SELECTED COAL DEPOSITS IN ALASKA

By Mark P. Meyer

UNITED STATES DEPARTMENT OF THE INTERIOR

Manuel Lujan, Jr., Secretary

BUREAU OF MINES

T S Ary, Director

*************************************************************************** OFR 33-90
NOTICE

The information presented in this report is current to November 1987.
<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract</td>
<td>1</td>
</tr>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Acknowledgments</td>
<td>1</td>
</tr>
<tr>
<td>Organization of directory</td>
<td>1</td>
</tr>
<tr>
<td>Deposit selection</td>
<td>3</td>
</tr>
<tr>
<td>History of coal mining in Alaska</td>
<td>3</td>
</tr>
<tr>
<td>Current coal development in Alaska</td>
<td>4</td>
</tr>
<tr>
<td>Major coalfields of Alaska</td>
<td>6</td>
</tr>
<tr>
<td>Northern Alaska Coalfield</td>
<td>6</td>
</tr>
<tr>
<td>Lisburne Coalfield</td>
<td>6</td>
</tr>
<tr>
<td>Chicago Creek Coalfield</td>
<td>6</td>
</tr>
<tr>
<td>Nulato Coalfield</td>
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<tr>
<td>Rampart Coalfield</td>
<td>7</td>
</tr>
<tr>
<td>Eagle-Circle Coalfield</td>
<td>8</td>
</tr>
<tr>
<td>Nenana Coalfield</td>
<td>8</td>
</tr>
<tr>
<td>Jarvis Creek Coalfield</td>
<td>8</td>
</tr>
<tr>
<td>Little Tonzona Coalfield</td>
<td>8</td>
</tr>
<tr>
<td>Broad Pass Coalfield</td>
<td>8</td>
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<tr>
<td>Beluga-Yentna Coalfield</td>
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<tr>
<td>Matanuska Coalfield</td>
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<td>Kenai Coalfield</td>
<td>9</td>
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<td>9</td>
</tr>
<tr>
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<td>9</td>
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<tr>
<td>Herendeen Bay Coalfield</td>
<td>9</td>
</tr>
</tbody>
</table>
## CONTENTS—Continued

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrastructural and institutional factors affecting coal mining in Alaska</td>
<td>9</td>
</tr>
<tr>
<td>Utilities</td>
<td>9</td>
</tr>
<tr>
<td>Electricity</td>
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</tr>
<tr>
<td>Natural gas</td>
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<td>Coal</td>
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<td>Coal transportation modes</td>
<td>12</td>
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<td>Leasing</td>
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<td>16</td>
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<td>Impact-related taxes</td>
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</tr>
<tr>
<td>State mining license tax</td>
<td>16</td>
</tr>
<tr>
<td>Markets in Alaska</td>
<td>17</td>
</tr>
</tbody>
</table>
CONTENTS—Continued

Markets outside Alaska .................................................. 17
Abstracts of selected coal deposits in Alaska ...................... 19
References ........................................................................... 341
Bibliography ....................................................................... 369

ILLUSTRATIONS

1. Major coalfields in Alaska .............................................. 2
2. Electrical transmission systems in Alaska ......................... 11
3. Major railroad and highway systems in Alaska .................. 13
4. Location map of selected coal deposits in Alaska ............... pocket

TABLES

1. Identified and hypothetical coal resources of Alaska ............ 4
2. Coal production in Alaska, 1880-1985 ............................. 5
3. Major coalfields in Alaska ............................................. 7
4. Active coal leases in Alaska ........................................... 15
5. Deposit abstract index of selected coal deposit in Alaska .... 20
UNIT OF MEASURE ABBREVIATIONS USED IN THIS REPORT

<table>
<thead>
<tr>
<th>Abbreviation</th>
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<tr>
<td>Btu</td>
<td>British thermal unit</td>
</tr>
<tr>
<td>Btu/lb</td>
<td>British thermal units per pound</td>
</tr>
<tr>
<td>d</td>
<td>day</td>
</tr>
<tr>
<td>h</td>
<td>hour</td>
</tr>
<tr>
<td>ha</td>
<td>hectare</td>
</tr>
<tr>
<td>Km</td>
<td>Kilometer</td>
</tr>
<tr>
<td>Km²</td>
<td>Square kilometer</td>
</tr>
<tr>
<td>kV</td>
<td>kilovolt</td>
</tr>
<tr>
<td>kW/h</td>
<td>kilowatt hour</td>
</tr>
<tr>
<td>lb</td>
<td>pound</td>
</tr>
<tr>
<td>m</td>
<td>meter</td>
</tr>
<tr>
<td>m³</td>
<td>cubic meter</td>
</tr>
<tr>
<td>Mmt</td>
<td>million metric tons</td>
</tr>
<tr>
<td>mt</td>
<td>metric tons</td>
</tr>
<tr>
<td>mt/d</td>
<td>metric tons per day</td>
</tr>
<tr>
<td>mt/yr</td>
<td>metric tons per year</td>
</tr>
<tr>
<td>MWe</td>
<td>megawatt</td>
</tr>
<tr>
<td>st</td>
<td>short ton</td>
</tr>
<tr>
<td>st/d</td>
<td>short tons per day</td>
</tr>
<tr>
<td>st/yr</td>
<td>short tons per year</td>
</tr>
<tr>
<td>%</td>
<td>percent</td>
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</table>
SELECTED COAL DEPOSITS IN ALASKA: A MINERALS AVAILABILITY SYSTEM DIRECTORY

By Mark P. Meyer

ABSTRACT

This U.S. Bureau of Mines publication presents salient information in abstract form on 247 coal deposits in Alaska. Coverage includes currently producing deposits and deposits that appear to have commercial production potential. Data are taken from coal properties identified by the U.S. Bureau of Mines minerals availability program and by a literature search. Infrastructural and institutional factors affecting coal development in Alaska are also discussed.

INTRODUCTION

In September 1985, the U.S. Bureau of Mines (Bureau) Alaska Field Operations Center (AFOC) began a 2-year project to update the Bureau's minerals availability database on coal in Alaska. The minerals availability program was initiated in 1971 to provide current appraisals of the engineering and the economic availability of minerals for consideration in the formulation of domestic and foreign policies.

Deposit data are obtained from many sources including published and unpublished Bureau reports, records, and files; U.S. Geological Survey (USGS) bulletins, professional papers, and other reports; technical and professional journals; State and Federal agency publications; proprietary company reports; and information obtained from knowledgeable individuals.

The intent of this report is to present salient information on the principal coal deposits in Alaska. This report also contains a summary of historical and current coal mining activity in Alaska and brief discussions of Alaska's infrastructural and institutional factors affecting mineral development.

ACKNOWLEDGEMENTS

The author would like to thank Roy Merritt, coal geologist, State of Alaska Department of Natural Resources, Division of Geological and Geophysical Surveys, Fairbanks, AK, for his critical review of this report. Also thanks go to Benno J. G. Patsch, geologist, Placer U.S. Inc., San Francisco, CA, for supplying data on its coal properties.

Special gratitude is extended to the staff of the Bureau's AFOC, Anchorage, AK. Particular thanks go to Robert B. Hoekzema, supervisory physical scientist and to Denise A. Herzog, mining engineer, for providing support and direction to the author.

ORGANIZATION OF DIRECTORY

This publication is organized into two principal sections: an introductory section and a site-specific deposit abstract section. The introductory section presents background information on the coal mining industry in Alaska, the major coal fields of Alaska (fig. 1), and a description of the existing infrastructural and institutional factors that affect the commercial development of Alaska's coal resources. This last subsection briefly discusses the power utilities, transportation, leasing, taxation, and markets in and outside of Alaska.

The larger section of the publication contains site-specific deposit data abstracts. It is composed of single-page summaries of information pertaining to selected coal deposits in Alaska. The summaries are listed by USGS quadrangle and by the name of the property and its location. They are intended to report deposit information

1Physical scientist, Alaska Field Operations Center, Bureau of Mines, Anchorage, AK.
FIGURE 1. -- Major coalfields in Alaska (Source: Reference 273)
available through 1987. It is important to note that the status, ownership, and other data may change.

Each abstract is composed of the following subject areas: deposit name and coal type, location and ownership (if known), geology, development, published reserve-resources, and references. Within each subject area there are several individual data elements. Not all data elements are reported for each deposit because proprietary data have been omitted and some data either cannot be determined or are not available. The International System of Units (SI) of measurement is used throughout the deposit abstracts except for published reserve-resources. The reserve-resource data are reported in terms and units of the cited publication. The reference section includes bibliographic references for the deposit, the USGS 1:250,000 quadrangle, and the Bureau's minerals availability data base sequence number (MAS). The sequence number is a 10-digit number that is unique to the deposit and allows rapid retrieval of relevant data from the MAS data base.

An extensive but not exhaustive reference section follows the deposit abstracts. This reference section provides the reader with additional sources of information about the deposits described in the report. Also, a bibliography section is included to provide the reader with reports that contain general, non-site-specific data about coal.

DEPOSIT SELECTION

This publication is a directory of selected coal deposits in Alaska. Deposit coverage reflects the Bureau's work conducted under the minerals availability program. From September 1985 to July 1987, the Bureau reviewed 247 selected coal deposits. Of these deposits, 51 were identified in already published sources (table 1). The site-specific deposit abstract section contains more detailed information concerning these deposits.

HISTORY OF COAL MINING IN ALASKA

Small quantities of coal were used by Alaskan natives and by many early explorers. In 1786, Captain Nathaniel Portlock, an English trader, was the first white man to report finding coal in Alaska at Coal Cove on the Kenai Peninsula near Homer, Alaska. The first coal mine in Alaska was opened in 1855 by a Finnish mining engineer named Enoch Furuhjelm for the Russian-American Co. at English Harbor (now Port Graham) on the Kenai Peninsula (320). The coal was used by Russian steamers and American whaling ships. After the purchase of the Alaska Territory by the United States in October 1867, many small mines opened throughout Alaska, but most had closed by 1902 (298). Only a few small mines in isolated areas continued any operations, usually in support of local placer mining. The Coal Land Act of 1873 was extended to Alaska in 1900, opening surveyed lands for coal claims. At that time there were few land surveys in Alaska. In 1904, a second coal land law was passed by Congress to open all lands to coal claims, but locations were limited to four claims totaling 260 ha. These laws created political pressure on President Theodore Roosevelt, who withdrew all coal lands in Alaska from entry in 1906 by executive decree. Starting in 1914, the U.S. Navy began investigating coal from the Bering River Coalfield and from Chickaloon, in the Matanuska Coalfield. Chickaloon coal was successfully tested aboard the U.S.S. Maryland in 1914 (320). The Alaska Leasing Act was also enacted in 1914, but its regulations were not issued until 1916 (298).

Significant coal mining began in 1917 after construction of the Alaska Railroad began in 1916. Mines were opened in the Matanuska and Nenana Coalfields to supply coal to the U.S. Navy, the Alaska Railroad, and communities along the railbelt (298). Approximately one-third of the 35 Mnt of Alaskan coal produced from 1880 to 1985 is estimated to have been mined from the Healy Creek area of the Nenana Coalfield. The Suntrana Mine on Healy Creek produced coal continuously from 1922 to 1962, when a fire forced its closure. Another third of Alaska's coal was produced from Usibelli Coal Mine at Poker Flats on Lignite Creek (Nenana Coalfield). The remaining third was produced from the Matanuska Coalfield (8.3 Mnt) and elsewhere in Alaska (266). Historical coal production peaked in 1965 with a total of 871,379 mt mined (table 2).

Starting in 1924, the U.S. Navy began to convert coal-burning ships to oil. In the period following 1946, the major Alaskan users of coal switched to alternative energy sources. The Alaska Railroad started converting to

Underlined numbers in parentheses refer to items in the list of references preceding the bibliography.
diesel locomotives in 1946. In 1968 the Anchorage-area powerplants, including the military bases, converted to Cook Inlet natural gas. This caused the closure of the Matanuska coal mines with the exception of small-scale production for local heating (298).

TABLE 1. - Identified and hypothetical coal resources of Alaska, million short tons

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<thead>
<tr>
<th>Deposits</th>
<th>Identified</th>
<th>Undiscovered</th>
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<td>4,000,000</td>
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<tr>
<td>Lisburne</td>
<td>1</td>
<td>1</td>
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<td>11,110</td>
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<td>1,500</td>
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<td>Kenai</td>
<td>320</td>
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<tr>
<td>Chignik</td>
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<tr>
<td>Matanuska</td>
<td>150</td>
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<td>Broad Pass</td>
<td>50</td>
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<td>Eagle-Circle</td>
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<td>100</td>
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<tr>
<td>Chicago Creek</td>
<td>5</td>
<td>10</td>
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<tr>
<td>Nulato</td>
<td>NR</td>
<td>50</td>
</tr>
<tr>
<td>Rampart</td>
<td>NR</td>
<td>50</td>
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<tr>
<td>Other deposits</td>
<td>85</td>
<td>2,835</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>170,800</strong></td>
<td><strong>5,595,025</strong></td>
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</table>

NR Not reported.

'See Northern Alaska.

Source: Reference 273.

CURRENT COAL DEVELOPMENT IN ALASKA (80)

Currently, the only producing coal mine in Alaska is the Usibelli Coal Mine in the Nenana Coalfield. In 1985 the Usibelli Coal Co. signed a 15-year contract with Sun Eel Shipping Co. (408) to export 679,000 mt of coal per year to the Korean Electric Power Co. (KEPCO) in Honam, Republic of Korea (80). Usibelli coal is also used at the Golden Valley Electrical Association mine-mouth power plant in Healy, which supplies electrical
<table>
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<td>1985</td>
<td>1,370,000</td>
<td>1986</td>
<td>1,370,000</td>
<td>1987</td>
<td>1,370,000</td>
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</tbody>
</table>

NA Not available

1 Total for 1980 includes coal production from 1880-1891.
2 1972-1984 evaluations are estimates.

Source: Reference 80.
energy to the Fairbanks area and southward to Homer. The Usibelli Coal Co. serving Alaska since 1945 currently has long-term contracts with Ft. Wainwright Army Base, Eielson Air Force Base, Clear Air Force Base, Fairbanks Municipal Utility System, University of Alaska-Fairbanks, and Reliable Coal of Healy, Alaska. Average yearly production is approximately 882,000 mt for in-State use. Interest in coal development in Alaska is continuing, and the following five companies are currently evaluating coal properties.

The Delta Coal Co. continued a feasibility study on its property at Little Gold Creek in the Jarvis Creek Coalfield. Plans call for mining 55,000 mt/yr over a 20-year mine life.

Diamond Alaska Coal Co. is continuing work on engineering and environmental designs, acquiring financing, and developing sales contracts for its coal deposits in the Beluga Coalfield. Plans call for producing 2.2 Mmt/yr with a potential increase in production up to 11 Mmt/yr.

Placer U.S. Inc. is continuing feasibility studies on its coal deposits located in the Beluga Coalfield. Production of 1.1 Mmt/yr is planned. Talks have been held with the Electric Power Development Corp. of Japan in the development of markets for its coal.

Hawley Resources Properties and Rocky Mountain Energy continued feasibility and development studies on its coal properties in the Matanuska Coalfield. Preliminary mine-feasibility studies were conducted with Signal Energy Systems on development of a 150-MWe mine-mouth power plant.

Bering Development Corp. continued feasibility studies on the exportation of 0.6 to 1.6 Mrnt/yr of coal from the Bering River Coalfield.

MAJOR COAL FIELDS OF ALASKA (265, 273)

Alaska’s 16 major coalfields are shown on figure 1 and listed in table 3. The coals are Cretaceous to Tertiary in age and range in rank from anthracite to lignite.

NORTHERN ALASKA COALFIELD

The Northern Alaska Coalfield is the largest in Alaska, underlying 77,700 km² along the north slope of the Brooks Range. The coals occur primarily in the Cretaceous Corwin Formation. They range in rank from subbituminous in the northern portion to bituminous in the southern portion. Some coking coals occur within this coalfield. Individual coalbeds ranging from 4.5 to 12 m thick are characteristic of the group and occur in flat-lying to gently dipping structures.

LISBURRE COALFIELD

The Lisburne Coalfield occupies an area of approximately 500 km² in northwestern Alaska. The coals occur primarily in the Paleozoic Kapaloak Formation with minor amounts occurring in the Cretaceous Corwin Formation. The coals are bituminous in rank and occur in beds generally less than 2 m thick. The beds are generally folded and faulted into complex geologic structures.

CHICAGO CREEK COALFIELD

The Chicago Creek Coalfield on the Seward Peninsula occupies an area of less than 100 km². Coal occurs in the Tertiary Kugruk Formation and is lignite in rank. One coalbed up to 24 m thick has been reported dipping from 45° to 70° in a graben structure.

NULATO COALFIELD

The Nulato Coalfield covers an area of up to 390 km² along the Yukon River in western Alaska. Bituminous to subbituminous coal occurs in the Cretaceous Kaltag Formation. Coking coal occurs in minor amounts in this coalfield. The coalbeds are generally less than 1.2 m thick and have been folded and faulted into locally complex structures.
TABLE 3. - Major coalfields in Alaska

<table>
<thead>
<tr>
<th>Coalfield</th>
<th>Area (km²)</th>
<th>Formation name</th>
<th>Formation age</th>
<th>Coal rank</th>
<th>Thickness (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Alaska</td>
<td>77,700</td>
<td>Corwin</td>
<td>Cretaceous</td>
<td>Subbit.</td>
<td>4.5-12</td>
</tr>
<tr>
<td>Beluga-Yentna</td>
<td>15,500</td>
<td>Tyonek, Beluga, &amp; Sterling</td>
<td>...do....</td>
<td>...do...</td>
<td>6</td>
</tr>
<tr>
<td>Kenai</td>
<td>5,200</td>
<td>Beluga &amp; Sterling</td>
<td>...do....</td>
<td>Subbit.</td>
<td>0.8-6</td>
</tr>
<tr>
<td>Herendeen Bay</td>
<td>2,800</td>
<td>Chignik &amp; Bear Lake</td>
<td>Cretac. &amp; Tertiary</td>
<td>Bitu...</td>
<td>0.6</td>
</tr>
<tr>
<td>Nenana</td>
<td>2,600</td>
<td>Suntrana &amp; Healy Ck.</td>
<td>Cretaceous</td>
<td>Subbitu.</td>
<td>6</td>
</tr>
<tr>
<td>Eagle-Circle</td>
<td>2,100</td>
<td>...do....</td>
<td>...do....</td>
<td>...do...</td>
<td>6.7</td>
</tr>
<tr>
<td>Matanuska</td>
<td>1,800</td>
<td>Chickaloon</td>
<td>...do....</td>
<td>Bitum.-anthra.</td>
<td>0.6-12</td>
</tr>
<tr>
<td>Bering River</td>
<td>780</td>
<td>Kushtaka</td>
<td>...do....</td>
<td>...Do...</td>
<td>1.8-9</td>
</tr>
<tr>
<td>Lisburne</td>
<td>550</td>
<td>Kapaloak &amp; Corwin</td>
<td>Paleozoic &amp; Cretac.</td>
<td>Bitum...</td>
<td>2</td>
</tr>
<tr>
<td>Little Tonanza</td>
<td>520</td>
<td>Unnamed</td>
<td>...do....</td>
<td>...do...</td>
<td>1.5-6</td>
</tr>
<tr>
<td>Chignik</td>
<td>390</td>
<td>Chignik</td>
<td>Cretaceous</td>
<td>Subbitu.</td>
<td>2</td>
</tr>
<tr>
<td>Nulato</td>
<td>390</td>
<td>Kaltag</td>
<td>...do....</td>
<td>...do...</td>
<td>1.2</td>
</tr>
<tr>
<td>Rampart Pass.</td>
<td>260</td>
<td>Unnamed</td>
<td>Tertiary...</td>
<td>...do...</td>
<td>1.5</td>
</tr>
<tr>
<td>Broad Pass.</td>
<td>100</td>
<td>...do....</td>
<td>...do....</td>
<td>Subbitu.</td>
<td>1.5-3</td>
</tr>
<tr>
<td>Chicago Creek</td>
<td>100</td>
<td>Kugruk</td>
<td>...do....</td>
<td>Lignite.</td>
<td>24</td>
</tr>
<tr>
<td>Jarvis Creek</td>
<td>100</td>
<td>Healy Ck...</td>
<td>...do....</td>
<td>...do...</td>
<td>3</td>
</tr>
</tbody>
</table>

*Shown on figure 1.*

Source: Reference 268, 273.

RAMPART COALFIELD

The Rampart Coalfield covers an area of approximately 260 km² in central Alaska. Coal occurs in an unnamed Tertiary coal-bearing unit that ranges in rank from subbituminous to bituminous. The coalbeds are less than 1.5 m thick and are steeply dipping.
EAGLE-CIRCLE COALFIELD

The Eagle-Circle Coalfield occupies an area of 2,100 km² along the upper Yukon River in eastern Alaska. Coal occurs in an unnamed Tertiary coal-bearing unit and ranges in rank from subbituminous to bituminous. Minor amounts of coking coal occur in the Eagle area of this coalfield. The coalbeds are generally thin with one 6.7 m thick bed occurring in broad, open folds.

NENANA COALFIELD

The Nenana Coalfield covers an area of approximately 2,600 km² trending east-west along the northern flank of the Alaska Range in central Alaska. Coal primarily occurs in the Suntrana and Healy Creek Formations of the Tertiary coal-bearing unit, which is up to 900 m thick. The coal is subbituminous in rank and occurs as seams up to 18 m thick. The coalbeds occur in moderately dipping fault blocks and gentle folds.

The bulk of Alaska's coal production is currently mined from this coalfield. Three seams in the Suntrana Formation, the 3, 4, and 6, each averaging 6 m thick, are being mined at the Usibelli Coal Mine.

JARVIS CREEK COALFIELD

The Jarvis Creek Coalfield makes up the eastern portion of the Nenana Coalfield. The field occupies an area of less than 100 km². Coal occurs in the Tertiary Healy Creek Formation and is subbituminous in rank. The coalbeds are gently dipping and are less than 3 m thick in an isolated structural basin.

LITTLE TONZONA COALFIELD

The Little Tonzona Coalfield occupies an area of 520 km² in southwestern Alaska. Coal occurs in an unnamed Tertiary coal-bearing unit and is subbituminous in rank. The coalbeds are gently dipping and are less than 3 m thick in an isolated structural basin.

BROAD PASS COALFIELD

The Broad Pass Coalfield occupies an area of 100 km² in northern south-central Alaska. Coalbeds occur in an unnamed Tertiary coal-bearing unit. Coal ranges from subbituminous to lignite in rank. The beds range in thickness from 1.5 to 3 m and occupy a narrow graben structure.

BELUGA-YENTNA COALFIELD

The Beluga-Yentna Coalfield occupies an area of 15,500 km² in south-central Alaska. Coal occurs primarily in the Cretaceous Tyonek Formation with lesser deposits in the Cretaceous Beluga and Sterling Formations. Coal ranges from subbituminous to lignite in rank. The coalbeds are generally 6 m thick with one bed reported to be more than 15 m thick. Beds are in flat-lying to broad, gentle folds with minor localized faults.

Currently, this coalfield has the highest development potential of recoverable coal resources in Alaska (table 1). Development work is being done in this field with the possibility of two mines being opened in the early 1990's.

MATANUSKA COALFIELD

The Matanuska Coalfield occupies an area of approximately 1,800 km² in south-central Alaska. Coal occurs in the 900 m thick Tertiary Chickaloon Formation. Coal ranges in rank from bituminous in the southwest to anthracite in the northeast with some high-quality coking-quality coal occurring in the Chickaloon area. Up to 30 coalbeds range from 0.6 to 12 m thick in an east-west trending canoe-shaped syncline. This coalfield ranks second in historic coal production with 8.3 Mmt of bituminous coal mined prior to 1968 (266).
KENAI COALFIELD

The Kenai Coalfield occupies an area of over 5,200 km² covering the western Kenai Peninsula and extending offshore beneath Cook Inlet. Coal occurs in the Cretaceous Beluga and Sterling Formations and are subbituminous in rank. The coalbeds range from 0.8 to 6 m thick and are flat-lying to gently dipping in structure.

BERING RIVER COALFIELD

The Bering River Coalfield occupies an area of 780 km² in south-central Alaska. Coal occurs in the Cretaceous Kushtaka Formation and ranks from bituminous to anthracite with minor amounts of coking coal present. The coalbeds range from 1.8 to 9 m thick, occur in pod- or lens-shaped structures and are structurally complex.

CHIGNIK COALFIELD

The Chignik Coalfield occupies an area of 390 km² in the Alaska Peninsula. Coal occurs in the Cretaceous Coal Valley Member of the Chignik Formation, ranging from bituminous to subbituminous in rank. The beds are less than 2 m thick and have moderate dips.

HERENDEEN BAY COALFIELD

The Herendeen Bay Coalfield occupies an area of 2,800 km² on the Alaska Peninsula. Coal occurs in the Cretaceous Chignik and Tertiary Bear Lake Formations. Coal in the Chignik Formation is bituminous in rank and in the Tertiary Bear Lake Formation is lignite in rank. Coal occurs in 17 beds that are usually less than 0.6 m thick and are moderately folded and faulted.

INFRASTRUCTURE AND INSTITUTIONS AFFECTING COAL MINING IN ALASKA

Infrastructural and institutional factors that affect coal mining in Alaska include utilities, transport, leases, taxation, and markets inside and outside of Alaska.

UTILITIES

Utilities serving Alaska’s communities include electricity, natural gas, oil, water, and coal.

Electricity

Alaska’s electricity is provided by centralized systems along the area from Fairbanks to Homer, and by decentralized systems in the rural areas. Electrical power is generated by utilities, industry, the military, and independent operators in rural and isolated areas. The utilities account for 67% (1,374 MWe) of the installed capacity, industry for 23% (485 MWe), and national defense 10% (205 MWe) (6). Figure 2 shows the electrical transmission systems in Alaska.

Natural Gas

Alaska’s natural gas is produced in two areas of the State: the northern coastal region at Barrow and Prudhoe Bay, and the Cook Inlet region. The northern coastal region contains 1,024 trillion m³ of proven reserves, and the Cook Inlet region contains 106 trillion m³ of proven reserves (6). Cook Inlet gas is used for thermal and electrical generation for residential, commercial, and industrial users in south-central Alaska. Natural gas from the South Barrow gasfield supplies Point Barrow.
Oil

Alaska’s oil is not extensively used by Alaska’s larger utilities because they are supplied with natural gas. Nearly all of Alaska’s oil is exported. Some oil is refined in Alaska at Nikiski on the Kenai peninsula and at Fairbanks. Diesel fuel is used extensively in rural communities for generation of electricity.

Water

Alaska’s large hydropotential is largely untapped and undeveloped. Currently, hydropower is being produced at Eklutna Lake north of Anchorage for use along the Fairbanks-Homer area, and at Snettisham Lake in southeast Alaska, providing power for the Juneau area.

Coal

Alaska has identified and hypothetical coal resources that exceed 6.35 trillion mt of coal (273). Table 1 lists the identified and hypothetical resources of the major coalfields in the State.

Coal in Alaska is mostly bituminous in rank, with occurrences of anthracite-grade coal in the Matanuska and Bering River Coalfields. Coking coal is present in minor amounts in the Northern Alaska, Eagle-Circle, Nulato, Matanuska, and Bering River Coalfields. The Matanuska Coalfield contains the highest quality coking coal in Alaska (329).

TRANSPORT

Transportation infrastructure and the major population centers developed in response to the economic growth in mines, petroleum, timber, defense, fisheries, and government. The population centers are the hubs of the transportation networks by which people and goods are moved into and out of the rural communities. Thus, Alaska uses modes of transportation that in turn control the development of the State. Alaska’s transportation system is extremely diverse because it must move people and goods over great distances using land, air, and water.

Railroad

Alaska is served by one operating railroad, the Alaska Railroad, owned and operated by the State of Alaska. Construction of the Alaska Railroad was authorized by the U.S. Congress in 1914 and completed in 1924. The railroad was purchased by the State of Alaska in 1985.

The railroad is a vital all-weather link connecting the port cities of Whittier, Seward, and Anchorage with Fairbanks and the coal deposits of the Nenana Coalfield. The railroad has 750 km of track running from Seward to Fairbanks via Anchorage (fig. 3) and also has 105 km of branch lines, some connected with the Nenana Coalfield.

At the present time, the Alaska Railroad is the major coal transport system within Alaska. The railroad connects the Usibelli Coal Mine near Healy to the Fairbanks-Nenana Valley area markets, to the Anchorage-Cook Inlet area, and to the Seward coal-loading facilities. Trucks transport the coal from the railroad yards and coal-holding facilities to individual users not along the railroad (425).

Road

Early roads and trails in Alaska were constructed to haul supplies to mining camps. These early routes followed Native trails or were constructed by miners, the U.S. Army, or the Alaska Road Commission. The Alaska road system contains 6,000 km of highways, roads, and streets (as shown on figure 3). The system connects the major population centers and provides access to the continental United States via the Alcan Highway. Jurisdiction of the roads is controlled by the Federal Government, the State of Alaska, and local governments.
FIGURE 2. — Electrical transmission systems in Alaska (Source: Alaska Power Administration)
Air

Alaska's air transport system provides a vital link between the major population centers and rural Alaska. Alaska's large and sparsely populated land mass and the limited availability of alternative transport in rural areas play a major role in the development of air transport. Air transport has proven extremely flexible, diverse, and unique in meeting the requirements in Alaska.

Alaska has approximately 1,000 airports: 195 in private use and 805 open to the public. International and regional airports such as those at Anchorage, Fairbanks, Juneau, Nome, and Deadhorse meet Federal Aviation Administration (FAA) requirements. Some smaller community airports and airstrips are mainly unimproved and may not meet FAA requirements. Many lakes throughout the State are used by floatplanes and are not under the jurisdiction of the FFA.

Marine Highway

The Alaska Marine Highway System serves some coastal communities in southeast Alaska that are not connected by road or railroad networks. Service is provided to those communities along Alaska's coastline from Ketchikan to Seward. Anchorage, Whittier, and Valdez are the major ice-free port cities in central Alaska. The northern port cities, including Nome and Barrow, and the interior port cities of Bethel and Fairbanks, are seasonal, depending upon commercial activity and ice-free conditions.

Alaska relies heavily on marine transport as its primary means of cargo movement within the State and also to and from markets in the west coast of the United States and in foreign countries. Transported materials include bulk fertilizer, coal, consumer goods, food, minerals, petroleum, seafoods, and wood products.

River

The first extensive transport system in Alaska was by boat along the State's major rivers. This influenced the settlement of Alaska, especially along the Yukon and Kuskokwim Rivers. Alaska's rivers are used to transport low-value, high-volume materials (gravel, fuel oil) to communities during the ice-free summer months.

Coal Transportation Modes

Coal transport modes include river and ocean-going barges, ocean-going ships, trucks, railroad coverage, and powerlines (delivering coal-produced electricity from a mine-mouth powerplant). Future coal transport modes could include the use of slurry pipelines and belt conveyors. In Alaska, there is great potential for the use of any combination of the above transportation modes in moving coal from the mine to the user.

To efficiently develop coal mines within Alaska, the State's transportation network must greatly expand. Developing a transportation network throughout Alaska will play an important part in the development of Alaska's coal and other mineral resources. Although some known coal deposits occur close to existing transportation corridors, the bulk of the coal resources occur within regions having little or no transportation infrastructure.

LEASING (47, 51, 137, 300, 420)

The Federal Government and the State of Alaska lease lands in Alaska for coal development. The Federal Government has issued 1 lease and the State of Alaska has issued 44 active leases to 12 parties as of January 6, 1986 (table 4).

Federal

Coal leases in Alaska are offered on federally managed lands under the Federal Coal Leasing Amendments Act of 1976 (amending 30 U.S.C. 181 et. seg.). Coal on Federal lands is leased competitively at not less than fair market value. The major provisions of the Federal coal-leasing program are listed below.
FIGURE 3. — Major railroad and highway systems in Alaska.
An exploration license is required and is issued for a 2-year period. Although the license may not be extended, it can be terminated and then reissued. This license carries no preferential right to a lease.

Rentals of not less than $1.21/ha per year are required. Minimum royalty rate (based on gross value at the mine mouth) of 12.5% is imposed for surface mining, and a minimum royalty rate of 8% is imposed for underground mining. In certain cases of underground mining, a minimum royalty rate of no less than 5% may be allowed.

Lease terms are for 20 years and for so long thereafter as coal is produced annually in commercial quantities. Leases not producing in commercial quantities at the end of 10 years are terminated.

At least half the hectares offered competitively in any 1 year must be leased under a deferred-bonus bidding system, payable in five equal installments, making it easier for small companies to compete. No person or corporation may hold more than 40,470 ha of leases. A lease bond shall be furnished for each lease in an amount determined by the authorized officer.

A portion of all Federal coal royalties must be paid to the State in which the leased lands are located to provide public services and to mitigate community impact. Alaska is the only State that is entitled to 90% of all royalties collected by the Federal Government on lands within the State; other States are entitled to 50%. A reasonable number of leasing tracts must be reserved and offered to lease to public bodies and/or small businesses in compliance with the Small Business Act.

State

The State of Alaska offers lands for leasing for the development of coal under the State's coal-leasing program as contained in Alaska Statute 38.05.150 (51). The major provisions of the coal-leasing program are listed below.

No person may hold more than 18,649 ha (two townships) of coal leases and/or permits on State lands. Additional land (up to 2,072 ha) may be leased if the applicant can demonstrate that the additional lands are economically necessary to that business operation. Coal lands are divided into tracts of 16 ha or multiples of 16 ha for leasing purposes.

Prospecting permits may be issued when prospecting or exploration work is necessary to determine the existence or workability of coal deposits. Prospecting permits may not exceed 2,072 ha and may not be issued for more than a 2-year term. If within 2 years the permittee demonstrates that the lands contain coal in commercial quantities and submits a coal recovery plan, the permit is converted to a lease. No specified lease term is required by State statute. Leases are continued indefinitely so long as there is diligent development and continued operation of the mine. If not obtained through conversion of prospecting permits, leases may be awarded to qualified applicants either through competitive bidding or noncompetitive means as determined by the commissioner, Department of Natural Resources (DNR).

The minimum royalty rate that may be charged is 6 cents/mt; no ceiling on the royalty rate is specified. Actual royalty rates charged have ranged from 6 cents/mt to 39 cents/mt.

Until 1978, royalty rates were usually 5.5 cents/mt to 17 cents/mt. Since early 1979, most royalty rates have been set at 39 cents/mt. Royalty rates, once established, are effective for a period of not more than 20 years, at which time they must be reassessed and may be renegotiated at the discretion of the commissioner. Although several of the State leases have been in existence for over 20 years, their royalty rates have not been readjusted since the inception of the lease. Rental fees may not be less than 10 cents/ha for the first year of the lease, increasing to a 20 cents/ha minimum for the second through fifth years, and with rentals not less than 40 cents/ha for each year thereafter.

The commissioner may waive, suspend, or reduce the royalty or rental on an entire leasehold or any tract

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3 This allocation is established in Public Law 94-579, Federal Land Policy and Management Act of 1976, Section 317. Alaska Statute (AS) 43.05.210 earmarks 37.5% of these revenues for the construction and maintenance of roads or for the support of public education. The other 52.5% may be allocated by the legislature for whatever purposes it chooses.
TABLE 4. - Active coal leases in Alaska

<table>
<thead>
<tr>
<th>Lessee</th>
<th>Property</th>
<th>Coalfield</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FEDERAL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delta Coal Co.</td>
<td>Little Gold Creek...</td>
<td>Jarvis Creek.</td>
</tr>
<tr>
<td>Am. Exploration &amp; Mining Co.</td>
<td>Evan Jones............</td>
<td>Matanuska.</td>
</tr>
<tr>
<td>Beluga Coal Co.</td>
<td>Capps, Center Ridge, Lone Ridge, &amp; Threemile Ck. deposits.</td>
<td>...do...</td>
</tr>
<tr>
<td>Grey, H.J., &amp; L.M.</td>
<td>Coffee Creek........</td>
<td>Beluga.</td>
</tr>
<tr>
<td>Rock Springs Royalty Co.</td>
<td>Knob Creek Complex, North &amp; South Evan Jones Mines.</td>
<td>...do...</td>
</tr>
<tr>
<td>Shallit, G.B., &amp; M.L., and Brigham Young University.</td>
<td>Cripple Creek Mine, Cripple Creek West.</td>
<td>Nenana.</td>
</tr>
<tr>
<td>Usibelli Coal Mine, Inc.</td>
<td>Caribou &amp; Moose Seams, Roth-Taylor Mine, Upper Healy Creek Mine, Usibelli Coal Mine.</td>
<td>...do...</td>
</tr>
</tbody>
</table>

Source: Reference 8.

whenever, in the commissioner's judgment, it is necessary to do so to promote development or when the lease cannot be successfully operated under Alaska Statute 38.05.140(d).

Lease revenues are allocated in the following manner: 25% to the Permanent Fund, 5% to the Renewable Resource Fund, 1.5% to the Mental Health Fund, 0.5% to the Public School Fund, and the remainder to the General Fund. Prior to the fulfillment of the State's obligation on June 30, 1980, 2% had been allocated to the
Alaska Native Claims Settlement. All monies allocated to the Permanent Fund go directly into that fund. Monies allocated to the other funds must, in turn, be appropriated to those funds by the legislature.

TAXATION

Both the Federal Government and the State tax coal mining in Alaska (51).

Federal

The Federal Government has two major aspects in Federal tax policy that affect coal production: the coal depletion allowance and impact-related production tax.

Coal Depletion Allowance

The coal depletion allowance compensates a coal production company for the declining value of its property as coal is produced. Depletion is the conceptual equivalent of depreciation. It is a non cash "expense" that reduces taxable income, and hence is a tax liability for a firm. Because depletion reduces its tax payments, the firm has more cash to invest in its business. A company may be showing little or no income, but it may enjoy a strong cash position because of the depletion allowance.

When a property is leased, the tax benefit of the depletion allowance is shared between the firm mining the land and the lessor. Depletion is calculated for Federal taxes on a cost or percentage basis. The firm is required to use the method that provides the largest deduction. Under the cost method, an initial estimate of the maximum unit production of a coal property is determined. This amount is divided into the adjusted cost basis of the property to determine the amount of cost depletion per unit. This per unit cost is multiplied by the amount of annual production to determine the amount of depletion allowable for that year.

For instance, if a property could be expected to produce 110 Mmt of coal and the firm paid $110 million in lease bonuses for the economic rights to the resource, the cost depletion allowed would be $1.00/mt. If the firm mines 11 Mmt in its next year, then it could reduce its taxable income by $11 million in depletion. As estimates of the productive capacity of the field change, the amount of cost depletion per unit is adjusted.

A simpler method of calculating depletion is as a percentage of revenues. Using the percentage depletion method, an operator's allowance is defined as a specified percentage of its revenues. In the case of coal, the law specifies a depletion allowance of 10%. In other words, 10% of production revenues may be subtracted from total revenues in a calculation of taxable income.

Impact-Related Taxes

There are two coal production taxes levied by the Federal Government that are intended to relieve specific adverse impact on coal production. These are the taxes for Black Lung Disease Fund and the Abandoned Mine Land Fund. Receipts from the former tax are dedicated to the relief of black lung victims. This tax is levied at a rate of 55 cents/mt for underground coal and 28 cents/mt for strip-mined coal. In addition, there is a 72 cents/mt reclamation tax. Proceeds from this tax are applied to solving the problems created by unsound mining practices that were followed before the passage of the Surface Mining and Reclamation Act in 1977.

State Mining License Tax

In addition to the State corporate income tax, Alaska has one other levy which directly affects coal companies: the Mining License Tax (MLT). The provisions of the MLT are found in Alaska Statute 43.65 (51). The MLT is a tax on the net income from mining operations and lease royalties. In the MLT, mining is defined as "the ordinary treatment process (defined as "cleaning, breaking, sizing, and loading for shipment") normally applied by mine owners and operators to obtain the commercially marketable product."

The MLT is levied on the net income from mining operations and lease royalties (to private parties). If a
company or lessor has more than one income-producing property, it must be aggregated for tax purposes. No tax is levied on a firm with a net income less up to $40,000. For firms with net incomes over $40,000, the following schedule applies:

<table>
<thead>
<tr>
<th>Net Income</th>
<th>Tax Rate Applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>From $40,001 to $50,000</td>
<td>3%</td>
</tr>
<tr>
<td>From $50,001 to $100,000</td>
<td>$1,500 plus 5% of excess over $50,000</td>
</tr>
<tr>
<td>Over $100,000</td>
<td>$4,000 plus 7% of excess over $100,000</td>
</tr>
</tbody>
</table>

Net income is calculated differently for mining income and royalty income. The net income from a mining operation is equal to the revenues from coal sales less deductions for operating expenses and an allowance for depletion of the resource. The lessor's net income from royalty payments is calculated as the revenues from royalties less the lessor's share of the depletion allowance.

The total amount of depletion allowable under the MLT is 10% of the gross income (revenues) from the property, not to exceed 50% of net income calculated without respect to depletion. The total amount of depletion is divided between the mine operator and the lessor, based on the amount of royalty payments. The lessor is able to subtract 10% of royalty payments to compute the net income and is allowed no other deductions. The mining operator takes the remaining depletion allowance.

Mine operators and lessors are exempt from the MLT for 3.5 years after production begins from a new mining operation. The DNR certifies when such production begins. Private lessors, primarily the Native corporations, would not be taxed for rents received prior to production or during production. Their tax liability is limited only to royalties received after the 3.5-year exemption period. Obviously, none of these provisions applies to royalty income received by the State.

MARKETS IN ALASKA

The Alaskan markets for coal are those that currently use coal for power generation, and those areas that have the potential for future use of coal.

Coal users at the present time are located in the Fairbanks-Nenana Valley area and the Anchorage-Cook Inlet area, which constitute the railbelt area. The users include the military, which uses coal for space heating and thermal generation at its bases in Eielson, Clear, and Wainwright. Nonmilitary users include the University of Alaska--Fairbanks, the thermal electric plant in Healy that supplies electricity to the Fairbanks-Homer areas, and the Fairbanks thermal electric plant that supplies local electricity needs (164).

Potential market areas are the communities dependent upon diesel electrical generation, including those in the Copper River Valley, along the Yukon and Kuskokwim Rivers, and in northern Alaska. Communities close to coal deposits could be potential users under the right economic conditions. Additional coal-fired powerplants within the Fairbanks-Homer area (164) represent one alternative to the demise of the proposed Susitna hydroelectric dam. These could include mine-mouth powerplants in the Nenana and/or Matanuska Coalfields.

MARKETS OUTSIDE ALASKA

Exports of Alaskan coal started in 1984 with the first shipment of coal to the Republic of Korea. The Usibelli Coal Mine which is near Healy made three shipments of steam coal totaling 40,553 mt to KEPCO (164), and shipped a total of 679,000 mt in 1985 (80) in its first year of a 15-year contract. Competing Canadian and Australian producers also supplying KEPCO with coal will require negotiations for a new Usibelli contract if coal prices are to remain competitive. The Republic of Korea is currently developing new powerplants that can use Alaskan (low sulfur) coal. These powerplants could develop an increased demand for Alaskan coal.

