MEMORANDUM

State of Alaska

TO:

Marvin A. Kuentzel
Water Resources Branch
Division of Lands

DATE: March 27, 1967

FROM:

Dorothy Mihelich
Mineral Analyst
Division of Mines and Minerals

SUBJECT: Valid mining claims in the
Anchorage, Palmer and
Whittier Recording Districts

Following are the names and addresses of holders of valid mining and patented mining claims within the Anchorage, Palmer and Whittier Recording Districts:

**Anchorage Recording District**

Henry L. Schlossinger, Star Route Box 195, Palmer; with Edward P. Flounders, address unknown.

Adrian G. Barber, Donald F. Barber and Jerry L. Barber, Box 4-1058, Anchorage.

Warren J. Nystrom, 831 Gambell St., Anchorage

Anchorage School District

Herbert Lang, 433 9th Avenue, Anchorage, and Robert Peters, 4416 S.E. Milwaukee, Portland, Oregon

Charles and Bruce Petrie, Box 2404, Anchorage

A. S. Erickson, 1102 Seventh Avenue, Anchorage

Robert Page, 3533 Thompson St., Mt. View

Glacier Mining Co., Box 4699, Spenard

John Mackwitz, Box 1676, Anchorage

Anchorage Sand and Gravel, 1800 East Second Avenue, Anchorage. (Leased from Big Four Development Co., address unknown.

**Whittier Recording District**

T. F. Isherwood, 609 Broughton St., Victoria, B.C.

Glenn Heatherly, 6405 Seward Highway, Anchorage

Portage Gold Mines, c/o T. F. Isherwood

**Palmer Recording District**

R. S. Richards, 2539 Foraker Drive, Anchorage, with Albert Lindemuth, Dan Cuddy and C.A. Rich

John L. McPherson, Route 2, Box 205, Rolling Fork, Mississippi

Alba Brooks, Box 703, Palmer

Lorance Zimmerman, 2804 W. 83rd Avenue, Spenard and John P. Koruna, 1573 Karluk St., Anchorage

William Mrak, Box 16, Sutton

A. W. Smith, 3252 E.C.Br., Anchorage

Clayton Rasmussen, 7933 Jewell Lake Road, Spenard

William O. Einsporn, U.S.S.Pyro AE 24, c/o FPO, San Francisco, and Della F. Janosky, Big Lake Route, Wasilla

J. A. McCharles, 809 N. Flower St., Mt. View, and C.C. Cechowski, Box 374, Anchorage
To: Dorothy Mihelich
   Mineral Analyst
   Department of Mines and Minerals

From: Marvin A. Kuentzel
   Water Resources Branch
   Division of Lands

DATE March 7, 1967

SUBJECT Mining Claims in the Anchorage, Palmer, and Whittier Recording Districts

Thank you, Mrs. Mihelich, for the very prompt service rendered in sending the names and addresses of mining claim holders located on the Kenai Peninsula. It is very gratifying to find that such prompt attention was given to a difficult assignment. Now that we have a little breathing room, so to speak, in determining water rights for each area of the State, we will try to give you as much lead time as possible in digging out the claims.

We would like to advertise the month of May as the filing period for the Anchorage, Palmer and Whittier Recording Districts. If it would be possible to have a list by mid-April or so it would be appreciated.

Again, thank you for your fine cooperation and attention given this matter in the past.

MAK:rwt
March 1, 1962

J. Ronald Brown, M.D.
Box 100
Cordova, Alaska

Dear Dr. Brown:

Re: Mineral resources of the Cordova area

I regret that the pressure of work caused by Legislative demands and activities and short handedness in this office has prevented an immediate reply as requested in yours of February 21.

Mr. Banta has also made a request for a geological party to do work in the Bering River Coal Field in behalf of the Cordova Chamber of Commerce. I answered his request in this particular regard on February 9. The Chamber, I presume, is working together with your Area Development Committee.

As I explained to the resources meeting in Cordova on January 12, to do this kind of work I have just 4 mining engineers (one for each of the four judicial districts) and one mining geologist for the whole State. I have requested more geologists, but do not know how many, if any, will be authorized, and appropriated for by the Legislature. My one mining geologist is committed elsewhere on investigations during the approaching summer. I could possibly send the two engineers from the first and third districts in for a short period, depending on how their time works out with regard to requests from prospectors and miners for field assistance, which is the foremost duty of the engineers. However, the cover in the Bering River Field is heavy, and the work that one or two men can do toward exposing or blocking out tonnages of coal would not be too effective. They could possibly resample the same openings made by Douglas Colp in his work for Jewell Ridge a few years ago. I am presently endeavoring to get some additional information for your use from private sources, but will probably not be successful. We will put together what information we can obtain from all available sources, and then again consider what limited field work we might be able to do.

There seems to be little interest in the Bering River Field right now. We think this is due in part to a negative report by a private individual (not Mr. Colp) whose company was simultaneously looking into coal possibilities elsewhere. He even questioned the coking quality of the coal. At any rate, will try to put something together here to counteract that.
Mr. J. Ronald Brown, M. D.
March 1, 1962
Page Two

Apparently the Japanese are not interested in the Field at the moment. Mr. Banta has said twice that there is a Pacific Coast market. I have done some checking and find no evidence of this. Knowledgeable sources don't think so. If you or Mr. Banta would let me know what and where this market is, it would help us in determining what to do on the matter.

With regard to hardrock minerals, I prepared a survey of mining properties and prospects of the areas to the east and north of Cordova, including the McCarthy country, ten years ago. This was for Cordova to use in promoting the Copper River Highway. Today, there is no further available basic geological information on those properties than there was then. Mr. John LeFevre still has printed copies of that survey, and you could use it for your purpose rather than our doing it over again. If it will help, we can do a similar survey of the prospects of Prince William Sound as additional information. You might look at the old one and tell me what you think.

On petroleum developments and possibilities, I am informed that Mr. Bert Hall has requested Mr. Donald Bruce, petroleum geologist of this Division, to furnish information, so I will leave this to Mr. Bruce. Mr. Bruce is authorized to meet with you people in conjunction with one of his inspection trips from Anchorage to the well drilling operations along the Gulf.

Regarding metals again, I firmly believe there will in time be significant copper discoveries made in the McCarthy district, and that once again that area will see active mining. How soon this will happen depends on how much modern prospecting and exploration is done in the area, which in turn depends to a significant extent on the amount of information, assistance, and encouragement extended to prospective operators by the State. I went into this problem at Cordova on January 12. You could play the tape back again and perhaps glean some useful comments, although I am not sure I said anything that would be useful to your present project.

As to the benefits Cordova and the near vicinity will reap from prospective operations in the McCarthy area, it depends of course, on how soon the Copper River Highway is completed. Construction on the highway should accelerate, I should think, together with mining developments.

On the subject of roads, the road into the Bering River Coal Field is of a different complexion. Its completion will hasten developments in the Field, as well as connect you to possible oil developments in the same area, and it should be promoted with all our energy. Even if the stripping of the right-of-way could be done (which contract was ready to go at one time) it would facilitate the moving of heavy mining and other equipment to the Field during the winter.

Sincerely,

James A. Williams, Director
Division of Mines and Minerals

cc: Donald Bruce

JAW: je
March 1, 1962

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Sincerely,

James A. Williams, Director
Division of Mines and Minerals

cc: Donald Bruce

JAW: je
James Williams
Director of Mines
Juneau, Alaska

Dear Mr. Williams:

I have been designated Secretary of the Cordova Area Development Committee. I have been asked to contact you officially as the representative of this committee. It is our function to begin economic planning for the economic development of this area.

From past experience, we know that the greatest possibilities for the future economic development of this area, is in the field of minerals and mining. However, we can find virtually nothing to help us in the preparation of plans for such development.

We would appreciate it if you would survey all available information on the mineral resources of this area, including the Chitina Valley and Katalla and Yakataga areas, which are all within our scope. We would appreciate a brief review of what information is available. We would also like to know how we can obtain copies of all such reports and past investigations, at least all which might be of value to us in planning, or in interesting private companies in investment and/or research.

In addition, please consider this a formal request for a party to begin geological investigations in this area this summer, with special reference to the Katalla coal fields, and copper and other minerals in the McCarthy area.

I would appreciate an immediate reply from you as to how you plan to deal with this request.

Sincerely,

J. Ronald Brown, M.D.
February 9, 1962

Mr. Louis D. Banta
Chairman, Mining Committee
Cordova Chamber of Commerce
Cordova, Alaska

Dear Bob:

Re: Bering River Coal Field

I have your letter requesting work in the Bering River Coal Field. You know, of course, that the cover there is heavy, and that the field work that one or two men could do would not be too effective in exposing much structure for calculating and mapping blocks of coal. My one geologist is pretty well committed elsewhere this summer. I might be able to send two engineers in, depending on how things work out. Before I commit us to field work, let me see what information we can put together from other sources. I might be able to obtain some of the information that resulted from the Jewell Ridge work. I will keep you posted.

You are correct regarding the Jewell Ridge permits. They have expired. Do you know of anyone intending to apply for them?

As I mentioned when at Cordova, if you have definite evidence of a Pacific Coast coal market that would purchase Bering River coal, I would like to be informed on it. It would certainly help justify further work in the field.

Sincerely,

James A. Williams, Director
Division of Mines and Minerals
Intelligence has reached us that Jewel Ridge has relinquished their leases on the Bering River coal field and we are of the opinion that you might be able to help us.

We feel that if you would send up a geologist and an engineer to study the ground and see if the deposit as shown and on present records would not support a much smaller operation than that proposed by the Japanese sale, that we might interest a west coast operation.

I believe this would be better for the economy of Cordova than such a large scale production as contemplated by Jewel Ridge. This would only require some field study and the proof on notes which must be in existence from former studies of the field. Something in the nature of 200,000 to 300,000 tons per year production.

How do you feel about this? I note in your talk to us you mentioned that your geologist could only go out for studies if we asked for it, so we are making this a formal request that your department make such studies.

I hope we can get something started on this and would appreciate the geological study being done this year.

Sincerely Yours,

Chairman, mining committee
February 14, 1962

Mr. Douglas Colp
Exploration Services
P. O. Box 2061
Fairbanks, Alaska

Dear Doug:

Re: Bering River Coal Field Information

The Cordova Chamber of Commerce is requesting me to send someone from this Division into the Bering River Coal Field to make further studies this summer. The purpose of this work would be to put together some new information that will help interest a market of 200,000 to 300,000 tons per year on the Pacific Coast which the Chamber officials claim exists. As you know, what work the one or two men I would be able to send in there would not get too much accomplished toward uncovering much structure or doing much geological mapping or getting much coal blocked out.

