

M.I.R.L. Report No. 51

ALASKA COAL - A BIBLIOGRAPHY

by
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FOREWARD

Coal has been mined and used in Alaska for more than a century, and still is the principal source of energy for power generation for the interior Alaska region. Recent events that have caused increases in the cost of energy have spurred new world-wide interest in greater use of lower cost coal in place of oil. In the past few years, there has been increased interest in Alaska coal by private investors, evidenced by stepped-up exploration activity. Interest from the Pacific Rim nations is shown by the signing of contracts between Korean buyers and the Usibelli Coal Mine; and the entrance of Korean capital into exploring the Bering River Field. Japan is continuing pilot plant testing of Beluga coal.

All of this indicates a rapidly growing interest in Alaska's coal and it seemed appropriate to have a comprehensive bibliography of Alaskan coals available to help the emerging coal mining industry in Alaska. Since a literature search is the first task of every company that wants to enter the Alaskan coal mining industry, the time seemed appropriate to compile a comprehensive bibliography of Alaskan coal to eliminate duplication of effort and guarantee the industry the most comprehensive source of information.

Julia Triplehorn is uniquely qualified for this task. She is a reference librarian by profession, with background in both geology and library science, and long experience in bibliographic searches on numerous other subjects. She has done an admirable job in searching all available sources, and has added an inclusive index that took time, dedication, and patience--a job well done.

The School of Mineral Industry, Mineral Industry Research Laboratory, is pleased to make this bibliography available to industry and all those involved in research working toward the development of Alaskan resources.

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INTRODUCTION

The recent interest in Alaskan coal resources has created a need for comprehensive information on coal locations, mines, and companies with their present and past development. This publication is designed to meet such a need by providing a bibliography with a subject index. All aspects of Alaskan coal resources up to May 1981 are included, but there is only limited coverage of political, legal, and legislative matters.

There are two major sections: the Bibliography and the Index.

Bibliography

This is arranged alphabetically by author or originating agency with a separate number assigned to each entry. Single-author entries appear before those coauthored by the same author. Agency entries are made under the name of the agency at the time of publication; users should be aware that many name changes occurred at the time of statehood.

The majority of the documents were obtained at the Rasmuson Library - University of Alaska, Fairbanks. Sources of documents obtained from other libraries or archives are indicated within parentheses following such entries. The Wickersham entries are indicated separately because they can be obtained from a special file in the Rasmuson Library using the Wickersham number. Entries which were not located anywhere are indicated with an asterisk (*).

All entries have enough detailed bibliographic information to be obtained from Rasmuson Library or on Interlibrary Loan from the specific library or archives cited in parentheses.

INDEX

Most of the documents for the bibliographic entries were obtained and scanned by one of the indexers. They selected terms from a

thesaurus which was based on the index from the Bibliography of Coal - Geological Survey of Wyoming. Documents which could not be obtained (marked by an *) were indexed from the title words.

The index is arranged alphabetically, interfiling coal locations, mines, companies, and other subjects. An example of an index is as follows:

Mining: 963(40)

This refers to bibliographic item 963 and indicates that it was published in the decade of the 40's. The 19th century articles are written out (e.g., 1880 or 1890) to avoid confusion.

Only a few cross references are given. To interrelate the many variations of individual mines and companies would require another research project which time does not permit. It is assumed that the user will not only consult specific locations, mine names, and company titles, but will also refer to broader categories such as coal fields.

To aid the user, an outline of coal fields and an index map are included as Appendix I and Appendix II. These indicate the names of regions as used in this bibliography. Note the following abbreviations for regions: AR - Arctic, I - Interior, NW - Northwest, SC - Southcentral, SW - Southwest.

Maps that stand alone and are not part of larger publications are identified as maps under specific locations. For additional maps, check entries under Stratigraphy and Geology. These may include maps as part of larger works; but such maps are not indexed separately.

With a project of this nature, there are certain to be errors and omissions. Please call these to the attention of the author, so they can be corrected or added to future revisions.

Sources of Information

The following libraries and archives were utilized in the preparation of this bibliography: Rasmuson Library - University of Alaska,

Fairbanks; Alaska State Library; Alaska Historical Library; U.S. Bureau of Mines - Juneau; Federal Record Center - Seattle; National Archives - Washington; and U.S. Geological Survey - Anchorage.

A number of bibliographies (published and unpublished) were utilized. Most bibliographies accompanying the individual entries were also scanned for additional references. Some of the major sources were Bibliography and Index of North American Geology, Bibliography and Index of Geology, Lyle - Coal Bibliography for Alaska, Barnes - Coal Resources of Alaska, U.S. Geological Survey indexes (including the numerous Cobb Sources), U.S. Bureau of Mines indexes, Alaska Division of Geological and Geophysical Survey publications, Arctic Environmental and Data Center bibliographies, and computer literature searches of the National Technical Information Service, Georef, Geoarchiv, Engineering Index, and Department of Energy.

Acknowledgments

Appreciation and thanks are extended to the following:

Geological Survey of Wyoming - for their bibliography and index that were the model for this one.

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Appendix I

COAL DISTRICTS, FIELDS AND OCCURRENCES LISTED BY ALASKA REGION

ARCTIC REGION (AR)Northern Alaska Coal Fields and Districts

Lisburne - Pt. Hope Field
 Corwin Bluff - Utukok Rivers Region
 Cape Beaufort District
 Liz-A-Syncline
 Deadfall Syncline
 Corwin Bluff District
 Offshore Chukchi Sea between Cape Lisburne and Franklin Pt.
 Kukpowruk River District
 Kokolik River District
 Utukok River District
 Central Arctic Slope Region
 Kuk-Kugrua Rivers District
 Kuk River
 Kugrua River
 Meade River District
 Ikpikpuk River District
 Colville River District
 East of Itkillik River

NORTHWEST REGION (NW)Occurrences:

Unalakleet
 Beach
 Unalakleet River
 Seward Peninsula
 Sinak River
 Koyuk River
 Kugruk River (15 mi, west of Candle)
 Chicago Creek
 Kobuk River
 Trinity Creek
 Kallarichak River
 Hunt River
 Lower Ambler River
 Kogoluktuk River
 Lockwood Hills

INTERIOR REGION (I)

Nenana Field:

Healy Creek
 Rex Creek
 Tatlanika Creek
 Wood River
 California Creek
 Lignite Creek
 Savage River

Jarvis Creek Field

Eagle-Circle District

Occurrences:

Mission Creek Basin
 Seventymile River
 Washington Creek
 Bonanza Creek
 Nation River
 Cal Creek
 Chicken

Yukon River-Rampart District

Occurrences:

Rampart
 Hess Creek (Drew Mine)
 Dall River
 Coal Creek

Scattered Occurrences:

Galena
 Nulato (Pickart, Bush, and Blatchford mines)
 Kaltag (Williams and Blackburn mines)
 Anvik River (100 miles above its mouth)
 Poorman
 Tramway Bar

SOUTHCENTRAL REGION (SC)

Cook Inlet-Susitna Fields

Yentna and Beluga Fields

Canyon Creek
 Drill Creek
 Capps Glacier
 Chuitna River
 Beluga River

Kenai Field

Homer District

SOUTHCENTRAL REGION (CONTINUED)

Offshore Cook Inlet
 Matanuska Field
 Little Susitna District
 Wishbone Hill District
 Chickaloon District
 Anthracite Ridge District
 Broad Pass Field
 Bering River Field
 Occurrences:
 Robinson Mountain

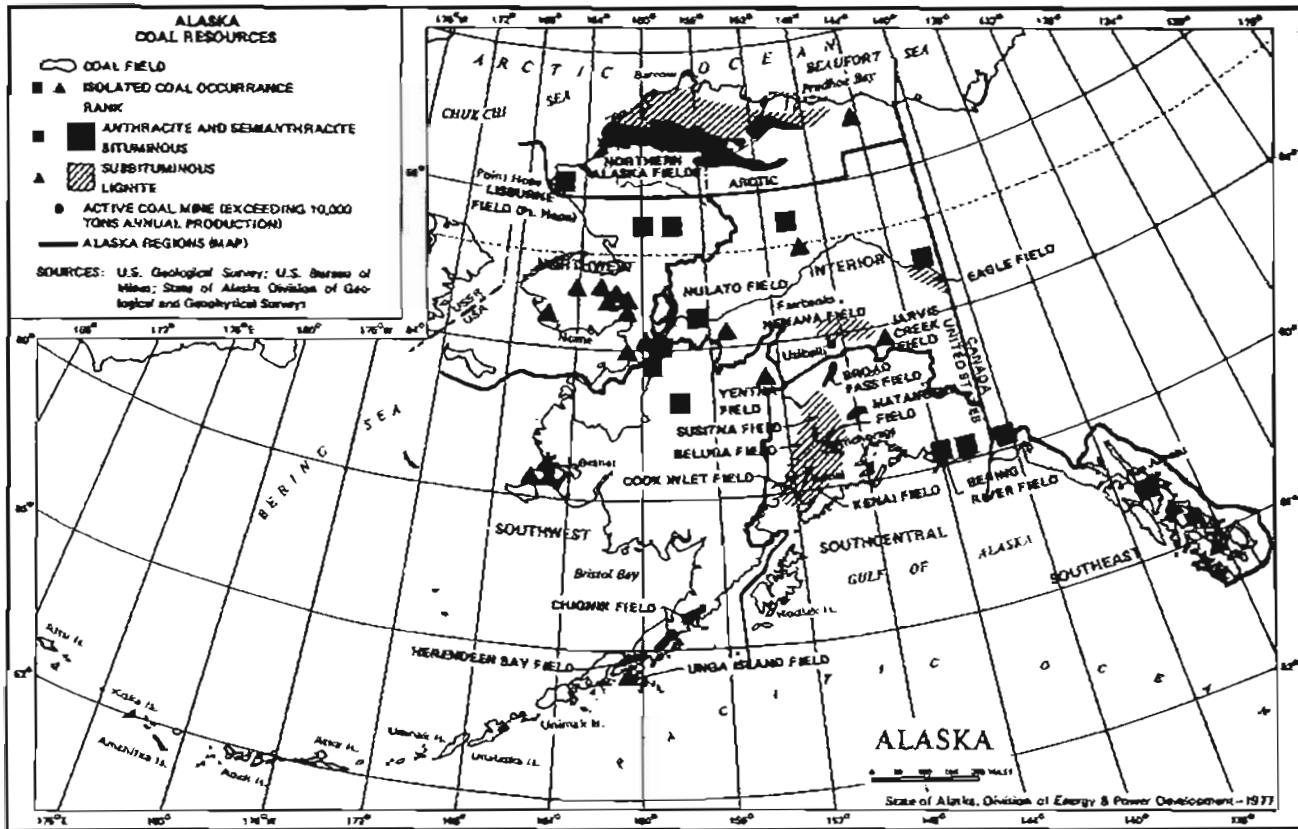
SOUTHWEST REGION (SW)

Unga Island Field
 Herendeen Bay Field
 Chignik Field
 Occurrences:
 Little Tonsona
 Etolin Stratis
 Lower Kuskokwim River Basin
 Cheeneetruk River
 Lower Yukon River Basin
 Blackburn
 Anvik
 Flat

SOUTHEAST REGION (SE)

Occurrences:
 Between Icy and Yakutat Bays, mainland
 Kootznahoo Inlet, Admiralty Island
 Murder Cove, Admiralty Island
 Kasaan Bay, Prince of Wales Island
 Hamilton Bay, Kupreanof Island
 Port Camden, Kuiu Island

The preceding three pages were reprinted from the following:
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Appendix II Map of Major Coal Resource Areas in Alaska

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Mining: 356(20), 415(20), 471(40), 771(10), 985(IP)
Production: 62(20), 955(10), 985(IP), 1067(20), 1314(30)
Reserves: 1303(60)
Structure: 415(20)BAXTER SPUR (SC)
Correspondence: 57(20)
General: 140(20-30)BEAR CANYON (SC)
General: 279(50)

BEAR CREEK (SC)
 Analysis: 1244(10)
 General: 280(50)

BEAVER
 General: 316(70)

BEAVER CREEK (I)
 Geology: 391(10), 398(10)

BELUGA COAL COMPANY (SC)
 General: 518(70), 720(70), 721(IP)
 Mining: 887(70), 925(80)
 Strip Mining: 733(70)

BELUGA COAL FIELD (SC)
 Analysis
 1890 - 1909: 775(00)
 1910 - 1949: None
 1950 - 1969: 269(60), 271(60), 665(50), 769(50), 959(60),
 1305(60), 1306(60)
 1970: 12(70), 294(70), 509(70), 524(70), 587(70), 644(70),
 659(70), 810(70), 812(70), 888(70), 890(70), 962(70),
 1058(70), 1059(70)
 1980: 507(80), 930(80), 1235(80)
 IP: 926(IP)
 Character: 887(70), 926(IP)
 Development Potential: 194(70), 291(70), 292(80), 293(70),
 308(IP), 455(70), 508(70), 509(70), 517(IP), 521(70),
 545(70), 582(80), 665(50), 720(70), 721(70), 733(70),
 863(70), 887(70), 888(70), 917(80), 950(70), 1011(80),
 1058(70), 1059(70), 1123(70), 1206(70), 1320(70)
 Drilling: 421(80), 812(70), 1207(60), 1208(60), 1305(60), 1306(60)
 Drying: 917(80), 929(RIP)
 Economics: 291(70), 292(80), 308(IP), 508(70), 887(70), 902(IP),
 960(IP)
 Environmental Impact: 194(70), 733(70), 960(IP), 996(70), 1235(80),
 1320(70)
 Exploration: 665(50), 888(70)
 Gasification Potential: 811(70), 812(70)
 General: 1(00), 33(60), 34(60), 295(70), 394(40), 405(30), 469(70),
 641(50), 804(70), 808(70), 877(20), 984(70), 985(IP),
 1063(50), 1318(70), 1225(10), 1324(60)
 Geologic Age Determination: 856(70)

BELUGA COAL FIELD contd.

Geology: 13(70), 194(70), 294(70), 327(80), 484(10), 509(70),
 524(70), 529(1890), 587(70), 644(70), 769(50), 775(00),
 910(80), 930(80), 996(70), 997(IP), 998(70), 1208(60),
 1305(60)
 History: 665(50)
 Hydrology: 421(80), 860(IP), 1002(80)
 Land Status: 504(70), 509(70)
 Marketing Potential: 252(60), 292(80), 308(IP), 507(80), 509(70),
 521(70), 582(80), 721(70), 806(80), 851(IP), 863(70),
 902(IP), 960(IP), 975(00), 1104(IP), 1058(70), 1059(70)
 Methane in Coal: 292(80)
 Methanol Production Potential: 960(IP)
 Military Interest: 665(70), 668(50), 975(70)
 Mining: 463(70), 509(70), 518(70), 644(70), 713(60), 733(70),
 887(70), 1011(80), 1063(50)
 Mining Costs: 509(70), 1235(80)
 Overview: 808(70), 984(70)
 Palynology: 807(IP)
 Permits: 641(50)
 Petrography: 962(70)
 Petrology: 930(80)
 Power Generation Potential: 815(70), 863(60), 887(70), 960(IP),
 1011(80), 1104(IP)
 Production: 507(80), 509(70), 524(70), 525(70), 649(60), 713(60),
 733(70), 959(60), 1011(80), 1235(80)
 Rank: 194(70), 269(60), 810(70), 812(70)
 Reclamation: 463(70), 733(70)
 Reserve: 194(70), 291(70), 293(70), 308(IP), 410(70), 455(70),
 508(70), 509(70), 517(IP), 545(70), 649(60), 721(70),
 810(70), 812(70), 987(IP), 1059(70), 1235(80), 1305(60),
 1306(60), 1320(70)
 Slurry Potential: 194(70)
 Solvent Refined Potential: 1058(70), 1059(70)
 Stratigraphy: 271(60), 421(80), 812(70), 910(80), 1305(60),
 Structure: 271(60), 327(80), 524(70), 659(70), 910(80), 959(60),
 996(70), 998(70)
 Synthetic Fuels Conversion Potential: 509(70), 960(IP)
 Transportation: 980(70), 1011(80), 1058(70), 1059(70), 1104(IP),
 1235(80), 1305(60)
 Transportation - Marine: 291(70), 292(80), 509(70), 720(70),
 721(70), 806(80)
 Washability: 926(IP)

BELUGA LAKE (SC)

Analysis: 904(80)
 General: 271(60)
 Geology: 484(10), 769(50)

BELUGA LAKE contd.

Rank: 904(60)
 Reserves: 904(60)
 Structure: 769(50)
 Washability: 904(60)

BENNETT COAL LEASING TRACT (SC)

Development: 948(20)
 Mining: 948(20)

BERING LAKE (SC)

Analysis: 470(40), 744(10)
 General: 9(50), 280(50), 302(40), 349(00), 984(70)
 Geology: 471(40), 475(10), 479(10), 714(10)
 Mining: 985(IP)
 Production: 985(IP)

BERING RIVER ALASKA COAL COMPANY (SC)

Coal Survey Plat: 1168(00)
 General: 422(10), 530(10)
 Mining: 658(20), 1046(10)

BERING RIVER COAL COMPANY (SC)

Analysis: 563(20), 571(10)
 Blacksmithing Coal: 563(20)
 Coking Test: 563(20)
 General: 832(20)
 Geology: 563(20)
 History: 563(20)
 Leases: 514(20), 547(20)
 Maps (ext.): 563(20)
 Marketing Potential: 563(20)
 Mining: 181(10), 206(50), 309(20), 334(20), 514(20), 658(20),
 951(20)
 Mining Methods: 563(20)
 Production: 563(20)
 Stratigraphy: 563(20)
 Transportation: 563(20)
 Washery: 563(20)

BERING RIVER COAL FIELD (SC)

Analysis
 1890 - 1909: 339(00), 778(00), 780(00), 783(00), 788(00)
 1910 - 1929: 191(10), 125(00), 204(20), 329(10), 354(10),
 441(10), 481(10), 483(10), 553(20), 572(10),
 714(20), 952(10), 1128(30), 1169(20), 1244(10),
 1327(10)

BERING RIVER COAL FIELD - Analysis contd.

1930 - 1949: 470(40), 585(40), 1170(40)
 1950 - 1969: 269(60), 271(60), 588(60), 920(60), 923(60)
 1970: 12(70), 294(70), 459(70), 813(70)
 1980: 327(80), 1235(80)

Character: 339(00), 553(20), 918(70), 1058(70)
 Claims: 331(10), 374(10), 375(10), 687(10), 714(10), 1088(10),
 1241(10)

Coal Monopoly: 422(10)

Coking: 333(10), 553(20), 561(-), 783(00), 837(60), 909(20),
 986(70), 1307(60), 1322(50)

Development: 341(20), 514(20), 546(20), 549(20), 655(10), 662(00),
 957(20), 1034(30), 1089(10), 1170(40)

Development Potential: 293(70), 454(70), 578(10), 634(00), 719(10),
 831(20), 952(10), 979(70), 1058(70)

Distribution: 671(70)

Economic Potential: 535(70), 979(70)

Exploration: 168(50), 670(10), 788(00), 876(20), 957(20),
 1090(10), 1322(50)

General: 4(20), 163(50), 165(80), 190(10), 201(10), 205(50),
 207(10), 262(10), 277(60), 295(70), 302(40), 310(20),
 312(20), 335(20), 344(20), 348(00), 349(00), 359(00),
 367(60), 420(10), 469(70), 476(10), 522(-), 575(10),
 587(70), 600(00), 663(00), 765(10), 771(10), 776(10),
 777(20), 804(70), 832(20), 845(20), 858(80), 875(10),
 881(30), 918(70), 955(10), 956(10), 985(IP), 1022(20),
 1024(30), 1025(30), 1029(30), 1030(30), 1071(20),
 1090(10), 1113(10), 1318(70)

Geology: 269(60), 280(50), 294(70), 327(80), 337(10), 345(00),
 354(10), 358(10), 458(70), 459(70), 471(40), 473(-),
 475(10), 478(10), 479(10), 481(10), 483(10), 512(10),
 553(20), 561(-), 576(10), 585(40), 702(70), 704(40),
 714(10), 778(00), 986(70), 1018(30), 1148(10), 1150(50),
 1170(40), 1203(70), 1206(10), 1326(10)

History: 457(70), 553(20), 711(10), 858(80)

Leases: 228(10-20), 514(20), 561(-), 662(00), 1241(10)

Maps: 555(10), 557(-), 629(10-50)

Marketing: 169(20), 576(10), 923(60), 1028(30)

Marketing Potential: 19(50), 172(50), 173(50), 293(70), 546(20),
 669(50), 923(60), 1323(60)

Mining: 260(40), 327(80), 330(10), 332(10), 553(20), 658(20),
 714(10), 739(10), 746(60), 788(00), 801(60), 1026(30),
 1027(30), 1028(30), 1046(10), 1064(50)

Mining Costs: 457(70), 1235(80)

Opening of Field: 333(10), 1047(10)

Overview: 202(40-50), 779(10), 808(70), 1087(10)

BERING RIVER COAL FIELD contd.