Other Pacific Rim countries including Japan and Taiwan are potential markets for Alaskan steam coal because they import large quantities of coal and other fuels to meet their energy demands. The Republic of Korea and Japan are considering the cutback or shutdown of domestic coal production. This would leave even more room
for Alaskan coal to increase its share of coal imported into the Republic of Korea and Japan. These potential markets are being pursued actively by Alaskan coal companies and the State of Alaska.
ABSTRACTS OF SELECTED COAL DEPOSITS IN ALASKA

As previously stated, the largest section of this publication consists of single-page site-specific deposit summaries for 247 selected coal deposits in Alaska. Table 5 serves as an index for the following section of site-specific deposit abstracts. Deposit locations are shown on figure 4 (in pocket).
<table>
<thead>
<tr>
<th>Map No.¹</th>
<th>Deposit name</th>
<th>Map No.¹</th>
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<tbody>
<tr>
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<td>Point Collier.</td>
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<td>41.</td>
<td>Chicago Creek.</td>
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<td>Kugrua River.</td>
<td>43.</td>
<td>Sinuk Coal Mine.</td>
</tr>
<tr>
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<td>Meade River Prospect.</td>
<td>48.</td>
<td>Coal Creek-Dahl River.</td>
</tr>
<tr>
<td>15.</td>
<td>Ikpikpuk River.</td>
<td>53.</td>
<td>Wolf Creek.</td>
</tr>
<tr>
<td>17.</td>
<td>Colville River.</td>
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<td>Copper Creek Coal.</td>
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<td>Tepsako River.</td>
<td>60.</td>
<td>Drew Mine.</td>
</tr>
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<td>Deadfall Syncline.</td>
<td>64.</td>
<td>Melozitna River.</td>
</tr>
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<td>27.</td>
<td>Cape Beaufort.</td>
<td>65.</td>
<td>Quartz Creek.</td>
</tr>
<tr>
<td>28.</td>
<td>Cape Sabine.</td>
<td>66.</td>
<td>Poorman Creek II.</td>
</tr>
<tr>
<td>32.</td>
<td>Cape Lewis.</td>
<td>70.</td>
<td>Nahochlatiltten Mine.</td>
</tr>
<tr>
<td>35.</td>
<td>Cape Thompson.</td>
<td>73.</td>
<td>Nulato Coal Bed.</td>
</tr>
<tr>
<td>38.</td>
<td>Hockley Hills-North</td>
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<td>Adolph Muller Prospect.</td>
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<tr>
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</tr>
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<td>Mission Creek.</td>
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<td></td>
</tr>
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</tr>
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<td>Wilson Creek.</td>
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</tr>
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<td>Tramway Bar.</td>
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</tr>
<tr>
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<td></td>
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<tr>
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<td></td>
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<td>123...</td>
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<td>Casement Glacier.</td>
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<td>Upper Healy Creek Mine.</td>
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<td>Roth-Taylor Mine.</td>
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<td>Cripple Creek Mine.</td>
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¹Map numbers refer to locations on figure 4.
TABLE 5. - Deposit abstract index of selected coal deposits in Alaska—Continued

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<td>Rawson Mine.</td>
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<td>Hartline Mine.</td>
<td>147..</td>
<td>Houston West.</td>
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<td>Trout Creek.</td>
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<td>Yentna River.</td>
</tr>
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<td>Clear Creek 2.</td>
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<td>Susitna Station.</td>
</tr>
<tr>
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<td>Lake Charlotte.</td>
<td>150..</td>
<td>Eagle River Mine.</td>
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<td>Bering River Coal N.</td>
<td>151..</td>
<td>Alaska Peat.</td>
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<td>Leeper Tunnel Site.</td>
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<td>Capps Deposit.</td>
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<td>Tokun Creek.</td>
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<td>Center Ridge Deposit.</td>
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<td>Chickaloona.</td>
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<td>Thompson Valley 3.</td>
<td>175..</td>
<td>Johnson Tunnel.</td>
</tr>
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<td>173..</td>
<td>Whalers Creek Mine.</td>
<td>176..</td>
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<td>Chignik Bay Coal.</td>
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*Map numbers refer to locations on figure 4.*
LOCATION-OWNERSHIP

Quadrangle...... Wainwright.
Mining district.. Do.
Coalfield....... Northern Alaska.
Elevation....... 7.5 m.
Topography...... Beach.
Domain.......... Native.

Owner........... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............ Do.
Thickness....... Do.
Depth........... Outcrop.

GEOLOGY

Formation age....... Cretaceous.
Rock relationships... Deposit covered
by Beaufort Sea.
Coking ability....... Not reported.
Heating value....... 10,000-12,920 Btu/lb (145).
Composition, %:
Ash................. 3.8-4.7.
Sulfur............. 0.5-0.6.
Moisture........... 18.8.
Volatile matter... 32.5-42.0.
Fixed carbon....... 44.9-58.0.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. Less than 5 km.
Road requirement......... Do.
Distance to power supply.. Do.

Process rate.......... Unknown.
Product type.......... Coal.
Distance shipped...... 3.2 km.
Destination.......... Wainwright.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 174, 185, 265, 273, 316, 320, 358.

USGS quadrangle maps... Wainwright, C-2.
USBM sequence number... 0020020001.

24
KUK RIVER 1

Map No: 2
Alternate names: Wainwright Mine, Kuk Lagoon
Commodity: Subbituminous B

LOCATION-OWNERSHIP

Quadrangle: Wainwright
Mining district: Do.
Coalfield: Northern Alaska.
Elevation: 15 m.
Topography: Gentle slope.
Domain: Native.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Corwin.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: S 3° E, 7° W.
Coal seam average dimensions, m:
  Length: 308.
  Width: Not reported.
  Thickness: 1.5.
  Depth: Outcrop.

Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore. Shale lies under ore.
Coking ability: Not reported.
Heating value: 9,760-12,810 Btu/lb (145).
Composition, %:
  Ash: 3.2-4.0.
  Sulfur: 0.3-0.5.
  Moisture: 20.7.
  Volatile matter: 31.8-41.7.
  Fixed carbon: 44.3-58.3.

DEVELOPMENT

Current status: Past producer.
Type of operation: Surface-underground.
Year of discovery: 1889.
Discovery method: Unknown.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Several hundred metric tons per year.

Distance to water supply: 0.3 km.
Road requirement: Do.
Distance to power supply: 12 km.
Process rate: Unknown.
Product type: Coal.
Distance shipped: 12 km.
Destination: Wainwright.

PUBLISHED RESERVES-RESOURCES

Kuk River (Wainwright) area: Reserves; 1,457.7 million short tons (122).
  47 million short tons (strip payable).
REFERENCES


USGS quadrangle maps... Wainwright, C-2.

USBM sequence number... 0020020002.
KUK RIVER 2

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: On east shore of Kuk Lagoon 22.5 km Southeast of Wainwright.

Meridian: Umiat.

Tract: Sec. 35, T 13 N, R 31 W.

Latitude: 70°26′36″ N.

Longitude: 159°48′30″ W.

GEOLOGY

Formation name: Corwin.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Strike and dip of coal seam: S 28° W, 5° E.

Coal seam average dimensions, m:

- Length: Not reported.
- Width: Do.
- Thickness: 1.2.
- Depth: Outcrop.

Formation age: Cretaceous.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Coking ability: Not reported.

Heating value: 9,470-13,100 Btu/lb (415).

Composition, %:

- Ash: 2.0-3.1.
- Sulfur: 0.2-0.4.
- Moisture: 24.3-25.7.
- Volatile matter: 30.0-41.9.
- Fixed carbon: 42.3-58.5.

DEVELOPMENT

Current status: Past producer.

Type of operation: Surface-underground.

Year of discovery: 1889.

Discovery method: Unknown.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Several metric tons per year.

Distance to water supply: 0.1 km.

Road requirement: Do.

Distance to power supply: 22.5 km.

Process rate: Unknown.

Product type: Coal.

Distance shipped: 22.5 km.

Destination: Wainwright.

PUBLISHED RESERVES-RESOURCES

Kuk River (Wainwright) area: Reserves; 1,457.7 million short tons (122).

47 million short tons (strippable).
REFERENCES


USGS quadrangle maps... Wainwright, B-2.

USBM sequence number... 002002003.
KUK RIVER 3

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... Wainwright.
Mining district.. Do.
Coalfield....... Northern Alaska.
Elevation....... 2 m.
Topography...... Gentle slope.
Domain.......... BLM-administrated.

General location.. On east shore of Kuk Lagoon 26 km SE of Wainwright.

Meridian......... Umiat.
Tract.......... Sec. 06, T 12 N, R 31 W.
Latitude......... 70°25'13" N.
Longitude....... 159°51'25" W.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of S 40° W, 5° W.
coal seam.
Coal seam average

dimensions, m.
Length.......... Not reported.
Width........... Do.
Thickness....... 1.6.
Depth.......... Outcrop.

Formation age....... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.

Coking ability..... Not reported.
Heating value....... 9,230-13,000 Btu/lb (48).

Composition, %:
Ash................ 2.3-3.1.
Sulfur............. 0.2-0.3.
 Moisture......... 26.7.
Volatile matter... 29.1-41.0.
Fixed Carbon...... 41.9-59.0.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. 1889.
Discovery method... Unknown.

Initial production.. Not reported.
Last production...... Do.
Past production..... 1940.
Annual production... Several metric tons per year.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. 26 km.

Process rate.......... Unknown.
Product type......... Coal.
Distance shipped...... 26 km.
Destination.......... Wainwright.

PUBLISHED RESERVES-RESOURCES

Kuk River (Wainwright) area: Reserves; 1,457.7 million short tons (122).
47 million short tons (Strippable).
REFERENCES


USGS quadrangle maps... Wainwright, B-2.

USBM sequence number... 0020020004.
KUGRUA RIVER

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: On north shore of Kugrua River 30 km east of Wainwright.
Meridian: Umiat.
Tract: Sec. 05, T 15 N, R 28 W.
Latitude: 70°40'37" N.
Longitude: 159°10'12" W.

LOCATION-OWNERSHIP

Quadrangle: Wainwright.
Mining district: Barrow.
Coalfield: Northern Alaska.
Elevation: 5 m.
Topography: Flat-lying.
Domain: BLM-administrated.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Corwin.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m:
Length: 305.
Width: Not reported.
Thickness: 1.7.
Depth: Outcrop.

Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Coking ability: Not reported.
Heating value: 8,780-12,410 Btu/lb (146).
Composition, %:
Ash: 7.7-12.0.
Sulfur: 0.3-0.7.
Moisture: 17.8-20.2.
Volatile matter: 31.9-44.3.
Fixed carbon: 40.5-55.9.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Prospect.

Year of discovery: Unknown.
Discovery method: Do.

Initial production: Not reported.
Past production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: Do.
Distance to power supply: 30 km.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

Strippable reserves: 27 million short tons (122).

REFERENCES

USGS quadrangle maps... Wainwright, C-1.
USBM sequence number: 0020020005.

31
KUGRA RIVER 1

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle: Wainwright.
Mining district: Barrow.
Coalfield: Northern Alaska.
Elevation: 5 m.
Topography: Low-lying.
Domain: BLM-administrated.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Corwin.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m.
Length: Do.
Width: Do.
Thickness: Do.
Depth: Outcrop.

Formation age: Cretaceous.
Rock relationships: Not reported.
Coking ability: Do.
Heating value: Do.
Composition, %: (1).
Ash: 7.7.
Sulfur: 0.7.
Moisture: Not reported.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: Unknown.
Discovery method: Do.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: Do.
Distance to power supply: 30 km.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 35, 185, 265, 273, 316, 320, 417.

USGS quadrangle maps... Wainwright, C-1.
USBM sequence number... 0020020007.

32
PEARD BAY

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location... Between Peard and Kugrua Bays.
Meridian......... Umiat.
Tract............ Sec. 35, T 17 N, R 26 W.
Latitude.......... 70°47'18" N.
Longitude........ 158°38'00" W.

GEOLOGY

Formation name..... Corwin.
Formation age....... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 9,140-12,410 Btu/lb (146).
Composition, %:
Ash.................. 6.2-7.7.
Sulfur............... 0.5-0.7.
Moisture............ 20.2.
Volatile matter... 32.6-44.3.
Fixed carbon....... 41.0-55.7.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. 32 km.
Process rate........... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

Peard Bay district: Reserves; 840.2 million short tons (122).

REFERENCES

USGS quadrangle maps... Meade River, D-5.
USBM sequence number... 0020030003.
MEADE RIVER 3

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location.. 18 km north of Meade River.
Meridian......... Umiat.
Tract............ Sec. 29, T 15 N, R 21 W.
Latitude.......... 70°37'38" N.
Longitude........ 157°22'50" W.

LOCATION-OWNERSHIP

Quadrangle....... Meade River.
Mining district.. Barrow.
Coalfield........ Northern Alaska.
Elevation......... 19 m.
Topography....... Low-lying.
Domain........... BLM-administrated.

Owner.......... Unknown.
Operator......... Do.

GEOLOGY

Formation name.... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............ Do.
Thickness........ Do.
Depth............ Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur............ Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw Prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.3 km.
Road requirement......... 0.6 km.
Distance to power supply.. 18 km.

Process rate............ Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 135, 185, 265, 273, 316, 320, 417.
USGS quadrangle maps... Meade River, C-3.
USBM sequence number... 0020030006.
MEADE RIVER 1

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle: Meade River.
Mining district: Barrow.
Coalfield: Northern Alaska.
Elevation: 8 m.
Topography: Low-lying.
Domain: BLM-administrated.

General location: 19 km north of Meade River.
Meridian: Umiat.
Tract: Sec. 28, T 15 N, R 21 W.
Latitude: 70°37'40" N.
Longitude: 157°18'50" W.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Corwin.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m:
Length: Do.
Width: Do.
Thickness: Do.
Depth: Outcrop.

Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore. Shale lies under ore.
Coking ability: Not reported.
Heating value: Do.
Composition, %:
Ash: Do.
Sulfur: Do.
 Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Prospect.
Year of discovery: Unknown.
Discovery method: Do.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: Do.
Distance to power supply: 19 km.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps: Meade River, C-3.
USBM sequence number: 0020030002.
MEADE RIVER PROSPECT

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: 23 km northeast of Meade River.
Meridian: Umiat.
Tract: Sec. 20, T 15 N, R 20 W.
Latitude: 70°38'00" N.
Longitude: 157°07'00" W.

GEOLOGY

Formation name: Corwin.
Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore. Shale lies under ore.
Coking ability: Not reported.
Heating value: 10,470-12,960 Btu/lb (146).
Composition, %:
- Ash: 2.9-3.5.
- Sulfur: 0.6-0.7.
- Moisture: 16.3.
- Volatile matter: 33.8-41.8.
- Fixed carbon: 47.0-58.2.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: Unknown.
Discovery method: Do.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Road requirement: 2.8 km.
Distance to power supply: 23 km.
Distance to water supply: 1.0 km.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 35, 135, 145-146, 174, 185, 265, 273, 316, 320, 417.

USGS quadrangle maps... Meade River, C-2.
USBM sequence number... 0020030005.
MEADE RIVER MINE 2

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location... 16 km northeast of Meade River.

Meridian...... Umiat.
Tract........... Sec. 07, T 13 N, R 20 W.
Latitude........ 70°30'00" N.
Longitude....... 157°08'00" W.

GEOLOGY

Formation name..... Corwin.
Formation age....... Cretaceous.
Shape of coal seam. Tabular.
Rock relationships. Sandstone lies over ore.
Shale lies under ore.
Strike and dip of coal seam. Not reported.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................. Do.
Sulfur.............. Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... 1,653 mt.
Annual production... Not reported.

Distance to water supply... 0.5 km.
Road requirement........ 6 km.
Distance to power supply... 16 km.
Process rate........... Unknown.
Product type.......... Coal.
Distance shipped....... 16 km.
Destination.......... Meade River.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 135, 185, 265, 273, 316, 320, 417.

USGS quadrangle maps... Meade River, C-2.
USBM sequence number... 0020030007.
MEADE RIVER MINE

Commodity: Subbituminous & bituminous

LOCATION-OWNERSHIP

General location: 0.8 km southwest of Meade River.

Meridian: Umiat.
Tract: Sec. 19, T 13 N, R 21 W.
Latitude: 70°27'47" N.
Longitude: 157°22'55" W.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Corwin.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Horizontal, 1° E.
Coal seam average dimensions, m:
- Length: Not reported.
- Width: Do.
- Thickness: 0.7.
- Depth: 7.6.

Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore.
- Shale lies under ore.
Coking ability: Not reported.
Heating values: 10,330-12,780 Btu/lb (146).
Composition, %:
- Ash: 4.8-5.6.
- Sulfur: 0.6-0.7.
- Moisture: 14.4.
- Volatile matter: 33.5-41.4.
- Fixed carbon: 47.3-58.6.

DEVELOPMENT

Current status: Past producer.
Type of operation: Surface-underground.

Year of discovery: 1923.
Discovery method: Unknown.

Initial production: 1943.
Last production: 1964.
Past production: Not reported.
Annual production: Up to 2,205 mt/yr.

Distance to water supply: 0.1 km.
Road requirement: 0.8 km.
Distance to power supply: 0.8 km.

Process rate: Unknown.
Product type: Coal.
Distance shipped: 96.5 km.
Destination: Barrow.

PUBLISHED RESERVES-RESOURCES

Measured reserves: 68,000 short tons (1946) (358).
REFERENCES


USGS quadrangle maps... Meade River, B-3.

USBM sequence number... 0020030001.
MEADE RIVER 2

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: 24 km southeast of Meade River.

Meridian: Umiat.

Tract: Sec. 12, T 11 N, R 21 W.

Latitude: 70°18'52" N.

Longitude: 157°04'50" W.

LOCATION-OWNERSHIP

Quadrangle: Meade River.

Mining district: Barrow.

Coalfield: Northern Alaska.

Elevation: 15 m.

Topography: Low-lying.

Domain: BLM-administrated.

Owner: Unknown.

Operator: Do.

GEOLOGY

Formation name: Corwin.

Formation age: Cretaceous.

Shape of coal seam: Tabular.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Coking ability: Not reported.

Heating value: Do.

Composition, %:

- Ash: Do.
- Sulfur: Do.
- Moisture: Do.
- Volatile matter: Do.
- Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.

Type of operation: Prospect.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 0.1 km.

Road requirement: Do.

Distance to power supply: 24 km.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Meade River, B-2.

USBM sequence number... 0020030004.

40
KIGALIK RIVER

Map No: 14
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Lookout Ridge.
Mining district.... Wainwright.
Coalfield........ Northern Alaska.
Elevation......... 152 m.
Topography....... Gently rolling.
Domain........... BLM-administered.

General location.. 22 km northeast of Birthday Pass.

Meridian......... Umiat.
Tract............. Sec. 20, T 01 S, R 17 W.
Latitude.......... 69°20’00" N.
Longitude........ 156°04’00" W.

Owner........... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam averages
dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... Do.
Depth............. Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash............... Do.
Sulfur............ Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........ Not reported.
Product type........ Do.
Distance shipped..... Do.
Destination......... Do.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. Onsite.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 398, 417.

USGS quadrangle maps... Lookout Ridge, B-1.

USBM sequence number... 0020110002.

41
IKPIKPUK RIVER

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: At Little Supreme Bluff.

Meridian: Umiat.
Tract: Sec. 30, T 03 N, R 12 W.
Latitude: 69°35'10" N.
Longitude: 154°55'50" W.

GEOLOGY

Formation name: Corwin.
Formation age: Cretaceous.

Rock relationships: Sandstone lies over ore.
Shale lies under ore.

Coking ability: Not reported.
Heating value: 9,970-12,440 Btu/lb (146).

Composition, %:
Ash: 6.3-20.9.
Sulfur: 0.3-0.6.
Moisture: 8.4-15.0.
Volatile matter: 26.0-34.0.
Fixed carbon: 41.3-59.1.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Prospect.

Year of discovery: 1930.
Discovery method: Exploration.

Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

Ikpikpuk River District: Reserves; 2,623.9 million short tons (122).
Strippable - 88 million short tons.
REFERENCES


USGS quadrangle maps... Ikpikpuk River, C-4.

USBM sequence number... 0020120005.
KILLIK RIVER

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Ikpikpuk River.
Mining district.. Colville.
Coalfield...... Northern Alaska.
Elevation....... 213 m.
Topography...... Gently rolling.
Domain........... Native.

Owner........... Unknown.
Operator......... Do.

General location.. 2 km south of
Puirlik Bluff.
Meridian......... Umiat.
Tract............. Sec. 18, T 05 S, R 08 W.
Latitude.......... 69°00'45" N.
Longitude........ 153°52'00" W.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
  Length........... Do.
  Width........... Do.
  Thickness....... 0.6.
  Depth........... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
                    Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,450-10,110 Btu/lb (146).
Composition, %:
  Ash................ 11.8-14.1.
  Sulfur............. 0.3.
  Moisture.......... 16.4.
  Volatile matter... 29.9-35.7.
  Fixed carbon...... 41.9-50.2.

DEVELOPMENT

Current status...... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1924.
Discovery method... Exploration.
Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement....... Do.
Distance to power supply.. Onsite.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 44, 145-146, 174, 185, 265,
273, 316, 320, 398, 417, 422.
USGS quadrangle maps.. Ikpikpuk River, A-2.
USBM sequence number.. 0020120003.
Map No: 17
Alternate names: None

COMMODITY

Commodity: Bituminous & subbituminous A

LOCATION-OWNERSHIP

Quadrangle........ Ikpikpuk River.
Mining district.. Colville.
Coalfield........ Northern Alaska.
Elevation......... 213 m.
Topography....... Gently rolling.
Domain............ Native.

General location.. Across from mouth of Kurupa River.
Meridian........... Umiat.
Tract............... Sec. 28, T 04 S, R 13 W.
Latitude........... 69°03'50" N.
Longitude........ 155°03'00" W.

OWNER

Owner.............. Unknown.
Operator............ Do.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls....... Bedding.
Strike and dip of East-west, 45° S.
c coal seam.
Coal seam average dimensions, m.
Length........... 6.1.
Width............ Not reported.
Thickness.......... 0.76.
Depth............ Outcrop.

Formation age....... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 11,825 Btu/lb (16).
Composition, %:
Ash................... 2.4.
Sulfur................. 0.7.
Moisture.............. 8.8.
Volatile matter... 33.7.
Fixed carbon...... 55.1.

DEVELOPMENT

Current status...... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1886.
Discovery method... Exploration.

Initial production... Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type......... Do.
Distance shipped..... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

Colville River District: Reserves; Bituminous - 7,222.3 million short tons (122).
Subbituminous - 11,489.1 million short tons.
Strippable reserves; Bituminous - 179 million short tons.
Subbituminous - 386 million short tons.
REFERENCES


USGS quadrangle maps... Ikpikpuk River, A-4.

USBM sequence number... 0020120004.
AWUNA RIVER 2

Commodity: Bituminous

LOCATION-OWNERSHIP

General location.. 76 km west of Puirlik Bluff.

Meridian............ Umiat.

Tract............. Sec. 07, T 05 S, R 16 W.

Latitude.......... 69°01'40" N.

Longitude......... 155°47'00" W.

GEOLOGY

Formation name..... Corwin.

Formation age...... Cretaceous.

Shape of coal seam. Tabular.

Rock relationships.. Sandstone lies over ore.

Coal controls... Bedding.

Shale lies under ore.

Strike and dip of Not reported.

coal seam.

Caking ability...... Not reported.

Coal seam average Heating value...... Do.

dimensions, m.

Composition, %:

Ash.............. Do.

Sulfur........... Do.

Moisture........ Do.

Volatile matter... Do.

Fixed carbon..... Do.

DEVELOPMENT

Current status..... Exploration prospect.

Distance to water supply.. 0.1 km.

Type of operation.. Prospect.

Road requirement........ Do.

Year of discovery.. 1924.

Distance to power supply.. Onsite.

Discovery method... Exploration.

Process rate............... Not reported.

Initial production.. Not reported.

Product type........... Do.

Last production..... Do.

Distance shipped...... Do.

Past production..... Do.

Destination........... Do.

Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 316, 320, 367, 398.

USGS quadrangle maps... Ikpikpuk River, A-5.

USBM sequence number... 0020120001.
AWUNA RIVER
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Lookout Ridge.
Mining district.. Colville.
Coalfield........ Northern Alaska.
Elevation....... 244 m.
Topography...... Gently rolling.
Domain.......... BLM-administrated.

General location.. 18 km south of
Birthday Pass.
Meridian......... Umiat.
Tract............ Sec. 18, T 04 S, R 19 W.
Latitude.......... 69°05'50" N.
Longitude......... 156°33'30" W.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............ Do.
Thickness....... 1.0.
Depth............ Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1924.
Discovery method... Exploration.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate.............. Not reported.
Product type............... Do.
Distance shipped......... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 316, 320, 398.

USGS quadrangle maps... Lookout Ridge, A-1.
USBM sequence number... 0020110001.

48
UTUKOK RIVER
Commodity: Subbituminous & bituminous

LOCATION-OWNERSHIP


General location.. 9 km from mouth of Utukok River. Meridian........... Umiat. Tract............ Sec. 28, T 8 N, R 41 W. Latitude.......... 70°00'49" N. Longitude........ 162°08'30" W.

GEOLOGY

Ash.................. 7.6-8.0. Sulfur............... 0.2-0.3. Moisture............ 4.6. Volatile matter... 36.2-41.2. Fixed carbon....... 51.6-58.8.

DEVELOPMENT

Current status..... Exploration prospect. Year of discovery.. 1923. Discovery method... Exploration. Distance to water supply.. 0.2 km. Road requirement........... 9 km. Distance to power supply.. Onsite. Process rate............ Not reported. Product type............ Do. Distance shipped...... Do. Destination.......... Do.

Published RESERVES-RESOURCES

Utokok River district: Reserves; 44,738.1 million short tons (Subbituminous) (122). 2,737.9 million short tons (Bituminous).
REFERENCES

USGS quadrangle maps... Wainwright, A-6.

USBM sequence number... 0020020006.
KOKOLIK RIVER

Map No: 21
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle... Point Lay.
Mining district.. Wainwright.
Coalfield...... Northern Alaska.
Elevation...... 5 m.
Topography...... Low-lying.
Domain.......... Native.

General location.. 3 km east of Point Lay.
Meridian......... Umiat.
Tract............ Sec. 30, T 05 N, R 42 W.
Latitude........ 69°45'16" N.
Longitude..... 162°58'40" W.

Owner............ Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............ Do.
Thickness........ Do.
Depth........... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................. Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.4 km.
Road requirement........ Do.
Distance to power supply.. 3 km.

Process rate............ Not reported.
Product type............ Do.
Distance shipped....... Do.
Destination................ Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Point Lay, D-2.
USBM sequence number... 0020090004.
TEPSAKO RIVER

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Point Lay.
Mining district.. Wainwright.
Coalfield........ Northern Alaska.
Elevation......... 17 m.
Topography....... Low-lying.
Domain............ Native.
Owner............. Unknown.
Operator.......... Do.

General location.. 29 km east of Point Lay.
Meridian.......... Umiat.
Tract............... Sec. 29, T 05 N, R 42 W.
Latitude........ 69°45'10" N.
Longitude......... 162°25'44" W.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... 3.
Depth............ Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 11,888-13,610 Btu/lb (415).
Composition, %:
Ash................ 2.8-3.1.
Sulfur................ 0.4.
Moisture........... 10.5.
Volatile matter... 37.3-43.0.
Fixed carbon...... 49.4-57.0.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. 29 km.

Process rate........ Not reported.
Product type.......... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 35, 117, 185, 265, 273, 316, 320, 415, 417.
USGS quadrangle maps... Point Lay, D-1.
USBM sequence number... 0020090003.
EPIZETKA ANTICLINE

Commodity: Bituminous

LOCATION-OWNERSHIP

General location: 8 km above the mouth of the Kukpawruk River.
Meridian: Umiat.
Tract: Sec. 21, T 03 N, R 45 W.
Latitude: 69°36'00" N.
Longitude: 162°56'40" W.

Quadrangle: Point Lay.
Mining district: Wainwright.
Coalfield: Northern Alaska.
Elevation: 17 m.
Topography: Low-lying.
Domain: Native.
Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Corwin.
Formation age: Cretaceous.
Shape of coal seam: Tabular.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Strike and dip of coal seam: Not reported.
Coking ability: Not reported.
Heating value: 11,910-13,600 Btu/lb (117).
Composition, %:
- Ash: 2.5-2.8.
- Sulfur: 0.4-0.5.
- Volatile matter: 31.5-35.9.
- Fixed carbon: 56.1-64.1.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: Unknown.
Discovery method: Do.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.
Distance to water supply: 0.3 km.
Distance to power supply: 19 km.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

117, 145, 174, 185, 265, 273, 316, 320.
USGS quadrangle maps: Point Lay, C-2.
USBM sequence number: 0020090005.
ESKIMO MINE

Map No: 24
Alternate names: Kukpowruk River

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

Quadrangle...... Point Lay.
Mining district.. Wainwright.
Coalfield....... Northern Alaska.
Elevation....... 61 m.
Topography...... Gently rolling.
Domain........... Native.

General location.. 52 km southeast of Point Lay.
Meridian......... Umiat.
Tract........... Sec. 28, T 01 S, R 44 W.
Latitude.......... 69°19'28" N.
Longitude........ 162°33'33" W.

Owner........... Morgan Coal Company.

FORMATION

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of S 85° W, 7-12° N.
coal seam.
Coal seam average dimensions, m.
Length.......... 152.4.
Width........... Not reported.
Thickness........ 6.6.
Depth.......... Outcrop.

GEOLOGY

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
...... Shale lies under ore.
Coking ability...... Good.
Heating value....... 13,100-13,830 Btu/lb (458).
Composition, %:
...... Ash........... 2.4-7.0.
...... Sulfur........ 0.2-0.4.
...... Moisture...... 3.2-4.4.
...... Volatile matter... 32.0-39.1.
...... Fixed carbon...... 50.0-58.6.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.2 km.
Road requirement....... Do.
Distance to power supply.. Onsite.

Process rate............. Not reported.
Product type............ Do.
Distance shipped........ Do.
Destination............. Do.

PUBLISHED RESERVES-RESOURCES

Kukpowruk coal basin: Strippable; Measured & Indicated - 16.9 million short tons (218).
Inferred - 98.4 million short tons.
Underground; Measured & Indicated - 100 million short tons.
REFERENCES

68, 185, 218, 265, 273, 316, 320, 458, 460.

USGS quadrangle maps... Point Lay, B-1.

USBM sequence number... 0020090006.
KUKPOWRUK RIVER

Commodity: Bituminous

LOCATION-OWNERSHIP

General location.. 50 km east-northeast of Cape Beaufort.
Meridian........ Umiat.
Tract............ Sec. 23, T 03 S, R 45 W.
Latitude......... 69°09'50" N.
Longitude........ 162°42'40" W.

Owner........... Morgan Coal Company.
Operator......... Unknown.

GEOLOGY

Formation name..... Corwin.
Formation age...... Cretaceous.
Shape of coal seam. Tabular.
Rock relationships.. Sandstone lies over ore.
Coal controls...... Bedding.
Shale lies under ore.
Strike and dip of  S 85° W, 7-12° N.
Coking ability...... Good.
Coal seam average
Heat value........ 11,800-15,300 Btu/lb (17).
Composition, %:
Ash.................. 2.0-10.4.
Sulfur............... 0.1-0.5.
Moisture............ 0.8-10.5.
Volatile matter... 29.1-43.0.
Fixed carbon...... 49.4-66.6.

DEVELOPMENT

Current status..... Exploration prospect.
Year of discovery.. 1923.
Initial production.. Not reported.
Distance to water supply.. 0.1 km.
Distance to power supply.. Onsite.

Type of operation.. Prospect.
Road requirement....... Do.
Annual production... Do.

Discovery method... Unknown.
Last production..... Do.
Past production..... Do.

Process rate......... Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

Kukpowaurs coal basin: Strippable; Measured & Indicated - 16.9 million short tons (218).
Inferred - 98.4 million short tons.
Underground; Measured & Indicated - 100 million short tons.
REFERENCES

1, 16, 21, 35, 57, 59, 84, 86, 117,
122, 145-146, 174, 185, 191, 196,
213, 218, 220, 223, 265, 273, 316,
320, 327-328, 332, 335, 354-355, 361,
367, 373, 376, 394, 398, 415, 417,
421, 425, 454, 458, 460.

USGS quadrangle maps... Point Lay, A-2.

USBM sequence number... 0020090002.
DEADFALL SYNCLINE

Map No: 26
Alternate names: None

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Point Lay.
Mining district........ Wainwright.
Coalfied........ Northern Alaska.
Elevation........ 73 m.
Topography........ Gently rolling.
Domain........ Native.

General location: 31 km northeast of Cape Beaufort.
Meridian........ Umiat.
Tract........... Sec. 24, T 03 S, R 47 W.
Latitude........ 69°09′52″ N.
Longitude........ 163°09′41″ W.

Owner........... North Slope Borough.
Operator........ Arctic Slope Regional Corporation.

GEOLOGY

Formation name........ Corwin.
Shape of coal seam........ Tabular.
Coal controls........ Bedding.
Strike and dip of coal seam........ Not reported.
Coal seam average dimensions, m.
Length........ Do.
Width........ Do.
Thickness........ 4.0.
Depth........ 1-10.

Formation age........ Cretaceous.
Rock relationships........ Sandstone lies over ore.
          Shale lies under ore.
Coking ability........ Not reported.
Heating value........ 10,675-13,209 Btu/lb (22).
Composition, %:
          Ash................. 5.53-21.71.
          Sulfur.............. 0.06-0.64.
          Moisture........... 2.6-7.93.
          Volatile matter.... Not reported.
          Fixed carbon...... Do.

DEVELOPMENT

Current status........ Raw prospect.
Type of operation........ Prospect.
Year of discovery........ Unknown.
Discovery method........ Do.

Initial production........ Not reported.
Last production........ Do.
Past production........ Do.
Annual production........ Do.

Distance to water supply........ 1.6 km.
Road requirement........ 10.7 km.
Distance to power supply........ Onsite.

Process rate........ Not reported.
Product type........ Do.
Distance shipped........ Do.
Destination........ Do.

PUBLISHED RESERVES-RESOURCES

Reserves: Measured 15.81 million short tons (22).
Inferred 59 million short tons.
REFERENCES

22-23, 80, 164, 273, 316, 427, 433.

USGS quadrangle maps... Point Lay, A-2.

USBM sequence number... 0020090007.
CAPE BEAUFORT

Commodity: Bituminous

LOCATION-OWNERSHIP

General location... At Cape Beaufort on the Chukchi Sea.
Meridian......... Umiat.
Tract............ Sec. 08, T 05 S, R 50 W.
Latitude......... 69°01'19" N.
Longitude........ 163°50'09" W.

GEOLOGY

Formation name..... Corwin.
Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Yes.
Heating value....... 8,720-13,830 Btu/lb (458).
Composition, %:
Ash................. 4.0-19.8.
Sulfur............... 0.1-0.7.
Moisture............ 6.3-19.8.
Volatile matter... 21.9-42.6.
Fixed carbon........ 36.7-72.3.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Distance to water supply.. 0.1 km.
Road requirement......... 9 km.
Distance to power supply.. Onsite.
Process rate............ Not reported.
Product type............ Do.
Distance shipped........ Do.
Destination............. Do.

PUBLISHED RESERVES-RESOURCES

Cape Beaufort district: Resources; Measured 3.5 million short tons (191).
Indicated 312 million short tons.
Inferred 686 to 936 million short tons.
REFERENCES


USGS quadrangle maps... Point Lay, A-4.

USBM sequence number... 0020090001.
CAPE SABINE

Map No: 28
Alternate names: None
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... De Long Mtns.
Mining district.. Lisburne.
Coalfield....... Northern Alaska.
Elevation........ 4 m.
Topography...... Steep cliff.
Domain.......... Native.

General location.. 65 km east of Cape Lisburne.
Meridian........... Umiat.
Tract............... Sec. 24, T 06 S, R 54 W.
Latitude.......... 68°54'26" N.
Longitude......... 164°36'52" W.

Owner............. Unknown.
Operator.......... Do.

GEOLOGY

Formation name..... Corwin.
Formation age....... Cretaceous.
Shape of coal seam. Tabular.
Rock relationships.. Sandstone lies over ore.
Coal controls...... Bedding.
Shale lies under ore.
Strike and dip of N 80° E, 20-40° N.
Coking ability...... Not reported.
Coal seam average
Heating value....... Do.
dimensions, m.
Composition, %:
Length............. Not reported.
Ash.................. Do.
Width............. Do.
Sulfur............. Do.
Thickness......... 1.2.
Moisture.......... Do.
Depth............. Outcrop.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Development deposit.
Type of operation.. Surface.

Distance to water supply.. 1.0 km.
Road requirement......... Do.
Year of discovery.. 1826.
Distance to power supply.. Onsite.
Discovery method... Exploration.

Initial production.. Not reported.
Process rate.......... Not reported.
Last production..... Do.
Product type.......... Do.
Past production..... Do.
Distance shipped...... Do.
Annual production... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

7, 130, 133, 185, 265, 273, 316,
320, 354, 355, 398, 417.

USGS quadrangle maps... De Long Mtns., D-5.
USBM sequence number... 0020180010.
THETIS MINE

Map No: 29
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... De Long Mtns.
Mining district.. Lisburne.
Coalfield....... Northern Alaska.
Elevation....... 15 m.
Topography...... Low-lying.
Domain.......... Native.

General location.. 6.8 km west of Cape Sabine.

Meridian....... Umiat.
Tract........... Sec. 30, T 06 S, R 54 W.
Latitude........ 68°53'20" N.
Longitude....... 164°50'45" W.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 60° W, 20° SW.
Coal seam average dimensions, m.
  Length......... Not reported.
  Width.......... Do.
  Thickness....... 1.8.
  Depth.......... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
  Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 6,487-10,467 Btu/lb (332).
Composition, %:
  Ash.............. 5.8-31.1.
  Sulfur.......... 0.3-0.8.
  Moisture........ 12.0-15.7.
  Volatile matter.. 25.0-44.0.
  Fixed carbon..... 29.2-58.8.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. 1888.
Discovery method... Exploration.

Initial production.. 1888.
Last production.... 1901.
Past production..... 1,102 mt.
Annual production... Not reported.

Process rate........... Unknown.
Product type.......... Coal.
Distance shipped...... 1.0 km.
Destination........... Local use and ships.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

130-133, 185, 265, 273, 316, 320, 332, 364, 398, 417.

USGS quadrangle maps... De Long Mtns., D-5.

USBM sequence number... 0020180005.
CORWIN BLUFF

Map No: 29
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... De Long Mtns.
Mining district.. Lisburne.
Coalfield....... Northern Alaska.
Elevation........ 15 m.
Topography...... Steep cliff.
Domain.......... Native.

Owner.......... Unknown.
Operator....... Do.

General location.. 16 km west of Cape Sabine.
Meridian....... Umiat.
Tract........... Sec. 34, T 06 S, R 55 W.
Latitude........ 68°53'00" N.
Longitude....... 164°58'35" W.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 75° W, 30-40° SW.
Coal seam average

dimensions, m.
Length.......... Not reported.
Width............ Do.
Thickness....... 0.76.
Depth.......... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability..... No.
Heating value...... 0.96 (Fuel ratio) (133).
Composition, %:
Ash............. 4.33.
Sulfur......... 0.4.
Moisture....... 13.55.
Volatile matter.. 41.30.
Fixed carbon.... 40.80.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.

Year of discovery.. 1826.
Discovery method... Exploration.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... A few metric tons.

Distance to water supply.. 0.1 km.
Road requirement....... Do.
Distance to power supply.. Onsite.
Process rate............ Unknown.
Product type............ Coal.
Distance shipped....... 0.1 km.
Destination............ Local use and ships.

PUBLISHED RESERVES-RESOURCES

Corwin Bluff district: Identified reserves; Indicated - 56 million short tons (189).
Inferred - 926 million short tons.
REFERENCES

21, 35, 84, 86, 122, 130, 133, 185, 189, 265, 273, 316, 320, 332, 335, 355, 361, 365, 373, 394, 398, 417, 454.

USGS quadrangle maps... De Long Mtns., D-5.

USBM sequence number... 0020180008.
CORWIN MINE

Map No: 30
Alternate names: Corwin Trading Co., Arctic Development Co., E.L. West Coal

Commodity: High volatile B bituminous
High volatile C bituminous

LOCATION-OWNERSHIP

Quadrangle...... Point Hope. Mining district.. Lisburne.
Coalfield....... Northern Alaska. Elevation....... 8 m.
Topography...... Gentle slope. Domain........ BLM-administrated.


GEOLOGY

Formation name..... Corwin. Formation age...... Cretaceous.
Shape of coal seam. Tabular. Rock relationships.. Sandstone lies over ore.
Coal controls...... Bedding. Shale lies under ore.
Strike and dip of  N 75° W, 48° SE. Coking ability...... No.
coal seam. Heating value...... 8,175-11,876 Btu/lb (332).
Coal seam average Composition, %:
dimensions, m.
Length........... Not reported. Ash................... 7.1-19.7.
Width............. Do. Sulfur.............. 0.2-0.6.
Thickness......... 1.5. Moisture........... 5.7-13.9.
Depth........... Outcrop. Volatile matter... 32.6-45.9.
Fixed carbon...... 36.5-59.8.

DEVELOPMENT

Current status..... Past producer. Distance to water supply.. 0.1 km.
Type of operation.. Underground. Road requirement.......... Do.
Year of discovery.. 1826. Distance to power supply.. Onsite.
Discovery method... Exploration.

Initial production.. 1879. Process rate............... Not reported.
Past production..... 1923. Product type............... Coal.
Past production..... 2,866 mt. Distance shipped....... Unknown.
Annual production... Not reported. Destination........ Local use
and ships.

PUBLISHED RESERVES-RESOURCES

Corwin Bluff district: Identified reserves; Indicated - 56 million short tons (191).
Inferred - 926 million short tons.
REFERENCES


USGS quadrangle maps... Point Hope, D-1.

USBM sequence number... 0020170004.
NIAK

Commodity: Bituminous

LOCATION-OWNERSHIP


GEOLOGY


DEVELOPMENT

Current status..... Exploration prospect. Type of operation.. Prospect. Distance to water supply.. 0.1 km. Road requirement........... 1.0 km. Distance to power supply.. Onsite. Year of discovery.. Pre 1904. Discovery method... Unknown. Process rate............ Not reported. Product type......... Do. Distance shipped....... Do. Destination.......... Do. Initial production.. Not reported. Last production..... Do. Past production..... Do. Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

133, 185, 265, 273, 316, 320, 398, 417. USGS quadrangle maps... Point Hope, D-2. USBM sequence number... 0020170003.
CAPE LEWIS

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Point Hope.
Mining district.. Lisburne.
Coalfield........ Northern Alaska.
Elevation........ 60 m.
Topography...... Steep bluff.
Domain........... State.

General location.. 17.7 km south of Cape Lisburne.
Meridian......... Umiat.
Tract............ Sec. 33, T 08 S, R 60 W.
Latitude......... 68°42'07" N.
Longitude....... 166°11'25" W.

