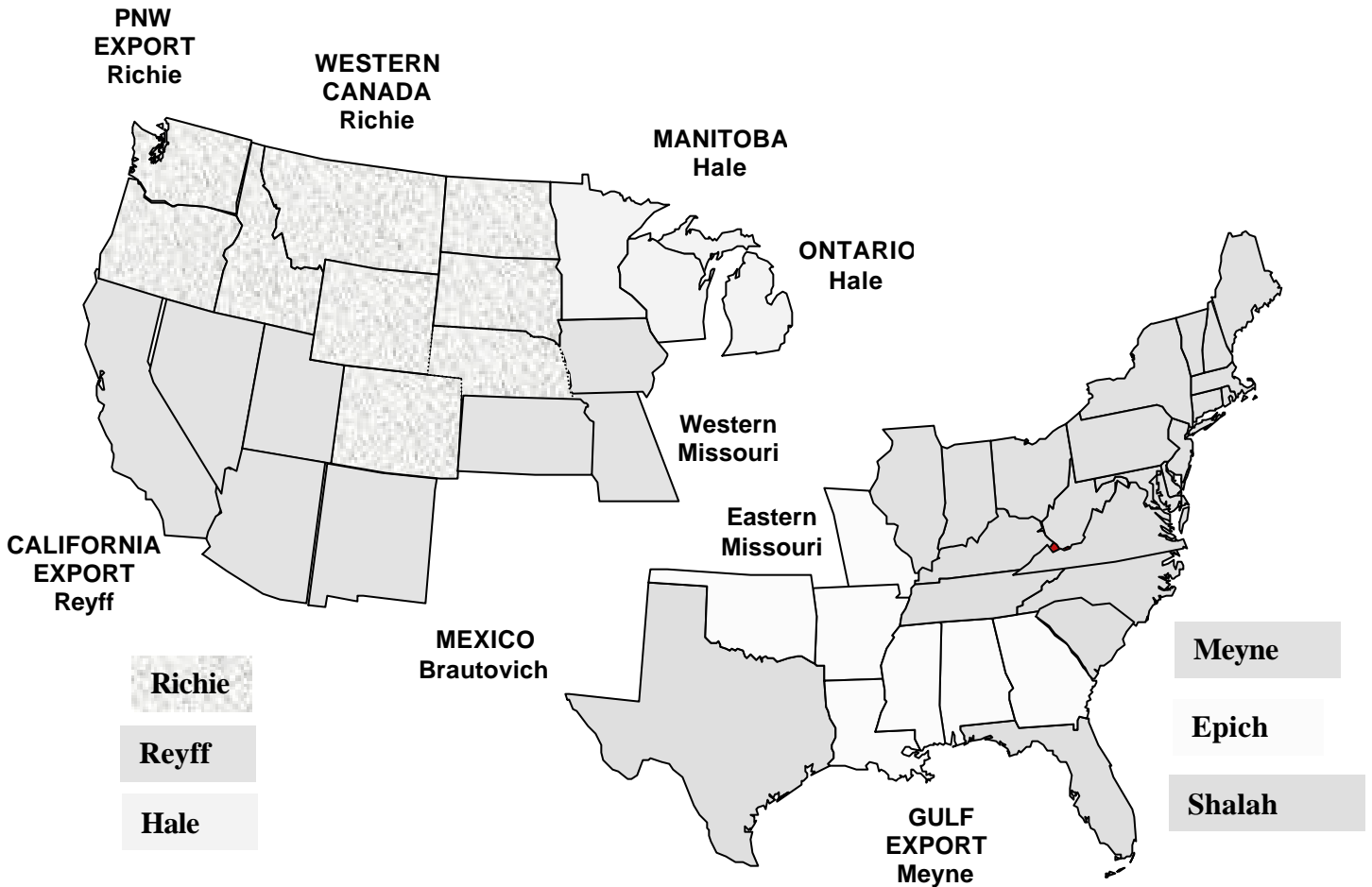
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Eastern U.S.

Larry C. Meyne [larry.meyne@bnsf.com](mailto:larry.meyne@bnsf.com) (817) 352-6244 northeast  
 Thomas L. Epich [thomas.epich@bnsf.com](mailto:thomas.epich@bnsf.com) (817) 352-6236 south central

Note: Territories are defined on a destination basis.



Exceptions to

Eastern Group:

All Central and Southwest owned Utilities - - Meyne  
 All Eastern industrial accounts - - Epich  
 All Southern Company owned Utilities - - - - Epich  
 Texas TUCO/SPS accounts - - - - - Epich  
 Louisiana Generating - - - - - Shalah

Exceptions to Western Group:

Iowa: Interstate Energy and IES Utilities- - Hale

## MONTANA / WYOMING

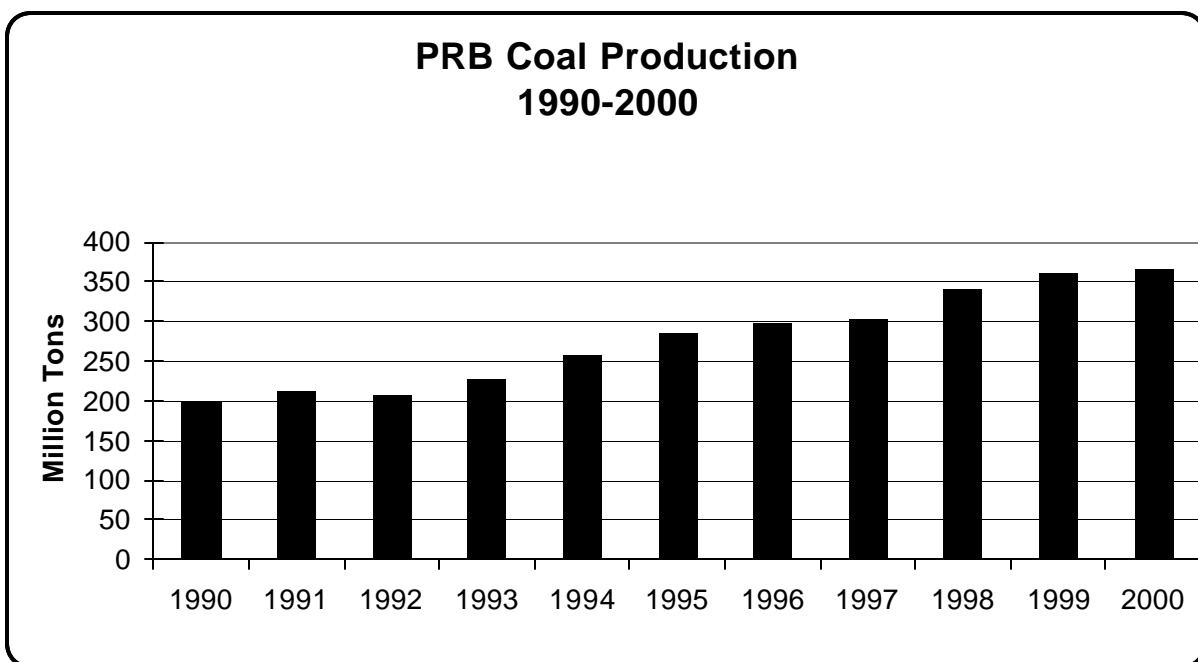
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## MONTANA / WYOMING - POWDER RIVER BASIN

The Clean Air Act and utility deregulation are making dramatic impacts on coal-fired electricity. Utilities burning high-sulfur coal must decide whether to install expensive scrubbers, purchase emission credits or switch to cleaner-burning low-sulfur coal to comply with the Clean Air Act's emissions standards.

The Powder River Basin of Montana and Wyoming (PRB) has the largest reserves of cleaner-burning low-sulfur coal in the United States (76%). In fact, eight of the 10 largest mines in the United States are in the PRB. Wyoming ranks first in coal production; Montana is eighth. PRB coal production has grown rapidly, and the upcoming implementation of Phase II of the Clean Air Act is expected to cause another rapid expansion of PRB production.