Permits: 228(10-20), 472(20)
 Petrography: 1265(60)
 Preparation: 588(60), 1265(60)
 Production: 228(10-20), 458(70), 655(10), 687(10), 713(60),
 746(60), 770(10), 1028(30), 1067(20), 1068(20),
 1093(10), 1235(80)
 Rank: 269(60), 341(20), 441(10), 549(20), 813(70), 1128(10),
 1169(20), 1226(10), 1301(70), 1307(60)
 Reserves: 11(70), 280(50), 293(70), 345(00), 410(70), 441(10),
 535(70), 634(00), 655(10), 670(10), 671(70), 687(10),
 715(10), 813(70), 957(10), 986(70), 987(IP), 1032(30),
 1150(50), 1169(20), 1226(10), 1235(80), 1269(60)
 Steam Test: 140(20-30), 227(-), 658(20)
 Stratigraphy: 255(00), 271(60), 389(10), 780(00)
 Transportation: 188(10), 367(60), 561(-), 576(10), 707(10),
 909(20), 1150(50), 1235(80), 1260(10)
 Value: 389(10), 986(70)
 Washability: 588(60), 923(60)

BERING RIVER COAL MINE (SC)

Closure: 1081(20)
 General: 514(20)
 Leases: 514(20)
 Mining: 658(20), 1081(20)
 Production: 1081(20)

BERING SEA (SW)

Rank: 782(00)
 Reserves and Resources: 782(00)

BETTLES (I)

General: 985(IP)

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General: 11(70), 12(70), 194(70), 269(60), 294(70), 332(10),
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 AR: 424(70), 793(70), 1268(70)
 I: 580(30), 1268(70)
 NW: 492(80)
 SC: 512(10), 644(70), 736(60), 791(00), 904(60), 1268(70)
 SW: 467(70), 1015(70)
 Multiple Areas: 585(40), 747(70), 858(80), 1022(20), 1235(80),
 1298(80)
 Analysis: 1102(70), 1244(10)
 Quadrangle: 432(70), 433(70), 434(70), 435(70), 436(70), 437(70),
 438(70), 439(70)

- BIDARKI CREEK (SC)
Analysis: 704(40), 1125(40)
Mining: 283(50)
Stratigraphy: 704(40), 1125(40)
- BIG BEND (AR)
General: 517(60)
- BIG BLACK RIVER (I)
General: 338(00), 1054(1890)
- BIG DELTA COAL FIELD
Analysis: 1118(40)
Exploration: 1118(40)
- BIG RIVER (SW)
General: 1037(10)
Mining: 1037(10)
- BILLY BEDS
Analysis: 1170(40)
Character: 425(80)
Geology: 585(40)
washability: 925(80)
- BILLY CREEK (SC)
Analysis: 870(00)
General: 796(10)
Geology: 796(10), 870(00)
Stratigraphy: 796(10)
Structure: 796(10), 869(00), 870(00)
- BLACK BEAR COAL CLAIM
General: 681(10)
- BLACK DIAMOND COAL COMPANY
Coal Reports: 92(40)
Freight Rates: 63(20)
Mining: 1034(30)
- BLACKBURN MINE (I)
Analysis: 582(80)
Geology: 582(80)
History: 638(70)
Mining: 638(70)
Rank: 813(70)

BLACKSMITHING

General: 563(20), 818(00), 824(30)

BLAINE COAL CLAIM

General: 911(10)

BLATCHFORD MINE (I)

Analysis: 417(60), 446(00), 447(00), 582(80), 1041(10)

General: 338(00), 584(70), 1307(60)

Geology: 417(60), 446(00), 447(00), 582(80)

History: 638(70)

Mining: 447(00), 638(70), 859(00)

BLIND RIVER (I)

General: 584(70)

BLUE BEAR COAL CLAIM

General: 676(10)

BLUFF CREEK (I)

Analysis: 1141(30)

Stratigraphy: 826(40)

Structure: 826(40)

BLUFF POINT MINE (SC)

Analysis: 2(60), 279(50), 470(40), 1170(40)

General: 94(20), 283(50), 285(50), 310(20), 333(10), 776(10),
845(20), 1093(10)

Geology: 267(50), 471(40), 1048(10), 1086(00)

History: 858(80)

Marketing Analysis: 356(20)

Mining: 332(10), 356(20), 471(40), 777(20), 1048(10)

Permit: 186(10)

Photographs: 279(50)

Production: 267(50), 356(20), 770(10)

Stratigraphy: 267(50), 1086(00)

Structure: 267(50), 1048(10), 1086(10)

Transportation: 356(20)

BONANZA CREEK (I)

Analysis: 585(40), 786(10)

General: 269(60), 447(00), 584(70)

Geology: 446(00), 585(40), 786(10), 901(00)

Stratigraphy: 446(00)

Structure: 786(10)

BONASILA RIVER (I)
 General: 588(10)

BONNIFIELD REGION (I)
 Analysis: 1005(50)
 Geology: 390(10)
 Stratigraphy: 390(10)
 Structure: 390(10)

BOULDER CREEK (SC)
 Analysis: 571(10), 744(10), 791(00), 796(10), 870(00) 1244(10)
 General: 608(00)
 Geology: 383(70), 407(10), 870(00), 796(10), 1014(70),
 Location: 383(70)
 Project Report: 1122(80)
 Reserves: 635(70)
 Structure: 1014(70)

BOUNDARY CREEK
 Geology: 704(40)
 Mining: 843(30)
 Stratigraphy: 704(40)
 Structure: 704(40)

BRADLEY SEAM (SC)
 Analysis: 338(00)
 General: 490(1890)

BRIGHTMAN and DeGEOFF SEAM (SE)
 General: 490(1890)

BRIQUETTING
 Alaska Railroad Area: 983(40)
 Bering River Coal Fields: 473(-), 549(20)
 Interior Coal Fields: 56(20), 774(40)
 Matanuska Coal Field: 66(30), 138(30), 724(10)
 Overview: 1261(40), 1345(-)

BRISTOL BAY (SW)
 General: 338(00)
 Mining: 478(10)

BROAD PASS COAL and DEVELOPMENT COMPANY (SC)
 Analysis: 95(20)
 General: 95(20), 161(50), 309(20), 311(20)
 Mining: 334(20), 356(20)

BROAD PASS MINE (SC)

Analysis: 2(60), 12(70), 58(20), 267(50), 269(60), 327(80),
 470(80), 585(40), 813(70), 903(80), 904(60), 925(80),
 926(IP), 959(60), 962(70), 1007(30), 1170(40), 1235(80)
 Character: 925(80), 926(IP)
 Development: 583(40)
 Development Potential: 293(70)
 Drilling: 593(40)
 Environmental Impact: 1235(80)
 Exploration: 168(50), 208(40), 667(50)
 General: 227(60), 285(50), 392(30), 469(20), 514(20), 669(50)
 Geology: 267(50), 327(80), 383(70), 471(40), 585(40), 675(50),
 704(40), 925(80), 930(80), 1170(40), 1181(40)
 History: 675(50), 858(80), 925(80)
 Leases: 514(20)
 Locations: 210(-), 671(70)
 Map (ext.): 210(-), 1197(40)
 Marketing Potential: 293(70)
 Mining: 219(-), 327(80), 356(20), 383(70), 583(40), 666(50),
 925(80), 984(70), 985(IP), 1081(20), 1199(70)
 Mining Costs: 1235(80)
 Overview: 984(70)
 Petrography: 962(70)
 Petrology: 930(80)
 Production: 260(40), 267(40), 310(20), 959(60), 985(IP),
 1067(20), 1235(80)
 Rank: 269(60), 813(70), 1301(70)
 Reserves: 11(70), 269(60), 293(70), 671(70), 1181(40), 1235(80)
 Stratigraphy: 267(50), 930(80)
 Structure: 327(80), 704(40), 959(60)
 Transportation: 1235(80)
 Washability: 925(80), 926(IP)

BROOKS RANGE (AR)

Analysis: 585(40)
 Development Potential: 1205(70), 1206(70)
 Distribution: 266(70), 1040(20)
 Geology: 384(70), 567(70), 585(40), 587(70), 1040(20)
 Reserves: 384(70), 1188(70)

BROWN BEAR COAL CLAIM

General: 372(10)

BRUNO AGOSTINO MOOSE CREEK COAL COMPANY (SC)

Analysis: 131(20), 132(20), 141(20-30), 920(60)
 Map: 131(20)
 Mining: 131(20), 1068(20)
 Production: 62(20)

- BUBB CREEK (SC)
 General: 818(00), 819(1890)
- BUCKLAND BASIN (NW)
 Analysis: 493(80)
 General: 585(40)
 Geology: 493(80)
 Reserves: 492(80)
- BUFFALO COAL MINING COMPANY (SC)
 Buildings: 196(40)
 Coal Handling: 196(40)
 Equipment: 196(40)
 General: 197(50), 232(40), 624(50), 1077(40), 1078(40)
 Mining: 196(40), 1178(50)
 Transportation: 196(40)
 Ventilation: 196(40)
- BUFFALO CREEK COAL MINE (SC)
 Analysis: 588(60), 1005(50), 1170(40), 1194(40), 1297(60), 1303(60)
 Closure: 52(40)
 Coal Fire: 1209(50-70)
 Development: 617(40), 620(40), 1076(40)
 Development Potential: 582(80), 1194(40)
 Drilling: 1076(40)
 Exploration: 620(40), 1194(40)
 Fusibility of Ash: 2(60)
 Gas Explosion: 364(40)
 General: 73(50), 134(40), 151(50), 284(50), 285(50), 667(50)
 Geology: 267(50), 471(40), 585(40), 704(40), 1194(40), 1255(-),
 1303(60)
 Mine Map: 363(40), 364(40), 365(40), 1184(40), 1194(40)
 Mining: 278(50), 286(50), 471(40), 588(60), 617(40), 620(40),
 985(IP)
 Preparation: 588(60), 589(50)
 Production: 260(40), 267(40), 985(IP)
 Reopen 1951: 588(60), 666(50), 980(50)
 Reserves: 987(IP), 1076(40), 1194(40), 1303(60)
 Stratigraphy: 1194(40)
 Structure: 704(40), 1194(40)
 Sulfur Content: 1297(60)
 Transportation - Railroad Spur: 52(40)
 Washability: 588(60)

BURCH CONSOLIDATED COAL COMPANY

Analysis: 1041(10)
 Coal Survey Plat: 1168(00)
 Mining: 1046(10)

BURNS COAL MINE

General: 95(20)
 Mining 357(20), 494(20), 495(20)

BUSH MINE (I)

Analysis: 417(60), 446(00), 582(80)
 General: 584(70)
 Geology: 417(60), 446(00), 582(80)

BUTLER COAL CLAIM

General: 373(10)

BUTTE COAL CLAIM

General: 752(10)

BUZZARD CREEK (I)

Geology: 1296(60)
 Structure: 1296(60)

BYPRODUCTS

General: 533(70), 602(70), 691(IP), 852(IP), 854(70), 983(40)

CACHE CREEK (SC)

Analysis: 825(10)
 General: 776(10)
 Geology: 407(10)
 History: 904(60)
 Mining: 771(10), 777(20), 825(10), 1048(10)
 Production: 825(10)
 Stratigraphy: 271(60)

CACHE CREEK MINING COMPANY

Mining: 825(10)

CALDERHEAD MINE (I)

Analysis: 470(40), 1170(40)
 General: 494(20)
 Geology: 471(40)
 Mining: 471(40), 495(20)

CALIFORNIA COAL CLAIM
General: 374(10)

CALIFORNIA CREEK (I)
Analysis: 470(40), 573(20), 959(60), 1235(80)
Environmental Impact: 1235(80)
General: 392(30)
Geology: 390(10), 398(10), 471(40), 1296(60)
Mining Costs: 1235(80)
Production: 959(60), 1235(80)
Reserves: 1235(80)
Structure: 390(10), 959(60)
Transportation: 1235(80)

CAMP DANIEL
Geology: 560(10)

CAMP COVE / STILLWATER
General: 512(10)

CAMP CREEK (SC)
Analysis: 470(40)
General: 401(10)

CANADIAN PACIFIC OIL and GAS CO.
General: 518(70)

CANDLE (NW)
Analysis: 412(20), 470(40), 493(80), 571(10), 1170(40)
General: 316(70), 422(10), 631(10), 985(IP)
Geology: 471(40), 493(80)
Mining: 412(20)

CANNEL COAL ROAD CO.
General: 143(20-30)

CANNERIES
Coal Consumption: 58(20), 76(20), 98(30), 121(30)

CANOE CREEK (SC)
General: 869(00)

CANTWELL FORMATION
General: 393(20)
Geology: 354(10), 406(20), 580(30), 1039(20), 1335(70)
History: 858(80)
Stratigraphy: 580(30)
Structure: 580(30)

CANTWELL RIVER

Analysis: 339(00), 446(00), 477(00), 478(10), 775(00)
 General: 359(00), 1250(00)
 Geology: 338(00), 344(20), 447(00), 775(00), 899(00)
 Mining: 344(20)
 Production: 344(20)
 Stratigraphy: 447(00), 1288(70)
 Structure: 344(20), 899(00)

CANYON CREEK (SC)

Analysis: 470(40), 744(10), 778(00), 782(00), 1170(40), 1084(00),
 1244(10)
 Development Potential: 634(00)
 General: 269(60), 405(30)
 Geology: 280(50), 308(IP), 404(20), 471(40), 561(-), 769(50),
 778(00), 1084(00), 1326(10)
 Mining: 290(70), 714(10)
 Reserves: 634(00)
 Stratigraphy: 271(60), 782(00)
 Structure: 271(60), 769(50), 1326(10)

CAPE BEAUFORT (AR)

Analysis: 12(70), 270(60), 388(70), 493(80), 921(80), 999(00),
 1309(60)
 Bibliography: 921(80)
 Character: 388(70), 918(70), 921(80)
 Coking: 388(70), 918(70), 1121(60), 1309(60)
 Development Potential: 898(70)
 Drilling: 388(70), 1112(60)
 Equipment: 1309(70)
 General: 312(20), 659(70), 866(00), 1307(60)
 Geology: 214(-), 270(60), 338(00), 384(70), 385(70), 386(IP),
 388(70), 419(60), 445(00), 448(00), 493(80), 710(70),
 898(70), 1054(1890)
 History: 858(80)
 Location: 319(1890), 384(70), 985(IP)
 Map: 214(-)
 Mineralogy: 921(80)
 Mining: 419(60), 448(00), 848(70)
 Permafrost: 898(70)
 Petrography: 918(70), 921(80), 1267(70)
 Rank: 441(10), 921(80), 1267(70)
 Reserves: 214(-), 384(70), 385(70), 441(10), 492(80), 719(70)
 Slurry Pipeline Potential: 898(70)
 Stratigraphy: 270(60), 385(70), 921(80), 1309(60)
 Structure: 270(60), 385(70), 419(60), 445(00), 448(00)

CAPE BEAUFORT contd.

Trace Elements: 919(70), 921(80)
Washability: 1265(60)

CAPE DANGER

Mining: 603(10)

CAPE DOUGLAS (SC)

Analysis: 1085(00)
General: 490(1890)
Geology: 1085(00)

CAPE DYER (AR)

Analysis: 12(70)
Geology: 445(00), 448(00), 1110(60)
Mining: 466(IP)
Paleobotany: 861(60)
Power Generation Potential: 466(IP)
Stratigraphy: 455(00), 448(00)
Structure: 455(00), 448(00)

CAPE LEWIS FIELD (AR)

Analysis: 445(00), 448(00)
Geology: 445(00), 448(00)
Stratigraphy: 445(00), 448(00)
Structure: 445(00), 448(00)

CAPE KOLIK (SW)

General: 1085(00)

CAPE LISBURNE (AR)

Analysis: 12(70), 270(60), 329(10), 338(00), 339(00), 345(00),
441(10), 445(00), 478(10), 600(10), 775(00), 782(00),
783(00), 999(00), 1110(00), 1226(10), 1244(10),
1250(70), 1307(60)
Character: 270(60)
Development: 1089(10)
Development Costs: 1140(70)
Development Potential: 634(00)
Economics: 535(70), 1140(70)
General: 175(30), 195(40), 324(00), 326(00), 359(00), 444(00),
469(70), 546(20), 726(1880), 727(1890), 728(1890),
804(70), 836(00), 858(80), 868(20), 1044(30), 1077(40),
1090(10), 1109(1880), 1167(40), 1169(20), 1250(70)
Geology: 329(10), 338(00), 344(20), 358(10), 445(00), 448(00),
567(70), 775(00), 999(00), 1010(60), 1018(30), 1150(50)

CAPE LISBURNE contd.

History: 600(10), 858(80)
 Locations: 1108(1880)
 Marketing: 1140(70)
 Mining: 801(60), 859(00), 866(00), 985(IP), 1046(10)
 Production: 985(IP), 1140(70)
 Rank: 270(60), 341(20), 441(10), 782(00)
 Reserves: 358(10), 441(10), 634(00), 694(00), 702(70), 782(00),
 1107(1880), 1249(70)
 Stratigraphy: 270(60), 448(00), 1307(60)
 Structure: 270(60), 448(00), 999(00), 1018(30)
 Transportation: 1140(70)

CAPE NOME (NW)
 General: 195(40)

CAPE SABINE (AR)
 Analysis: 12(70)
 Exploration: 323(00)
 Geology: 445(00), 448(00)
 Mining: 866(00)
 Structure: 448(00)

CAPE SPENCER (SC)
 General: 490(1890)

CAPE STARITCHKOFF
 General: 491(1890)

CAPE THOMPSON (AR)
 Analysis: 12(70), 15(70)
 BTU: 15(70)
 General: 866(00)
 Geology: 15(70), 445(00), 448(00), 1110(60)
 Rank: 15(70)
 Structure: 448(00)
 Stratigraphy: 448(00)
 Washability: 15(70)

CAPE VANCOUVER (SE)
 General: 813(70)

CAPPS COAL FIELD, see BELUGA COAL FIELD

CARIBOU CREEK (SC)
 Analysis: 470(40), 473(-), 476(10), 478(10), 744(10), 778(00),
 780(00), 782(00), 787(00), 879(00), 1084(00), 1170(40)

CARIBOU CREEK contd.

Development Potential: 454(70)
 General: 280(50), 384(10), 548(10), 832(20), 985(IP), 1307(60)
 Geology: 471(40), 476(10), 478(10), 561(-), 778(00), 780(00),
 870(00), 986(70), 1084(00), 1326(10)
 Mining: 311(20), 356(20)
 Reserves: 986(70)
 Stratigraphy: 778(00), 787(00)
 Structure: 778(00), 787(00)
 Washability: 920(60)

CARBON DISTRICT (SC)

Geology: 481(10)

CARBON MINE

Analysis: 1170(40)
 Development: 553(20)
 Geology: 471(40)
 Map: 557(-)
 Mining: 471(40)

CARBON MOUNTAINS

Analysis: 470(40), 572(10), 744(10), 778(80), 780(00), 782(00),
 1170(40), 1244(10)
 Claims: 555(10)
 General: 280(50), 523(10), 548(10)
 Geology: 471(40), 475(10), 778(00), 780(00)
 Reserves: 987(IP)
 Stratigraphy: 555(10), 778(00), 780(00), 782(00)
 Structure: 475(10), 778(00), 780(00)

CARBON MOUNTAIN ANTHRACITE COAL COMPANY

General: 422(10), 530(10), 714(10), 756(10), 1046(10)

CARBON MOUNTAIN COAL COMPANY

Coal Survey Plat: 1168(00)
 General: 379(10)

CARBON RIDGE (SC)

Geology: 475(10), 478(10), 484(10)
 Structure: 479(10)

CARBONIZATION

General: 189(10), 285(50), 564(20), 774(40), 884(40), 885(50),
 1005(50), 1006(40), 1345(-)

CARIBOU (1)

Analysis: 1102(70)

- CARIBOU BED (I)
General: 924(70)
- CARIBOU CREEK (SC)
General: 796(10)
Geology: 796(10)
Structure: 796(10)
- CARPENTER CREEK (SC)
Analysis: 735(20)
Geology: 735(20)
Structure: 735(20)
- CASTLE MOUNTAIN (SC)
Analysis: 924(70), 962(70), 1311(60)
Character: 924(70)
Cleaning: 1311(60)
Coking: 1311(60)
Geology: 789(10), 1311(60)
Map (Strat.): 656(20)
Mining: 1323(60), 1324(60)
Petrography: 962(70)
Reserves: 987(IP)
Structure: 789(10), 791(00)
Washability: 920(60), 924(70)
- CASTLE MOUNTAIN COAL COMPANY (SC)
Contracts: 171(50)
General: 20(50), 24(50), 768(50)
Tipple Analysis: 241(60), 243(60)
- CENTRAL ALASKA POWER POOL
General: 907(30)
- CENTRAL ALASKA REGION
Overview: 1239(70)
- CHAKACHATNA RIVER
Reserves: 509(70)
- CHANDLER CREEK (AR)
Geology: 517(60)
Structure: 517(60)
- CHANDLER FORMATION (AR)
Drilling: 966(50)

CHANDLER LAKE

General: 316(70)

CHANDLER RIVER (AR)

Analysis: 270(60)

CHAPIN BAY

Analysis: 1008(30)

CHARLEY CREEK

Analysis: 470(40), 1170(40)

Geology: 471(40)

CHARLEY RIVER (I)

Analysis: 744(10)

General: 316(70), 985(IP)

Geology: 446(00)

Reserve: 317(70)

Stratigraphy: 446(00)

Transportation: 317(70)

CHARLOTTE DISTRICT

Development: 561(-)

Development Potential: 578(10)

Geology: 561(-)

CHARLOTTE SEAM

Analysis: 778(00)

Geology: 778(00)

Stratigraphy: 778(00)

CHARLOTTE LAKE ALASKA COAL COMPANY

General: 422(10), 916(10)

Mining: 1046(10)

CHATHAM STRAIT (SE)

Analysis: 600(10)

History: 600(10), 858(80)

CHATHENDA CREEK

Geology: 399(10)

CHEENEETNUK RIVER (SW)

General: 269(60), 1015(70)

CHESHNINA RIVER (SC)

Geology: 818(00)

Structure: 818(00)

CHICAGO CREEK (NW)

Analysis: 269(60), 329(10), 412(20), 441(10), 470(40), 493(80),
585(40), 744(10), 927(RIP), 1124(40), 1126(10),
1170(40), 1244(10)

Claims: 371(10)

Development: 1028(30), 1029(30)

Development Potential: 517(RIP), 1089(10)

General: 269(60), 302(40), 333(10), 352(10), 631(10), 845(20),
877(20), 1005(50), 1090(10), 1032(30), 1036(40)

Geology: 329(10), 471(40), 493(80), 585(40), 645(10), 646(00),
839(00)

History: 638(70), 858(80), 1124(40)

Marketing: 1028(30), 1029(30)

Mining: 329(10), 332(10), 357(20), 412(20), 517(IP), 633(20),
638(70), 645(10), 646(00), 744(10), 836(00), 984(70),
985(IP), 1019(00), 1022(20), 1027(30), 1028(30),
1029(30), 1030(30), 1031(30), 1124(40)

Overview: 984(70)

Power Generation Plan: 349(00)

Production: 269(60), 633(20), 985(IP), 1028(30), 1029(30)

Rank: 269(60)

Reserves: 492(80), 517(IP), 694(00)

Structure: 645(10), 646(00)

Washability: 927(RIP)

CHICAGO GULCH

General: 407(10)

CHICKALOON COAL COMPANY (SC)

General: 1113(10)

History: 193(10)

Map: Buildings, Tracks: 128(20)

Mining: 415(20), 771(10)

Mining Potential: 186(10)

Stratigraphy: 1257(20)

CHICKALOON COAL MINE (SC)

Analysis: 2(60), 232(40), 269(60), 281(60), 331(10),
389(10), 395(20), 415(20), 470(40), 478(10), 498(50),
571(10), 572(40), 573(20), 598(60), 609(00), 610(00),
625(60), 626(60), 656(20), 744(10), 776(10), 789(10),
790(00), 791(00), 795(10), 803(10), 869(00), 870(00),
904(60), 920(60), 924(70), 947(70), 959(60), 962(70),
1169(20), 1170(40), 1244(10), 1299(60), 1300(00)

Buildings: 1081(20)

CHICKALOON COAL MINE contd.

Character: 186(10), 389(10), 395(20), 609(00), 610(00), 791(00),
 924(70), 949(20)
 Closure: 139(20), 1068(20)
 Coking: 395(20), 609(00), 625(60), 626(60), 837(60), 1307(00)
 Correspondence: 54(20), 60(20), 1013(20)
 Development: 309(20), 310(20), 335(20), 395(20), 550(10),
 610(00), 664(10), 724(10), 803(10), 834(20), 948(20),
 949(20), 956(10), 1093(10), 1096(10), 1169(20)
 Development Potential: 578(10), 831(20), 979(70)
 Drilling: 139(20), 656(20)
 Economic Potential: 979(70)
 Equipment: 664(10)
 Exploration: 179(10), 187(10), 309(20), 310(20), 1112(-)
 Freight Rates: 63(20)
 General: 13(70), 58(70), 122(20+), 334(20), 395(20), 494(20),
 514(20), 531(10), 546(20), 608(00), 776(10), 805(IP),
 819(1890), 832(20), 1024(30), 1025(30), 1026(30),
 1017(20), 1031(30), 1132(30)
 Geology: 187(10), 232(40), 269(20), 394(60), 415(20), 459(70),
 471(40), 476(10), 478(10), 481(10), 585(40), 609(00)
 610(10), 769(50), 789(10), 795(10), 870(00), 1142(30),
 1334(10)
 Hazards: 803(10)
 History: 225(20), 638(70), 858(80), 1314(30)
 Leases: 389(10), 514(20), 1071(20)
 Maps: 68(30), 781(10)
 Marketing Potential: 752(60)
 Mining: 330(10), 357(20), 395(20), 415(20), 416(20), 471(40),
 638(70), 656(20), 781(10), 795(10), 801(60), 959(60),
 984(70), 1024(30), 1027(30), 1081(20)
 Mining Costs: 187(10), 644(10), 803(10), 1096(10)
 Naval Alaskan Coal Commission: 1081(20) see also this subject
 heading
 Naval Reserve: 904(60)
 Operation Statistics: 225(20), 1013(20)
 Overview: 607(00), 779(10)
 Paleobotany: 192(60)
 Petrography: 162(70), 625(60), 626(60)
 Photography: 50(10), 656(20), 416(20), 795(10)
 Production: 62(60), 310(20), 416(20), 509(70), 803(10), 947(20),
 949(20), 959(60), 1169(20), 1307(60)
 Rank: 389(10), 959(60)
 Reopened: 1067(20)
 Reserves: 11(70), 509(70), 664(10), 724(10), 889(IP), 948(20),
 949(20), 1096(10), 1307(60)
 Steam Tests: 277(-), 356(20)

CHICKALOON COAL MINE contd.