Owner........... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Corwin.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of N 75° E, 40° N.
c coal seam.
Coal seam average dimensions, m.
Length........... 804.7.
Width........... Not reported.
Thickness....... 1.2.
Depth........... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability..... Not reported.
Heating value...... 3.32 (Fuel ratio) (133).
Composition, %:
Ash.............. 3.0.
Sulfur........... 0.96.
Moisture......... 5.51.
Volatile matter... 21.16.
Fixed carbon..... 70.33.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement.......... Do.
Distance to power supply.. Onsite.

Process rate........... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

130, 133, 185, 265, 273, 316, 320, 398, 417.

USGS quadrangle maps... Point Hope, C-3.
USBM sequence number... 0020170002.

70
CAPE DYER

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Point Hope.
Mining district.. Lisburne.
Coalfield........ Northern Alaska.
Elevation........ 60 m.
Topography....... Steep cliff.
Domain........... State.

General location.. 25.7 km south of Cape Lisburne.
Meridian......... Umiat.
Tract........... Sec. 21, T 09 S, R 61 W.
Latitude.......... 68° 39′ 00″ N.
Longitude........ 166° 13′ 30″ W.

Owner............... Unknown.
Operator........... Do.

GEOLOGY

Formation name..... Kapaloak.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
  Length........... Do.
  Width............ Do.
  Thickness....... 0.3.
  Depth............ Outcrop.

Formation age...... Paleozoic.
Rock relationships.. Sandstone lies over ore.
  Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 14,000 Btu/lb (354).
Composition, %: (133).
  Ash................. 2.81.
  Sulfur............. Not reported.
  Moisture.......... 1.71.
  Volatile matter... 15.62.
  Fixed carbon...... 79.86.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1900.
Discovery method... Unknown.

Initial production.. 1900.
Last production.... Do.
Past production..... 1.1 mt.
Annual production... Not reported.

Distance to water supply.. 0.1 km.
Road requirement......... Do.
Distance to power supply.. Onsite.

Process rate........... Not reported.
Product type........... Coal.
Distance shipped....... 0.1 km.
Destination........... A ship.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

130, 133, 141, 185, 265, 269, 273, 316, 320, 354, 398, 417.

USGS quadrangle maps... Point Hope, C-3.
USBM sequence number... 0020170001.
KUKPUK RIVER

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle... Point Hope.
Mining district... Lisburne.
Coalfield... Northern Alaska.
Elevation... 26 m.
Topography... Gently rolling.
Domain... Native.

Owner... Unknown.
Operator... Do.

General location... 39 km northeast of Point Hope.

Meridian... Umiat.
Tract... Sec. 14, T 12 S, R 60 W.
Latitude... 68°24'30" N.
Longitude... 165°54'26" W.

GEOLOGY

Formation name... Kapaloak.
Shape of coal seam... Tabular.
Coal controls... Bedding.
Strike and dip of coal seam... Not reported.

Coal seam average dimensions, m.
Length... Do.
Width... Do.
Thickness... Do.
Depth... Outcrop.

Formation age... Paleozoic.
Rock relationships... Sandstone lies over ore.
Shale lies under ore.
Coking ability... Not reported.
Heating value... Do.

Composition, %:
Ash... Do.
Sulfur... Do.
Moisture... Do.
Volatile matter... Do.
Fixed carbon... Do.

DEVELOPMENT

Current status... Past producer.
Type of operation... Surface.
Year of discovery... 1826.
Discovery method... Unknown.

Initial production... Not reported.
Last production... Do.
Past production... A few metric tons.
Annual production... Not reported.

Distance to water supply... 0.3 km.
Road requirement... Do.
Distance to power supply... Onsite.

Process rate... Unknown.
Product type... Coal.
Distance shipped... 39 km.
Destination... Point Hope whaling station.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

130, 133, 185, 265, 273, 316, 320, 398, 417.

USGS quadrangle maps... Point Hope, B-2.

USBM sequence number... 0020170007.
CAPE THOMPSON

Map No: 35
Alternate names: Eegikruttoosook Creek
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Point Hope.
Mining district...... Lisburne.
Coalfield........ Northern Alaska.
Elevation.......... 46 m.
Topography...... Steep slope.
Domain............ State.

General location... 42 km southeast of Point Hope.
Meridian.......... Kateel River.
Tract............. Sec. 27, T 32 N, R 32 W.
Latitude......... 68°08'40" N.
Longitude....... 165°58'00" W.

Owner.............. Unknown.
Operator........... Do.

GEOLOGY

Formation name..... Kapaloak.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of..... Not reported.
coal seam.
Coal seam average
dimensions, m.
Length............... Do.
Width............... Do.
Thickness......... Do.
Depth.............. Outcrop.

Formation age...... Paleozoic.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash.................. Do.
Sulfur.............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1826.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... A few metric tons.
Annual production... Not reported.

Process rate............ Unknown.
Product type........... Coal.
Distance shipped...... 42 km.
Destination.......... Point Hope whaling station.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

130, 133, 185, 265, 273, 316, 320, 354, 398, 417.

USGS quadrangle maps... Point Hope, A-2.

USBM sequence number... 0020170006.
KALLARICHUK RIVER

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

Quadrangle: Baird Mountains.
Mining district: Kiana.
Coalfield: Unnamed.
Elevation: 30 m.
Topography: Gently rolling.
Domain: National Park.

Owner: Unknown.
Operator: Do.

General location: 7 km northwest of the junction of the Kobuk River.
Meridian: Kateel River.
Tract: Sec. 05, T 20 N, R 05 W.
Latitude: 67°10'00" N.
Longitude: 159°48'48" W.

GEOLOGY

Formation name: Unnamed.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: N 45° E, 45° W.
Coal seam average dimensions, m:
Length: Not reported.
Width: Do.
Thickness: 0.5.
Depth: Outcrop.

Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Coking ability: Not reported.
Heating value: 5,788-12,585 Btu/lb (123)
Composition, %:
Ash: 12.97-37.62.
Sulfur: 0.38-1.43.
Moisture: 13.20-17.15.
Volatile matter: 23.30-45.00.
Fixed carbon: 28.38-56.46.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.

Year of discovery: Unknown.
Discovery method: Do.

Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.5 km.
Road requirement: 7 km.
Distance to power supply: Onsite.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

123, 273, 314, 393, 417, 421.


USBM sequence number: 0020270025.
KOBUK RIVER

Map No: 37
Alternate names: Haralan Mine, Kiana

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

Quadrangle........ Baird Mtns.
Mining district...... Kiana.
Coalfield........ Unnamed.
Elevation.......... 122 m.
Topography......... Gently rolling.
Domain............ National Park.

General location.. 1.6 km below the
Kallarichuk River.

Meridian.......... Kateel River.
Tract............. Sec. 32, T 20 N, R 05 W.
Latitude.......... 67°05'30" N.
Longitude........ 159°47'50" W.

Owner............ Unknown.
Operator.......... Do.

GEOLGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length............ Do.
Width............. Do.
Thickness......... 0.6.
Depth............ Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability..... Not reported.
Heating value....... 9,200-10,500 Btu/lb (265).

Composition, %:
Ash................ 7.0-35.0.
Sulfur............ 0.4-1.1.
Moisture......... Not reported.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. 1886.
Discovery method... Unknown.

Initial production.. 1908.
Last production.... 1932.
Past production.... 204 mt.
Annual production... Not reported.

Process rate........ Unknown.
Product type........ Coal.
Distance shipped.... Unknown.
Destination......... Inmachuk.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 35, 73, 109, 185, 237, 265,
273, 314, 320, 355, 382, 397,
417.

USGS quadrangle maps... Baird Mtns., A-2.

USBM sequence number... 0002070019.
HOCKLEY HILLS-NORTH

Commodity: Bituminous

LOCATION-OWNERSHIP

General location: 34 km northwest of Selawik.
Meridian: Kateel River.
Tract: Sec. 21, T 17 N, R 08 W.
Latitude: 66°51'28" N.
Longitude: 160°26'30" W.

GEOLOGY

Formation name: Unnamed.
Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore. Shale lies under ore.
Coking ability: Not reported.
Heating value: 5,196-13,031 Btu/lb (124).
Composition, %:
- Ash: 58.67-59.54.
- Sulfur: 0.25.
- Moisture: 1.46.
- Volatile matter: 11.11-27.87.

DEVELOPMENT

Current status: Raw prospect.
Distance to water supply: 0.2 km.
Type of operation: Prospect.
Road requirement: Do.
Year of discovery: Unknown.
Distance to power supply: 34 km.
Discovery method: Do.
Process rate: Not reported.
Initial production: Not reported.
Product type: Do.
Last production: Do.
Distance shipped: Do.
Past production: Do.
Annual production: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

USGS quadrangle maps: Selawik, D-3.
USBM sequence number: 0020360009.
SINGAURUK RIVER

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

General location.. 26 km northwest of Selawik.
Meridian........ Kateel River.
Tract............ Sec. 14, T 16 N, R 08 W.
Latitude.......... 66°47'08" N.
Longitude........ 160°20'18" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  N 40° E, 30° W. coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness....... 1.73.
Depth........... Outcrop.
Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value..... 4,125-12,590 Btu/lb (124).
Composition, %:
Ash.................. 11.81-58.29.
Sulfur............ 0.24-0.68.
Volatile matter... 16.51-43.93.
Fixed carbon...... 21.07-64.84.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. 26 km.

Process rate........... Not reported.
Product type......... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

81, 124, 129, 262, 314, 417. USGS quadrangle maps... Selawik, D-3.
USBM sequence number... 0020360010.
HUNTER CREEK

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle...... Kotzebue.
Mining district.. Fairhaven.
Coalfield....... Unnamed.
Elevation....... 53 m.
Topography....... Steep slope.
Domain.......... Native.

Owner........... Unknown.
Operator........ Do.

General location.. 21 km east of Deering.
Meridian........ Kateel River.
Tract........... Sec. 04, T 07 N, R 17 W.
Latitude........ 66°01'55" N.
Longitude....... 162°15'40" W.

Elevation .... 53 m. Meridian ..... Kateel River.
Topography ....... Steep slope. Tract ......... Sec. 04, T 07 N, R 17 W.
Owner.......... Unknown.
Operator........ Do.

FORMATION

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported. coal seam.
Coal seam average dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... Do.
Depth............. Outcrop.

Formation age.... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value...... Do.
Composition, %:
Ash............... Do.
Sulfur......... Do.
Moisture....... Do.
Volatile matter.. Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.

DEVELOPED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Kotzebue, 1.
USBM sequence number... 002350004.
CHICAGO CREEK

Map No: 41
Alternate names: Kugruk Coal Mine
Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle.... Bendeleben.
Mining district.. Fairhaven.
Coalfield........ Chicago Creek.
Elevation....... 40 m.
Topography...... Gently rolling.
Domain.......... Native.

General location.. 23 km southeast of Deering.

Meridian........ Kateel River.
Tract............ Sec. 22, T 06 N, R 18 W.
Latitude......... 65°54'10" N.
Longitude....... 162°25'24" W.

Owner........... NANA Regional Corporation.
Operator......... Denali Drilling, Inc.

GEOMETRY

Formation name..... Kugruk.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 8° W, 53° W.
coal seam.
Coal seam average
dimensions, m.
   Length......... 1,524.
   Width.......... 31.7.
   Thickness..... 26.8.
   Depth.......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability..... Not reported.
Heating value....... 6,000-6,000 Btu/lb (198, 415).
Composition, %:
   Ash................ 7.1-8.86.
   Sulfur............ 0.8.
   Moisture.......... 33.8-37.73.
   Fixed carbon..... 19.2-29.27.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. 1902.
Discovery method... Prospecting.

Initial production.. 1908.
Last production..... 1911.
Past production..... 121,252 mt.
Annual production... Not reported.

Distance to water supply.. 0.1 km.
Road requirement........ 13 km.
Distance to power supply.. Onsite.

Process rate........ Unknown.
Product type........ Coal.
Distance shipped..... 28 km.
Destination........ Candle.

PUBLISHED RESERVES-RESOURCES

Demonstrated reserves; 4.5 million short tons (80).
REFERENCES


USGS quadrangle maps... Bendeleben, D-1.

USBM sequence number... 0020440088.
WALLIN COAL MINE

Map No: 42
Alternate names: George Wallin Mine, Kugruk Mine

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... Bendeleben.
Mining district.. Fairhaven.
Coalfield....... Chicago Creek.
Elevation....... 34 m.
Topography...... Gently rolling.
Domain.......... BLM-administrated.

General location.. 31 km southeast of Deering.
Meridian......... Kateel River.
Tract............ Sec. 10, T 05 N, R 13 W.
Latitude......... 65°50'55" N.
Longitude........ 162°25'47" W.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  N 15° W, 67-70° SW.
coal seam.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 9,583-12,762 Btu/lb (180).

Coal seam average Composition, %:
dimensions, m.
Length........... Not reported.
Width............... Do.
Thickness......... 21.3.
Depth............. Outcrop.

Ash................ 5.17-6.44.
Sulfur............. 1.21-1.61.
Volatile matter... 36.25-48.28.
Fixed carbon...... 38.84-51.72.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1902.
Discovery method... Prospecting.

Initial production.. 1914.
Last production.... 1918.
Past production.... 11,023 mt.
Annual production... 28-110 mt/yr.

Distance to water supply.. 0.1 km.
Road requirement....... 21 km.
Distance to power supply.. Onsite.

Process rate........ Unknown.
Product type....... Coal.
Distance shipped..... 28 km.
Destination.......... Candle.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Bendeleben, D-1.

USBM sequence number... 0020440160.
SUPERIOR COAL MINE

Commodity: Lignite

LOCATION-OWNERSHIP

General location: 30 km southwest of Deering.

Meridian: Kateel River.

Tract: Sec. 15, T 05 N, R 18 W.

Latitude: 65°50'18" N.

Longitude: 162°26'04" W.

GEOLOGY

Formation name: Kugruk.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Strike and dip of coal seam: N 4° E, 78° N.

Coal seam average dimensions: m.

Length: Not reported.

Width: Do.

Thickness: 16.8.

Depth: Outcrop.

Formation age: Tertiary.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Coking ability: Not reported.

Heating value: Do.

Composition, %: (113).

Ash: 3.85.

Sulfur: 0.68.

Moisture: 24.92.

Volatile matter: 38.15.

Fixed carbon: 33.58.

DEVELOPMENT

Current status: Development deposit.

Type of operation: Underground.

Year of discovery: 1902.

Discovery method: Unknown.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Process rate: Unknown.

Product type: Coal.

Distance shipped: 28 km.

Destination: Candle.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

57-58, 73, 113, 185, 188, 265, 273, 286, 320, 355, 374, 417.

USGS quadrangle maps... Bendelben, D-1.

USBM sequence number... 0020440159.
SINUUK RIVER

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Nome. Mining district... Do. Coalfield...... Unnamed. Elevation....... 76 m. Topography...... Gently rolling. Domain........ Native.

General location.. 5.6 km northeast of Sinuk.

Meridian......... Kateel River. Tract............. Sec. 05, T 09 S, R 36 W. Latitude.......... 64°44'00" N. Longitude........ 165°55'20" W.


GEOLOGY

Formation name..... Unnamed. Shape of coal seam. Tabular. Coal controls...... Bedding. Strike and dip of Not reported. coal seam.

Formation age...... Tertiary. Rock relationships.. Sandstone encloses ore.

Strike and dip of Not reported. Coking ability ...... Not reported. Heating value ...... Do. Composition, %:

Ash.............. Do. Sulfur............. Do. Moisture....... Do. Volatile matter... Do. Fixed carbon...... Do.

Coal seam average dimensions, m.


DEVELOPMENT

Current status..... Exploration prospect. Type of operation.. Prospect.

Distance to water supply.. 0.1 km. Road requirement........ 5.6 km. Distance to power supply.. Do.

Year of discovery.. Unknown. Discovery method... Do.

Process rate........... Not reported. Product type ........... Do. Distance shipped....... Do. Destination........... Do.

Initial production.. Not reported. Last production..... Do. Past production..... Do. Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

134, 185, 200, 265, 273, 320, 354, 417. USGS quadrangle maps... Nome, C-2. USBM sequence number... 0020520059.
NASKAK

Map No: 44
Alternate names: Naskak Camp Prospect
Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle...... St. Lawrence.
Mining district.. Bering Sea Region.
Coalfield....... Unnamed.
Elevation....... 20 m.
Topography..... Low-lying.
Domain.......... Native.
Owner........... Unknown.
Operator........ Do.

General location.. 19 km southeast of Gambell.
Meridian....... Kateel River.
Tract.......... Sec. 19, T 21 S, R 66 W.
Latitude........ 63°39'00" N.
Longitude....... 171°29'00" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of  Not reported.
   coal seam.
Coal seam average
   dimensions, m.
   Length........ Do.
   Width......... Do.
   Thickness..... Do.
   Depth......... Do.

Formation age..... Tertiary.
Rock relationships.. Not reported.
Coking ability..... Do.
Heating value------ Do.
Composition, %:
   Ash............ Do.
   Sulfur......... Do.
   Moisture....... Do.
   Volatile matter.. Do.
   Fixed carbon.... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement....... 19 km.
Distance to power supply.. Do.

Process rate............... Not reported.
Product type............ Do.
Distance shipped....... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

178, 185, 265, 273, 313, 320, 341.
USGS quadrangle maps... St. Lawrence.
USBM sequence number... 0020610015.

87
KOYUK RIVER

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle....... Norton Bay.
Mining district.. Koyuk.
Coalfield........ Unnamed.
Elevation........ 76 m.
Topography...... Gently rolling.
Domain.......... Native.

General location.. 1.5 km north of Koyuk.

Meridian........ Kateel River.
Tract............ Sec. 29, T 06 S, R 12 W.
Latitude.......... 64°56'45" N.
Longitude........ 161°09'55" W.

Owner.......... Unknown.
Operator........ Do.

GEOLoGY

Formation name..... Kaltag-Nulato.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of ... Not reported.
coal seam.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Clay lies under ore.

Coking ability...... Not reported.

Coal controls ...... Bedding.

Composition, %:
Ash................. Do.
Sulfur.............. Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Pre 1909.
Discovery method... Unknown.

Distance to water supply.. 1.5 km.
Road requirement......... Do.
Distance to power supply.. Do.

Initial production.. Not reported.
Last production...... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

104, 108, 113, 165, 185, 265, 269,
273, 320, 396, 417, 421, 427.

USGS quadrangle maps... Norton Bay, D-5.

88
WILSON CREEK
Commodity: Lignite

LOCATION-OWNERSHIP

General location: 66 km southeast of Candle.
Meridian: Kateel River.
Tract: Sec. 32, T 01 S, R 13 W.
Latitude: 65°21'30" N.
Longitude: 161°23'10" W.

GEOLOGY

Formation age: Tertiary.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Coking ability: Not reported.
Heating value: Do.
Composition, %:
Ash: Do.
Sulfur: Do.
Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Distance to water supply: 0.1 km.
Road requirement: 13 km.
Distance to power supply: Onsite.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

USGS quadrangle maps: Candle, B-5.
USBM sequence number: 0020450044.
TRAMWAY BAR COAL

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 3 km northeast of Tramway Bar.

Owner: Unknown.
Operator: Do.

FORMATION

Formation name: Kaltag.
Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore, shale lies under ore.
Coking ability: Not reported.
Heating value: 7,263-12,559 Btu/lb (179).
Composition, %:
  Ash: 35.79-38.23.
  Sulfur: 0.14-0.25.
  Moisture: 6.38.
  Fixed carbon: 33.54-58.01.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: 1899.
Discovery method: Unknown.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Wiseman, A-1.
USBM sequence number... 0020300068.
COAL CREEK - DALL RIVER

Alternate names: Dall River Coal

Commodity: Lignite & subbituminous B

LOCATION-OWNERSHIP

General location: 49 km northwest of Stevens Village.

Meridian: Fairbanks.

Tract: Sec. 03, T 17 N, R 11 W.

Latitude: 66°19'25" N.

Longitude: 149°51'15" W.

GEOLOGY

Formation name: Unnamed.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Strike and dip of coal seam: Not reported.

Coal seam average dimensions, m:
- Length: Do.
- Width: Do.
- Thickness: 3.4.
- Depth: Outcrop.

Formation age: Tertiary.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Coking ability: Not reported.

Heating value: 9,821-11,671 Btu/lb (34).

Composition, %:
- Ash: 4.63-5.22.
- Sulfur: Not reported.
- Moisture: 11.21.
- Volatile matter: 43.10-51.22.
- Fixed carbon: 41.06-48.78.

DEVELOPMENT

Current status: Exploration prospect.

Type of operation: Prospect.

Year of discovery: 1902.

Discovery method: Exploration.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 0.1 km.

Road requirement: 1.6 km.

Distance to power supply: 49 km.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

21, 34-35, 75, 131, 179, 185, 262, 265, 273, 320, 393, 417, 421, 464.

USGS quadrangle maps... Beaver, B-6.

USBM sequence number... 0020400002.
HODZANA RIVER

Commodity: Lignite A & subbituminous C

LOCATION-OWNERSHIP

General location: 56 km northwest of Beaver.

Meridian: Fairbanks.
Tract: Sec. 35, T 22 N, R 04 W.
Latitude: 60°41'30" N.
Longitude: 148°21'30" W.

LOCATION-OWNERSHIP

Quadrangle: Beaver.
Mining district: Yukon Flats.
Coalfield: Unnamed.
Elevation: 183 m.
Topography: Gently rolling.
Domain: Native.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Unnamed.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m:
   Length: Do.
   Width: Do.
   Thickness: 0.3.
   Depth: Outcrop.

Formation age: Tertiary.
Rock relationships: Sandstone lies over ore.
Mudstone lies under ore.
Coking ability: Poor.
Heating value: 7,466-11,850 Btu (34).
Composition, %:
   Sulfur: Not reported.
   Moisture: 19.54-27.20.
   Fixed carbon: 43.29-68.71.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: 1902.
Discovery method: Exploration.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: 20 km.
Distance to power supply: 56.3 km.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

21, 34, 75, 179, 273, 417, 464.

USGS quadrangle maps: Beaver, C-3.

USBM sequence number: 0020400003.
FISHHOOK BEND

Map No: 50
Alternate names: Porcupine River, Colleen Basin
Commodity: Lignite A

LOCATION-OWNERSHIP

Quadrangle...... Colleen.
Mining district.. Sheenjek.
Coalfield....... Unnamed.
Elevation....... 183 m.
Topography...... Gently rolling.
Domain.......... National Wildlife
Refuge.
General location.. On bluff northeast of
Henry Martin Island.
Meridian......... Fairbanks.
Tract............ Sec. 31, T 28 N, R 26 E.
Latitude.......... 67°12'22" N.
Longitude........ 142°06'20" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of.. Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... 1.
Depth............ Outcrop.
Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 5,155-10,849 Btu/lb (179).
Composition, %:
Sulfur............. Not reported.
Moisture.......... 34.02.
Volatile matter... 28.09-59.12.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Distance to water supply.. 0.1 km.
Road requirement......... Do.
Distance to power supply.. Onsite.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production...... Do.
Past production.... Do.
Annual production... Do.
Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

34, 179, 273.
USGS quadrangle maps... Colleen, A-3.
USBM sequence number... 0020330005.
MISSION CREEK

Map No: 51
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle........ Eagle.
Mining district.... Do.
Coalfield......... Eagle-Circle.
Elevation......... 442 m.
Topography....... Steep cliff.
Domain............ Native.

Owner............. Unknown.
Operator.......... Do.

General location.. 1 km north of Eagle.
Meridian.......... Fairbanks.
Tract............ Sec. 25, T 01 S, R 32 E.
Latitude........ 64°48'02" N.
Longitude........ 141°12'28" W.

GEOLoGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
   Length.......... Do.
   Width.......... Do.
   Thickness...... Do.
   Depth.......... Outcrop.

Composition, %:
   Ash............... Do.
   Sulfur.......... Do.
   Moisture........ Do.
   Volatile matter.. Do.
   Fixed carbon...... Do.

Formation age...... Tertiary.
Rock relationships. Shale lies over ore.
                    Conglomerate lies under ore.
Coking ability...... Not reported.
Heating value...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Process rate........ Not reported.
Product type........ Do.
Distance shipped.... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 50, 131-132, 172, 179, 185,
265, 273, 279, 320, 417.

USGS quadrangle maps... Eagle, D-1.
USBM sequence number... 0020600010.
AMERICAN CREEK

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 4 km southwest of Eagle.

Meridian: Fairbanks.

Tract: Sec. 11, T 01 S, R 32 E.

Latitude: 64°45'42" N.

Longitude: 141°14'44" W.

GEOLOGY

Formation name: Unnamed.

Formation age: Tertiary.

Rock relationships: Not reported.

Coking ability: Do.

Heating value: 0.96 (Fuel ratio) (131).

Composition, %:

- Ash: 16.53.
- Sulfur: 3.40.
- Moisture: 6.75.
- Fixed carbon: 37.59.

DEVELOPMENT

Current status: Raw prospect.

Type of operation: Prospect.

Year of discovery: 1897.

Discovery method: Unknown.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 0.1 km.

Road requirement: 4 km.

Distance to power supply: Do.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

50, 131-132, 172, 179, 185, 265, 273, 279, 320, 417.

USGS quadrangle maps... Eagle, D-1.

USBM sequence number... 0020600089.
WOLF CREEK

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 8 km southwest of Eagle.

Meridian: Fairbanks.

Tract: Sec. 08, T 02 S, R 32 E.

Latitude: 64°45'13" N.

Longitude: 141°21'02" W.

GEOLOGY

Formation name: Unnamed.

Formation age: Tertiary.

Rock relationships: Slate encloses ore.

Coking ability: Not reported.

Heating value: Not reported.

Composition, %:
- Ash: Do.
- Sulfur: Do.
- Moisture: Do.
- Volatile matter: Do.
- Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.

Type of operation: Prospect.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 0.2 km.

Road requirement: 4 km.

Distance to power supply: Do.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

50, 131, 172, 179, 185, 265, 273, 320, 417.

USGS quadrangle maps... Eagle, D-1.

USBM sequence number... 0020600100.

96
CHICKEN COAL

Map No: 54
Alternate names: None
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Eagle.
Mining district.. Fortymile.
Coalfield....... Unnamed.
Elevation....... 579 m.
Topography...... Gently rolling.
Domain.......... State.
General location.. 1 km northwest of Eagle.
Meridian........ Copper River.
Tract............ Sec. 31, T 27 N, R 18 E.
Latitude......... 64°04'45" N.
Longitude........ 141°56'30" W.
Owner............ George A. Esterbrook.
Operator........ Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 65° E, 90°.
coal seam.
Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value...... 8,330-11,850 Btu/lb (146).

Coal seam average Composition, %:
dimensions, m.
Length............ Not reported.
Width............. Do.
Thickness......... 6.7.
Depth............. Outcrop.
Ash............. 4.2-13.5.
Sulfur........... 0.4-0.6.
Moisture.......... 12.6-23.1.
Volatile matter... 30.8-40.6.
Fixed carbon...... 35.7-54.6.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. Unknown.
Discovery method... Do.
Distance to water supply.. 0.1 km.
Road requirement........ 1 km.
Distance to power supply.. Do.
Initial production.. 1930.
Last production...... 1940.
Past production..... Not reported.
Annual production... Do.
Process rate........... Unknown.
Product type......... Coal.
Distance shipped..... 1 km.
Destination.......... Chicken.

PUBLISHED RESERVES-RESOURCES

No reported reserve-resource information.

REFERENCES

15, 35, 145-146, 172, 174, 179, 185,
265, 273-274, 277, 279, 320, 334, 355,
361, 368, 388, 391, 400, 417, 421.
USGS quadrangle maps... Eagle, A-2.
USBM sequence number... 0020600112.

97
COPPER CREEK COAL

Map No: 55
Alternate names: Charley Creek Prospect
Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... Eagle.
Mining district.. Circle.
Coalfield....... Unnamed.
Elevation........ 701 m.
Topography...... Gently rolling.
Domain.......... National Park.
Owner........... Jim Henderson.
Operator........ Unknown.

General location.. 100 km west of Eagle.
Meridian........ Fairbanks.
Tract............ Sec. 10, T 01 S, R 22 E.
Latitude......... 64°50'37" N.
Longitude........ 143°18'15" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness....... Do.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value....... 11,230-11,470 Btu/lb (146).
Composition, %:
Sulfur............. 0.6.
Moisture.......... 2.1.
Volatile matter... 20.8-21.3.
Fixed carbon...... 54.0-55.1.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 100 km.
Distance to power supply.. Onsite.

Initial production.. Not reported.
Last production...... Do.
Past production...... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

61, 145-146, 172, 174, 185, 265, 273, 320, 417.
USGS quadrangle maps... Eagle, D-5.
USBM sequence number... 0020600155.

98
WASHINGTON CREEK

Map No: 56
Alternate names: Alaska Coal & Coke Co., N.B. La Brie, Stanford, Pratt, Layman, & Jewett

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 16 km south of the Yukon

Meridian: Fairbanks.
Tract: Sec. 20, T 04 N, R 27 E.
Latitude: 65°09'30" N.
Longitude: 142°18'30" W.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Unnamed.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m:
Length: Do.
Width: Do.
Thickness: 1.2.
Depth: Outcrop.

Formation age: Tertiary.
Rock relationships: Sandstone encloses ore.
Coking ability: Not reported.
Heating value: 6,440-9,080 Btu/lb (34).
Composition, %:
Sulfur: Not reported.
Moisture: 19.30-20.50.
Volatile matter: 25.60-37.60.
Fixed carbon: 26.30-37.10.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Prospect.
Year of discovery: 1897.
Discovery method: Prospecting.
Initial production: 1897.
Last production: Do.
Past production: 5.5 mt.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: 16 km.
Distance to power supply: Onsite.

Process rate: Unknown.
Product type: Coal.
Distance shipped: 16 km.
Destination: Riverboat.

PUBLISHED RESERVES-RESOURCES

Hypothetical resources: 100 million short tons (136,355).
REFERENCES

34-35, 49, 52, 64, 66, 131-132, 136, 179, 185, 265, 273, 279, 320, 355, 417, 421.

USGS quadrangle maps... Charley River, A-3.

USBM sequence number... 0020510026.
NATION RIVER COAL

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Charley River.
Mining district.... Eagle-Circle.
Coalfiel...... Do.
Elevation......... 457 m.
Topography...... Gently rolling.
Domain........... Native.

Owner.......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Nation River.
Shape of coal seam. Tabular.
Strike and dip of coal seam. N 60° E, 40° SE.
Coal seam average dimensions, m.
Length........... 3.96.
Width............. Not reported.
Thickness......... 2.4.
Depth............ Outcrop.

Formation age...... Tertiary (?).
Rock relationships.. Sandstone lies over ore.
Conglomerate lies under ore.
Coking ability...... Good.
Heating value....... 1.39 (Fuel ratio) (131).
Composition, %:
Ash.................. 3.04.
Sulfur............... 2.98.
Moisture............ 1.39.
Volatile matter... 40.02.
Fixed carbon...... 55.55.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. 1897.
Discovery method... Unknown.

Initial production.. 1897.
Last production..... 1898.
Past production...... 2,315 mt.
Annual production... Not reported.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped..... 160 km.
Destination........... Dawson.

PUBLISHED RESERVES-RESOURCES

Hypothetical resources; 50 million short tons (191).
REFERENCES


USGS quadrangle maps... Charley River, A-2.

USBM sequence number... 0020510029.
BONANZA CREEK

Commodity: Bituminous

LOCATION-OWNERSHIP

General location: 3.5 km from the Charley River.
Meridian: Fairbanks.
Tract: Sec. 29, T 05 N, R 25 E.
Latitude: 65°13'35" N.
Longitude: 142°39'05" W.

GEOLOGY

Composition, %:
Ash: Do.
Sulfur: Do.
Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Distance to water supply: 0.1 km.
Road requirement: 3.5 km.
Distance to power supply: Onsite.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

49, 131-132, 179, 273, 417, 421.
USBM sequence number: 0020510035.
COAL CREEK - YUKON RIVER

Map No: 59
Alternate names: None

Commodity: Subbituminous & lignite

LOCATION-OWNERSHIP

Quadrangle...... Charley River.
Mining district.. Circle.
Coalfield....... Eagle-Circle.
Elevation....... 277 m.
Topography...... Gently rolling.
Domain......... National Park.

General location.. 1.6 km. from the mouth of
Coal Creek.

Meridian......... Fairbanks.
Tract............ Sec. 19, T 06 N, R 23 E.
Latitude........ 65°20'18" N.
Longitude....... 143°06'02" W.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam.
Coal seam average
dimensions, m.

Formation age...... Tertiary.
Rock relationships.. Sandstone encloses ore.

Coking ability...... Not reported.
Heating value....... 6,160-10,320 Btu/lb (34).
Composition, %:
Ash.............. 9.40-18.00.
Sulfur............ Not reported.
Volatile matter... 29.30-53.80.
Fixed carbon...... 25.10-46.20.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1920.
Last production..... 1930.
Past production..... Not reported.
Annual production... Do.

Process rate......... Unknown.
Product type......... Coal.
Distance shipped..... 4.5 km.
Destination......... Coal Creek.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

34, 49, 52, 61, 64, 131-132, 136,
191, 273, 279, 334, 354-355, 361,
417, 425.

USGS quadrangle maps... Charley River, B-5.
USBM sequence number... 0020510036.
DREW MINE

Map No: 60
Alternate names: Miller Mine, Pioneer
Commodity: Lignite & subbituminous B

LOCATION-OWNERSHIP

Quadrangle...... Livengood.
Mining district.. Melozitna.
Coalfield....... Rampart.
Elevation....... 91 m.
Topography...... Steep cliff.
Domain......... Native.
Owner.......... Unknown.
Operator....... Do.

General location.. 61 km northwest of Livengood.
Meridian......... Fairbanks.
Tract........... Sec. 27, T 10 N, R 11 W.
Latitude.......... 65°40'13" N.
Longitude........ 149°49'35" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 3° E, 80° S.
coal seam.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 0.97.
Depth............. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sanstone encloses ore.
Coking ability...... Not reported.
Heating value....... 5,560-12,360 Btu/lb (179).
Composition, %:
Ash................ 4.64-43.40.
Sulfur........... 0.33.
Moisture......... 6.24-19.00.
Volatile matter... 23.10-48.80.
Fixed carbon...... 24.30-57.90.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1895.
Discovery method... Prospecting.
Initial production.. 1897.
Last production..... 1900.
Past production..... 1,323 mt.
Annual production... Not reported.

Distance to water supply.. 0.1 km.
Road requirement....... Do.
Distance to power supply.. Onsite.
Process rate........... Unknown.
Product type......... Coal.
Distance shipped....... 0.1 km.
Destination........... Riverboat use.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

15, 34-35, 118, 131-132, 179, 185, 265, 273, 275, 279, 320, 324, 417, 432.

USGS quadrangle maps... Livengood, C-6.
USBM sequence number... 0020490115.
HUNTER

Map No: 61
Alternate names: Minook Creek

Commodity: Lignite A

LOCATION-OWNERSHIP

Quadrangle....... Tanana.
Mining district.. Rampart.
Coal Field...... Do.
Elevation........ 107 m.
Topography....... Gently rolling.
Domain.......... Native.

General location.. 5 km southeast of Rampart.
Meridian........ Fairbanks.
Tract............ Sec. 30, T 08 N, R 12 W.
Latitude......... 65°29'09" N.
Longitude........ 150°06'00" W.

Owner............ Unknown.
Operator.......... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 70° E, 20-50° S.
coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness........ Do.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone encloses ore.

Coking ability...... Not reported.
Heating value....... 0.87 (Fuel ratio) (179).
Composition, %:
Ash............... 5.83.
Sulfur............ Not reported.
Volatile matter... 44.32.
Fixed carbon....... 38.64.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Distance to water supply.. 0.1 km.
Road requirement......... 5 km.
Distance to power supply.. Do.

Year of discovery.. Pre 1903.
Discovery method... Unknown.

Process rate........... Not reported.
Product type.......... Do.
Distance shipped..... Do.
Destination.......... Do.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

131, 179, 185, 265, 273, 275, 320, 417.
USGS quadrangle maps... Tanana, B-1.
USBM sequence number... 0020480086.

106
RAMPART

Commodity: Lignite

LOCATION-OWNERSHIP

General location: On the south side of the Yukon River 3 km below Rampart.
Meridian: Fairbanks.
Tract: Sec. 25, T 08 N, R 13 W.
Latitude: 65°29'34" N.
Longitude: 150°10'58" W.

GEOLOGY

Formation name: Unnamed.
Formation age: Tertiary.
Rock relationships: Sandstone encloses ore.
Coking ability: Poor.
Heating value: 0.86 (Fuel ratio) (131).
Composition, %:
- Sulfur: Not reported.
- Moisture: 16.43.
- Volatile matter: 41.09.
- Fixed carbon: 53.22.

DEVELOPMENT

Current status: Past producer.
Type of operation: Underground.
Year of discovery: Pre 1902.
Discovery method: Unknown.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: Do.
Distance to power supply: 3 km.
Process rate: Unknown.
Product type: Coal.
Distance shipped: 3 km.
Destination: Rampart.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

52, 64, 67, 131-132, 136, 179, 185, 265, 269, 273, 275, 320, 361, 417.
USGS quadrangle maps... Tanana, B-1.
USBM sequence number... 0020480099.
THE PALISADES

Commodity: Lignite

LOCATION-OWNERSHIP

General location.. On south side of the Yukon River 17 km above Birches.
Meridian......... Kateel River.
Tract............ Sec. 30, T 04 S, R 28 E.
Latitude.......... 65°06'40" N.
Longitude........ 153°11'58" W.

GEOLOGY

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore
Shale lies under ore
Coking ability...... Not reported.
Heating value...... Do.
Composition, %:
Ash................. Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. Onsite.
Year of discovery.. Pre 1902.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Process rate........... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.
Past production..... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

129, 131-132, 188, 205, 265, 273, 315, 320, 417.  
USGS quadrangle maps... Melozitna, A-1.
USBM sequence number... 0020470004.

108
MELOZITNA RIVER

Map No: 64
Alternate names: None
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Ruby.
Mining district.. Melozitna.
Coalfield....... Unknown.
Elevation....... 149 m.
Topography...... Gently rolling.
Domain......... BLM-administered.

Owner........... Unknown.
Operator........ Do.

General location.. 30 km northeast of Ruby.
Meridian........ Kateel River.
Tract........... Sec. 06, T 06 S, R 18 E.
Latitude......... 64°59′59″ N.
Longitude...... 155°18′05″ W.

GEOLOGY

Formation name..... Unknown.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
   Length........... Do.
   Width............ Do.
   Thickness...... 0.76.
   Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value...... Do.
Composition, %:
   Ash............... Do.
   Sulfur.......... Do.
   Moisture....... Do.
   Volatile matter... Do.
   Fixed carbon..... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... A few metric tons.
Annual production... Not reported.

Distance to water supply.. 0.5 km.
Road requirement........ Do.
Distance to power supply.. 30 km.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped...... 30 km.
Destination........... Ruby.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

106, 115-116, 179, 205, 273, 417.
USGS quadrangle maps... Ruby, D-5.
USBM sequence number... 0020560067.

109
QUARTZ CREEK

Map No: 65
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle....... Ruby.
Mining district.. Do.
Coalfield....... Unnamed.
Elevation....... 91 m.
Topography...... Low lying.
Domain.......... State.

General location.. 53 km southeast of Ruby.
Meridian....... Kateel River.
Tract............ Sec. 03, T 14 S, R 19 E.
Latitude........ 64°18'02" N.
Longitude....... 155°04'05" W.

Owner.......... Unknown.
Operator........ Do.

GEOLGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length.......... Do.
Width.......... Do.
Thickness....... Do.
Depth.......... 30.5.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value....... Do.
Composition, %:
Ash............. Do.
Sulfur.......... Do.
Moisture........ Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Distance to water supply.. 0.1 km.
Road requirement....... 53 km.
Distance to power supply.. Do.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Ruby, B-5.

USBM sequence number... 0020560068.
POORMAN CREEK II

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: 80 km south of Ruby.

Meridian: Kateel River.

Tract: Sec. 09, T 17 S, R 16 E.

Latitude: 64°01'37" N.

Longitude: 155°45'50" W.

GEOLOGY

Formation name: Unnamed.

Formation age: Cretaceous.

Shape of coal seam: Tabular.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Strike and dip of coal seam: Not reported.

Coking ability: Not reported.

Heating value: Do.

Composition, %:

- Ash: Do.
- Sulfur: Do.
- Moisture: Do.
- Volatile matter: Do.
- Fixed carbon: Do.

DEVELOPMENT

Current status: Past producer.

Distance to water supply: 0.1 km.

Type of operation: Underground.

Road requirement: 1 km.

Year of discovery: Unknown.

Distance to power supply: Onsite.

Discovery method: Do.

Process rate: Unknown.

Initial production: Not reported.

Product type: Coal.

Last production: Do.

Distance shipped: 1 km.

Past production: A few metric tons.

Destination: Placerville.

Annual production: Not reported.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 53-58, 73-74, 76, 106, 114, 116, 162,
179, 185, 233, 265, 273, 276, 280, 320,
377-379, 390-391, 399-400, 417.


USBM sequence number: 0020560042.
IDITAROD MINE
Commodity: Anthracite

LOCATION-OWNERSHIP
General location: 8 km southeast of Iditarod.
Meridian: Seward.
Tract: Sec. 28, T 28 N, R 47 W.
Latitude: 62°29’00” N.
Longitude: 158°00’52” W.

Owner: William Knox & Charles Krutsinger.
Operator: Unknown.

GEOLOGY
Formation name: Unnamed.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: N 38° E, 80° SE.
Coal seam average dimensions, m:
Length: Not reported.
Width: Do.
Thickness: 0.57.
Depth: 9.0.
Formation age: Tertiary.
Rock relationships: Shale lies over ore.
Slate lies under ore.
Coking ability: Not reported.
Heating value: 14,297-15,323 Btu/lb (281).
Composition, %:
Ash: 5.19-5.27.
Sulfur: 0.79-0.84.
Moisture: 1.33-1.52.
Fixed carbon: 85.60-91.76.

DEVELOPMENT
Current status: Exploration prospect.
Type of operation: Prospect.
Year of discovery: 1914.
Discovery method: Unknown.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.
Distance to water supply: 1.5 km.
Road requirement: 1.0 km.
Distance to power supply: Onsite.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES
No published reserve-resource information.

REFERENCES
USGS quadrangle maps... Iditarod, B-5.
USBM sequence number... 0020730033.

112
INNOKO RIVER 1

Commodity: Lignite

LOCATION-OWNERSHIP

General location: 83 km northwest of Ophir.

Meridian: Kateel River.

Tract: Sec. 14, T 05 E, R 22 S.

Latitude: 63° 35' 00" N.

Longitude: 157° 50' 40" W.

LOCATION-OWNERSHIP

General location: 83 km northwest of Ophir.

Meridian: Kateel River.

Tract: Sec. 14, T 05 E, R 22 S.

Latitude: 63° 35' 00" N.

Longitude: 157° 50' 40" W.

GEOLGY

Formation name: Unnamed.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Strike and dip of coal seam: Not reported.

Coal seam average dimensions, m:

Length: Do.

Width: Do.

Thickness: Do.

Depth: Outcrop.

DEVELOPMENT

Current status: Raw prospect.

Type of operation: Prospect.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 0.1 km.

Road requirement: Do.

Distance to power supply: Onsite.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 174, 179, 230, 273, 417.

USGS quadrangle maps... Ophir, C-4.