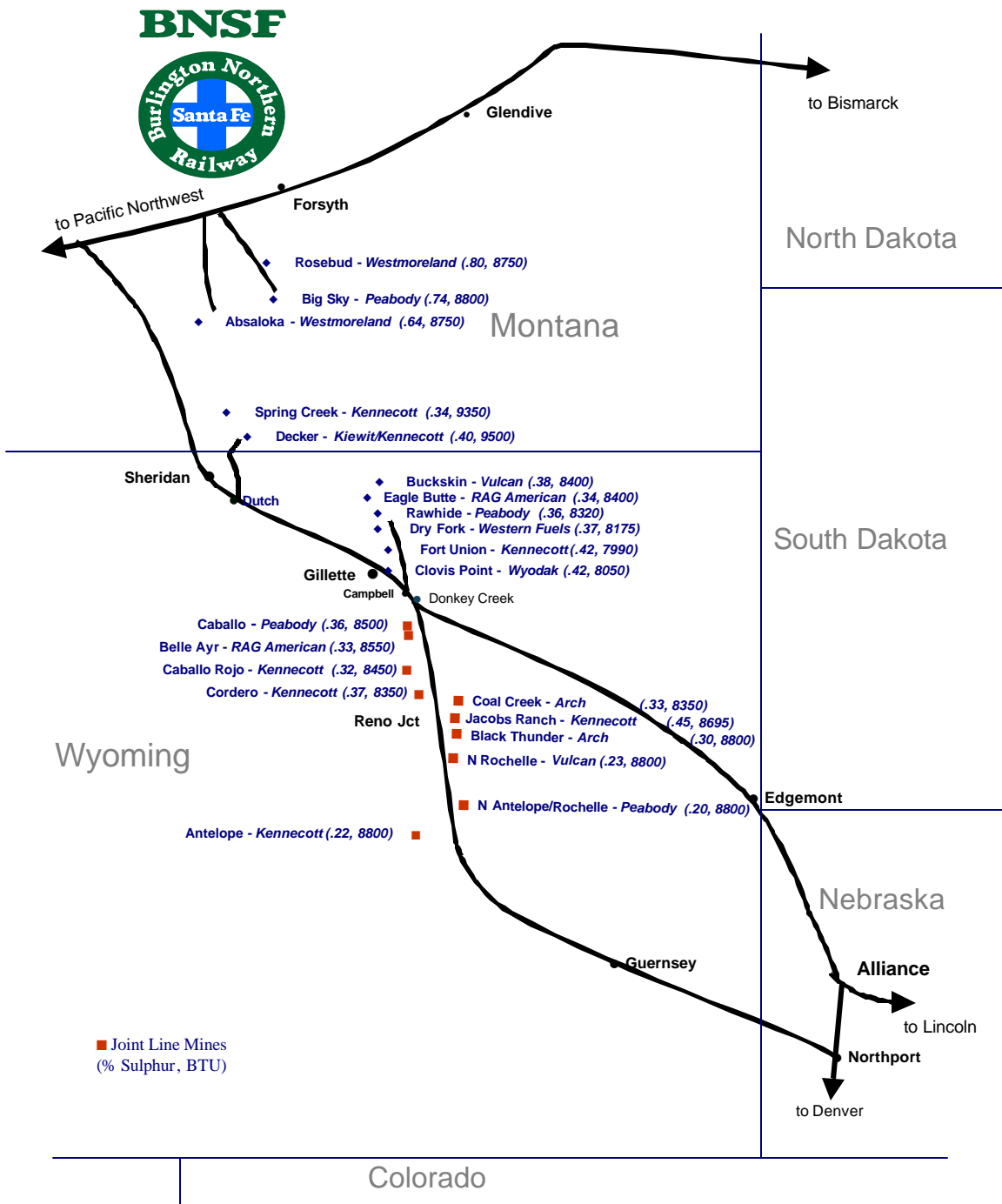


Of the 15 steam electric plants with the lowest cost per mega-watt-hour in the United States, 11 burn PRB coal. Western U.S. coal is even more economical despite being transported farther than Interior or Appalachian coal. It has a lower average delivered fuel cost per MMBTU than Interior or Appalachian coal with nearly 70 to 80 percent of the Btu value. Low-sulfur PRB coal does not require expensive scrubbers to comply with the Clean Air Act. PRB coal has one-half to one-sixth the sulfur content of most other coal sources.

The Burlington Northern and Santa Fe Railway Company started shipping coal from the Powder River Basin almost 30 years ago. During that time, BNSF has shipped over 3.0 billion tons of PRB coal. PRB coal accounts for over 85 percent of the coal trains originated by BNSF.



MONTANA / WYOMING - POWDER RIVER BASIN



**Kennecott  
SPRING CREEK MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Nerco Jct., Montana (Big Horn County) 30 miles northeast of Sheridan, Wyoming	
<b>Marketing Contact</b>	Kennecott Energy Company Marketing Department 505 South Gillette Avenue, Caller Box 3009 Gillette, WY 82717-3009 Phone: (307) 687-6000 / Fax: (307) 687-6009 E-mail hullj@kenergy.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	38.25%
	Volatile Matter	32.50%
	Moisture	25.00%
	Ash	4.25%
	Sodium as % of Ash	7.50%
	Sulfur	0.34%
	Btu/lb.	9,350
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2076°F
	Fluid	2166°F
<b>Recoverable Reserves</b>	170 million tons	
<b>Annual Production</b>	Permitted for 15 million tons/year 1999 - 11.0 million tons 2000 - 11.3 million tons	
<b>Storage Capacity</b>	35,000 tons (slot storage)	
<b>Storage Recharge Rate</b>	3,000 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading with belt scale	
<b>Loading Rate</b>	4,100 tons per hour	
<b>Track Configuration</b>	Loop track holds two unit trains on site	

**Kiewit/Kennecott  
DECKER MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Decker, Montana (Big Horn County) 23 miles northeast of Sheridan, Wyoming	
<b>Marketing Contact</b>	Linden S. Swensen, Vice President - Marketing Kiewit Mining Group Inc. Kiewit Plaza Omaha, Nebraska 68131 Phone: (402) 271-2822 / Fax: (402) 271-2908	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	40.00%
	Volatile Matter	32.00%
	Moisture	23.80%
	Ash	4.20%
	Sodium as % of Ash	1.00-8.00%
	Sulfur	0.40%
	Btu/lb.	9,500
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2050°F
	Fluid	2150°F
<b>Recoverable Reserves</b>	200 million tons	
<b>Annual Production</b>	Permitted for 14 million tons/year 1999 - 10.5 million tons 2000 - 10.9 million tons	
<b>Storage Capacity</b>	East: 122,000 tons total (silo and stockpile) West: 87,000 tons total (silo and stockpile)	
<b>Storage Recharge Rate</b>	3,500 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading with belt scale	
<b>Loading Rate</b>	5,500 tons per hour	
<b>Track Configuration</b>	East: Loop track holds one unit train on site West: Loop track with siding holds two unit trains on site	
<b>Information</b>	Decker Mine consists of East Decker and West Decker, each having crushing, storage and loadout facilities.	

**Peabody Holding Co., Inc./Powder River Coal Company**  
**BIG SKY MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Colstrip, Montana (Rosebud County) 40 miles southwest of Forsyth, Montana	
<b>Marketing Contact</b>	James C. Campbell, Sr. VP Sales and Marketing Peabody COALSALES Co. 701 Market Street St. Louis, MO 63101 Phone: (314) 342-7520 / Fax: (314) 342-7529 E-mail Jcampbel@peabodygroup.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	37.60%
	Volatile Matter	27.70%
	Moisture	26.30%
	Ash	8.40%
	Sodium as % of Ash	0.70%
	Sulfur	0.74%
	Btu/lb.	8,800
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2165°F
	Fluid	2290°F
<b>Recoverable Reserves</b>	19 million tons	
<b>Annual Production</b>	Permitted for 5 million tons/year 1999 - 3.0 million tons 2000 - 1.4 million tons	
<b>Storage Capacity</b>	29,000 tons (slot storage)	
<b>Storage Recharge Rate</b>	1,500 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading coupled with weigh-in-motion track scale	
<b>Loading Rate</b>	4,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**Westmoreland  
ABSALOKA MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Kuehn, Montana (Big Horn County) 60 miles southwest of Forsyth, Montana	
<b>Marketing Contact</b>	Dave Simpson Westmoreland Resources, Inc. P. O. Box 449 Hardin, Montana 59034 Phone: (406) 342-5241 / Fax: (406) 342-5401 E-mail dws@mcn.net	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	36.27%
	Volatile Matter	30.23%
	Moisture	24.50%
	Ash	9.00%
	Sodium as % of Ash	2.00%
	Sulfur	0.64%
	Btu/lb.	8,750
	Size	3" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2130°F
	Fluid	2215°F
<b>Recoverable Reserves</b>	70 million tons	
<b>Annual Production</b>	Permitted for 7 million tons/year 1999 - 5.5 million tons 2000 - 4.9 million tons	
<b>Storage Capacity</b>	44,000 tons (trough-type storage barn)	
<b>Storage Recharge Rate</b>	18,000 tons per day	
<b>Loading &amp; Weighing</b>	250-ton surge bin with belt scale	
<b>Loading Rate</b>	4,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**Westmoreland  
ROSEBUD MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Colstrip, Montana (Rosebud County) 35 miles southwest of Forsyth, Montana	
<b>Marketing Contact</b>	James Kelly, Vice President, Westmoreland Coal Sales Ed DeMeter, Vice President, Westmoreland Coal Sales 2 North Cascade Avenue, 14 <sup>th</sup> Floor Colorado Springs, Colorado 80903 Phone: (719) 442-2600 / Fax: (719) 448-5824 E-mail Jim.Kelly@westmoreland.com E-mail Ed.Demeter@westmoreland.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	38.33%
	Volatile Matter	27.72%
	Moisture	25.50%
	Ash	8.45%
	Sodium as % of Ash	0.32%
	Sulfur	0.80%
	Btu/lb.	8,750
	Size	3" x 0", 1" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2200°F
	Fluid	2330°F
<b>Recoverable Reserves</b>	573 million tons	
<b>Annual Production</b>	Permitted for 18 million tons 1999 - 10.6 million tons 2000 - 10.4 million tons	
<b>Storage Capacity</b>	90,000 tons	
<b>Storage Recharge Rate</b>	60,000 tons per day	
<b>Loading &amp; Weighing</b>	Rapid-discharge loadout with belt scale	
<b>Loading Rate</b>	3,750 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	
<b>Information</b>	Rosebud Mine sells most of its production to The Colstrip Station, with the remaining tonnage sold to outside utility and industrial markets.	

**ARCH  
BLACK THUNDER MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Thunder Jct., Wyoming (Campbell County) 45 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	<p>John Eaves, Vice President, Marketing &amp; Transportation Arch Coal Sales Company City Place One, Suite 300 St. Louis, MO 63141 Phone: (314) 994-2835 / Fax: (314) 994-2719 E-mail jeaves@archcoal.com</p> <p>Jerry Daseler, Director, Marketing Services Arch Coal Sales Company City Place One, Suite 300 St. Louis, MO 63141 Phone: (314) 994-2857 / Fax: (314) 994-2719 E-mail jdaseler@archcoal.com</p>	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	36.16%
	Volatile Matter	31.83%
	Moisture	27.00%
	Ash	5.50%
	Sodium as % of Ash	1.30%
	Sulfur	0.30%
	Btu/lb.	8,800
	Size	2" x 0" or less
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2125°F
	Fluid	2195°F
<b>Recoverable Reserves</b>	1.10 billion tons	
<b>Annual Production</b>	Permitted for 100 million tons 1999 - 48.7 million tons 2000 - 60.1 million tons	
<b>Storage Capacity</b>	126,000 tons total (slot storage and two silos)	
<b>Storage Recharge Rate</b>	10,000 tons per hour	
<b>Loading &amp; Weighing</b>	Two batch weigh bins coupled with weigh-in-motion track scales; two trains can be loaded simultaneously	
<b>Loading Rate</b>	14,000 tons per hour (10,000 tons per hour on inside loop and 4,000 tons per hour on outside loop)	
<b>Track Configuration</b>	Two loop tracks holding four unit trains on site	