Stratigraphy: 415(20), 656(20), 789(10), 790(00), 791(00),
795(10), 869(00), 1257(20)
Structure: 389(10), 415(20), 416(20), 609(00), 610(00), 656(20),
724(10), 769(50), 781(10), 789(10), 795(10), 869(00),
870(00), 947(20), 948(20), 1307(60)
Transportation: 69(30), 188(10), 955(10)
Utilization: 724(10)
Washability: 625(60), 924(70)
Washery: 1013(20)

CHICKALOON FORMATION (SC)

Analysis: 394(40)
General: 1018(30)
Geology: 394(40), 397(30)

CHICKEN (I)

Analysis: 470(40), 585(40), 820(30), 824(30), 827(30), 1170(40)
General: 269(60), 584(70), 985(IP)
Geology: 471(40), 820(30), 1315(50)
Mining: 469(70)
Structure: 820(30), 824(30)

CHICKEN CREEK (SC)

Analysis: 1006(40)
Carbonization: 1006(40)
Map (geol.): 1286(70)

CHIGNIK BAY (SW)

General: 726(1880)

CHIGNIK BAY COAL and FISH COMPANY (SW)

General: 321(1890)

CHIGNIK COAL FIELD (SW)

Analysis: 255(00), 269(60), 356(20), 469(70), 470(40), 659(70),
730(20), 744(10), 926(IP), 1049(10), 1102(70), 1170(40),
1226(10)
Character: 926(IP), 254(10)
Development Potential: 293(70)
General: 277(60), 302(40), 321(1890), 352(10), 477(10),
490(1890), 531(10), 546(20), 804(70), 819(1890), 836(00),
1169(20), 1250(00), 1318(70)

CHIGNIK COAL FIELD contd.

Geology: 338(00), 368(60), 467(70), 471(40), 478(10), 585(40),
730(20), 1018(30), 1085(00), 1150(50)
History: 858(80)
Land Status: 504(70)
Mining: 254(10), 255(00), 329(10), 469(70), 477(10), 730(20),
801(60), 859(00), 985(IP), 1018(30), 1046(10)
Overview: 808(70), 984(70)
Production: 985(IP)
Rank: 269(60), 341(20), 441(10), 813(70), 1301(70)
Reserves: 9(70), 11(70), 255(00), 293(70), 469(70), 504(70),
534(00), 694(00), 1249(70)
Stratigraphy: 254(10), 255(00), 269(60), 467(70), 730(20),
1049(20)
Structure: 254(10), 255(00), 338(00), 467(70), 730(20), 1307(60)
Transportation: 254(10)
Washability: 467(70), 926(IP)

CHIGNIK COAL MINING CO. (SW)

General: 352(10)

CHIGNIK FORMATION (SW)

Geology: 501(70), 586(40)
Paleontology: 501(70)

CHILKAT RIVER (SC)

Analysis: 338(00)
Geology: 526(1890)
Reserves: 534(00)

CHINALDNA RIVER (SC)

General: 738(00)

CHISANA - WHITE RIVER

Geology: 391(10), 399(10)

CHISTOCHINA RIVER

Analysis: 478(10), 775(00), 782(00), 818(00), 1226(10), 1244(10)
Development: 775(00)
General: 339(00), 359(00)
Geology: 775(00), 818(00)
Production: 775(00)
Structure: 818(00)

CHITISTONE RIVER (SE)

Analysis: 339(00), 478(10), 775(00), 782(00), 818(00), 1244(10)
General: 359(00)
Geology: 775(00), 846(10), 848(00)

CHITNA VALLEY (SC)

Reserves: 848(00)

CHRISTOPHER PROSPECT (SC)

Analysis: 1244(10), 1170(40)

General: 643(10)

CHUGACH (SC)

Development: 702(70)

General: 585(40)

Geology: 512(10), 576(10), 1326(10)

Structure: 512(10), 576(10)

CHUGACHIK BAY

Mining: 801(60)

CHUITKILNACHINA CREEK (SC)

Reserves: 509(70)

CHUITNA RIVER (SC)

Analysis: 271(60), 281(60), 507(80), 644(70), 810(70), 812(70),
1235(80)

Character: 296(80)

Coal Fire: 271(60)

Development: 525(70), 887(70)

Drilling: 812(70)

Economic Potential: 296(80)

Environmental Impact: 1235(80)

Gasification Potential: 811(70), 812(70)

General: 6(70), 13(70), 405(30)

Geology: 296(80), 327(80), 644(70), 910(80), 997(IP)

History: 638(70)

Leases: 296(80)

Mining: 296(80), 638(70), 733(70)

Mining Costs: 1235(80)

Rank: 810(70), 812(70)

Reclamation: 296(80)

Reserve: 810(70), 812(70), 1235(80)

Stratigraphy: 271(60), 910(80)

Transportation: 296(80), 1235(80)

CHUKCHI SEA (AR)

Analysis: 12(70)

General: 985(IP)

Reserves: 11(70)

CHULITNA COAL COMPANY

Correspondence: 99(20)

CHULITNA REGION (SC)

General: 407(10), 1036(40), 1141(30)
 Geology: 401(10), 423(70), 529(1890), 972(30)
 Structure: 423(70)
 Reserves: 972(30)

CIRCLE (I)

Analysis: 446(00)
 General: 338(00), 985(IP)
 Geology: 446(00)
 Mining: 859(00)
 Reserve: 317(70)
 Stratigraphy: 446(00)
 Transportation: 317(70)

CLAIMS

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General: 726(1880), 1025(30), 1232(10), 1247(10)
 History: 574(10)
 List: 1224(10)
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 SC: 574(10), 714(10), 739(10), 776(10)

CLAM GULCH (SC)

Dating Methods: 1131(70)
 Petrography: 1131(70)
 Structure: 794(10)
 Volcanic Ash Partings: 1131(70)

CLEAR CREEK

Analysis: 470(40), 571(10), 744(10), 780(00), 782(00), 1170(40),
 1244(10)
 General: 280(50)
 Geology: 471(40), 478(10), 561(-), 780(00), 1084(00)
 Stratigraphy: 780(00), 782(00)
 Structure: 478(10)

CLEARWATER CREEK (I)

General: 843(30)
 Geology: 406(20), 1039(20)

CLEMENS THEIN MINE (I)

Mining: 859(00)

CLEVELAND CONSOLIDATED COAL COMPANY

General: 422(10)

Mining: 1046(10)

CLEVELAND MINING DISTRICT (SC)

Mining: 290(70)

CLIFF CREEK (NW)

Analysis: 338(00)

Geology: 446(00)

Stratigraphy: 446(00)

CLIMATIC CONDITIONS

General: 424(70), 566(10), 750(70), 793(70), 1235(80), 1258(80),
1274(80), 1312(60)

COAL BAY (SC)

General: 255(00), 362(20), 491(1890), 819(1899), 875(10), 1109(1880)

Geology: 338(00)

History: 638(70), 858(80)

Mining: 638(70), 859(00)

COAL CAPE (SW)

Geology: 338(00)

COAL CENTER

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General: 19(50)

COAL CONVERSION

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COAL CONTRACTS

General: 24(60), 29(60), 30(60), 33(60), 61(30), 69(30), 84(50),
141(20-30), 197(50), 657(20), 952(10), 1224(10)

COAL COVE (SC)

Analysis: 12(70)

Geology: 794(10)

Mining: 794(10)

Structure: 794(10)

COAL CREEK (AR)

General: 764(10)

COAL CREEK (I)

Analysis: 338(00), 446(00), 1042(10), 1201(60)
 Coal Fires: 271(60)
 Development: 58(20)
 General: 395(20), 447(00), 584(00), 879(20), 901(00), 1022(70),
 1024(30), 1025(30), 1036(40)
 Geology: 287(50), 391(10), 398(10), 399(10), 406(20), 446(00),
 449(00), 774(40), 840(30), 847(10), 899(00), 1042(10),
 1054(1890), 1201(60), 1295(50), 1296(60), 1325(60)
 Location: 1289(70)
 Mining: 1022(20)
 Reserves: 509(70), 724(10)
 Stratigraphy: 271(60), 447(00)
 Structure: 287(50), 899(00), 1296(60)

COAL CREEK (SC)

Analysis: 2(60), 74(20), 279(50), 470(40), 572(10), 656(20),
 744(10), 759(60), 769(50), 782(00), 784(10), 790(00),
 791(00), 870(00), 972(30), 973(30), 1006(40), 1244(10)
 Carbonization: 1006(40)
 Character: 389(10), 395(20), 927(30)
 Closure: 1068(20)
 Development: 514(20), 608(00), 819(1890), 832(20), 838(10),
 948(20), 1030(30)
 General: 261(20), 285(50), 395(20), 1017(20), 1048(10), 1307(60)
 Geology: 393(20), 481(10), 585(40), 656(20), 675(50), 769(50),
 789(10), 794(10), 870(00), 1086(00)
 History: 858(80)
 Leases: 389(10), 514(20), 1071(20)
 Marketing: 1030(30)
 Mining: 675(50), 1029(30), 1030(30), 1031(30), 1081(20)
 Naval Alaskan Coal Commission: 1081(20), see also this subject
 heading
 Overview: 808(70)
 Photographs: 656(20)
 Production: 1030(30)
 Reserves: 509(70), 724(10), 972(30)
 Stratigraphy: 271(60), 389(10), 656(20), 782(00), 790(00), 791(00),
 794(10), 972(30), 993(-), 1086(00)
 Structure: 279(50), 656(20), 769(50), 794(10), 972(30), 1086(00)

COAL CREEK (SE)

Analysis: 760(70)
 Geology: 760(70)

- COAL CREEK (SW)
Stratigraphy: 867(00)
Structure: 867(00)
- COAL DUST
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- COAL ENVIRONMENTS
General: 442(70)
- COAL FIRES
AR: 338(70), 740(10)
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980(50), 1119(70), 1209(50-70), 1295(50)
SC: 132(20), 232(40), 285(50), 305(70), 703(50), 1056(60),
1119(70), 1179(50), 1204(70), 1207(50), 1209(50-70),
1213(50-70), 1214(70), 1220(50), 1310(50)
- COAL HARBOR MINE (SC)
Analysis: 255(00), 470(40), 744(10), 1170(40)
General: 324(00)
Geology: 255(00), 471(40), 1085(00), 1105(1980)
History: 638(70)
Mining: 471(40), 638(70)
Reserves: 534(00), 1107(80)
Stratigraphy: 255(00)
- COAL LAKE (SC)
Geology: 769(50)
Structure: 769(50)
- COAL MINE NO. 1 (I)
Analysis: 447(00)
General: 584(70)
Geology: 447(00)
Mining: 447(00)
Structure: 447(00)
- COAL MINE CREEK
Analysis: 413(20)
Mining: 413(20), 1066(20)
- COAL POINT (SC)
History: 858(80)

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Anchorage Coal Docks Photographs: 50(10)
 General: 60(20), 70(40), 71(40), 72(40), 122(20+), 701(70),
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 Seward: 68(30)

COAL TESTING LABORATORY - ANCHORAGE

Correspondence: 146(40-50)
 General: 82(50), 84(50)
 Report: 1007(30), 1008(30), 1009(30), 1010(30)

COAL VALLEY FORMATION

General: 254(10), 772(70)
 Geology: 501(70)

COAL WASHERY PLANT - SUTTON

See Sutton Coal Washery Plant

COALING STATIONS

93(50), 969(00), 970(00), 971(00)

COLD BAY (SW)

General: 490(1890)
 Geology: 1085(00)

COKING COAL: 202(40-50), 251(-), 344(20), 775(00), 784(70), 985(IP),
 987(IP), 1199(70)

Regions:

AR: 386(IP), 731(IP), 734(60), 918(70), 921(80), 924(70),
 1149(60), 1211(60), 1302(60), 1309(60)
 I: 625(60), 1262(60)
 SC: 395(20), 563(20), 609(00), 625(60), 626(60), 780(00),
 782(00), 783(00), 790(00), 791(00), 837(60), 909(20),
 918(70), 924(70), 986(70), 1026(30), 1149(60), 1169(20),
 1262(60), 1322(50)

COLLINSON POUND

General: 740(10)

COLORADO STATION (I)

Analysis: 235(50), 470(40), 1170(40)
 Geology: 471(40)
 History: 858(80)
 Mining: 471(40)

COLVILLE RIVER BASIN (AR)

Analysis: 269(60), 270(60), 327(80), 329(10), 478(10), 517(60),

COLVILLE RIVER BASIN - Analysis contd.

585(40), 637(60), 775(00), 782(00), 999(00), 1005(50),
 1044(30), 1226(10), 1235(80), 1244(10)
 Boghead Coal: 1117(20)
 Character: 339(60), 1117(20), 1206(70)
 Development Potential: 634(00), 1205(70), 1206(70)
 Drilling: 967(50)
 Environmental Impact: 1235(80)
 General: 359(00), 491(1890), 917(80), 1250(00)
 Geology: 270(60), 327(80), 329(10), 338(00), 358(10), 445(00),
 581(70), 585(40), 710(70), 775(00), 999(00), 1040(20),
 1044(30)
 History: 858(80), 999(00)
 Mining: 327(80)
 Mining Costs: 1235(00)
 Overview: 984(70)
 Production: 1235(80)
 Rank: 269(60), 441(10), 1307(60)
 Reserves: 358(10), 424(70), 634(00), 710(70), 1110(70), 1235(80),
 1333(70)
 Structure: 269(60), 270(60), 327(80), 445(10), 999(00), 1040(20)
 Transportation: 1235(80)

COMBUSTION OF COAL

General: 474(-)

CONSOLIDATED NO. 1 (SC)

Mining: 1046(10)

CONSOLIDATED NO. 2 (SC)

Mining: 1046(10)

CONSUMPTION, see UTILIZATION

CONTROLLER BAY COAL COMPANY (SC)

Analysis: 554(10)
 Claims: 554(10)
 Coal Survey Plats: 1168(00)
 Explosions: 544(10)
 General: 530(10)
 Geology: 554(10)
 History: 544(10)
 Marketing Potential: 554(10)
 Mining: 554(10)

CONTROLLER BAY COAL FIELD (SC)

Analysis: 329(10), 338(00), 448(00), 551(-), 778(00), 782(00)
 Character: 324(00), 548(10)
 Claims: 577(00), 688(10)
 Development: 348(00), 551(-)
 Development Potential: 548(10), 578(10), 634(00), 782(00)
 General: 177(10), 190(10), 326(00), 346(00), 360(10), 422(10),
 776(10), 836(00), 845(20), 1055(00)
 Geology: 329(10), 337(10), 338(10), 345(00), 358(10), 360(10),
 512(10), 526(1890), 551(-), 576(10), 714(10), 752(10),
 754(10), 778(00), 782(00), 846(10), 1326(10)
 Map: 782(00)
 Marketing Analysis: 252(60), 548(10), 782(00)
 Mining: 80(60)
 Production: 548(10)
 Reserves: 345(00), 360(10), 634(00), 752(10), 754(10), 782(00)
 Stratigraphy: 512(10), 780(00), 782(00)
 Transportation: 548(10)

COOK INLET COAL FIELD (SC)

✓ Analysis: 255(00), 281(60), 327(80), 329(10), 338(00), 644(70),
 799(70), 1005(50), 1085(00), 1170(40)
 ✓ Character: 925(80)
 ✓ Claims: 1168(00)
 ✓ Development: 353(10), 639(50)
 ✓ Development Potential: 482(10), 545(70), 634(00), 721(IP),
 722(00), 888(70), 938(70), 979(70), 1123(70)
 ✓ Economic Potential: 644(70), 979(70)
 ✓ Environmental Deposition: 1130(IP)
 ✓ Exploration: 888(70)
 ✓ Gasification Potential: 811(70)
 ✓ General: 1(00), 6(70), 13(70), 190(10), 283(50), 285(50), 290(70),
 302(40), 309(20), 337(10), 346(00), 354(10), 405(30),
 407(10), 480(10), 524(70), 599(00), 608(00), 622(50),
 728(1890), 738(00), 777(20), 796(10), 804(70), 845(20),
 858(80), 861(60), 875(10), 883(30), 985(IP), 1108(1880),
 1109(1880), 1250(00), 1296(60)
 ✓ Geology: 255(00), 281(60), 327(80), 329(00), 338(00), 345(00),
 393(20), 394(40), 402(30), 406(20), 415(20), 430(80),
 529(1890), 585(40), 604(60), 644(70), 769(50), 794(10),
 939(30), 998(70), 1085(00), 1086(00), 1105(1880),
 1150(50), 1326(10), 1334(60)
 ✓ History: 193(10), 630(10), 858(80)
 ✓ Land Status: 265(70)
 ✓ Methane: 430(80)
 ✓ Mining: 322(00), 327(80), 393(20), 466(IP), 469(70), 694(00),
 794(10), 825(10), 1046(10)

COOK INLET COAL FIELD contd.

Overview: 1239(70)
 Permits: 228(10-20)
 Power Generation Potential: 466(IP), 815(70)
 Production: 728(10-30), 1067(20)
 Rank: 281(60), 341(20), 441(10), 782(00)
 Reserves: 358(00), 482(10), 534(00), 545(70), 639(50), 722(00),
 782(00), 812(70), 938(70), 987(IP), 1150(50), 1249(70)
 Slurry Pipeline: 644(70)
 Stratigraphy: 717(60), 794(10), 1086(00)
 Structure: 327(80), 769(50), 794(10), 998(70)
 Washability: 925(80)
 Volcanic Ash Partings: 1130(IP)

COOK INLET COAL FIELD COMPANY

History: 859(00)
 Mining: 801(80)

COOK INLET CORPORATION

General: 902(IP)

COOK INLET MINE

Analysis: 470(40)

COOK INLET TRANSPORTATION COMPANY

General: 875(10)

COOPER COAL and COMMERCIAL COMPANY

General: 290(70)

COOPER COAL BED (SC)

Analysis: 1170(40)
 Geology: 283(50), 704(40)

COOPER CREEK

Geology: 1086(00)
 Mining: 1086(00)
 Stratigraphy: 1086(00)
 Structure: 1086(00)

COPPER RIVER and NORTHWESTERN RAILROAD CORPORATION

General: 1222(10)

COOPER RIVER REGION (SC)

Analysis: 329(10), 478(10)
 General: 358(10), 394(40), 585(40), 819(1890),
 Geology: 329(10), 338(00), 846(10)
 Rank: 394(40), 782(00)
 Reserves: 782(00)

CORDOVA (SC)

General: 316(70), 836(00), 1123(70)

CORTELLA COAL CORPORATION (SC)

Analysis: 923(60)
 General: 473(-)
 Washability: 923(60)

CORWIN BLUFF (AR)

Analysis: 12(70), 269(60), 270(60), 388(70), 448(00), 637(60),
 1044(30), 1235(80)
 Coking: 1307(60)
 Drilling: 388(70)
 Environmental Impact: 1235(80)
 General: 312(20), 917(80)
 Geology: 270(60), 344(20), 384(70), 386(IP), 388(70), 448(00),
 585(40), 710(70), 1040(20), 1044(30)
 History: 638(70), 858(80)
 Location: 388(70)
 Mining: 333(10), 338(00), 448(00), 458(70), 638(70), 866(00)
 Mining Costs: 1235(80)
 Production: 458(70), 1235(80)
 Rank: 269(60)
 Reserves: 384(70), 424(70), 1235(80), 1333(20)
 Stratigraphy: 270(60), 448(00), 1044(30), 1303(60)
 Structure: 270(60), 448(00), 1040(20), 1044(30)
 Transportation: 1235(80)

CORWIN FORMATION (AR)

Analysis: 3(80)
 Character: 3(80)
 Geology: 3(80), 445(00), 458(70), 731(IP), 981(50), 982(50)
 Mining: 731(IP)
 Stratigraphy: 445(00), 731(IP)
 Structure: 445(00), 458(70), 731(IP)
 Trace Element: 3(80)

CORWIN MINES (AR)

Analysis: 493(80), 999(00)
 General: 478(10)
 Geology: 493(80)
 Mining: 1046(10)
 Resources: 492(80)

CORWIN TRADING COMPANY

General: 338(00), 445(00), 866(00)

COSTELLO CREEK (SC)

Analysis: 2(60), 12(70), 470(40), 959(60), 1005(50), 1170(40),
 1235(80), 1281(40)
 Closure: 1076(40)
 Development: 583(40)
 Drilling: 1200(40)
 Environmental Impact: 1235(80)
 General: 151(50), 394(40), 985(IP)
 Geology: 383(70), 423(70), 471(40), 585(40), 1281(40)
 History: 858(80)
 Locations: 383(70)
 Maps, (ext.): 213(40)
 Mine Map: 1200(40)
 Mining: 471(40), 583(40), 1235(80)
 Production: 959(60), 1235(80)
 Reserves: 1200(40), 1235(80), 1281(40)
 Structure: 423(70), 959(60), 1281(40)
 Transportation: 1235(80)

COTTONWOOD CREEK (SC)

Dating Methods: 1311(70)
 Geology: 407(10), 1085(00), 1086(00)
 Petrography: 1311(70)
 Stratigraphy: 1086(00)
 Structure: 407(10), 1086(00)
 Volcanic Ash Partings: 1131(70)

CRIPPLE CREEK

Analysis: 235(50), 236(50), 237(50), 240(50), 242(60), 243(60),
 244(60), 245(60), 246(60), 247(60), 248(60), 249(60),
 431(50), 1171(70), 1172(70), 1173(70), 1295(50)
 General: 24(60), 666(50), 1289(70)
 Geology: 774(40), 792(20)
 Map: 217(-), 1243(-)
 Mining: 669(50), 802(70)
 Stratigraphy: 431(50)
 Structure: 792(20)

CRIPPLE CREEK COAL COMPANY

Contracts: 30(60), 82(50)
 General: 21(50), 31(60), 39(60), 75(50), 151(50), 167(50),
 197(50), 1324(60)
 Map: 485(50)
 Mining: 980(50)
 Railroad: 1231(50)

CROW CONSOLIDATED COAL COMPANY

Coal Survey Plats: 1168(00)

CUNNINGHAM CLAIMS (SC)

Analysis: 470(40), 572(10), 1170(40), 1238(10)
 General: 177(10), 367(60), 572(10), 576(10), 577(00), 687(10),
 708(10), 714(10), 858(80), 1170(40), 1230(10), 1238(10),
 1326(10)
 Geology: 471(40), 1238(10)
 Production: 330(10)
 Review: 523(10), 1088(10)
 Structure: 1238(10)

CUNNINGHAM RIDGE (SC)

Analysis: 484(10)
 Geology: 475(10), 484(10)
 Stratigraphy: 782(00)
 Structure: 475(10)

CURTIS SEAM (SC)

Analysis: 338(00)
 General: 338(00), 490(90)
 Geology: 338(00), 1086(00)
 Stratigraphy: 1086(00)
 Structure: 1086(00)

DAHL

General: 195(40)

DAKOTA CONSOLIDATED COAL COMPANY (SC)

Coal Survey Plat: 1168(00)
 Mining: 1046(10)

DALL RIVER VALLEY (I)

Analysis: 447(00)
 General: 269(60), 338(00), 429(70), 584(70), 985(IP)
 Geology: 446(00), 447(00), 516(10), 1325(60)
 Stratigraphy: 446(00), 764(10)
 Structure: 447(00)

DANGEROUS CAPE (SC)

Geology: 794(10)
 Structure: 794(10)

DATING METHODS

General: 856(70), 1128(70), 1130(IP), 1131(70), 1147(80), 1148(70)

DAVID BED

Analysis: 74(20), 415(20), 1170(40)
 Geology: 416(20), 471(40), 781(10), 1142(30)
 Mining: 416(20)
 Production: 416(20)
 Structure: 415(20), 416(20)

DAVIS CAMP

General: 714(10)

DAVIS CREEK

Geology: 338(00)

DAVIS MINE (SC)

Development: 553(20)

DAWSON-MURPHY MINE

Mining: 1081(20)

DEAD FALL SYNCLINE (AR)

Reserves: 492(80)

DEATH VALLEY

Analysis: 493(80)
 Geology: 493(80)
 Reserves: 492(80)

DEEP CREEK (SC)

General: 808(70)
 Geology: 1014(70)
 Mining: 283(50)
 Structure: 1014(70)

DEEPBANK CREEK

Geology: 1016(IP),
 Stratigraphy: 1015(70)
 Structure: 1015(70), 1016(IP)

DEERING COAL MINE

Reopening: 1166(40)

DEGROFF SEAM

Analysis: 338(00)

DELONG MOUNTAINS

Coal Locations: 384(70)

Geology: 384(70)

Resources: 384(70)

DELTA COAL COMPANY

General: 42(60)

DELTA CREEK

Geology: 398(10)

DELTA RIVER (I)

General: 840(50)

DEPOSITION ENVIRONMENT

General: 1129(70), 1130(IP)

DEVELOPMENT POTENTIAL (SINCE 1950)

See also ECONOMIC POTENTIAL and MARKETING POTENTIAL

AR: 252(60), 315(70), 419(60), 605(IP), 710(70), 731(IP), 898(70),
1110(60), 1205(70)

I: 505(IP), 507(80), 938(70), 1011(80), 1332(60)

NW: 492(80)