USBM sequence number... 0020640044.
INNOKO RIVER 2

Map No: 69
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Holy Cross.
Mining district.. Iditarod.
Coalfield........ Unnamed.
Elevation........ 22 m.
Topography...... Low-lying.
Domain........... Native.
Owner............. Unknown.
Operator......... Do.

General location.. 46 km northeast of Anvik.

Meridian.......... Seward.
Tract............... Sec. 34, T 32 N, R 54 W.
Latitude............ 62°49'10" N.
Longitude.......... 159°22'44" W.

GEOLGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of not reported.
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... Do.
Depth............. Do.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value...... 10,470-11,020 Btu/lb (146).
Composition, %:
Ash................ 14.5-15.3.
Sulfur............. 0.3.
Moisture.......... 5.0.
Volatile matter... 30.0-31.6.
Fixed carbon..... 50.5-53.1.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement......... Do.
Distance to power supply.. Onsite.

Process rate............. Not reported.
Product type............... Do.
Distance shipped........ Do.
Destination................ Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 174, 179, 185, 262, 265, 320, 417, 421.

USGS quadrangle maps... Holy Cross, D-1.

USBM sequence number... 0020720003.
NAHOCLATILLEN Mine

Map No: 70
Alternate names: Louden Mine, Yukon River-Louden
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Nulato. Mining district.. Hughes.
Coalfield....... Unnamed. Elevation....... 61 m.
Owner........... Unknown. Operator........ Do.

General location.. 21 km southeast of Galena.

Meridian........Kateel River.
Tract............Sec. 32, T 09 S, R 12 E.
Latitude.........64°40'00" N.
Longitude.......156°31'00" W.

GEOLOGY

Formation name.....Kaltag. Formation age.......Cretaceous.
Shape of coal seam. Tabular. Rock relationships..Shale lies over ore.
Coal controls.......Bedding. Sandstone lies under ore.
Strike and dip of N 55-60° E, 65° SE.
coal seam. Coking ability......Good.
Coal seam average Heating value.......10,170-11,430 Btu/lb (131).
dimensions, m. Ash............2.6-2.8.
Length...........91.4. Sulfur............0.4.
Width............Not reported. Moisture........7.9-8.5.
Thickness........0.6. Volatile matter...37.0-41.7.
Depth..........Outcrop. Fixed carbon......51.9-58.3.

DEVELOPMENT

Current status.....Exploration prospect. Distance to water supply..0.1 km.
Type of operation..Prospect. Road requirement........Do.
Year of discovery..Unknown. Distance to power supply..21 km.
Discovery method...Do.

Initial production..Not reported. Process rate..........Not reported.
Last production.....Do. Product type..........Do.
Past production.....Do. Distance shipped......Do.
Annual production...Do. Destination.........Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

45, 105, 115, 131-132, 179, 185, 265, 273, 312, 320, 395, 417, 421.

USGS quadrangle maps...Nulato, C-2.

USBM sequence number...0020550010.
KOYUKUK ISLAND

Map No: 71
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Nulato.
Mining district. Anvik.
Coalfield........ Unnamed.
Elevation........ 43 m.
Topography....... Low-lying.
Domain........... Native.

General location.. 38 km northwest of Galena.
Meridian......... Kateel River.
Tract........... Sec. 10, T 07 S, R 06 E.
Latitude........ 64°54′07″ N.
Longitude...... 157°38′07″ W.

Owner............. Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal body average dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... Do.
Depth............ Outcrop.

Formation age....... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability....... No.
Heating value....... 1.4 (Fuel ratio) (131).
Composition, %:
Ash................ 12.95.
Sulfur............. Not reported.
Moisture........... 4.47.
Volatile matter... 34.32.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Distance to water supply.. 0.1 km.
Road requirement....... Do.
Distance to power supply.. 38 km.

Year of discovery.. Unknown.
Discovery method... Do.

Process rate........ Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination........... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

45, 64, 105, 131, 185, 265, 273,
312, 320, 335, 354, 355, 454.

USGS quadrangle maps... Nulato, D-4.
USBM sequence number... 0020550013.

116
PICKART MINE

Map No: 72
Alternate names: Yukon River-Nulato
Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

Quadrangle...... Nulato.
Mining district.. Anvik.
Coalfield....... Nulato.
Elevation....... 137 m.
Topography...... Gently rolling.
Domain........... Native.
Owner........... Pickart brothers, Alaskan Commercial Company.
Operator......... W.E. Williams.

GEOLOGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of N 75° E, 35° N.
coal seam.
Coal seam average
dimensions, m.
Length.......... Not reportwed.
Width........... Do.
Thickness....... 0.76.
Depth........... Outcrop.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. 1898.
Last production.... 1902.
Past production..... Not reported.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 45, 105, 115, 131-132, 179,
185, 205, 265, 273, 312, 320,

USGS quadrangle maps... Nulato, D-4.
USBM sequence number... 0020550009.
NULATO COAL BED

Commodity: Bituminous

LOCATION-OWNERSHIP

General location... 20 km north of Nulato.

Quadrangle........ Nulato.
Mining district... Anvik.
Coalfield........... Nulato.
Elevation.......... 152 m.
Topography........ Gently rolling.
Domain............. BLM-administrated.

Owner............. Unknown.
Operator........... Do.

GEOLGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. N 10° E, 40° NW.
Coal seam average dimensions, m.
Length........... Not reported.
Width............... Do.
Thickness......... 0.76.
Depth............... Outcrop.

Coking ability...... Not reported.
Heating value....... 13,350-13,730 Btu/lb (146).
Composition, %:
Ash.................. 4.9-5.0.
Sulfur.............. 0.9.
Moisture........... 2.8.
Volatile matter... 22.5-23.1.
Fixed carbon..... 69.8-71.9.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply... 0.1 km.
Road requirement.......... 9 km.
Distance to power supply.. 20 km.

Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Nulato, D-5.

USBM sequence number... 0020550014.
BUSCH MINE

Map No: 74
Alternate names: Bush Mine, Yukon River-Nulato
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Nulato.
Mining district..... Anvik.
Coalfield.......... Nulato.
Elevation.......... 122 m.
Topography........ Gently rolling.
Domain............ Native.
Owner............... Unknown.
Operator........... Do.

General location.. 6.5 km southwest of Nulato.
Meridian........... Kateel River.
Tract............... Sec. 26, T 09 S, R 03 E.
Latitude........... 64°41'10" N.
Longitude.......... 158°13'30" W.

GEOLOGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of N 28° E, 40° W.
Coal seam average dimensions, m.
Length............ Not reported.
Width............. Do.
Thickness......... 1.4.
Depth............. Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone encloses ore.
Coking ability..... Poor.
Heating value...... 1.76 (Fuel ratio) (131).
Composition, %:
Ash.................. 7.33.
Sulfur.............. 0.44.
Moisture........... 11.17.
Volatile matter... 29.48.
Fixed carbon....... 52.02.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1903.
Last production..... Do.
Past production..... 441 mt.
Annual production... Do.

Process rate......... Unknown.
Product type......... Coal.
Distance shipped.... 6.5 km.
Destination.......... Nulato.

Distance to water supply.. 1.0 km.
Road requirement......... Do.
Distance to power supply.. 6.5 km.

PUBLISHED RESERVES-RESOURCES

No reported reserve-resource information.

REFERENCES

35, 45, 105, 115, 131-132, 179, 185, 205, 265, 273, 312, 320, 395, 417.
USGS quadrangle maps... Nulato, C-5.
USBM sequence number... 0020550008.
BLATCHFORD MINE

Map No: 75
Alternate names: Blatsford Mine, Yukon River-Nulato
Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

Quadrangle........ Nulato.
Mining district.. Anvik.
Coalfield........ Nulato.
Elevation........ 152 m.
Topography....... Gently rolling.
Domain............ Native.

General location.. 14.5 km southwest of Nulato.
Meridian......... Kateel River.
Tract............ Sec. 17, T 10 S, R 03 E.
Latitude.......... 64°37'13" N.
Longitude........ 158°18'00" W.

Owner............. Northern Commercial Company.
Operator........... Do.

GEOLOGY

Formation name..... Kaltug.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of   N 70° E, 45-55° NW.
Coal seam average dimensions, m.
Length........... 6.1.
Width............ Not reported.
Thickness......... 2.4.
Depth............ Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
                      Shale lies under ore.
Coking ability...... Fair.
Heating value....... 13,350-14,460 Btu/lb (115).
Composition, %:
               Ash............ 2.22-5.0.
               Sulfur........... 0.52-0.9.
               Moisture........ 1.36-2.8.
               Volatile matter.. 22.44-24.3.
               Fixed carbon.... 69.8-75.7.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. 1866.
Discovery method... Prospecting.

Initial production.. 1900.
Last production..... 1913.
Past production..... 331 mt.
Annual production... 110 mt.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. Onsite.

Process rate.......... Unknown.
Product type.......... Coal.
Distance shipped....... 14.5 km.
Destination........... Nulato and riverboats.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Nulato, C-5.

USBM sequence number... 0020550007.
ADOLPH MULLER PROSPECT

Map No: 76
Alternate names: Kaltag Prospect, Yukon River-Kaltag
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Nulato.
Mining district... Anvik.
Coalfield........ Nulato.
Elevation....... 183 m.
Topography...... Gently rolling.
Domain.......... Native.

Owner.......... Unknown.
Operator......... Do.

General location.. 6 km south of Kaltag Station.
Meridian........ Kateel River.
Tract............ Sec. 04, T 15 S, R 01 E.
Latitude......... 64°12'55" N.
Longitude........ 158°40'40" W.

GEOLOGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N-W, 30° N.
Coal seam average
dimensions, m.
Length............... 61.
Width............... Not reported.
Thickness........... 1.4.
Depth............... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone encloses ore.
Coking ability...... No.
Heating value....... 9,470-13,250 Btu/lb (115).
Composition, %:
Ash.................. 21.5-23.1.
Sulfur............... 0.5-0.7.
Moisture............ 7.0.
Volatile matter... 24.3-34.0.
Fixed carbon...... 47.2-66.0.

DEVELOPMENT

Current status...... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate......... Not reported.
Product type......... Do.
Distance shipped.... Do.
Destination......... Do.

Distance to water supply.. 1.0 km.
Road requirement....... Do.
Distance to power supply.. Onsite.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 45, 105, 115, 145, 174, 185, 205, 265, 273, 320, 417.
USGS quadrangle maps... Nulato, A-6.
USBM sequence number... 0020550005.
OLD WOMAN

Map No: 77
Alternate names: None
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle....... Norton Bay.
Mining district.. Anvik.
Coalfield....... Unnamed.
Elevation....... 122 m.
Topography....... Gently rolling.
Domain.......... BLM-administrated.
Owner........... Unknown.
Operator....... Do.

General location.. 122 km southeast of Koyuk.
Meridian....... Kateel River.
Tract.......... Sec. 27, T 16 S, R 05 W.
Latitude....... 64°04'41" N.
Longitude....... 159°38'35" W.

GEOLOGY

Formation name..... Unknown.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length.......... Do.
Width.......... Do.
Thickness....... 5.2.
Depth.......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value....... Do.
Composition, %:
Ash............. Do.
Sulfur.......... Do.
Moisture....... Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

104, 179, 205, 273.
USGS quadrangle maps... Norton Bay, A-2.
USBM sequence number... 0020540010.
STEAMBOAT SLOUGH

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle......... Unalakleet.
Mining district.. Anvik.
Coalfield....... Unnamed.
Elevation......... 30 m.
Topography....... Flat-lying.
Domain.............. BLM-administrated.
Owner............... Unknown.
Operator.......... Do.

General location.. 74 km southwest of Kaltag.
Meridian.......... Kateel River.
Tract............... Sec. 35, T 18 S, R 03 W.
Latitude.......... 63°53′33″ N.
Longitude......... 159°10′50″ W.

GEOLOGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 55° E, 20° NW.
Coal seam average
dimensions, m.
Length.............. Not reported.
Width.............. Do.
Thickness......... Do.
Depth.............. Do.

Formation age...... Cretaceous.
Rock relationships.. Sandstone lies over ore.
Shale Lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................... Do.
Sulfur.............. Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Distance to water supply.. 0.1 km.
Road requirement......... Do.
Distance to power supply.. Onsite.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped........ Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

107, 115, 179, 205, 273.

USGS quadrangle maps... Unalakleet, D-1.
USBM sequence number... 0020630009.
WILLIAMS MINE

Alternate names: Whelp and Thein, Thein Mine, W.E. Williams
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Unalakleet.
Mining district... Anvik.
Coalfield......... Unnamed.
Elevation......... 99 m.
Topography...... Steep slope.
Domain.......... State.

General location.. 80 km southwest of Kaltag.
Meridian......... Kateel River.
Tract............ Sec. 22, T 19 S, R 03 W.
Latitude......... 63°50'08" N.
Longitude....... 159°13'12" W.

Owner............. Clemens Thein (1900)/W.E. Williams (1902).
Operator........ Do.

GEOLOGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. N 70° W, 45° W.
Coal seam average dimensions, m.
   Length........ Not reported.
   Width......... 122.
   Thickness..... 0.99.
   Depth......... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Sandstone encloses ore.
   Conglomerate encloses ore.
Coking ability...... Poor.
Heating value....... 1.22-1.55 (Fuel ratio) (131).
Composition, %:
   Ash............. 3.53-8.63.
   Sulfur........... 0.4-0.53.
   Moisture......... 6.15-7.17.
   Volatile matter... 33.05-46.46.
   Fixed carbon..... 49.86-51.15.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1897.
Discovery method... Unknown.

Initial production.. 1900.
Last production.... 1902.
Past production.... 1,874 mt.
Annual production... Not reported.

Process rate............ Unknown.
Product type............ Coal.
Distance shipped....... 0.1 km.
Destination............ Riverboat.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

45, 107, 115, 131-132, 179, 185, 265, 273, 320, 417, 454.
USGS quadrangle maps... Unalakleet, D-1.
USBM sequence number... 0020630004.
COAL MINE CREEK

Map No: 80
Alternate names: Mine Creek, Unalakleet
Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle........ Unalakleet.
Mining district.... Anvik.
Coalfield......... Unnamed.
Elevation......... 46 m.
Topography........ Gently rolling.
Domain............ Native.

General location.. 14 km south of Unalakleet.
Meridian......... Kateel River.
Tract............. Sec. 14, T 20 S, R 11 W.
Latitude........... 63°45'00" N.
Longitude......... 160°45'00" W.

Owner............... Unknown.
Operator........... Do.

FORMATION

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... 2.4.
Depth............. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value...... 9,430-12,530 Btu/lb (146).
Composition, %:
Ash................ 4.2-8.2.
Sulfur............. 0.3-0.6.
Moisture.......... 10.7-18.0.
Volatile matter... 41.8-55.5.
Fixed carbon...... 33.5-44.5.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. 1897.
Discovery method... Unknown.
Initial production.. 1918.
Last production.... 1934.
Past production.... 331 mt.
Annual production... Not reported.

Process rate......... Unknown.
Product type......... Coal.
Distance shipped..... 100 km.
Destination........... Nome and St. Michaels.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

1, 35, 107, 109, 141, 145-146, 185, 237, 265, 273, 310, 320, 355, 382-385, 417, 427.

USGS quadrangle maps... Unalakleet, C-4.

USBM sequence number... 0020630001.
ANVIK RIVER

Commodity: Bituminous

LOCATION-OWNERSHIP

General location... 45 km southeast of Unalakleet.

Meridian........ Kateel River.

Tract........... Sec. 14, T 22 S, R 08 W.

Latitude.......... 63°35’19” N.

Longitude........ 160°09’15” W.

GEOLOGY

Formation name..... Kaltag.

Formation age....... Cretaceous.

Shape of coal seam. Tabular.

Rock relationships.. Sandstone lies over ore.

Coal controls...... Bedding.

Shale lies under ore.

Strike and dip of Not reported.

coal seam.

Coking ability...... Not reported.

Coal seam average

Heating value....... Do.

Composition, %:

dimensions, m.

Ash.............. Do.

Length............ Do.

Sulfur............. Do.

Width............. Do.

Moisture.......... Do.

Thickness....... 1.8.

Volatile matter... Do.

Depth........ Outcrop.

Fixed carbon...... Do.

DEVELOPMENT

Current status...... Raw prospect.

Distance to water supply... 0.1 km.

Type of operation.. Prospect.

Road requirement........ 45 km.

Year of discovery.. Unknown.

Distance to power supply.. Do.

Discovery method... Do.

Process rate,........ Not reported.

Initial production.. Not reported.

Product type........ Do.

Last production..... Do.

Distance shipped...... Do.

Past production..... Do.

Destination.......... Do.

Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

107, 131, 179, 186, 203, 205, 273, 417.

USGS quadrangle maps... Unalakleet, C-3.

USBM sequence number... 0020630008.
ALASKAN COMMERCIAL COMPANY

Map No: 82
Alternate names: Coal Mine No. 1
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Unalakleet.
Mining district.. Anvik.
Coalfield....... Unnamed.
Elevation....... 69 m.
Topography...... Steep slope.
Domain.......... BLM-administrated.

General location.. 102 km northeast of Anvik.

Meridian........ Kateel River.
Tract............ Sec. 19, T 22 S, R 04 W.
Latitude........ 63°33'45" N.
Longitude....... 159°31'00" W.

Owner............ Alaskan Commercial Company.
Operator......... W.E. Williams.

GEOLOGY

Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 60° W, 35° SW.
coal seam.

Formation age...... Cretaceous.
Rock relationships.. Sandstone encloses ore.
Coking ability...... Poor.
Heating value........ 12,010-13,820 Btu/lb (115).

Composition, %:
Ash............ 4.91-9.5.
Sulfur............ 0.21-0.4.
Moisture........... 3.6-4.82.
Volatile matter... 33.8-38.9.
Fixed carbon...... 53.1-61.1.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1897.
Discovery method... Unknown.

Initial production... 1898.
Last production.... Do.
Past production...... 992 mt.
Annual production... Do.

Process rate......... Unknown.
Product type.......... Coal.
Distance shipped...... 0.1 km.
Destination........... Riverboat.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 107, 115, 131, 179, 185, 265, 273, 320, 417, 454.
USGS quadrangle maps... Unalakleet, C-2.
USBM sequence number... 0020630003.
BLACKBURN MINE

Commodity: Bituminous

LOCATION-OWNERSHIP

General location... 81 km northeast of Anvik.
Meridian.......... Kateel River.
Tract............. Sec. 26, T 24 S, R 05 W.
Latitude.......... 63°22'42" N.
Longitude......... 159°33'45" W.

GEOLOGY

Formation name..... Kaltag.
Formation age....... Cretaceous.
Rock relationships.. Not reported.

Shape of coal seam. Tabular.
Strike and dip of coal seam. Not reported.
Coal controls...... Bedding.
Coking ability...... Do.
Heating value....... Do.

Coal seam average dimensions, m.
Length.......... Do.
Composition, %:
Length
Width......... Do.
Thickness------- 0.9.
Ash............... Do.
Sulfur.......... Do.
Moisture........ Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply... Onsite.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Process rate........ Not reported.
Last production..... Do.
Product type........ Do.
Past production..... Do.
Distance shipped....... Do.
Annual production... Do.
Destination........ Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 179, 185, 205, 265, 273, 320, 417.
USGS quadrangle maps... Unalakleet, B-2.
USBM sequence number... 0020630007.
HALLS RAPIDS

Map No: 84
Alternate names: None
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Unalakleet.
Mining district.. Anvik.
Coalfield....... Unnamed.
Elevation....... 30 m.
Topography...... Gentle slope.
Domain.......... BLM-administrated.

General location.. 48 km northeast of Anvik.
Meridian........ Kateel River.
Tract........... Sec. 10, T 28 S, R 06 W.
Latitude........ 63°04'55" N.
Longitude....... 159°47'00" W.

Geological setting:
Formation name..... Kaltag.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... 61.
Width............. Not reported.
Thickness......... 0.15.
Depth............. Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Tuffs enclose ore.
Coking ability...... Poor.
Heating value...... 1.35 (Fuel ratio) (131).
Composition, %:
Ash................ 2.81.
Sulfur............ 0.42.
Moisture.......... 8.23.
Volatile matter... 37.88.
Fixed carbon...... 51.08.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1897.
Discovery method... Unknown.

Process rate.......... Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

107, 131, 179, 185, 205, 265, 273, 320, 417.
USGS quadrangle maps... Unalakleet, A-2.
USBM sequence number... 0020630002.
STUYAHOK RIVER

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location... 48 km southwest of Anvik.

Meridian........ Seward.
Tract............ Sec. 33, T 26 N, R 62 W.
Latitude.......... 62°18'28" N.
Longitude......... 160°46'08" W.

GEOLOGY

Formation name..... Unnamed.
Formation age....... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. Onsite.

Year of discovery.. Unknown.
Discovery method... Do.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination.......... Do.

Past production.... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

179, 262, 417.
USGS quadrangle maps... Holy Cross, B-4.

USBM sequence number... 0020720008.

132
NELSON ISLAND

Commodity: Bituminous & subbituminous

LOCATION-OWNERSHIP

Quadrangle........ Nunivak Island.
Mining district.... Bethel.
Coalfield......... Unnamed.
Elevation......... 152 m.
Topography....... Steep slope.
Domain............ Native.

General location.. 3 km northeast of Tanunak.
Meridian.......... Seward.
Tract............. Sec. 22, T 06 N, R 91 W.
Latitude.......... 60°36'03" N.
Longitude........ 165°13'39" W.

Operator.......... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
  Length......... Do.
  Width......... Do.
  Thickness..... 0.46.
  Depth......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Siltstone encloses ore.
Coking ability...... Not reported.
Heating value....... 9,910-15,130 Btu/lb (146).
Composition, %:
  Ash................. 14.2-32.3.
  Sulfur........... 0.4-0.8.
  Moisture......... 1.6-3.9.
  Volatile matter.. 19.1-31.5.
  Fixed carbon..... 47.1-75.0.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1900.
Discovery method... Unknown.
Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. 1.5 km.
Road requirement........ 3 km.
Distance to power supply.. Do.

Process rate........ Not reported.
Product type......... Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 35, 144-146, 174, 185, 265, 273, 320, 417, 421, 454.
USGS quadrangle maps... Nunivak Island, C-1.
USBM sequence number... 0020890001.

133
NORTH FORK OF EEK RIVER

Map No: 87
Alternate names: None
Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle........ Bethel.
Mining district.. Do.
Coalfield.......... Unnamed.
Elevation.......... 183 m.
Topography....... Low-lying.
Domain............ National Wildlife Refuge.
Operator......... Unknown.

General location.. 89 km southeast of Bethel.
Meridian......... Seward.
Tract............ Sec. 21, T 01 N, R 66 W.
Latitude.......... 60°09'54" N.
Longitude........ 160°44'45" W.

LOCATION-OWNERSHIP

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length......... Do.
Width........... Do.
Thickness....... 0.2.
Depth............ Outcrop.

Formation age..... Tertiary.
Rock relationships.. Shale lies over ore.
Graywacke lies under ore.
Coking ability..... Not reported.
Heating value..... Do.
Composition, %:
Ash................. Do.
Sulfur............. Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1912.
Discovery method... Unknown.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement......... Do.
Distance to power supply.. Onsite.

Process rate........ Not reported.
Product type......... Do.
Distance shipped....... Do.
Destination......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 201, 204, 273, 312, 320, 417.
USGS quadrangle maps... Bethel, A-5.
USBM sequence number... 0020910018.
BIG RIVER

Map No: 88
Alternate names: None

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... McGrath.
Mining district.. Do.
Coalfield....... Unnamed.
Elevation........ 244 m.
Topography...... Low-lying.
Domain.......... BLM-administrated.
Owner........... Unknown.
Operator........ Do.

General location.. 80 km southeast of McGrath.
Meridian........ Seward.
Tract............ Sec. 21, T 25 N, R 32 W.
Latitude.......... 62°15'00" N.
Longitude........ 155°15'00" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............ Do.
Thickness....... Do.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value....... Do.
Composition, %:
Ash................... Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

59, 72, 158, 179, 185, 265, 273, 320-321, 364, 392, 417.

USGS quadrangle maps... McGrath, A-5.
USBM sequence number... 0020740051.

135
CHEENEETNUK RIVER

Commodity: Subbituminous & bituminous

LOCATION-OWNERSHIP


General location.. 101 km south of McGrath. Meridian........ Seward. Tract............ Sec. 08, T 22 N, R 32 W. Latitude........ 62°01'08" N. Longitude....... 155°11'20" W.

GEOLOGY


DEVELOPMENT

Current status..... Raw prospect. Type of operation.. Prospect Year of discovery.. 1965. Discovery method... Unknown. Initial production.. Not reported. Last production..... Do. Past production..... Do. Annual production... Do.

Distance to water supply.. 0.1 km. Road requirement........ 33 km. Distance to power supply.. Onsite. Process rate........ Not reported. Product type........ Do. Distance shipped....... Do. Destination......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

158, 179, 266, 269, 273, 321, 361, 371, 417. USGS quadrangle maps... McGrath, A-5. USBM sequence number... 0020740054.
WINDY FORK - KUSKOKWIM RIVER

Map No: 90
Alternate names: None
Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... McGrath.
Mining district.. Do.
Coalfield....... Unnamed.
Elevation....... 434 m.
Topography...... Gentle slope.
Domain.......... BLM-administrated.

General location.. 92 km southeast of
McGrath.

Meridian......... Seward.
Tract............ Sec. 24, T 27 N, R 27 W.
Latitude........ 62°25'22" N.
Longitude....... 154°10'58" W.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  N 23° E, 37-40° S coal seam.
Coal seam average dimensions, m.
Length............ Not reported.
Width............. Do.
Thickness....... 1.8.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 3,968-12,711 Btu/lb (372).

Composition, %:
Ash................ 29.9-64.0.
Sulfur............. 0.1-0.8.
Moisture........... 1.9-4.0.
Volatile matter... 18.7-76.9.
Fixed carbon...... 8.9-53.7.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ Do.
Distance to power supply.. Onsite.

Process rate........ Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

21, 158, 179, 267-269, 273, 361, 370-372, 417.

USGS quadrangle maps... McGrath, B-3.
USBM sequence number... 0020740053.
LITTLE TONZONA RIVER

Map No: 91
Alternate names: Brazil Creek, Knee Deep Creek, Deepbank Creek
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle........ McGrath.
Mining district.... Do.
Coalfield......... Unnamed.
Elevation.......... 680 m.
Topography........ Gentle slope.
Domain............ BLM-administered.

General location.. 38 km northeast of Farewell Lake Lodge.
Meridian......... Seward.
Tract............. Sec. 27, T 31 N, R 20 W.
Latitude.......... 62°45'17" N.
Longitude........ 150°00'18" W.

Owner............ Canadian Superior Exploration Company.
Operator......... Doyon, Ltd.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 73° E, 47-63° NW.
Coal seam average dimensions, m.
Length............ Not reported.
Width............... Do.
Thickness......... 38.7.
Depth............. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Siltstone lies under ore.
Coking ability...... Not reported.
Heating value....... 7,663-11,277 Btu/lb (268).
Composition, %:
Ash................ 10.84-13.75.
Sulfur............. 1.11-1.63.
Moisture........... 21.21.
Volatile matter... 37.59-55.33.
Fixed carbon....... 30.36-44.67.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1902.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 35 km.
Distance to power supply.. Onsite.

Process rate........ Not reported.
Product type......... Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

Resources: estimated; 1,500 million short tons (269).
REFERENCES


USGS quadrangle maps... McGrath, D-1.

USBM sequence number... 0020740055.
JOHNSON CREEK

Commodity: Subbituminous & lignite

LOCATION-OWNERSHIP

Quadrangle........ Talkeetna.
Mining district... Yentna.
Coalfield......... Beluga-Yentna.
Elevation........ 226 m.
Topography....... Low-lying.
Domain............ State.

General location.. 77 km southwest of Petersville.

Meridian......... Seward.
Tract.............. Sec. 31, T 23 N, R 14 W.
Latitude.......... 62°02'28" N.
Longitude........ 151°54'25" W.

Owner.............. Mobil Mineral Resources, Inc.
Operator........... Do.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of N 18° W, 16-20°.
coal seam.
Coal seam average
dimensions, m.
Length............ Not reported.
Width.............. Do.
Thickness......... 7.6.
Depth............. Outcrop.

Formation age....... Tertiary.
Rock relationships: Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability..... Not reported.
Heating value....... 5,400-9,450 Btu/lb (46).

Composition, %:
Ash................ 6-40.
Sulfur............. 0.1-0.2.
Moisture.......... 20.0-30.0.
Volatile matter... Not reported.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 25 km.
Distance to power supply.. Outcrop.

Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

Resources: Identified; 500 million short tons (46).

REFERENCES

USGS quadrangle maps... Talkeetna, A-4.
USBM sequence number... 0020750001.
CANYON CREEK

Map No: 132
Alternate names: Johnson Creek

Commodity: Subbituminous C & lignite

LOCATION-OWNERSHIP

Quadrangle........ Tyonek.
Mining district.. Yentna.
Coalfield....... Beluga-Yentna.
Elevation........ 470 m.
Topography....... Gentle slope.
Domain.......... State.

Owner.......... Mobil Mineral Resources, Inc.
Operator....... Do.

General location.. 30 km southwest of Skwentna.
Meridian........ Seward.
Tract............ Sec. 07, T 20 N, R 13 W.
Latitude.......... 61°50'18" N.
Longitude........ 151°42'28" W.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 18° W, 10-15° E.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 8.5.
Depth............. 61.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Conglomerate lies under ore.
Coking ability...... Not reported.
Heating value....... 5,400-9,450 Btu/lb (46).
Composition, %:
Ash.................. 6-40.
Sulfur............. 0.1-0.2.
Moisture........... 20-30.
Volatile matter... Not reported.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate......... Not reported.
Product type.......... Do.
Distance shipped....... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

Reserves: Identified; 500 million short tons (46).

REFERENCES

8, 36, 46, 78-79, 102, 165, 269, 272-273, 417.

USGS quadrangle maps... Tyonek, D-5.
USBM sequence number... 0020840040.
SHORT CREEK
Map No: 94
Alternate names: Cache or Short Creek Mine.
Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle....... Talkeetna.
Mining district.. Yentna.
Coalfield........ Beluga-Yentna.
Elevation....... 520 m.
Topography...... Gentle slope.
Domain.......... State.

General location.. 14 km west of Petersville.

Owner........... Cache Creek Dredging Co.
Operator........ Do.

FORMATION name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length.......... Do.
Width........... Do.
Thickness....... 2.4.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur........... Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1916.
Last production..... 1918.
Past production..... Not reported.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement....... 2 km.
Distance to power supply.. Onsite.

Process rate............. 22 mt/d.
Product type............ Coal.
Distance shipped........ 14 km.
Destination........... Petersville.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

91, 102, 161, 185, 236, 265, 273, 278, 320, 339, 361, 392, 400, 417.
USGS quadrangle maps... Talkeetna, B-3.
USBM sequence number... 0020750035.
BLUFF CREEK

Commodity: Lignite

LOCATION-OWNERSHIP

General location: 24 km northeast of Petersville.
Meridian: Seward.
Tract: Sec. 23, T 30 N, R 07 W.
Latitude: 62°40'40" N.
Longitude: 150°31'55" W.

LOCATION-OWNERSHIP

Quadrangle: Talkeetna.
Mining district: Yentna.
Coalfield: Beluga-Yentna.
Elevation: 600 m.
Topography: Gentle slope.
Domain: National Park.
Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Tyonek.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m:
Length: Do.
Width: Do.
Thickness: Do.
Depth: Do.

Formation age: Tertiary.
Rock relationships: Not reported.
Coking ability: Do.
Heating value: Do.
Composition, %:
Ash: Do.
Sulfur: Do.
Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: Unknown.
Discovery method: Do.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: 5 km.
Distance to power supply: Onsite.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

102, 185, 265, 273, 320, 339, 417.
USGS quadrangle maps... Talkeetna, C-2.
USBM sequence number... 0020750036.

143
COAL CREEK

Map No: 96
Alternate name: None

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle..... Mt. McKinley.
Mining district.. Kantishna.
Coalfield....... Nenana.
Elevation....... 1219 m.
Topography....... Rugged.
Domain........... National Park.

General location.. 41 km southwest of Toklat Ranger Station.
Meridian......... Fairbanks.
Tract............. Sec. 36, T 18 S, R 17 W.
Latitude.......... 63°18'23" N.
Longitude........ 150°42'57" W.

Owner........... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.

Formation age..... Tertiary.
Rock relationships.. Not reported.

Coking ability...... Do.
Heating value....... Do.
Composition, %:
Ash.................. Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

72, 89, 101, 185, 273, 318, 320, 340, 417.

USGS quadrangle maps... Mt. McKinley, B-2.
USBM sequence number... 0020660046.

144
COAL CREEK

Map No: 97
Alternate names: Accolade Mines, Inc., Coal Creek Mine Complex

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle....... Healy.
Mining district.. Bonnifield.
Coalfield....... Broad Pass.
Elevation....... 732 m.
Topography...... Gentle slope.
Domain.......... Native.

Owner.......... Unknown.
Operator........ Do.

General location.. 22 km southwest of Cantwell.

Meridian....... Fairbanks.
Tract.......... Sec. 23, T 19 S, R 09 W.
Latitude....... 63°15'11" N.
Longitude...... 149°12'15" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam.
Coal seam average dimensions, m.
Length.......... Do.
Width........... Do.
Thickness....... 2.4.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Claystone lies under ore.
Coking ability...... Not reported.
Heating value...... 6,395-11,100 Btu/lb (335).
Compostition, %:
Sulfur........... 0.15-0.26.
Moisture......... 28.32.
Volatile matter... 33.53-58.20.
Fixed carbon...... 24.08-41.80.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. 1920.
Last production..... mid 1940's.
Past production.... 2,866 mt.
Annual production... Not reported.

Process rate........... Unknown.
Product type......... Coal.
Distance shipped.... 2 km.
Destination.......... Railroad.

PUBLISHED RESERVES-RESOURCES

Resources: Strippable; 100,000 short tons (43).
REFERENCES

3, 19, 43, 72, 87, 95, 185, 234, 265, 268, 270, 273, 320, 323, 356-357, 361.

USGS quadrangle maps... Healy, B-5.

USBM sequence number... 0020670130.
BROAD PASS

Map No: 97
Alternate names: Broad Pass Mine Complex, Archie Lewis Tunnel
Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle....... Healy.
Mining district.. Bonnfield.
Coalfield....... Broad Pass.
Elevation....... 671 m.
Topography....... Flat lying.
Domain.......... Native.

Owner............ Broad Pass Coal and Development Co.
Operator.......... W.A. Havner.

General location.. 25 km southwest of Cantwell.
Meridian........ Fairbanks.
Tract............ Sec. 27, T 19 S, R 09 W.
Latitude........ 63°14'15" N.
Longitude....... 149°15'20" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Horizontal, 2-9° S.
coal seam.
Coal seam average
dimensions, m.
Length............... 243.8.
Width............... Not reported.
Thickness......... 2.7.
Depth........... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Claystone lies under ore.
Coking ability...... No.
Heating value....... 5,720-11,670 Btu/lb (146).
Composition, %:
Ash.................. 10.6-29.7.
Sulfur............... 0.2-0.5.
Volatile matter... 27.8-58.2.
Fixed carbon...... 20.7-46.3.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. 1920.
Last production..... 1922.
Past production.... 1,306 mt.
Annual production... Not reported.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. 1 km.
Process rate........... Unknown.
Product type........... Coal.
Distance shipped....... 2 km.
Destination........... Railroad.

PUBLISHED RESERVES-RESOURCES

Broad Pass field: Measured reserves; 10 million short tons (78).
Indicated reserves; 50 million short tons.
Hypothetical reserves: 500 million short tons.

147
REFERENCES


USGS quadrangle maps... Healy, A-5.

USBM sequence number... 0020670131.
W.E. DUNKLE COAL MINE

Map No: 98
Alternate names: Costello Creek Coal Mine, Dunkle Camp Creek, Coal Creek, Camp Creek
Commodity: Subbituminous B

LOCATION-OWNERSHIP

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coalfield....... Unnamed.
Elevation........ 808 m.
Topography...... Gentle slope.
Domain.......... National Park.

General location.. 32 km southwest of Cantwell.
Meridian........ Fairbanks.
Tract............ Sec. 18, T 19 S, R 10 W.
Latitude.......... 63°16'13" N.
Longitude....... 149°31'40" W.

Owner........... Henry Stevens and Frank Wells.
Operator......... Unknown.

GEOLOGY

Formation name..... Healy Creek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 30° E, 10-12° SE.
Coal seam average dimensions, m.
Length........... 365.8.
Width............. Not reported.
Thickness.......... 1.3.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Conglomerate lies under ore.
Coking ability...... No.
Heating value....... 9,700-13,580 Btu/lb (146).
Composition, %:
Ash................ 6.0-15.5.
Sulfur............. 0.4-0.8.
Volatile matter... 32.0-46.8.
Fixed carbon...... 36.9-55.8.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1911.
Discovery method... Prospecting.

Initial production.. 1940.
Last production..... 1954.
Past production..... 70,547 mt.
Annual production... Not reported.

Distance to water supply.. Onsite.
Road requirement....... Existing.
Distance to power supply.. 32 km.
Process rate......... Not reported.
Product type......... Coal.
Distance shipped..... Not reported.
Destination......... Do.

PUBLISHED RESERVES-RESOURCES

Reserves: Measured; 33,670 short tons (351).
Indicated; 232,120 short tons.
Inferred; 134,480 short tons.
REFERENCES


USGS quadrangle maps... Healy, B-6.

USBM sequence number... 0020670192.
STONY MOOSE DIVIDE

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location... 16 km southwest of Toklat Ranger Station.

Meridian.......... Fairbanks.
Tract............. Sec. 12, T 17 S, R 15 W.
Latitude.......... 63°27'21" N.
Longitude......... 150°21'00" W.

GEOLOGY

Formation age....... Tertiary.
Rock relationships.. Shale encloses ore.

Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................. Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Distance to water supply.. 0.5 km.
Road requirement........ 4.5 km.
Distance to power supply.. Onsite.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

89, 91, 93, 97, 101, 185, 211, 273, 289, 320, 340, 416-417.

USGS quadrangle maps... Mt. McKinley, B-1.
USBM sequence number... 0020660011.
SABLE MOUNTAIN

Map No: 100
Alternate names: Mile Post 39 Mt. McKinley
National Park

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... Healy.
Mining district.. Kantishna.
Coalfield....... Nenana.
Elevation....... 1067 m.
Topography....... Steep slope.
Domain......... National Park.

General location.. 51 km southwest of Healy.
Meridian......... Fairbanks.
Tract............ Sec. 31, T 15 S, R 11 W.
Latitude.......... 63°34'00" N.
Longitude....... 149°46'05" W.

Owner......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 80° W, 60° S.
c coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness....... 4.3.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sand encloses ore.
Gravel encloses ore.
Coking ability...... No.
Heating value....... 6,610 Btu/lb (416).
Composition, %:
Ash................ 9.3.
Sulfur............. 0.3.
Moisture......... 32.0.
Volatile matter... 34.6.
Fixed carbon....... 24.1.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement......... 1.0 km.
Distance to power supply.. 51 km.

Process rate.......... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 3, 89, 185, 211, 265, 270, 273, 320, 416.
USGS quadrangle maps... Healy, C-6.
USBM sequence number... 0020670078.
POLYCHROME MOUNTAIN

Map No: 100
Alternate names: Polychrome Mine, Alaska Road Commission, Mile Post 42
Mt. McKinley National Park

Commodity: Subbituminous B

LOCATION-OWNERSHIP

Quadrangle........ Healy.
Mining district..... Kantishna.
Coalfield......... Nenana.
Elevation.......... 1097 m.
Topography....... Gentle slope.
Domain............ National Park.

General location.. 56 km southwest of Healy.
Meridian......... Fairbanks.
Tract............. Sec. 11, T 16 S, R 12 W.
Latitude.......... 63°32'19" N.
Longitude......... 149°49'35" W.

Owner............ Unknown.
Operator.......... Do.

FORMATION

Formation name..... Healy Creek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  N 70° E, 30° S.
coal seam.
Coal seam average dimensions, m.
Length............ Not reported.
Width............ 91.4.
Thickness........ 1.8.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Gravel lies over ore.
Claystone lies under ore.
Coking ability...... No.
Heating value....... 9,050-12,500 Btu/lb (146).
Composition, %:
Ash................ 5.7-7.3.
Sulfur............. 0.5-0.6.
Volatile matter... 36.9-50.9.
Fixed carbon...... 35.6-49.1.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. Unknown.
Discovery method... Do.

Distance to water supply.. 0.1 km.
Road requirement......... Do.
Distance to power supply.. 56 km.

Initial production.. Not reported.
Last production..... Do.
Past production.... Do.
Annual production... Do.

Process rate........ Unknown.
Product type......... Coal.
Distance shipped..... Unknown.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Healy, C-6.

USBM sequence number... 0020670079.
TEKLANIKA RIVER

Commodity: Bituminous & subbituminous

LOCATION-OWNERSHIP

Quadrangle....... Healy.
Mining district.. Kantishna.
Coalfield....... Nenana.
Elevation....... 701 m.
Topography....... Steep slope.
Domain........... National Park.

General location.. 30 km southwest of Healy.

Meridian........... Fairbanks.
Tract............... Sec. 29, T 13 S, R 10 W.
Latitude........... 63°45'49" N.
Longitude........... 149°32'35" W.

GEOLOGY

Formation name..... Healy Creek.
Shape of coal seam. Tabular.
Coal controls....... Bedding
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............. Do.
Thickness....... 1.2.
Depth.......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Gravel lies over ore.
Sandstone lies under ore.
Coking ability....... Not reported.
Heating value....... 7,150-7,631 Btu/lb (416).
Composition, %:
Ash.................. 5.8-9.7.
Sulfur.............. 0.2-0.3.
Moisture........... 27.8-28.7.
Volatile matter... 36.0-39.8.
Fixed carbon...... 25.6-26.6.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination.......... Do.

DEVELOPMENT

Distance to water supply.. 0.1 km.
Road requirement........ 5.5 km.
Distance to power supply.. 30 km.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 3, 35, 43, 89, 93, 185, 211, 265, 268-269, 273, 289, 320, 354, 416, 427.

USGS quadrangle maps... Healy, D-6.

USBM sequence number... 0020670072.
SUSHANA

Map No: 101
Alternate names: None

Commodity: Bituminous & subbituminous

LOCATION-OWNERSHIP

General location: 37 km southwest of Healy.

Meridian: Fairbanks.
Tract: Sec. 28, T 13 S, R 11 W.
Latitude: 63°45'13" N.
Longitude: 149°41'40" W.

GEOLOGY

Formation name: Healy Creek.
Formation age: Tertiary.
Rock relationships: Gravel encloses ore.
Sand encloses ore.
Coking ability: Not reported.
Heating value: Do.
Composition, %: (1).
Ash: 8.2.
Sulfur: 0.3.
Moisture: Not reported.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.

Year of discovery: Unknown.
Discovery method: Do.

Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.5 km.
Road requirement: 9.5 km.
Distance to power supply: 37 km.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 3, 43, 93, 185, 211, 265, 268, 270, 273, 320, 416-417.

USGS quadrangle maps... Healy, D-6.

USBM sequence number... 0020670073.
SANCTUARY RIVER

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: 28 km southwest of Healy.

Meridian: Fairbanks.