**ARCH  
COAL CREEK MINE (inactive)**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Coal Creek Jct., Wyoming (Campbell County) 25 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	<p>John Eaves, Vice President, Marketing &amp; Transportation Arch Coal Sales Company City Place One, Suite 300 St. Louis, MO 63141 Phone: (314) 994-2835 / Fax: (314) 994-2719 E-mail jeaves@archcoal.com</p> <p>Jerry Daseler, Director, Marketing Services Arch Coal Sales Company City Place One, Suite 300 St. Louis, MO 63141 Phone: (314) 994-2857 / Fax: (314) 994-2719 E-mail jdaseler@archcoal.com</p>	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	33.85%
	Volatile Matter	30.50%
	Moisture	30.50%
	Ash	5.70%
	Sodium as % of Ash	1.30%
	Sulfur	0.33%
	Btu/lb.	8,350
	Size	2" x 0" or less
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2085°F
	Fluid	2200°F
<b>Recoverable Reserves</b>	270 million tons	
<b>Annual Production</b>	Permitted for 18 million tons/year 1999 - 11.2 million tons 2000 - 4.2 million tons	
<b>Storage Capacity</b>	20,000 tons total (two silos)	
<b>Storage Recharge Rate</b>	2,000 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading coupled with weigh-in-motion track scales (Batch weigh bin will be installed in 1997)	
<b>Loading Rate</b>	6,000 tons per hour	
<b>Track Configuration</b>	Loop track holds two unit trains on site	



**RAG American Coal Company**  
**BELLE AYR MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Belle Ayr, Wyoming (Campbell County) 18 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Larry M. Deal, Vice President Sales and Market Development (west) RAG Coal Sales of America, Inc. 94 Inverness Terrace East, Suite 120 Englewood, Colorado 80112 Phone: (303) 749-8430 / Fax: (303) 749-8449 E-mail Ideal@rag-american.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	34.50%
	Volatile Matter	31.10%
	Moisture	29.90%
	Ash	4.50%
	Sodium as % of Ash	1.90%
	Sulfur	0.33%
	Btu/lb.	8,550
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2155°F
	Fluid	2180°F
<b>Recoverable Reserves</b>	406 million tons	
<b>Annual Production</b>	Permitted for 45 million tons/year 1999 - 17.9 million tons 2000 - 15.0 million tons	
<b>Storage Capacity</b>	48,000 tons total (four silos)	
<b>Storage Recharge Rate</b>	6,000 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin coupled with weigh-in-motion track scales; flood-loading backup	
<b>Loading Rate</b>	7,000 tons per hour	
<b>Track Configuration</b>	Loop track holds three unit trains on site	

**RAG American Coal Company**  
**EAGLE BUTTE MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Eagle Jct., Wyoming (Campbell County) 8 miles northeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Larry M. Deal, Vice President Sales and Market Development (west) RAG Coal Sales of America, Inc. 94 Inverness Terrace East, Suite 120 Englewood, Colorado 80112 Phone: (303) 749-8430 / Fax: (303) 749-8449 E-mail Ideal@rag-american.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	33.40%
	Volatile Matter	31.20%
	Moisture	30.60%
	Ash	4.50%
	Sodium as % of Ash	1.90%
	Sulfur	0.34%
	Btu/lb.	8,400
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2225°F
	Fluid	2250°F
<b>Recoverable Reserves</b>	471 million tons	
<b>Annual Production</b>	Permitted for 35 million tons/year 1999 - 17.4 million tons 2000 - 18.6 million tons	
<b>Storage Capacity</b>	48,000 tons total (four silos)	
<b>Storage Recharge Rate</b>	8.000 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin coupled with weigh-in-motion track scales; flood-loading backup	
<b>Loading Rate</b>	7,000 tons per hour	
<b>Track Configuration</b>	Loop track holds three unit trains on site	

**Western Fuels - Wyoming, Inc.**  
**DRY FORK MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Dry Fork Jct., Wyoming (Campbell County) 25 miles northeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Bob Norrgard Western Fuels - Wyoming, Inc. P. O. Box 33424 Denver, Colorado 80233 Phone: (303) 450-9976 / Fax: (303) 450-1042 E-mail bob@wfadenver.org	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	34.45%
	Volatile Matter	29.50%
	Moisture	31.80%
	Ash	3.8 -5.1%
	Sodium as % of Ash	1.50%
	Sulfur	.21 - .42%
	Btu/lb.	8,050 - 8200
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2268°F
	Fluid	2348°F
<b>Recoverable Reserves</b>	330 million tons	
<b>Annual Production</b>	Permitted for 15 million tons/year 1999 - 1.2 million tons 2000 - 2.3 million tons	
<b>Storage Capacity</b>	18,600 tons total (three silos)	
<b>Storage Recharge Rate</b>	2,400 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin coupled with weigh-in-motion track scale	
<b>Loading Rate</b>	6,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**Kennecott  
ANTELOPE MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Converse Jct., Wyoming (Converse County) 70 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Kennecott Energy Company Marketing Department 505 South Gillette Avenue, Caller Box 3009 Gillette, WY 82717-3009 Phone: (307) 687-6000 / Fax: (307) 687-6009 E-mail hullj@kenergy.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	36.50%
	Volatile Matter	31.75%
	Moisture	26.50%
	Ash	5.25%
	Sodium as % of Ash	1.41%
	Sulfur	0.22%
	Btu/lb.	8,800
	Size	3" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2130°F
	Fluid	2185°F
<b>Recoverable Reserves</b>	237 million tons	
<b>Annual Production</b>	Permitted for 30 million tons/year 1999 - 22.7 million tons 2000 - 23.0 million tons	
<b>Storage Capacity</b>	27,500 tons total (two silos)	
<b>Storage Recharge Rate</b>	2,300 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin coupled with weigh-in-motion track scale	
<b>Loading Rate</b>	4,000 tons per hour	
<b>Track Configuration</b>	Loop track holds two unit trains on site	

**Kennecott  
CABALLO ROJO MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Rojo Jct., Wyoming (Campbell County) 22 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Kennecott Energy Company Marketing Department 505 South Gillette Avenue, Caller Box 3009 Gillette, WY 82717-3009 Phone: (307) 687-6000 / Fax: (307) 687-6009 E-mail hullj@kenergy.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	34.13%
	Volatile Matter	30.57%
	Moisture	30.15%
	Ash	5.15%
	Sodium As % Of Ash	1.60%
	Sulfur	0.32%
	Btu/lb.	8,450
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2056°F
	Fluid	2142°F
<b>Recoverable Reserves</b>	355 million tons	
<b>Annual Production</b>	Permitted for 30 million tons/year 1999 - 20.5 million tons 2000 - 17.6 million tons	
<b>Storage Capacity</b>	28,000 tons total (two silos)	
<b>Storage Recharge Rate</b>	4,000 tons per hour	
<b>Loading &amp; Weighing</b>	Loading and weighing systems are batch bin systems; two trains can be loaded simultaneously	
<b>Loading Rate</b>	8,000 tons per hour (4,000 tons per hour per loadout)	
<b>Track Configuration</b>	Two loop tracks holding four unit trains on site	

**Kennecott  
CORDERO MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Cordero, Wyoming (Campbell County) 30 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Kennecott Energy Company Marketing Department 505 South Gillette Avenue, Caller Box 3009 Gillette, WY 82717-3009 Phone: (307) 687-6000 / Fax: (307) 687-6009 E-mail hullj@kenergy.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	32.06%
	Volatile Matter	31.99%
	Moisture	30.25%
	Ash	5.70%
	Sodium as % of Ash	1.31%
	Sulfur	0.37%
	Btu/lb.	8,350
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2120°F
	Fluid	2170°F
<b>Recoverable Reserves</b>	350 million tons	
<b>Annual Production</b>	Permitted for 24 million tons/year 1999 - 25.2 million tons 2000 - 21.1 million tons	
<b>Storage Capacity</b>	144,000 tons total (slot storage and four silos)	
<b>Storage Recharge Rate</b>	5,000 tons per hour	
<b>Loading &amp; Weighing</b>	Loading and weighing systems are batch bin systems; two trains can be loaded simultaneously	
<b>Loading Rate</b>	20,000 tons per hour (10,000 tons per hour per loop)	
<b>Track Configuration</b>	Two loop tracks holding four unit trains on site	

**Kennecott  
FORT UNION MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Union Jct., Wyoming (Campbell County) 10 miles northeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Kennecott Energy Company Marketing Department 505 South Gillette Avenue, Caller Box 3009 Gillette, WY 82717-3009 Phone: (307) 687-6000 / Fax: (307) 687-6009 E-mail hullj@kenenergy.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	32.20%
	Volatile Matter	30.10%
	Moisture	31.00%
	Ash	5.30%
	Sodium as % of Ash	1.70%
	Sulfur	0.43%
	Btu/lb.	8,150
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2110°F
	Fluid	2160°F
<b>Annual Production</b>	Permitted for 8.2 million tons/year 1999 - no commercial production 2000 - no commercial production	
<b>Storage Capacity</b>	12,500 tons total (two silos)	
<b>Storage Recharge Rate</b>	500 tons per hour	
<b>Loading &amp; Weighing</b>	Surge/loading hopper loadout with belt scale	
<b>Loading Rate</b>	3,500 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**Kennecott  
JACOBS RANCH MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Jacobs Jct., Wyoming (Campbell County) 50 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Kennecott Energy Company Marketing Department 505 South Gillette Avenue, Caller Box 3009 Gillette, WY 82717-3009 Phone: (307) 687-6000 / Fax: (307) 687-6009 E-mail hullj@kenenergy.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	33.90%
	Volatile Matter	32.66%
	Moisture	27.88%
	Ash	5.56%
	Sodium as % of Ash	1.40%
	Sulfur	0.45%
	Btu/lb.	8,775
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2170°F
	Fluid	2285°F
<b>Recoverable Reserves</b>	258 million tons	
<b>Annual Production</b>	Permitted for 35 million tons/year 1999 - 29.1 million tons 2000 - 28.3 million tons	
<b>Storage Capacity</b>	105,000 tons total (seven silos)	
<b>Storage Recharge Rate</b>	6,400 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading using multiple silos, coupled with weigh-in-motion track scales and precision top-off system; two trains can be loaded simultaneously	
<b>Loading Rate</b>	12,000 tons per hour	
<b>Track Configuration</b>	Two loop tracks holding three unit trains on site	