SC: 252(60), 308(IP), 504(70), 507(80), 508(70), 545(70), 721(IP),
733(70), 800(IP), 863(70), 889(IP), 902(IP), 938(70), 997(IP),
1011(80), 1058(70), 1059(70), 1205(70)Multiple Areas: 293(70), 314(70), 316(70), 370(70), 517(IP),
525(70), 535(70), 567(70), 582(80), 587(70),
652(70), 686(60), 702(70), 706(IP), 712(60),
750(70), 797(80), 805(IP), 808(70), 858(80),
888(70), 889(IP), 895(IP), 940(70), 985(IP),
987(IP), 1022(70), 1123(70), 1196(70), 1197(70),
1206(70), 1234(80), 1347(70)

Environmental Constraints: 1094(IP)

Overview: 1149(60), 1258(80), 1329(70)

DEVIL MOUNTAIN

Analysis: 493(80)

Geology: 493(80)

DIAMOND COAL COMPANY (SC)

Closure: 980(50)

Mining: 1078(40)

DIAMOND CREEK

Stratigraphy: 255(00)

DIAMOND STRIP MINE PROJECT 812 (I)

Analysis: 585(40), 1120(40), 1180(40)

Capital Costs: 1120(40)

Geology: 585(40), 704(40), 774(40), 1180(40)

History: 1180(40)

Maps: 212(40), 382(40)

Mining: 1125(40)

Reserves: 1180(40)

Structure: 704(40)

DICK CREEK (SC)

Analysis: 1244(10)

Stratigraphy: 782(00)

DISCOVERY (NW)

Geology: 829(20)

Mining: 829(20)

Structure: 829(20)

DISENCHANTMENT BAY (SE)

General: 324(00)

Geology: 338(00), 977(1890)

DOHERTY COAL COMPANY (SC)

Closure: 186(10)

Geology: 232(40)

History: 193(10)

Mining: 186(10), 771(10)

Stratigraphy: 186(10)

DOHERTY MINE (SC)

Analysis: 573(20), 770(10), 1303(60)

Development: 1313(30)

Development Potential: 582(80)

General: 185(10), 333(10), 395(20), 955(10)

Geology: 770(10), 1303(60)

Marketing Potential: 582(80)

Mining: 771(10), 781(10)

Production: 770(10)

Reserves: 1303(60)

Structure: 770(10)

- DONNELLY COAL FIELD (I)
 Analysis: 1118(40), 1125(40)
 Exploration: 1118(40)
 Map: 1197(40)
 Stratigraphy: 1125(40)
- DONNELLY DOME MINE (I)
 General: 34(60)
- DORIS COVE (SW)
 General: 490(1890)
- DOUGHERTY MINE (SC)
 Analysis: 415(20), 1170(40)
 Geology: 415(20)
 Mining: 415(20)
 Structure: 415(20)
- DRAKE CONSOLIDATED COAL COMPANY (SC)
 Mining: 1046(10)
- DREW MINE (I)
 Analysis: 446(00), 447(00), 822(30), 1291(60)
 General: 269(70), 584(70), 827(30)
 Geology: 446(00), 447(00), 1201(60)
 History: 858(80)
 Prospecting: 1058(1890)
 Stratigraphy: 822(30)
 Structure: 447(00)
- DRILL CREEK (SC)
 Reserves: 509(70)
 Stratigraphy: 271(60)
 Structure: 271(60)
- DRILLING
 AR: 386(IP), 865(IP), 936(50), 964(50), 965(60), 966(50), 967(50),
 968(50), 1111(70), 1121(60), 1302(60), 1309(60)
 I: 1274(80), 1308(IP)
 SC: 187(10), 278(50), 287(50), 306(70), 308(IP), 421(80), 705(50),
 803(10), 812(70), 860(IP), 948(20), 949(20), 978(40), 1146(60),
 1185(-), 1186(50), 1187(-), 1209(60), 1210(50), 1215(50),
 1216(50), 1221(50), 1303(60), 1305(60), 1306(60)
- DRYING OF COAL
 General: 917(80), 928(70), 929(IP), 931(IP), 976(IP)

DUCK FLAT COMPANY

Analysis: 235(50)
 General: 110(50)
 Houston Sublease: 151(50)
 Mining: 987(IP)

DUKTOTH VALLEY (SC)

Analysis: 765(10)
 General: 571(10)
 Geology: 765(10)

DUNBAR CLAIM

Analysis: 1007(30)

DUNKLE MINE (SC)

Analysis: 862(40), 978(40), 1005(50), 1170(40), 1281(40)
 Contracts: 83(50)
 Development: 668(50)
 Development Potential: 1200(40)
 Drilling: 978(40), 1200(40)
 Geology: 585(40), 978(40), 1281(40)
 History: 858(80), 978(40)
 Maps: 213(40), 1200(40)
 Mining: 1150(50)
 Production: 978(40)
 Reserves: 978(40), 1200(40), 1281(40)
 Stratigraphy: 978(40)
 Structure: 978(40), 1281(40)

DUTCH HARBOR (SW)

History: 638(70)
 Mining: 638(70)
 Naval Coal Depot: 971(00)

DRY CREEK BASIN

General: 396(10)
 Geology: 390(10), 398(10)
 Locations: 1290(70)
 Structure: 390(10)

EAGLE (I)

Analysis: 12(70), 294(70), 327(80), 470(40), 659(70), 926(IP)
 Character: 926(IP)
 Development Potential: 293(70)
 General: 269(60), 277(60), 316(70), 469(70), 584(70), 804(70),
 813(70), 985(IP)
 Geology: 294(70), 327(80), 579(70)

EAGLE contd.

History: 858(80)
 Land Status: 504(70)
 Marketing Potential: 293(70)
 Mining: 327(80)
 Rank: 813(70)
 Reserves: 11(70), 293(70), 504(70)
 Structure: 327(80), 659(70)
 Washability: 926(IP)

EAGLE HARBOR (SW)
 General: 1085(00)

EAGLE RIVER (SC)
 General: 394(40)

EASTLAND CANYON (SC)
 Analysis: 1085(00)
 General: 490(1890), 875(10)
 Geology: 1085(00), 1086(00)
 Stratigraphy: 1086(00)
 Structure: 1086(00)

EASTLAND SEAM (SC)
 Analysis: 338(00)

ECONOMIC POTENTIAL (SINCE 1950)
 General: 665(50), 742(IP), 749(80), 860(IP), 895(IP), 940(70),
 946(80), 961(IP)
 NW: 873(70)
 SC: 960(IP), 1058(70), 1059(70)
 Overview: 994(IP), 1149(60)

ECONOMICS

General: 300(IP), 301(IP), 409(70), 459(70), 466(IP), 520(IP),
 535(70), 565(70), 602(70), 773(70), 805(IP), 906(IP),
 1336(IP)
 AR: 386(IP), 424(70), 605(IP), 865(IP)
 I: 458(70), 507(80), 517(IP), 646(70), 1270(IP)
 SC: 296(80), 458(70), 507(80), 508(70), 517(IP), 524(70), 525(70),
 644(70), 857(IP), 889(IP), 902(IP), 1140(70)
 Home Heating: 1052(IP)
 Multiple Areas: 804(70), 959(60)
 Overview: 1258(80)

EDWARD T. McNALLY MINE

Leases: 514(20)
 Mining: 344(20)
 Production: 62(20)

EEK RIVER

Exploration: 673(20)
 General: 763(10)
 Geology: 673(20)
 Stratigraphy: 673(20)
 Structure: 673(20)

ELEPHANT POINT

Analysis: 493(80)
 Distribution: 893(70)
 Geology: 493(80)
 Resources: 492(80)
 Structure: 893(70)

EL SODERQUEST

Analysis: 74(20)

ELUSIVE CREEK (AR)

Analysis: 270(60), 388(70), 419(60)
 Drilling: 388(70)
 Geology: 386(IP), 388(70), 419(60), 710(70)
 Location: 388(70)

EMERY BED (SC)

Analysis: 415(20), 1170(40)
 Geology: 416(20), 471(40), 781(10)
 Mining: 416(20), 781(10)
 Production: 416(20)
 Structure: 415(20), 416(20), 781(10)

EMERY-KELLY MINE

Analysis: 573(20)

EMMA CREEK (I)

Analysis: 786(10)
 Geology: 786(10)
 Structure: 786(10)

EMPLOYMENT/SOCIO-ECONOMIC CONDITIONS

General: 863(70), 877(70), 1077(40), 1078(40)
 AR: 898(70)
 SC: 794(10), 889(IP)

EMPLOYMENT/SOCIO-ECONOMIC CONDITIONS contd.

Army: 1076(40)
 Mines: 133(40)
 Recruitment: 1076(40)
 Statistics: 15(50), 1146(60) (See also STATISTICS)

ENGLISH BAY (SC)
 Geology: 1334(60)

ENGLISH COMPANY (SC)
 General: 551(-), 714(10)

ENGLISH GROUP (SC)
 General: 913(10)

ENGLISH HARBOR (Also called Coal Village) (SC)
 First Mine: 767(1863)
 Mining: 767(1863)

ENVIRONMENTAL IMPACT

AR: 710(70), 731(IP), 1268(70)
 I: 953(70), 1271(70)
 SC: 194(70), 721(IP), 733(70), 960(IP), 996(70), 997(IP),
 1268(70)
 General: 13(70), 300(IP), 370(70), 464(70), 474(70), 503(IP),
 533(70), 565(70), 597(70), 691(IP), 692(70), 701(70),
 706(IP), 773(70), 798(70), 852(IP), 854(70), 906(IP),
 1094(IP), 1095(80), 1235(80)
 Multiple Areas: 835(IP), 1053(IP), 1336(IP)
 Overview: 1258(80)
 Power Plant: 1248(50)

EQUIPMENT

AR: 865(IP), 991(40)
 I: 8(70), 1274(80)
 SC: 512(10), 716(50), 769(50), 889(IP)
 Continuous Miner: 155(50)
 Correspondence: 59(20)
 Dragline: 231(70)
 Equipment Transfer (horses): 139(20)
 General: 189(10), 664(10), 750(70), 956(10)

ESKA COAL MINE

Analysis: 2(60), 132(20), 232(40), 267(50), 389(10), 395(20),
 415(20), 470(40), 476(10), 478(10), 573(20), 585(50),
 593(40), 705(50), 744(10), 790(00), 791(00), 795(10),
 862(10), 869(10), 870(00), 904(60), 924(70), 947(20),

ESKA COAL MINE - Analysis contd.

948(20), 962(70), 1005(50), 1045(-), 1142(30), 1169(20),
 1170(40), 1244(10), 1303(60)
 Bid: 109(40)
 Briquetting: 724(10)
 Closure: 103(20-30), 110(50), 132(20), 145(20-60), 657(20),
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AR: 419(60), 445(00), 448(00), 522(40), 594(40), 1110(60),
1309(60)
Anthracite: 1314(30)
Beluga River: 665(50), 887(70)
Bering River: 711(10)
Broad Pass: 675(50)
Chandler River: 517(60)
Chickaloon: 1314(30)
Controller Bay: 554(10)

HISTORY OF COAL MINING contd.

Cook Inlet: 1105(1880)
 Costello Creek: 978(40)
 Eska: 1045(20)
 Evan Jones: 716(50), 1146(60)
 Homer: 283(50)
 Houston: 800(50)
 I: 979(70)
 Katchemak Bay: 875(10), 1086(00)
 Katalla: 544(10), 559(10), 711(10)
 Kenai Peninsula: 283(50), 290(70), 603(10), 907(60)
 Matanuska: 476(10), 899(IP), 1303(60)
 Moose Creek District: 232(40), 1313(30)
 Mt. McKinley: 354(10)
 Multiple Areas: 12(20), 150(60), 175(30), 277(60), 294(70),
 329(10), 334(20), 348(00), 350(10), 410(70),
 457(70), 460(70), 466(IP), 553(20), 587(70),
 600(10), 627(70), 694(00), 801(60), 858(80),
 872(10), 984(70), 985(IP), 1018(30), 1021(20),
 1226(10), 1258(80)
 NW: 349(00)
 Nenana: 774(40), 1271(70)
 Reclamation History: 464(70)
 SC: 232(40), 285(50), 302(40), 415(20), 739(10), 948(20),
 979(70)
 SW: 1085(00)
 Usibelli: 462(70), 802(70)
 Wishbone Hill: 286(50)
 Yanert: 580(30)

HOCKLEY HILLS (NW)

Analysis: 493(80)
 Geology: 493(80)

HODZANA RIVER (I)

Analysis: 1325(60)
 General: 584(70), 1201(60)
 Geology: 1325(60)

HOLITNA (SW)

General: 1037(10)
 Mining: 1037(10)

HOMER COAL CORPORATION (SC)

- ✓ Analysis: 2(60), 267(50)
- ✓ Development: 674(40)
- ✓ General: 151(50), 283(50), 285(50), 290(70), 704(40)
- ✓ Geology: 267(50)
- ✓ Map: 674(40), 1183(50)
- ✓ Mine Fire: 1183(50)
- ✓ Mining: 980(50), 1077(40), 1078(40)
- ✓ Photographs: 279(50)
- ✓ Stratigraphy: 267(50)
- ✓ Structure: 267(50)

HOMER COAL MINE (SC)

- ✓ Closure: 666(50)
- ✓ Geology: 283(50)
- ✓ Stratigraphy: 283(50)
- ✓ Structure: 283(50)

HOMER DISTRICT (SC)

- ✓ Analysis: 12(70), 659(70), 813(70), 1085(00), 1125(40)
- ✓ Coal Fire: 1179(30), 1183(50), 1207(50), 1221(50), 1290(50-70),
- ✓ Development: 620(40), 621(40)
- ✓ Exploration: 620(40), 621(40), 570(40)
- ✓ General: 255(50), 285(50), 322(00), 618(40), 641(50)
- ✓ Geology: 338(00), 570(40), 1085(00)
- ✓ History: 638(70)
- ✓ Hydrogenation Potential: 230(50), 1151(50)
- ✓ Map: 215(-), 216(-), 222(-), 274(40), 718(40-50), 1252(-)
- ✓ Mining: 570(40), 638(70), 980(50)
- ✓ Palynology: 897(IP)
- ✓ Permits: 641(50)
- ✓ Rank: 269(60), 813(70)
- ✓ Reserves: 269(60), 813(70)
- ✓ Stratigraphy: 223(-), 269(60), 570(40), 875(10), 1125(40)
- ✓ Structure: 338(00), 570(40), 659(70)

HOMESTAKE CREEK (SW)

- ✓ General: 828(10), 829(30)

HOOK BAY (SC)

Analysis: 470(40), 730(20), 744(10), 1049(20)
 Development: 255(00)
 General: 477(10), 808(70)
 Geology: 730(20), 1085(00)
 History: 801(60), 858(80)
 Mining: 356(20), 801(60)
 Stratigraphy: 254(10), 255(00), 1049(20)

HOSEANNA (I)

Analysis: 786(10)
 General: 392(30), 396(10)
 Geology: 393(20), 394(40), 774(40), 786(10), 899(00)
 Structure: 786(10), 899(00)

HOUSTON (SC)

Analysis: 2(60), 234(50), 235(50), 236(50), 237(50), 281(60),
 284(50), 470(40), 800(50), 904(60), 1219(50)
 Drilling: 800(50), 1210(50)
 General: 287(50), 622(50), 641(50), 889(IP), 1035(40)
 Geology: 287(50), 800(50), 1150(50)
 History: 800(50), 904(60)
 Map: 210(-), 211(-), 1197(40), 1210(50)
 Mining: 287(50), 667(50), 800(50), 1034(30)
 Permits: 641(50)
 Reserves: 889(IP)
 Stratigraphy: 284(50), 287(50)
 Structure: 287(50)

HOUSTON COAL MINING COMPANY (SC)

Analysis: 72(49)
 Closure: 666(50)
 Correspondence: 127(40-50)
 Exploration: 1078(40)
 General: 151(50), 157(50), 197(50)
 Reconstruction Finance Corporation: 685(50)
 Sublease Duck Flat: 151(50)
 Washing Plant: 800(50), 980(50)

HOWARD and JESSEN COAL MINE

Analysis: 470(40)
 General: 155(50)
 Geology: 471(40), 585(40), 1255(-)
 Map: 1184(40)
 Mining: 471(40)

HUNT RIVER (NW)
 Analysis: 493(80)
 General: 813(70)
 Geology: 493(80)
 Reserves: 492(80)

HUNTER CREEK
 Analysis: 822(30)
 General: 195(40), 412(20)
 Geology: 516(10)

HUNTS MINE
 Analysis: 572(10)

HYDROGENATION
 General: 71(40), 72(40), 122(20+)
 Homer Field: 231(50), 1151(50)
 Nenana Field: 230(50), 1151(50)

HYDROLOGY
 Multiple Areas: 1002(80), 1235(80), 1258(80)
 SC: 421(80)

ICY BAY (SE)
 Analysis: 338(00)
 General: 279(60), 1055(00)
 Rank: 813(70)

ICY CAPE (SE)
 General: 804(70)

IDITAROD (NW)
 Analysis: 330(10), 470(10), 571(10), 823(30), 962(70), 1020(10),
 1037(10)
 General: 584(70)
 Geology: 330(10), 471(40), 823(30), 1037(10)
 Petrography: 962(70)
 Structure: 330(10), 1020(10)

IGLOO CREEK OUTCROP
 General: 571(10)

IKPIKPUK RIVER (AR)
 Analysis: 2(60), 270(60), 470(40), 522(40), 637(60), 1044(30)
 1235(80)
 Environmental Impact: 1235(80)
 Geology: 445(00), 471(40), 522(40), 710(70)

IKPIKPUK RIVER contd.

Mining Costs: 1235(80)
 Production: 1235(80)
 Reserves: 317(70), 424(70), 710(70), 1235(80)
 Structure: 445(00), 1044(30)
 Transportation: 317(70), 1235(80)

IMURUK BASIN

Analysis: 493(80)
 Geology: 493(80)

INISKIN BAY (SC)

General: 845(20)

INNOKO

Analysis: 470(40), 573(20)
 General: 828(10)
 Geology: 471(40)

INSPIRATIONAL DEVELOPMENT COMPANY

General: 518(70)

IOWA COAL CLAIM

General: 677(10)

IRON CREEK (I)

Geology: 786(10)
 Structure: 786(10)

JACK DALTON TUNNEL (SE)

Geology: 1115(00)

JARVIS CREEK COAL FIELD

Analysis: 2(60), 12(70), 269(70), 327(80), 585(40), 659(70),
 813(70), 920(60), 924(70), 959(60), 1125(40), 1235(80),
 1294(50)
 Character: 924(70)
 Development Potential: 293(70)
 Drilling: 1308(70)
 Economics: 535(70)
 Environmental Impact: 1235(80)
 General: 277(60), 469(70), 804(70), 808(70)
 Geology: 327(80), 585(40), 840(50), 924(50), 1294(50)
 Location: 1294(50)

JARVIS CREEK COAL FIELD contd.

Mining: 327(80), 924(70), 984(70), 985(IP), 1185(50)
 Petrology: 930(80), 1264(60)
 Production: 959(60), 985(IP), 1235(80)
 Rank: 269(70), 813(70)
 Reserves: 11(70), 293(70), 535(70), 813(70), 853(70), 1235(80),
 1264(60), 1294(50), 1308(70)
 Stratigraphy: 840(50), 930(80), 1125(40), 1294(50), 1308(70)
 Structure: 327(80), 659(70), 704(40), 840(50), 959(60), 1294(50)
 Transportation: 1235(80)
 Washability: 924(70)

JEWEL RIDGE COAL COMPANY of VIRGINIA

Exploration: 168(50)
 General: 19(50), 21(50), 746(60), 1307(60)
 Marketing Potential - Japan: 172(50)

JOHN HARTLINE GROUP

Analysis - P.: 556(10)
 Geology: 556(10)

JOHN RIVER See also TRAMWAY BAR (I)

General: 584(70), 999(00), 1038(10), 1044(30)
 Rank: 813(70)

JOHNSON CREEK

General: 985(IP)
 Geology: 308(IP)
 Reserves: 987(IP)
 Stratigraphy: 271(60)

JOHNSON TUNNEL (SW)

Analysis: 744(10)
 Mining: 255(00)

JONESVILLE (SC)

Analysis: 132(20), 235(50), 236(50), 237(50), 238(50), 239(50),
 240(50), 241(60), 242(60), 243(60), 244(60), 245(60),
 246(60), 247(60), 248(60), 249(60), 250(60), 862(40),
 904(60), 924(70), 1005(50)
 Coal Reports: 92(40)
 Development Potential: 1205(70)
 Explosion: 1074(30)
 Freight Rates: 63(20)
 General: 394(40)
 Geology: 458(70), 459(70)
 History: 638(70)
 Mining: 286(50), 638(70), 1075(40), 1076(40)
 Washability: 924(70)

JONESVILLE COAL COMPANY (SC)

Production: 144(30)

JONESVILLE MINE (SC)

Analysis: 962(70)

General: 167(50)

Petrography: 962(70)

Stratigraphy: 1006(40)

JOSEPHINE COAL CLAIM (SC)

General: 375(10)

KACHEMAK BAY (SC)

- Analysis: 12(70), 339(00), 441(10), 448(00), 470(40), 552(-), 600(10), 744(10), 775(00), 782(00), 783(00), 794(10), 875(10), 1085(00), 1126(10), 1244(10), 1250(00)
- Bentonite: 1130(IP)
- Coal Fires: 703(50)
- Coking: 1169(20)
- Dating Methods: 1130(IP), 1131(IP)
- Depositional Environment: 1130(IP)
- Development Potential: 482(10), 553(20)
- General: 321(1890), 344(20), 359(00), 478(10), 480(10), 490(1890), 491(1890), 546(20), 552(-), 599(00), 727(1890), 728(1890), 819(1890), 1048(10), 1250(00)
- Geology: 338(00), 471(40), 529(1890), 553(20), 703(50), 775(00), 794(10), 875(10), 1054(1890), 1085(00), 1086(00), 1105(1880), 1334(60)
- History: 150(60), 290(70), 600(10), 553(20), 858(80)
- Leases: 514(20)
- Marketing - Domestic: 1169(20)
- Mining: 290(70), 329(10), 553(20), 603(10), 694(00), 794(10), 801(60), 859(00), 985(IP)
- Overview: 202(40-50)
- Paleobotany: 1130(IP)
- Paleontology: 1086(00)
- Petrography: 1131(70)
- Production: 794(10), 985(IP)
- Rank: 549(20)
- Reserves: 482(10)
- Stratigraphy: 255(00), 794(10), 875(10), 1086(00)
- Structure: 338(00), 794(10), 875(10), 1086(00), 1169(20)
- Tonsteins: 1130(IP)
- Utilization: 1169(20)
- Volcanic Ash Partings: 1131(70)

- KAHILTNA VALLEY (SC)
 General: 271(60)
 Mining: 825(10)
 Structure: 825(10)
- KAHKATAK CREEK (AR)
 Drilling: 1309(60)
 Equipment: 1309(60)
 Stratigraphy: 921(80)
- KALGIN ISLAND (SC)
 General: 13(70)
- KALLARICHUK RIVER (NW)
 Analysis: 493(80), 1038(10)
 General: 585(40)
 Geology: 493(80), 1038(10)
- KALTAG (I)
 Analysis: 471(40)
 General: 984(70), 985(IP)
 Geology: 471(40)
 Rank: 813(70)
- KALUYAK POINT
 General: 1055(00)
- KANALKU BAY (SE)
 General: 1314(00)
- KANAYUT RIVER (AR)
 Analysis: 270(60), 517(60)
 Geology: 517(60)
 Structure: 517(60)
- KANEKTOK RIVER (SW)
 General: 763(10)
- KANIKAGLUK BAY
 Analysis: 600(10)
 History: 600(10)
- KANTISHNA DISTRICT (I)
 General: 393(20), 396(10), 1039(20)
 Geology: 400(10), 406(20), 899(00)
 Structure: 899(00)

KAOLAK RIVER (AR)
 Analysis: 270(60)
 Cores: 450(50)
 Stratigraphy: 450(50)

KAPALOAK CREEK (AR)
 Analysis: 1110(60)
 Geology: 1110(60)

KASAAN BAY (SE)
 General: 279(60)
 Geology: 338(00)
 Rank: 813(70)

KASHWITNA (SC)
 General: 809(70), 869(00)

KASILOF RIVER (SC)
 General: 1105(1880), 622(50)
 Geology: 794(10)
 Structure: 794(10)

KALTAG FORMATION
 Development Potential: 582(80)

KATALLA (SC)
 Analysis: 470(40), 778(00), 1084(00)
 Claims: 556(10), 687(10)
 Development Potential: 578(10), 634(00)
 General: 548(10), 203(20), 262(10)
 Geology: 471(40), 512(10), 567(70), 714(10), 719(10), 778(00),
 1084(00), 1326(10)
 History: 638(70), 711(10)
 Mining: 554(10), 638(70), 719(10), 739(10)
 Reserves: 634(00), 687(10), 711(10)
 Structure: 512(10), 556(10)

KATALLA ALASKA ANTHRACITE COAL COMPANY (SC)
 Coal Survey Plats: 1168(00)
 General: 422(10), 530(10), 683(10), 1093(10), 1232(10)
 Mining: 1046(10)

KATMAI BAY (SW)
 General: 490(1890), 1085(00)
 Geology: 819(1890)

KAYAK ISLAND (SC)

Analysis: 1084(00), 1244(10)
 Character: 325(00)
 Exploration: 323(00)
 Geology: 338(00), 1084(00)
 Mining: 534(00), 694(00)

KAYAK RECORDING DISTRICT

General: 676(10), 677(10), 678(10), 679(10), 680(10), 681(10),
 682(10), 683(10), 684(10), 752(10), 753(10), 754(10),
 755(10), 756(10), 757(10), 758(10), 911(10), 912(10),
 1061(10), 1062(10), 1088(10), 1168(00)

KEKU STRAITS (SE)

General: 1342(00)

KELLY BED

Analysis: 415(20)
 Geology: 781(10)
 Stratigraphy: 781(10)
 Structure: 781(10)

KENAI COAL FIELD (SC)

- Analysis: 3(80), 12(70), 269(60), 281(60), 294(70), 329(10),
 377(80), 659(70), 794(10), 799(10), 920(60), 926(IP),
 930(80), 959(60), 1085(00), 1151(50), 1285(80)
- Bentonites: 1130(IP)
- Character: 324(00), 925(80), 926(IP)
- Claims: 1168(00)
- Dating Methods: 856(70)
- Depositional Environment: 1130(70)
- Development: 642(50), 707(70)
- Development Potential: 293(70)
- Drilling: 306(70)
- Economics: 535(70)
- Environmental Impact: 1235(80)
- General: 3(80), 6(70), 11(70), 13(70), 277(60), 285(50), 302(40),
 316(70), 322(00), 323(00), 367(60), 394(40), 458(70),
 459(70), 469(70), 490(1890), 524(70), 587(70), 641(50),
 669(50), 726(1880), 727(1890), 804(70), 805(IP),
 813(70), 836(00), 845(20), 836(00), 875(10), 858(80),
 917(80), 985(IP), 1090(7C), 1296(60)
- Geologic Age Dating: 856(70)
- Geology: 215(-), 268(40), 283(50), 294(70), 327(80), 329(10),
 345(00), 354(10), 528(1890), 529(1890), 585(40),
 794(10), 925(80), 930(80), 1085(00), 1125(40), 1334(00)

KENAI COAL FIELD contd.