Tract: Sec. 16, T 13 S, R 10 W.

Latitude: 63°47'16" N.

Longitude: 149°30'15" W.

GEOLOGY

Formation name: Healy Creek.

Formation age: Tertiary.

Shape of coal seam: Tabular.

Rock relationships: Gravel lies over ore.

Shale lies under ore.

Coking ability: No.

Heating value: 6,560-6,810 Btu/lb (416).

Composition, %:
- Ash: 13.2.
- Sulfur: 0.3.
- Moisture: 28.6-30.9.
- Volatile matter: 32.4-35.5.
- Fixed carbon: 22.7-23.5.

DEVELOPMENT

Distance to water supply: 0.1 km.

Road requirement: 7 km.

Distance to power supply: 28 km.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 3, 43, 89, 93, 185, 211, 265, 268, 270, 273, 289, 320, 416-417.

USGS quadrangle maps: Healy, D-6.

USBM sequence number: 0020670166.

157
SAVAGE RIVER

Map No: 102
Alternate names: None

Commodity: Bituminous & Subbituminous

LOCATION-OWNERSHIP

General location.. 20 km southwest of Healy.
Meridian........... Fairbanks.
Tract............... Sec. 21, T 13 S, R 09 W.
Latitude........... 63°46'07" N.
Longitude.......... 149°18'58" W.

Location district.. Bonnifield.
Coalfield ........ Nenana.
Elevation ........ 914 m.
Topography ....... Steep slope.
Domain .......... National Park.
Owner........... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 20° E, 10° W.
coa seam.
Coal seam average
dimensions, m.

Formation age...... Tertiary.
Rock relationships.. Sandstone encloses ore.
Coking ability...... No.
Heating value...... Not reported.
Composition, %:
Ash.............. Do.
Sulfur............ Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 1.2 km.
Road requirement........ 4.3 km.
Distance to power supply.. 20 km.

Process rate........... Not reported.
Product type........... Do.
Distance shipped........ Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 3, 35, 43, 89, 93, 95, 97, 185,
211, 265, 268, 270, 273, 289, 320,
416-417, 441.

USGS quadrangle maps... Healy, D-5.
USBM sequence number... 0020670071.

158
HINES CREEK

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location.. 18 km southwest of Healy.

Quadrangle ...... Healy.
Mining district.. Bonnifield.
Coalfield....... Nenana.
Elevation....... 914 m.
Topography...... Gentle slope.
Domain.......... National Park.

Owner.......... Unknown.
Operator ......... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported. coal seam.q
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness........ Do.
Depth ........... Do.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... No.
Heating value...... Not reported.
Composition, %:
Ash.............. Do.
Sulfur........... Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. 1 km.
Road requirement......... 2 km.
Distance to power supply.. 18 km.

Process rate........... Not reported.
Product type........... Do.
Distance shipped........ Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 95, 185, 265, 270, 273, 320, 421.

USGS quadrangle maps... Healy, C-5.
USBM sequence number... 0020670069.
YANERT COAL MINE

Map No: 104
Alternate names: Yanert Mine, Mile 341, Mt. McKinley Bituminous Coal Mine
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Healy.
Mining district........ Bonnifield.
Coalfield............. Nenana.
Elevation............. 671 m.
Topography............ Gently rolling.
Domain................. National Park.

Owner........... Mt. McKinley Bituminous Coal Corp.
Operator......... Do.

General location.. 24 km southeast of Healy.
Meridian......... Fairbanks.
Tract............ Sec. 02, T 15 S, R 07 W.
Latitude........ 63°38'43" N.
Longitude....... 148°50'24" W.

GEOLOGY

Formation name..... Cantwell.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of S 70° W, 40-60° N.
Coal seam average dimensions, m.
Length......... Not reported.
Width............ Do.
Thickness........ Do.
Depth............ Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Conglomerate lies under ore.
Coking ability...... Not reported.
Heating value....... 10,590-14,220 Btu/lb (146).
Composition, %:
Ash.............. 11.9-19.9.
Sulfur............ 0.4-0.8.
Moisture.......... 4.2-7.7.
Volatile matter... 11.4-26.4.
Fixed carbon....... 56.8-73.6.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1923.
Last production.... 1924.
Past production.... 106 mt.
Annual production... Do.

Distance to water supply.. 0.5 km.
Road requirement......... 1.6 km.
Distance to power supply.. 24 km.

Process rate............ Unknown.
Product type........... Coal.
Distance shipped....... 115 km.
Destination............. Nenana.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Healy, C-4.

USBM sequence number... 0020670058.
MILE 353 PROSPECT

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Healy.
Mining district.. Bonnfield.
Coalfield....... Nenana.
Elevation....... 640 m.
Topography...... Steep slope.
Domain.......... National Park.

General location.. 6 km south of Healy.
Meridian....... Fairbanks.
Tract............ Sec. 08, T 13 S, R 07 W.
Latitude......... 63°48'00" N.
Longitude....... 148°57'52" W.

Owner........... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Healy Creek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... Do.
Depth............. Do.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... No.
Heating values..... Not reported.
Composition, %:
Ash............... Do.
Sulfur............ Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 185, 265, 270, 273, 320, 417, 441.

USGS quadrangle maps... Healy, D-4.
USBM sequence number... 0020670191.
DRY CREEK COAL

Map No: 106
Alternate names: Diamond Strip Mine, Otto Lake Mine, Ringstead Mine

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coalfield....... Nenana.
Elevation....... 625 m.
Topography...... Gently rolling.
Domain......... State.

Owner.......... Diamond Coal Company.
Operator........ Gus Parris, Otto Maki, James Norris.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls ...... Bedding.
Strike and dip of S 66° W, 35° N. coal seam.
Coal seam average dimensions, m.
  Length........... Not reported.
  Width............ Do.
  Thickness....... 12.8.
  Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Gravel lies over ore.
  Clay lies under ore.
Coking ability...... Not reported.
Heating value...... 8,480-12,135 Btu/lb (219).
Composition, %:
  Ash................ 6.5-40.0.
  Sulfur.......... 0.1.
  Moisture........ 8.3-34.3.
  Volatile matter... 32.7-65.5.
  Fixed carbon..... 17.6-41.2.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production... 1943.
Last production..... 1946.
Past production... 45,578 mt.
Annual production... 1943-7,095 mt,
  1946-38,482 mt.

Distance to water supply.. 1 km.
Road requirement........ Existing.
Distance to power supply.. 5.5 km.

Process rate............ 74 mt/d.
Product type............ Coal.
Distance shipped....... 180 km.
Destination............... Fairbanks.

PUBLISHED RESERVES-RESOURCES

Reserves: Measured; 29,800 short tons; (359)
  Inferred; 19,700 short tons.

163
REFERENCES

1, 3, 33, 87, 93, 95, 185, 193, 211, 219, 234, 265, 268, 270, 320, 359, 416-417, 421, 442, 444.

USGS quadrangle maps... Healy, D-5.

USBM sequence number... 0020670067.
PETEON MINE

Map No: 107
Alternate names: New Mine, Healy River Coal Corp
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coalfield....... Nenana.
Elevation........ 457 m.
Topography...... Flat lying.
Domain............ State.

General location.. 1 km south of Healy.
Meridian......... Fairbanks.
Tract ............ Sec. 29, T 12 S, R 07 W.
Latitude........ 63°51'00" N.
Longitude........ 148°57'55" W.

Owner............ Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length ........... Do.
Width ............ Do.
Thickness ....... Do.
Depth ............ Do.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability...... No.
Heating value....... Not reported.
Composition, %:
Ash ............... Do.
Sulfur ............ Do.
Moisture .......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. 1920.
Last production...... 1922.
Past production..... 35,273 mt.
Annual production... Not reported.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. 1 km.

Process rate......... Not reported.
Product type........ Coal.
Distance shipped..... Not reported.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 185, 234, 265, 268, 270, 273,
320, 417, 441.

USGS quadrangle maps... Healy, D-4.

165
MOODY CREEK

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle........ Healy.
Mining district.. Bonnifield.
Coalfield.......... Nenana.
Elevation......... 610 m.
Topography....... Rugged.
Domain........... State.

Owner........... Unknown.
Operator......... Do.

General location.. 9 km southeast of Healy.
Meridian......... Fairbanks.
Tract............... Sec. 01, T 13 S, R 07 W.
Latitude........... 63°49'06" N.
Longitude........... 148°48'13" W.

GEOLOGY

Formation name..... Cantwell.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... Do.
Depth............. Do.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Conglomerate lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur............. Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate......... Not reported.
Product type......... Do.
Distance shipped.... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 95, 185, 265, 270, 273, 320, 441, 444.

USGS quadrangle maps... Healy, D-4.
USBM sequence number... 0020670052.

166
LIGNITE CREEK COAL

Map No: 109
Alternate names: Calderhead Mine, Arctic Coal Co. Mine, Hosanna Creek, Hoseanna Creek
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Healy.
Mining district.. Bonnifield.
Coalfield....... Nenana.
Elevation....... 457 m.
Topography....... Gently rolling.
Domain.......... State.

General location.. 9 km northeast of Healy.
Meridian......... Fairbanks.
Tract........... Sec. 35, T 11 S, R 07 W.
Latitude......... 63°55'01" N.
Longitude....... 148°51'58" W.

Owner........... Carroll, Corey, Lander, Sczudlo, and Somers.
Operator........ Arctic Coal Company.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Flat-lying, 6° N.
coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness....... 12.2.
Depth.......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Clay lies under ore.
Coking ability...... Not reported.
Heating value....... 7,570-11,820 Btu/lb (146).
Composition, %:
Ash.............. 9.5-12.9.
Sulfur............ 0.2-0.3.
Moisture.......... 26.5.
Volatile matter... 35.8-55.9.
Fixed carbon...... 28.2-44.1.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. Late 1800's.
Discovery method... Unknown.

Initial production.. 1919.
Last production..... 1921.
Past production..... Not reported.
Annual production... Do.

Distance to water supply.. 1.0 km.
Road requirement........ Existing.
Distance to power supply.. 7 km.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped........ Unknown.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670064.
USIBELLI COAL MINE

Map No: 109
Alternate names: Usibelli Strip, Gold Run Pass, Poker Flats, Two Bull Ridge
Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location.. 5.5 km northeast of Healy.

Quadrangle........ Healy.
Mining district. . Bonnifield.
Coalfield........... Nenana.
Elevation............ 492 m.
Topography........ Gentle slope.
Domain.............. State.

Owner............. Usibelli Coal Mine, Inc.
Operator.......... Do.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of . East-west, 10-30o S.
c. coal seam.
Coal seam average Seams 3,4,& 6.
dimensions, m.
Length.............. Not reported.
Width.............. Do.
Thickness........ 6.
Depth............ Outcrop - 42.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Claystone lies under ore.
Coking ability...... No.
Heating value...... 7,022-12,124 Btu/lb (268).
Composition, %:
Ash.................. 7.66-22.32.
Sulfur............. 0.12-0.28.
Moisture.......... 23.61-25.68.
Volatile matter... 32.80-55.28.
Fixed carbon...... 26.54-46.78.

DEVELOPMENT

Current status..... Producer.
Type of operation.. Surface.

Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. 1943.
Last production.... Present.
Past production.... 17.8 Mmt.
Annual production... 1.8 Mmt.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Do.
Mill location........... On-site.
Mill status............... Active.
Mill method............. Crusher.

Process rate........... 1.6 Mmt/d
Product type........... Coal.
Distance shipped...... 583 km.
Destination............ Fairbanks and Seward.

PUBLISHED RESERVES-RESOURCES

Reserves: All leases; 250 million short tons (357).
Poker Flats; 28 million short tons (153).
Two Bull Ridge; 38 million short tons (153).
REFERENCES


USGS quadrangle maps... Healy, D-4.
USBM sequence number... 0020670090.
HEALY CREEK ADITS

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location.. 19 km east of Healy.

Meridian........ Fairbanks.
Tract............ Sec. 07, T 12 S, R 05 W.
Latitude.......... 63°52'59" N.
Longitude........ 148°35'44" W.

GEOLOGY

Formation name..... Healy Creek.
Formation age...... Tertiary.
Shape of coal seam. Tabular.
Rock relationships.. Gravel lies over ore.
Coal controls...... Bedding.
Sandstone lies under ore.
Strike and dip of East-west.
coal seam.
Coking ability...... No.
Coal seam average
dimensions, m.
Length............ Not reported.
Ash................. Do.
Sulfur............. Do.
Thickness........ 3.
Moisture.......... Do.
Depth.............. Outcrop.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Distance to water supply.. 0.5 km.
Type of operation.. Prospect.
Road requirement........ 4 km.
Year of discovery.. 1898.
Distance to power supply.. 19 km.
Discovery method... Unknown.
Process rate.......... Not reported.
Initial production.. Not reported.
Product type.......... Do.
Last production..... Do.
Distance shipped...... Do.
Past production..... Do.
Destination.......... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670183.
UPPER HEALY CREEK MINE

Map No: 110
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle..... Healy.
Mining district.. Bonnifield.
Coalfield....... Nenana.
Elevation....... 693 m.
Topography...... Flat-lying.
Domain.......... State.

Owner.......... Usibelli Coal Mine, Inc.
Operator......... Unknown.

General location.. 17 km east of Healy.

Meridian......... Fairbanks.
Tract............ Sec. 13, T 12 S, R 06 W.
Latitude......... 63°52′46″ N.
Longitude........ 148°37′50″ W.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of coal seam. East-west, 35° NW.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 2.4.
Depth............... Outcrop.

Formation age...... Tertiary.
Rock relationships. Gravel lies over ore.
Sandstone lies under ore.
Coking ability...... No.
Heating value....... 8,290-12,160 Btu/lb (146).
Composition, %:
Ash................ 4.4-6.1.
Sulfur............. 0.2.
Moisture.......... 27.4.
Volatile matter... 34.7-50.9.
Fixed carbon...... 33.5-49.1.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 3 km.
Distance to power supply.. 17 km.

Process rate.......... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 3, 35, 43-44, 145-146, 174, 185,
265, 270, 273, 320, 354, 417, 442,
445-448.

USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670184.
ROTH-TAYLOR MINE

Map No: 110
Alternate names: Roth & Manley, Alaska Cannel Coal Corp., Coal Leasing Block No. 28
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coal Creek...... Nenana.
Elevation....... 640 m.
Topography...... Steep slope.
Domain.......... State.

Owner.......... Usibelli Coal Mine, Inc.
Operator......... Unknown.

General location.. 15 km east of Healy.
Meridian....... Fairbanks.
Tract............ Sec. 14, T 12 S, R 06 W.
Latitude.......... 63°52′26″ N.
Longitude....... 148°40′26″ W.

GEOLoGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of East-west, 30-45° N.
c coal seam.
Coal seam average dimensions, m.
Length............ Not reported.
Width............ Do.
Thickness....... 15.9.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Gravel lies over ore.
Sandstone lies under ore.
Coking ability...... No.
Heating value...... 8,390-13,130 Btu/lb (146).
Composition, %:
Ash................. 3.3-12.1.
Sulfur.............. 0.1-0.3.
Moisture........... 16.2-24.3.
Volatile matter... 37.9-52.5.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. 1923.
Last production.... 1924.
Past production.... 827 mt.
Annual production... 1923 - 176 mt,
1924 - 650 mt.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. 15 km.

Process rate......... Unknown.
Product type......... Coal.
Distance shipped...... 187 km.
Destination.......... Fairbanks.

PUBLISHED RESERVES-RESOURCES

Resources: Measured; 50,800 short tons (234).
Indicated; 13,100 short tons.
Inferred; 342,900 short tons.

174
REFERENCES


USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670185.
CRIPPLE CREEK MINE

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location.. 13 km east of Healy on Cripple Creek.

Meridian........ Fairbanks.
Tract............ Sec. 15, T 12 S, R 06 W.
Latitude......... 63°52'13" N.
Longitude....... 148°42'40" W.

Owner........... Grace, Ben, & Mary L. Shallit, & Brigham Young University.
Operator........ Unknown.

GEOLOGY

Formation name.... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  N 70° E, 35° N.
coal seam.
Coal seam average
dimensions, m.
   Length.......... 71.1.
   Width.......... Not reported.
   Thickness....... 5.6.
   Depth.......... Outcrop.

Formation age.... Tertiary.
Rock relationships.. Gravel lies over ore.
   Sandstone lies under ore.
Coking ability...... No.
Heating value...... 6,540-12,200 Btu/lb (146).
Composition, %:
   Ash.............. 4.1-24.3.
   Sulfur.......... 0.1-0.4.
   Moisture........ 23.9-25.9.
   Volatile matter.. 31.2-58.7.
   Fixed carbon..... 24.9-48.4.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement.......... Existing.
Distance to power supply.. 13 km.
Process rate.............. Unknown.
Product type............. Coal.
Distance shipped....... 583 km.
Destination.............. Fairbanks.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 3, 24, 43, 145-146, 174, 185, 234, 265, 270, 273, 320, 417, 441.

USGS quadrangle maps... Healy, D-4.
USBM sequence number... 0020670186.
CRIPPLE CREEK WEST

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 12 km east of Healy on Cripple Creek.

Meridian: Fairbanks.

Tract: Sec. 21, T 12 S, R 06 W.

Latitude: 63°51'57" N.

Longitude: 148°43'50" W.

Owner: Grace, Ben, & Mary L. Shallit, & Brigham Young University.

Operator: Unknown.

GEOLOGY

Formation name: Suntrana.

Formation age: Tertiary.

Shape of coal seam: Tabular.

Rock relationships: Gravel lies over ore.

Sandstone lies under ore.

Coking ability: No.

Heating Value: 6,540-12,180 Btu/lb (146).

Composition, %:

<table>
<thead>
<tr>
<th>Ash</th>
<th>8.5-24.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfur</td>
<td>0.2-0.4</td>
</tr>
<tr>
<td>Moisture</td>
<td>23.9-25.9</td>
</tr>
<tr>
<td>Volatile matter</td>
<td>31.2-58.7</td>
</tr>
<tr>
<td>Fixed carbon</td>
<td>24.9-44.4</td>
</tr>
</tbody>
</table>

DEVELOPMENT

Current status: Raw prospect.

Type of operation: Prospect.

Year of discovery: 1898.

Discovery method: Unknown.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 1.3 km.

Road requirement: 0.5 km.

Distance to power supply: 12 km.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670187.
FRENCH CREEK

Map No: 110
Alternate names: French Gulch

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coalfield...... Nenana.
Elevation....... 503 m.
Topography...... Steep slope.
Domain.......... State.

General location.. 10 km east of Healy.
Meridian........ Fairbanks.
Tract............ Sec. 20, T 12 S, R 06 W.
Latitude......... 63°51'53" N.
Longitude........ 148°45'39" W.

Owner............ Usibelli Coal Mine, Inc.
Operator........ Do.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of ... Not reported.
coal seam.
Coal seam average
dimensions, m.
Length............ Do.
Width............. Do.
Thickness......... 6.2.
Depth............. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Gravel lies over ore.
Sandstone lies under ore.
Coking ability...... No.
Heating value...... Not reported.
Composition, %:
Ash................ Do.
Sulfur............ Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. 10 km.

Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 33, 43, 185, 265, 270, 273, 320, 417, 441.
USGS quadrangle maps... Healy, D-4.
USBM sequence number... 0020670188.

178
SUNTRANA MINE

Map No: 110
Alternate names: New Suntrana (Hill) Mine, Old Suntrana Mine, Healy River Coal Corp.
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coalfield........ Nenana.
Elevation........ 510 m.
Topography...... Gentle slope.
Domain........... State.

General location.. 6 km east of Healy.

Meridian......... Fairbanks.
Tract............ Sec. 23, T 12 S, R 07 W.
Latitude.......... 63°51'32" N.
Longitude........ 148°52'37" W.

Owner............ Daniel E. Renshaw.
Operator.......... Unknown.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of: N 70° E, 27-33° N.
Coal seam average
dimensions, m.
Length........... 19,000.
Width............ Not reported
Thickness......... 8.4.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Claystone lies under ore.
Coking ability...... No.
Heating value...... 7,290-13,180 Btu/lb (146).
Composition, %:
Ash................ 3.5-16.5.
Sulfur............ 0.1-0.6.
Moisture.......... 18.2-29.3.
Volatile matter... 34.7-59.1.
Fixed carbon...... 27.6-49.2.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. 1898.
Discovery method... Unknown.

Initial production.. 1922.
Last production.. 1962.
Past production.... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. 6 km.

Process rate........... 300 mt/d.
Product type.......... Coal.
Distance shipped....... 187 km.
Destination............ Fairbanks, Cordova, and Anchorage.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

1, 3, 20, 26, 33, 35, 44, 91, 136,
145-146, 174, 185, 193-194, 211, 219,
243, 257, 265, 267-268, 270, 273, 290,
303, 320, 333, 336, 354, 361, 367-368,
377-378, 381, 383, 387, 402, 416-417,
421, 441, 444-445, 449-450.

USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670189.
GOLD RUN PASS NO. 2

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location.. 14 km northeast of Healy.

Meridian....... Fairbanks.
Tract.. Sec. 03, T 12 S, R 06 W.
Latitude.. 63°54'32" N.
Longitude.. 148°42'31" W.

GEOLOGY

Formation name.... Suntrana.
Formation age.... Tertiary.

Rock relationships.. Sandstone lies over ore.
Claystone lies under ore.

Coking ability...... No.
Heating value...... Not reported.
Composition, %:
Ash.................. Do.
Sulfur............. Do.
Moisture......... Do.
Volatile matter.. Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Raw prospect.
Distance to water supply.. 1 km.
Type of operation.. Prospect.
Road requirement......... 9 km.

Year of discovery.. 1898.
Distance to power supply.. Do.
Discovery method... Unknown.

Initial production.. Not reported.
Process rate............. Not reported.
Last production..... Do.
Product type........... Do.
Past production..... Do.
Distance shipped...... Do.
Annual production... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 185, 265, 270, 273, 320, 417, 441.
USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670181.
Map No: 111
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 15 km northeast of Healy.
Meridian: Fairbanks.
Tract: Sec. 02, T 12 S, R 06 W.
Latitude: 63°54'08" N.
Longitude: 148°42'00" W.

GEOLoGY

Formation name: Suntrana.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m:
- Length: Do.
- Width: Do.
- Thickness: Do.
- Depth: Do.

Formation age: Tertiary.
Rock relationships: Sandstone lies over ore.
                      Claystone lies under ore.
Coking ability: No.
Heating value: Not reported.
Composition, %:
- Ash: Do.
- Sulfur: Do.
- Moisture: Do.
- Volatile matter: Do.
- Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: 1898.
Discovery method: Unknown.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 185, 265, 268, 270, 273, 320, 356, 417.
USGS quadrangle maps... Healy, D-4.
USBM sequence number... 0020670182.
MOOSE SEAM

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location. 14 km northeast of Healy.

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coalfield....... Nenana.
Elevation....... 594 m.
Topography...... Gentle slope.
Domain.......... State.

Owner........... Usibelli Coal Mine, Inc.
Operator......... Unknown.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do. Width........... Do. Thickness....... 6.6. Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships. Sandstone lies over ore.
Claystone lies under ore.
Coking ability...... No.
Heating value....... 8,953-12,627 Btu/lb (268).
Composition, %:
Ash................. 7.68-9.77.
Sulfur............. 0.15-0.21.
Moisture........... 16.81-21.42.
Volatile matter... 36.02-50.81.
Fixed carbon...... 34.88-49.19.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply... 0.1 km.
Road requirement........ 6 km.
Distance to power supply.. 14 km.

Process rate........... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 185, 234, 265, 268, 270, 273, 320, 333, 337, 441.

USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670102.

183
CARIBOU SEAM

Map No: 112
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle........ Healy.
Mining district.... Bonnifield.
Coalfield.......... Nenana.
Elevation.......... 700 m.
Topography........ Gentle slope.
Domain............. State.

General location... 14 km northeast of Healy.

Owner............. Usibelli Coal Mine, Inc.
Operator........... Unknown.

Mining district... Bonnifield.
Coalfield.......... Nenana.
Elevation.......... 700 m.
Topography........ Gentle slope.
Domain............. State.

LOCATION-OWNERSHIP

General location... 14 km northeast of Healy.

Owner............. Usibelli Coal Mine, Inc.
Operator........... Unknown.

Mining district... Bonnifield.
Coalfield.......... Nenana.
Elevation.......... 700 m.
Topography........ Gentle slope.
Domain............. State.

Location......... Sec. 28, T 11 S, R 06 W.
Latitude........... 63°56'07" N.
Longitude........... 148°43'50" W.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of........ Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... 5.06.
Depth............. Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Claystone lies under ore.
Coking ability...... No.
Heating value....... 8,567-12,464 Btu (269).
Composition, %:
Sulfur.............. 0.13-0.20.
Moisture........... 21.93.
Volatile matter... 35.88-52.20.
Fixed carbon....... 32.85-47.80.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1898.
Discovery method... Unknown.

Distance to water supply.. 1 km.
Road requirement......... 8 km.
Distance to power supply.. 14 km.

Initial production... Not reported.
Last production..... Do.
Past production...... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped........ Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 185, 265, 268, 270, 273, 320, 333, 337, 441.

USGS quadrangle maps... Healy, D-4.

USBM sequence number... 0020670150.

184
NENANA RIVER COAL

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location... 5 km northwest of Healy.

Quadrangle...... Healy.
Mining district.. Bonnifield.
Coalfield....... Nenana.
Elevation....... 366 m.
Topography...... Gently rolling.
Domain.......... State.

Owner.......... Unknown.
Operator....... Do.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of... Not reported.
coal seam.
Coal seam average
dimensions, m.
 Length......... 610.
 Width......... Not reported.
 Thickness...... 1.5.
 Depth.......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Gravel lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 8,080-11,240 Btu/lb (146).
Composition, %:
Ash................ 3.6-5.1.
Sulfur............ 0.2.
Moisture.......... 28.2.
Volatile matter... 34.5-48.1.
Fixed carbon...... 33.7-46.8.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. 1919.
Last production.... Do.
Past production.... 8,047 mt.
Annual production... Do.

Process rate......... Unknown.
Product type......... Coal.
Distance shipped.... 87 km.
Destination......... Nenana.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 55, 74, 78, 95, 145-146, 174, 185, 245,
USGS quadrangle maps... Healy D-5.
USBM sequence number... 0020670063.
MILE 363 MINE
Commodity: High volatile A bituminous

LOCATION-OWNERSHIP
General location: 6 km northwest of Healy.
Meridian: Fairbanks.
Tract: Sec. 01, T 12 S, R 08 W.
Latitude: 63°54'32" N.
Longitude: 149°01'18" W.

Quadrangle: Healy.
Mining district: Bonnifield.
Coalfield: Nenana.
Elevation: 412 m.
Topography: Flat-lying.
Domain: State.
Owner: Unknown.
Operator: Do.

GEOLOGY
Formation name: Healy Creek.
Formation age: Tertiary.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Coking ability: No.
Heating value: 13,250-13,600 Btu/lb (146).
Rock relationships: Not reported.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal body average composition, %:
Sulfur: 0.3.
Moisture: 2.6.
Volatile matter: 35.7-36.7.
Fixed carbon: 52.4-53.7.

DEVELOPMENT
Current status: Raw prospect.
Type of operation: Prospect.
Distance to water supply: 0.5 km.
Road requirement: Do.
Distance to power supply: 6 km.
Year of discovery: Unknown.
Discovery method: Do.

Initial production: Not reported.
Process rate: Not reported.
Last production: Do.
Product type: Do.
Past production: Do.
Distance shipped: Do.
Annual production: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES
No published reserve-resource information.

REFERENCES
1, 3, 74, 91, 145-146, 174, 185, 211, 265, 270, 273, 320, 355, 416-417, 442.
USGS quadrangle maps... Healy, D-5.
USBM sequence number... 0020670180.
CALIFORNIA CREEK SOUTH

Commodity: Lignite

LOCATION-OWNERSHIP

General location.. 99 km southwest of Fairbanks.

Meridian....... Fairbanks.
Tract........... Sec. 27, T 10 S, R 06 W.
Latitude.......... 64°01’12” N.
Longitude........ 148°41’50” W.

GEOLOGY

Formation name..... Healy Creek.
Formation age....... Tertiary.
Shape of coal seam. Tabular.
Rock relationships.. Gravel encloses ore.
Coal controls ...... Bedding.
Coking ability ...... Not reported.
Heating value....... 4,710-11,760 Btu/lb (146).
Composition, %:
Ash............. 15.8-43.5.
Sulfur............ 0.2-0.8.
Moisture........ 25.7-38.2.
Volatile matter... 23.8-60.5.
Fixed carbon...... 16.4-48.2.

DEVELOPMENT

Current status..... Exploration prospect.
Distance to water supply.. 0.1 km.
Type of operation.. Prospect.
Road requirement........ 3 km.
Year of discovery.. Unknown.
Distance to power supply.. 21 km.
Discovery method... Do.

Initial production.. Not reported.
Process rate........ Not reported.
Last production..... Do.
Product type........... Do.
Past production..... Do.
Distance shipped....... Do.
Annual production... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

California Creek area: Inferred resources; 200 million short tons (88).

REFERENCES

187
USBM sequence number... 0020580140.
LYNN MINE

Commodity: Subbituminous & lignite

LOCATION-OWNERSHIP

General location.. 103 km southeast of Fairbanks.

Meridian......... Fairbanks.
Tract............ Sec. 12, T 08 S, R 09 W.
Latitude......... 64°14'02" N.
Longitude........ 149°15'30" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m. Length............ Do.
Width............. Do.
Thickness........ 1.3.
Depth............. Outcrop.

Formation age....... Tertiary.
Rock relationships.. Not reported.
Coking ability...... Do.
Heating value....... Do.
Composition, %:
Ash............... Do.
Sulfur.............. Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.

Year of discovery.. Unknown.
Discovery method.. Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... 2,205 mt.
Annual production... Not reported.

Process rate............ Unknown.
Product type........... Coal.
Distance shipped...... Unknown.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

74, 95, 185, 265, 273, 317, 320, 417, 439.
USGS quadrangle maps... Fairbanks, A-5.
USBM sequence number... 0020580138.
CALIFORNIA CREEK

Map No: 116
Alternate names: None
Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle...... Fairbanks.
Mining district.. Bonnfield.
Coalfield....... Nenana.
Elevation....... 457 m.
Topography....... Gently rolling.
Domain......... State.

General location.. 88 km southwest of Fairbanks.
Meridian....... Fairbanks.
Tract.......... Sec. 15, T 09 S, R 06 W.
Latitude........ 64°07'56" N.
Longitude....... 148°44'08" W.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Healy Creek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Flatt-lying.
c coal seam.
Coal seam average
dimensions, m.
Length........ Not reported.
Width.......... Do.
Thickness....... 3.7.
Depth.......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Gravel encloses ore.
Coking ability..... Not reported.
Heating value....... 4,710-11,760 Btu/lb (146).
Composition, %:
Ash............... 15.8-43.5.
Sulfur........... 0.2-0.8.
Moisture......... 25.7-38.2.
Volatile matter... 23.8-60.5.
Fixed carbon...... 16.4-48.2.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

California Creek area: Inferred resources; 200 million short tons (88).

REFERENCES

87, 89, 95, 145-146, 185, 265, 273,
317, 320, 417, 421, 438.

USGS quadrangle maps... Fairbanks, A-4.
USBM sequence number... 0020580139.

189
TATLANIKA

Map No: 117
Alternate names: Tatlanika Creek

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle...... Fairbanks.
Mining district.. Bonnifield.
Coalfield........ Nenana.
Elevation........ 488 m.
Topography....... Gently rolling.
Domain............ State.

General location.. 82 km southwest of Fairbanks.
Meridian........ Fairbanks.
Tract............... Sec. 24, T 09 S, R 04 W.
Latitude.......... 64°07'16" N.
Longitude....... 148°14'30" W.

Owner............. Unknown.
Operator.......... Do.

GEOLOGY

Formation name..... Suntrana.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.

Formation age...... Tertiary.
Rock relationships.. Gravel encloses ore.

Coking ability...... Not reported.
Heating value....... 7,290-11,720 Btu/lb (146).

Composition, %:
Sulfur............. 0.3-0.4.
Moisture.......... 19.7.
Volatile matter... 37.6-60.2.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Distance to water supply... 0.1 km.
Road requirement........ 54 km.
Distance to power supply.. 44 km.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped........ Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

95, 145-146, 185, 265, 273, 317, 320, 417, 421, 437.
USGS quadrangle maps... Fairbanks, A-3.
USBM sequence number... 0020580141.

190
MYSTIC CREEK

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: 54 km northeast of Healy.
Meridian: Fairbanks.
Tract: Sec. 14, T 11 S, R 02 W.
Latitude: 63°58'05" N.
Longitude: 147°53'13" W.

GEOLOGY

Formation name: Unnamed.
Formation age: Tertiary.
Rock relationships: Shale lies over ore.
Claystone lies under ore.
Coking ability: No.
Heating value: Not reported.
Composition, %:
Ash: Do.
Sulfur: Do.
Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Distance to water supply: 0.1 km.
Road requirement: 45 km.
Distance to power supply: 54 km.
Year of discovery: 1898.
Discovery method: Unknown.

Initial production: Not reported.
Process rate: Not reported.
Last production: Do.
Product type: Do.
Past production: Do.
Distance shipped: Do.
Annual production: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

Mystic Creek Field: resources; High assurance; 10 million short tons (269).
Moderate assurance; 25 million short tons.
Low assurance; 50 million short tons.
REFERENCES

3, 30, 72, 87-95, 185, 266, 268-269, 273, 320, 323, 361, 417, 440.

USGS quadrangle maps... Healy, D-2.

USBM sequence number... 0020670094.
COAL CREEK

Map No: 119
Alternate names: Clearwater Creek

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Mt. Hayes.
Mining district.. Valdez Creek.
Coalfield....... Unnamed.
Elevation....... 1280 m.
Topography..... Steep slope.
Domain......... BLM-administrated.

General location.. 75 km east of Paxson.
Meridian....... Fairbanks.
Tract............... Sec. 15, T 20 S, R 04 E.
Latitude........... 63°11'01" N.
Longitude........... 146°56'46" W.

Owner........... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
  Length........... Not reported.
  Width............. Do.
  Thickness....... 3.4.
  Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability..... Not reported.
Heating value....... 10,000-12,930 Btu/lb (346).
Composition, %:
  Ash.............. 8.5-9.9.
  Sulfur.......... 0.3.
  Moisture........ 14.1.
  Volatile matter.. 40.3-52.0.
  Fixed carbon..... 37.1-48.0.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production...... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 14 km.
Distance to power supply.. Onsite.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 346, 350, 361, 417.
USGS quadrangle maps... Mt. Hayes, A-6.
USBM sequence number... 0020680026.
LITTLE GOLD CREEK COAL

Map No: 120
Alternate names: Jarvis Creek Coal Mine, Delta River, Ruby Creek, Ober Creek, V.M. Smith, Sargent Creek, Little Gold Creek

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle........ Mt. Hayes.
Mining district... Delta River.
Coalfield......... Nenana.
Elevation......... 853 m.
Topography....... Gentle slope.
Domain........... BLM-administrated.

Owner............ Delta Coal Company.
Operator.......... Do.

General location.. 71 km north of Paxson.
Meridian......... Fairbanks.
Tract............ Sec. 31, T 14 S, R 11 E.
Latitude.......... 63°39'46" N.
Longitude........ 145°41'51" W.

GEOLOGY

Formation name..... Healy Creek.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of coal seam... NNW, 5-10°.
Coal seam average
dimensions, m.
Length........... 1,371.6.
Width............. 121.9.
Thickness......... 3.1.
Depth............ 11.9.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Claystone lies under ore.
Coking ability...... No.
Heating value....... 7,800-9,500 Btu/lb (265).
Composition, %:
Ash................ 5.0-15.0.
Sulfur............. 0.3-1.5.
Moisture........... 20.0-25.0.
Volatile matter... 35.0-45.0.
Fixed carbon...... 25.0-35.0.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. Unknown.
Discovery method... Do.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. Onsite.

Initial production.. 1950.
Last production..... 1972.
Past production..... 5,512 mt.
Annual production... Not reported.

Process rate........... Unknown.
Product type.......... Coal.
Distance shipped....... 201 km.
Destination............ Fairbanks.

PUBLISHED RESERVES-RESOURCES

Resources: High assurance; 30 million short tons (268).
Moderate assurance; 85 million short tons.
Low assurance; 175 million short tons.
REFERENCES


USGS quadrangle maps... Mt. Hayes, C-4.

USBM sequence number... 0020680017.
CHISNA COAL

Commodity: Lignite

LOCATION-OWNERSHIP

General location... 9 km northeast of Chisna.

Quadrangle...... Mt. Hayes.
Mining district.. Chistochina.
Coalfield......... Unnamed.
Elevation........ 280 m.
Topography....... Steep slope.
Domain........... State.

Owner............ Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.

Coal controls: Bedding. Shale lies under ore.

Heating value....... 0.32 (Fuel ratio) (262). 

Composition, %:
Ash.................. 4.28.
Sulfur.............. Not reported.
Moisture........... 15.91.
Volatile matter... 60.35.
Fixed carbon...... 19.46.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply... 0.1 km.
Road requirement......... 9 km.
Distance to power supply... Onsite.

Process rate........... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 262-264, 265, 273, 320.

USGS quadrangle maps... Mt. Hayes, A-2.

USBM sequence number... 0020680082.
CALIFORNIA

Map No: 121
Alternate names: Slate Creek

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle........ Mt. Hayes.
Mining district.. Chistochina.
Coalfield........ Unnamed.
Elevation........ 1219 m.
Topography....... Steep slope.
Domain............ State.
General location.. 10.5 km north of Chisna.

Meridian......... Fairbanks.
Tract............. Sec. 22, T 20 S, R 15 E.
Latitude.......... 63°10'05" N.
Longitude........ 144°50'25" W.

Owner............ Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Formation age...... Tertiary.
Rock relationships.. Not reported.

Coking ability...... Do.
Heating value...... Do.
Composition, %:
Ash................ Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Distance to water supply.. 0.1 km.
Road requirement........ 10.5 km.
Distance to power supply.. Onsite.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........ Not reported.
Product type........ Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 128, 185, 214, 265, 272, 320, 417.

USGS quadrangle maps... Mt. Hayes, A-2.
USBM sequence number... 0020680085.

197
FOURTH OF JULY CREEK

Map No: 122
Alternate names: None

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle...... McCarthy.
Mining district.. Nizina.
Coalfield...... Unnamed.
Elevation...... 1798 m.
Topography...... Steep Slope.
Domain......... National Park.

General location.. 15 km northwest of McCarthy.

Meridian......... Copper River.
Tract............. Sec. 24, T 04 S, R 12 E.
Latitude......... 61°30'48" N.
Longitude........ 143°08'50" W.

Owner......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Frederika.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Horizontal.
Coal seam average
dimensions, m.
Length............ Not reported.
Width............. Do.
Thickness......... Do.
Depth............. Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................. Do.
Sulfur.............. Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon....... Do.

DEVELOPMENT

Current status...... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Distance to water supply.. 1.5 km.
Road requirement......... 15 km.
Distance to power supply.. Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate............. Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination............ Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

54, 185, 226, 265, 273, 293, 296-297, 320, 417.

USGS quadrangle maps... McCarthy, C-6.
USBM sequence number... 0020870114.
LIGNITE CREEK

Map No: 123
Alternate names: Coal Creek, Rocker Creek

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle....... McCarthy.
Mining district.. Chisana.
Coalfield....... Unnamed.
Elevation....... 1219 m.
Topography....... Steep slope.
Domain........ National Park.
General location.. 59 km southeast of Chisna.
Meridian........ Copper River.
Tract........... Sec. 16, T 01 N, R 24 E.
Latitude......... 61°52'28" N.
Longitude........ 141°00'20" W.

Owner........... Unknown.
Operator....... Do.

Formation name..... Frederika.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... Do.
Depth............ Outcrop.
Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %: (294).
Ash................. 8.8.
Sulfur............. Not reported.
Volatile matter... 47.20.
Fixed carbon...... 29.15.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Distance to water supply.. 0.1 km.
Road requirement........ 17 km.
Distance to power supply.. Onsite.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production... Not reported.
Process rate......... Not reported.
Last production..... Do.
Product type......... Do.
Past production.... Do.
Distance shipped...... Do.
Annual production... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

88, 96, 185, 226, 258, 265, 273,
289, 294-295, 320, 417.
USGS quadrangle maps... McCarthy, D-1.
USBM sequence number... 0020870121.

199
CASEMENT GLACIER COAL

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location.. 58 km north of Gustavus.

Meridian........ Copper River.

Tract............ Sec. 07, T 34 S, R 57 E.

Latitude......... 58°56'05" N.

Longitude........ 135°58'57" W.

GEOLOGY

Formation name..... Unnamed.

Formation age....... Tertiary.

Rock relationships.. Not reported.

Coking ability...... Do.

Heating value....... Do.

Composition, %:

Ash................. Do.

Sulfur.............. Do.

Moisture........... Do.

Volatile matter... Do.

Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.

Type of operation.. Prospect.

Distance to water supply.. Less than 3 km.

Road requirement........... Less than 10 km.

Distance to power supply.. More than 100 km.

Year of discovery.. 1959.

Discovery method... Unknown.

Process rate......... Not reported.

Product type......... Do.

Distance shipped....... Do.

Destination......... Do.

Past production..... Do.

Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 227, 265, 273, 320.

USGS quadrangle maps... Juneau, D-6.

USBM sequence number... 0021120180.
SULLIVAN

Map No: 125
Alternate names: Point Sullivan Coal, Sullivan Island.
Commodity: Lignite & bituminous

LOCATION-OWNERSHIP

Quadrangle........ Sitka. General location... 1.5 km east of Angoon.
Mining district... Admiralty. Meridian........ Copper River.
Coalfield......... Unnamed. Tract............. Sec. 31, T 50 S, R 68 E.
Elevation.......... 3 m. Latitude......... 57°30'05" N.
Topography........ Flat-lying. Longitude....... 134°33'25" W.
Domain............ National Wilderness.
Owner............. Unknown. Owner............. Unknown.

GEOLOGY

Formation name..... Kootznahoo. Formation age....... Tertiary.
Shape of coal seam. Tabular. Rock relationships.. Shale lies over ore.
Coal controls...... Bedding. Sandstone lies under ore.
Strike and dip of coal seam. Not reported. Coking ability...... Not reported.
Coal seam average Composition, %:
  dimensions, m. Ash............ Do. Heating value...... Do.
    Length......... Do. Sulfur............ Do. Composition, %:
    Thickness..... 200. Volatile matter... Do. Sulfur............ Do.
    Depth......... Outcrop. Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect. Distance to water supply.. Less than 3 km.
Type of operation.. Prospect. Road requirement........ Less than 10 km.
Year of discovery.. Unknown. Distance to power supply.. Do.
Discovery method... Do. Process rate............. Not reported.
Initial production.. Not reported. Product type............. Do.
Last production..... Do. Distance shipped....... Do.
Past production..... Do. Destination........... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 417, 430, 432, 469.  USGS quadrangle maps... Sitka, C-2.
201  USBM sequence number... 0021140169.
Map No: 125
Alternate names: Lighter Creek

Commodity: Lignite & bituminous

LOCATION-OWNERSHIP

Quadrangle........ Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation......... 3 m.
Topography...... Flat-lying.
Domain............ National Wilderness.

General location.. 6.5 km east of Angoon.