The Jewell Ridge Coal Company permits have expired. As a matter of ethics, and also of profits from future work that you might do there for someone else, are you in a position to release to this Division any of the information or reports you have in your possession as a result of the work done for Jewell Ridge? If so, perhaps we could use it to an advantage in working up information for the Cordova people. If this proposal or request is out of line in any way, please do not hesitate to say so. I am not sure that I should even ask you about it. Will appreciate hearing from you on it.

Sincerely,

James A. Williams, Director
Division of Mines and Minerals

JAW:je
McCarthy Quadrangle

Head of Galconda Creek, tributary of North Fork of Bremner River

Yellow Band Gold Mines - 7 gold lode claims - 1960 assessment work

Near McCarthy and on McCarthy Creek

C. Henry Schulze - 4 copper lode claims silver
Green Butte Copper Co. - patented claims - M.S. 1098 A & B (copper/lode)
Mrs. Jean Tjosevig Jackson - patented claims - M.S. 1512 A & B (copper lode)
State of Alaska - delinquent patented claims - M.S. 875 (copper placer)

Between Mizina River and McCarthy Creek, north of Sourdough Peak

Freemont Mining Co. - 43 copper lode claims

1/2 mile NE of Bonanza Mine near Mother Lode

State of Alaska - delinquent patented claims - M.S. 874 (copper lode)

Northwesterly from 5500' level Mother Lode Adit

Raymond Trotchau - 1 copper-silver claim

Nikolai Creek, 3 1/2 miles from junction with McCarthy Creek

Galena Bay Mining Co. - patented claims - M.S. 546 (copper lode)

West side of Prophyry Mountain at 4100 feet elevation

Archie Ransell - 4 moly claims

May and Young Creek

Martin Weinrick and Robert E. Clud - 53 gold placer claims (Young Creek)
Walter L. Holmes - 2 gold placer claims (Calamity Gulch)
Walter L. Holmes - 2 gold placer claims (May Creek)

North of junction of Boulder and Dan Creeks, on Boulder Creek

J.B. O'Neill & Walter L. Holmes - 4 copper lode claims

On or adjacent to Dan Creek, tributary of Mizina River

J.B. O'Neill - 9 gold lode claims
J.B. O'Neill et al. - 17 gold placer claims
Dan Creek Placer Mines, Inc. - patented claims - M.S. 923, 948, 1465
Martin F. Radovan - 2 gold placer claims - (1959 last recorded A.N.)
State of Alaska - delinquent patented claims - M.S. 1595 (gold placer)

Chititu Creek, tributary of Mizina River

State of Alaska - delinquent patented claims - M.S. 1087, 1088, 1401, 1405, 1406 (gold placer)
State of Alaska - delinquent patented claims - M.S. 1457 (gold placer)
Rex Creek

John S. Taylor - 1 gold lode claim
John S. Taylor - 2 cinnamon claims
John S. Taylor - 3 moly claims
Walter Lee Holmes - patented gold placer claims - M.S. 1456
State of Alaska - delinquent patented claims - gold placer - M.S. 1462, 1403, 1404, 1454, 1473, 1499, 1690, 1691, 1692, 1695
John S. Taylor - 1 placer claim - head of Rex Creek (gold)
Walter L. Holmes - 2 gold placer claims
Burton A. & Pearl Williams - patented gold placer claims

Glacier Creek

Charles Nelson, Charles McCarthy - patented claims - M.S. 1588 (copper lode)
Delano Mining Co. - 20 copper lode claims
James McGavock, Carl Anderson - patented claims - M.S. 1466 & 1467 (copper lode)

Idaho Gulch, tributary of Copper Creek
Dan Creek Mining Co. - patented claims - gold placer - M.S. 949

In the mountains between Root Glacier and McCarthy Creek (all lodes - Cu-Ag)

Kenscott Copper Corp. - patented claims - many
State of Alaska - delinquent patented claims (Cu,Ag) - M.S. 1561 A&B, 1062 A&B, 1572
### COMPLETE LIST OF U.S. GEOLOGICAL SURVEY REFERENCES TO PRINCE WILLIAM SOUND COPPER DEPOSITS

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### MINERAL DEPOSITS IN THE MORE REMOTE AREAS OF THE CORDOVA, MCCARTHY, AND CHITINA DISTRICTS

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<th>Principal Minerals</th>
<th>Description</th>
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<td>1. McKinley Lake Prospects</td>
<td>Lode Gold</td>
<td>Pyrite Arsenopyrite</td>
<td>Former producer. Several properties on a number of gold-quartz veins from a few inches to 20 feet wide and paralleling the beds of the Orca Sedimentaries. Values average $10 to $20 with assays reported to $100 at the old price.</td>
<td>USGS Bull. 542, pp. 78-80</td>
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<td>3. Bering River Coal</td>
<td>Coal</td>
<td>Coal</td>
<td>High grade coal, including coking coal and anthracite, is definitely known here. Reports have not been too enthusiastic but very little actual prospecting or development work has been done.</td>
<td>USGS Circ. 146, 1951</td>
</tr>
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<td>6. Yellow Band Group</td>
<td>Lode Gold</td>
<td>Gold Pyrite</td>
<td>Mineralized dike and vein in graywacke and slate. One channel sample across the dike was 7 feet long and was $20 per ton. Other assays ran from $14 to $400.</td>
<td>Roehm 1936-38</td>
</tr>
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<td>7. Golconda Creek Placers</td>
<td>Lode gold, Placer</td>
<td>Gold, Native</td>
<td>Past producer. Shallow gravel resulting from older reworked channel. A few benches left from older channel.</td>
<td>USGS Bull. 576, pp. 45-48</td>
</tr>
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<td>8. Bremner Mining Co.</td>
<td>Lode gold, Placer</td>
<td>Pyrite, Gold</td>
<td>Past producer. Several gold-quartz veins in area of slates and graywackes that are cut with light colored pyrophyllitic dikes.</td>
<td>USGS Bull. 894 p. 128</td>
</tr>
<tr>
<td>9. Bear Mine Group</td>
<td>Lode gold, Native</td>
<td>Gold, Silver</td>
<td>Fissure filling varying from a few inches to $\frac{3}{4}$ feet and traceable for 250 feet. Roehm reports values from $1.75$ to $22.82$ and recommends further work. Other smaller veins present.</td>
<td>Roehm 1936</td>
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<td>10. O'Hara Lead-Zinc Prospect</td>
<td>Lead-Zinc, Pyrite</td>
<td>Galena, Sphalerite</td>
<td>Twelve-foot ore body carrying 10 to 15% lead, also sphalerite and pyrite. Sheppard considered it a good prospect. Another similar deposit reported 5 miles north.</td>
<td>USGS unpub. 1944 Sheppard 1925</td>
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<td>11. Canyon Creek</td>
<td>Copper, Native</td>
<td>Pyrite, Chalcopyrite</td>
<td>Minerals are in peridotite, which is probably faulted into limestone. It is reported that assays show nickel also.</td>
<td>USGS Bull. 576, p. 53</td>
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<td>12. Spirit Mountain Prospect</td>
<td>Nickel-Copper, Native</td>
<td>Pyrrhotite, Chalcopyrite, Bravoite</td>
<td>Peridotite and pyroxenite, carrying sulfides intruded into Carboniferous metamorphics. Estimated reserves, 6,500 tons in sight. Sample assays from 0.22 to 7.6% nickel and 0.12 to 1.56% copper.</td>
<td>USGS Bull. 943-C pp. 49-57</td>
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<td>13. Falls Creek</td>
<td>Copper, Native</td>
<td>Bornite, Chalcopyrite, Covellite</td>
<td>Ore minerals in greenstone. Geology confused.</td>
<td>USGS Bull. 576, p. 52</td>
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<td>Location</td>
<td>Principal Metal(s)</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>14</td>
<td>Surprise Creek</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>Shattered zone in greenstone contains quartz plus ore minerals.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pyrite</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chrysocolla</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chalcocite</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Tenas Creek</td>
<td>Copper</td>
<td></td>
<td>No information on this except that it is marked on Miller's map.</td>
</tr>
<tr>
<td>16</td>
<td>Blakney Prospect</td>
<td>Copper</td>
<td>Pyrite</td>
<td>Fractures in fault zone in greenstone filled with sulphides forming small veins of sulfides totaling about 3 feet in width. Very promising prospect.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chalcopyrite</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Mile 100 &amp; vicinity</td>
<td>Lode gold</td>
<td>Galena</td>
<td>One gold-quartz vein which is 4 feet thick, and another vein which is reported to carry values of $45 at old price.</td>
</tr>
<tr>
<td>18</td>
<td>Chitina Prospect</td>
<td>Lode gold</td>
<td>Gold</td>
<td>Nothing on this except for Miller's map symbol.</td>
</tr>
<tr>
<td>19</td>
<td>Benito Creek</td>
<td>Lode gold</td>
<td>Pyrite</td>
<td>Three-foot quartz vein in diorite and basalt.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Arsenopyrite</td>
<td>Vein well defined for 600 feet. Carries free gold, some of it in large pieces, and silver. Two other large quartz veins nearby.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chalcopyrite</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Elliot Creek</td>
<td>Copper</td>
<td>Bornite</td>
<td>Deposits in greenstone along fractures as filling and replacements. Prospects hold great promise and cover area of six miles along upper part of creek. Over 15 properties were staked at one time, some of which carried good gold values also.</td>
</tr>
<tr>
<td>Number</td>
<td>Location</td>
<td>Metal</td>
<td>Minerals</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------</td>
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<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>21.</td>
<td>Copper Creek</td>
<td>Copper</td>
<td>Bornite, Chalcopyrite, Malachite, Azurite</td>
<td>Nine properties on three forks of Copper Creek along the limestone-green stone contact. Some are in the limestone as replacement deposits, and some are in the greenstone. No producers, but one contains a significant amount of indicated ore.</td>
</tr>
<tr>
<td>22.</td>
<td>Rock Creek</td>
<td>Copper</td>
<td>Bornite, Chalcopyrite</td>
<td>Crushed calcite zone 3 to 3½ feet wide in greenstone carries small irregular bodies of ore minerals.</td>
</tr>
<tr>
<td>24.</td>
<td>Silver Star Group</td>
<td>Copper-Silver</td>
<td>Tetrahedrite, Galena, Azurite, Malachite</td>
<td>Fault zone 30 inches thick is filled with ore-bearing quartz. The chief mineral is the silver-bearing tetrahedrite. Assays show silver from 25 to 700 ounces, copper from 1 to 32%, and some bismuth.</td>
</tr>
<tr>
<td>25.</td>
<td>Mineral Creek</td>
<td>Copper</td>
<td>Pyrite, Chalcopyrite</td>
<td>Numerous mineralized faults. Assays reported to also show $9.75 in gold (old price) and 3 ounces of silver.</td>
</tr>
<tr>
<td>26.</td>
<td>Lost Cabin Group</td>
<td>Copper</td>
<td>Chalcocite, Chalcopyrite, Bornite</td>
<td>Copper is disseminated in greenstone below the limestone and without gangue.</td>
</tr>
<tr>
<td>27.</td>
<td>Good Enough Group</td>
<td>Copper</td>
<td>Native Copper, Chalcocite, Cuprite</td>
<td>Mineralized fracture zones in basalt. Quartz and calcite associated. Some greenstone replacement.</td>
</tr>
<tr>
<td>28.</td>
<td>Fall Creek</td>
<td>Copper</td>
<td>Bornite, Chalcocite, Native Copper, Cuprite</td>
<td>Minerals in fractured amygdaloidal greenstone.</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Metal</td>
<td>Minerals</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>29</td>
<td>Surprise Creek</td>
<td>Copper</td>
<td>Chalcocite, Chalcopyrite, Bornite</td>
<td>Three or four prospects on mineralized shear zones up to four feet wide in greenstone which is intruded by granodiorite.</td>
</tr>
<tr>
<td>30</td>
<td>Roaring Creek</td>
<td>Copper</td>
<td>Chalcocite, Native, Copper</td>
<td>A fairly large area over which the copper minerals are scattered in small amounts through the greenstone. This creek offers excellent opportunity for a limited amount of water power.</td>
</tr>
<tr>
<td>31</td>
<td>Porcupine Creek</td>
<td>Copper</td>
<td>Chalcopyrite, Malachite</td>
<td>A few properties developed in the Nikolai greenstone. Small fissures in the sheared country rock. A little gold is reported to be included.</td>
</tr>
<tr>
<td>32</td>
<td>Clear Creek</td>
<td>Copper</td>
<td>Pyrite, Chalcopyrite, Bornite</td>
<td>Several properties near the limestone-greenstone contact, but on the greenstone side. Prospects not too good, although a large amount of development work was done on one in the expectations of a low-grade operation. Small production.</td>
</tr>
<tr>
<td>33</td>
<td>Nugget Creek</td>
<td>Copper</td>
<td>Bornite, Chalcopyrite, Pyrite, Native, Copper</td>
<td>Good and extensive mineralization in amygdaloidal basalts and greenstones. However, extensive underground workings appear to indicate that minerals fade with depth. Small production.</td>
</tr>
<tr>
<td>34</td>
<td>Finch Group</td>
<td>Copper</td>
<td>Bornite, Chalcocite</td>
<td>A group of prospects on small veins in fractured and faulted greenstones.</td>
</tr>
<tr>
<td>35</td>
<td>Mayflower Claim</td>
<td>Copper</td>
<td>Bornite, Chalcocite</td>
<td>Minerals are in faulted fracture zone which also contains quartz. Possibilities of ore body are good. Location is in very rugged terrain.</td>
</tr>
</tbody>
</table>
### Berg Creek Claim
- **Claim:** Copper
- **Minerals:** Pyrite, Chalcopyrite
- **Description:** Two to three foot shear zone near contact. Mostly staining.