- ✓ History: 290(70), 603(10), 858(80), 859(00), 904(60), 925(80), 1151(50)
- ✓ Hydrogenation Potential: 1151(50)
- ✓ Land Status: 504(70)
- ✓ Location: 319(1890), 671(70)
- ✓ Map: 215(-), 222(-), 274(40), 1254(50)
- ✓ Marketing Potential: 252(60)
- ✓ Mining: 176(1860), 327(80), 354(10), 603(10), 666(50), 667(50), 668(50), 1066(20), 1199(70), 1323(60)
- ✓ Mining Costs: 642(50), 1235(80)
- ✓ Outlook: 293(70)
- ✓ Overview: 808(70)
- ✓ Paleobotany: 1130(IP), 1147(80)
- ✓ Palynology: 807(IP)
- ✓ Permits: 228(10-20), 641(50)
- ✓ Petrography: 1264(60)
- ✓ Petrology: 930(80)
- ✓ Production: 228(10-20), 713(60), 935(60), 1235(80)
- ✓ Rank: 269(60), 441(10), 813(70), 1301(70)
- ✓ Reserves: 11(70), 293(70), 441(10), 534(00), 535(70), 671(70), 694(00), 813(70), 935(-), 987(IP), 1235(80), 1264(00)
- ✓ Stratigraphy: 794(10), 1127(70), 1128(70)
- ✓ Structure: 377(80), 659(70), 794(10), 959(60)
- ✓ Tonsteins: 1130(IP)
- ✓ Transportation: 1082(10), 1235(80)
- ✓ Volcanic Ash Partings: 1127(70), 1128(70), 1147(80), 1148(70)
- ✓ Washability: 925(80), 926(IP)

KENAI FORMATION (SC)

- ✓ Analysis: 3(80)
- ✓ Character: 3(80)
- ✓ General: 3(80), 6(70), 11(70), 394(40), 1296(60)
- ✓ Geology: 283(50), 354(10), 528(1890), 529(1890)
- ✓ Mining: 354(10)
- ✓ Reserves: 11(70)
- ✓ Trace Elements: 3(80)

KENNICOTT VALLEY (I)

General: 844(1910)

KETCHIKAN (SE)

Geology: 1314(00)

KETIK RIVER (AR)

Analysis: 270(60)

KIANA OUTCROP (NW)

Analysis: 470(40)
 Geology: 471(40)

KIANA VILLAGE (NW)

Analysis: 12(70), 1007(30), 1166(40)
 General: 985(IP), 1027(30)

KIBBY and EDEN

General: 155(50)
 Mining: 667(50)

KIGALIK RIVER (AR)

Analysis: 270(60), 1005(50)
 General: 1044(30)
 Geology: 270(60)
 Structure: 270(60)

KIKIAKRORAK RIVER (AR)

Analysis: 270(60)
 Geology: 270(60)
 Structure: 270(60)

KILIKTAKGOT CREEK (AR)

Analysis: 1110(60)
 Geology: 1110(60)

KILIUDA BAY (SW)

General: 761(10)
 Geology: 784(10)

KILLIK RIVER (AR)

Analysis: 2(60), 470(40), 517(60), 1044(30)
 General: 316(20), 1038(10), 1152(40)
 Geology: 270(60), 418(60), 471(40), 517(60), 710(70), 1044(30)
 Stratigraphy: 270(60), 418(60), 517(60), 1044(30)
 Structure: 270(60), 1044(30)

KILLISNOO (SE)

Analysis: 338(00)
 General: 727(1890), 1106(1880), 1107(1880)
 History: 638(70)
 Locations: 1108(80)
 Mining: 638(70)

KINGS RIVER (SC)
 Analysis: 470(40), 476(10), 478(10), 571(10), 744(10), 790(00),
 791(00), 795(10), 869(00), 870(00), 1314(30)
 Character: 791(00)
 Development: 309(20)
 Development Potential: 578(10)
 General: 415(20), 546(20), 608(00), 724(10), 789(10), 832(20),
 949(20)
 Geology: 471(40), 476(10), 478(10), 481(10), 560(10), 656(20),
 781(00), 795(10), 870(00)
 Mining: 795(10)
 Overview: 607(00)
 Rank: 389(10)
 Stratigraphy: 790(00), 791(00), 795(10), 869(00), 993(-)
 Structure: 389(10), 795(10), 870(00), 993(-)

KIRDS CREEK COAL COMPANY (SC)
 Analysis: 1303(60)
 Geology: 1303(60)
 Reserves: 1303(60)

KIRSOPP SLOPE (SC)
 General: 290(70)
 Geology: 1086(00)
 Stratigraphy: 1086(00)
 Structure: 1086(00)

KISKA (SW)
 General: 490(1890)

KIWALIK BASIN (NW)
 Analysis: 493(80)
 Geology: 493(80)
 Reserves: 492(80)

KLONDIKE RIVER (I)
 Geology: 446(00)
 Structure: 446(00)

KNIFE BLADE RIDGE AREA (AR)
 Drilling: 967(50)

KNIK ARM (SC)
 Exploration: 1103(10)
 General: 13(70), 394(40)
 Reserves: 509(70)

KNOB CREEK (SC)

Closure: 980(50)
 Development Potential: 582(80)
 General: 284(50)
 Map (geol.): 275(60)
 Marketing Potential: 582(80)

KNOB CREEK COAL COMPANY

Drilling: 705(50)
 Geology: 1303(60)

KOBUK RIVER (NW)

Analysis: 12(70), 74(20), 269(60), 294(70), 329(10), 413(20),
 493(80), 585(40), 1044(30)
 General: 195(40), 277(60), 294(70), 546(20), 777(20), 956(10),
 985(IP), 1162(50), 1250(00)
 Geology: 329(10), 493(80), 567(70), 585(40), 604(60), 1044(30),
 1150(50), 1189(70)
 Mining: 356(20), 413(20), 801(60), 1027(30), 1043(10), 1044(30),
 Overview: 984(70)
 Production: 1027(30)
 Rank: 269(60), 441(10), 813(70)
 Reserves: 492(1890), 853(70), 987(IP)

KODIAK ISLAND (SC)

Analysis: 338(00), 478(10), 782(00), 1226(10), 1244(10)
 General: 13(70), 339(00), 359(00), 490(1890), 491(1890), 813(70)
 Geology: 338(00), 604(60), 761(10), 784(10), 819(1890), 1085(00)
 Mining: 739(10), 801(60)
 Rank: 441(10)
 Stratigraphy: 255(00)

KOGOLUKTUK RIVER (NW)

Analysis: 493(80), 631(10)
 General: 813(70), 1038(10)
 Geology: 493(80)

KOGOSUKRUK RIVER (AR)

Analysis: 270(60)
 Geology: 270(60)
 Structure: 270(60)

KOKOLIK RIVER (AR)

Analysis: 269(60), 270(60), 388(70), 419(60), 493(80), 637(60),
 1005(50), 1121(60), 1235(80)
 Character: 595(30)
 Coking Potential: 1121(60), 1307(60), 1309(60)
 Drilling: 338(70), 1309(60)

KOKOLIK RIVER contd.

Environmental Impact: 1235(80)
 General: 1044(30)
 Geology: 384(70), 386(70), 388(70), 419(60), 493(80), 710(70)
 Location: 384(70), 388(70)
 Mining Cost: 1235(80)
 Production: 1235(80)
 Rank: 269(60), 595(30), 1309(60)
 Reserves: 384(70), 424(70), 710(70), 1235(80), 1333(70)
 Structure: 269(60), 419(60)
 Transportation: 1235(80)

KOLMAKOF

General: 338(00)

KOOTZNOHOO INLET (SE)

Analysis: 269(60), 338(00), 585(40), 600(10)
 Development: 269(60), 1024(30), 1341(00)
 Exploration: 1340(00)
 General: 277(60), 362(20), 490(1890), 985(IP), 1025(30),
 1048(10), 1150(50)
 Geology: 338(00), 585(40), 737(60)
 History: 600(10), 858(80)
 Mining: 816(1870), 859(00)
 Rank: 269(60), 813(70)
 Reserves: 813(70)

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Economics: 466(IP)
 General: 13(70)
 Power Generation: 466(IP)

KOUGAROK

General: 195(40)

KOYUK RIVER (NW)

Analysis: 493(80), 1042(10)
 General: 195(40), 269(60), 412(20), 585(40), 631(10), 633(60),
 813(70), 1019(00)
 Geology: 493(80), 1042(10)
 History: 858(80)
 Mining: 357(20), 1066(20)
 Reserves: 492(80)

KOYUKUK RIVER (SC)

Analysis: 339(00), 446(00), 447(00), 478(10), 631(10), 775(00),
 975(00), 999(00), 1044(30), 1224(10), 1226(10),
 1244(10)

Character: 339(00)
 General: 294(70), 338(00), 342(1890), 359(00), 585(40), 984(70),
 985(IP), 1250(00)
 Geology: 338(00), 345(00), 447(00), 585(40), 775(00)
 Rank: 813(70)
 Reserve: 987(IP)

KUGRUA INLET (AR)
 Analysis: 2(60), 1235(80)
 Environmental Impact: 1235(80)
 Geology: 710(70)
 Mining Costs: 1235(80)
 Reserves: 1235(80)
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KUGRUA RIVER (AR)
 Analysis: 270(60), 637(60)
 Geology: 270(60)
 Reserves: 424(70)
 Structure: 270(60)

KUGRUK MINE (NW)
 Analysis: 470(40), 962(70)
 Geology: 471(40)
 Mining: 471(40), 985(IP)
 Petrography: 962(70)

KUGRUK RIVER (NW)
 Analysis: 195(40), 412(20), 413(20), 493(80), 646(00), 1124(40)
 Dredging: 1066(20)
 General: 269(60), 631(10), 777(20), 956(10), 1021(20), 1029(30)
 Geology: 467(70), 493(80), 645(10), 646(00), 839(00)
 History: 858(80)
 Mining: 310(20), 335(20), 356(20), 412(20), 571(10), 633(20),
 1027(30), 1124(40)
 Rank: 441(10), 813(70)
 Reserves: 813(70), 839(00)
 Stratigraphy: 645(10)
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KUIU ISLAND (SE)
 General: 490(1890), 491(1890), 726(1880), 727(1890), 985(IP),
 1109(1880)
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 Analysis: 269(60), 270(60), 470(40), 637(60), 903(70), 991(40),
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Character: 925(80)
 Development: 1030(30)
 Environmental Impact: 1235(80)
 Exploration: 991(40)
 General: 338(00), 917(80), 1029(30), 1031(30), 1032(30), 1034(30),
 1035(40)
 Geology: 270(60), 386(IP), 471(40), 710(70)
 History: 858(80)
 Marketing: 1028(30)
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 Mining Costs: 1235(80)
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 Palynology: 513(50)
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 Reserves: 424(70), 710(70), 1235(80)
 Structure: 269(60), 270(60)
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Analysis: 269(60), 270(60), 344(20), 387(60), 388(70), 419(60),
 470(40), 585(40), 637(60), 743(50), 868(20), 959(60),
 962(70), 1044(30), 1124(40), 1235(80), 1309(60),
 1312(60)
 Carbonization: 734(60), 1312(60)
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 Geology: 13(70), 270(60), 344(20), 384(70), 386(IP), 388(70),
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 1040(20), 1044(30)
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 Mining: 731(IP), 1124(40)
 Mining Costs: 1235(80)
 Petrography: 962(70), 1264(60)
 Production: 1235(80)
 Rank: 269(60), 1312(60)
 Reserves: 384(70), 387(60), 424(70), 710(70), 743(50), 1235(80),
 1264(60), 1302(60), 1333(70)
 Stratigraphy: 743(50), 868(20), 1124(40), 1309(60)

KUKPOWRUK contd.

Structure: 270(60), 731(IP), 868(20), 1302(60), 1307(60),
1040(20), 1044(30)
Transportation: 1235(80), 1312(60)
Washability: 920(60)
Weathering: 1312(60)

KUKPUK RIVER (AR)

Analysis: 15(70)
Geology: 15(70)
Rank: 15(70)
Washability: 15(70)

KUPREANOF ISLAND (SE)

General: 362(20), 469(70), 885(IP), 1090(10)
Geology: 338(00), 1343(00)
Rank: 441(10)

KUPUK RIVER

Geology: 445(00), 448(00), 1110(60)

KURKPAK (I)

Distribution: 319(1890)

KURUPA RIVER (AR)

Analysis: 270(60)

KUSHTAKA FORMATION (SC)

Analysis: 585(40), 780(00)
Geology: 512(10), 585(40), 780(00), 986(70)
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Analysis: 12(70), 294(70), 329(10), 470(40)
General: 269(60), 294(70), 258(10), 394(40), 984(70), 1250(00)
Geology: 329(10), 338(00), 406(20), 471(20), 672(20), 673(20),
1014(70), 1016(IP), 1037(10), 1039(20)
Rank: 441(10)
Reserves: 441(10)
Structure: 1014(70), 1016(IP), 1039(20)
Transportation: 1082(10)

KUSTAKA LAKE AREA

Analysis: 470(40), 744(10), 778(00), 782(00), 1244(10)
General: 163(50), 280(50), 548(10), 787(00)
Geology: 461(-), 471(40), 475(10), 479(10), 484(10), 744(10),
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 350(10), 367(60), 422(10), 441(10), 457(70), 458(70),
 459(10), 479(10), 503(IP), 504(70), 514(20), 517(IP),
 530(10), 568(10), 569(10), 618(40), 619(40), 634(00),
 647(70), 648(50), 688(10), 709(10), 723(70), 786(10),
 850(10), 877(20), 879(20), 881(30), 882(30), 883(30),
 946(80), 947(20), 948(20), 984(70), 985(IP), 992(70),
 1091(10), 1092(10), 1222(10), 1224(10), 1226(10),
 1227(10), 1229(10), 1233(10), 1238(10), 1240(00),
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General: 186(10)

LEASING UNIT NO. 14

General: 186(10)

LEASING UNIT NO. 20

General: 186(10)

LEASING UNIT No. 28

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See also LEASES/PERMITS

General: 28(60), 177(10), 199(10), 262(10), 264(00), 300(IP),
313(IP), 322(00), 325(00), 329(10), 331(10), 334(20),
415(20), 420(10), 422(10), 426(10), 427(10), 441(10),
456(70), 474(70), 478(10), 503(IP), 504(70), 517(IP),
523(10), 530(10), 576(10), 597(70), 611(30), 616(40),
617(40), 618(40), 619(40), 620(40), 621(50), 622(50),
627(70), 628(00), 634(00), 639(50), 640(50), 642(50),
652(70), 660(00), 661(00), 662(00), 663(00), 687(10),
688(10), 707(10), 708(10), 709(10), 714(10), 719(10),
723(70), 739(10), 773(70), 774(40), 797(70), 804(70),
834(20), 855(IP), 858(80), 872(10), 877(20), 879(20),
881(30), 882(30), 883(30), 906(IP), 949(20), 952(10),
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LEGISLATION AFFECTING COAL MINING - General contd.

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 1222(10), 1224(10), 1225(10), 1226(10), 1227(10),
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Coal Fires: 1209(50-70), 1295(50)

Development: 562(-), 1292(50)

Development Potential: 938(70)

Economics: 562(-)

Environmental Impact: 1235(80)

Exploration: 1292(50)

General: 8(70), 269(60), 285(50), 332(10), 494(20), 641(50),
 985(IP), 1025(30),

Geology: 267(50), 327(80), 335(20), 390(10), 398(10), 400(10),
 471(40), 505(IP), 562(-), 585(40), 704(40), 774(40),
 899(00), 1282(70), 1296(60)

History: 858(80), 1295(50)

Hydrogenation: 1151(50)

Map (geol.): 1284(70)

Marketing Potential: 562(-)

LIGNITE CREEK contd.

Mining: 357(20), 471(40), 505(IP), 562(-), 1295(50)
 Mining Costs: 1235(80)
 Permits: 641(50)
 Photography: 562(-)
 Production: 505(IP), 959(60)
 Reserve: 725(80), 938(70), 1282(70), 1292(50)
 Stratigraphy: 1169(20)
 Structure: 267(50), 390(10), 505(IP), 585(40), 704(40), 899(00),
 959(60), 1292(50)
 Transportation: 1292(50), 1337(70)
 Utilization: 562(-)
 Washability: 924(70)

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LISBURNE - CORWIN COAL COMPANY

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LITTLE COAL CREEK (SC)

General: 1141(30)

LITTLE GOLD CREEK (I)

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LITTLE GRAND CREEK

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LITTLE STONY CREEK (SC)

General: 500(70)

LITTLE SUSITNA (SC)

Analysis: 269(60), 870(00)
 General: 186(10), 476(10)
 Geology: 287(50), 394(40), 870(00)
 History: 193(10)
 Mining: 777(20), 889(IP), 984(70), 985(IP)
 Overview: 808(70), 984(70)

LITTLE SUSITNA contd.

Production: 269(60), 956(10), 985(IP)

Reserves: 889(IP), 987(IP)

Stratigraphy: 287(50), 781(10)

Structure: 287(50), 870(00)

LITTLE TONZONA RIVER (SW)

Analysis: 896(70), 925(80), 930(80), 1015(70)

Character: 925(80)

General: 985(IP)

Geology: 925(80), 930(80), 1016(IP)

History: 925(80)

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Stratigraphy: 917(80), 930(80), 1015(70)

Structure: 896(70), 917(80), 1015(70), 1016(IP),

Washability: 925(80)

LITUYA BAY (SE)

Analysis: 760(70)

General: 362(20), 490(1890), 491(1890), 1018(30)

Geology: 338(00), 760(70)

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LIZ - A SYNCLINE (AR)

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LOCHWOOD HILLS (NW)

General: 813(70)

Reserves: 1038(10)

LONE CREEK (SC)

Geology: 910(80)

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Transportation: 1162(50)

LOUDEN

Analysis: 582(80), 1041(10)

Geology: 582(80)

Stratigraphy: 1041(10)

LYNN MINE

Analysis: 1067(20)
 Mining: 357(20), 494(20), 495(20)
 Production: 1067(20)

MAITLAND BED

Analysis: 415(20), 573(20)
 Geology: 416(20), 781(10)
 Mining: 416(20), 781(10)
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MANGOAK RIVER (NW)

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 Geology: 493(80)
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MARGUERITE CREEK (I)

Analysis: 786(10)
 Geology: 786(10)
 Structure: 786(10)

MARKETING POTENTIAL (SINCE 1950)

(See also DEVELOPMENT POTENTIAL and ECONOMIC POTENTIAL)

General: 357(70), 409(70), 486(70), 511(70), 520(IP), 656(70),
 632(70), 692(70), 701(70), 706(IP), 721(IP), 742(IP),
 798(70), 808(70), 845(IP), 854(70), 857(IP), 895(IP),
 906(IP), 960(IP), 961(IP), 923(60), 961(IP), 976(IP),
 979(70), 994(IP), 1083(70), 1235(80), 1258(80), 1336(IP)
 AR: 252(60), 710(70), 731(IP), 833(70), 1140(70)
 I: 580(30), 959(00), 979(70), 1011(80), 1026(30), 1270(IP),
 1274(80)
 SC: 252(60), 308(IP), 509(70), 545(70), 721(IP), 863(70), 887(70),
 888(70), 902(IP), 923(60), 959(60), 960(IP), 979(70),
 1058(70), 1059(70), 1104(IP)
 Multiple Areas: 301(IP), 582(80), 650(60), 659(70), 804(70),
 946(80), 984(70), 985(IP), 1123(70)

MARKETING POTENTIAL - DOMESTIC (SINCE 1950)

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California: 521(70), 974(70), 975(70), 1346(70)
 General: 11(70), 13(70), 252(60), 424(70), 441(70), 750(70),
 948(70)

MARKETING POTENTIAL - FOREIGN (SINCE 1950)

(See also DEVELOPMENT POTENTIAL and ECONOMIC POTENTIAL)

General: 11(70), 13(70), 252(60), 295(70), 424(70), 706(IP),
 713(60), 749(80), 806(80), 854(70), 895(IP), 902(IP),
 946(80), 959(60)
 Pacific Rim: 73(50), 168(50), 252(60), 567(70), 746(60),
 1149(60), 1339(80)

MARSHALL

General: 588(10), 632(10)

MARTIN BED

Analysis: 415(20), 924(70)
 Geology: 416(20), 781(10)
 Mining: 416(20), 781(10)
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 Structure: 415(20), 416(20), 781(10)
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MARYLAND CONSOLIDATED COAL COMPANY

Coal Survey Plat: 1168(00)

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Financial Statement: 130(20-30)

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Analysis:

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553(20), 571(10), 572(10), 655(10), 795(10), 796(10),
952(10), 1048(10), 1071(20), 1126(10), 1128(10),
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1930-1949: 191(40), 470(40), 585(40), 1006(40)

1950-1969: 236(50), 237(50), 238(50), 239(50), 240(50), 241(60),
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248(60), 249(60), 250(60), 281(60), 284(50), 588(60),
598(60), 625(60), 626(60), 920(60), 959(60), 1005(50),
1297(60), 1299(60), 1300(60), 1303(60)

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1980: 327(80), 930(80), 1235(80)

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Claims: 610(00), 688(10)

Coal Monopoly: 422(10)

Coking Coal: 333(10), 553(20), 609(00), 610(00), 625(60), 626(60),
790(00), 918(70)Development: 178(10), 284(50), 341(20), 415(20), 416(20), 531(10),
549(20), 566(10), 612(40), 613(40), 614(40), 620(50),
621(40), 622(00), 639(50), 640(50), 642(50), 664(10),
670(10), 957(20), 1071(20), 1089(10)

MATANUSKA COAL FIELD contd.