**Peabody Holding Co., Inc./Powder River Coal Company**  
**CABALLO MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Caballo Jct., Wyoming (Campbell County) 20 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	James C. Campbell, Sr. VP Sales and Marketing Peabody COALSALES Co. 701 Market Street St. Louis, MO 63101 Phone: (314) 342-7520 / Fax: (314) 342-7529 E-mail Jcampbel@peabodygroup.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	33.60%
	Volatile Matter	31.50%
	Moisture	29.90%
	Ash	5.00%
	Sodium as % of Ash	1.60%
	Sulfur	0.36%
	Btu/lb.	8,500
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2140°F
	Fluid	2185°F
<b>Recoverable Reserves</b>	300 million tons	
<b>Annual Production</b>	Permitted for 40 million tons/year 1999 - 26.5 million tons 2000 - 25.6 million tons	
<b>Storage Capacity</b>	46,000 tons total (four silos)	
<b>Storage Recharge Rate</b>	4,500 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading coupled with weigh-in-motion track scales and precision top-off system	
<b>Loading Rate</b>	7,000 tons per hour	
<b>Track Configuration</b>	Two loop tracks holding four unit trains on site	

**Peabody Holding Co., Inc./Powder River Coal Company  
NORTH ANTELOPE / ROCHELLE COMPLEX**

<b>Type of Mine</b>	Surface - truck/shovel and dragline operation	
<b>Loading Station</b>	Nacco Jct., Wyoming (Campbell County) 60 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	James C. Campbell, Sr. VP Sales and Marketing Peabody COALSALES Co. 701 Market Street St. Louis, MO 63101 Phone: (314) 342-7520 / Fax: (314) 342-7529 E-mail Jcampbel@peabodygroup.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	36.70%
	Volatile Matter	31.50%
	Moisture	27.40%
	Ash	4.40%
	Sodium as % of Ash	1.70%
	Sulfur	0.20%
	Btu/lb.	8,800
	Size	2.5" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2140°F
	Fluid	2175°F
<b>Recoverable Reserves</b>	1,400 million tons	
<b>Annual Production</b>	Permitted for 75 million tons/year 1999 - 68.9 million tons 2000 - 70.7 million tons	
<b>Storage Capacity</b>	125,000 tons (five silos and a barn)	
<b>Storage Recharge Rate</b>	5,500 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin coupled with weigh-in-motion track scale	
<b>Loading Rate</b>	7,000 tons per hour	
<b>Track Configuration</b>	Two loops and four storage tracks plus three legs on WYE - can hold up to 12 trains on site	

**Peabody Holding Co., Inc./Powder River Coal Company  
RAWHIDE MINE (inactive)**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Rawhide Jct., Wyoming (Campbell County) 10 miles northeast of Gillette, Wyoming	
<b>Marketing Contact</b>	James C. Campbell, Sr. VP Sales and Marketing Peabody COALSALES Co. 701 Market Street St. Louis, MO 63101 Phone: (314) 342-7520 / Fax: (314) 342-7529 E-mail Jcampbel@peabodygroup.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	33.20%
	Volatile Matter	31.10%
	Moisture	30.80%
	Ash	4.90%
	Sodium as % of Ash	1.80%
	Sulfur	0.36%
	Btu/lb.	8,320
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2135°F
	Fluid	2165°F
<b>Recoverable Reserves</b>	500 million tons	
<b>Annual Production</b>	Permitted for 24 million tons/year 1999 - 0.8 million tons 2000 - Mine is not in operation	
<b>Storage Capacity</b>	68,000 tons total (six silos)	
<b>Storage Recharge Rate</b>	4,200 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading coupled with weigh-in-motion track scales and precision top-off system	
<b>Loading Rate</b>	7,000 tons per hour	
<b>Track Configuration</b>	Loop track and siding hold two unit trains on site	

**Wyodak  
At CLOVIS POINT**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Clovis Point Jct., Wyoming (Campbell County) 8 miles east of Gillette, Wyoming	
<b>Marketing Contact</b>	Jim Williams, Mine Manager Wyodak Resources Development Corp. 131-26 Hwy. 51 Gillette, Wyoming 82716 Phone: (307) 682-3410 / Fax: (307) 682-0208 E-mail Jwilliams@wyodak.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	32.00%
	Volatile Matter	32.00%
	Moisture	30.00%
	Ash	6.00%
	Sodium as % of Ash	0.94%
	Sulfur	0.42%
	Btu/lb.	8,050
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2050°F
	Fluid	2300°F
<b>Recoverable Reserves</b>	294 million tons	
<b>Annual Production</b>	Permitted for 10 million tons/year 1999 - 3.2 million tons 2000 - 3.1 million tons	
<b>Storage Capacity</b>	24,000 tons (barn)	
<b>Storage Recharge Rate</b>	1,500 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading coupled with weigh-in-motion track scales	
<b>Loading Rate</b>	5,500 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**Vulcan  
BUCKSKIN MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Buckskin Jct., Wyoming (Campbell County) 10 miles northeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Mark Pettibone, Senior Vice President Sales 9200 W. Cross Dr., Suite 321 Littleton, Colorado 80123 Phone: (303) 904-8797 / Fax: (303) 904-8799 E-mail wmpettibone@prodigy.net	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	34.00%
	Volatile Matter	30.70%
	Moisture	29.50%
	Ash	5.50%
	Sodium As % Of Ash	1.50%
	Sulfur	0.38%
	Btu/lb.	8,400
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2189°F
	Fluid	2231°F
<b>Recoverable Reserves</b>	522 million tons	
<b>Annual Production</b>	Loading capacity, 30 million tons 1999 - 15.6 million tons 2000 - 15.8 million tons	
<b>Storage Capacity</b>	61,500 tons total (five silos)	
<b>Storage Recharge Rate</b>	3,000 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin coupled with weigh-in-motion track scales; flood-loading backup	
<b>Loading Rate</b>	6,000 tons per hour	
<b>Track Configuration</b>	Loop track with siding holding two unit trains on site	

**Vulcan  
NORTH ROCHELLE MINE**

<b>Type of Mine</b>	Surface - dragline operation and truck shovel	
<b>Loading Station</b>	North Rochelle Mine (Campbell County) 60 miles southeast of Gillette, Wyoming	
<b>Marketing Contact</b>	Mark Pettibone, Senior Vice President Sales 9200 W. Cross Dr., Suite 321 Littleton, Colorado 80123 Phone: (303) 904-8797 / Fax: (303) 904-8799 E-mail wmpettibone@prodigy.net	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	36.90%
	Volatile Matter	31.80%
	Moisture	27.00%
	Ash	4.70%
	Sodium as % of Ash	1.90%
	Sulfur	0.23%
	Btu/lb.	8,800
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2129°F
	Fluid	2201°F
<b>Recoverable Reserves</b>	303 million tons	
<b>Annual Production</b>	Loading capacity, 25 million tons 1999 - 8.2 million tons 2000 - 17.3 million tons	
<b>Storage Capacity</b>	50,000 tons	
<b>Storage Recharge Rate</b>	4,000 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin coupled with weigh-in motion track scale	
<b>Loading Rate</b>	6,000 tons per hour	
<b>Track Configuration</b>	Loop track holding up to four unit trains on site	

## COLORADO / NEW MEXICO

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### **RATON BASIN**

Pittsburg & Midway Coal Mining York Canyon Mine	32
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### **SAN JUAN BASIN**

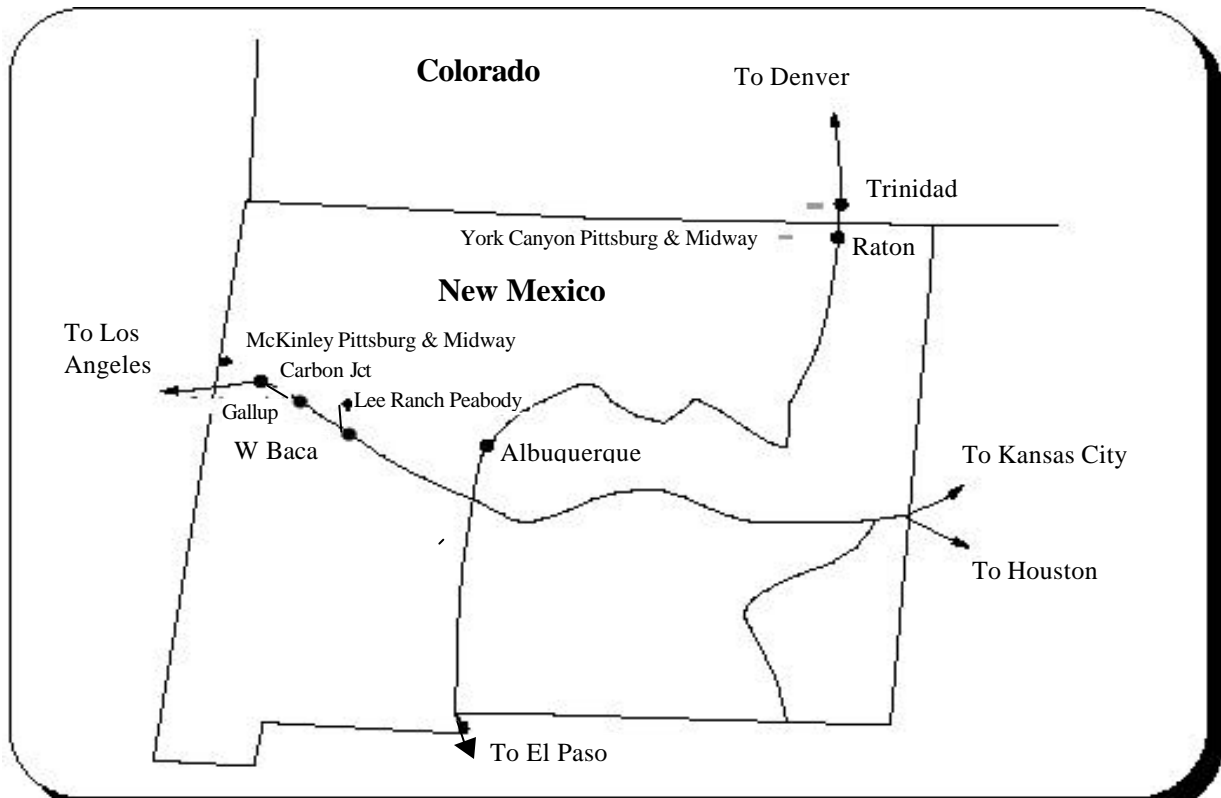
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## COLORADO / NEW MEXICO

BNSF serves both the Raton Basin in southeast Colorado and northeast New Mexico and the San Juan Basin in northwest New Mexico. The high-quality coal deposits are characterized by high Btu, low-sulfur, low ash, and low moisture content. BNSF reaches other Colorado coal reserves through interchange with the Union Pacific Railroad.