Meridian........... Copper River.
Tract............. Sec. 27, T 50 S, R 68 E.
Latitude.......... 57°30'50" N.
Longitude........ 134°28'40" W.

Owner......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Kootznahoo.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length......... Do.
Width......... Do.
Thickness....... 0.4.
Depth.......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash............. Do.
Sulfur......... Do.
Moisture........ Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method.. Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. Less than 3 km.
Road requirement........ Less than 10 km.
Distance to power supply.. Do.

Process rate............. Not reported.
Product type............. Do.
Distance shipped....... Do.
Destination............. Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 348, 417, 430, 432, 469.
USGS quadrangle maps... Sitka, C-2.

USBM sequence number... 0021140170.

202
MEADE & MITCHELL SEAM

Commodity: Bituminous

LOCATION-OWNERSHIP

General location: 9 km east of Angoon.

Meridian: Copper River.

Tract: Sec. 23, T 50 S, R 68 E.

Latitude: 57°31'15" N.

Longitude: 134°26'45" W.

GEOLOGY

Formation name: Kootznahoo.

Formation age: Tertiary.

Shape of coal seam: Tabular.

Coal relationships: Shale lies over ore. Sandstone lies under ore.

Strike and dip of coal seam: Not reported.

Coking ability: Not reported.

Coal seam average composition, %:
Length: Do.
Width: Do.
Thickness: Do.
Depth: Outcrop.

Heating value: Do.

Composition, %:
Ash: Do.
Sulfur: Do.
Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Past producer.

Type of operation: Underground.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: 1896.

Last production: Do.

Past production: A few mt.

Annual production: Not reported.

Process rate: Unknown.

Product type: Coal.

Distance shipped: 9 km.

Destination: Angoon.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 348, 417, 430, 432, 469.

USGS quadrangle maps... Sitka, C-2.

USBM sequence number... 0021140171.

203
DIAMOND ISLAND

Map No: 125
Alternate names: None

Commodity: Lignite & bituminous

LOCATION-OWNERSHIP

Quadrangle....... Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation........ 3 m.
Topography...... Flat-lying.
Domain.......... National Wilderness.

Owner........... Unknown.
Operator......... Do.

General location.. 11 km northeast of Angoon.
Meridian.......... Copper River.
Tract............. Sec. 12, T 50 S, R 68 E.
Latitude.......... 57°32'57" N.
Longitude........ 134°25'25" W.

GEOLOGY

Formation name..... Kootznahoo.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of .... Not reported.
coal seam.

Coal seam average
dimensions, m.

Length......... Do.
Width......... Do.
Thickness....... 0.8.
Depth.......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:

Ash.............. Do.
Sulfur........... Do.
Moisture........ Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate......... Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 469.
USGS quadrangle maps... Sitka, C-2.
USBM sequence number... 0021140172.

204
HARKRADER COAL

Map No: 125
Alternate names: McClusky Mine, Admiralty Island Coal Co., SE Alaska Coal Co., Kanalku Bay Coal

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle....... Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation........ 3 m.
Topography...... Flat-lying.
Domain.......... National Wilderness.

General location.. 8 km east of Angoon.

Meridian........ Copper River.
Tract............ Sec. 35, T 50 S, R 68 E.
Latitude......... 57°29'55" N.
Longitude........ 134°26'45" W.

Owner.......... Robert Hurley & others.
Operator........ Do.

GEOLOGY

Formation name..... Kootznahoo.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Flat-lying.
coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness....... 0.76.
Depth............ Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies under ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 9,930-14,210 Btu/lb (146).
Composition, %:
Sulfur............ 0.9-1.7.
Moisture.......... 3.8-6.4.
Volatile matter... 34.3-48.6.
Fixed carbon...... 36.3-52.9.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1928.
Last production.... 1932.
Past production.... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. Onsite.

Process rate............ Unknown.
Product type............ Coal.
Distance shipped........ 128 km.
Destination............ Juneau.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

1, 15, 145-146, 174, 185, 265, 273, 320, 348, 373, 379-386, 388-390, 417, 430, 432, 469.

USGS quadrangle maps... Sitka, B-2.

USBM sequence number... 0021140215.
UNNAMED MINE 3

Map No: 125
Alternate names: None
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation....... 30 m.
Topography...... Flat-lying.
Domain.......... National Wilderness.
General location.. 9 km northeast of Angoon.

Operator........ Do.

GEOLOGY

Formation name..... Kootznaaho.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash............... Do.
Sulfur............ Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Distance to water supply.. Less than 3 km.
Road requirement........ Less than 10 km.
Distance to power supply.. More than 10 km.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Process rate........... Not reported.
Past production..... Do.
Product type........... Do.
Annual production... Do.
Distance shipped....... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320.
USGS quadrangle maps... Sitka, C-2.
USBM sequence number... 0021140226.
LIGHTER CREEK

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation........ 18 m.
Topography...... Gentle slope.
Domain.......... National Wilderness.

General location.. 7 km east of Angoon.
Meridian........ Copper River.
Tract............ Sec. 23, T 50 S, R 68 E.
Latitude.......... 57°31'22" N.
Longitude........ 134°27'00" W.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Kootznahoo.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length......... Do.
Width.......... Do.
Thickness....... Do.
Depth.......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur............ Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 417.
USGS quadrangle maps... Sitka, C-2.
USBM sequence number... 0021140227.
UNNAMED MINE 2

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle....... Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation........ 34 m.
Topography....... Flat-lying.
Domain.......... National Wilderness.

General location: 7 km east of Angoon.
Meridian........ Copper River.
Tract............ Sec. 23, T 50 S, R 68 E.
Latitude......... 57°31'01" N.
Longitude........ 134°27'13" W.

Owner.......... Unknown.
Operator....... Do.

GEOLOGY

Formation name..... Kootznahoo.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........ Do.
Width.......... Do.
Thickness...... Do.
Depth.......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur........... Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type......... Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 417.

USGS quadrangle maps... Sitka, C-2.
USBM sequence number... 0021140278.
DAVIS CREEK

Map No: 125
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

General location... 8 km east of Angoon.

Mining district... Admiralty.

Elevation...... 31 m.

Topography...... Gentle slope.

Owner............ Unknown.

Operator........... Do.

GEOLOGY

Formation name..... Kootznahoo.

Shape of coal seam. Tabular.

Coal controls...... Bedding.

Strike and dip of coal seam. Not reported.

Coal seam average

dimensions, m.

Length........... Do.

Width............. Do.

Thicknes........... Do.

Owner............ Unknown.

Operator........... Do.

GEOLOGY

Formation age....... Tertiary.

Rock relationships.. Shale lies over ore.

Sandstone lies under ore.

Coking ability...... Not reported.

Heating value...... Do.

Composition, %:

Ash................. Do.

Sulfur............. Do.

Moisture........... Do.

Volatile matter... Do.

Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.

Type of operation.. Prospect.

Year of discovery.. Unknown.

Distance to water supply.. Less than 3 km.

Distance to power supply.. Do.

Discovery method... Do.

Initial production.. Not reported.

Process rate........... Not reported.

Last production..... Do.

Product type........ Do.

Past production..... Do.

Distance shipped...... Do.

Annual production... Do.

Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320.

USGS quadrangle maps... Sitka, C-2.

USBM sequence number... 0021140229.

210
UNNAMED MINE I

Commodity: Bituminous

LOCATION-OWNERSHIP

General location: 5 km east of Angoon.

Meridian: Copper River.

Tract: Sec. 33, T 50 S, R 68 E.

Latitude: 57°30'04" N.

Longitude: 134°30'13" W.

GEOLOGY

Formation name: Kootznahoo.

Formation age: Tertiary.

Shape of coal seam: Tabular.

Rock relationships: Shale lies over ore.

Sandstone lies under ore.

Coking ability: Not reported.

Heating value: Do.

Composition, %:

Ash: Do.

Sulfur: Do.

Moisture: Do.

Volatile matter: Do.

Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.

Distance to water supply: Less than 3 km.

Type of operation: Prospect.

Road requirement: Less than 10 km.

Distance to power supply: Do.

Year of discovery: Unknown.

Distance shipped: Do.

Discovery method: Do.

Process rate: Not reported.

Initial production: Not reported.

Product type: Do.

Last production: Do.

Distance shipped: Do.

Past production: Do.

Destination: Do.

Annual production: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 417.

USGS quadrangle maps... Sitka, C-2.

USBM sequence number... 0021140230.

211
SEPPHAGEN

Map No: 126
Alternate names: None
Commodity: Lignite & Bituminous

LOCATION-OWNERSHIP

Quadrangle....... Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation....... 3 m.
Topography....... Gentle slope.
Domain........ National Wilderness.

General location.. 4 km east of Killisnoo.
Meridian......... Copper River.
Tract........... Sec. 04, T 51 S, R 68 E.
Latitude......... 57°28'40" N.
Longitude....... 134°30'15" W.
Owner............ Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Kootznahoo.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average

dimensions, m.

Length......... Do.
Width......... Do.
Thickness....... 0.3.
Depth......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................ Do.
Sulfur............ Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1895.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type.......... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 348, 417, 430, 432, 469.
USGS quadrangle maps... Sitka, B-2.
USBM sequence number... 0021140167.
FIRESTONE MINE

Map No: 126
Alternate names: None

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Sitka.
Mining district.. Admiralty.
Coalfield....... Unnamed.
Elevation........ 15 m.
Topography....... Gentle slope.
Domain.......... National Wilderness.

General location.. 3 km southeast of Angoon.
Meridian......... Copper River.
Tract............ Sec. 05, T 50 S, R 68 E.
Latitude......... 57°28'30" N.
Longitude....... 134°32'52" W.

GEOLOGY

Formation name..... Kootznahoo.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............... Do.
Thickness........... Do.
Depth................. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash.................. Do.
Sulfur............. Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1880.
Last production..... Do.
Past production..... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped....... 3 km.
Destination........... Angoon.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 417.

USGS quadrangle maps... Sitka, B-2.

USBM sequence number... 0021140225.

213
MURDER COVE

Map No: 127
Alternate names: Datewell Mine
Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle...... Sitka.
Mining district.. Admiralty.
Coalfield...... Unnamed.
Elevation....... 152 m.
Topography...... Gentle slope.
Domain.......... National Wilderness.

General location.. 2 km northwest of Tyee.
Meridian........ Copper River.
Tract.............. Sec. 35, T 55 S, R 68 E.
Latitude.......... 57°03'45" N.
Longitude....... 134°33'40" W.

Owner.......... Admiralty Coal & Fuel Company.
Operator....... Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length......... Do.
Width......... Do.
Thickness...... 1.5.
Depth......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 11,200-11,880 Btu/lb (146).
Composition, %:
Sulfur......... 0.3.
Moisture....... 5.7.
Volatile matter... 30.3-32.1.
Fixed carbon...... 46.9-49.8.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1868.
Discovery method... Unknown.
Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Process rate......... Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 77, 145-146, 174, 185, 222, 224, 265, 273, 320, 348, 373, 417, 430, 467-469.

USGS quadrangle maps... Sitka, A-2.

USBM sequence number... 0021140164.

214
POINT GARDINER

Commodity: Bituminous

LOCATION-OWNERSHIP

Quadrangle........ Sitka.
Mining district...... Admiralty.
Coalfield........... Unnamed.
Elevation........... 10 m.
Topography........ Gentle slope.
Domain............... National Wilderness.

Owner........... Unknown.
Operator........... Do.

GEOLOGY

Formation name.... Kootnahoo.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............... Do.
Thickness.......... Do.
Depth............... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash................. Do.
Sulfur............... Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. Less than 3 km.
Road requirement........ Less than 10 km.
Distance to power supply.. Less than 50 km.

Process rate........... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320.

USGS quadrangle maps... Sitka, A-2.

USBM sequence number... 0021140231.
COAL CREEK

Map No: 128
Alternate names: Coal Creek Coal, Lituya Bay Coal
Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle....... Mt. Fairweather.
Mining district. Juneau.
Coalfield....... Unnamed.
Elevation....... 152 m.
Topography....... Steep slope.
Domain......... National Park.

Owner............... Unknown.
Operator.......... Do.

LOCATION-OWNERSHIP

General location.. South side of Lituya Bay.

Formation name..... Cenotaph.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........ Do.
Width........ Do.
Thickness...... 0.2.
Depth........ Outcrop.

Formation age....... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability....... Not reported.
Heating value........ Do.
Composition, %: (227).
Ash.............. 29.0-29.7.
Sulfur........... 0.5.
Moisture......... 2.4.
Volatile matter... 34.6-35.5.
Fixed carbon...... 34.0-34.8.

GEOLOGY

Development

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production... Do.
Past production... Do.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement........ Less than 10 km.
Distance to power supply.. More than 100 km.

Process rate........... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

77, 185, 227, 265, 273, 320, 417.

USGS quadrangle maps... Mt. Fairweather, C-5.

USBM sequence number... 0021110019.
LITUYA BAY COAL CLAIM

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle... Mt. Fairweather. Mining district... Juneau. Coalfield... Unnamed. Elevation... 30 m. Topography... Gentle slope. Domain... National Park. Owner... Unknown. Operator... Do.

General location... 15 km northwest of Lituya Bay. Meridian... Copper River. Tract... Sec. 18, T 36 S, R 46 E. Latitude... 58°44'37" N. Longitude... 137°47'50" W.

GEOLOGY

Formation name... Cenotaph. Shape of coal seam... Tabular. Coal controls... Bedding. Strike and dip of coal seam... Not reported. Coal seam average dimensions, m. Length... Do. Width... Do. Thickness... 0.2. Depth... Outcrop.

Formation age... Tertiary. Rock relationships... Conglomerate lies over ore. Sandstone lies under ore. Coking ability... Not reported. Heating value... Do. Composition, %: (227). Ash... 29.0-29.7. Sulfur... 0.5. Moisture... 2.4. Volatile matter... 34.6-35.5. Fixed carbon... 34.0-34.8.

DEVELOPMENT

Current status... Raw prospect. Type of operation... Prospect. Year of discovery... Unknown. Discovery method... Do. Initial production... Not reported. Last production... Do. Past production... Do. Annual production... Do. Distance to water supply... Less than 3 km. Road requirement... Less than 10 km. Distance to power supply... More than 100 km. Process rate... Not reported. Product type... Do. Distance shipped... Do. Destination... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

77, 185, 227, 265, 273, 320, 373, 417. USGS quadrangle maps... Mt. Fairweather, C-6. USBM sequence number... 0021110120.
DALTON MINE

Map No: 130
Alternate names: Dalton Tunnel, Esker Stream
Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle...... Yakatat.
Mining district.. Do.
Coalfield....... Unnamed.
Elevation....... 99 m.
Topography...... Gentle slope.
Domain........... National Park.
Owner............... Jack Dalton/Jewell Brothers & Associates.
Operator........... Do.

General location.. 43 km north of Yakatat.
Meridian........... Copper River.
Tract............. Sec. 17, T 23 S, R 33 E.
Latitude........... 59°55'40" N.
Longitude......... 139°47'30" W.

LOCATION-OWNERSHIP

Formation name..... Kulthieth.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
cal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............. Do.
Thickness......... 0.3.
Depth............. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale encloses ore.
Coking ability...... Not reported.
Heating value...... Do.
Composition, %:
Ash............... Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

GEOLOGY

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1891.
Discovery method... Prospecting.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 4 km.
Distance to power supply.. Onsite.
Process rate............. Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination............. Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 319-320, 411-412, 417.
USGS quadrangle maps... Yakatat, D-5.
USBM sequence number... 0021080012.

218
DUKTOTH RIVER

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Bering Glacier.
Mining district.. Yakataga.
Coalfield...... Duktoth River.
Elevation....... 610 m.
Topography....... Steep slope.
Domain.......... Native.

General location.. 29 km north of Cape Yakataga.
Meridian......... Copper River.
Tract............. Sec. 25, T 18 S, R 17 E.
Latitude......... 60°19'30" N.
Longitude........ 142°27'00" W.

GEOLOGY

Formation name..... Kulthieth.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 80° E, 35° N.
Coal seam average
dimensions, m.
Length............. Not reported.
Width............. Do.
Thickness......... 1.2.
Depth............. Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale encloses ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %: (146).
Ash................... 23.5-23.7.
Sulfur............. 0.7.
Moisture......... 1.0.
Volatile matter... 11.5-11.6.
Fixed carbon...... 64.0-64.7.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate......... Not reported.
Product type......... Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

52-53, 145-146, 170, 174, 185,
239, 265, 273, 284, 320, 366,
417.

USGS quadrangle maps... Bering Glacier, B-4.
USBM sequence number... 0020970014.

219
WARDALL RIDGE

Map No: 132
Alternate names: None

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle....... Bering Glacier.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation........ 122 m.
Topography....... Steep slope.
Domain........... Native.

Owner............ Unknown.
Operator.......... Do.

General location.. 39 km northeast of Katalla.

Meridian......... Copper River.
Tract............ Sec. 10, T 17 S, R 08 E.
Latitude.......... 60°25'00" N.
Longitude........ 143°58'00" W.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 65° E, 45° NW.
coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 1.7.
Depth............. Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
                    Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 12,360-14,680 Btu/lb (146).
Composition, %:
                    Ash.............. 1.2-7.3.
                    Sulfur.......... 0.6-0.7.
                    Moisture........ 3.1-5.3.
                    Volatile matter... 15.6-18.5.
                    Fixed carbon...... 70.3-82.6.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 1 km.
Road requirement......... 5 km.
Distance to power supply.. Onsite.

Process rate......... Not reported.
Product type......... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 170, 174, 185, 239, 265,
273, 320, 366, 417, 421.

USGS quadrangle maps... Bering Glacier, B-8.
USBM sequence number... 0020970015.
CANYON CREEK

Map No: 132
Alternate names: Davis Camp, Davis Mine
Commodity: Anthracite
High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle....... Bering Glacier.
Mining district.. Yakataga.
Coalfield........ Bering River.
Elevation......... 244 m.
Topography....... Steep slope.
Domain........... Native.

General location.. 43 km northeast of Katalla.
Meridian........ Copper River.
Tract............. Sec. 01, T 17 S, R 08 E.
Latitude.......... 60°25'52" N.
Longitude........ 143°55'30" W.

Owner............ Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  N 80° E, 35° W.
cal seam.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 1.4.
Depth............ Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking Ability...... Not reported.
Heating value....... 11,890-15,200 Btu/lb (146).
Composition, %:
Ash................ 9.2-15.5.
Sulfur............. 0.6-0.8.
Moisture........... 7.4-7.8.
Volatile matter... 6.9-8.9.
Fixed carbon...... 71.3-91.2.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type......... Do.
Distance shipped.... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

39, 57, 73, 145-146, 174, 185,
224, 237-239, 241, 244, 246, 248,
265, 273, 320, 400, 417.

USGS quadrangle maps... Bering Glacier, B-8.

USBM sequence number... 0020970016.
CLEAR CREEK I

Map No: 132
Alternate names: None

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle: Bering Glacier.
Mining district: Yakataga.
Coalfield: Bering River.
Elevation: 488 m.
Topography: Steep slope.
Domain: Native.
Owner: Unknown.
Operator: Do.

General location: 40 km northeast of Katalla.
Meridian: Copper River.
Tract: Sec. 03, T 17 S, R 08 E.
Latitude: 60°25'25" N.
Longitude: 143°59'00" W.

GEOLOGY

Formation name: Kushtaka.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: N 90° E, 67° N.
Coal seam average dimensions, m:
Length: Not reported.
Width: Do.
Thickness: 2.7.
Depth: Outcrop.

Composition, %:
- Ash: 1.7-13.5.
- Sulfur: 0.6-3.4.
- Moisture: 1.2-6.6.
- Volatile matter: 8.7-14.6.
- Fixed carbon: 71.5-90.7.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Prospect.
Year of discovery: 1896.
Discovery method: Unknown.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: 7 km.
Distance to power supply: Onsite.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

USGS quadrangle maps... Bering Glacier, B-8.
USBM sequence number... 0020970017.
CARBON MOUNTAIN

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 44 km northeast of Katalla.

Meridian: Copper River.
Tract: Sec. 06, T 17 S, R 09 E.
Latitude: 60°25'40" N.
Longitude: 143°53'50" W.

Quadrangle: Bering Glacier.
Mining district: Yakataga.
Coalfield: Bering River.
Elevation: 427 m.
Topography: Steep slope.
Domain: Native.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Kushtaka.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of: N 80° W, 20-25° N.
Coal seam average dimensions, m:
Length: Not reported.
Width: Do.
Thickness: 2.8.
Depth: Outcrop.

Formation age: Tertiary.
Rock relationships:
Shale lies over ore.
Sandstone lies under ore.
Coking ability: Not reported.
Heating value: 12,140-15,490 Btu/lb (146).
Composition, %:
Sulfur: 0.6-1.4.
Moisture: 3.0-13.9.
Volatile matter: 5.0-11.4.
Fixed carbon: 73.9-91.7.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Prospect.

Year of discovery: 1896.
Discovery method: Unknown.

Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: 6 km.
Distance to power supply: Onsite.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

39, 145-146, 174, 185, 224, 238-239, 241, 244, 246, 248, 265, 273, 320, 361, 417.

USGS quadrangle maps... Bering Glacier, B-8.
USBM sequence number... 0020970019.
SECOND BERG LAKE

Map No: 132
Alternate names: None

Commodity: Anthracite

LOCATION-OWNERSHIP

Quadrangle...... Bering Glacier.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation....... 427 m.
Topography...... Steep slope.
Domain.......... Native.

Owner.......... Unknown.
Operator....... Do.

General location.. 48 km northeast of Katalla.
Meridian........ Copper River.
Tract........... Sec. 33, T 16 S, R 09 E.
Latitude........ 60°26'50" N.
Longitude....... 143°50'00" W.

GEOMETRY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of... N 85° W, 32° NE.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness....... 0.8.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %: (146).
Ash................ 4.9-5.1.
Sulfur............... 1.1.
Moisture.......... 3.7.
Volatile matter... 5.4-5.6.
Fixed carbon...... 86.0-89.3.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Last production...... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 11 km.
Distance to power supply.. Onsite.

Process rate........... Not reported.
Product type............ Do.
Distance shipped........ Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 174, 185, 224, 239, 241,
248, 265, 273, 320, 417.

USGS quadrangle maps... Bering Glacier, B-8.
USBM sequence number... 0020970020.
FOURTH BERG LAKE

Commodity: Anthracite

LOCATION-OWNERSHIP

Quadrangle........ Bering Glacier.
Mining district.... Yakataga.
Coalfield......... Bering River.
Elevation......... 366 m.
Topography...... Steep slope.
Domain............ Native.

Owner.............. Unknown.
Operator.......... Do.

General location.. 51 km northeast of Katalla.
Meridian.......... Copper River.
Tract............... Sec. 22, T 16 S, R 09 E.
Latitude.......... 60°28'10" N.
Longitude........ 143°48'00" W.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 76° W, 55° SW.
Coal seam average dimensions, m.
Length............... Not reported.
Width............... Do.
Thickness.......... 0.9.
Depth............... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %: (146).
Ash.................. 20.5-22.2.
Sulfur.............. 2.9-3.1.
Moisture........... 7.7.
Volatile matter... 5.8-5.3.
Fixed carbon....... 66.0-71.5.

DEVELOPMENT

Current status..... Exploration prospect.
Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Initial production.. Do.
Past production...... Do.
Past production...... Do.
Annual production... Do.

Process rate......... Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

USGS quadrangle maps... Bering Glacier, B-8.
USBM sequence number... 0020970021.
BERING RIVER

Map No: 132
Alternate names: None
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Bering Glacier.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation........ 305 m.
Topography...... Steep slope.
Domain.......... Native.

General location.. 35 km northeast of Katalla.
Meridian......... Copper River.
Tract............ Sec. 22, T 17 S, R 08 E.
Latitude......... 60°23’00” N.
Longitude....... 143°59’55” W.

Owner.......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average dimensions, m.
Length......... Do.
Width.......... Do.
Thickness....... 4.2.
Depth........... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 11,000-15,000 Btu/lb (78).
Composition, %:
Ash................. 2-18.
Sulfur.............. 0.1-1.0.
Moisture........... 1-8.
Volatile matter... 13-17.
Fixed carbon....... 65-91.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate......... Not reported.
Product type........ Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

Bering River field: Resources; Identified; 110 million short tons (80).
Hypothetical; 3,500 million short tons.

REFERENCES

35, 44, 52, 62, 68, 78-80, 238-239,
244, 246, 273, 357, 361, 417, 421.
USGS quadrangle maps... Bering Glacier, B-8.
USBM sequence number... 0020970024.

227
HARTLINE MINE

Map No: 132
Alternate names: Partline Mine
Commodity: Anthracite

LOCATION-OWNERSHIP

Quadrangle....... Bering Glacier.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation....... 549 m.
Topography....... Steep slope.
Domain.......... BLM-administrated.

Owner.......... Unknown.
Operator........ Do.

General location.. 42 km northeast of Katalla.
Meridian........ Copper River.
Tract............ Sec. 36, T 17 S, R 08 E.
Latitude......... 60°26′42" N.
Longitude........ 143°55′23" W.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
   Length........ Do.
   Width.......... Do.
   Thickness..... Do.
   Depth.......... Do.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
   Ash............ Do.
   Sulfur......... Do.
   Moisture....... Do.
   Volatile matter... Do.
   Fixed carbon..... Do.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 239, 265, 273, 320, 417.
USGS quadrangle maps... Bering Glacier, B-8.
USBM sequence number... 0020970025.

228
TROUT CREEK MINE

Map No: 133
Alternate names: Cunningham Prospect
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle....... Cordova.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation....... 137 m.
Topography....... Steep slope.
Domain .......... Native.
Owner .......... Unknown.
Operator........ Do.

General location.. 36 km northeast of Katalla.
Meridian........ Copper River.
Tract............ Sec. 07, T 17 S, R 08 E.
Latitude........ 60°25'14" N.
Longitude....... 144°03'30" W.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 65° E, 38° NW.
Coal seam average
dimensions, m.
Length.......... 182.9.
Width........... Not reported.
Thickness........ 2.2.
Depth.......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability..... Not reported.
Heating value....... 13,870-15,730 Btu/lb (1).
Composition, %:
Ash............... 3.0-10.4.
Sulfur........... 0.6-0.7.
Moisture.......... 1.0-2.7.
Volatile matter.. 16.2-18.5.
Fixed carbon...... 72.3-82.6.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1896.
Discovery method... Unknown.
Initial production.. 1905.
Last production..... Do.
Past production..... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. Onsite.
Process rate.......... Unknown.
Product type.......... Coal.
Distance shipped....... 36 km.
Destination.......... Katalla.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

39, 145-146, 174, 185, 211, 224,
239, 246, 248, 265, 273, 320, 328,
416-417, 454.

USGS quadrangle maps... Cordova, B-1.
USBM sequence number... 0020960087.

229
CLEAR CREEK 2

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 36 km northeast of Katalla.

Quadrangle: Cordova.
Mining district: Yakataga.
Coalfield: Bering River.
Elevation: 335 m.
Topography: Steep slope.
Domain: Native.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Kushtaka.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: N 65° E, 49° NW.
Coal seam average dimensions, m:
- Length: Not reported.
- Width: Do.
- Thickness: 2.7.
- Depth: Outcrop.
Formation age: Tertiary.
Rock relationships: Shale lies over ore.
Sandstone lies under ore.
Coking ability: Not reported.
Heating value: 12,350-15,830 Btu/lb (146).
Composition, %:
- Ash: 1.7-13.5.
- Sulfur: 0.6-3.4.
- Moisture: 1.2-6.6.
- Volatile matter: 8.7-14.6.
- Fixed carbon: 71.5-90.7.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: 1896.
Discovery method: Unknown.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 2 km.
Road requirement: 1 km.
Distance to power supply: Onsite.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

34, 145-146, 174, 185, 224, 239, 273, 320, 417.
USGS quadrangle maps... Cordova, B-1.
USBM sequence number... 0020960088.

230
LAKE CHARLOTTE

Map No: 133
Alternate names: Charlotte Seam
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle: Cordova.
Mining district: Yakataga.
Coalfield: Bering River.
Elevation: 76 m.
Topography: Gentle slope.
Domain: Native.
Owner: Unknown.
Operator: Do.

General location: 33 km northeast of Katalla.
Meridian: Copper River.
Tract: Sec. 04, T 17 S, R 07 E.
Latitude: 60°25'58" N.
Longitude: 144°10'18" W.

GEOLOGY

Formation name: Kushtaka.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: N 12° E, 72° SE.
Coal seam average dimensions, m.
Length: Not reported.
Width: Do.
Thickness: 2.9.
Depth: Outcrop.

Formation age: Tertiary.
Rock relationships: Shale lies over ore.
Sandstone lies under ore.
Coking ability: Not reported.
Heating value: 6,883 Btu/lb (238).
Composition, %:
Ash: 20.72.
Sulfur: 0.55.
Moisture: 0.68.
Volatile matter: 17.87.
Fixed carbon: 60.73.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Underground.
Year of discovery: 1896.
Discovery method: Unknown.

Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: 0.1 km.
Road requirement: 7 km.
Distance to power supply: Onsite.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 238-239, 241, 246, 273, 320, 417.
USGS quadrangle maps... Cordova, B-1.
USBM sequence number... 0020960099.
231
BERING RIVER COAL N.

Map No: 134
Alternate names: Bering River Coal Co., Cunningham Claim, Shield's Prospect, Kushtaka Ridge, Carbon Camp, Carbon Ridge

Commodity: High volatile B bituminous Anthracite

LOCATION-OWNERSHIP

Quadrangle...... Cordova.
Mining district.. Yakataga.
Coalfield........ Bering River.
Elevation........ 518 m.
Topography...... Steep slope.
Domain.......... Native.

General location.. 30 km northeast of Katalla.
Meridian........ Copper River.
Tract............ Sec. 22, T 17 S, R 07 E.
Latitude.......... 60°23'26" N.
Longitude........ 144°09'16" W.

Owner.......... Chugach Alaska Corporation.
Operator........ Bering Development Corporation.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 40° E, 45° W.
coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness........ 2.9.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not determined.
Heating value...... 5,500-15,750 Btu/lb (146).
Composition, %:
Ash................ 1.8-59.0.
Sulfur............. 0.3-5.3.
Moisture.......... 1.0-9.4.
Volatile matter... 13.0-17.0.
Fixed carbon...... 65.0-91.0.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Last production... Do.
Past production... Do.
Annual production... Do.

Process rate........ Not reported.
Product type........ Do.
Distance shipped..... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

Reserves: Identified; 58 million short tons (164).
REFERENCES


USGS quadrangle maps... Cordova, B-1.

USBM sequence number... 0020960054.
LEEGER TUNNEL SITE

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 29 km northeast of Katalla.

Meridian: Copper River.

Tract: Sec. 21, T 17 S, R 07 E.

Latitude: 60°23'15" N.

Longitude: 144°11'05" W.

GEOLOGY

Formation name: Kushtaka.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Strike and dip of coal seam: N 90° E, 78° N.

Coal seam average dimensions, m:

- Length: Not reported.
- Width: Do.
- Thickness: 5.9.
- Depth: Outcrop.

Coal seam average Composition, %:

- Ash: 6.06-6.31.
- Sulfur: 1.11-1.16.
- Moisture: 4.01.
- Fixed carbon: 77.47-86.15.


Formation age: Tertiary.

Rock relationships: Shale lies over ore, Sandstone lies under ore.

Coking ability: Slight.

Heating value: 14,171-15,761 Btu/lb (224).

DEVELOPMENT

Current status: Exploration prospect.

Type of operation: Prospect.

Year of discovery: 1896.

Discovery method: Unknown.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 0.1 km.

Road requirement: 0.8 km.

Distance to power supply: Onsite.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 224, 239, 241, 265, 273, 320, 331, 417.

USGS quadrangle maps... Cordova, B-1.

USBM sequence number... 0020960091.

234
TOKUN CREEK

Map No: 134
Alternate names: Tokum Creek

Location-Ownership

General location.. 25 km northeast of Katalla.

Meridian....... Copper River.
Tract............ Sec. 23, T 17 S, R 06 E.
Latitude......... 60°23'00" N.
Longitude....... 144°16'51" W.

Commodity: High volatile B bituminous

Geology

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 78° W, 40° NE. coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness......... 2.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %: (146).
Ash................ 10.3-10.8.
Sulfur............. 1.1-1.2.
Moisture.......... 4.4.
Volatile matter... 12.0-12.5.
Fixed carbon...... 73.3-76.7.

Development

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1896.
Discovery method... Unknown.

Initial production... Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Unknown.
Product type......... Coal.
Distance shipped...... 25 km.
Destination.......... Katalla.

Published Reserves-Resources

No published reserve-resource information.

References


USGS quadrangle maps... Cordova, B-1.
USBM sequence number... 0020960093.

235
CARBON CREEK COMPLEX

Map No: 134
Alternate names: Upper & Lower Tunnels, Shields Prospect Tunnel, Carbon Tunnel
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Cordova.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation........ 53 m.
Topography...... Gentle slope.
Domain......... Native.

General location.. 28 km northeast of Katalla.
Meridian........ Copper River.
Tract............ Sec. 20, T 17 S, R 07 E.
Latitude......... 60°22'55" N.
Longitude........ 144°12'00" W.

Owner......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 65° E, 60-78° NW.
coal seam.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness...... 2.7.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Fair.
Heating value....... Not reported.
Composition, %: (146).
Ash.................. 3.6-3.8.
Sulfur............ 1.6.
Moisture......... 4.2.
Volatile matter... 13.4-14.0.
Fixed carbon..... 78.8-82.2.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1896.
Discovery method... Unknown.

Distance to water supply.. 0.1 km.
Road requirement........ 2.1 km.
Distance to power supply.. Onsite.

Initial production.. Not reported.
Last production...... Do.
Past production..... Do.
Annual production... Do.

Process rate........ Unknown.
Product type........ Coal.
Distance shipped..... 28 km.
Destination........ Katalla.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

39, 73, 145, 147, 185, 224, 238-239, 241, 246, 248, 265, 273, 320, 328, 356, 392, 417, 454.

USGS quadrangle maps... Cordova, B-1.

USBM sequence number... 0020960094.
SHEPERD CREEK

Map no: 134
Alternate names: Canoe Landing, Shepard Creek
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle....... Cordova.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation....... 119 m.
Topography....... Gentle slope.
Domain........... National Forest.
General location.. 26 km northeast of Katalla.
Meridian....... Copper River.
Tract........... Sec. 30, T 17 S, R 07 E.
Latitude......... 60°21'49" N.
Longitude....... 144°14'19" W.

Owner............. Unknown.
Operator........... Do.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 20° E, 65° NW.
coil seam.
Coal seam average dimensions, m.
Length............. Not reported.
Width............. Do.
Thickness........... 1.1.
Depth............. Outcrop.
Formation age....... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 7,644 Btu/lb (238).
Composition, %:
Ash................. 10.89.
Sulfur............. 0.69.
Moisture........... 1.54.
Volatile matter... 14.58.
Fixed carbon...... 72.99.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. 1896.
Discovery method... Unknown.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.
Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination........... Do.
Distance to water supply.. 0.1 km.
Road requirement........ 4 km.
Distance to power supply.. Onsite.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 238-239, 241, 246, 265, 273, 320, 417.
USGS quadrangle maps... Cordova, B-1.
USBM sequence number... 0020960096.
KENTUCKY MINE

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 29 km northeast of Katalla.
Meridian: Copper River.
Tract: Sec. 22, T 17 S, R 07 E.
Latitude: 60°23’02” N.
Longitude: 144°08’46” W.

GEOLOGY

Formation name: Kushtaka.
Formation age: Tertiary.
Shape of coal seam: Tabular.
Rock relationships: Shale lies over ore.
Sandstone lies under ore.
Coking ability: Not reported.
Heating value: Do.
Composition, %:
Ash: Do.
Sulfur: Do.
Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Past producer.
Distance to water supply: 0.2 km.
Type of operation: Underground.
Road requirement: Do.
Year of discovery: 1896.
Distance to power supply: Onsite.
Discovery method: Unknown.

Initial production: Not reported.
Process rate: Unknown.
Last production: Do.
Product type: Coal.
Past production: Do.
Distance shipped: 29 km.
Annual production: Do.
Destination: Katalla.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 239, 265, 273, 320.
USGS quadrangle maps... Cordova, B-1.
USBM sequence number... 0020960092.
NEVADA CREEK TUNNEL

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 28 km northeast of Katalla.

Meridian: Copper River.

Tract: Sec. 20, T 17 S, R 07 E.

Latitude: 60°22'50" N.

Longitude: 144°12'41" W.

GEOLOGY

Formation name: Kushtaka.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Formation age: Tertiary.

Rock relationships: Shale lies over ore.

Sandstone lies under ore.

Coking ability: Not reported.

Heating value: Do.

Composition, % (146):

Ash: 4.9-5.2.

Sulfur: 0.6.

Moisture: 6.0.


Fixed carbon: 76.1-81.0.

DEVELOPMENT

Current status: Past producer.

Type of operation: Underground.

Distance to water supply: Onsite.

Road requirement: Existing.

Distance to power supply: Onsite.

Year of discovery: 1896.

Discovery method: Unknown.

Initial production: Not reported.

Last production: Do.

Process rate: Unknown.

Product type: Coal.

Distance shipped: 28 km.

Past production: Do.

Destination: Katalla.

Annual production: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 174, 185, 224, 239, 241, 265, 273, 320, 417.

USGS quadrangle maps... Cordova, B-1.

USBM sequence number... 0020960095.
BERING RIVER COAL S.

Map No: 135
Alternate names: Christopher’s Tunnel, Dick Creek
Commodity: High volatile B bituminous Anthracite

LOCATION-OWNERSHIP

Quadrangle....... Cordova.
Mining district.. Yakataga.
Coalfield........ Bering River.
Elevation........ 305 m.
Topography....... Steep slope.
Domain........... National Forest.

General location.. 21 km northeast of Katalla.
Meridian........... Copper River.
Tract............. Sec. 12, T 18 S, R 06 E.
Latitude........... 60°19'57" N.
Longitude......... 144°16'43" W.

Owner............. Unknown.
Operator.......... Do.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 20° W, 25° NE.
coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness........ 3.1.
Depth............. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 11,720-15,190 Btu/lb (146).
Composition, %:
Ash................ 2.6-18.3.
Sulfur............ 0.7-3.7.
Moisture.......... 5.5-6.0.
Volatile matter... 12.9-16.7.
Fixed carbon...... 64.3-88.1.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement......... 2 km.
Distance to power supply.. Onsite.

Process rate............. Not reported.
Product type............. Do.
Distance shipped........ Do.
Destination............. Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Cordova, B-1.

USBM sequence number... 0020960055.
MCDONALD MINE

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 20 km northeast of Katalla.

Quadrangle........ Cordova.
Mining district..... Yakataga.
Coalfield......... Bering River.
Elevation......... 351 m.
Topography....... Steep slope.
Domain............ National Forest.

Owner............. T. P. McDonald, and Harry Dugdale.
Operator........... Unknown.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of  Not reported.
coal seam.
Coal seam average

dimensions, m.
Length............ Do.
Width............. Do.
Thickness......... 4.6.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 11,000-15,640 Btu/lb (146).
Composition, %:
Ash................ 9.0-18.2.
Sulfur............. 0.6-2.9.
Moisture........... 1.0-8.6.
Volatile matter... 13.5-19.7.
Fixed carbon...... 65.0-83.6.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1896.
Discovery method... Unknown.
Initial production.. 1907.
Last production.... 1916.
Past production.... Not reported.
Annual production... Do.

Process rate......... Unknown.
Product type......... Coal.
Distance shipped.... 20 km.
Destination......... Katalla.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

39, 54, 145-146, 174, 185, 239,
265, 273, 320, 354-355, 400,
417.

USGS quadrangle maps... Cordova, B-1.

USBM sequence number... 0020960097.
BERING LAKE TUNNEL

Map No: 135
Alternate names: None

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Cordova.
Mining district.. Yakataga.
Coalfield....... Bering River.
Elevation....... 152 m.
Topography...... Steep slope.
Domain........... National Forest.

General location.. 19 km northeast of Katalla.
Meridian........... Copper River.
Tract............. Sec. 14, T 18 S, R 06 E.
Latitude.......... 60°19'05" N.
Longitude....... 144°17'19" W.

Owner........... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Kushtaka.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 40° E, 52° NW.
Coal seam average dimensions, m.
Length........... Not reported.
Width............... Do.
Thickness...... 2.0.
Depth........ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 14,070-14,830 Btu/lb (14G).
Composition, %:
Ash.................. 5.0-5.3.
Sulfur............... 1.2-1.3.
Moisture........... 5.1.
Volatile matter... 13.9-15.5.
Fixed carbon...... 76.0-84.5.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1896.
Discovery method... Unknown.

Initial production.. 1906.
Last production..... 1916.
Past production..... Not reported.
Annual production... Do.

Process rate........ Unknown.
Product type......... Coal.
Distance shipped..... 19 km.
Destination.......... Katalla.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

39, 44, 52, 54, 67-68, 145-146,
174, 185, 224, 238-241, 246, 265,
273, 320, 373, 417.

USGS quadrangle maps... Cordova, B-1.
USBM sequence number... 0020960098.
BOULDER CREEK COAL

Commodity: Semianthracite

LOCATION-OWNERSHIP

General location.. 67 km northeast of Palmer.

Meridian....... Seward.
Tract.......... Sec. 06, T 21 N, R 08 E.
Latitude....... 61°56'25" N.
Longitude....... 148°04'00" W.

GEOLOGY

Formation name..... Chickaloon.
Formation age....... Tertiary.
Shape of coal seam. Tabular.
Rock relationships.. Sandstone lies over ore.
Coal controls ...... Bedding.
Shale lies under ore.
Strike and dip of N 110° W, 20° NE.
Coking ability...... Not reported.
Coal seam average Heating values...... Do.
dimensions, m.
Composition, %: (170).
Length........... Not reported.
Width........... 0.4.
Sulfur............. 0.43-0.50.
Thickness....... 0.4.
Moisture........ 5.27.
Depth........... Outcrop.
Volatile matter... 35.50-41.24.
Fixed carbon...... 50.57-58.76.

DEVELOPMENT

Current status..... Raw prospect.
Distance to water supply.. 0.1 km.
Type of operation.. Prospect.
Road requirement........ 19 km.
Year of discovery.. Unknown.
Distance to power supply.. Do.
Discovery method... Do.
Process rate.......... Not reported.
Initial production.. Not reported.
Product type.......... Do.
Last production...... Do.
Distance shipped...... Do.
Past production..... Do.
Destination........... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USBM sequence number... 0020850195.
ANTHRACITE RIDGE

Map No: 137
Alternate names: Anthracite Hill

Commodity: Anthracite
High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield....... Matanuska.
Elevation....... 1280 m.
Topography...... Steep slope.
Domain.......... State.

General location.. 59 km northeast of Palmer.

Owner.......... Unknown.
Operator....... Do.

GEOLGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 70° W, 40° S.
coal seam.
Coal seam average dimensions, m.
Length.......... 30.5.
Width.......... Not reported.
Thickness....... 4.4.
Depth.......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.

Coking ability...... Yes.
Heating value....... 10,120-14,960 Btu/lb (146).
Composition, %:
Ash............... 3.8-23.5.
Sulfur.......... 0.2-0.8.
Moisture......... 1.9-7.2.
Fixed carbon..... 44.2-91.4.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1898.
Discovery method... Military exploration.