### Berg Creek
- **Minerals:** Pyrite, Chalcopyrite
- **Description:** Near the Berg Creek copper deposit. Veins are near diorite-limestone contact, and show a variety of phases of mineralization. Assays show values of up to $450, old price, but average is much less. Former producer.

### Berg Creek
- **Minerals:** Magnetite, Pyrite, Chalcopyrite
- **Description:** Minerals occur in veins in diorite which has intruded the nearby limestone. No production, but these prospects are very good and also carry gold and silver.

### Copper Queen
- **Minerals:** Pyrite, Garnet, Chalcopyrite, Magnetite
- **Description:** Considerable quantity of mineralization in greenstone near contact. Geology confused, but prospect good.

### MacDougall Creek
- **Minerals:** Pyrite, Pyrrhotite, Magnetite, Chalcopyrite
- **Description:** Several prospects in limestone - diorite contact area. Possibilities of ore bodies not great.

### Trail Creek
- **Minerals:** Iron and Copper Sulphides
- **Description:** Good outcrops, but underground work disclosed no ore.

### Kinney-Golden Property
- **Minerals:** Chalcopyrite
- **Description:** Seven claims on shale-limestone contact. Copper is found along the contact and in nearby greenstone.

### Lakina Prosp.
- **Minerals:** Chalcocite, Bornite, Native Copper
- **Description:** Veins along fracture planes in shear zone. Also native copper in greenstone at different location. Small production.
<table>
<thead>
<tr>
<th>Site</th>
<th>Metal</th>
<th>Minerals</th>
<th>Description</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>44. Hidden and Fourth of July Creeks</td>
<td>Copper</td>
<td>Bornite</td>
<td>Minerals are in greenstone along limestone contact in many places on both</td>
<td>USGS Bull.947-F,pp.119</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chalcopyrite</td>
<td>creeks. A little production on Fourth of July Creek.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chalcocite</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45. Regal Prospect</td>
<td>Copper</td>
<td>Malachite</td>
<td>Apparently no large bodies exposed. Malachite in shale at limestone-</td>
<td>USGS Bull.947-F,pp.101-103</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>greenstone contact.</td>
<td></td>
</tr>
<tr>
<td>46. Kennecott Copper Corp.</td>
<td>Copper</td>
<td>Chalcocite</td>
<td>Over a billion pounds of copper produced from four deposits in the</td>
<td>USGS Bull.947-F,pp.99-101</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Azurite</td>
<td>Chitistone limestone above the greenstone contact. Operation closed</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Malachite</td>
<td>because of lowering copper price, increasing costs, labor</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Covellite</td>
<td>difficulties, and lowering grade of ore.</td>
<td></td>
</tr>
<tr>
<td>47. Porphyry Mountain</td>
<td>Molybdenum</td>
<td>Molybdenite</td>
<td>Molybdenite-quartz vein in granite prophyry varying from 4 to 18 inches</td>
<td>Saunders1951</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>in width and exposed for 140 feet. Two channel samples show values of 1.83%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>and 0.87% molybdenum.</td>
<td></td>
</tr>
<tr>
<td>48. Tjosevig Prospect</td>
<td>Copper</td>
<td>Malachite</td>
<td>Minerals in thin films and veinlets in limestone.</td>
<td>USGS Bull.947-F,pp.104-105</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Azurite</td>
<td></td>
<td></td>
</tr>
<tr>
<td>49. Green Butte Mine</td>
<td>Copper</td>
<td>Chalcocite</td>
<td>Produced about 1,500 tons of high-grade copper ore. Copper in limestone</td>
<td>USGS Bull.947-F,pp.103-104</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bornite</td>
<td>close to contact. Ore averaged 1200 pounds of copper and 10 ounces of</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Malachite</td>
<td>silver to the ton. Significant quantities of ore probably remain.</td>
<td></td>
</tr>
<tr>
<td>50. Nikolai Prospect</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>No production. Copper in two shear zones in greenstone. One is exposed</td>
<td>USGS Bull.947-F,pp.106-108</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bornite</td>
<td>for 150 feet and is one to four feet thick. The other is smaller.</td>
<td>Wimmler 1924-1925, J.C.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Probably 1500 tons of 25% copper in sight.</td>
<td>Shepard 1926</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Commodity</td>
<td>Deposits Description</td>
<td>Reference</td>
</tr>
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</tr>
<tr>
<td>51.</td>
<td>Peavine Prospect</td>
<td>Copper</td>
<td>No geological information available. No production.</td>
<td>USGS Bull. 947-F, p. 120</td>
</tr>
<tr>
<td>52.</td>
<td>Broughton-Alaska Co.</td>
<td>Copper</td>
<td>On limestone-greenstone contact, but no further geological information available. No production.</td>
<td>USGS Bull. 947-F, p. 120</td>
</tr>
<tr>
<td>53.</td>
<td>Contact Gulch</td>
<td>Copper</td>
<td>On limestone-greenstone contact, but no further geological information available. No production.</td>
<td>USGS Bull. 947-F, p. 120</td>
</tr>
<tr>
<td>54.</td>
<td>Nelson Prospect</td>
<td>Copper</td>
<td>Small production. Openings in limestone filled by mineralization, which also replaced it along bedding planes and fissures. Over 130 tons of 60% material in sight. Very good prospect.</td>
<td>USGS Bull. 947-F, pp. 110-114, Roehm 1936</td>
</tr>
<tr>
<td>55.</td>
<td>Radovan Prospects</td>
<td>Copper</td>
<td>Minerals are in massive lenses, thin veins, fracture fillings, and as disseminated grains in a 20 foot layer of limestone for 200 feet. Smaller lenses and fissure fillings elsewhere.</td>
<td>USGS Bull. 947-F, pp. 110-114</td>
</tr>
<tr>
<td>56.</td>
<td>Erickson Prospect</td>
<td>Copper</td>
<td>Some production. Minerals are restricted to a 6 to 9 foot amygdaloidal greenstone flow. Native copper is the chief mineral. The average value is estimated at less than 3%, but parts of the bed may contain up to 10%.</td>
<td>USGS Bull. 947-F, pp. 117-118</td>
</tr>
<tr>
<td>57.</td>
<td>Westover Prospect</td>
<td>Copper</td>
<td>Minerals are in lenses, veins, and fractures, and ore also disseminated in the limestone. Bedding faults were the control. Small production. About 100 tons of 30% ore and 100 tons of 10% ore in sight.</td>
<td>USGS Bull. 947-F, pp. 108-110, Wimmler 1924-1925, Shepard 1926</td>
</tr>
<tr>
<td>Number</td>
<td>Location</td>
<td>Commodity</td>
<td>Minerals/Minerals &amp; Chemistry</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
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</tr>
<tr>
<td>59.</td>
<td>Dan Creek</td>
<td>Copper</td>
<td>Bornite</td>
<td>Several properties on mineralization in the greenstone. No production. Native copper in the placer gravels.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chalcopyrite</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chalcocite</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Native Copper</td>
<td></td>
</tr>
<tr>
<td>59.</td>
<td>Dan, Copper</td>
<td>Placer</td>
<td>Native gold</td>
<td>All past producers, but not worked out.</td>
</tr>
<tr>
<td></td>
<td>Chittitu, and Rex</td>
<td>Gold</td>
<td>Native Copper</td>
<td>These once profitable gold placers were shut down only because of economic conditions. Favorable reserves remain.</td>
</tr>
<tr>
<td></td>
<td>Creeks</td>
<td></td>
<td>Native Silver</td>
<td></td>
</tr>
<tr>
<td>60.</td>
<td>Williams Peak</td>
<td>Antimony-</td>
<td>Stibnite</td>
<td>Two narrow well-defined sheet-like veins which average about 14 inches in width. Assays show values in antimony up to 15% and in gold up to 1.1 ounces.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gold</td>
<td>Gold</td>
<td></td>
</tr>
<tr>
<td>61.</td>
<td>Young Creek</td>
<td>Placer</td>
<td>Native gold</td>
<td>Low grade ground, but a long stream. Little production. Native copper and silver associated.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gold</td>
<td>Native Copper</td>
<td></td>
</tr>
<tr>
<td>62.</td>
<td>Erickson Gulch</td>
<td>Copper</td>
<td>Sulphides</td>
<td>Copper sulphides in a shear zone in greenstone. Little work done on it.</td>
</tr>
<tr>
<td>63.</td>
<td>Canyon Creek</td>
<td>Molybdenum</td>
<td>Molybdenite</td>
<td>Vein reported to be 8 feet wide and in granite. The moly forms solid vein 12 inches thick, then in stringers through the quartz for the rest of the width. Very good prospect. Further moly reported by local prospector to show on Hawkins Glacier side.</td>
</tr>
<tr>
<td>64.</td>
<td>Hawkins Glacier</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>Vein carrying sulphides cuts greenstone. Nearby greenstone contains native copper.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Native Copper</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Minerals</td>
<td>Description</td>
<td>Source</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
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<td>-----------------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>65. Barnard Glacier and Chitina River</td>
<td>Copper, Lead</td>
<td>Chalcopyrite, Chalcocite, Galena</td>
<td>Throughout this area, copper mineralization is found. Galena also shows up in part of the area. The Martin Harrairs property is probably included in this area.</td>
<td></td>
</tr>
<tr>
<td>67. Kiagna River</td>
<td>Iron Ore</td>
<td>Sulphides</td>
<td>A large vein of sulphides crosses the branches of the Kiagna. It was staked as iron ore, but no work was done.</td>
<td></td>
</tr>
</tbody>
</table>
IN THE SUPERIOR COURT FOR THE STATE OF ALASKA  
THIRD JUDICIAL DISTRICT AT ANCHORAGE  