**Pittsburg & Midway Coal Mining Co.  
YORK CANYON MINE**

<b>Type of Mine</b>	Surface - truck and shovel operation	
<b>Loading Station</b>	York Canyon, New Mexico (Colfax County) 35 miles southwest of Raton, New Mexico	
<b>Marketing Contact</b>	M. W. Dix, Jr., Vice President Marketing Pittsburg & Midway Coal Mining Co. P. O. Box 6518 Englewood, Colorado 80155-6518 Phone: (303) 930-4115 / Fax: (303) 930-4043 E-mail mdix@chevron.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	46.00%
	Volatile Matter	34.00%
	Moisture	5.00%
	Ash	15.00%
	Sodium as % of Ash	0.40%
	Sulfur	0.60%
	Btu/lb.	11,700
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2430°F
	Fluid	2700°F
<b>Recoverable Reserves</b>	15 million tons	
<b>Annual Production</b>	Permitted for 6 million tons/year 1999 - 1.2 million tons 2000 - 1.2 million tons	
<b>Storage Capacity</b>	150,000 tons total (stockpile and two silos)	
<b>Storage Recharge Rate</b>	18,000 tons per day	
<b>Loading &amp; Weighing</b>	Batch weigh bin	
<b>Loading Rate</b>	3,800 tons per hour	
<b>Washing Capability</b>	None	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**National King Coal, LLC**  
**KING COAL MINE**

<b>Type of Mine</b>	Underground - continuous operation	
<b>Loading Station</b>	Carbon Jct., New Mexico (McKinley County) 10 miles west of Gallup, New Mexico Coal is trucked from mine, located near Hesperus, Colorado, to BNSF loading station.	
<b>Marketing Contact</b>	Brad Gosche National King Coal, LLC 1315 Main Avenue Suite 215 Durango, Colorado 81301 Phone: (970) 209-6509 / Fax: (970) 382-8293 E-mail Brad.Gosche@Tanoma.Com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	52.00%
	Volatile Matter	33.00%
	Moisture	5.00%
	Ash	10.00%
	Sodium as % of Ash	0.39%
	Sulfur	0.67%
	Btu/lb.	12,800
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2660°F
	Fluid	2700°F
<b>Recoverable Reserves</b>	40 million tons	
<b>Annual Production</b>	Permitted for 800,000 tons/year 1999 - 300,000 tons 2000 - 300,000 tons	
<b>Storage Capacity</b>	50,000 tons	
<b>Storage Recharge Rate</b>	700 tons per hour	
<b>Loading &amp; Weighing</b>	Front end loader and belt scale	
<b>Loading Rate</b>	700 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**Peabody Holding Co., Inc./Powder River Coal Company**  
**LEE RANCH MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Lee Ranch Jct., New Mexico (Cibola County) 35 miles north of Grants, New Mexico	
<b>Marketing Contact</b>	James C. Campbell, Sr. VP Sales and Marketing Peabody COALSALES Co. 701 Market Street St. Louis, MO 63101 Phone: (314) 342-7520 / Fax: (314) 342-7529 E-mail Jcampbel@peabodygroup.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	34.40%
	Volatile Matter	32.50%
	Moisture	15.00%
	Ash	18.10%
	Sodium as % of Ash	0.24%
	Sulfur	0.88%
	Btu/lb.	9,150
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2365°F
	Fluid	2700°F
<b>Recoverable Reserves</b>	400 million tons	
<b>Annual Production</b>	Permitted for 6 million tons/year 1999 - 4.7 million tons 2000 - 5.3 million tons	
<b>Storage Capacity</b>	45,000 tons total (three silos)	
<b>Storage Recharge Rate</b>	2,000 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin	
<b>Loading Rate</b>	3,000 tons per hour	
<b>Track Configuration</b>	Loop track and siding holds two unit trains on site	

**Pittsburg & Midway Coal Mining Co.  
McKINLEY MINE**

<b>Type of Mine</b>	Surface - dragline operation	
<b>Loading Station</b>	Defiance, New Mexico (McKinley County) 23 miles northwest of Gallup, New Mexico	
<b>Marketing Contact</b>	M. W. Dix, Jr., Vice President Marketing Pittsburg & Midway Coal Mining Co. P. O. Box 6518 Englewood, Colorado 80155-6518 Phone: (303) 930-4115 / Fax: (303) 930-4043 E-mail mdix@chevron.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	36.00%
	Volatile Matter	34.80%
	Moisture	14.60%
	Ash	14.60%
	Sodium as % of Ash	1.02%
	Sulfur	0.54%
	Btu/lb.	9,800
	Size	3" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2420°F
	Fluid	2618°F
<b>Recoverable Reserves</b>	50 million tons	
<b>Annual Production</b>	1999 - 7.2 million tons 2000 - 5.3 million tons	
<b>Storage Capacity</b>	250,000 tons	
<b>Storage Recharge Rate</b>	50,000 tons per day	
<b>Loading &amp; Weighing</b>	Batch weigh bin	
<b>Loading Rate</b>	3,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

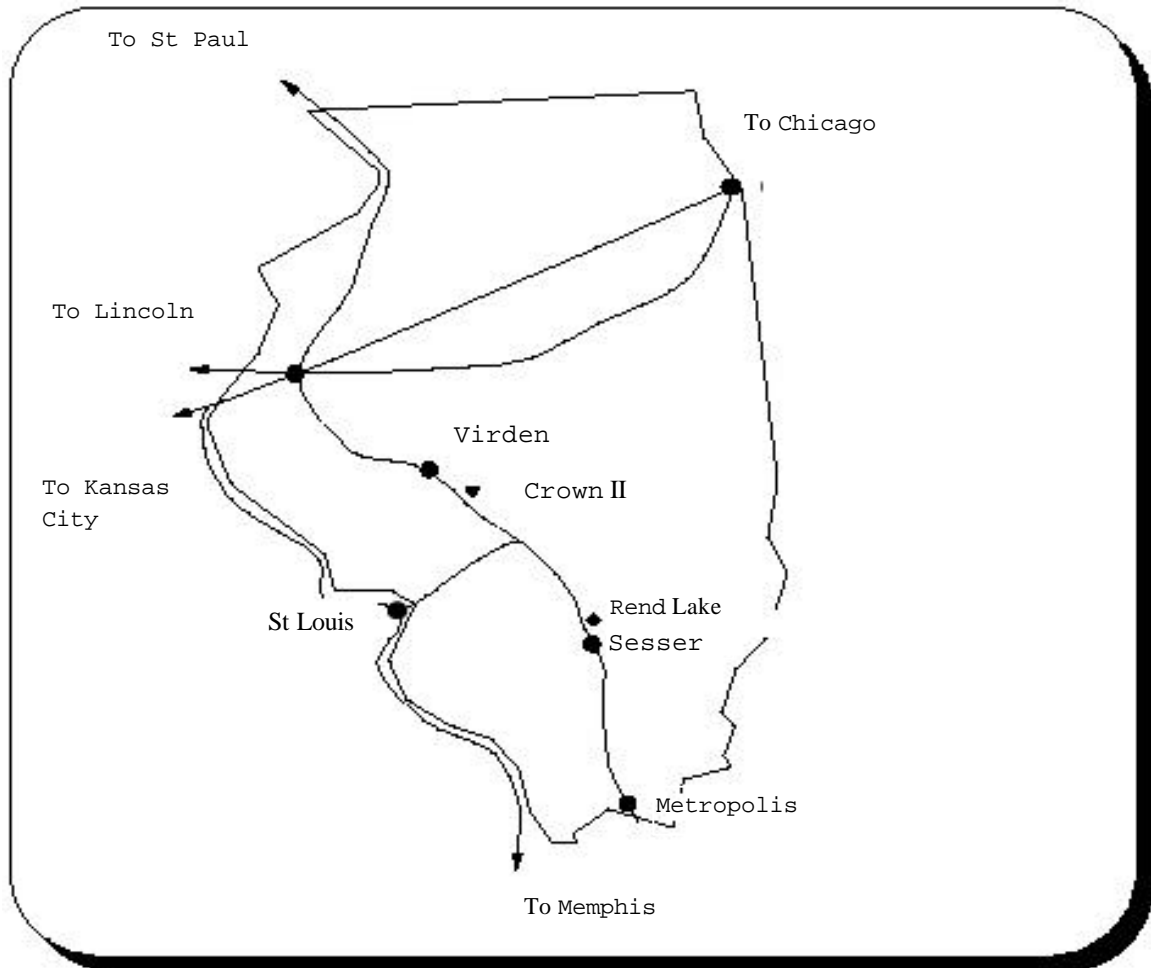
## ILLINOIS

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## ILLINOIS

Illinois coal deposits are characterized by high Btu, mid-range sulfur, moderate ash, and low moisture content. Eastern coal-fired power plants often times blend high-Btu Illinois coal with low-sulfur western coal to optimize their coal burns. BNSF provides direct service to two mines in the Illinois Basin and accesses several others through interchange with other railroads.