Initial production.. Not reported.
Last production...... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 3.5 km.
Distance to power supply.. Do.

Process rate........... Not reported.
Product type.......... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

Anthracite Ridge field: High assurance; 4.5 million short tons (267).
Moderate assurance; 10 million short tons.
Low assurance; 20 million short tons.

246
REFERENCES


USGS quadrangle maps... Anchorage, D-3.

USBM sequence number... 0020850193.

247
CHICKALOON

Map No: 138
Alternate names: None

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 41 km northeast of Palmer.
Meridian: Seward.
Tract: Sec. 25, T 20 N, R 05 E.
Latitude: 61°47'50" N.
Longitude: 148°27'45" W.

Owner: Navy Alaska Coal Commission.
Operator: Do.

GEOLOGY

Formation name: Chickaloon.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of N 50-70° N, 65-85° S.
Coal seam average dimensions, m:
Length: 304.8.
Width: Not reported.
Thickness: 1.9.
Depth: Outcrop.

Formation age: Tertiary.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Coking ability: Good.
Heating value: 10,270-15,480 Btu/lb (4).

Composition, %:
Ash: 8.0-30.1.
Sulfur: 0.5-0.9.
Moisture: 1.2-3.5.
Volatile matter: 15.0-23.9.
Fixed carbon: 53.5-79.7.

DEVELOPMENT

Current status: Past producer.
Type of operation: Surface-underground.
Year of discovery: Unknown.
Discovery method: Do.
Initial production: 1911.
Last production: 1922.
Past production: 27,557 mt.
Annual production: Not reported.

Distance to water supply: Onsite.
Road requirement: Existing.
Distance to power supply: Onsite.
Process rate: Unknown.
Product type: Coal.
Distance shipped: 98 km.
Destination: Anchorage.

PUBLISHED RESERVES-RESOURCES

Chickaloon field: Resources:
High assurance: 20.5 million short tons (270).
Moderate assurance: 30 million short tons.
Low assurance: 40 million short tons.
REFERENCES


USGS quadrangle maps... Anchorage, D-4.

USBM sequence number... 0020850189.
COAL CREEK

Alternate names: Ross Heckey, Heckey Mine
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Anchorage.
Mining district..... Willow Creek.
Coalfield........ Matanuska.
Elevation........ 300 m.
Topography....... Gentle slope.
Domain.......... State.

General location.. 36 km northeast of Palmer.

Meridian......... Seward.
Tract........... Sec. 31, T 20 N, R 06 E.
Latitude........ 61°46'45" N.
Longitude....... 148°25'40" W.

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 64° E, 70° SE.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 1.8.
Depth............ Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Good.
Heating value....... 11,400-15,530 Btu/lb (146).
Composition, %:
Ash............... 5.8-23.3.
Sulfur............ 0.4-1.0.
Moisture.......... 1.1-4.1.
Volatile matter... 13.8-27.0.
Fixed carbon...... 56.3-83.6.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1921.
Last production.... 1930.
Past production.... 1,819 mt.
Annual production... Not reported.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped...... 98 km.
Destination............ Anchorage.

PUBLISHED RESERVES-RESOURCES

Identified reserves; 2 million short tons (267).
REFERENCES

1, 35, 57-58, 70, 91-92, 111-112, 121,
143, 145-146, 156, 170, 174, 181-182,
221, 224, 248-249, 252, 265, 267, 273,
290, 307, 320, 366, 368, 377, 378-386,
403; 417, 454.

USGS quadrangle maps... Anchorage, D-4.

USBM sequence number... 0020850190.
MATANUSKA RIVER COAL
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP
General location.. 44 km northeast of Palmer.


Owner............ Unknown. Operator........ Do.

GEOLOGY

Formation age...... Tertiary. Rock relationships.. Sandstone lies over ore. Shale lies under ore. Coking ability...... Not reported. Heating value.... 9,670-13,600 Btu/lb (146). Composition, %:
Ash............... 18.6-20.7. Sulfur............ 0.3-0.4. Moisture......... 10.3. Volatile matter... 24.8-34.8. Fixed carbon...... 46.3-65.2.

DEVELOPMENT
Current status..... Raw prospect. Type of operation.. Prospect. Year of discovery.. Unknown. Discovery method... Do.

Initial production.. Not reported. Last production..... Do. Past production..... Do. Annual production... Do.

Distance to water supply.. 0.1 km. Road requirement........ 1.5 km. Distance to power supply.. 2 km.

Process rate.......... Not reported. Product type.......... Do. Distance shipped........ Do. Destination........... Do.

PUBLISHED RESERVES-RESOURCES
No published reserve-resource information.

REFERENCES

USGS quadrangle maps... Anchorage, D-4. USBM sequence number... 0020850192.

252
CASTLE MOUNTAIN MINE

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location.. 38 km northeast of Palmer.

Meridian........ Seward.
Tract............ Sec. 21, T 20 N, R 05 E.
Latitude.......... 61°48'57" N.
Longitude........ 148°32'50" W.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 22° W, 37° NE.
Coal seam average
dimensions, m.
Length........... 75.
Width............ 22.9.
Thickness......... 2.2.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability...... Yes.
Heating value....... 12,258-15,238 Btu/lb (333).

Composition, %:
Ash................ 17.78-18.10.
Sulfur............ 0.46-0.57.
Moisture........... 1.08-1.78.
Volatile matter... 28.23-35.10.
Fixed carbon...... 52.20-64.90.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1958.
Last production..... 1960.
Past production.... 22,855 mt.
Annual production... 1958-11,564 mt, 1960-11,291 mt.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. Onsite.
Process rate........... Unknown.
Product type............ Coal.
Distance shipped...... 134 km.
Destination.......... Anchorage.

PUBLISHED RESERVES-RESOURCES

Castle Mountain field: Resources; High assurance; 6.5 million short tons (270).
Moderate assurance; 10 million short tons.
Low assurance; 25 million short tons.
REFERENCES


USGS quadrangle maps... Anchorage, D-5.

USBM sequence number... 0020850167.
RED MOUNTAIN

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

General location: 32 km northeast of Palmer.

Meridian: Seward.

Tract: Sec. 23, T 20 N, R 04 E.

Latitude: 61°48'12" N.

Longitude: 148°41'30" W.

GEOLOGY

Formation name: Chickaloon.

Formation age: Tertiary.

Rock relationships: Sandstone lies over ore. Shale lies under ore.

Coking ability: No.

Heating value: 11,230-13,300 Btu/lb (146).

Composition, %:
- Ash: 5.1-5.7.
- Sulfur: 0.2-0.3.
- Moisture: 10.6.
- Volatile matter: 33.80-40.1.
- Fixed carbon: 50.5-59.9.

DEVELOPMENT

Current status: Raw prospect.

Distance to water supply: 0.1 km.

Type of operation: Prospect.

Road requirement: 6 km.

Year of discovery: Unknown.

Distance to power supply: Do.

Discovery method: Do.

Process rate: Not reported.

Initial production: Not reported.

Product type: Do.

Last production: Do.

Distance shipped: Do.

Past production: Do.

Destination: Do.

Annual production: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES


USGS quadrangle maps... Anchorage, D-5.

USBM sequence number... 0020850184.
YOUNG CREEK

Map No: 140
Alternate names: None
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location.. 29 km northeast of Palmer.

Meridian......... Seward.
Tract........... Sec. 34, T 20 N, R 04 E.
Latitude......... 61°46'29" N.
Longitude........ 148°41'45" W.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 15° E, 20° NW.
coil seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 0.5.
Depth.............. Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... No.
Heating value....... 11,230-13,430 Btu/lb (146).
Composition, %:
Ash................ 5.1-10.6.
Sulfur............. 0.2-0.6.
Moisture........... 2.5-10.6.
Volatile matter.... 28.3-40.1.
Fixed carbon....... 50.5-60.4.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production.... Do.
Annual production... Do.

Process rate........... Not reported.
Product type........... Do.
Distance shipped...... Do.
Destination............ Do.

PUBLISHED RESERVES-RESOURCES

Young Creek field: Resources; High assurance; 2.5 million short tons (267).
Moderate assurance; 5 million short tons.
Low assurance; 8 million short tons.
REFERENCES

90, 112, 143, 145-146, 156, 174,
181-182, 185, 221, 224, 248-249,
252, 265, 267, 273, 307, 320,
366, 405, 417.

USGS quadrangle maps... Anchorage, D-5.

USBM sequence number... 0020850185.
KINGS RIVER

Map No: 140
Alternate names: Kings Creek

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield....... Matanuska.
Elevation........ 300 m.
Topography...... Gentle slope.
Domain.......... Native.

Owner.......... Unknown.
Operator......... Do.

General location.. 33 km northeast of Palmer.

Meridian........ Seward.
Tract............ Sec. 31, T 20 N, R 05 E.
Latitude.......... 61°47'15" N.
Longitude....... 148°37'40" W.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 18° E, 18° SE.
coal seam.
Coal seam average
dimensions, m.
  Length.......... 402.
  Width............ Not reported.
  Thickness....... 2.4.
  Depth......... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
                    Shale lies under ore.
Coking ability...... Fair.
Heating value....... 11,690-15,470 Btu/lb (146).
Composition, %:
  Ash................ 8.6-16.5.
  Sulfur............ 0.1-0.7.
  Moisture........... 1.8-6.6.
  Volatile matter... 3.9-27.8.
  Fixed carbon...... 58.5-95.6.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........ Not reported.
Product type.......... Do.
Distance shipped..... Do.
Destination............. Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Anchorage, D-5.

USBM sequence number... 0020850187.
CARPENTER CREEK

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location.. 31 km northeast of Palmer.
Meridian.......... Seward.
Tract............ Sec. 18, T 19 N, R 05 E.
Latitude.......... 61°44'30" N.
Longitude........ 148°36'35" W.

GEOLOGY

Formation name..... Chickaloon.
Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... No.
Heating value....... Not reported.
Composition, %:
Ash............... Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement......... 2 km.
Distance to power supply.. 2.5 km.

Process rate........... Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

112, 143, 156, 181-182, 185, 221, 248, 265, 267, 273, 290, 320, 417.
USGS quadrangle maps... Anchorage, C-5.
USBM sequence number... 0020850186.
WILLIAM RHINEHART & ASSOCs.

Map No: 142
Alternate names: Granite Coal Mine
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield......... Matanuska.
Elevation........ 260 m.
Topography....... Gentle slope.
Domain.......... State.
Owner........... Unknown.
Operator......... Do.
General location.. 22 km northeast of Palmer.
Meridian......... Seward.
Tract............. Sec. 18, T 19 N, R 04 E.
Latitude......... 61°44′07″ N.
Longitude....... 148°47′47″ W.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Flat lying.
coal seam.
Coal seam average
dimensions, m.
Length........... Not reported.
Width........... Do.
Thickness....... Do.
Depth.......... Do.
Formation age...... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability...... No.
Heating value...... Not reported.
Composition, %:
Ash................. Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method,. Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production.. Do.
Distance to water supply.. 0.1 km.
Road requirement........ 1.0 km.
Distance to power supply.. Do.
Process rate............. Not reported.
Product type........... Do.
Distance shipped....... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

112, 143, 156, 181-182, 185, 221,
248, 265, 273, 324, 417.
USGS quadrangle maps... Anchorage, C-5.
USBM sequence number... 0020850183.

261
EVAN JONES

Map No: 143
Alternate names: Evan Jones Coal Co., Jonesville Mine Complex

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield......... Matanuska.
Elevation........ 427 m.
Topography...... Gentle slope.
Domain........... State.

General location.. 17 km northeast of Palmer.

Meridian........... Seward.
Tract............... Sec. 17, T 19 N, R 03 E.
Latitude........... 61°43'52" N.
Longitude......... 148°56'05" W.

Owner............ Placer U.S. Inc.
Operator......... Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 70° E, 30-50° S.

Coal seam average
dimensions, m.
Length........... 1,432.6.
Width............. Not reported.
Thickness......... 1.8.
Depth............ Outcrop.

Formiation age....... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.

Coking ability...... Poor.
Heating value...... 10,290-14,400 Btu/lb (146).

Composition, %:
Ash................ 8.1-24.5.
Sulfur............. 0.2-0.6.
Moisture.......... 2.0-8.9.
Volatile matter... 33.7-49.0.
Fixed carbon...... 37.4-54.4.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1921.
Last production.... 1968.
Past production..... 6.6 Mmt.
Annual production.. Not reported.

Distance to water supply.. Onsite.
Road requirement....... Existing.
Distance to power supply... Onsite.

Process rate........... 200 mt/d.
Product type............ Coal.
Distance shipped....... 97 km.
Destination............... Anchorage.

PUBLISHED RESERVES-RESOURCES

Reserves: Identified; 100 million short tons (267).
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850181.
ESKA MINE

Map No: 143
Alternate names: Eska Creek, Knob Creek, Alaska Engineering Commission, McCauley Prospect, Eska Complex.

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Anchorage.
Mining district... Willow Creek.
Coalfield......... Matanuska.
Elevation......... 290 m.
Topography....... Gentle Slope.
Domain........... State.

General location.. 18 km northeast of Palmer.

Owner........... The Alaska Railroad.
Operator.......... Do.

Owner........... The Alaska Railroad.
Operator.......... Do.

GEOLOGY

Origin............. Sedimentation.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of  N 60° E, 30-40° NW.
Coal seam average
dimensions, m.
Length............ 304.8.
Width............... Not reported.
Thickness.......... 2.9.
Depth............... Outcrop.

Geologic age........ Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability...... No.
Heating value...... 9,630-14,610 Btu/lb (146).
Composition, %:
Ash.................. 5.5-28.9.
Sulfur.............. 0.3-0.6.
Moisture........... 2.7-6.4.
Volatile matter... 34.3-49.0.
Fixed carbon...... 33.6-53.9.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1917.
Last production.... 1945.
Past production.... 236,993 mt.
Annual production... Not reported.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Process rate.............. 100 mt/d.
Product type............ Coal.
Distance shipped........ 98 km.
Destination............. Anchorage.

PUBLISHED RESERVES-RESOURCES

Reserves: 1.15 million short tons (74).
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850182.
KNOB CREEK COMPLEX

Map No: 143
Alternate names: Knob Creek Mine, Mrak Coal Mine, South Knob Creek Mine

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle......... Anchorage.
Mining district.. Willow Creek.
Coalfield........... Matanuska.
Elevation........... 465 m.
Topography........ Gentle slope.
Domain............. Native.

General location.. 20 km northeast of Palmer.

Owner............... Knob Creek Coal Company.
Operator........... Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
strike and dip of coal seam. Not reported.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.

Shale lies under ore.

Coking ability..... No.
Heating value....... 10,200 Btu/lb (267).

Composition, %:
Ash.................. 9.0.
Sulfur.............. 0.4.

Moisture........... Not reported.
Volatile matter... Do.

Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1953.
Last production..... 1966.
Past production..... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. 20 km.

Process rate.......... Unknown.
Product type......... Coal.

Distance shipped...... 113 km.
Destination.......... Anchorage.

PUBLISHED RESERVES-RESOURCES

Resources: Estimated; 27 million short tons (267).
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850260.
SOUTH EVAN JONES MINE

Map No: 143
Alternate names: None
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle.......... Anchorage.
Mining district.. Willow Creek.
Coalfield........ Matanuska.
Elevation........... 533 m.
Topography....... Gentle slope.
Domain......... State.

General location.. 17 km northeast of Palmer.
Meridian.......... Seward.
Tract.............. Sec. 17, T 19 N, R 03 E.
Latitude........... 61°44′32″ N.
Longitude......... 148°56′10″ W.

Owner............ Rock Springs Royalty Company.
Operator........ Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam.. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............. Do.
Thickness....... Do.
Depth........... Do.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... No.
Heating value....... Not reported.
Composition, %:
Ash................ Do.
Sulfur........... Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Distance to water supply.. 1 km.
Road requirement.......... Existing.
Distance to power supply.. 1 km.

Year of discovery.. Unknown.
Discovery method... Do.

Process rate........... Not reported.
Product type........ Do.
Distance shipped....... Do.
Destination........... Do.

Initial production.. Not reported.
Last production...... Do.
Past production...... Do.
Annual production... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

8, 112, 143, 156, 181-182, 185, 221, 248, 265, 273, 320, 417.
USGS quadrangle maps... Anchorage, C-6.
USBM sequence number... 0020850281.

268
NORTH EVAN JONES MINE

Map No: 143
Alternate names: None
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield....... Matanuska.
Elevation....... 472 m.
Topography...... Steep slope.
Domain.......... State.
General location.. 11 km north of Palmer.

Owner........... Rock Springs Royalty Company.
Operator........ Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam Tabular.
Coal controls...... Bedding.
Rock relationships.. Sandstone lies over ore.
Strike and dip of Not reported.
coal seam.
Shale lies under ore.
Coal seam average
Composition, %:

dimensions, m.
Length........... Do.
Sulfur........... Do.
Width........... Do.
Moisture......... Do.
Thickness........ Do.
Volatile matter... Do.
Depth........... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Distance to water supply.. 0.3 km.
Type of operation.. Prospect.
Road requirement........ 2 km.
Year of discovery.. Unknown.
Distance to power supply.. 4.6 km.
Discovery method... Do.

Initial production.. Not reported.
Process rate........... Not reported.
Last production...... Do.
Product type........... Do.
Past production..... Do.
Distance shipped........ Do.
Annual production... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

8, 112, 143, 156, 181-182, 185, 221, 248, 265, 273, 320, 417.
USGS quadrangle maps... Anchorage, C-6.
USBM sequence number... 0020850282.
PREMIER MINE

Map No: 144

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield....... Matanuska.
Elevation........ 335 m.
Topography...... Gentle slope.
Domain.......... State.

General location.. 10 km north of Palmer.
Meridian......... Seward.
Tract.......... Sec. 23, T 19 N, R 02 E.
Latitude......... 61°42'08" N.
Longitude........ 149°05'31" W.

Owner............. Hawley Resources Properties, Inc./Rocky Mountain Energy.
Operator........... Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
strike and dip of N 33° E, 70° SE. coal seam.
Coal seam average
dimensions, m.
Length............ Not reported.
Width............. Do.
Thickness......... 2.4.
Depth............. Outcrop.

Formation age....... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Sandstone lies under ore.
Coking ability....... Yes - strong.
Heating value....... 11,090-14,310 Btu/lb (145).
Composition, %:
Ash................ 6.3-17.4.
Sulfur............. 0.2-0.4.
Moisture......... 4.2-5.8.
Volatile matter... 37.6-44.1.
Fixed carbon...... 40.8-55.9.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1925.
Last production.... 1983.
Past production..... 176,367 mt.
Annual production... Not reported.

Process rate........... 100 mt/d.
Product type............ Coal.
Distance shipped....... 99.8 km.
Destination............... Anchorage.

PUBLISHED RESERVES-RESOURCES

Reserves: Indicated; 370,000 short tons (453).
Inferred; 500,000 short tons.
REFERENCES

1, 8, 12-13, 20, 26, 33, 45, 42, 44,
78, 112, 121, 143, 145, 156, 164-165,
174-175, 181-182, 188, 211, 219, 265,
267, 273, 290, 320, 328, 333, 337, 342,
355, 377-386, 402, 416-417, 421, 427-428,

USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850168.
DOHERTY MINE

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 9 km north of Palmer.
Meridian: Seward.
Tract: Sec. 02, T 18 N, R 02 E.
Latitude: 61°40'53" N.
Longitude: 149°01'50" W.

Owner: O. Shearer, and H. Wilcox.
Operator: Unknown.

GEOLOGY

Formation name: Chickaloon.
Formation age: Tertiary.
Shape of coal seam: Tabular.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Coking ability: Slight.
Heating value: 10,460-11,260 Btu/lb (146).
Composition, %:
- Ash: 19.8-20.7.
- Sulfur: 0.5.
- Moisture: 4.3-7.1.
- Volatile matter: 31.6-35.6.
- Fixed carbon: 41.0-44.1.

DEVELOPMENT

Current status: Past producer.
Distance to water supply: Onsite.
Type of operation: Underground.
Road requirement: Existing.
Year of discovery: Unknown.
Distance to power supply: Onsite.
Discovery method: Do.

Initial production: 1916.
Process rate: 80 mt/d.
Last production: 1953.
Product type: Coal.
Past production: 55,115 mt.
Distance shipped: 80 km.
Annual production: Not reported.
Destination: Anchorage.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850178.
HOWARD-JESSON
Map No: 144
Alternate names: Leroy Permit, Matanuska Center, Alaska Matanuska Coal Company
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP
Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield....... Matanuska.
Elevation....... 370 m.
Topography...... Gently rolling.
Domain.......... State.
General location.. 15 km north of Palmer.
Owner.......... Hawley Resources Properties, Inc.
Operator....... Do.

Meridian........ Seward.
T 19 N, R 02 E.
Lat. 61°43'40" N.
Long. 149°02'35" W.

GEOLOGY
Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 32° E, 65° S.
Coal seam average
dimensions, m.
Length.......... Not reported.
Width......... Do.
Thickness....... 2.7.
Depth.......... Outcrop.
Coal seam average
Composition, %:
Ash.............. 9.5-20.1.
Sulfur.......... 0.2-1.4.
Moisture........ 5.5-5.8.
Volatile matter... 35.8-47.6.
Fixed carbon...... 39.4-53.6.
Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value...... 10,590-14,070 Btu/lb (146).

DEVELOPMENT
Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. Unknown.
Discovery method... Do.
Distance to water supply.. Onsite.
Distance to power supply.. Onsite.
Initial production.. 1929.
Last production..... Do.
Past production...... Not reported.
Annual production... Do.
Process rate........... Unknown.
Product type........... Coal.
Distance shipped..... 85 km.
Destination............ Anchorage.

PUBLISHED RESERVES-RESOURCES
No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850179.
BUFFALO MINE

Map No: 144
Alternate names: Buffalo Coal Company
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Anchorage.
Mining district... Willow Creek.
Coalfield.......... Matanuska.
Elevation......... 312 m.
Topography........ Gentle slope.
Domain........... State.
General location.. 19 km north of Palmer.

Owner........... Hawley Resource Properties, Inc.
Operator........ Do.

Meridian......... Seward.
Tract........... Sec. 23, T 19 N, R 02 E.
Latitude......... 61°43’18” N.
Longitude....... 149°03’18” W.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 41° E, 52-65° SE.
Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Coking ability...... Poor.
Coal seam average Bedding. Shale lies under ore.
Composition, %:
Ash............ 6.4-35.4.
Sulfur.......... 0.2-0.6.
Moisture........ 3.2-6.0.
Volatile matter... 30.7-48.9.
Fixed carbon..... 31.4-56.5.

DEVELOPMENT

Current status..... Past producer.
Year of discovery.. 1939.
Discovery method... Prospecting.

Type of operation.. Underground.
Distance to water supply.. Onsite.
Distance to power supply.. Onsite.
Distances shipped...... 80 km.
Destinations........ Anchorages.
Process rate............ Unknown.

Initial production.. 1942.
Last production...... 1945.
Past production..... 5,291 mt.
Annual production... Not reported.
Product type........ Coal.

PUBLISHED RESERVES-RESOURCES

Reserves: Measured; 0.5 million short tons (20).
Indicated; 0.49 million short tons.
Inferred; 1.37 million short tons.
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850285.
BAXTER MINE

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Anchorage.
Mining district... Willow Creek.
Coalfield......... Matanuska.
Elevation.......... 308 m.
Topography....... Gentle slope.
Domain............ State.

General location.. 18 km north of Palmer.
Meridian......... Seward.
Tract............. Sec. 27, T 19 N, R 02 E.
Latitude.......... 61°42'45" N.
Longitude........ 149°04'19" W.

Owner............ Hawley Resource Properties, Inc.
Operator........ Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 40-60° E, 20° SE.
coal seam.
Coal seam average dimensions, m.
Length............... 426.
Width.............. Not reported.
Thickness.......... 3.4.
Depth............. Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Poor.
Heating value....... 12,450-14,310 Btu/lb (146).
Composition, %:
Ash.................. 5.8-8.3.
Sulfur............... 0.3.
Moisture............ 4.6-5.2.
Volatile matter... 39.7-45.6.
Fixed carbon........ 47.3-54.4.

DEVELOPMENT

Current status...... Past producer.
Type of operation.. Underground.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. 1917.
Last production.... 1925.
Past production..... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Process rate............ Unknown.
Product type............ Coal.
Distance shipped....... 79 km.
Destination............ Anchorage.

PUBLISHED RESERVES-RESOURCES

Resources depleted (19).

278
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850286.
RAWSON MINE

Map No: 144
Alternate names: New Black Diamond Coal Co., Wishbone Hill Coal Co., Moose Creek Coal Co.
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Anchorage.
Mining district.. Willow Creek.
Coalfield........ Matanuska.
Elevation......... 370 m.
Topography....... Gentle slope.
Domain........... State.

General location.. 14 km north of Palmer.
Meridian......... Seward.
Tract............ Sec. 14, T 19 N, R 02 E.
Latitude.......... 61°43'52" N.
Longitude........ 149°01'50" W.

Owner............ Hawley Resources Properties, Inc.
Operator........... Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of S 82° E, 60° N.
Coal seam average dimensions, m.
   Length.......... Not reported.
   Width........... Do.
   Thickness....... 2.6.
   Depth.......... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
                    Shale lies under ore.
Coking Ability...... No.
Heating value....... 10,030-14,200 Btu/lb (146).
Composition, %:
   Ash............. 7.6-24.3.
   Sulfur.......... 0.2-0.5.
   Moisture........ 3.7-8.6.
   Volatile matter.. 37.5-44.8.
   Fixed carbon..... 32.6-55.2.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. 1921.
Last production.... 1938.
Past production.... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. Onsite.
Process rate............ Unknown.
Product type............. Coal.
Distance shipped........ 84 km.
Destination............ Anchorage.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850180.
WISHBONE HILL

Map No: 144
Alternate names: New Black Diamond Coal Co., Wishbone Hill Coal Company
Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle........ Anchorage.
Mining district.. Willow Creek.
Coalfield........ Matanuska.
Elevation........ 396 m.
Topography...... Gentle slope.
Domain.......... State.

General location.. 12 km north of Palmer.
Meridian......... Seward.
Tract............. Sec. 23, T 19 N, R 02 E.
Latitude.......... 61°43'20" N.
Longitude........ 149°02'25" W.

Owner.......... Hawley Resource Properties, Inc.
Operator........ Do.

GEOLOGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N.80° E, 30° N.
coal seam.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness........ 1.8.
Depth........... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... No.
Heating value....... 10,400-13,200 Btu/lb (78).
Composition, %:
Ash................ 4-22.
Sulfur............ 0.2-1.0.
Moisture.......... 3-9.
Volatile matter... 32-45.
Fixed carbon...... 38-51.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production.. Do.

Distance to water supply.. 0.1 km.
Road requirement........ 0.8 km.
Distance to power supply.. Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination............ Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Anchorage, C-6.

USBM sequence number... 0020850283.
BARRETT, LOHNES, THORPE & POMROY

Map No: 145
Alternate names: None

Commodity: Subbituminous B

LOCATION-OWNERSHIP

Quadrangle........ Anchorage.
Mining district........ Willow Creek.
Coalfield........ Unnamed.
Elevation........ 245 m.
Topography........ Gentle slope.
Domain........ State.
Owner........ Unknown.
Operator........ Do.

General location........ 13 km northwest of Palmer.

Meridian........ Seward.
Tract........ Sec. 34, T 19 N, R 01 E.
Latitude........ 61°41’50” N.
Longitude........ 149°16’00” W.

GEOLOGY

Formation name........ Chickaloon.
Shape of coal seam........ Tabular.
Coal controls........ Bedding.
Strike and dip of coal seam........ Not reported.
Coal seam average dimensions, m.
Length........ Do.
Width........ Do.
Thickness........ Do.
Depth........ Do.

Formation age........ Tertiary.
Rock relationships........ Conglomerate lies over ore.
Shale lies under ore.
Coking Ability........ Not reported.
Heating value........ Do.
Composition, %:
Ash........ Do.
Sulfur........ Do.
Moisture........ Do.
Volatile matter........ Do.
Fixed carbon........ Do.

DEVELOPMENT

Current status........ Exploration prospect.
Type of operation........ Prospect.
Year of discovery........ Unknown.
Discovery method........ Do.
Initial production........ Not reported.
Last production........ Do.
Past production........ Do.
Annual production........ Do.

Distance to water supply........ Onsite.
Road requirement........ Existing.
Distance to power supply........ Onsite.
Process rate........ Not reported.
Product type........ Do.
Distance shipped........ Do.
Destination........ Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

143, 156, 185, 265, 273, 320, 417.

USGS quadrangle maps...... Anchorage, C-7.
USBM sequence number...... 0020850174.
BARTHOLOM

Map No: 146
Alternate names: Grohnert, Dodson, & Brown, Stadler-Harris, Coal Creek
Commodity: Subbituminous B

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield....... Unnamed.
Elevation........ 120 m.
Topography..... Gentle slope.
Domain.......... Native.
General location.. 19 km northwest of Palmer.
Meridian......... Seward.
Tract........... Sec. 16, T 18 N, R 01 W.
Latitude......... 61°39'23" N.
Longitude....... 149°27'35" W.

GEOLGY

Formation name..... Chickaloon.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of East-west, 13-20° S.
c Coal seam.
Coal seam average
dimensions, m.
Length........... 396.2.
Width............ Not reported.
Thickness....... 1.4.
Depth........... Outcrop.
Formation age...... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,460-12,920 Btu/lb (43).

Coal seam average Composition, %:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Ash</td>
<td>20.5-23.8</td>
</tr>
<tr>
<td>Sulfur</td>
<td>0.4-0.5</td>
</tr>
<tr>
<td>Moisture</td>
<td>14.1</td>
</tr>
<tr>
<td>Volatile matter</td>
<td>31.1-47.8</td>
</tr>
<tr>
<td>Fixed carbon</td>
<td>34.1-52.2</td>
</tr>
</tbody>
</table>

 DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1917.
Discovery method... Unknown.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.
Process rate........... Not reported.
Product type........... Do.
Distance shipped.... Do.
Destination......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

43, 143, 185, 265, 273, 320, 417.
USGS quadrangle maps... Anchorage, C-7.
USBM sequence number... 0020850171.

285
HOUSTON COAL CO.

Commodity: Subbituminous B

LOCATION-OWNERSHIP

General location.. 1 km northwest of Houston.

Quadrangle..... Anchorage.
Mining district.. Willow Creek.
Coalfield........ Unnamed.
Elevation....... 100 m.
Topography...... Low-lying.
Domain.......... State.

Owner.......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length.......... 804.7.
Width........... 1,609.3.
Thickness....... 1.3.
Depth........... 8-18.

Formation age...... Tertiary.
Rock relationships.. Conglomerate lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value...... 8,260-10,730 Btu/lb (146).
Composition, %:
Ash............... 13.4-19.6.
Sulfur........... 0.1-0.2.
Volatile matter... 33.6-49.5.
Fixed carbon...... 27.4-42.2.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.

Year of discovery.. 1917.
Discovery method... Unknown.
Initial production... 1948.
Last production..... 1954.
Past production..... 99,206 mt.
Annual production... Not reported.

Process rate......... Unknown.
Product type......... Coal.
Distance shipped...... 98 km.
Destination.......... Anchorage.

PUBLISHED RESERVES-RESOURCES

Reserves: Estimated; 14.58 million short tons (254).
REFERENCES


USGS quadrangle maps... Anchorage, C-8.

USBM sequence number... 0020850169.
Map No: 147
Alternate names: None

COMMODITY: Subbituminous B

LOCATION-OWNERSHIP

General location: 41 km west of Palmer.

Meridian: Seward.

Tract: Sec. 24, T 18 N, R 04 W.

Latitude: 61°38'11" N.

Longitude: 149°54'14" W.

GEOLOGY

Formation name: Unnamed.

Formation age: Tertiary.

Rock relationships: Not reported.

Coal controls: Bedding.

Coking ability: Do.

Heating value: Do.

Composition, %: (1).

Ash: 19.0.

Sulfur: 0.4.

Moisture: Not reported.

Volatile matter: Do.

Fixed carbon: Do.

DEVELOPMENT

Current status: Past producer.

Type of operation: Underground.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: 1917.

Last production: 1920.

Past production: 11,023 mt.

Annual production: Not reported.

Process rate: Unknown.

Product type: Coal.

Distance shipped: 3 km.

Destination: Houston.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 143, 185, 265, 273, 320, 417.

USGS quadrangle maps... Anchorage, C-8.

USBM sequence number... 0020850287.
YENTNA RIVER

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... Tyonek.
Mining district.. Yentna.
Coalfield....... Beluga-Yentna.
Elevation....... 43 m.
Topography...... Low-lying.
Domain.......... State.

General location.. 30 km west of Willow.
Meridian......... Seward.
Tract.......... Sec. 17, T 18 N, R 07 W.
Latitude......... 61°39'05" N.
Longitude....... 150°35'20" W.

Owner......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls... Bedding.
Strike and dip of coal seam.
Coal seam average dimensions, m.
  Length......... Do.
  Width.......... Do.
  Thickness...... 15.2.
  Depth.......... 45.7.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
                     Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,000 Btu/lb (269).
Composition, %:
  Ash................ Variable.
  Sulfur.......... Less than 5.
  Moisture....... Not reported.
  Volatile matter... Do.
  Fixed carbon..... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement......... Do.
Distance to power supply.. 30 km.

Process rate............ Not reported.
Product type............ Do.
Distance shipped......... Do.
Destination............ Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 91, 95, 102, 265, 269, 273, 417.

USGS quadrangle maps... Tyonek, C-2.
USBM sequence number... 0020840028.

289
SUSITNA STATION

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location.. 33 km southwest of Willow.

Meridian....... Seward.
Tract........... Sec. 22, T 17 N, R 07 W.
Latitude........ 61°32'37" N.
Longitude.... 150°30'30" W.

GEOLOGY

Formation name..... Tyonek.
Formation age...... Tertiary.
Shape of coal seam. Tabular.
Rock relationships.. Sandstone lies over ore.
Strike and dip of Not reported.
coal seam.
Shale lies under ore.
Coal controls...... Bedding.
Coal seam average Not reported.
dimensions, m.
Length.......... Do.
Width.......... Do.
Thickness...... Do.
Depth.......... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Distance to water supply.. 0.1 km.
Type of operation.. Prospect.
Road requirement....... Do.
Year of discovery.. Unknown.
Distance to power supply.. 19 km.
Discovery method... Do.

Initial production.. Do.
Process rate........ Not reported.
Last production.... Do.
Product type........ Do.
Past production..... Do.
Distance shipped...... Do.
Annual production... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

91, 100, 273, 342, 354, 355.
USGS quadrangle maps... Tyonek, C-2.
USBM sequence number... 0020840029.
EAGLE RIVER MINE

Commodity: Subbituminous

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Willow Creek.
Coalfield....... Unnamed.
Elevation....... 8 m.
Topography...... Low-lying.
Domain......... Military reservation.

General location.. 5 km north of Anchorage.
Meridian........ Seward.
Tract........... Sec. 07, T 14 N, R 02 W.
Latitude........ 61°18'53" N.
Longitude....... 149°42'48" W.

Owner........... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............ Do.
Thickness....... Do.
Depth........... Do.

Formation age...... Tertiary.
Rock relationships.. Not reported.
Coking ability..... Not reported.
Heating value....... Do.
Composition, %:
Ash................. Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement.......... 1.2 km.
Distance to power supply.. 2.2 km.

Process rate........... Not reported.
Product type............... Do.
Distance shipped........... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

143, 185, 265, 273, 320, 417.

USGS quadrangle maps... Anchorage, B-8.
USBM sequence number... 0020850288.
ALASKA PEAT

Map No: 151
Alternate names: None
Commodity: Peat

LOCATION-OWNERSHIP

Quadrangle...... Anchorage.
Mining district.. Do.
Coalfield....... Unnamed.
Elevation....... 30 m.
Topography...... Flat-lying.
Domain......... Municipality.

Owner.......... Unknown.
Operator....... Do.

General location.. Located in Anchorage.
Meridian........ Seward.
Tract........... Sec. 01, T 12 N, R 04 W.
Latitude......... 61°09'55" N.
Longitude....... 149°54'00" W.

GEOLOGY

Formation name..... Unknown.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coil seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............ Do.
Thickness....... Do.
Depth........... Do.

Formation age...... Quaternary.
Rock relationships.. Not reported.
Coking Ability...... No.
Heating value...... Not reported.
Composition, %:
Ash............... Do.
Sulfur........... Do.
Moisture......... Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Unknown.
Product type......... Peat.
Distance shipped..... Various.
Destination.......... Anchorage.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

USGS quadrangle maps... Anchorage, A-8.
USBM sequence number... 0020850116.
CAPPS DEPOSIT

Map No: 152
Alternate names: Beluga Coal Company

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle........ Tyonek.
Mining district.. Redoubt.
Coalfield.......... Beluga-Yentna.
Elevation......... 617 m.
Topography....... Gentle slope.
Domain............ Native.

General location.. 40 km northwest of Beluga.
Meridian......... Seward.
Tract............... Sec. 22, T 14 N, R 14 W.
Latitude.......... 61°17'50" N.
Longitude........ 151°46'00" W.

Owner............... Placer U.S. Inc. (Placer Amex, Inc.).
Operator.......... Beluga Coal Company.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of North-Northeast.
caseam.
Coal seam average
dimensions, m.
   Length........... 4,800.
   Width............ 6,400.
   Thickness....... 10.
   Depth............ 35.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
                    Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,327-12,151 Btu/lb (335).
Composition, %:
   Ash................ 7.81-10.23.
   Sulfur............ 0.14-0.21.
   Moisture.......... 23.65.
   Volatile matter.. 35.20-51.35.
   Fixed carbon..... 33.34-48.65.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1900.
Discovery method... Unknown.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production.. Do.

Distance to water supply.. Onsite.
Road requirement........ 51.5 km.
Distance to power supply.. Onsite.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Tyonek, B-5.

USBM sequence number... 0020840038.
CENTER RIDGE DEPOSIT

Map No: 153
Alternate names: Beluga Coal Company
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Tyonek.
Mining district... Redoubt.
Coalfield....... Beluga-Yentna.
Elevation....... 472 m.
Topography....... Gently rolling.
Domain........... State.

General location.. 32 km west of Beluga.
Meridian........ Seward.
Tract............ Sec. 33, T 13 N, R 13 W.
Latitude......... 61°10'35" N.
Longitude......... 151°36'55" W.

Owner............ Placer U.S. Inc. (Placer Amex, Inc.).
Operator.......... Beluga Coal Company.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Coal seam average dimensions, m.
Length........... 2,900.
Width............ 4,300.
Thickness....... 12.
Depth........... 75.

Formation age...... Tertiary.
Rock relationships. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,327-12,151 Btu/lb (335).
Composition, %:
Ash.................. 17.81-10.23.
Sulfur............. 0.14-0.21.
Moisture.......... 23.65.
Volatile matter... 35.20-51.35.
Fixed carbon...... 33.34-48.65.

DEVELOPMENT

Current status...... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1900.
Discovery method... Unknown.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type......... Do.
Distance shipped...... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Tyonek, A-5.

USBM sequence number... 0020840034.

296
LONE RIDGE DEPOSIT

Map No: 153
Alternate names: Beluga Coal Company
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle..... Tyonek.
Mining district.. Redoubt.
Coalfield....... Beluga-Yentna.
Elevation....... 381 m.
Topography...... Low-lying.
Domain......... State.

Owner.......... Placer U.S. Inc. (Placer Amex, Inc.).
Operator....... Beluga Coal Company.

General location.. 26 km west of Beluga.

Meridian........ Seward.
Tract........... Sec. 24, T 13 N, R 13 W.
Latitude......... 61°11'52" N.
Longitude....... 151°31'40" W.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of North-Northeast.
cal seam.
Coal seam average
dimensions, m.
Length............ 4,800.
Width............. 4,800.
Thickness......... 8.
Depth............ 35.

Formation age..... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,327-12,151 Btu/lb (335).
Composition, %:
Ash.................. 7.81-10.23.
Sulfur............... 0.14-0.21.
Moisture........... 23.65.
Volatile matter... 35.20-51.35.
Fixed carbon...... 33.34-48.65.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. 1900.
Discovery method... Unknown.

Initial production.. Not reported.
Last production.... Do.
Past production..... Do.
Annual production... Do.

Process rate............ Not reported.
Product type.......... Do.
Distance shipped..... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

Lone Ridge Deposit: Resources; 100 million short tons (80).
REFERENCES


USGS quadrangle maps... Tyonek, A-5.

USBM sequence number... 0020840039.
BELUGA RIVER

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location: 13 km northwest of Beluga.

Meridian: Seward.

Tract: Sec. 04, T 13 N, R 11 W.

Latitude: 61°14'30" N.

Longitude: 151°14'45" W.

Owner: Ed Coffey, and J. V. Brown.

Operator: Unknown.

GEOLOGY

Formation name: Tyonek.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Strike and dip of coal seam: N 17-22° W, 55° NE.

Coal seam average dimensions, m:

Length: 15.2.

Width: Not reported.

Thickness: 2.0.

Depth: Outcrop.

Formation age: Tertiary.

Rock relationships: Sandstone lies over ore. Shale lies under ore.

Coking ability: Not reported.

Heating value: 7,160-9,470 Btu/lb (175).

Composition, %:

Ash: 16.8-22.2.

Sulfur: 0.2.

Moisture: 24.4.


Fixed carbon: 28.7-38.0.

DEVELOPMENT

Current status: Exploration prospect.

Type of operation: Prospect.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: 0.1 km.

Road requirement: Do.

Distance to power supply: 13 km.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

35, 52, 72, 175, 185, 202, 224, 233, 265, 272-273, 320, 417, 452, 457. USGS quadrangle maps... Tyonek, A-4.

USBM sequence number... 0020840024.
COFFEE CREEK

Map No: 154
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Tyonek.
Mining district.. Redoubt.
Coalfield....... Beluga-Yentna.
Elevation....... 107 m.
Topography...... Low-lying.
Domain........... State.
Owner............ Howard J., & Lois M. Grey.
Operator........ Unknown.

General location.. 9.5 km northwest of Beluga.
Meridian......... Seward.
Tract............... Sec. 12, T 13 N, R 11 W.
Latitude......... 61°13'58" N.
Longitude....... 151°09'58" W.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of North-Northeast.
coal seam.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness........ Do.
Depth.......... Do.

Formation age.... Tertiary.
Rock relationships. Sandstone lies over ore.
Conglomerate lies under ore.
Coking ability..... Not reported.
Heating value...... Do.
Composition, %:
Ash.............. Do.
Sulfur.......... Do.
Moisture........ Do.
Volatile matter... Do.
Fixed carbon..... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement........ 9.5 km.
Distance to power supply.. Do.
Process rate........... Not reported.
Product type........... Do.
Distance shipped........ Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

8, 273.

USGS quadrangle maps... Tyonek, A-4.
USBM sequence number... 0020840036.
THREEMILE CREEK DEPOSIT

Map No: 155
Alternate names: Beluga Coal Company
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Tyonek.
Mining district.. Redoubt.
Coalfield....... Beluga-Yentna.
Elevation........ 91.4 m.
Topography..... Low-lying.
Domain.......... State.

General location.. 10 km west of Beluga.
Meridian........ Seward.
Tract............ Sec. 27, T 13 N, R 11 W.
Latitude.......... 61°11'15" N.
Longitude....... 151°12'42" W.