IN THE MATTER OF FORECLOSURE OF LIENS  
PURSUANT TO THE ALASKA REGISTRATION  
LAW OF 1953, AS AMENDED, BY THE STATE OF ALASKA  

LIST OF DELINQUENT PENALTIES ON REAL PROPERTY  
FOR FAILURE TO FILE A STATEMENT OF OWNERSHIP PRIOR TO DECEMBER 31, 1965  

Every person having any right, title or interest in or lien upon any parcel described in the list of delinquent penalties appearing below may redeem such parcel by paying to the Director, Division of Lands, Department of Natural Resources, 344 Sixth Avenue, Anchorage, Alaska, all of the sums listed in such list of delinquent penalties prior to the date of judgment, which will be taken after the expiration of eighty (80) days from the date of filing of such lists, or he may serve a duly verified answer upon the Attorney General or the Clerk or Court within said eighty-day period. Such answer shall set forth in detail the nature, character and amount of his interest and any defense or objection to the foreclosure of the lien. The caption of such answer shall contain a reference to the delinquent serial number of each parcel. The State will take judgment and possession of all parcels listed in the delinquent list except those which have been redeemed and with respect to which an answer has been filed. Property may thereafter be redeemed within one year from the date of judgment, and, upon such redemption, the former owner shall receive a quit-claim deed from the State. After the expiration of the one-year period following judgment, the former owner of record, or his assigns, is entitled to repurchase the property for the amount of the delinquent penalties appearing below if the State has not sold the property or devoted it to a public purpose and constructed improvement thereon.

DESCRIPTION OF PARCELS OF PROPERTY SUBJECT TO LIENS FOR FAILURE TO PAY THOSE PENALTIES IMPOSED BY ALASKA STATUTES 34.10 FOR A PERIOD OF AT LEAST ONE YEAR AFTER SAID PENALTIES BECOME DUE AND PAYABLE.  

<table>
<thead>
<tr>
<th>Delinquent Serial No.</th>
<th>Description</th>
<th>Area</th>
<th>Known Owner Thereof</th>
<th>Penalty</th>
<th>Interest</th>
<th>Advertising Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1-65</td>
<td>U.S.S. 3866, Lot 10</td>
<td>7,414 sq. ft.</td>
<td>Mike and Nida Miller</td>
<td>$10.00</td>
<td>$.60</td>
<td>$3.00</td>
</tr>
<tr>
<td>3-2-65</td>
<td>U.S.S. 3866, Lot 51</td>
<td>25,051 sq. ft.</td>
<td>Fred Gould</td>
<td>$10.00</td>
<td>$.60</td>
<td>$3.00</td>
</tr>
<tr>
<td>3-3-65</td>
<td>U.S.S. 941-1/7</td>
<td>19.87 acres</td>
<td>Frank J. Nolan</td>
<td>$10.00</td>
<td>$.60</td>
<td>$3.00</td>
</tr>
<tr>
<td>3-4-65</td>
<td>U.S.S. 941-1/8</td>
<td>135.96</td>
<td>Frank J. Nolan</td>
<td>$10.00</td>
<td>$.60</td>
<td>$3.00</td>
</tr>
<tr>
<td>3-5-65</td>
<td>U.S.S. 942-1/8</td>
<td>102.78</td>
<td>Frank J. Nolan</td>
<td>$10.00</td>
<td>$.60</td>
<td>$3.00</td>
</tr>
<tr>
<td>3-6-65</td>
<td>U.S.S. 944-1/7</td>
<td>81.53</td>
<td>Frank J. Nolan</td>
<td>$10.00</td>
<td>$.60</td>
<td>$3.00</td>
</tr>
<tr>
<td>3-7-65</td>
<td>U.S.S. 4016, Lot 3</td>
<td>5.00</td>
<td>John V. Hefkey</td>
<td>$10.00</td>
<td>$.60</td>
<td>$3.00</td>
</tr>
</tbody>
</table>

Filed with the Clerk of Court at Anchorage, Alaska, this 6th day of April, 1966

Civil Action Number 66-642 C

ROSCEO E. BELL, Director  
Division of Lands

UNITED STATES OF AMERICA  

State of Alaska

Roscoe E. Bell, duly qualified Director of the Division of Lands of the State of Alaska, being duly sworn, deposes and states: That he has prepared and read the foregoing pleadings and knows the contents thereof and that the list of delinquent penalties and interest, together with the other data set forth therein, are verily believed to be true and accurately reflect the contents of the original records and information on file in the office of said Director of the Division of Lands of the State of Alaska.

ROSCEO E. BELL, Director  
Division of Lands

Subscribed and sworn to before me this 5th day of April, 1966.

EDITH BUTCHER  
Notary Public in and for the State of Alaska  
My Commission expires November 9, 1968

Publish Saturday, April 16, 23, 30, May 7 & 14, 1966

ROSSCO E. BELL, Director  
Division of Lands
everyone broke into the birthday song.

The women's guild gave her a silver dish and brought out a lovely cake to celebrate the birthday and the great success of the show.

Three formal balls have become regular highlights of the Anchorage social season: the International Ball by the Alaska World Affairs Council in the fall, the Christmas Ball by the Anchorage Woman's Club, and the Crystal Ball by the Alaska Festival of Music in the spring.

All are major fund-raising events. Each group has wrestled annually with the idea of raising the long-standing charge of $25 per couple. Each has rejected it, until this year.

Next Saturday's Crystal Ball is the first event of its kind to require $30 per couple. Perhaps a now-larger Anchorage can and will support this rate.

Eight women and two men returned from their first trip to Europe Thursday with wide-eyed enthusiasm and very tired feet.

The group toured six countries in three weeks with Mrs. Jim Garrett organizing and arranging activities. Their visit to Garmisch-Partenkirchen in Germany was the highlight of the trip, said Mrs. Garrett.

The travelers were Mrs. Tyrone Powell, Mrs. Glen Fuller, Mrs. M. E. Walker, Mrs. Burt Johnston, Mrs. Douglas Teninty, Miss Dodie Johnson, Miss Rosalie White, Mrs. Anastasia Rykman, Oscar N. Ingold and Cletus Burger.

Sue Booth returned Sunday from more than two months outside visiting relatives after undergoing surgery at the Stanford Hospital in Palo Alto, Calif.

She stayed with her sister, Mrs. F. E. (Eleanor) Marshall, in Los Altos, Calif. Their excursion to Reno was not as profitable as Sue's winnings from the horse races in Portland but it was fun!

In Boise, Ida., she stayed with her mother, Mrs. Myrtle Arthur. Also, she visited with Ben Wheeler, formerly here with the Small Business Administration and the Matanuska Valley Bank, now living in Boise.

Another Alaskan she ran into was A. J. Peters, who was visiting his sister in Sunnyvale, Calif.

The second annual Decompression Party for Anchorage area legislators hosted by the Chuck Sassar's was a great success. Battles and bills were buried for booze and banter as only an informal potluck dinner party can accomplish.

While the 32 adults carried on inside the house, the Sassar's children and some friends were preparing to spend an adventurous night sleeping in a tent in the yard.

Slowly, the younger children drifted into the house and went to sleep in warm, cozy beds. The lone adventurer left in the tent was the Sassar's nine-year-old son.

When the party was over, the host said good-night to the hostess, bundled into warm clothing, crossed the lawn into the world of Man against Nature and joined his son in the tent.

Chuck found the experience educational: 1 cool night plus 1 sleeping bag equals stiff joints. But, as Continicus say, honorable No. 1 son with sporting father has happy childhood.
MEMORANDUM

To: Jim Williams, Director
Division of Mines & Minerals

THRU: L. T. Main
Lands Disposal Officer

FROM: Sue A. Wolf
Land Registration Clerk

DATE: August 4, 1966

SUBJECT: Chitina-McCarthy Mineral Sale

Attached is a copy of the successful bidders list showing the purchasers' name and address and the sale price. Quitclaim Deeds have been issued to the persons indicated by an asterisk.