**CONSOL ENERGY, INC.  
REND LAKE**

<b>Type of Mine</b>	Underground - longwall/continuous operation	
<b>Loading Station</b>	Sesser, Illinois (Jefferson County) 4 miles north of Sesser, Illinois	
<b>Marketing Contact</b>	Keith Bellan CONSOL Energy, Inc. 3701 Algonquin Road Rolling Meadows, Illinois 60008 Phone: (847) 394-8854 / Fax: (847) 394-8949 E-mail Keithbellan@consolenergy.com	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	49.60%
	Volatile Matter	32.70%
	Moisture	11.50%
	Ash	6.20%
	Sodium as % of Ash	1.85%
	Sulfur	1.35%
	Btu/lb.	12,000
	Size	1 1/2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2350°F
	Fluid	2570°F
<b>Recoverable Reserves</b>	79 million tons	
<b>Annual Production</b>	1999 - 3.7 million tons 2000 - 2.7 million tons	
<b>Storage Capacity</b>	26,000 tons total raw coal (two silos) 39,000 tons total clean coal (three silos)	
<b>Storage Recharge Rate</b>	1000 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading coupled with weigh-in-motion track scale	
<b>Loading Rate</b>	5,000 tons per hour	
<b>Washing Capability</b>	100% washed /Heavy media/water	
<b>Track Configuration</b>	Loop track holds one unit train on site (130 cars)	

**Freeman Energy Corp. / Freeman United Coal Mining Co.**  
**CROWN II MINE**

<b>Type of Mine</b>	Underground - continuous operation	
<b>Loading Station</b>	Girard, Illinois (Macoupin County) 2 miles southeast of Virden, Illinois	
<b>Marketing Contact</b>	Bryan Galli Freeman Energy Corp. 1999 Wabash Ave., Suite 200-C Springfield, Illinois 62704-5365 Phone: (217) 793-7444 / Fax: (217) 698-3379	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	42.50%
	Volatile Matter	34.50%
	Moisture	15.00%
	Ash	8.00%
	Sodium as % of Ash	1.50%
	Sulfur	3.35%
	Btu/lb.	10,700
	Size	2" x 0", 1-1/4" x 1/4"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	1975°F
	Fluid	2300°F
<b>Recoverable Reserves</b>	30 million tons	
<b>Annual Production</b>	Permitted for 2.5 million tons/year	
<b>Storage Capacity</b>	12,000 tons raw coal 12,000 tons clean coal	
<b>Storage Recharge Rate</b>	9,000 tons per day	
<b>Loading &amp; Weighing</b>	Flood loading coupled with weigh-in-motion track scales	
<b>Loading Rate</b>	5,000 tons per hour	
<b>Washing Capability</b>	Jig wash with cyclones	
<b>Track Configuration</b>	Loop track holds one unit train on site	



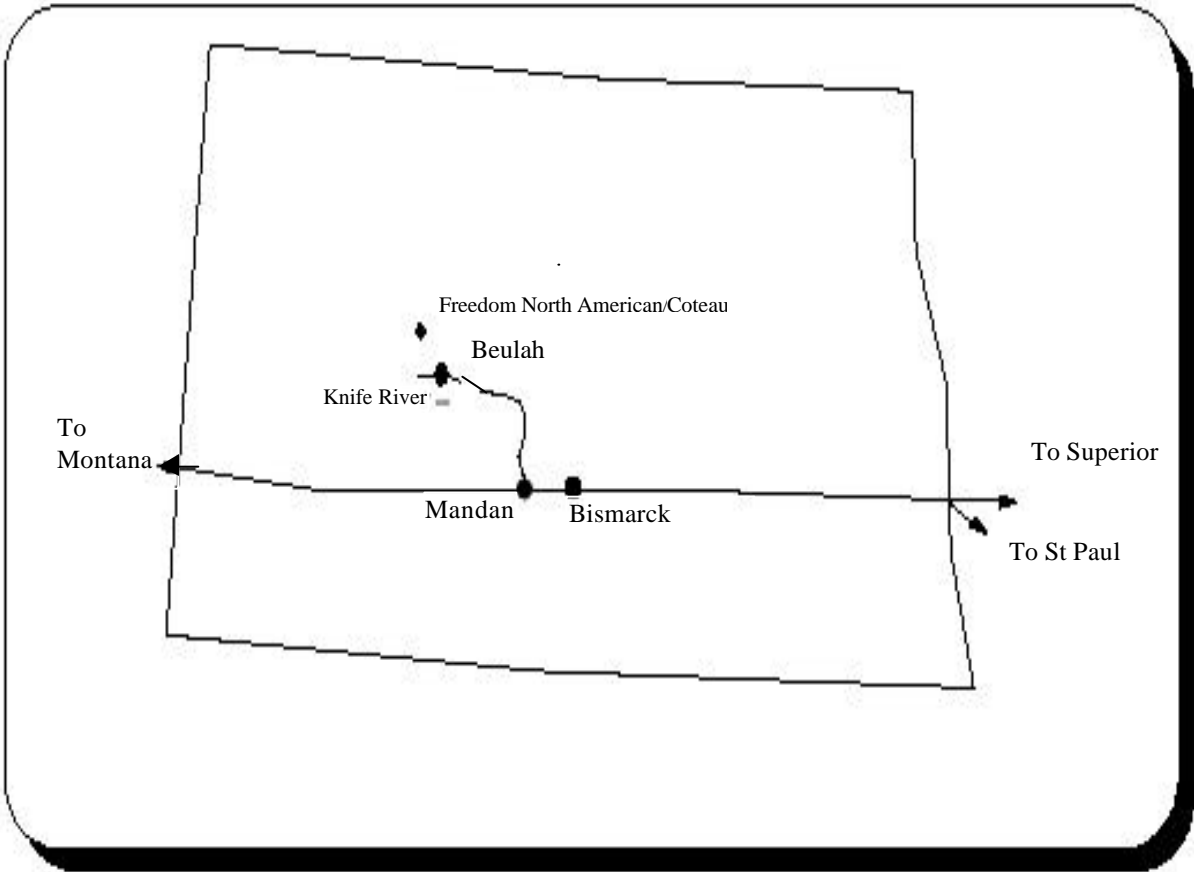
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**NORTH DAKOTA**

Lignite is available from BNSF-served surface mines in North Dakota. This lignite field is part of the Great Plains coal area. Heat values of the deposits in this area range from 6,500 to 7,000 Btu/lb. The lignite is primarily burned by local power plants, but can be used by any properly designated stokers, coal-fired units and cyclone furnaces.



**MDU Resources Group, Inc. / Knife River Coal Mining Co.  
BEULAH MINE**

<b>Type of Mine</b>	Lignite surface - dragline operation	
<b>Loading Station</b>	Beulah Mine, North Dakota (Mercer County) 2 miles south of Beulah, North Dakota	
<b>Marketing Contact</b>	Blanding Borstad Knife River Corporation Box 39 Beulah, North Dakota 58523 Phone: (701) 873-4333 / Fax: (701) 873-7784	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	31.50%
	Volatile Matter	26.00%
	Moisture	36.00%
	Ash	6.50%
	Sodium as % of Ash	6.00%
	Sulfur	0.90%
	Btu/lb.	7,000
	Size	3" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2122°F
	Fluid	2259°F
<b>Recoverable Reserves</b>	83 million tons	
<b>Annual Production</b>	Permitted for 4.5 million tons/year 1999 - 2.9 million tons 2000 - 2.7 million tons	
<b>Storage Capacity</b>	30,000 tons	
<b>Storage Recharge Rate</b>	12,000 tons per day	
<b>Loading &amp; Weighing</b>	Tipple with chutes to handle 1,600 tons per hour and second tipple capable of 750 tons per hour; weighing for rail movements is handled at BNSF Mandan Yard	
<b>Loading Rate</b>	2,350 tons per hour	
<b>Track Configuration</b>	Three load tracks, three empty tracks, run-around	
<b>Information</b>	Beulah Mine supplies lignite to an electric generating station adjacent to the mine as well as other markets via rail haul.	

**North American Coal Corp. / Coteau Properties Co.**  
**FREEDOM MINE**

<b>Type of Mine</b>	Lignite surface - dragline operation	
<b>Loading Station</b>	Antelope Valley, North Dakota (Mercer County) 8 miles northwest of Beulah, North Dakota	
<b>Marketing Contact</b>	Mark Haugen, Engineering Manager Coteau Properties Co. 204 County Road 15 Beulah, North Dakota 58523 Phone: (701) 873-2281 / Fax: (701) 873-2579	
<b>Coal Specifications</b>	<b>Proximate Analysis (as received)</b>	<b>Typical</b>
	Fixed Carbon	29.00%
	Volatile Matter	27.00%
	Moisture	36.80%
	Ash	7.20%
	Sodium as % of Ash	5.50%
	Sulfur	0.70%
	Btu/lb.	6,775
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2280°F
	Fluid	2330°F
<b>Recoverable Reserves</b>	550 million tons	
<b>Annual Production</b>	1999 - 16.3 million tons 2000 - 16.2 million tons	
<b>Storage Capacity</b>	450,000 tons (two stockpiles)	
<b>Storage Recharge Rate</b>	2,600 tons per hour	
<b>Loading &amp; Weighing</b>	Discharge belt to 50-car train	
<b>Loading Rate</b>	2,600 tons per hour	
<b>Track Configuration</b>	Single track holds 60 cars on site	
<b>Information</b>	Freedom Mine delivers lignite to two facilities via mine mouth conveyor and others via railroad	