Development Potential: 293(70), 455(70), 560(10), 578(10), 580(30),
582(80), 634(00), 938(70), 952(10), 979(70),
1123(70), 1205(70)

Drilling: 1185(-)

Economics: 535(70)

Environmental Impact: 1235(80)

Equipment: 178(10)

Exploration: 178(10), 284(50), 309(20), 499(60), 566(10),
620(40), 621(40), 670(10), 876(20), 1091(10)

General: 4(20), 13(70), 175(30), 186(10), 190(10), 197(50),
201(10), 225(20), 262(10), 277(60), 285(50), 290(70),
295(70), 302(20), 312(20), 326(00), 332(10), 344(20),
346(60), 348(00), 349(00), 359(00), 407(10), 410(70),
420(10), 469(70), 494(20), 512(10), 514(20), 524(70),
546(20), 552(-), 608(00), 612(40), 618(40), 621(50),
622(50), 623(50), 624(50), 641(50), 663(00), 804(70),
805(IP), 807(IP), 819(1890), 832(00), 836(00), 845(20),
858(80), 875(10), 877(20), 878(20), 879(20), 880(20),
881(30), 882(30), 883(30), 955(10), 1017(20), 1018(20),
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1250(00)

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414(20), 416(20), 471(40), 458(70), 459(70), 476(10),
478(10), 481(10), 498(50), 553(20), 560(10), 576(10),
580(30), 585(40), 587(70), 609(00), 610(00), 656(20),
704(40), 775(00), 781(10), 790(00), 795(10), 800(50),
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Marketing Potential: 252(60), 293(70), 582(80)

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 358(10), 383(70), 394(40), 400(10), 406(20), 458(70),
 459(70), 471(40), 494(20), 505(IP), 553(20), 580(30),
 585(40), 587(70), 704(40), 736(60), 774(40), 786(10),
 792(20), 924(70), 930(80), 1025(30), 1067(20), 1150(50),
 1291(50)
 History: 457(70), 553(20), 925(80), 1151(50), 1271(70)
 Hydrogenation Potential: 230(50), 1151(50)
 Land Status: 504(70)
 Leases: 228(10-20), 514(20), 614(50), 1071(20)
 Location: 671(70), 1291(50)
 Marketing-Domestic: 189(10), 1169(20)
 Marketing Potential: 293(70), 553(20), 582(80), 746(60)
 Mining: 348(00), 383(70), 402(30), 458(70), 469(70), 505(IP),
 620(40), 666(50), 668(50), 713(60), 959(60), 984(70),
 985(IP), 1029(30), 1065(70), 1066(20), 1075(40), 1078(40),
 1081(20), 1090(10), 1133(30), 1134(30), 1135(30),
 1136(30), 1199(70), 1271(70)
 Mining Conditions: 642(50)
 Mining Costs: 457(70), 1235(80)
 Nenana Public Utilities: 122(20+), 124(20-40)
 Overview: 202(40-50), 779(10), 808(70), 925(80)
 Permits: 228(10-20)
 Petrography: 1262(60), 1264(60)
 Petrology: 930(80)
 Power Generation: 189(10), 307(50)
 Power Plant: 307(50)
 Preparation: 460(70)
 Production: 228(10-20), 260(40), 309(20), 458(70), 459(70),
 494(20), 505(IP), 514(20), 713(60), 746(60),
 956(10), 959(60), 984(70), 985(IP), 1067(20),
 1071(20), 1150(50), 1205(70), 1206(70)
 Rank: 341(20), 441(10), 549(20), 813(70), 1301(70)
 Reclamation: 1271(70)
 Reserves: 11(70), 293(70), 358(10), 441(10), 455(70), 504(70),
 535(70), 635(70), 671(70), 702(70), 813(70), 853(70),
 935(-), 957(20), 1150(50), 1169(20), 1205(70), 1235(80)
 Steam Tests: 229(-)
 Stratigraphy: 267(50), 441(10), 459(70), 505(IP), 580(30),
 704(40), 736(60), 1065(70), 1071(20), 1271(70),
 1296(60)
 Structure: 267(50), 459(70), 505(IP), 553(20), 580(30), 585(40),
 587(70), 659(70), 736(60), 786(10), 792(20), 959(60),
 1169(20), 1271(70), 1296(60)

NENANA COAL FIELD contd.

Tar: 598(60), 785(20)
 Transportation: 1235(80)
 Utilization: 1169(20)
 Washability: 460(70), 924(70), 925(80), 926(IP), 927(RIP)

NESKUK LAGOON (NW)

Analysis: 595(30)
 Character: 595(30)

NEVADA CREEK

Analysis: 470(40), 744(10), 782(00)
 Geology: 471(40)
 Stratigraphy: 782(00)
 Washability: 920(60)

NEW BLACK DIAMOND COAL COMPANY

Analysis: 1010(30)
 Correspondence: 100(40)
 General: 232(40)
 Mining: 1031(30)
 Production: 100(40)

NEW BLACK DIAMOND MINE

Analysis: 470(40), 1010(30)
 Correspondence: 100(40)
 Development: 1030(30)
 Development Potential: 582(80)
 General: 232(40), 284(50)
 Geology: 471(40), 585(40)
 Mine Map: 1184(40), 1194(40)
 Mining: 471(40), 1031(30), 1033(40)
 Ownership: 5(30)
 Production: 100(40), 260(40), 1030(30)

NEW MINE (I)

Geology: 774(40)

NIAK (AR)

Analysis: 448(00), 1110(60)
 Geology: 448(00), 1110(60)
 Mining: 985(IP)
 Reserves: 1249(70)
 Stratigraphy: 448(00)
 Structure: 448(00)

NIAKOGON TONGUE (AR)
 Analysis: 270(60)

NIKOLAI CREEK (SC)
 Reserves: 509(70)

NIKOLSHI (SW)
 General: 490(1890)

NINILCHIK
 Analysis: 281(60)
 Coal Fires: 305(70), 1119(70), 1204(70), 1214(70)
 Dating Methods: 1131(70)
 General: 491(90), 622(50)
 Petrography: 1131(70)
 Volcanic Ash Partings: 1131(70)

NINULUK BLUFFS (AR)
 Geology: 517(60)
 Structure: 517(60)

NISHO-IAWI
 Exploration: 732(70)

NIZINA (SC)
 Geology: 846(10)

NOATAK RIVER (NW)
 Analysis: 493(80)
 Distribution: 1038(10)
 Geology: 493(80)

NOHATATILIN
 Analysis: 447(00)
 Geology: 447(00)

NOME (SW)
 General: 13(70), 422(10), 1223(00)
 Power, general: (Econ) 446(IP)

NORTH AMERICAN TRADING and TRANSPORTATION COMPANY
 General: 321(1890)

NORTH PACIFIC MINING and TRANSPORTATION COMPANY (SC)
 General: 283(50), 875(10)

NORTH SLOPE COAL MINE

General: 804(70)

NORTHERN EXPLORATION and DEVELOPMENT COMPANY

General: 554(10)

NORTHERN IMPROVEMENT COMPANY

Coal Survey Plat: 1168(00)

General: 422(10), 751(10), 1046(10)

NORTHWESTERN ALASKA (See also Locations in the Area)

General: 750(70)

Petrology: 922(80)

Reserves: 1150(50)

NORTHWESTERN COMMERCIAL COMPANY

General: 1224(10)

NORTON SOUND (NW)

Analysis: 413(20), 493(80)

Distribution: 893(70)

General: 316(20), 491(90), 777(20), 1029(30), 1041(10)

Geology: 413(20), 493(80)

History: 858(80)

Rank: 813(70)

Structure: 413(20), 893(70)

NOWITNA

General: 828(10), 829(30)

NULATO (I)

Analysis: 327(80), 338(00), 417(60), 441(10), 446(00), 447(00),
470(40), 582(80), 926(IP), 1042(10)

Character: 926(IP)

Development Potential: 634(00)

General: 394(70), 469(70), 491(1890), 584(70), 585(40), 804(70)
985(IP)Geology: 327(80), 338(00), 417(60), 446(00), 447(00), 471(40),
582(80), 1018(30), 1042(10), 1054(1890)

Mining: 466(IP), 859(00)

Power Generation Potential: 466(IP)

Rank: 441(10), 813(70)

Reserves: 634(00), 987(IP)

NUNWAK ISLAND

General: 269(60), 338(00), 358(10), 441(10), 490(1890),
984(70), 985(IP), 1055(00), 1090(10), 1307(60)

NUTZOTIN RANGE

Geology: 391(10), 399(10)

OBER CREEK

Washability: 920(60)

O'BRIEN CREEK

Analysis: 796(10), 1244(10)
General: 395(20)
Geology: 656(20), 796(10), 993(-)
Stratigraphy: 656(20), 796(10)
Structure: 656(20), 796(10)

OHIO CONSOLIDATED COMPANY

Coal Survey Plat: 1168(00)
Mining: 1046(10)

OLIVER LADUKE and ASSOCIATES LEASE

Character: 186(10)

OOLAMNAGAVIK RIVER (AR)

Analysis: 270(60)
Geology: 270(60)
Structure: 270(60)

OREGON COAL CLAIM

General: 754(10)

ORLOVA (SW)

General: 1085(00)

OUMALIK (AR)

Drilling: 964(50)

PACIFIC STEAM WHALING COMPANY

Mining: 448(00)

PAK RIVER

Analysis: 493(80)
Geology: 493(80)

PALEOBOTANY

AR: 445(00), 448(00), 513(50), 517(60), 861(60), 968(50),
 999(00), 1330(IP)
 I: 354(10), 380(10), 393(20), 1296(20)
 SC: 192(60), 794(10), 795(10), 818(00), 856(70), 979(1890),
 1334(60)
 SE: 737(60), 1115(00), 1343(00)
 General: 513(50), 694(00), 807(IP), 1018(30)
 Multiple Areas: 490(1890), 491(1890)

PALEONTOLOGY

AR: 448(00), 517(60), 968(50)
 L: 516(10)
 SC: 394(40), 407(10), 794(10), 795(10), 856(70), 1086(00)
 SW: 501(70)
 Multiple Areas: 491(1890)

PALISADES

Analysis: 447(00)
 General: 338(00), 584(70)
 Geology: 446(00), 447(00)
 Stratigraphy: 446(00)
 Structure: 447(00)

PASS CREEK

Geology: 407(10)

PAULOFF BAY

General: 255(00), 491(90)
 Rank: 441(10)

PEARL BAY (AR)

Analysis: 2(60), 470(40), 522(40), 990(40), 991(40), 1175(40)
 Exploration: 991(40), 1175(40)
 General: 1044(30)
 Geology: 471(40), 522(40), 990(40), 1175(40)
 Reserves: 991(40), 1174(40)
 Structure: 1175(40)

PERMAFROST

General: 731(IP), 750(70), 865(IP), 898(70), 987(IP), 1235(80),
 1258(80)

PERMITS, See LEASES/PERMITS

PERRY CREEK (NW)
 Analysis: 493(80)
 Geology: 493(80)

PETERS CREEK (I)
 Analysis: 825(10)
 General: 407(10), 410(70)
 Hydrologic Reconnaissance: 1002(80)
 Stratigraphy: 271(60)

PETERSON COAL COMPANY
 General: 95(20)

PETERSON MINE
 General: 494(20)
 Mining: 495(20)

PETROGRAPHY

AR: 918(70), 921(80), 930(80), 1267(70)
 I: 625(60), 1262(60), 1264(60)
 SC: 625(60), 626(60), 918(70), 1131(70), 1262(60), 1264(60)
 General: 513(50), 874(50), 1266(70)
 Multiple Areas: 962(70), 1293(60)

Petrology

NW: 922(80)
 Multiple Areas: 930(80)

PHILBRICK and FOSTER
 Mining: 255(00)

PHILIP SMITH MOUNTAIN (AR)
 General: 316(70)

PHOTOGRAPHS

General: 50(20), 610(00), 656(20), 700(00-10), 1012(20),
 1069(30), 1086(00), 1119(70), 1152(40), 1175(40)

PICKART MINE (I)

Analysis: 417(60), 447(00), 582(80), 1041(10)
 General: 584(70), 984(70)
 Geology: 417(60), 446(00), 447(00), 582(80), 1041(10)
 History: 638(70)
 Mining: 447(00), 638(70), 859(00), 985(IP)
 Structure: 446(00), 447(00), 1307(60)

PICKETT MINE

General: 339(00)

PINNACLE PASS (SE)

General: 977(1890)

Paleobotany: 977(1890)

PIONEER COAL COMPANY

Analysis: 74(20)

PIONEER COAL MINING COMPANY

General: 157(50)

Mine Map: 864(50)

PIONEER MINE

Analysis: 2(60), 232(40), 236(50), 237(50), 822(30)

Development: 1030(30)

General: 21(50), 284(50), 668(50), 827(30)

Geology: 232(40)

History: 638(70)

Marketing: 1028(30), 1030(30)

Mining: 638(70), 661(50), 669(50), 859(00), 1025(30), 1026(30),
1028(30), 1029(30), 1323(60)

PITNEGEA RIVER AREA (AR)

Analysis: 270(60)

General: 1167(40)

Geology: 445(00)

PITTACK COAL CLAIM

General: 678(10)

PITTSBURG CONSOLIDATED COAL COMPANY (SC)

Claim: 601(10)

General: 422(10)

Mining: 1046(10)

PLACER AMEX

Exploration: 732(70)

General: 293(70), 520(IP), 721(IP), 860(IP), 890(70)

Mining: 887(70), 888(70), 902(IP), 935(80)

- POINT CAMBELL (SC)
General: 791(00)
Mining: 354(10)
- POINT GARDINER (SE)
General: 859(00), 1342(00)
Geology: 338(00), 490(1890)
History: 858(80)
- POINT HOPE (AR)
Analysis: 12(70), 327(80), 493(80)
Character: 468(70)
Distribution: 637(60)
General: 469(70)
Geology: 327(80), 445(00), 493(80)
Mining: 327(80), 1167(40)
Reserves: 468(70), 492(80)
Stratigraphy: 327(80)
- POINT LAY (AR)
Analysis: 419(60), 493(80)
General: 492(80), 804(70), 1078(40)
Geology: 493(80)
Mining: 1124(40), 1166(40)
Reserves: 492(80)
- POINT MACKENZIE (SC)
Reserves: 509(70)
- POINT SULLIVAN
General: 490(1890)
Geology: 338(00)
- POINT VANCOUVER (SW)
General: 490(1890)
- POINT WORONZOF
General: 394(40)
- POKER FLAT (I)
Analysis: 924(70)
Washability: 924(70)

POLYCHROME (I)

Analysis: 704(40)
 General: 392(30)
 Geology: 704(40)
 Stratigraphy: 704(40)
 Structure: 704(40)

POORMAN CREEK (I)

Analysis: 823(30)
 General: 584(70), 813(70), 828(10)
 Geology: 823(30)
 Mining: 823(30), 829(20)

POPOVITCH CREEK (I)

Analysis: 786(10)
 Geology: 786(10)
 Structure: 786(10)

PORT CAMDEN (SE)

General: 490(1890), 1342(00)
 Geology: 338(00), 1343(00)

PORT CHATHAM

General: 302(40), 362(20)
 Mining: 859(00)

PORT GRAHAM (SC)

Analysis: 12(70), 338(00), 441(10), 478(10), 571(10), 744(10),
 775(00), 782(00), 1085(00), 1226(10), 1244(10)
 General: 55(00), 290(70), 294(70), 302(40), 339(00), 354(10),
 359(00), 422(10), 490(1890), 491(1890), 603(10),
 726(1880), 777(20), 819(1890), 956(10), 984(70),
 1109(1880)
 Geology: 471(40), 775(00), 794(10), 1085(00), 1086(00), 1334(60)
 History: 460(70), 858(80)
 Mining: 329(10), 463(70), 794(10), 859(00), 985(IP)
 Production: 794(10), 985(IP)
 Stratigraphy: 1086(00)
 Structure: 794(10), 1086(00)

PORT MOLLER (SW)

Analysis: 600(10), 727(1890), 728(1890), 1102(70)
 Geology: 501(70)
 History: 600(10), 858(80)

PORTAGE BAY (SW)
General: 819(1890)

PORTLAND ALASKA ANTHRACITE COAL COMPANY
Coal Survey Plats: 1168(00)
General: 380(10), 422(10), 530(10), 714(10), 1046(10)

PORTLAND COAL CLAIM
General: 679(10), 912(10)

POWER GENERATION

Anchorage: 76(60)
Barrow: 315(70), 651(70)
Beluga: 815(70), 863(70), 887(70), 888(70), 902(IP), 960(IP)
Central Alaska: 907(30), 908(60), 1011(80)
Chicago Creek: 646(00)
Development Potential: 1123(70)
Economics: 466(IP)
Fairbanks: 76(60), 307(50), 497(20), 1052(IP)
General: 263(70), 293(70), 466(IP), 486(IP), 511(20), 520(IP),
597(70), 602(70), 659(70), 691(IP), 701(70), 706(IP),
797(70), 798(70), 805(IP), 903(70), 906(IP), 907(30),
908(60), 961(IP), 976(IP), 984(70), 994(IP), 1057(70),
1336(IP)
Healy: 908(60), 1270(IP)
Japan: 854(70), 857(IP)
Nenana Coal Field: 189(10), 307(50), 1011(80)
Southcentral: 1011(80)
Sutton: 908(60)
Villages: 582(80)

POWER PLANTS See Also (ANCHORAGE MILITARY POWER PLANTS)

Air Pollution: 815(70)
Barrow: 903(70)
Beluga: 815(70)
California: 975(70)
Central Alaska: 907(30), 908(60)
Environmental Impact: 1248(40)
F.E. Power Plant: 1023(30)
Fly Ash: 745(70)
General: 263(70), 474(70), 1057(70), 1336(IP)
Healy: 43(60), 147(40-50), 166(50), 886(60)
Nenana Coal Fields: 307(50)
Offshore: 701(70)
Puget Sound: 960(IP)

POWERS CREEK

Analysis: 470(40), 744(10)

Geology: 471(40), 484(10)

PREMIER COAL GROUP

Analysis: 1007(30)

General: 1031(30)

Geology: 458(70), 459(70)

Mining: 1029(30)

PREMIER MINE (SC)

Analysis: 2(60), 58(20), 60(20), 61(20), 232(40), 237(50),
238(50), 239(50), 470(40), 588(60), 904(60), 924(70),
962(70), 1278(30), 1280(30), 1313(30)

Closure: 140(20-30), 1076(40)

Coal Fires: 232(40)

Correspondence: 60(20)

Development Potential: 582(80)

Exploration: 1313(30)

Flood: 61(20), 141(20-30)

Freight Rates: 63(20)

Geology: 232(40), 471(40), 585(40), 703(50), 704(40), 1255(-),
1303(60)

Inventory: 48(20)

Litigation: 48(20)

Marketing Potential: 582(80)

Mine Map: 864(50), 1184(40), 1219(40)

Mining: 471(40), 518(70), 666(50), 845(20), 889(IP), 985(IP),

1022(20), 1024(30), 1025(30), 1076(40), 1078(40), 1237(20)

Ownership: 135(20)

Petrography: 962(70)

Preparation: 588(60)

Production: 65(30), 260(40), 985(IP)

Rank: 1278(30)

Receivership: 141(20-30)

Reopening: 49(40)

Reserves: 1303(60)

Steam Tests: 1280(30)

Stratigraphy: 704(40)

Structure: 704(40), 899(IP)

Washability: 920(60), 924(70), 588(60)

PREPARATION

I: 625(60)

SC: 588(60), 589(50), 590(60), 592(-), 625(60), 888(70)

PREPARATION contd.

General: 302(40), 597(70), 805(IP), 889(IP), 928(70), 976(IP),
979(70)
History: 460(70)

PRINCE CREEK FORMATION (AR)

Analysis: 270(60)
General: 517(60)
Geology: 270(60), 419(60), 710(70)
Stratigraphy: 270(60)
Structure: 270(60)

PRINCE OF WALES ISLAND (SE)

General: 362(20), 726(1880), 985(IP), 1109(1880)

PRINCE WILLIAM SOUND (SC)

Coaling Station: 970(00)

PRODUCTION - REGIONAL

AR: 252(60), 419(60), 455(00), 866(00), 917(80)
I: 260(40), 267(50), 330(10), 446(00), 458(70), 462(70),
494(20), 505(IP), 580(30), 745(70), 799(70), 827(30),
901(00), 934(50), 938(70), 959(60), 1011(80), 1270(IP),
1274(80)
NW: 633(20)
SC: 182(20), 190(10), 232(40), 252(60), 255(00), 260(40),
267(50), 285(50), 302(40), 330(10), 389(10), 410(70),
415(20), 416(20), 458(70), 487(70), 507(80), 512(10),
514(20), 524(70), 548(10), 563(20), 566(10), 588(60),
594(20), 622(50), 649(60), 655(10), 704(40), 716(50),
733(70), 769(50), 770(10), 776(10), 794(10), 799(70),
803(10), 825(10), 832(20), 875(10), 887(70), 904(60),
917(80), 934(50), 938(70), 949(20), 959(60), 978(40),
1011(80), 1013(20), 1084(80), 1140(70), 1142(30), 1146(60),
1303(60)
SW: 255(00), 1085(60)
General: 190(10), 309(20), 310(20), 311(20), 312(20)
314(70), 394(40), 460(70), 459(70), 484(70), 525(70),
582(80), 602(70), 611(30), 650(60), 692(70), 706(IP),
709(10), 773(70), 775(60), 902(IP), 946(80), 947(20),
1150(50), 1232(10), 1236(80)
Multiple Areas: 332(10), 357(20), 478(10), 535(70), 659(70),
668(50), 694(00), 713(60), 746(60), 777(20),
804(70), 876(20), 882(30), 956(10), 984(70),
985(IP), 1030(30), 1193(-), 1233(10), 1235(80),
1258(80)

PRODUCTION - YEARLY

1890-1909: 347(00), 348(00), 349(00), 607(00), 728(1890),
859(00)

1910-1929: 180(10), 329(10), 333(10), 334(20), 335(20), 344(20),
350(10), 351(10), 352(10), 354(10), 356(20), 553(20),
845(20), 876(20), 877(20), 878(20), 879(20), 880(20),
881(30), 1021(20), 1022(20), 1048(10), 1066(20),
1067(20), 1068(20), 1079(20), 1081(20), 1090(10),
1092(10), 1093(10)

1930-1949: 90(40), 613(40), 614(40), 615(40), 616(40), 617(40),
618(40), 619(40), 620(40), 621(40), 883(30), 1023(30),
1024(30), 1025(30), 1026(30), 1027(30), 1028(30),
1029(30), 1030(30), 1031(30), 1032(30), 1033(40),
1034(30), 1035(40), 1036(40), 1076(40), 1077(40),
1078(40), 1132(30)

1950-1969: 20(50), 27(60), 32(60), 37(60), 73(50), 84(50),
151(50), 158(50), 162(50), 164(50), 167(60), 170(50),
174(50), 622(50), 623(50), 624(50), 666(50), 980(50),
1063(50), 1064(50), 1178(50)

1970: 16(70), 17(70), 652(70), 750(70)

1980: None

PROSPECT (I)

Analysis: 862(40)

PRUDHOE BAY (AR)

Analysis: 304(70)
Geology: 304(70)
Stratigraphy: 304(70)

PTARMIGAN CREEK (I)

Geology: 391(10), 399(10)

PURDY CLAIM TUNNEL

Geology: 714(10)
Mining: 714(10)

PURINTON CREEK (SC)

Analysis: 796(10), 1244(10)
General: 1021(20)
Geology: 796(10)
Rank: 951(30)
Stratigraphy: 796(10), 869(00), 951(30)
Structure: 791(00), 796(10), 869(00)

QUARTZ CREEK

Analysis: 823(30)
 General: 405(30), 584(70), 828(10), 829(20)
 Geology: 404(20), 823(30)

QUEENS CREEK

Analysis: 470(40), 744(10), 778(00), 780(00), 782(00)
 Geology: 471(40), 561(-), 778(00), 780(00)
 Stratigraphy: 778(00), 782(00)
 Structure: 778(00)

RAILROAD, See ALASKA RAILROAD

RAMPART (I)

Analysis: 12(70), 446(00), 447(00), 478(10), 585(40)
 General: 277(60), 338(00), 469(70), 584(70), 985(IP), 1169(20)
 Geology: 354(10), 446(00), 447(00), 515(10), 516(10), 585(40)
 Mining: 354(10), 801(60), 859(00)
 Rank: 269(60), 813(70)

RAWSON COAL COMPANY

Coal Leases/Permits: 1071(20)
 Production: 1313(30), 1314(30)

RAWSON MINE (SC)

Analysis: 60(20), 142(20), 232(40), 470(40), 1303(60)
 Development: 1030(30), 1068(20)
 Development Potential: 582(80)
 General: 1031(30)
 Geology: 471(40), 1303(60)
 Marketing: 1030(30)
 Mining: 471(40), 845(20), 1022(20), 1081(20)
 Ownership: 51(30)
 Production: 1030(30)
 Reserves: 1303(60)
 Start-up: 142(20)
 Transportation - Railroad Spur: 142(20)

RAWSON PROSPECT

Analysis: 131(20)

RAY RIVER BASIN

Geology: 516(10)

RECLAMATION OF MINED LANDS

AR: 731(IP)
 I: 8(70), 226(70), 462(20), 463(70), 464(70), 804(70), 953(70),
 1271(70), 1274(80)

RECLAMATION OF MINED LANDS contd.