SAW: jea

Attachment
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>ADL NO.</th>
<th>PURCHASER</th>
<th>ADDRESS</th>
<th>SALE PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>33084</td>
<td>John H. Huber</td>
<td>Box 2097, Fairbanks</td>
<td>$375.00</td>
</tr>
<tr>
<td></td>
<td>33085</td>
<td>Harry E. Hoerner</td>
<td>Star Route, Box 925, Chugiak</td>
<td>300.00</td>
</tr>
<tr>
<td></td>
<td>33086</td>
<td>Sidney &amp; Juanita Abbott</td>
<td>Box 100, St. Rt. A. Spenard</td>
<td>225.00</td>
</tr>
<tr>
<td></td>
<td>33087</td>
<td>Byron McDonough</td>
<td>Box 544, Anchorage</td>
<td>300.00</td>
</tr>
<tr>
<td></td>
<td>33088</td>
<td>Barbara A. Thomas</td>
<td>1001 Sunset Dr., Amarillo,</td>
<td>125.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Texas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>33089</td>
<td>Walter Wigger</td>
<td>900 Park Drive, Fairbanks</td>
<td>1,775.00</td>
</tr>
<tr>
<td></td>
<td>33090</td>
<td>Walter Wigger</td>
<td>900 Park Drive, Fairbanks</td>
<td>10,500.00</td>
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<tr>
<td></td>
<td>33091</td>
<td>Harold D. &amp; Ester T. DeWitt</td>
<td>Box 1374, Fairbanks</td>
<td>1,600.00</td>
</tr>
<tr>
<td></td>
<td>33092</td>
<td>O. H. Thorgaard</td>
<td>Box 1759, Fairbanks</td>
<td>6,100.00</td>
</tr>
<tr>
<td></td>
<td>33684</td>
<td>John H. Huber</td>
<td>Box 2097, Fairbanks</td>
<td>525.00</td>
</tr>
</tbody>
</table>

**UNITS 10 THROUGH 23 and Unit 25 WERE PULLED PRIOR TO AUCTION.**
The group will leave Juneau July 6 for Glacier Bay, Anchorage, Kenai Peninsula, Chenik Mountain, Lake Iliamna, Lake Clark, Cook Inlet, Nome, Kobuk, Candle, Kougarok, Lost River, Teller, Kotzebue, Fairbanks, University of Alaska, Nenana Coal Fields, Whitehorse, Juneau, Ketchikan, Prince of Wales Island, and return to Seattle July 13.

The purpose of the trip is to acquaint these officials with the size of the State, the number of known mineralized areas, the old mining districts and the remarkable mining activity on the Canadian side of the border.

MORE PATENTED MINING CLAIMS FOR SALE

DATE OF AUCTION: July 14, 1966
TIME OF AUCTION: 1:00 P.M.
PLACE OF AUCTION: Copper Center Roadhouse

Subject to the provisions of Section 38.05.050, Title 38, Alaska Statutes, and pursuant to the regulations promulgated thereunder, the Director of the Division of Lands or his authorized representative will sell the following lands within the Chitina and McCarthy Recording Districts:

Twenty-five units of foreclosed mining claims all classified as Utility. Unit numbers, legal description, acreage, and minimum acceptable bids are as follows:

<table>
<thead>
<tr>
<th>UNIT</th>
<th>DESCRIPTION</th>
<th>ACREAGE</th>
<th>MINIMUM BID</th>
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<tbody>
<tr>
<td>1</td>
<td>USMS 547</td>
<td>41.22</td>
<td>$200</td>
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<td>2</td>
<td>USMS 613</td>
<td>41.32</td>
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<tr>
<td>3</td>
<td>USMS 654</td>
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<tr>
<td>4</td>
<td>USMS 655</td>
<td>38.35</td>
<td>200</td>
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<td>5</td>
<td>USMS 656</td>
<td>19.49</td>
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<tr>
<td>6</td>
<td>USMS 873</td>
<td>289.10</td>
<td>1,450</td>
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<tr>
<td>7</td>
<td>USMS 874, 1081A, 1082A, 1082B, 1082C, 1572</td>
<td>246.74</td>
<td>1,225</td>
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<tr>
<td>8</td>
<td>USMS 875</td>
<td>160.30</td>
<td>800</td>
</tr>
<tr>
<td>9</td>
<td>Tom Thumb, Tom Thumb #2, Lucky Boy, Valdez, York, Wilkes-Barre, One Girl and Comstock Lodes in USMS 893</td>
<td>165.22</td>
<td>825</td>
</tr>
<tr>
<td>10</td>
<td>USMS 1087</td>
<td>56.96</td>
<td>275</td>
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<tr>
<td>11</td>
<td>USMS 1088</td>
<td>18.29</td>
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<td>12</td>
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<td>USMS 1090</td>
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<td>USMS 1091</td>
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<td>15</td>
<td>USMS 1092</td>
<td>16.21</td>
<td>100</td>
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<td>16</td>
<td>USMS 1095</td>
<td>63.66</td>
<td>325</td>
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<td>17</td>
<td>USMS 1401</td>
<td>16.53</td>
<td>100</td>
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<tr>
<td>18</td>
<td>USMS 1402</td>
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<td>19</td>
<td>USMS 1403</td>
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<td>325</td>
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<tr>
<td>20</td>
<td>USMS 1404</td>
<td>94.80</td>
<td>475</td>
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<tr>
<td>21</td>
<td>USMS 1405 and Rex Gulch Bench #1 and #2, White Gulch Bench #1 and #2, Mosquito Bench, Ruth and Jolly Gulch Bench #1, all in USMS 1473</td>
<td>279.25</td>
<td>1,400</td>
</tr>
</tbody>
</table>
Printing has been completed on nearly all of the reports to be issued by the Division for field work accomplished during the 1965 field season. These reports are now in the process of being assembled and will be ready for distribution in early July. To be released are:


Geologic Report No. 20, Geological and Geochemical Investigation in the Eureka Creek and Rainy Creek areas, Mt. Hayes Quadrangle, Alaska, by A.W. Rose.


Geologic Report No. 22, Geology and Geochemistry of the Nixon Fork Area, Medfra Quadrangle, Alaska, by Gordon Herreid.


Yet to be edited is Geological Report No. 23 on Hannum Creek.

NOTICE OF COMPETITIVE COAL LEASE SALE NO. 3

The Division of Lands, Department of Natural Resources, will offer for competitive leasing for coal the lands described as follows:

Tract #1
T. 19N., R.2E., Seward Meridian
Section 22, 80.00 acres, more or less

Tract #2
T. 19N., R.2E., Seward Meridian
Section 23, 880.00 acres, more or less
STATE OF ALASKA
Inter-Department Route Slip

TO: Division of Mines & Minerals

ATTN: Juneau

☐ Approval  ☐ Note & Return
☐ Signature  ☐ Initial & Return
☐ Comment  ☐ Return As Requested
☐ Contact Me  ☐ Return For Approval
☐ Prepare Reply  ☐ Necessary Action
☐ For Your File  ☐ Your Information

Remarks:

From: Land Registration  Date: 7/26/66

By: Sue Wolf
MEMORANDUM
State of Alaska

To: Jim Williams, Director
Division of Mines & Minerals

From: L. T. Main
Lands Disposal Officer

DATE: July 27, 1966

SUBJECT: Redemption of Foreclosed Mineral Surveys

Quitclaim Deeds were issued on July 20, 1966, to Manufacturers Hanover Trust Company, Trustees under Deed of Trust made by John E. Andrus, releasing the State's interest in U. S. Mineral Surveys 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1401, 1402, 1403, 1404, 1405, 1406, 1454 and 1473.

A Quitclaim Deed was not issued for USMS 1457 because we have not received proof of ownership; however, they did file a Statement of Ownership and pay the penalty that was due on it.

SAW: jei

cc: Fairbanks Area Office
Juneau Area Office
MINING CLAIM HOLDERS IN THE KODIAK RECORDING DISTRICT

November 29, 1966

Edwin Seiler & John Cooksey
King Cove, Alaska

George Cornelius et al
Box 484
Kodiak, Alaska

Bill Davis
2919 N. 36 Street
Phoenix, Arizona

A. E. Gay
c/o B. C. Hamilton
508 Sixth Avenue
Anchorage, Alaska

Cecil McCord et al
Box 2047
Kodiak, Alaska

S. E. Lee and
Mildred Markham
(no address)

Kodiak Exploration Co.
George Cornelius, President

Grace & Bob Hightower
(no address)

Patrick Lynch
(no address)

Marion Owens and
Ben Deadman
Box 23
Kodiak, Alaska

Harold Pratt with
Donald & Gerald Clark
(no address)

Donald Petacchi
(with George Cornelius)

Gerald H. Clark
(no address)

Tom von Scheele
(no address)

Clara Helgason
(no address)
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(with George Cornelius)

Gerald H. Clark
(no address)

Tom von Scheele
(no address)
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<thead>
<tr>
<th>Name of Owner &amp; No. of Claims</th>
<th>Date of Location</th>
<th>Last Assessment Work</th>
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<tr>
<td>Kodiak Exploration Co. 1</td>
<td>1956</td>
<td>None</td>
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<tr>
<td>George Cornelius</td>
<td></td>
<td></td>
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<tr>
<td>Niel &amp; Robert Vonscheele 2</td>
<td>1953</td>
<td>None</td>
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<tr>
<td>John Cooksey with 3</td>
<td></td>
<td></td>
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<tr>
<td>Edwin W. Seiler (King Cove, Alaska)</td>
<td></td>
<td>None</td>
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<tr>
<td>George Cornelius 5</td>
<td>1957</td>
<td>None</td>
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<tr>
<td>George Cornelius with 2</td>
<td>1954</td>
<td>1956 Relocation</td>
</tr>
<tr>
<td>Nels Christiansen</td>
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<td></td>
</tr>
<tr>
<td>Donald Petacchi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alfred Torgramsen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charles Hamilton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emil Knudsen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>George Cornelius with</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donald Petacchi</td>
<td></td>
<td></td>
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<tr>
<td>Harold Lawhead</td>
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<td>Emil Knudsen</td>
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<td>George Cornelius with</td>
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<td>Donald Petacchi</td>
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<tr>
<td>Alfred Torgramsen</td>
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<tr>
<td>George Cornelius with</td>
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<td>Chester C. Fox</td>
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<tr>
<td>Emil Knudsen</td>
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<td>George Cornelius with</td>
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<tr>
<td>Henry Neseth</td>
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<tr>
<td>Nels Christiansen</td>
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<td>Dan Petacchi</td>
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<td>Charles Hamilton</td>
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<tr>
<td>Emil Knudsen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>George Cornelius with</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nicholas Anderson</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas Vonscheele</td>
<td></td>
<td></td>
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<tr>
<td>Henry Neseth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>George Cornelius with</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neseth, Cecil Brown, Curtis Saxton, Robert Hoag, Vonscheele, Harold Lawhead, Rodney Saxton &amp; Ken Christofferson</td>
<td></td>
<td>1962</td>
</tr>
<tr>
<td>Robert Danklefsen, Robert Hoag 1</td>
<td>1955</td>
<td>None</td>
</tr>
<tr>
<td>Clara Helgason</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grace &amp; Bob Rightower</td>
<td>1954</td>
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<tr>
<td>Kodiak Exploration Co. 62</td>
<td>1954</td>
<td>1962</td>
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<tr>
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<td>1956</td>
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<tr>
<td>Name</td>
<td>Year</td>
<td>Notes</td>
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<td>-------</td>
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<tr>
<td>Patrick Lynch</td>
<td>1954</td>
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<tr>
<td>Donald Petacchi and George Cornelius</td>
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<tr>
<td>Donald Petacchi</td>
<td>1954</td>
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<tr>
<td>Gerald R. Clark</td>
<td>1958</td>
<td>None</td>
</tr>
<tr>
<td>Tom VonScheele &amp; Willard Hall</td>
<td>1959</td>
<td>None</td>
</tr>
<tr>
<td>Harold Pratt with</td>
<td>1959</td>
<td>None</td>
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<tr>
<td>Donald &amp; Gerald Clark</td>
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<tr>
<td>Sam Gamblin</td>
<td>1959</td>
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<tr>
<td>Glenn A. Arbour with</td>
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<td>1962</td>
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<td>Mike Fitzgerald</td>
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<tr>
<td>Henry Neseth</td>
<td></td>
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<tr>
<td>Tom &amp; Leta VonScheele</td>
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<tr>
<td>Geo. &amp; M. Cornelius</td>
<td></td>
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<tr>
<td>Henry &amp; Neville Waterfield</td>
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<td></td>
</tr>
<tr>
<td>Russell Wright</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harold &amp; Vivian Leachard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Mr. V. M. Anderson  
Assistant Manager  
State and Local Tax Department  
Union Carbide Corporation  
270 Park Avenue  
New York, N. Y. 10017