Owner............ Placer U.S. Inc. (Placer Amex, Inc.).
Operator......... Beluga Coal Company.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coat controls...... Bedding.
Strike and dip of North-Northeast.
canal seam.
Coal seam average
dimensions, m.
Length........... 4,600.
Width............ 3,200.
Thickness....... 2.
Depth............ 46.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value........ 8,327-12,151 Btu/lb (335).
Composition, %:
Ash................ 7.81-10.23.
Sulfur............ 0.14-0.21.
Moisture......... 23.65.
Volatile matter... 35.20-51.35.
Fixed carbon...... 33.34-48.65.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. 1900.
Discovery method... Unknown.
Initial production.. Not reported.
Last production..... Do.
Past production.... Do.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement........ 16.1 km.
Distance to power supply.. Onsite.
Process rate............ Not reported.
Product type........... Do.
Distance shipped........ Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Tyonek, A-4.

USBM sequence number... 0020840037.
BELUGA 1

Map No: 155
Alternate names: Diamond Alaska Coal Co., B-H-W leases, Chuitna River Coal Field
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Tyonek.
Mining district.. Redoubt.
Coalfield....... Beluga-Yentna.
Elevation....... 229 m.
Topography...... Gentle slope.
Domain.......... State.

General location.. 16 km northwest of Beluga.
Meridian........ Seward.
Tract............ Sec. 24, T 13 N, R 12 W.
Latitude......... 61°12'00" N.
Longitude........ 151°21'20" W.

Operator......... Diamond Alaska Coal Company.

GEOLOGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of North-northeast, coal seam. 0-15° S.
Coal seam average dimensions, m.
  Length........... Not reported.
  Width............ Do.
  Thickness....... 6.9.
  Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
                    Conglomerate lies under ore.
Coking ability...... Not reported.
Heating value....... 6,290-8,890 Btu/lb (165).
Composition, %:
  Ash............... 10-31.
  Sulfur............ 0.1-0.3.
  Moisture.......... 11-29.
  Volatile matter... 28-38.
  Fixed carbon..... 26-35.

DEVELOPMENT

Current status..... Development deposit.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Distance to water supply.. Onsite.
Road requirement........ 17.7 km.
Distance to power supply.. 16 km.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........ Not reported.
Product type......... Do.
Distance shipped.... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

Reserves: Proven; 891 million short tons (157).
          Indicated; 282 million short tons.
REFERENCES


USGS quadrangle maps... Tyonek, A-4.

USBM sequence number... 0020840035.
TYONEK CREEK

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location..  4.5 km southwest of Tyonek.
Meridian.......... Seward.
Tract............ Sec. 15, T 11 N, R 11 W.
Latitude.......... 61°02’37° N.
Longitude........ 151°12’30° W.

Quadrangle..... Tyonek.
Mining district.. Redoubt.
Coalfield....... Beluga-Yentna.
Elevation....... 46 m.
Topography...... Low-lying.
Domain.......... Indian reservation.

Owner............ Unknown.
Operator.......... Do.

FORMATION

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............... Do.
Thickness......... 6.1.
Depth............... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,350-12,160 Btu/lb (146).
Composition, %:
Ash.................. 3.7-5.2.
Sulfur.......... 0.4-0.6.
Moisture.......... 27.6.
Volatile matter... 31.5-45.8.
Fixed carbon...... 37.2-54.2.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........ Not reported.
Product type........ Do.
Distance shipped.... Do.
Destination......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

72, 100, 145-146, 149, 174, 235,
250-251, 273, 417, 421.

USGS quadrangle maps... Tyonek, A-4.

305
FALLS CREEK

Map No: 157
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 3 km south of Clam Gulch.

Quadrangle: Kenai.
Mining district: Homer.
Coalfield: Kenai.
Elevation: 50 m.
Topography: Bluff.
Domain: State.

Owner: Unknown.
Operator: Do.

GEOLOGY

Formation name: Sterling.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Flat-lying.
Coal seam average dimensions, m:
  Length: Not reported.
  Width: Do.
  Thickness: Do.
  Depth: Outcrop.

Formation age: Tertiary.
Rock relationships: Sandstone lies over ore.
Siltstone lies under ore.
Coking ability: Not reported.
Heating value: Do.
Composition, %:
  Ash: Do.
  Sulfur: Do.
  Moisture: Do.
  Volatile matter: Do.
  Fixed carbon: Do.

DEVELOPMENT

Current status: Exploration prospect.
Type of operation: Prospect.
Year of discovery: Unknown.
Discovery method: Do.

Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 41, 185, 265, 273, 320, 417.


USBM sequence number: 0020940022.

306
NINILCHIK

Map No: 158
Alternate names: Deep Creek

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle..... Kenai.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation....... 10 m.
Topography...... Bluff.
Domain.......... State.

General location.. 1.5 km south of Ninilchik.

Owner.......... Unknown.
Operator........ Do.

GEOLOGY

Formation name..... Sterling.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Flat-lying.
Coal seam average dimensions, m.
Length.......... Not reported.
Width............. Do.
Thickness....... 1.8.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Siltstone lies under ore.
Coking ability...... Not reported.
Heating value....... 7,437-11,800 Btu/lb (333).
Composition, %:
Sulfur............... 0.25-0.39.
Moisture.......... 23.72.
Volatile matter... 36.01-57.13.
Fixed carbon...... 27.02-42.87.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.

Year of discovery.. Unknown.
Discovery method... Do.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. 0.1 km.
Road requirement....... Existing.
Distance to power supply.. 1.5 km.

Process rate........... Not reported.
Product type............ Do.
Distance shipped....... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

3, 41, 185, 265, 273, 320, 333,
417, 463.

USGS quadrangle maps... Kenai, A-5.

USBM sequence number... 0020940019.

307
TROUBLESOME CREEK

Map No: 159
Alternate names: Troublesome Gulch
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Seldovia.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation....... 15 m.
Topography....... Low-lying.
Domain.......... State.
Operator....... Do.
General location.. 21 km northwest of Homer.

LOCATION-OWNERSHIP

Meridian......... Seward.
Tract........... Sec. 21, T 05 S, R 15 W.
Latitude......... 59°43'35" N.
Longitude....... 151°50'45" W.

GEOLOGY

Formation name..... Sterling.
Shape of coal seam. Tabular.
Coal controls....... Bedding.
Strike and dip of coal seam. N 50° E, 10-15° N.
Coal seam average dimensions, m.
Length............ Not reported.
Width............... Do.
Thickness......... 0.57.
Depth............. Outcrop.
Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability....... Not reported.
Heating value....... 8,050-12,380 Btu/lb (146).
Composition, %:
Ash.................. 15.0-18.7.
Sulfur.............. 0.4-0.6.
Moisture.......... 20.0.
Volatile matter... 35.9-55.2.
Fixed carbon....... 29.1-44.8.

DEVELOPMENT

Current status...... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Distance to water supply.. 0.1 km.
Road requirement....... 3 km.
Distance to power supply.. Do.
Initial production.. Not reported.
Last production...... Do.
Past production..... Do.
Annual production... Do.
Process rate............. Not reported.
Product type............ Do.
Distance shipped...... Do.
Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

41, 145-146, 149, 174, 185, 250-251,
265, 273, 320, 406, 417.
USGS quadrangle maps... Seldovia, C-5.
USBM sequence number... 0021040061.

308
DIAMOND CREEK

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle ....... Seldovia.
Mining district.. Homer.
Coalfield ....... Kenai.
Elevation ....... 31 m.
Topography ....... Gentle slope.
Domain ....... State.

General location.. 11 km northwest of Homer.
Meridian ....... Seward.
Tract ....... Sec. 08, T 06 S, R 14 W.
Latitude ....... 59°40'18" N.
Longitude ....... 151°41'03" W.

GEOLOGY

Formation name ....... Beluga.
Shape of coal seam.......... Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam... Not reported.
Coal seam average dimensions, m.
Length .......... Do.
Width .......... Do.
Thickness ....... 1.1.
Depth .......... Outcrop.

Formation age ....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability ...... Not reported.
Heating value ...... 7,810-11,780 Btu/lb (146).
Composition, %:
Ash .......... 5.6-7.8.
Sulfur .......... 0.2-0.3.
Volatile matter ... 33.5-50.5.
Fixed carbon ...... 32.8-49.5.

DEVELOPMENT

Current status ....... Raw prospect.
Type of operation ....... Prospect.

Year of discovery .. Unknown.
Discovery method .. Do.
Initial production ... Not reported.
Last production...... Do.
Past production...... Do.
Annual production... Do.

Distance to water supply .. 0.1 km.
Road requirement .......... Do.
Distance to power supply .. 1 km.
Process rate .......... Not reported.
Product type .......... Do.
Distance shipped .......... Do.
Destination .......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 149, 174, 185, 250-251, 265, 273, 320, 417.
USGS quadrangle maps ... Seldovia, C-5.
USBM sequence number ... 0021040063.
BLUFF POINT

Map No: 160
Alternate names: McNally & Maitland,
Valley Coal Corporation

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Seldovia.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation....... 198 m.
Topography....... Gentle slope.
Domain......... State.

General location.. 10 km northwest of Homer.
Meridian....... Seward.
Tract........... Sec. 09, T 06 S, R 14 W.
Latitude.......... 59°40'01" N.
Longitude....... 151°40'09" W.

Owner......... Unknown.
Operator......... Do.

GEOLOGY

Formation name..... Beluga.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average
dimensions, m.
Length........... Do.
Width........... Do.
Thickness......... 1.7.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,350-12,100 Btu/lb (146).
Composition, %:
Ash................ 8.4-13.0.
Sulfur............. 0.3-0.5.
Moisture........... 21.0-22.4.
Volatile matter... 36.0-55.1.
Fixed carbon...... 31.1-44.9.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1888.
Discovery method... Unknown.

Initial production.. 1915.
Last production..... 1923.
Past production..... Not reported.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped....... 10 km.
Destination............... Homer.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

41, 43, 55-58, 73, 145-146, 149, 174, 185, 236-237, 250-251, 265, 273, 290, 320, 400, 405-406, 417.

USGS quadrangle maps... Seldovia, C-5.

USBM sequence number... 0021040064.
MINE CAMP

Map No: 161
Alternate names: West Homer, Bluff Point, Coal Point

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Seldovia.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation....... 31 m.
Topography....... Steep bluff.
Domain......... State.

General location.. 1 km east of Homer.
Meridian........... Seward.
Tract........... Sec. 24, T 06 S, R 24 W.
Latitude........... 59°38'40" N.
Longitude........... 151°35'15" W.

Owner......... Cook Inlet Coal Fields Company.
Operator........ Do.

GEOLOGY

Formation name..... Beluga.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 58° W, 15-20° N. coal seam.
Coal seam average dimensions, m.
Length........... Not reported.
Width........... Do.
Thickness....... 0.8.
Depth........... Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 0.63-0.81 (Fuel ratio) (406).
Composition, %:
Ash.................. 5.13-7.60.
Sulfur............ 0.32-0.38.
Moisture......... 19.22-20.87.
Volatile matter... 40.71-43.95.
Fixed carbon ..... 5.13-8.05.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1888.
Discovery method... Unknown.

Initial production.. 1899.
Last production.... 1946.
Past production..... 27,557 mt.
Annual production... Not reported.

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. Onsite.

Process rate........ Unknown.
Product type......... Coal.
Distance shipped........ 1 km.
Destination........... Homer.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

1, 38, 41, 185, 250-251, 265, 273, 320, 405-406, 417.

USGS quadrangle maps... Seldovia, C-5.
USBM sequence number... 0021040048.
HOMER

Map No: 161
Alternate names: Homer Coal Corporation
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle........ Seldovia.
Mining district........ Homer.
Coalfield........ Kenai.
Elevation.................. 60 m.
Topography........ Steep bluff.
Domain........ State.

General location........ 4 km west of Homer Spit.
Meridian........ Seward.
Tract........ Sec. 24, T 06 S, R 14 W.
Latitude........ 59°38'40" N.
Longitude........ 151°34'20" W.

Owner........ Homer Coal Corporation.
Operator........ Do.

GEOLOGY

Formation name........ Beluga.
Shape of coal seam........ Tabular.
Coal controls........ Bedding.
Strike and dip of coal seam........ N 70° E, 7° N.
Coal seam average dimensions, m.
Length........ Not reported.
Width........ Do.
Thickness........ 1.8.
Depth........ Outcrop.

Formation age........ Tertiary.
Rock relationships........ Sandstone lies over ore.
Shale lies under ore.
Coking ability........ Not reported.
Heating value........ 8,028-11,747 Btu/lb (335).
Composition, %:
Ash........ 8.65-11.23.
Sulfur........ 0.23-0.34.
Moisture........ 23.01.
Volatile matter........ 35.63-52.13.
Fixed carbon........ 32.71-47.87.

DEVELOPMENT

Current status........ Past producer.
Type of operation........ Underground.

Year of discovery........ 1888.
Discovery method........ Unknown.

Initial production........ 1946.
Last production........ 1951.
Past production........ Not reported.
Annual production........ Do.

Process rate........ Unknown.
Product type........ Coal.
Distance shipped........ 1 km.
Destination........ Homer.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Seldovia, C-5.

USBM sequence number... 0021040049.
BRADLEY

Map No: 162
Alternate names: Bradley Seam, Fritz Creek
Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Seldovia.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation....... 248 m.
Topography....... Flat-lying.
Domain.......... State.
Owner............ Alaska Coal Company.
Operator........ Do.

General location.. 7 km northeast of Homer.
Meridian........ Seward.
Tract............ Sec. 12, T 06 S, R 13 W.
Latitude......... 59°43'35" N.
Longitude....... 151°15'50" W.

GEOLOGY

Formation name..... Beluga.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length............ Do.
Width............. Do.
Thickness......... 2.1.
Depth............ Outcrop.
Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... Do.
Composition, %:
Ash.................. Do.
Sulfur.............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1888.
Discovery method... Unknown.
Initial production... 1895.
Last production..... Do.
Past production..... 16.5 mt.
Annual production... Do.

Distance to water supply.. Onsite.
Road requirement............. Existing.
Distance to power supply.. Onsite.
Process rate............. Unknown.
Product type............. Coal.
Distance shipped........... 7 km.
Destination............... Homer.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

41, 185, 250-251, 265, 273, 320,
405-406, 417.
USGS quadrangle maps... Seldovia, C-4.
USBM sequence number... 0021040046.

315
CURTIS SEAM

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 18 km northeast of Homer.

Meridian: Seward.

Tract: Sec. 25, T 05 S, R 12 W.

Latitude: 59°46'45" N.

Longitude: 151°09'45" W.

GEOLOGY

Formation name: Sterling.

Formation age: Tertiary.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Coking ability: Not reported.

Heating value: 0.75 (Fuel ratio) (406).

Composition, %:

Ash: 9.10.

Sulfur: 0.34.

Moisture: 21.54.

Volatile matter: 39.10.


DEVELOPMENT

Current status: Past producer.

Type of operation: Underground.

Distance to water supply: Onsite.

Road requirement: Existing.

Distance to power supply: Onsite.

Year of discovery: 1888.

Discovery method: Unknown.

Initial production: 1890.

Last production: 1897.

Process rate: Unknown.

Product type: Coal.

Distance shipped: 18 km.

Destination: Homer.

Past production: 716 mt.

Annual production: Not reported.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

41, 185, 211, 250-251, 265, 273, 320, 400, 405-406, 416-417, 421.

USGS quadrangle maps: Seldovia, C-4.

USBM sequence number: 0021040045.
FRITZ CREEK

Map No: 163
Alternate names: Swede & Hoe

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Seldovia.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation....... 212 m.
Topography...... Gentle slope.
Domain.......... State.

General location.. 13 km northeast of Homer.
Meridian........ Seward.
Tract............ Sec. 20, T 05 S, R 12 W.
Latitude......... 59°43′35″ N.
Longitude....... 151°21′30″ W.

Owner.......... Alaska Coal Company.
Operator........ Do.

GEOLOGY

Formation name..... Beluga.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m. Length........... Do.
Width............ Do.
Thickness......... Do.
Depth............ Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value...... Do.
Composition, %:
Ash................. Do.
Sulfur............. Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1888.
Discovery method... Unknown.

Initial production.. 1888.
Last production..... 1906.
Past production.... Not reported.
Annual production... Do.

Development

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Process rate........ Unknown.
Product type........ Coal.
Distance shipped..... 13 km.
Destination......... Homer.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

41, 43, 185, 265, 273, 320,
405-406, 417.

USGS quadrangle maps... Seldovia, C-4.

USBM sequence number... 0021040047.

317
FALLS CREEK

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 26 km northeast of Homer.

Meridian: Seward.

Tract: Sec. 03, T 05 S, R 11 W.

Latitude: 59°46'34" N.

Longitude: 151°07'20" W.

FALLS CREEK

Map No: 164
Alternate names: None

Quadrangle: Seldovia.

Mining district: Homer.

Coal Creek: Kenai.

Elevation: 122 m.

Topography: Steep slope.

Domain: State.

Owner: Unknown.

Operator: Do.

Formation name: Sterling.

Shape of coal seam: Tabular.

Coal controls: Bedding.

Strike and dip of coal seam: Not reported.

Coal seam average dimensions, m:

- Length: Do.
- Width: Do.
- Thickness: 0.7.
- Depth: Outcrop.

Composition, %:

- Ash: Do.
- Sulfur: Do.
- Moisture: Do.
- Volatile matter: Do.
- Fixed carbon: Do.

Distance to water supply: 0.1 km.

Road requirement: 2 km.

Distance to power supply: Do.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

41, 185, 265, 273, 320, 405-406, 417.

USGS quadrangle maps... Seldovia, D-3.

USBM sequence number... 0021040058.
EASTLAND CANYON

Map No: 164
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle....... Seldovia.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation....... 114 m.
Topography....... Steep slope.
Domain.......... State.

General location.. 23 km northeast of Homer.

Owner........... North Pacific Mining and Transportation Company.
Operator........ Do.

GEOLOGY

Formation name..... Sterling.
Shape of coal seam. Tabular.
Coal controls....... Bedding.
Strike and dip of coal seam. N 70° W, 4° N.
Coal seam average
dimensions, m.
Length........... Not reported.
Width........... Do.
Thickness....... 0.4.
Depth........... Outcrop.

Formation age....... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability....... Not reported.
Heating value....... 0.82 (Fuel ratio) (406).

Coal seam average Composition, %:

Dimensions, m.
Length........... Not reported.
Width........... Do.
Thickness....... 0.4.
Depth........... Outcrop.

Ash............. 7.29.
Sulfur.......... 0.27.
Moisture........ 19.29.
Volatile matter... 40.31.
Fixed carbon...... 33.11.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.
Year of discovery.. 1888.
Discovery method... Unknown.

Initial production.. 1894.
Last production..... 1897.
Past production..... 716 mt.
Annual production... Not reported.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped....... 23 km.
Destination............... Homer.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

41, 185, 250-251, 265, 273, 320, 405-406, 417.

USGS quadrangle maps... Seldovia, D-4.
USBM sequence number... 0021040059.

319
COTTONWOOD CREEK

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location: 21 km northeast of Homer.

Meridian: Seward.
Tract: Sec. 17, T 05 S, R 11 W.
Latitude: 59°44'25" N.
Longitude: 151°11'30" W.

GEOLOGY

Formation name: Sterling.
Formation age: Tertiary.
Shape of coal seam: Tabular.
Rock relationships: Sandstone lies over ore.
Coal controls: Bedding.
Shale lies under ore.
Strike and dip of coal seam: Not reported.
Coking ability: Not reported.
Heating value: Do.
Composition, %:
Ash: Do.
Sulfur: Do.
Moisture: Do.
Volatile matter: Do.
Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: Unknown.
Discovery method: Do.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.
Distance to water supply: 0.1 km.
Road requirement: 3 km.
Distance to power supply: 2.5 km.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

41, 185, 265, 273, 320, 405-406, 417.
USGS quadrangle maps... Seldovia, C-4.
USBM sequence number: 0021040060.

320
AURORA

Map No: 165
Alternate names: None

Commodity: Subbituminous C

LOCATION-OWNERSHIP

Quadrangle...... Seldovia.
Mining district.. Homer.
Coalfield....... Unnamed.
Elevation....... 91 m.
Topography...... Gentle slope.
Domain.......... State.

General location.. 24 km east of Homer.
Meridian......... Seward.
Tract........... Sec. 35, T 05 S, R 11 W.
Latitude......... 59°42'25" N.
Longitude....... 151°05'25" W.

Owner.......... Unknown.
Operator....... Do.

GEOLGY

Formation name..... Sterling.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of Not reported.
coal seam.
Coal seam average
dimensions, m.
Length........... Do.
Width............ Do.
Thickness......... Do.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value...... Do.
Composition, %:
Ash................ Do.
Sulfur............... Do.
Moisture........... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.

Distance to water supply.. 0.1 km.
Road requirement....... Do.
Distance to power supply.. Onsite.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate.......... Not reported.
Product type.......... Do.
Distance shipped...... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 265, 273, 320, 417.

USGS quadrangle maps... Seldovia, D-3.

USBM sequence number... 0021040062.
COAL COVE

Map No: 166
Alternate names: Port Graham, Wharf Mine, Coal Bay

Commodity: Subbituminous C

LOCATION-OWNERSHIP

General location.. 11 km southwest of Seldovia.

Quadrangle....... Seldovia.
Mining district.. Homer.
Coalfield....... Kenai.
Elevation........ 8 m.
Topography...... Gentle slope.
Domain.......... Native.

Owner.......... Russian-American Company.
Operator....... Do.

LOCATION-OWNERSHIP

Meridian........ Seward.
Tract.............. Sec. 13, T 09 S, R 16 W.
Latitude........... 59°23'45" N.
Longitude......... 151°53'45" W.

GEOLGY

Formation name..... Tyonek.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of   N 22° W, 11°.
coal seam.
Coal seam average
 dimensions, m.
     Length.......... 518.2.
     Width.......... Not reported.
     Thickness..... 3.2.
     Depth.......... Outcrop.

GEOLOGY

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 8,560-12,350 Btu (146).
Composition,m %:
     Ash............ 8.8-15.8.
     Sulfur......... 0.5-1.1.
     Moisture....... 20.0-20.4.
     Volatile matter... 32.7-54.4.
     Fixed carbon.... 32.5-45.6.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Underground.

Year of discovery.. 1786.
Discovery method... Exploration.

Initial production.. 1855.
Last production.... 1913.
Past production.... 9,370 mt.
Annual production... Not reported.

DEVELOPMENT

Distance to water supply.. Onsite.
Road requirement......... Existing.
Distance to power supply.. Onsite.

Process rate.......... 35 mt/d.
Product type......... Coal.
Distance shipped....... Variable.
Destination............. Local and steamboats.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES

7, 35, 38, 44, 52-54, 56, 62, 64, 68,
79, 136, 145-146, 149, 170, 174, 180,
185, 224, 231, 235, 237, 241, 250-251,
253, 265, 273, 288, 320, 352, 354-355,
361, 366, 404-406, 417, 424, 429, 433,
465-466.

USGS quadrangle maps... Seldovia, B-6.

USBM sequence number... 0021040032.
AMALIK BAY

Commodity: Anthracite & bituminous

LOCATION-OWNERSHIP

General location.. 22 km east of Katmai Village site.

Meridian........ Seward.

Tract............ Sec. 32, T 24 S, R 32 W.

Latitude......... 58°03'15" N.

Longitude........ 154°32'22" W.

Quadrangle...... Mt. Katmai.

Mining district.. Bristol Bay.

Coalfield....... Unnamed.

Elevation....... 46 m.

Topography...... Steep slope.

Domain.......... National Park.

Owner............ Unknown.

Operator........ Do.

GEOLOGY

Formation name..... Unnamed.

Shape of coal seam. Tabular.

Coal controls...... Bedding.

Strike and dip of coal seam. Not reported.

Coal seam average dimensions, m.

Length......... Do.

Width.......... Do.

Thickness... 0.46.

Depth......... Outcrop.

Formation age...... Tertiary.

Rock relationships.. Sandstone lies over ore.

Shale lies under ore.

Coking ability...... Not reported.

Heating value...... 1.45 (Fuel ratio) (406).

Composition, %:

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ash</td>
<td>8.90</td>
</tr>
<tr>
<td>Sulfur</td>
<td>0.75</td>
</tr>
<tr>
<td>Moisture</td>
<td>1.62</td>
</tr>
<tr>
<td>Volatile matter</td>
<td>36.56</td>
</tr>
<tr>
<td>Fixed carbon</td>
<td>52.92</td>
</tr>
</tbody>
</table>

DEVELOPMENT

Current status..... Raw prospect.

Type of operation.. Prospect.

Year of discovery.. Unknown.

Discovery method... Do.

Initial production.. Not reported.

Last production.... Do.

Past production.... Do.

Annual production... Do.

Distance to water supply.. Less than 3 km.

Road requirement........ Less than 10 km.

Distance to power supply.. More than 100 km.

Process rate........... Not reported.

Product type.......... Do.

Distance shipped....... Do.

Destination............... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

185, 273, 320, 406, 417, 430, 432.

USGS quadrangle maps... Mt Katmai, A-2.

USBM sequence number... 0021260005.
AYAKULIK RIVER

Map No: 168
Alternate names: Red River

Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle: Karluk.
Mining district: Kodiak.
Coalfield: Unnamed.
Elevation: 9 m.
Topography: Low-lying.
Domain: Native.

General location: 0.5 km east of Ayakulik.
Meridian: Seward.
Tract: Sec. 28, T 34 S, R 33 W.
Latitude: 57°11'50" N.
Longitude: 154°31'30" W.

Owner: Unknown.
Operator: Do.

GEOLGY

Formation name: Unnamed.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: Not reported.
Coal seam average dimensions, m:
Length: Do.
Width: Do.
Thickness: Do.
Depth: Outcrop.

Formation age: Tertiary.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Coking ability: Noncoherent.
Heating value: 0.66 (Fuel ratio) (406).

Composition, %:
Ash: 2.41.
Sulfur: 0.17.
Moisture: 12.31.
Volatile matter: 51.48.
Fixed carbon: 33.80.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.

Year of discovery: Unknown.
Discovery method: Do.

Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

56, 60, 94, 149, 185, 228, 246, 265, 273, 320, 381, 390-391, 406, 417, 428-430.

USGS quadrangle maps... Karluk, A-2.
USBM sequence number... 0021300006.

325
SITKINAK ISLAND EAST

Commodity: Subbituminous

LOCATION-OWNERSHIP

General location.. Eastern end of Sitkinak Island.
Meridian....... Seward.
Tract............. Sec. 12, T 42 S, R 30 W.
Latitude........ 56°33'05" N.
Longitude....... 153°53'30" W.

GEOLOGY

Formation name..... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam.
Coal seam average dimensions, m.
  Length......... Do.
  Width......... Do.
  Thickness..... 0.3.
  Depth......... Outcrop.
Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
  Shale lies under ore.
Coking ability...... Not reported.
Heating value...... Not reported.
Composition, %:
  Ash............. Do.
  Sulfur.......... Do.
  Moisture........ Do.
  Volatile matter.. Do.
  Fixed carbon..... Do.

DEVELOPMENT

Current status..... Exploration prospect.
Type of operation.. Prospect.
Year of discovery.. Unknown.
Discovery method... Do.
Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Distance to water supply.. Less than 3 km.
Road requirement........ Less than 10 km.
Distance to power supply.. More than 100 km.
Process rate........... Not reported.
Product type.......... Do.
Distance shipped....... Do.
Destination........... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

149, 185, 208-209, 265, 273, 320,
  360, 406, 417.

USGS quadrangle maps... Kaguyak, C-6.

USBM sequence number... 0021360001.

326
LOCATION-OWNERSHIP

General location.. On south side of Sitkinak Island.
Meridian....... Seward.
Tract.......... Sec. 27, T 42 S, R 32 W.
Latitude........ 56°30'00" N.
Longitude....... 154°15'00" W.

GEOLOGY

Formation name...... Unnamed.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of coal seam. Not reported.
Coal seam average dimensions, m.
Length........... Do.
Width............. Do.
Thickness........ Do.
Depth............ Outcrop.

GEOLOGY

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value...... Do.
Composition, %:
Ash................ Do.
Sulfur............. Do.
Moisture.......... Do.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface.
Year of discovery.. Unknown.
Discovery method... Do.

DEVELOPMENT

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Initial production.. Not reported.
Last production..... Do.
Past production..... Do.
Annual production... Do.

Process rate........... Unknown.
Product type.......... Coal.
Distance shipped...... 1 km.
Destination.......... Ships.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

149, 185, 208-209, 246, 265, 273, 320, 417.
USGS quadrangle maps... Trinity Islands, C-1.
USBM sequence number... 0021350002.

327
HOOK BAY MINE

Map No: 171
Alternate names: None

Commodity: High volatile A bituminous

LOCATION-OWNERSHIP

General location: 25 km northeast of Chignik.
Quadrangle: Chignik.
Mining district: Alaska Peninsula.
Coalfield: Chignik.
Elevation: 183 m.
Topography: Steep slope.
Domain: Native.
Owner: Alaska Peninsula Mining & Trading Company.
Operator: Do.

GEOLOGY

Formation name: Chignik.
Shape of coal seam: Tabular.
Coal controls: Bedding.
Strike and dip of coal seam: N 11° E, 34° E.
Coal seam average dimensions, m.
Length: Not reported.
Width: Do.
Thickness: 2.
Depth: Outcrop.

Formation age: Cretaceous.
Rock relationships: Sandstone lies over ore.
Shale lies under ore.
Coking ability: Not reported.
Heating value: 10,110-14,530 Btu (146).
Composition, %:
Ash: 25.3-26.6.
Sulfur: 2.3-3.2.
Moisture: 5.1.
Fixed carbon: 42.4-60.9.

DEVELOPMENT

Current status: Raw prospect.
Type of operation: Prospect.
Year of discovery: 1908.
Discovery method: Prospecting.
Initial production: Not reported.
Last production: Do.
Past production: Do.
Annual production: Do.

Distance to water supply: Less than 3 km.
Road requirement: Less than 15 km.
Distance to power supply: Less than 50 km.
Process rate: Not reported.
Product type: Do.
Distance shipped: Do.
Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 155, 174, 185, 217, 224, 265, 273, 320, 401, 406, 417.
USGS quadrangle maps... Chignik, C-1.
USBM sequence number... 0021330011.
THOMPSON VALLEY 2

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

General location: 21 km northeast of Chignik.

Meridian: Seward.

Tract: Sec. 09, T 43 S, R 58 W.

Latitude: 56°28'46" N.

Longitude: 158°26'29" W.

GEOLOGY

Formation name: Chignik.

Formation age: Cretaceous.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Coking ability: Not reported.

Heating value: Do.

Composition, %:

- Ash: Do.
- Sulfur: Do.
- Moisture: Do.
- Volatile matter: Do.
- Fixed carbon: Do.

DEVELOPMENT

Current status: Raw prospect.

Type of operation: Prospect.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: Less than 3 km.

Road requirement: Less than 10 km.

Distance to power supply: Less than 50 km.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 155, 174, 185, 217, 257, 265, 273, 320, 401, 417.

USGS quadrangle maps: Chignik, B-2.

USBM sequence number: 0021330012.
THOMPSON VALLEY 1

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

General location: 19 km northwest of Chignik.

Meridian: Seward.

Tract: Sec. 08, T 43 S, R 58 W.

Latitude: 56°28'26" N.

Longitude: 158°27'19" W.

GEOLOGY

Formation name: Chignik.

Formation age: Cretaceous.

Shape of coal seam: Tabular.

Rock relationships: Sandstone lies over ore.

Coal controls: Bedding.

Shale lies under ore.

Strike and dip of coal seam: N 61° E, 21° NW.

Coking ability: Not reported.

Coal seam average composition, %:

- Sulfur: 0.7-0.9.
- Moisture: 10.8.
- Volatile matter: 30.3-40.8.
- Fixed carbon: 44.0-59.2.

DEVELOPMENT

Current status: Past producer.

Type of operation: Underground.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: 1912.

Last production: 1922.

Past production: Not reported.

Annual production: Do.

Process rate: Unknown.

Product type: Coal.

Distance shipped: 19 km.

Destination: Chignik.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 155, 174, 185, 217, 224, 265, 269, 273, 320, 401, 406, 417.

USGS quadrangle maps... Chignik, B-2.

USBM sequence number... 0021330013.
THOMPSON VALLEY 3

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

General location.. 20 km northwest of Chignik.

Meridian.......... Seward.
Tract............ Sec. 09, T 43 S, R 58 W.
Latitude........... 56°28'05" N.
Longitude......... 158°26'23" W.

GEOLOGY

Formation name..... Chignik.
Formation age....... Cretaceous.
Shape of coal seam. Tabular.
Rock relationships.. Sandstone lies over ore.

Coal controls..... Bedding.
Shale lies under ore.

Strike and dip of coal seam.
Coking ability...... Not reported.
Heating value...... Do.

Coal seam average dimensions, m.
Composition, %:

Length.......... Do.
Ash.............. Do.

Width.......... Do.
Sulfur.......... Do.

Thickness....... Do.
Moisture......... Do.

Depth.......... Outcrop.
Volatile matter... Do.
Fixed carbon...... Do.

DEVELOPMENT

Current status..... Raw prospect.
Type of operation.. Prospect.
Distance to water supply.. Less than 3 km.

Year of discovery.. Unknown.
Road requirement......... Less than 10 km.
Discovery method... Do.
Distance to power supply.. Less than 50 km.

Initial production.. Not reported.
Process rate.......... Not reported.
Last production..... Do.
Product type.......... Do.
Past production..... Do.
Distance shipped...... Do.
Annual production... Do.
Destination.......... Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 155, 174, 185, 217, 265, 269, 273, 320, 401, 417.
USGS quadrangle maps... Chignik, B-2.
USGS sequence number... 0021330014.
WHALERS CREEK MINE

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

General location: 15 km west of Chignik.

Meridian: Copper River.

Tract: Sec. 09, T 45 S, R 60 W.

Latitude: 56°18'04" N.

Longitude: 158°38'44" W.

GEOLOGY

Formation name: Chignik.

Formation age: Cretaceous.

Rock relationships: Sandstone lies over ore.

Shale lies under ore.

Coking ability: Not reported.

Heating value: 11,240-14,100 Btu (146).

Composition, %:

- Ash: 15.3-16.1.
- Sulfur: 1.8-2.2.
- Moisture: 5.0.
- Volatile matter: 34.3-43.0.
- Fixed carbon: 45.4-57.0.

DEVELOPMENT

Current status: Exploration prospect.

Type of operation: Underground.

Year of discovery: Unknown.

Discovery method: Do.

Initial production: Not reported.

Last production: Do.

Past production: Do.

Annual production: Do.

Distance to water supply: Less than 3 km.

Road requirement: Less than 10 km.

Distance to power supply: Less than 20 km.

Process rate: Not reported.

Product type: Do.

Distance shipped: Do.

Destination: Do.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.

REFERENCES

145-146, 155, 174, 185, 217, 224, 265, 273, 320, 401, 406, 417.

USGS quadrangle maps: Chignik, B-2.

USBM sequence number: 0021330015.
CHIGNIK BAY COAL

Commodity: High volatile C bituminous

LOCATION-OWNERSHIP

General location.. 20 km west of Chignik.

Quadrangle........ Chignik.
Mining district..... Alaska Peninsula.
Coalfield......... Chignik.
Elevation......... 15 m.
Topography...... Steep slope.
Domain........... Native.
Owner............ Alaska Packers Association.
Operator.......... Do.

GEOLOGY

Formation name..... Chignik.
Shape of coal seam. Tabular.
Coal controls..... Bedding.
strike and dip of N 2° E, 24° E.
coal seam.
Coal seam average dimensions, m.
Length............ Not reported.
Width............. 805.
Thickness......... 1.6.
Depth........... Outcrop.

Formation age...... Cretaceous.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 9,850-13,840 Btu/lb (146).
Composition, %:
Ash.................. 21.8-23.4.
Sulfur.............. 1.3-1.8.
Moisture.......... 7.1.
Volatile matter... 31.5-44.2.
Fixed carbon...... 39.3-55.8.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. 1885.
Discovery method... Unknown.
Initial production.. 1893.
Last production.... 1911.
Past production.... Not reported.
Annual production... Do.

Distance to water supply... Onsite.
Road requirement......... Existing.
Distance to power supply... Onsite.
Process rate............ 600 mt/d.
Product type........... Coal.
Distance shipped....... 20 km.
Destination.............. Chignik.

PUBLISHED RESERVES-RESOURCES

Chignik field: Reserves; Indicated; 100 million short tons (79).
Hypothetical; 300 million short tons.
REFERENCES


USGS quadrangle maps... Chignik, B-3.

USBM sequence number... 0021330001.
HERENDEEN BAY

Map No: 175
Alternate names: Mine Creek, Lower Tunnel, Philbick & Foster, Johnson Tunnel, Mine Harbor
Commodity: Subbituminous B

LOCATION-OWNERSHIP

Quadrangle........ Port Moller.
Mining district... Alaska Peninsula.
Coalfield........ Herendeen Bay.
Elevation....... 61 m.
Topography...... Gentle slope.
Domain........... State.

General location.. 1 km east of Herendeen Bay.
Meridian......... Seward.
Tract.............. Sec. 14, T 51 S, R 74 W.
Latitude........... 55°46'00" N.
Longitude......... 160°40'00" W.

Owner............ Alaska Mining and Development Company.
Operator.......... Do.

GEOLOGY

Formation name..... Chignik.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 01° W, 30° N.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............. Do.
Thickness......... 0.7.
Depth............. Outcrop.

Formation age....... Cretaceous.
Rock relationships.. Shale lies over ore.
Sandstone lies under ore.
Coking ability...... Not reported.
Heating value....... 6,180-13,920 Btu/lb (146).
Composition, %:
Ash................ 5.9-49.4.
Sulfur............... 0.3-0.6.
Moisture.......... 1.8-8.0.
Volatile matter... 26.1-40.4.
Fixed carbon....... 23.6-60.5.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.

Year of discovery.. 1880.
Discovery method... Unknown.

Initial production.. 1880.
Last production.... 1904.
Past production.... 904 mt.
Annual production... Not reported.

Distance to water supply.. Onsite.
Road requirement........ Existing.
Distance to power supply.. Onsite.

Process rate........... Unknown.
Product type........... Coal.
Distance shipped....... 1 km.
Destination............... Herendeen Bay.

PUBLISHED RESERVES-RESOURCES

Herendeen Bay field: Reserves; Indicated; 10-100 million short tons (79).
Hypothetical; 300 million short tons.
REFERENCES

15, 21, 27, 35, 44, 52, 63-64, 78-79,
136, 141-142, 145-146, 149, 174, 185,
224, 235, 265-266, 269, 273, 306, 320,
354-355, 361, 373, 405, 417, 421, 425,
428, 432, 454.

USGS quadrangle maps... Port Moller, D-3.

USBM sequence number... 0021380004.
JOHNSON TUNNEL

Commodity: High volatile B bituminous

LOCATION-OWNERSHIP

Quadrangle...... Port Moller. General location.. 3 km east of Herenden Bay.
Coalfield....... Herenden Bay. Tract............. Sec. 12, T 51 S, R 74 W.
Elevation.......... 351 m. Latitude........... 55°46'22" N.
Topography....... Gentle slope. Longitude........ 160°38'04" W.
Domain............ State.

Owner............. C.A. Johnson/Alaska Transportation and Coal Company.
Operator........... Do.

GEOLOGY

Formation name..... Chignik. Formation age....... Cretaceous.
Shape of coal seam. Tabular. Rock relationships.. Shale lies over ore.
Coal controls...... Bedding. Sandstone lies under ore.
Strike and dip of N 11° W, 34° NE. Coking ability....... Not reported.
coal seam. Heating value...... 11,790-13,880 Btu/lb (146).
Coal seam average Composition, %:
dimensions, m. Ash.............. 7.1-7.7.
Length........... Not reported. Sulfur............ 0.4-0.5.
Width............... 53. Moisture........... 8.0.
Thickness.......... 2.1. Volatile matter... 33.5-39.5.
Depth............ Outcrop. Fixed carbon...... 51.4-60.5.

DEVELOPMENT

Current status..... Past producer. Distance to water supply.. Onsite.
Type of operation.. Underground. Road requirement....... Existing.
Year of discovery.. 1880. Distance to power supply.. Onsite.
Discovery method... Unknown.

Initial production.. 1896. Process rate............ Unknown.
Last production.... 1902. Product type........... Coal.
Past production..... Not reported. Distance shipped........ 3 km.
Annual production... Do. Destination............ Herenden Bay.

PUBLISHED RESERVES-RESOURCES

Herenden Bay field: Reserves; Indicated; 10-100 million short tons (79).
Hypothetical; 300 million short tons.
REFERENCES


USGS quadrangle maps... Port Moller, D-2.

USBM sequence number... 0021380017.
COAL HARBOR

Map No: 176
Alternate names: Alaska Coal Company, John Dix, Henry & Alexander Tibbey
Commodity: Lignite

LOCATION-OWNERSHIP

Quadrangle........ Port Moller.
Mining district... Alaska Peninsula.
Coalfield........... Unga Island.
Elevation.......... 30 m.
Topography........ Gentle slope.
Domain............ Native.
Owner............ Tide Water Consolidated Company.
Operator......... Do.

General location. 1 km northwest of Coal Harbor, Unga Island.
Meridian........ Seward.
Tract............ Sec. 08, T 56 S, R 74 W.
Latitu Def ....... 55°20'54" N.
Longitude........ 160°40'00" W.

GEOLOGY

Formation name..... Bear Lake.
Shape of coal seam. Tabular.
Coal controls...... Bedding.
Strike and dip of N 12° W, 8° W.
coal seam.
Coal seam average
dimensions, m.
Length........... Not reported.
Width............ Do.
Thickness........ 1.2.
Depth............ Outcrop.

Formation age...... Tertiary.
Rock relationships.. Sandstone lies over ore.
Shale lies under ore.
Coking ability...... Not reported.
Heating value....... 5,810-11,740 Btu/lb (146).
Composition, %:
Ash.................. 26.2-34.1.
Sulfur............. 0.5-1.1.
Moisture.......... 23.3.
Volatile matter... 25.4-50.3.
Fixed carbon...... 25.1-49.7.

DEVELOPMENT

Current status..... Past producer.
Type of operation.. Surface-underground.
Year of discovery.. 1880.
Discovery method... Unknown.
Initial production.. 1882.
Last production..... 1902.
Past production..... 987 mt.
Annual production... Not reported.

Process rate........ Unknown.
Product type........ Coal.
Distance shipped.... 1 km.
Destination.......... Coal Harbor.

PUBLISHED RESERVES-RESOURCES

No published reserve-resource information.
REFERENCES


USGS quadrangle maps... Port Moller, B-3.

USBM sequence number... 0021380005.
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11. _____. Mining Poised for Takeoff Next Year. V. 9, No. 52, 1985, pp. 14-16.


16. _____. Proposed Coal Mining Point Barrow Area, Northern Alaska. MR-3-1, 1944, 53 pp.


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140. ___. Samples From Healy Coal Field Analyzed. AK Div. Geol. and Geophys. Surv. AK Mines and Geol., v. 25, No. 1, 1976, pp. 1-4.


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371


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