SC: 296(80), 463(70), 1058(70)

General: 11(70), 13(70), 300(IP), 464(70), 465(70), 503(IP),
871(70)

Multiple Areas: 835(IP), 954(70), 1235(80), 1258(80), 1269(70)

Overview: 849(IP), 954(70), 1001(70)

RED HILL

Coal Fires: 740(00)

General: 740(10)

RED MOUNTAIN (SC)

Analysis: 789(10), 1244(10)

Geology: 789(10)

RED RIVER (SW)

Analysis: 338(00), 784(10)

General: 490(1890), 1085(00)

Geology: 784(10), 819(1890)

REED PROPERTY (I)

Washability: 920(60)

REEF (SE)

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REGULATIONS

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Overview: 1258(80)

REINDEER CREEK (NW)

Geology: 645(10)

Mining: 645(10)

RESERVES (SINCE 1950)

AR: 252(60), 256(60), 257(60), 269(60), 295(70), 327(80),
386(IP), 387(60), 424(70), 440(70), 710(70), 731(IP),
793(70), 917(80), 936(50), 999(00), 1110(60), 1111(70),
1205(70), 1259(70), 1301(60)I: 256(60), 257(60), 259(70), 269(60), 295(70), 327(80),
505(IP), 517(IP), 582(80), 644(70), 725(80), 799(70),
924(70), 959(60), 938(70), 959(60), 979(70), 1264(60),
1270(IP), 1291(50), 1292(50)

NW: 269(60), 385(70), 492(80), 493(80), 604(60)

RESERVES (SINCE 1950) contd.

SC: 6(70), 190(10), 194(70), 252(60), 256(60), 257(60), 259(60),
 269(60), 273(60), 285(70), 290(70), 308(IP), 327(80), 367(60),
 410(70), 509(70), 517(IP), 545(70), 582(80), 622(50), 635(70),
 671(70), 673(60), 721(IP), 733(70), 799(70), 800(50), 810(50),
 811(70), 812(70), 837(60), 887(70), 888(70), 889(IP), 902(IP),
 904(60), 910(80), 911(IP), 924(70), 935(-), 938(70), 959(60),
 979(70), 984(70), 986(70), 997(IP), 1058(70), 1146(60),
 1205(70), 1264(60), 1303(60), 1305(60), 1306(60)

SW: 257(60), 269(60), 295(70), 467(70), 604(60)

General: 317(70), 510(70), 650(60), 652(70), 797(70), 906(IP),
 994(IP), 1083(70), 1263(60)

Multiple Areas: 11(70), 12(70), 84(50), 258(70), 293(70), 294(70),
 455(70), 461(60), 487(70), 504(70), 535(70),
 567(70), 659(70), 702(70), 713(60), 741(70),
 746(60), 749(80), 804(70), 808(70), 813(70), 853(70),
 963(70), 985(IP), 987(IP), 1051(70), 1095(80),
 1123(70), 1149(60), 1150(50), 1234(80), 1235(80),
 1249(70), 1301(70)

Overview: 1258(80)

REVILLA - GIGEDO

General: 727(1890)

REX CREEK (I)

Analysis: 786(10), 959(60), 1235(80)
 Environmental Impact: 1235(80)
 Geology: 786(10), 1296(60)
 Mining Costs: 1235(80)
 Production: 959(60), 1235(80)
 Reserves: 1235(80)
 Structure: 786(10), 959(60), 1296(60)
 Transportation: 1235(80)

RHYOLITE CREEK

Geology: 399(10)

RICE - SHEARER

Development Potential: 582(80)

RILEY CREEK (I)

Analysis: 61(20)
 Blacksmith Coal: 1125(40)
 Geology: 704(40)
 Stratigraphy: 704(40)
 Structure: 704(40)

RINEHART PROSPECT

Closure: 186(10)
 General: 284(50)
 Mining: 186(10)

ROBINSON MOUNTAIN (SC)

General: 765(10), 830(70), 985(IP)
 Geology: 1018(30)
 Rank: 830(70)
 Structure: 1018(30)

ROCHER CREEK

Geology: 391(10)

ROGERS, M.E.

Contracts: 82(50)

ROOSEVELT CREEK

Geology: 762(10)
 Structure: 762(10)

ROSS HECKEY MINE

Analysis: 58(20), 74(20), 1007(30), 1008(30)
 Blacksmith Coal: 58(20)
 General: 54(20), 69(30), 1029(30)
 Marketing: 1028(30)
 Mining: 845(20), 1024(30), 1026(30), 1027(30), 1028(30),
 1029(30), 1068(20)
 Production: 1028(30)

ROTH and MANLEY CLAIMS

General: 1024(30), 1025(30)

ROTH MINE

Analysis: 74(20), 143(20), 585(40)
 Character: 143(20)
 Development: 143(20), 585(40)
 Geology: 143(20)
 Lease Status: 143(20)
 Maps: 143(20)
 Steam Tests: 143(20)
 Transportation - Railroad - Spur: 143(20)

ROTH PROPERTY (I)

Analysis: 417(40)
 Development: 1068(20)

ROTH PROPERTY contd.

General: 1231(50)
 Geology: 471(40), 474(40)
 Map: 217(-)
 Mining: 1022(20), 1026(30)

ROTH - TAYLOR (I)

Analysis: 2(60), 470(40)
 Geology: 471(40)

ROYALTIES

Correspondence: 55(10), 91(50)
 General: 509(70)

RUBY REGION (I)

Analysis: 269(60), 417(60), 582(80), 823(30)
 General: 277(60), 828(10), 829(20)
 Geology: 567(70), 582(80), 823(30)
 Rank: 269(60)

RUNNELS

General: 207(10)

RUSSIAN-AMERICAN COMPANY MINE

General: 294(70), 354(10), 600(10), 739(10), 794(10), 875(10),
 1105(80)
 History: 858(80), 859(00)

RUTH RIVER (SC)

Geology: 1141(30)

SABLE PASS (I)

General: 392(30)

SADDLE MOUNTAIN

Stratigraphy: 766(80)

SAFETY

General: 89(50), 153(50), 517(IP), 879(20), 882(30), 883(30)

SAGAVANIRKTOK (SW)

Analysis: 1005(50)
 General: 316(70), 740(10)

- SAGWON BLUFF (AR)
 Analysis: 930(80)
 Geology: 930(80)
 Petrology: 930(80)
- SALANATOF (SC)
 General: 509(70)
- SALT CREEK (I)
 General: 447(00), 1201(60)
- SANCTUARY FORMATION
 Geology: 1296(60)
- SANCTUARY RIVER (I)
 Analysis: 2(60), 1125(40)
 General: 392(30), 843(30)
 Geology: 400(10)
 Rank: 1291(50)
 Stratigraphy: 396(10), 1125(40)
- SANFORD - USIBELLI MINE, See Also USIBELLI Headings
 General: 285(50)
 Map: 217(-)
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- SARGENT CREEK (I)
 Geology: 841(40)
- SAVAGE RIVER (I)
 Analysis: 704(40), 959(60), 1125(40), 1235(80)
 Environmental Impact: 1235(80)
 General: 392(30), 843(80)
 Geology: 400(10), 704(40)
 Location: 1290(70)
 Mining Cost: 1235(80)
 Production: 959(60), 1235(80)
 Rank: 1291(50)
 Reserves: 1249(70)
 Stratigraphy: 396(10), 704(40), 1125(40)
 Structure: 396(10), 704(40), 959(60)
 Transportation: 1235(10)
- SCHRADER BLUFF FORMATION
 Drilling: 968(50)

SEATTLE ALASKA ANTHRACITE COAL COMPANY

Coal Survey Plats: 1168(00)
General: 381(10), 422(10), 530(10)
Mining: 1046(10)

SECOND BERG LAKE (SC)

Analysis: 470(40), 744(10), 780(00), 1244(10)
Geology: 471(40), 780(00)
Stratigraphy: 780(00)

SELAWIK BASIN (NW)

Analysis: 493(80)
Geology: 493(80)

SELAWIK QUADRANGLE

Reserves: 317(70)
Transportation: 317(70)

SELDOVIA (SC)

Dating Methods: 1131(70)
General: 316(70), 813(70)
History: 638(70)
Mining: 638(70)
Petrography: 1131(70)
Volcanic Ash Partings in Coal: 1131(70)

SENTINEL HILL

Drilling: 968(50)

SEPPHAGEN MINE (SE)

Analysis: 338(00)
General: 490(1890)
Geology: 338(00)

SERPENTINE RIVER (NW)

Analysis: 493(80)
Geology: 493(80)
Resources: 492(80)

SEVENTYMILE RIVER (I)

Analysis: 827(30)
General: 269(60), 584(70), 1201(60)
Geology: 425(70), 446(00), 447(00)
Stratigraphy: 446(00)

SEWARD

Dock Statistics: 65(30), 66(30)

SEWARD PENINSULA (NW)

Analysis: 12(70), 125(00), 329(10), 339(00), 470(40), 493(80),
631(10), 775(00), 782(00), 783(00), 959(60)

Development: 277(60), 339(00), 346(00), 348(00), 349(00),
352(10), 353(10), 412(20), 662(00), 663(00),
777(20), 1019(00)

General: 269(60), 302(40), 358(10), 359(00), 585(40), 836(00),
984(70), 1022(20), 1029(30), 1031(30), 1035(40),
1036(40), 1225(10), 1250(00)

Geology: 329(10), 338(00), 345(00), 448(00), 493(80), 567(70),
775(00), 1041(10)

History: 858(80)

Map: 469(70), 517(IP)

Overview: 984(70)

Rank: 341(20), 1301(70)

Reserves: 634(00), 1041(10)

SHAVIOVIK RIVER (AR)

Analysis: 1005(50)

SHAW BED

Analysis: 415(20), 924(70)

Geology: 416(20), 781(10)

Mining: 416(20), 781(10)

Production: 416(20)

Structure: 415(20), 416(20), 781(10)

Washability: 924(70)

SHEEP CREEK (SC)

General: 548(10), 836(00)

Geology: 561(-)

SHEPHERD CREEK

Analysis: 778(00), 780(00), 787(00), 1084(00), 1244(10)

Geology: 778(00), 780(00), 1084(00)

Stratigraphy: 782(00), 787(00)

Structure: 787(00)

SHIELDS PROSPECT TUNNEL (SC)

Analysis: 470(40)

Geology: 471(40)

SHORT CREEK

Analysis: 875(10)

SHORT CREEK contd.

General: 407(10)
 Mining: 333(10),
 Production: 825(10)
 Structure: 825(10)

SHOVEL CREEK (I)

Analysis: 786(10)
 Geology: 786(10)
 Structure: 786(10)

SHUMAGIN ISLANDS (SW)

Analysis: 338(00)
 General: 490(90)
 Geology: 338(00)
 Mining: 819(1890)

SHUNGNAK

General: 1043(10)
 Reserves: 317(70), 1188(70), 1219(-)
 Transportation: 317(70)

SIKSIKVUK RIVER (AR)

General: 517(60)

SILTATION OF STREAMS

General: 533(70), 1053(IP), 1258(80)

SIMPSON AREA

Drilling: 965(60)
 General: 643(10)

SINAK RIVER (NW)

Analysis: 493(80)
 General: 195(40), 269(60), 813(70), 1019(00)
 Geology: 493(80)

SINGAURUK RIVER (NW)

Analysis: 493(80)
 Geology: 493(80)

SITKA (SE)

Analysis: 600(10)
 General: 491(1890)
 History: 600(10)
 Mining: 739(10)

SITKAN ARCHIPELAGO

Distribution: 319(1890)

SITKANAK ISLAND

Analysis: 200(60), 699(50), 1304(60)
 General: 490(1890), 1085(00)
 Geology: 200(60), 699(50), 784(10), 1304(60)
 History: 200(60)
 Reserves: 200(60)
 Stratigraphy: 200(60), 1304(60)
 Structure: 761(10)

SKWENTNA RIVER (SC)

Analysis: 1235(80)
 Environmental Impact: 1235(80)
 General: 269(60), 405(30)
 Geology: 404(20), 769(50)
 Mining Costs: 1235(80)
 Reserves: 1235(80)
 Stratigraphy: 271(60)
 Structure: 769(50)

SLATE CREEK (SC)

General: 818(00)
 Geology: 840(50)

SLEEPY CREEK (SW)

Analysis: 730(20)
 Geology: 730(20)

SLEETMUTE

Analysis: 470(40)

SLURRY PIPELINE

General: 804(70), 857(IP), 895(IP), 898(70)

SOUTHEASTERN ALASKA, See Also Locations in the Area

Analysis: 783(00)
 General: 1250(00)
 Overview: 1239(70)
 Permits: 228(10-20)
 Production: 228(10-20)
 Rank: 782(00)
 Reserves: 782(00)

SOUTHWESTERN ALASKA, See Also Locations in the Area

Analysis: 782(00)
 Permits: 228(10-20)
 Production: 228(10-20)
 Rank: 782(00)
 Reserves: 782(00), 1085(00)

SPARLING PROSPECT (SC)

Analysis: 284(50)

SQUARE LAKE (AR)

Drilling: 451(50)
 Stratigraphy: 451(50)

ST. ELIAS

General: 328(1890), 1018(30), 1203(70)

ST. JOHN BAPTIST BAY (SE)

General: 490(1890)

ST. LAWRENCE ISLAND (NW)

Analysis: 75(20), 195(40), 595(30), 1007(30)
 Characteristics: 595(30)
 General: 449(00)

ST. MARY'S CREEK

Analysis: 572(10)

STANDARD MINES (SC)

General: 1203(70)

STATISTICS (by year)

Consumption: 979(70), 1190(20-30), 1191(30-50), 1192(50-80)
 Mining: 979(70), 1190(20-30), 1191(30-50), 1192(50-80)
 Production: 979(70), 1190(20-30), 1191(30-50), 1192(59-80)
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STACY GROUP

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STRAIGHT CREEK

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Baxter Company: 496(20), 220(-)
 Bering River: 140(20-30), 272(-), 1260(10)
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 Locomotive Tests: 1278(30), 1280(30)
 Nenana: 229(-)

STILLWATER CREEK VALLEY

Analysis: 778(00)
 Geology: 778(00)

STONY CREEK (SC)

General: 500(70)
 Geology: 400(10), 1039(20)

STRONG BLUFF (AR)

Mining: 866(00)

STUYAHOK RIVER (I)

General: 588(10), 632(10)

SULFUR IN COAL

General: 474(-), 1297(60)

SULLIVAN ISLAND

General: 726(1880), 727(1890)

SUNFLOWER CREEK (SC)

General: 984(70)
 Overview: 984(70)
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SUNTRANA FORMATION

Analysis: 3(80)
 Character: 3(80)
 Geology: 3(80)
 Map (Strat): 1284(70), 1285(70), 1287(70), 1288(70), 1289(70),
 1290(70)

SUNTRANA MINE

Analysis: 2(60), 234(50), 236(50), 240(50), 241(60), 243(60),
 431(50), 471(40), 494(20), 585(40), 598(60), 698(70),
 862(40), 884(40), 885(50), 924(70), 962(70), 1005(50),
 1006(40), 1102(70), 1170(40), 1173(70), 1280(30),
 1297(60), 1300(60)

SUNTRANA MINE contd.

Carbonization: 884(40), 885(50)
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 1209(50-70)
 Contracts: 24(50)
 Gasification Potential: 884(40)
 General: 10(50), 12(70), 21(50), 167(50), 267(50), 285(50),
 311(20), 621(40), 877(20), 984(70), 1026(30), 1067(20),
 1231(50)
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 704(40), 774(40), 924(70)
 History: 638(70), 858(80)
 Location: 383(70), 1289(70)
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 Mining: 85(50), 383(70), 495(20), 638(70), 668(50), 669(50),
 805(IP), 845(20), 924(70), 984(70), 985(IP), 1022(20),
 1027(30), 1028(30), 1033(40), 1068(20), 1078(40),
 1125(40), 1271(70), 1295(50), 1323(60)
 Petrography: 962(70)
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 Purchased by Usibelli: 1324(60)
 Reserves: 1150(50)
 Steam Tests: 1280(30)
 Stratigraphy: 366(70), 704(40), 1006(40)
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 Ventilation: 1125(40)
 Washability: 924(70)

SUNTRANA MINING COMPANY

Coal Fire: 1097(50)
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 General: 9(50), 26(60), 156(50), 163(50)
 Mine Map: 1097(50), 1098(50), 1099(50), 1100(50)
 Mining: 667(50)
 Purchased by Healy River Coal Mine: 152(50), 667(50)

SUPERIOR MINE (NW)

Mining: 985(IP)

SUSHANA RIVER

Analysis: 2(60), 1125(40)
 Stratigraphy: 1125(40)

SUSITNA COAL FIELD

Analysis: 12(70), 269(60), 327(80), 329(10), 659(70), 799(70),
 813(70), 927(RIP), 959(60), 1005(50), 1170(40)
 Development Potential: 293(70), 455(70), 517(IP), 545(70),
 640(50), 1205(70), 1206(70)
 Economics: 535(70)
 General: 1(00), 6(70), 13(70), 277(60), 341(20), 394(40),
 401(10), 405(30), 407(10), 469(70), 476(10), 546(20),
 599(00), 622(50), 738(00), 804(70), 809(70), 861(60),
 1227(10), 1250(00)
 Geology: 327(80), 329(10), 338(00), 345(00), 354(10), 383(70),
 393(20), 394(40), 402(30), 404(20), 406(20), 408(30),
 458(70), 528(1890), 529(1890), 998(70), 1085(00)
 History: 457(70), 641(50)
 Land Status: 504(70)
 Location: 383(70), 671(60)
 Marketing Potential: 293(20)
 Mining: 327(80), 383(70), 517(IP), 614(50), 1169(70)
 Mining Costs: 457(70)
 Permits: 186(10), 228(10-20)
 Rank: 269(60), 441(10), 813(70), 1169(20), 1301(70)
 Reserves: 11(70), 293(70), 455(70), 504(70), 517(IP), 535(70),
 545(70), 635(70), 671(70), 813(70), 933(70), 1249(70)
 Stratigraphy: 269(60)
 Structure: 327(80), 959(70), 998(70)
 Transportation: 1082(10)
 Washability: 927(RIP)

SUTTON

General: 829(20), 877(20), 889(IP), 1081(20)
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 Power Generation Potential: 908(60)
 Reserves: 889(IP)

SUTTON COAL WASHERY PLANT

Closure: 145(20-60), 1026(30)
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 General: 1003(20)
 Inventory: 140(20-30)
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SURFACE MINING, See Also Specific Mines

AR: 710(70), 833(70)

I: 505(IP)

SC: 733(70), 887(70)

General: 503(IP), 553(70), 906(IP), 924(70), 954(70), 987(IP),
994(IP), 1022(20), 1094(IP), 1199(70), 1258(80),
1271(70)

Multiple Areas: 1083(70)

Reclamation: 463(70), 464(70), 849(IP)

Reserves: 259(70), 285(50)

SWIFT CREEK (NW)

Analysis: 823(30)

General: 829(20)

Geology: 823(30)

SWIFT RIVER (SW)

General: 269(60)

SYNTHETIC FUELS

SC: 308(IP), 509(70), 721(IP), 860(IP), 888(70), 902(IP),
960(IP), 1151(50)General: 11(70), 424(70), 520(IP), 565(70), 602(70), 691(IP),
721(IP), 741(70), 805(IP), 895(IP), 906(IP), 1235(80),
1258(80)

Hydrogenation: 71(40), 72(40), 230(50), 1151(50), 1222(20+)

Marketing Potential: 1151(50)

Solvent-Refined Coal: 11(70), 13(70), 659(70), 804(70), 979(70)

TACOMA COAL CLAIM

General: 680(10)

TAKLI ISLAND

General: 491(90)

TALACHULITNA (SC)

Geology: 769(50)

Structure: 769(50)

TALKEETNA MOUNTAINS (SC)

Analysis: 870(00)

General: 316(70), 809(70)

Geology: 287(50), 932(70)

Reserves: 932(70)

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TALKEETNA RIVER (SC)

General: 738(00), 932(70)

Stratigraphy: 869(00)

TALUSHULITNA RIVER

General: 405(30)

Geology: 404(20)

TANANA VALLEY (I)

Analysis: 585(40)

Exploration: 323(00)

General: 320(1890), 324(00), 342(1890), 394(40), 882(30),
985(IP)

Geology: 516(10), 585(40)

Transportation: 1082(10)

TANUNAK

General: 584(70)

TATLANIKA BASIN (I)

Analysis: 327(80), 470(40), 959(60), 1170(40), 1235(80)

Environmental Impact: 1235(80)

Geology: 327(80), 390(10), 398(10), 471(40), 1296(60)

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Structure: 327(80), 390(10), 959(60), 1296(60)

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TAXATION

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TAZLINA RIVER

General: 1(00), 818(00)

TEKLANIKA RIVER (I)

Analysis: 2(60), 327(80), 1125(40)

General: 392(30), 843(30), 985(IP)

Geology: 327(80), 400(10)

Mining: 327(80)

Stratigraphy: 396(10), 1125(40)

Structure: 327(80), 396(10)

TEOCALLI MOUNTAIN

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TEPSAKO RIVER (AR)

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Geology: 493(80)

Mining: 1124(40)

THEIN MINE, See CLEMENS THEIN MINE

THETIS GROUP (AR)

Analysis: 448(00)

Geology: 445(00), 448(00)

Stratigraphy: 445(00), 448(00)

Structure: 445(00), 448(00)

THETIS MINE (AR)

Analysis: 419(60)

General: 338(00), 419(60), 999(00)

History: 638(70)

Mining: 448(00), 638(70), 866(00)

Structure: 419(60)

THISTLE CREEK (I)

Analysis: 786(10)

Geology: 786(10)

Structure: 786(10)

THOMPSON CREEK (SW)

Analysis: 356(20), 730(20)

General: 352(10)

Geology: 730(20), 1085(00)

THOMPSON VALLEY MINE (SW)

Analysis: 470(40), 467(70), 1049(20), 1170(40)

Character: 254(10)

Development: 255(00)

General: 808(70)

Geology: 467(70)

Mining: 255(00), 477(10), 1049(20)

Reserves: 467(70)

Stratigraphy: 254(10), 255(00), 467(70), 1049(20)

Structure: 255(00), 467(70)

Washability: 467(70)

THOROFARE RIVER (I)

General: 392(30)
Geology: 1039(20)

THREEMILE (SC)

Analysis: 507(80)
Development Potential: 887(70)
Geology: 327(80)
Mining: 733(70)

THURSTON

General: 207(10)

TIDE WATER CONSOLIDATED COMPANY (SW)

General: 1046(10)

TITALUK RIVER

Drilling: 967(50)

TOKOSITNA RIVER

General: 1141(30)

TOKLAT RIVER (I)

Analysis: 2(60), 704(40)
General: 843(30)
Geology: 400(10), 406(20), 704(40), 937(60), 1039(20), 1150(20)
History: 858(80)
Production: 394(40)