Dear Mr. Anderson:

According to information in our files, your chrome claims are located in the Kenai Borough.

If you will write to Mrs. E. R. Pomeroy, Kenai Peninsula Borough, 1036 M Street, Anchorage, Alaska 99502, I am sure that she can answer your questions.

Very truly yours,

(Mrs.) Dorothy Milholen, Minerals Analyst  
Division of Mines and Minerals
VIA AIR MAIL

October 7, 1965

State of Alaska
Department of Natural Resources
Division of Mines and Minerals
Box 1391
Juneau, Alaska

Attention: Mr. William H. Race,
Mining Engineer

Dear Mr. Race:

In your letter dated March 31, 1965, you indicated that you were in the process of compiling mining claim ownership information for the various taxing boroughs of Alaska and that filing and taxation would take place in the subsequent months.

It would be very much appreciated if you could advise the correct name and address, and the borough, to which correspondence may be directed in order to obtain the proper forms for filing returns covering our chrome claims which, I understand, could possibly be located in the Kenai Borough.

Anything that you may send us concerning this will be very welcome.

Very truly yours,

V. M. Anderson
Assistant Manager

VMA/ljs
May 4, 1965

Mrs. E. R. Pomeroy
Kenai Peninsula Borough
1036 M Street
Anchorage, Alaska

Dear Roxy:

Transmittal of Kenai Borough Mining
Claim Information

Since I do not know the address of your Borough, I am sending this claim information to your home address. I understand the Borough Chairman drops in there once in a while. You can hand this to him on his next visit.

We have included all unpatented claims apparently located within the Borough boundaries which have been located since 1960 and those prior to 1960 for which assessment work has been recorded since 1960. We have also included patented claims. Note that claims which may lie on the wrong side of the boundary are marked with an asterisk.

There are not as many claims as I had thought. I had not realized how many of them had lapsed. Hope this will be of assistance to the Chairman.

Sincerely,

James A. Williams, Director
Division of Mines and Minerals

JAW:mez
Enclosure
**MINING CLAIMS IN THE KENAI BOROUGH**

**APOGHAK QUAD.**  - nothing

**MT. KATMAI QUAD.**  - nothing

**ILIAMNA QUAD.**

<table>
<thead>
<tr>
<th>Name of Owner &amp; Address</th>
<th>Number of Claims</th>
<th>Date of Location</th>
<th>Last Recorded Assessment Work</th>
</tr>
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<tbody>
<tr>
<td>Pan American Petroleum Corp.*</td>
<td>289</td>
<td>1964</td>
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<tr>
<td>Yuma Co.*</td>
<td>17</td>
<td>1964</td>
<td></td>
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<tr>
<td>c/o A.E. Milner</td>
<td></td>
<td></td>
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<tr>
<td>Box 4-00</td>
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<tr>
<td>Spenard</td>
<td></td>
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<tr>
<td>Donald Fell et al.</td>
<td>18</td>
<td>1964</td>
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</tr>
<tr>
<td>c/o John Roderick</td>
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<td></td>
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<tr>
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<tr>
<td>Anchorage</td>
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<tr>
<td>Great Alaskan Exploration Co.</td>
<td>8</td>
<td>1964</td>
<td></td>
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<tr>
<td>c/o Sewell Faulkner</td>
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<tr>
<td>Jack White Co.</td>
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**LINE HILLS QUAD.**  - nothing

**TYONEK QUAD.**

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<td>Clarence Miller</td>
<td>1</td>
<td>1959</td>
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<td>Ted Tellefson, Albert Bolgar</td>
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<td>Star Route B, Box 3894, Spenard</td>
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<td>S.A. Liening</td>
<td>7</td>
<td>1958</td>
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<tr>
<td>616 Jones Bldg., Seattle, Washington</td>
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<td>Kennecott Copper Corp.</td>
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<td>M.S. 782</td>
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<td>161 East 42nd, New York</td>
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<tr>
<td>Radco, Inc.</td>
<td>32</td>
<td>M.S. 774</td>
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<td>1700 Bryant Bldg.,</td>
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<td>Kansas City, Missouri</td>
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<td>John Petersen</td>
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<td>c/o Carl Petersen</td>
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<td>Geyserville, California</td>
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<td>Year 1</td>
<td>Year 2</td>
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<td>Darrell Phillips</td>
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<td>C. W. Mitchell</td>
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<td>1956</td>
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<td>W.P. Watkins</td>
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<td>1957</td>
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<td>E.C. Austin &amp; George Brandal</td>
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<td>3007 Arctic Blvd., Spenard</td>
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<td>E.M. Rowan Jr. &amp; Richard Gransov</td>
<td>4</td>
<td>1959</td>
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<td>Eq &amp; Eq Co. 3136, APO 39, New York</td>
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<td>Betty &amp; Hugh Snider</td>
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<td>1959</td>
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<td>3508 Willow, Anchorage</td>
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<td>Forrest A. Green</td>
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<td>1959</td>
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<td>Box 6163 Annex, Anchorage</td>
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<td>A.J. Spernak et al</td>
<td>4</td>
<td>1960</td>
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<td>2606 Porter St., Anchorage</td>
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<td>Albert J. Goguen</td>
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<td>Joe &amp; Wilma Encinas</td>
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<td>Nugget Mining Co. c/o Clyde Smith, Moose Pass</td>
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<td>Kenneth Grotjohn &amp; William Jewell</td>
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<td>Portage Junction</td>
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<td>Paul Padie Jr.</td>
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<td>Box 5648, Mt. View</td>
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<td>D.E. Robinson</td>
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<td>Lillian McCall</td>
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<td>Homer Hayes</td>
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<td>Lewis Snodgrass &amp; John Panicci</td>
<td>1962</td>
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<td>1313 Wintergreen, Anchorage</td>
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<td>E.E. Brenner &amp; Whitney</td>
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<td>William Nordeen</td>
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<td>1962</td>
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<td>Carl Clark &amp; Twait</td>
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<td>David Wagner</td>
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<td>Star Route A, Box 464, Spenard</td>
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<td>James Aldrich &amp; Loren Hastings</td>
<td>1963</td>
<td>none</td>
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<td>3500 Greenland Drive, Spenard</td>
<td></td>
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<td>Albert Bowen</td>
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<td>1963</td>
<td>Mt. View</td>
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<td>Charles Zawacki &amp; Richard Bogoe</td>
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<td>Tore Jonsson</td>
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<td>Mountain Mining Co.</td>
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MEMORANDUM

TO: Marvin A. Kuentzel
   Water Resources Branch
   Division of Lands

FROM: Dorothy Mihelich
      Mineral Analyst
      Division of Mines and Minerals

DATE: February 14, 1967

SUBJECT: Valid Mining Claims in the Seldovia, Homer, Seward & Kenai Recording Districts

State of Alaska

Following are the names and addresses, if available, of holders of mining claims within the Seldovia, Homer, Seward and Kenai Recording Districts, Alaska:

Seldovia Recording District

Union Carbide Corporation, 270 Park Avenue, New York
Wallace McGregor, Box 6033, Salt Lake City, Utah
Mrs. Lenore Nash, Upper Marlboro, Maryland
Kenai Chrome Co., 545 East 4th Ave., Anchorage

Homer Recording District

Nothing

Kenai Recording District

Harry Pike, 1011 W. 36th, Spenard
Jonathon Lawton, Box 579, Kenai
Betty J. Fuller & Luella M. Strother, Cooper Landing
James Dumaire & James O'Brien, Cooper Landing

Seward Recording District

Alvin W. Mackay, Box 155, Seward
Gateway Development Co., c/o Ray Billens, Box 66, Seward
Harold Sheffield et al, 400 South Bliss, Anchorage
Donald Glass, Box 155, Anchorage
Ted Fitzgerald, 2418 East 40th, Anchorage
Glen Williams, 958 Northern Lights Blvd., Anchorage
Elwood Nielsen, Box 1213, Seward
Robert Newcomb, 3231 Drew Street, Los Angeles, California
Richard Currington, Box 97, Cold Bay
Ed Farrell, 511 7th, Fairbanks
Forrest D. Charlton, 1526 Nelchina, Anchorage
Norman Yaeger, 3313 Spenard Road, Anchorage
Patrick Bogan, 809 N. Bragaw, Anchorage. Lessee from John Dryer, Box 3515, Anchorage
Donald J. Ryder, 3215 Thompson Ave., Anchorage
R. B. Willburn, Portage, Alaska
Dorothy Kruger, Executrix Fred Henton Estate, c/o Robert Lampa, 109 15th, Anchorage
Grant Lake Development Co., Inc., Box 5-797, Mt. View
George Lindsey, Moose Pass
N. O. Burkhalter, Star Route A, Box 1501, Spenard
E. L. Senft, Box 701, Seward
Maynard Willburn, Box 1264, Seward
MEMORANDUM

Seward Recording District (cont.)