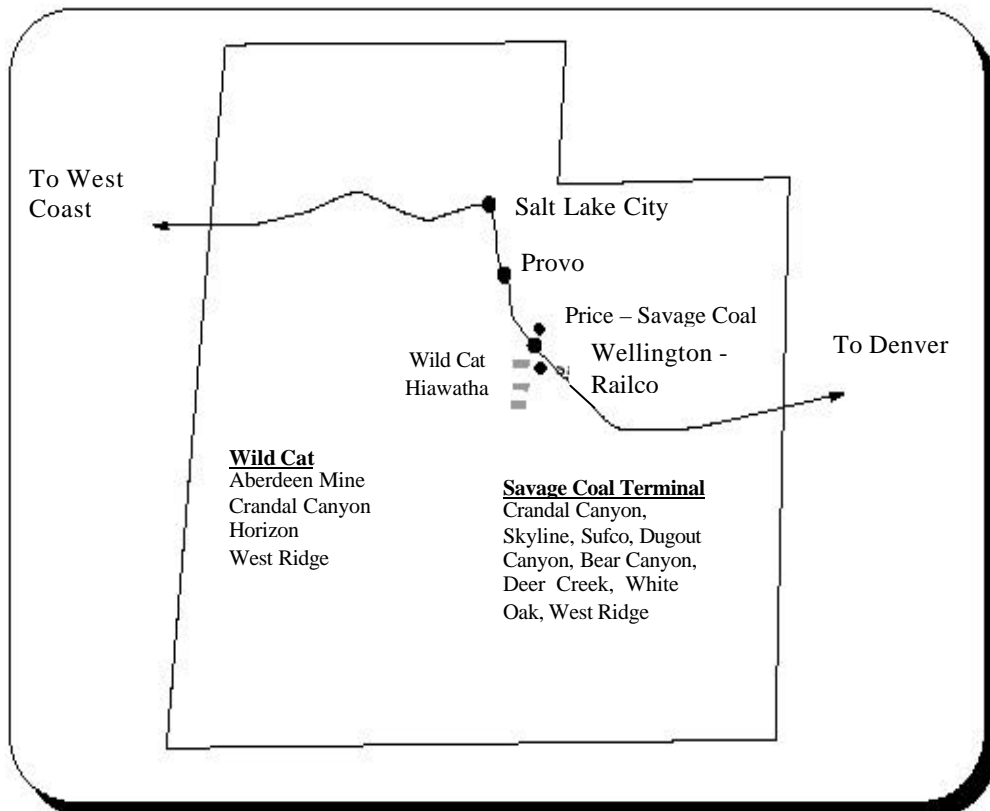
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# UTAH

Burlington Northern and Santa Fe Railway has access to Utah coal mines through Utah Railway, a connecting carrier. Other mines, producers and coal traders listed are accessed by Utah Railway through loadouts at Wild Cat, Savage Coal Terminal, Railco at Wellington (CV Spur loadout), and Hiawatha, Utah. Utah Railway interchanges coal trains with BNSF at Provo, Utah (westbound) and Grand Junction, Colorado (eastbound).



**ANDALEX Resources, Inc. / Tower Division  
ABERDEEN MINE**

<b>Type of Mine</b>	Underground - longwall operation	
<b>Loading Station</b>	Wild Cat, Utah (Carbon County) 5 miles southwest of Price, Utah	
<b>Marketing Contact</b>	Karl Yoder Andalex Resources, Inc. 45 West 10,000 South Sandy, UT 84070 Phone: (801) 568-8900 / Fax: (801) 568-8930	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	46.95%
	Volatile Matter	37.55%
	Moisture	7.00%
	Ash	8.50%
	Sodium as % of Ash	1.85%
	Sulfur	0.60%
	Btu/lb.	12,000
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2250°F
	Fluid	2450°F
<b>Recoverable Reserves</b>	14 million tons	
<b>Annual Production</b>	1999 - 2.0 million tons 2000 - 1.5 million tons	
<b>Storage Capacity</b>	150,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	5,000 tons per hour	
<b>Loading &amp; Weighing</b>	Batch weigh bin	
<b>Loading Rate</b>	5,000 tons per hour	
<b>Track Configuration</b>	Siding holds one unit train on site	

**ANDALEX Resources, Inc. and Intermountain Power  
GENWAL Resources (operating company)  
CRANDALL CANYON MINE**

<b>Type of Mine</b>	Underground - longwall operation	
<b>Loading Stations</b>	Wild Cat, Utah (Carbon County) 5 miles southwest of Price, Utah or Savage Coal Terminal, Utah (Carbon County) 6 miles southeast of Price, Utah	
<b>Marketing Contact</b>	Karl Yoder ANDALEX Resources, Inc. 45 West 10,000 South, Suite 401 Sandy, Utah 84070 Phone: (801) 568-8900 / Fax: (801) 568-8930	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	42.97%
	Volatile Matter	40.53%
	Moisture	7.50%
	Ash	9.00%
	Sodium as % of Ash	1.85%
	Sulfur	0.60%
	Btu/lb.	12,300
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2200°F
	Fluid	2400°F
<b>Recoverable Reserves</b>	20 million tons	
<b>Annual Production</b>	1999 - 3.6 million tons 2000 - 3.8 million tons	
<b>Storage Capacity</b>	Wild Cat: 100,000 tons (stockpile) Savage Coal Terminal: 150,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	Wild Cat: 5,000 tons per hour Savage Coal Terminal: 1,250 tons per hour	
<b>Loading &amp; Weighing</b>	Wild Cat: Batch weigh bin Savage Coal Terminal: Flood loading with belt scale	
<b>Loading Rate</b>	Wild Cat: 5,000 tons per hour Savage Coal Terminal: 5,000 tons per hour	
<b>Track Configuration</b>	Wild Cat: Siding holds one unit train on site Savage Coal Terminal: Loop track holds one unit train on site	



**ANDALEX Resources, Inc. and Intermountain Power  
WEST RIDGE Resources, Inc. (operating company)  
WEST RIDGE MINE**

<b>Type of Mine</b>	Underground - longwall operation	
<b>Loading Stations</b>	Wild Cat, Utah (Carbon County) 5 miles southwest of Price, Utah or Savage Coal Terminal, Utah (Carbon County) 6 miles southeast of Price, Utah	
<b>Marketing Contact</b>	Karl Yoder ANDALEX Resources, Inc. 45 West 10,000 South, Suite 401 Sandy, Utah 84070 Phone: (801) 568-8900 / Fax: (801) 568-8930	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	45.60%
	Volatile Matter	37.50%
	Moisture	7.50%
	Ash	8.50%
	Sodium as % of Ash	0.60%
	Sulfur	1.15%
	Btu/lb.	12,550
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2350°F
	Fluid	2700°F
<b>Recoverable Reserves</b>	50 million tons	
<b>Annual Production</b>	2000 - 0.5 million tons 2001 - 2.0 million tons (estimate)	
<b>Storage Capacity</b>	Wild Cat: 100,000 tons (stockpile) Savage Coal Terminal: 150,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	Wild Cat: 5,000 tons per hour Savage Coal Terminal: 1,250 tons per hour	
<b>Loading &amp; Weighing</b>	Wild Cat: Batch weigh bin Savage Coal Terminal: Flood loading with belt scale	
<b>Loading Rate</b>	Wild Cat: 5,000 tons per hour Savage Coal Terminal: 5,000 tons per hour	
<b>Track Configuration</b>	Wild Cat: Siding holds one unit train on site Savage Coal Terminal: Loop track holds one unit train on site	

**Arch / Canyon Fuel Co., LLC**  
**SKYLINE MINES**

<b>Type of Mine</b>	Underground - longwall operation
<b>Loading Station</b>	Savage Coal Terminal, Utah (Carbon County) 6 miles southeast of Price, Utah
<b>Marketing Contact</b>	John Eaves, Vice President, Marketing & Transportation Arch Coal Sales Company City Place One, Suite 300 St. Louis, MO 63141 Phone: (314) 994-2835 / Fax: (314) 994-2719 E-mail jeaves@archcoal.com  Kevin Birrell, Director Marketing Services Canyon Fuel Company, LLC 6955 South Union Park Center, Suite 540 Midvale, UT 84047 Phone: [801] 569-4709 / Fax: [801] 569-4799 E-mail kbirrell@archcoal.com

<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	42.10%
	Volatile Matter	40.40%
	Moisture	8.80%
	Ash	9.00%
	Sodium as % of Ash	0.90%
	Sulfur	0.55%
	Btu/lb.	11,710
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2150°F
	Fluid	2350°F

<b>Recoverable Reserves</b>	74 million tons
<b>Annual Production</b>	1999 - 3.8 million tons 2000 - 3.0 million tons
<b>Storage Capacity</b>	150,000 tons (stockpile)
<b>Storage Recharge Rate</b>	1,250 tons per hour
<b>Loading &amp; Weighing</b>	Flood loading with belt scale
<b>Loading Rate</b>	5,000 tons per hour
<b>Track Configuration</b>	Loop track holds one unit train on site

**Arch / Canyon Fuel Co., LLC**  
**DUGOUT CANYON MINE**

<b>Type of Mine</b>	Underground - longwall operation	
<b>Loading Station</b>	Savage Coal Terminal, Utah (Carbon County) 6 miles southeast of Price, Utah	
<b>Marketing Contact</b>	<p>John Eaves, Vice President, Marketing &amp; Transportation  Arch Coal Sales Company  City Place One, Suite 300  St. Louis, MO 63141  Phone: (314) 994-2835 / Fax: (314) 994-2719  E-mail jeaves@archcoal.com</p> <p>Kevin Birrell, Director Marketing Services  Canyon Fuel Company, LLC  6955 South Union Park Center, Suite 540  Midvale, UT 84047  Phone: [801] 569-4709 / Fax: [801] 569-4799  E-mail kbirrell@archcoal.com</p>	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	47.60%
	Volatile Matter	36.90%
	Moisture	7.30%
	Ash	10.00%
	Sodium as % of Ash	0.80%
	Sulfur	0.60%
	Btu/lb.	11,950
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2300°F
	Fluid	2550°F
<b>Recoverable Reserves</b>	68 million tons	
<b>Annual Production</b>	1999 - 0.2 million tons 2000 - 0.5 million tons	
<b>Storage Capacity</b>	150,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	1,250 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading with belt scale	
<b>Loading Rate</b>	5,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train	

**Arch / Canyon Fuel Co., LLC  
SUFCA MINE**

<b>Type of Mine</b>	Underground - longwall operation	
<b>Loading Station</b>	Savage Coal Terminal, Utah (Carbon County) 6 miles southeast of Price, Utah	
<b>Marketing Contact</b>	<p>John Eaves, Vice President, Marketing &amp; Transportation Arch Coal Sales Company City Place One, Suite 300 St. Louis, MO 63141 Phone: (314) 994-2835 / Fax: (314) 994-2719 E-mail jeaves@archcoal.com</p> <p>Kevin Birrell, Director Marketing Services Canyon Fuel Company, LLC 6955 South Union Park Center, Suite 540 Midvale, UT 84047 Phone: [801] 569-4709 / Fax: [801] 569-4799 E-mail kbirrell@archcoal.com</p>	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	46.00%
	Volatile Matter	36.00%
	Moisture	10.10%
	Ash	8.50%
	Sodium as % of Ash	3.50%
	Sulfur	0.45%
	Btu/lb.	11,400
	Size	2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2050°F
	Fluid	2225°F
<b>Recoverable Reserves</b>	126 million tons	
<b>Annual Production</b>	1999 - 5.7 million tons 2000 - 5.9 million tons	
<b>Storage Capacity</b>	150,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	1,250 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading with belt scale	
<b>Loading Rate</b>	5,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**Co-op Mining Company**  
**BEAR CANYON #1 MINE**