TOKSOOK BAY (SW)

General: 584(70)

TOKUN CREEK (SC)

Analysis: 470(40), 744(10), 780(00), 782(00), 1170(40),
1244(10)
Development: 561(-)
General: 548(10)
Geology: 471(40), 561(-), 780(00), 786(00)
Stratigraphy: 782(00)

TONAKAT

General: 546(20)

TOPAGORUK (AR)

Drilling: 452(50)
Stratigraphy: 452(50)

TOROK FORMATION (AR)

Geology: 386(IP)

TOTATLANIKA RIVER (I)

Coal Fire: 1119(70)

Geology: 398(10), 786(10)

Stratigraphy: 1285(70)

TOYONAK

History: 638(70)

Mining: 638(70)

TOZITNA RIVER (I)

General: 584(70)

TRAIL CREEK

Analysis: 780(00), 1244(10)

Geology: 780(00)

TRAMWAY BAR (I)

Analysis: 925(80), 930(80), 999(00)

Character: 925(80)

General: 338(00), 446(00), 584(70), 585(40)

Geology: 925(80), 930(80)

Petrology: 930(80)

Washability: 925(80)

TRANSPORTATION (SINCE 1950), See Also ALASKA RAILROAD, SLURRY PIPELINE

AR: 252(60), 424(70), 1140(70)

I: 1011(80), 1337(70)

NW: 413(20), 873(70)

SC: 6(70), 285(50), 290(70), 296(80), 720(70), 721(IP), 769(50),
857(IP), 863(70), 890(70), 960(IP), 1011(80), 1058(70),
1059(70), 1334(60)General: 11(70), 13(70), 83(50), 84(50), 294(70), 295(70),
317(70), 509(70), 582(70), 701(70), 712(60), 797(70),
804(70), 836(60), 895(IP), 940(70), 946(80), 961(70),
976(IP), 995(IP), 1083(70), 1206(70), 1235(80),
1333(70), 1336(IP)

Multiple Areas: 808(70), 1258(80)

TRAVERS CREEK (SC)

Geology: 1086(00)

Stratigraphy: 1086(00)

Structure: 1086(00)

- TRINITY ISLANDS (SC)
Geology: 699(50)
- TROUBLESOME CREEK (SC)
General: 1141(30)
- TROUBLESOME GULCH
Geology: 1085(00)
Stratigraphy: 255(00)
- TROUT CREEK (SC)
Analysis: 470(40), 572(10), 778(00), 780(00), 782(00), 787(00),
1084(00), 1176(40), 1244(10)
Coking: 782(00)
General: 280(50), 512(10), 548(10), 575(10), 827(30), 1238(10),
1307(60)
Geology: 471(40), 561(-), 704(40), 778(00), 780(00), 1084(00),
1326(10)
Stratigraphy: 778(00), 787(00)
Structure: 704(40), 778(00)
Washability: 920(60)
- TRIUMVIRATE GLACIER (SC)
General: 996(70)
- TUBUTULIK RIVER (NW)
Analysis: 493(80), 1042(10)
General: 195(40), 1019(00)
Geology: 493(80), 1042(10), 1317(50)
Reserves: 492(80)
- TULUGA RIVER (AR)
General: 517(60)
Geology: 999(00)
Structure: 999(00)
- TULUGAK CREEK (AR)
Analysis: 11(70)
Stratigraphy: 921(80)
- TULURAK TONGUE (AR)
Analysis: 517(60)
Drilling: 968(50)

TWO BALL RIDGE AREA (I)

General: 8(70)

TYONEK (SC)

Analysis: 338(00), 354(10), 441(10), 470(40), 478(10), 644(70),
744(10), 769(50), 775(00), 782(00), 904(60), 1085(00),
1170(40), 1226(10), 1235(80), 1244(10)

Character: 255(00)

Environmental Impact: 1235(80)

General: 1(00), 13(70), 186(10), 316(70), 339(00), 359(00),
599(00), 796(10), 1090(10), 1161(50), 1250(00)Geology: 338(00), 354(10), 402(30), 471(40), 529(1890), 585(40),
644(70), 769(50), 775(00), 1085(00)

History: 638(70), 858(80)

Market Analysis: 1162(50)

Mining: 329(10), 354(10), 638(70)

Mining Costs: 1235(80)

Power Plant Potential: 815(70)

Production: 255(00), 1235(80)

Rank: 441(10)

Reserves: 255(00), 1235(80)

Structure: 338(00), 738(00), 769(50)

Transportation: 1235(80)

UGAK BAY (SW)

General: 1085(00)

UGANIK BAY REGION

General: 491(1890), 1085(00)

UGASHIK LAKES (SW)

Geology: 819(1890), 1085(00)

ULUKUK CREEK (NW)

Analysis: 493(80), 1042(10)

General: 338(00), 1041(10)

Geology: 493(80), 1042(10)

UMIAT (AR)

Exploration: 936(50)

General: 316(70)

Geology: 581(70), 710(70)

Paleobotany: 513(50)

Palynology: 513(50)

Petrography: 513(50)

Reserves: 710(70)

UNALAKLET (NW)

Analysis: 2(60), 470(40), 493(80), 1009(30), 1042(10), 1170(40)
 Claims: 1166(40)
 Development: 1030(30)
 General: 11(70), 195(40), 277(60), 584(70), 777(20), 956(10),
 985(IP), 1027(30), 1029(30), 1090(10), 1162(50)
 Geology: 493(80), 567(70), 1042(10)
 History: 858(80)
 Marketing Potential: 1028(30), 1030(30)
 Mining: 466(IP), 633(20), 1028(30)
 Power Generation Potential: 466(IP)
 Production: 633(20), 1028(30), 1030(30)
 Rank: 269(60), 441(10), 813(70)
 Reserves: 11(70), 492(80), 1249(70)

UNALASKA (SW)

Distribution: 319(1890)
 General: 490(1890)
 History: 638(70)
 Mining: 638(70)

UNAMED CREEK (I)

Stratigraphy: 896(70)

UNGA COAL FIELD (SW)

Analysis: 12(70), 254(10), 269(60), 338(00), 339(00), 470(40),
 585(40), 600(10), 659(70), 775(00), 782(00), 1170(40),
 1226(10), 1244(10)
 Character: 254(10)
 Development: 254(10), 269(60)
 Development Potential: 293(70)
 General: 256(00), 277(60), 354(00), 490(1890), 491(1890),
 726(1880), 727(1890), 728(1890), 1109(80), 1250(00)
 Geology: 338(00), 471(40), 585(40), 604(60), 775(00), 1085(00),
 1150(50)
 History: 600(10), 638(70), 858(80)
 Mining: 254(10), 469(70), 471(40), 478(10), 638(70), 859(00),
 985(IP), 1046(10)
 Overview: 984(70)
 Production: 985(IP)
 Rank: 269(60), 441(10), 813(70), 1301(70)
 Reserves: 11(70), 293(70), 534(00)
 Stratigraphy: 254(10), 269(60), 338(00)
 Structure: 269(60), 338(00)

U.S. AIR FORCE, See MILITARY COAL INTEREST and ANCHORAGE MILITARY POWER PLANT

U.S. ARMY, See MILITARY COAL INTEREST and ANCHORAGE MILITARY POWER PLANTS

U.S. ARMY COAL COMMISSION

General: 1076(40)

U.S. ARMY COAL PROCUREMENT COMMITTEE

General: 616(40), 617(40), 618(40), 774(40)

U.S. NAVY, See Also NAVAL ALASKAN COAL COMMISSION

General: 512(10), 560(10), 576(10), 578(10), 655(10), 656(20),
831(20), 834(20), 969(00), 970(00), 971(00), 1260(10)

USIBELLI COAL COMPANY (I)

Analysis: 1337(70)
Coal Reports: 92(40)
Development Potential: 293(70)
Employment Statistics: 1272(70)
Environmental Impact: 1272(70)
Equipment: 1272(70)
General: 83(50)
Marketing Potential: 293(70)
Mining: 987(IP)
Mining Costs: 1272(70)
Production: 459(70)
Reclamation: 1272(70)
Reserves: 293(70), 505(IP)
Transportation: 148(60)

USIBELLI COAL MINE, INC. (I)

Contracts: 82(50)
Development: 231(70)
Development Potential: 587(70)
Equipment: 231(70)
General: 9(50), 20(50), 151(50), 157(50), 163(50), 294(70),
507(80), 858(80)
History: 802(70), 858(80)
Marketing: 231(70)
Mine Map: 1275(60),
Mining: 231(70), 518(70), 519(70), 801(60), 802(70)
Mining Conditions: 587(70)
Power Plant: 886(60)
Production: 231(70)
Reserves: 587(70)
Retail Outlet Fairbanks: 169(50)

USIBELLI MINE (I)

Analysis: 2(60), 12(70), 234(50), 235(50), 236(50), 237(50),
 239(50), 240(50), 241(60), 243(60), 244(60), 245(60),
 246(60), 247(60), 248(60), 249(60), 250(60), 460(70),
 625(60), 697(70), 698(70), 920(60), 924(70), 959(60),
 962(70), 1171(70), 1172(70)

Coke Testing: 625(60)

Contracts: 30(60), 33(60), 39(60), 171(50)

Development: 462(70), 917(80), 1011(80), 1236(80), 1274(80)

Development Potential: 1123(70), 1270(IP)

Drilling: 1274(80)

Environmental Impact: 750(70)

Equipment: 36(60), 804(70), 1273(IP), 1274(80)

General: 13(70), 24(60), 26(60), 31(60), 42(60), 147(40-50),
 410(70), 1231(50)

Geology: 383(70), 463(70), 704(40), 774(40)

History: 462(70), 638(70), 858(80)

Labor Difficulties: 666(50)

Leases: 147(40-50)

Location: 1289(70)

Map: 217(-), 942(60), 943(60), 944(70), 945(-), 1243(-)

Marketing: 750(70), 1274(80)

Marketing Potential: 1270(IP)

Military Coal Interest: 147(40-50)

Mining: 167(50), 383(70), 463(70), 464(70), 638(70), 644(70),
 666(50), 750(70), 805(IP), 835(IP), 931(IP), 953(70),
 980(50), 984(70), 985(IP), 987(IP), 1011(80), 1078(40),
 1125(70), 1236(80), 1270(IP), 1271(70), 1273(IP),
 1323(60)

Mining Methods: 462(70), 953(70), 1273(IP), 1274(80)

Petrography: 625(60), 962(70)

Power Generation: 1011(80)

Power Plant: 147(40-50)

Preparation: 460(70), 1273(IP)

Production: 462(70), 525(70), 750(70), 917(80), 934(50), 959(60),
 985(IP), 1011(80), 1236(80), 1270(IP)

Rank: 462(70)

Reclamation: 226(70), 462(70), 463(70), 464(70), 804(70),
 953(70), 1273(IP), 1274(IP)

Reserves: 11(70), 410(70), 505(IP), 1011(80)

Stratigraphy: 704(40), 750(70)

Structure: 704(40), 959(60), 1271(70)

Transportation: 1011(80), 1274(80)

Washability: 460(70), 625(60), 924(70)

Washery: 147(40-50), 667(50), 668(50), 669(50)

UTAH MINES, LTD.

General: 518(70)

UTILIZATION (SINCE 1950)

AR: 419(60), 605(IP), 935(50)

I: 641(50), 745(70), 1270(IP)

SC: 639(50), 641(50), 1216(50)

Agriculture: 303(50)

Economics: 1057(70)

General: 89(50), 101(70), 197(50), 263(70), 301(IP), 370(70),
 386(IP), 409(70), 466(IP), 487(70), 488(70), 489(70),
 517(IP), 520(IP), 565(70), 597(70), 602(70), 642(50),
 652(70), 691(IP), 692(70), 706(IP), 742(IP), 798(70),
 854(70), 895(IP), 906(IP), 928(70), 938(70), 959(60),
 976(IP), 979(70), 985(IP), 1057(70), 1258(80), 1336(IP)

Historical: 985(IP)

Home Heating: 1052(IP)

Local: 624(52)

Military: 623(50), 624(50)

Outlook: 1095(80)

Overview: 1344(50)

Statistics: See under STATISTICS - CONSUMPTION

UTUKOK RIVER (AR)

Analysis: 3(80), 270(60), 419(60), 585(40), 637(60), 868(20),
1235(80)

Character: 3(80)

Environmental Impact: 1235(80)

General: 994(IP), 1021(20)

Geology: 3(80), 384(70), 386(70), 419(60), 585(40), 710(70),
1005(50), 1040(20), 1044(30)

Location: 384(70)

Mining Costs: 1235(80)

Production: 1235(80)

Reserves: 384(70), 424(70), 710(70), 1235(80)

Stratigraphy: 419(60), 868(20), 1044(30)

Structure: 419(20), 868(20), 1040(20), 1044(30)

Transportation: 1235(80)

VALDEZ CREEK

Analysis: 973(30), 1005(50)

VITRO COAL MINE (I)

Mining: 1271(70)

VITRO MINERALS CORPORATION

General: 42(60), 802(70)
 Purchase of Cripple Creek: 41(60)
 Washability: 920(60)

VOLCANIC ASH PARTINGS

General: 1127(70), 1128(70), 1129(70), 1130(IP), 1131(70),
 1147(80), 1148(70)

WAINWRIGHT (AR)

Analysis: 2(60), 315(70), 329(10), 339(00), 448(00), 470(40),
 573(10), 585(40), 775(00), 782(60), 868(20), 930(80),
 999(00), 1005(50), 1006(40), 1044(30), 1170(40),
 1226(10), 1244(10)
 Development Potential: 315(70)
 Drilling: 315(70)
 General: 175(30), 310(20), 312(20), 334(20), 358(10), 559(00),
 845(20), 866(1900), 877(20), 881(30), 882(30), 883(30),
 1021(20), 1024(30), 1025(30), 1029(30), 1031(30),
 1036(40), 1078(40)
 Geology: 315(70), 329(10), 338(00), 344(20), 345(00), 386(IP),
 445(10), 448(00), 471(00), 585(40), 775(00), 930(80),
 999(00), 1044(30)
 History: 638(70), 858(80)
 Mining: 448(00), 466(IP), 638(70), 985(IP), 1026(30), 1175(40)
 Mining Methods: 315(70)
 Petrology: 930(80)
 Power Generation Economics: 466(IP)
 Production: 315(70), 344(20), 985(IP), 1044(30)
 Rank: 441(10)
 Reserves: 11(70)
 Stratigraphy: 315(70), 868(20), 930(80), 1044(30)
 Structure: 338(00), 445(00), 448(00), 868(20), 999(00), 1044(30)

W.A. HAVNER and COMPANY (SC)

General: 514(20)
 Leases: 514(20)

WALKER DOME

Coal Fire: 1119(70)

WALLEN MINE, See GEORGE WALLEN MINE

WARDALL RIDGE (SC)

Analysis: 470(40), 571(10), 1170(40)
 Geology: 471(40)
 Report: 1062(10)

WASHABILITY OF COAL

AR: 1265(60)
 I: 625(60), 924(70)
 SC: 563(20), 588(60), 590(60), 592(-), 593(40), 625(60),
 644(50), 705(50), 889(IP), 904(60), 923(60), 924(70),
 1146(60)
 General: 132(20), 467(70), 494(20), 591(40), 597(70), 928(70),
 987(IP)
 Multiple Areas: 925(80), 926(IP), 927(RIP)
 Overview: 460(70)

WASHINGTON COAL CLAIM

General: 376(10)

WASHINGTON CREEK (I)

Analysis: 269(60), 336(00), 446(00), 447(00), 585(40), 827(30),
 900(10), 901(00), 1201(60)
 General: 584(70), 901(00)
 Geology: 336(00), 446(00), 447(00), 1201(60)
 History: 858(80)
 Mining: 336(00), 901(00)
 Rank: 269(60), 441(10)

WASILLA (SC)

Analysis: 2(60)
 Beds Examined: 209(-)

WASTE DISPOSAL

General: 370(70), 533(70), 835(IP), 1053(IP), 1056(60)

WATER POLLUTION

General: 370(70), 503(IP), 533(70), 835(IP), 1053(IP), 1094(IP),
 1235(80), 1258(80), 1347(70)

WATERFALL BED (SC)

Analysis: 507(80)
 Character: 925(80)
 Washability: 925(80)

WATSON CAMP AREA

Geology: 481(10)

WATSON GROUP

Mining: 1046(10)

WHALE BAY/BARANOFF ISLAND

General: 490(1890)

WHALERS CREEK (SC)

Analysis: 356(20), 730(70), 744(10), 1049(10), 1170(40)

Character: 254(10)

General: 808(70)

Geology: 471(40), 730(20), 1085(00)

History: 858(80)

Mining: 255(00), 477(10), 478(10)

Stratigraphy: 254(10), 255(00), 1049(10)

Structure: 255(00), 730(20)

WHARF MINE (SC)

Analysis: 12(70)

Closure: 331(10)

General: 984(70)

History: 858(80)

Mining: 603(10), 984(70), 985(IP)

Patent: 330(10)

Production: 985(IP)

WHATCOM COAL

General: 915(10)

WHEELER COAL CLAIM

General: 682(10)

WHITE

General: 207(10)

WHITE RIVER

General: 338(00)

WILKHOLM FREE USE PERMIT

General: 186(10)

WILLIAMS MINE (I)

Analysis: 417(60), 446(00), 447(00), 582(80), 744(10)

General: 584(70), 1041(10), 1307(60)

Geology: 417(60), 446(00), 447(00), 582(80)

History: 638(70)

Mining: 447(00), 638(70), 859(00)

WILLOUGHBY GROUP

General: 684(10), 714(10), 916(10)

WILLOW CREEK DISTRICT (AR)

Analysis: 517(60), 1005(50)

General: 869(00)

Geology: 408(30), 414(20), 517(60)

Structure: 517(60)

WILSON CREEK/KUWALIK RIVER

General: 412(20), 631(10)

WINDY FORK

Analysis: 1015(70)

Stratigraphy: 1015(70)

Structure: 1015(70)

WISEMAN (AR)

General: 316(70)

WISHBONE HILL (SC)

Analysis: 12(70), 232(40), 267(40), 269(60), 459(70), 924(70),
959(60)

Carbonization: 1008(30), 1010(30), 1307(60)

Character: 924(70), 1206(70)

Contracts: 1216(50)

Correspondence: 1217(50-60)

Development: 149(-), 639(50), 640(50), 1030(30), 1032(30)

Development Potential: 582(80)

Drilling: 221(50), 1185(-), 1186(50), 1215(50), 1216(50)

Exploration: 1031(30)

General: 284(50), 294(70), 621(50), 623(50), 624(50), 1063(50)

Geology: 232(40), 267(50), 394(40), 458(70), 589(40), 704(40)

781(00), 789(10), 800(50), 889(IP), 1142(30), 1215(30),
1303(60), 1334(60)

History: 149(-), 904(60)

Locations: 286(50)

Map: 275(60), 1184(40)

Marketing Potential: 582(80)

Mine Map: 1194(40)

Mining: 286(50), 889(IP), 984(70), 985(IP), 1031(30), 1033(40),
1063(50), 1064(50), 1125(40), 1303(60)

Overview: 808(70)

Production: 260(40), 267(50), 269(60), 889(IP), 959(60),
985(IP), 1206(70)

WISHBONE HILL contd.

Reserves: 639(50), 889(IP), 987(IP), 1303(60), 1307(60)
 Stratigraphy: 267(50), 285(50), 704(40), 904(60), 1194(40)
 1215(50)
 Structure: 704(40), 285(50), 789(10), 1215(50), 1307(60),
 1313(30)

WISHBONE HILL COAL COMPANY

Analysis: 1009(30)
 General: 232(40)
 Marketing: 1028(30)
 Mining: 1028(30), 1029(30)
 Production: 1028(30)

WOLF CREEK (AR)

Analysis: 270(60)
 Drilling: 451(50)
 General: 1201(60)
 Stratigraphy: 451(50)

WOLVERINE CREEK (SC)

Analysis: 271(60)

WOLVERINE LAKES

Analysis: 735(20)

WOOD RIVER (I)

Analysis: 327(80), 959(60), 1235(80)
 Environmental Impact: 1235(80)
 General: 398(10), 985(IP)
 Geology: 327(80), 390(10), 899(00), 1296(00)
 Locations: 1283(70)
 Mining: 327(80)
 Mining Costs: 1285(80)
 Production: 959(60), 1235(80)
 Reserves: 1235(80)
 Transportation: 1235(80)

WOODARD COAL CLAIM

General: 377(10)

WOODCHOPPER CREEK (I)

Geology: 1018(30)
 Mining: 1018(30)

WRANGELL MOUNTAINS (I)

General: 585(40), 1203(70)

Geology: 1343(00)

YAKATAGA (SC)

Analysis: 470(40), 571(10), 765(10), 1170(40)

General: 478(10), 1090(10)

YAKUTAT BAY (SE)

General: 269(60), 490(1890), 727(1890), 728(1890)

Geology: 338(00), 1115(00), 1116(00)

Mining: 801(60)

Rank: 441(10)

Reserves: 1249(70)

YANERT (I)

Analysis: 470(40), 580(30), 704(40), 1125(40), 1170(40)

Development Potential: 580(30)

Economics: 580(30)

Geology: 471(40), 580(30), 704(40)

Marketing: 580(30)

Mining: 471(40), 989(IP), 1125(40)

Production: 989(IP)

Stratigraphy: 580(30), 704(40), 1307(60)

Structure: 580(30), 704(40), 1307(60)

YANTARNIE BAY (SW)

General: 490(1890)

YELLOW RIVER

General: 588(10)

YENTNA RIVER BASIN (SC)

Analysis: 327(80), 925(80), 930(80), 1235(80)

Character: 925(80)

Development Potential: 545(70)

Environmental Impact: 1235(80)

General: 338(00), 405(30), 469(70), 776(10), 984(70), 985(IP)

Geology: 327(80), 404(20), 407(10), 515(10), 585(40), 925(80),
930(80)

History: 925(80)

Leases: 308(IP)

Mining: 327(80), 407(10)

Mining Costs: 1235(80)

Petrology: 930(80)

YENTNA RIVER BASIN contd.

Production: 394(40), 1235(80)
 Reserves: 545(70), 1235(80)
 Structure: 327(80),
 Transportation: 1235(80)
 Washability: 925(80)

YENTO RIVER (SC)

General: 1(00), 269(60)

YOUNG CREEK (SC)

Analysis: 470(40), 476(10), 478(10), 481(10), 572(10), 744(10),
 790(00), 791(00), 795(10), 869(00), 870(00), 1170(40),
 1244(10)
 Development Potential: 578(10)
 General: 789(10), 803(10)
 Geology: 415(20), 471(40), 476(10), 478(10), 481(10), 791(00),
 795(10), 870(00)

YOUNGSTOWN CONSOLIDATED COAL COMPANY (SC)

General: 422(10), 757(10)
 Mining: 1046(10)

YUKON RIVER BASIN

Analysis: 12(70), 294(70), 327(80), 329(10), 338(00), 339(00),
 470(40), 585(40), 775(00), 782(00), 799(70), 959(60),
 1005(50), 1042(10), 1226(10), 1244(10), 1250(00),
 1307(60)
 Development Potential: 293(70), 582(80), 634(00), 1123(70)
 Exploration: 323(00)
 General: 302(40), 320(1890), 324(00), 341(20), 342(1890),
 346(00), 358(10), 359(00), 469(70), 478(10), 588(10),
 726(1880), 727(1890), 900(10), 1250(00)
 Geology: 294(70), 327(80), 329(10), 338(00), 345(00), 354(70),
 417(60), 443(00), 516(10), 582(80), 585(40), 604(60),
 775(00), 843(70), 901(00), 1018(30), 1042(10), 1150(50),
 1325(60)
 History: 858(80)
 Locations: 1108(1880)
 Marketing Potential: 293(70)
 Mining: 329(10), 348(00), 985(IP)
 Overview: 984(70)
 Permits: 228(10-20)
 Production: 228(10-20), 985(IP)

YUKON RIVER BASIN contd.

Reserves: 293(70), 446(00), 447(00), 634(00), 782(00), 1249(70)

Stratigraphy: 417(60)

Structure: 327(80), 417(60), 659(70), 1018(30), 1307(60)

ZACHERY BAY (SW)

General: 531(10)

ZAREMBO ISLAND (SE)

General: 985(IP)

Geology: 604(60)

Location: 297(70)