Jack E. Carli, Jr., Box 1024, Seward
C. W. Mitchell, Box 458, Homer
Homer G. Boe, Box 394, Seward & Derick L. Williams, Box 395, Seward
John M. Coleman, 2607 W. 30th, Spenard
H. S. Horton, Box 1442, Seward
Galen Albertson, Box 835, Seward
Walter S. Sellens, Box 30, Willow, Alaska
Edgar Haum, 203 Jonathan Ave., San Jose, California
Chester B. Smith, 4800 Lake Otis Parkway, Anchorage
Herman Keno, Hope
Iver Nearhouse, Hope
Carl M. Clark, Hope
Ted K. Boyd, Box 1011, Seward
Harold Culver, Medfra
Fred B. Snyder, Box 392, Anchorage
Cecil Rhode, Moose Pass and Leo Rhode, Box 406, Homer
Edgar Curtis, 1415 Marten (Shady Lane), Anchorage
Bob Slaughter, Box 4994, Spenard and Jim and Robert Moore, Box 1184, Star Route A, Spenard
A. W. Smith, Box 3252 Eastchester Branch, Anchorage
Lewis R. Shell, Box 4-109, Spenard
John L. Rader, Gordon Hartlieb, Box 2068, Anchorage
W. P. Watkins, Box 1005 Star Route, Seward
James Durnire, Cooper Landing and H. W. Davis Box 1364, Seward
George Todd, Box 4-063, Spenard
Keith Copeland, S16 E. Fireweed, Anchorage
Milo E. Flothe, 7222 Hadley Way, Anchorage
Jim Wolcott, 1008 A Street, Anchorage
Forrest Green, Box 6163 Annex, Anchorage
A. J. Spennak, 2606 Porter St., Anchorage and Peter & Roy Butcher, Box 228, Anchorage
George Covington, Box 335, Anchorage
Joe Adams, 1114 E. 10th, Anchorage
Joe Encinas, Box 4038, Spenard
Russell B. Hall, Box 5259, Anchorage
Bill Johnson, Mile 54 Seward Hwy, Moose Pass and Fred Henton, Moose Pass
Dallas A. Newell, 1503 32nd Place, Anchorage
Donald E. Dippel, Box 1035 Star Route A, Spenard
Chester Brattlund, 5504 Woodland Drive, Spenard
T. W. Jackson, 4225 Spenard Road, Anchorage
Alex Pinkham, Annex B, Box 6062, Anchorage
William H. Nordeen, Moose Pass
Doris Branson, Box 127, Soldotna and Paul Nestor, Soldotna
William E. Peters, 1193 4th Avenue, Anchorage
David Wagner, Star Route A, Box 64, Spenard
MEMORANDUM

State of Alaska

TO: Marvin A. Kuentzel

FROM: Dorothy Mihelich

DATE: February 14, 1967

SUBJECT: Page 3

Seward Recording District (cont.)

Charles Zawacki, 4880 Newcastle Way, Anchorage
Tore Jonsson, Box 1772, Anchorage
Mountain Mining Co., c/o A. L. Renshaw Jr., 1911 Alder Drive, Anchorage
or 1850 Wickersham Drive, Anchorage
Joseph M. Hamilton (with James Dunmire)
Fred Henton, Moose Pass, and Ray Mavity and Bill Miller (no address)
Larry R. Taylor, 1119 Chugach Drive, Spenard, and Kelly A. Painter, #6, 7800 DeBarr Road, Anchorage
Connie Morris, Box 4-1806, Spenard
Ransome E. Williams, Box 865, Coalinga, California
M. J. Hilliard, 23 Greenwood Avenue, Bend, Oregon
Wesley Laubscher, Box 922, Seward
Joel Kottke, 900 East 45 Avenue, Anchorage, with Ralph Hilleary and Claude Parks, address unknown
William L. Rabich, Box 21, Anchor Point
MEMORANDUM

State of Alaska

To: Jim Williams
Mines and Minerals

THRU: Roscoe E. Bell
Director

Printing: Marvin A. Kuentzel
Water Resources Branch

DATE: February 2, 1967

SUBJECT: Mining Claim locations in the Seldovia, Homer, Seward and Kenai Recording Districts, Alaska

Can you supply the names and addresses of holders of mining claims within the Seldovia, Homer, Seward and Kenai Recording Districts? We would like to begin advertising for water rights' determination in this area by March 16, 1967.

If it would be possible to receive this information a week or two before the 16th it would be appreciated.

Please advise.

MAK:mjw
October 20, 1964

Mr. John F. Brinckman
British and Foreign Securities
5th Floor Box 363
Montreal 6, Ontario
Canada

Dear Mr. Brinckman:

Maps of claims are not required under Federal law on Federal land. The claims staked by Pan American Petroleum were on Federal land so the Federal law applies.

Pan American's claims are grouped on Chenik Mountain and on several other outcrops between there and Illiamna Lake. I believe they now have about 500 claims staked.

Several individuals have claims staked near Pan American's claims but there is still a great deal of land open in the immediate vicinity.

Very truly yours,

William H. Race, Mining Engineer
Division of Mines and Minerals

WHR:dn
13 October, 1964

Division of Mines & Minerals,
Box 1391,
Juneau, Alaska.

Dear Sirs,

I am interested in acquiring mineral rights for development on behalf of clients. I am particularly interested in areas contiguous to the recent discovery of Standard Oil (Indiana) of iron ore in the Gulf of Alaska.

Would you be good enough to advise me if there are maps available indicating areas not taken up, and where rights have been taken up, to whom these belong.

Yours sincerely,

John F. Brinckman
July 1, 1964

Mr. G. A. Noel
Utah Construction & Mining Co.
510 West Hastings Street
Vancouver 2, B. C.

Dear Gerry:

Pan American Staking

Sorry to say we have no authentic dope on this. Perhaps we will have something on it by next month that we can put in our August Bulletin. We are as much in the dark at present as the general public.

When do we see you over this way again?

Sincerely,

James A. Williams, Director
Division of Mines and Minerals

JAH:dm
June 24, 1964

Mr. J.A. Williams, Director,
Division of Mines & Minerals,
Dept. of Natural Resources,
JUNEAU, ALASKA.

Dear Jim:

Our San Francisco office mentioned a recent mineral find by Pan American Oil in the Lake Iliamna district. We would appreciate any information you are able to give us on this discovery.

Bob Seraphim tells me that Moneta moved pretty fast on that copper discovery in the 'Denali area. It is encouraging to see some concrete results from your field projects. We hope this year may be as rewarding.

Yours sincerely,

G.A. NOEL

GAN/do
TELETYPEx

TO: JAMES A. WILLIAMS AND CHARLES HERBERT

CONFIDENTIAL. CONFIRMED PAN AMERICAN STAKING PARTY CONSISTING OF APPROXIMATELY FORTY MEN LOCATING CLAIMS ON SOUTHERN SHORE OF LAKE ILLIAMNA IN VICINITY OF CHEKOK ISLAND. ESTIMATE OF AT LEAST ONE THOUSAND ACRES LOCATED. LOCATION NOTICES WILL PROBABLY BE FILED THIS WEEK. THIS APPARENTLY IS THE RUMOR THAT STARTED LAST WEEK CONCERNING TUXEDO. REQUEST INFO BE CONFIDENTIAL UNTIL MADE PUBLIC.

NORRIS C BAKKE

Received via phone
6/17/64
9:15 a.m.
mez
TELETYPEx
TO: JAMES A. WILLIAMS
CHARLES HERBERT

OFFICIAL RELEASE BY ROSS CRAIG INDICATES PAN AMERICAN AND OTHER GROUPS
HAVE FIFTY-TWO LOCATIONS IN KEMASHAK BAY. T11S 29 N SM IN VICINITY
OF CHENIK MT. RODERICK AND GANAPOLE GROUP ALSO INVOLVED.

NORRIS BAKKE

Received via phone
9:15 a.m.
mez

2 - 19
Roscoe E. Sell
Director

June 16, 1964

Morris C. Bakke, Jr.
Minerals Officer

Iron - Unconfirmed Location Reports
and Confirmed

The press release of last week as it concerned claim staking by Pan American in the Tuxedni Bay area for magnetite was not correct. However, in the past years, Pan American apparently had an option which might possibly still be in effect on the claims covering the deposit. After reading the USGS report concerning this property, and discussing it with Kirk Stanley, who conducted a ground magnetometer survey on behalf of a third party, it appears that this type of contact deposit is of its nature, very limited in reserves. It was originally located in 1916, which locations were allowed to lapse, and then relocated in 1960 and 1962. Presently there appears to be a conflict of ownership, and Joe Rudd represents the later claimant, who possibly gave the option to Pan American. In general, Kirk agrees with the observation that due to lack of information and study in the general area, that the chances of additional mineralization are not precluded, therefore, making it still worthy of consideration for state selection.

This area of confirmed staking activity by Pan American has been isolated to the south shore of Lake Iliamna between Cheok Island on the west and Kokhanok on the east. Tom Atkinson flew to this area yesterday and personally witnessed staking parties totaling about 40 men settling locations which could well exceed 1,000 acres which would be approximately 50 claims. After further discussing this with Kirk, he agrees that this probably concerns a magnetite deposit with initial discovery by air-borne magnetometer work and later confirmed by ground work. It is probable that the location notices will be filed this week. This information is to be kept confidential until publicly released.

NCB/f1

cc: James Williams
    Charles Herbert
    Gordon Herreid
    Martin Jasper

Original Signed By
Morris C. Bakke, Jr.
Minerals Officer
MEMORANDUM

TO: James A. Williams

FROM: Arthur Rose

DATE: May 21, 1964

SUBJECT: Return of Reports

We are returning, under separate cover, by certified mail the following reports:


Art

AWR: bb
MEMORANDUM

State of Alaska

TO: Arthur Ross

FROM: James L. Williams

DATE: May 19, 1964

SUBJECT: Requested Reports

As you requested, we are sending you the following reports by Certified Mail. When you have finished with them, please return by Certified Mail. In any case, please return them before you go into the field so that we may have them available here in this office for other people.


MR-62-2 Bennett-Michel-Copper Prospect by C. F. Herbert - CONFIDENTIAL (with map) (1962)


PE-63-3 Report on the Emmick's Prospect (Rainbow Mountain) by R. H. Saunders (with map) (1957)

PE-63-7 Report on the Emmick's Nickel Prospect, M. Hayes Quadrangle by Robert H. Saunders with Fig. 31-2 and Plates Nos. 1-2-3. (1961)


PE-68-9 Report on the Examination of the Tripp Copper Prospect, Mt. Hayes Quadrangle, by R. H. Saunders (1962)

The Japanese report, MI-295-36 is too general to be of interest, I believe. Anyhow, Martin should have this report by the Japanese geologists, and all the Plates Nos. 1 through 21, as I sent one of the three copies received to him.