<b>Type of Mine</b>	Underground - continuous miner operation	
<b>Loading Station</b>	Savage Coal Terminal, Utah (Carbon County) 6 miles southeast of Price, Utah Railco Loadout Wellington, Utah - CV Spur	
<b>Marketing Contact</b>	Eldon Kingston, Sales and Marketing Manager Co-op Mining Company 3753 South State Salt Lake City, Utah 84115 Phone: (801) 262-5493 / Fax: (801) 268-4840 E-mail ekingston@Qwest.net	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	44.00%
	Volatile Matter	40.00%
	Moisture	7.00%
	Ash	9.00%
	Sodium as % of Ash	2.00%
	Sulfur	0.50%
	Btu/lb.	12,400
	Size	2" x 0", 1-1/4 x 1/4"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2200°F
	Fluid	2400°F
<b>Recoverable Reserves</b>	50 million tons	
<b>Annual Production</b>	2000 - 1.0 million tons	
<b>Storage Capacity</b>	150,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	1,250 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading with belt scale	
<b>Loading Rate</b>	5,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

**PacifiCorp**  
**DEER CREEK MINE**

<b>Type of Mine</b>	Underground - longwall operation	
<b>Loading Station</b>	Savage Coal Terminal, Utah (Carbon County) 6 miles southeast of Price, Utah	
<b>Marketing Contact</b>	Neil Getzelman, General Manager Fuel Marketing and Supply PacifiCorp 201 South Main, Suite 2100 Salt Lake City, UT 84140-0021 Phone: (801) 220-4608 / Fax: (801) 220-4578 E-mail Neil.Getzelman@pacificorp.com	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	42.80%
	Volatile Matter	38.70%
	Moisture	8.95%
	Ash	10.00%
	Sodium as % of Ash	2.50%
	Sulfur	0.43%
	Btu/lb.	11,900
	Size	1-5/8" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2148°F
	Fluid	2358°F
<b>Recoverable Reserves</b>	90 million tons	
<b>Annual Production</b>	1999 - 3.8 million tons 2000 - 4.3 million tons	
<b>Storage Capacity</b>	150,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	1,250 tons per hour	
<b>Loading &amp; Weighing</b>	Flood loading with belt scale	
<b>Loading Rate</b>	5,000 tons per hour	
<b>Track Configuration</b>	Loop track holds one unit train on site	

## **Additional Utah Coal Producers / Traders**

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Following are additional Utah coal producers and/or coal traders who have access to loadouts on Utah Railway:

### **AMCI / Tanoma Energy, Inc.**

Ron Ross  
Tanoma Energy, Inc  
90 West 100 North, Suite 8  
Price, Utah 84501  
Phone: (801) 637-8650 / Fax: (801) 637-8653  
E-mail Ron.Ross@Tanoma.Com

### **Horizon Coal Co. (Horizon Mine)**

Robert H. Scott, President  
T. Wallace Taylor, Vice President  
Commonwealth Coal Sales, Inc.  
5413 Patterson Ave., Suite 200  
Richmond, Virginia 23226  
Phone: (804) 282-9822 / Fax (804) 282-9836  
E-mail CCS@EROLS.COM

### **Oxbow Carbon and Minerals**

Jack Bonaquisto, Vice President  
Oxbow Carbon and Minerals, Inc.  
583 East Main Street  
Price, Utah 84501  
Phone: (801) 637-4977 / Fax: (801) 637-4333

### **White Oak Mining & Construction (White Oak Mine)**

Robert H. Scott, President  
T. Wallace Taylor, Vice President  
Commonwealth Coal Sales, Inc.  
5413 Patterson Ave., Suite 200  
Richmond, Virginia 23226  
Phone: (804) 282-9822 / Fax (804) 282-9836  
E-mail CCS@EROLS.COM

## WASHINGTON

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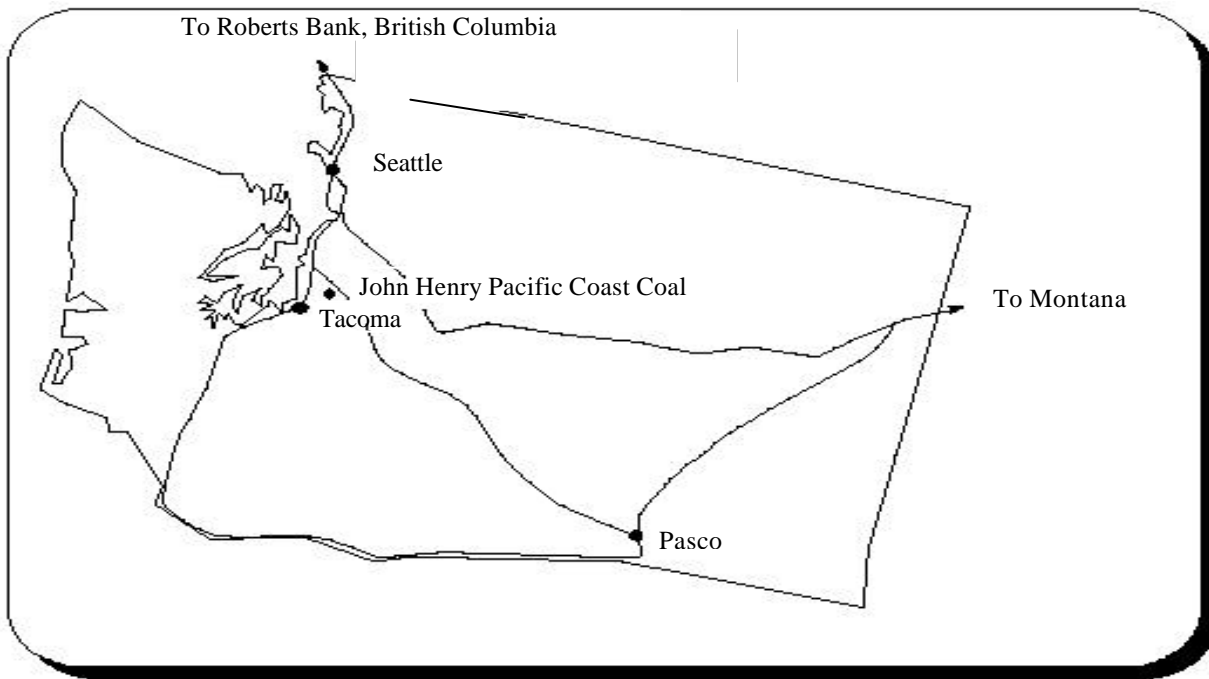
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## WASHINGTON

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Coal reserves in the Green River coal-bearing area Washington are served by BNSF. This coal is less than 200 miles from the Pacific port at Roberts Bank, British Columbia, Canada.



**Pacific Coast Coal Co., Inc.**  
**JOHN HENRY MINE**

<b>Type of Mine</b>	Surface - truck/shovel operation	
<b>Loading Station</b>	Ravensdale, Washington (King County) 30 miles southeast of Seattle, Washington	
<b>Marketing Contact</b>	David J. Morris, General Manager Pacific Coast Coal Co., Inc. P. O. Box 450 Black Diamond, Washington 98010 Phone: (206) 720-1899 / Fax: (425) 432-8755 E-mail dmorris@aol.com	
<b>Coal Specifications</b>	<b>Proximate Analysis</b>	<b>Typical (as received)</b>
	Fixed Carbon	47.00%
	Volatile Matter	31.00%
	Moisture	7.00%
	Ash	15.00%
	Sodium as % of Ash	0.50%
	Sulfur	0.80%
	Btu/lb.	11,600
	Size	1-1/2" x 0"
	Ash Fusion Temp./Reducing Atmosphere:	
	Initial	2700°F
	Fluid	2700°F
<b>Recoverable Reserves</b>	1.5 million tons	
<b>Annual Production</b>	Permitted for 330,000 tons 1999 - 20,000 tons 2000 - 20,000 tons	
<b>Storage Capacity</b>	60,000 tons (stockpile)	
<b>Storage Recharge Rate</b>	2,000 tons per day	
<b>Loading &amp; Weighing</b>	Front-end loader with weighing device	
<b>Loading Rate</b>	400 tons per hour	
<b>Washing Capability</b>	180-ton/hour heavy media cyclone	
<b>Track Configuration</b>	1/2-mile siding	
<b>Information</b>	John Henry coal is sold to domestic and export users. The rail loadout is less than 190 miles from Roberts Bank terminal in British Columbia. The mine is currently idle due to low export prices.	

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## MINE GUIDE REQUEST FORM

PLEASE COMPLETE:

\_\_\_\_\_ SEND MINE GUIDE

\_\_\_\_\_ SEND ADDITIONAL MINE GUIDE(S): \_\_\_\_\_ copies

\_\_\_\_\_ CORRECT MINE GUIDE MAILING LIST

\_\_\_\_\_ REMOVE FROM MINE GUIDE MAILING LIST

\_\_\_\_\_ OTHER: \_\_\_\_\_

NAME: \_\_\_\_\_

TITLE: \_\_\_\_\_

DEPT: \_\_\_\_\_

COMPANY: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

\_\_\_\_\_

TELEPHONE: \_\_\_\_\_

FAX: \_\_\_\_\_

RETURN FORM TO:      Coal Business Unit  
                                Burlington Northern and Santa Fe Railway  
                                P. O. Box 961051  
                                Fort Worth, TX 76161-0051  
                                Fax: (817) 352-7939

OR CONTACT US AT OUR INTERNET ADDRESS: [Coal.Marketing@BNSF.com](mailto:Coal.Marketing@BNSF.com)

## NOTES

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