JAS:in

enclosures
MEMORANDUM

TO: Art Rose

DATE: May 21, 1964

FROM: Dorothy Mishelich

SUBJECT: Data on Claims in Mt. Hayes Quad and Valdez Area

I am enclosing copies of Kardex cards for the above areas, and copies of any reports mentioned on these cards by the engineers. Also, in the Valdez area there were some Kardex cards that had so little information on them, I didn’t bother copying them. The following is the information on these cards.


Kx 86-15. 2 miles SW Dayville Dock, S. side Valdez Bay (61°05'N, 146°25'W) for Au. 2 lode claims, no references. Claims were located in 1954 by A.S. Day, Sr. et al. No assessment work performed.


Kx 86-145. Platinum Creek, 8 miles from Valdez on left hand side of Richardson Highway (61°05'N, 146°03'W) Pt placer. 1956 location by Harold A. North - Black Bear Noa. 1-2-3-4, no assessment work. No reports.
MEMORANDUM

State of Alaska

TO: Dorothy Mihelich

FROM: Arthur Rose

DATE: May 19, 1964

SUBJECT: Data on Claims in Mt. Hayes Quad and Valdez Area

Thank you for the information on claims staked by Mr. Ghezzi. I am very interested in anything you can tell me about the claims on Rainy Creek, West Fork of Rainy Creek, and East Fork of Maclaren River. Metals of interest, more exact location, and Division reports on the claims would be especially useful. Any other claims in the area would also be of interest, even if no assessment work was done, because they indicate some sort of mineralization is probably present.

While we are at it, can you send me similar data on claims for the Valdez area. I enclose a sketch showing the area I am interested in.

Thank you very much for your efforts on this. Perhaps you can reproduce the cards on a copying machine.

Arthur W. Rose

AR: bb

REO'D. JUNEAU
MAY 20 1964
Div. Mines & Minerals
May 10, 1963

Mr. William T. Knox
Apt. #15 - 1770 Davis Street
Vancouver, B. C.

Dear Mr. Knox:

We have checked our records and find that apparently there aren't any claims being held in the Tok area.

In the Slana area there are claims currently held at Mntasta Pass, on Grubstake Creek, Indian Creek, Silver Creek, the Dome Area and about one mile north of the Slama-Tok Cutoff at Mile 59.

The Location Notices usually just give the general location and it is therefore almost impossible to sketch the locations for you.

If we can be of further help, please write us.

Very truly yours,

(Mrs.) Dorothy C. Mihelich
Mineral Analyst
May 7, 1963

WILLIAM T. KNOX

Apt. #15 - 1770 Davis Street,
Vancouver, B.C.

Mining Recorder,
Dept. of Mines,
Juneau, Alaska.

Gentlemen:
Would you kindly advise me whether or not there are any claims staked in the area of Sland and Tok and if so would it be possible to have a sketch showing these locations. We are also asking the recorder at Copper Center. Hoping for the favor of an early reply, we are -

Yours Sincerely,

William T. Knox

REC'D. JUNEAU
MAY 9 1963
Div. Mines & Minerals
Dear Senator Bennett:

Jimenez, Arizona

Senator, Representative:

The Honorable Senator Bennett.

March 6, 1969
September 5, 1962

Mr. Warren S. Moore  
W. S. Moore Company 
400 Torrey Building  
Duluth 2, Minnesota

Dear Warren:

In re Limestone and Coal in the Anchorage Area

I believe you have U. S. Steel confused with Permanente in yours of August 21. Permanente located some limestone in the Katmai Valley area two years ago. To the best of my knowledge, U. S. Steel has not located any limestone in the Anchorage area but has located quite a bit of it in Southeastern Alaska. Other than the Permanente deposit, a new discovery, I am not aware of other limestone in the area or on the Kenai or Alaska Peninsulas.

I am forwarding your letter to Martin Jasper for further answer as he would know of any possibilities that I may have missed. For your interest and files, enclosed is a copy of Martin's report on the Permanente limestone.

I will let Martin answer your coal question also. He can contact a local company and get direct information for you. He will, of course, keep the matter confidential.

Sincerely,

James A. Williams, Director  
Division of Mines and Minerals

Je  
Enclosure  
cc - Martin W. Jasper
August 24, 1962

Mr. Warren S. Moore
W. S. Moore Company
Torrey Building
Duluth 2, Minnesota

Dear Mr. Moore:

This will acknowledge your letter of August 21 to Jim. He will be out of town until the latter part of next week, however, you will be hearing from him shortly after his return to Juneau.

Very truly yours,

(Mrs.) Jean L. Crosby
Administrative Assistant
MEMORANDUM

TO: Martin Jasper

FROM: Bob Saunders

DATE: June 11, 1962

SUBJECT: Rumored Placer Venture of D and D Company

To the best of my recollection, it has been over a year since I last saw Dan Coben. So far as I know he is still working as Assistant Fire Chief at Eielson Air Force Base. Apparently his group is able to raise enough money to do some prospecting, and they may have substantial financial backing, but I don't know for sure. The ground they are interested in is on Eagle Creek, which I assume is the Eagle Creek that drains into the East Fork of Chistochina River and is within the area described by you in your memo of June 6.

It seems to me that Coben told me once that Transworld Resources was interested in their project, but I did not make a note of that although I did make a few notes of some of the things he said including the plan to put a bucket-wheel excavator on the property.

As far as I know, Coben has not had mining experience, and I do not know who would be in charge of any project they might undertake.

cc: JAW

Bob

JUNEAU

JUN 11 66

DIV. Mines & Minerals

Dan Coben
(Chistochina River Placee)
In May '62 Don Steing on his trip here for a bowling tournament, advised me that Mr. Cobin was planning a placer venture in the Mankomen Lake area. His project was reported to include purchase of a large "dryland" European "wheel" type dredging machine. During my field work in the Copper River drainage system last year numerous inquiries failed to turn up any information concerning this reputed venture.

The only possible (?) spot in that region that such a "dreamy" project is likely to be located is in the area of a low, hardly perceptible divide easterly from Mankomen Lake to the Slana River (a distance of about 7 miles), which actually is mostly in the Gulkana Quad and covering headwater drainage of East Fork of the Chestochina River. About 3 years ago the Duffy's (father & son, owner of Duffy's Place at Mt. 641 on Slana-Tok highway) staked a large number of placer claims in that area and reputedly (?) did assessment work upon them for two seasons.

Last week John Larson, Hiway Dept. engineer in charge of mining access roads, phoned me re the Mentasta-Slate Creek road which is scheduled to be built this season. In course of discussion he asked if I knew of Cobin's proposed project in the above mentioned area, and whether the road would benefit his operation; on that score there is no problem, as it is good going with little or no grading to be done over morainal material. Larson's mention of Cobin, the first coming my way since Stein's mention of it last year, suggests there may be some attempt made by Cobin to do something in the area, altho my information to date is that no worthwhile testing has been done on any property in that (to my mind) area of questionable economic placer interest.

So - have you heard anything concerning the D & D Co.s plans? Are they a substantial group?

Regards-

cc: JAW

REC'D JUENV 26-7

M. Minel & Minerals

JUN 7 1962

Dan Cobin (Chistochina River placer)
June 22, 1962

Mr. John W. Day
Barker and Day
Dexter Horton Building
Seattle 4, Washington

Dear Sir:

Please find below all our information on the Galena Bay and Nikolai claims.

1. Galena Bay - Millen Group

   1915 Galena Bay Mining Company, Mineral Survey No. 904, 905, 906, 908
   1957 Redeemed (from being delinquent on Real Property Law
   #3-127, 128, 129) by Galena Bay Mining Corp., Patent
   Nos. 806021, 552285, 549933

   These claims are located 2 1/2 miles south of the confluence
   of Copper Creek and Kotainia River. Described in U. S. Geological
   111-112; 745, pp. 101-102; 947-D, pp. 126-129.

2. Galena Bay - Copper Mountain Group

   1909 Galena Bay Mining Company, Mineral Survey No. 1017, Patent
   Nos. 552985 (your records indicate a patent number of
   53643)

   These claims are located on the north slope of Copper Mountain,
   near the head of Vesuvian Valley. Described in U. S. Geological
   Survey Bulletins Nos. 294, p. 83; 345-C, p. 178; 379-C, p. 93;
   442-D, p. 164; 443, p. 59; 542-B, pp. 112-114; 605, pp. 98-102;
   622-E, p. 133; 642-9, p. 140; 963-B, pp. 53-54; U. S. Bureau of
3. Nikolai (formerly Chittyna Exploration Company)

1904 Chittyna Exploration Company Mineral Survey 546
(not 547 as you have it) Patent No. 39132

These claims are located on Nikolai Creek 3-1/2 miles from
its junction with McCarthy Creek. Described in U. S. Geological
Survey Publications SP "Copper River" 1901, pp. 82, 86-87; AR 21,
p. 437; 15, pp. 16-18, 28-29; P 41, pp. 92, 104-105; Bulletins
213, p. 144; 345-C, pp. 165-165; 374, pp. 88-89; 448, pp. 75,
93-95; 480-C, pp. 84-85; 520-C, pp. 106; 542-G, p. 84; 714-A,
p. 28; 947-F, pp. 98, 106-108

Our records verify ownership as shown in your Exhibit A and B
with the exception of the patent number of the Copper Mountain
Group, and the Mineral Survey number of the Nikolai Group.

Very truly yours,

William H. Race, Mining Engineer
Division of Mines and Minerals

WEB: Jr
Supervising Mining Engineer,
Alaska District,
Juneau, Alaska.

Dear Sir:

We are attorneys for Hugh H. Benton, Jr., who is receiver of the Galena Bay Mining Company, which holds certain mining claims in Alaska. In addition, this company is the owner of the majority stock in the Nikolai Mining Company (formerly Chittyna Exploration Company) which also holds some mining claims.

We will shortly be required to report to the court the status of the receivership. We would like very much to get as much factual information as we can on the status of these claims with particular reference to whether or not any taxes or other charges should be paid to preserve them for the receivership, and if so, what payments should be made.

We have previously prepared and filed on behalf of the receiver a "Statement of Real Property Ownership" as required by the Alaska law for registration of mining claims.

The law firm of Burr & Boney in Anchorage are our statutory representatives in Alaska, and we shall seek a legal opinion from them when we have the factual situation in hand. We attach hereto a list of the claims in question, and we shall be grateful if you will advise us as to what information appears in your office with reference to any of them.

Yours very sincerely,

BARKER & DAY

By

JWD:p
Enc.

JUN 21 '62
Div. Mines & Minerals

Galena Bay Min. Co.
**EXHIBIT "A"**

List of Mining Claims in the name of Hugh H. Benton as Receiver for Galena Bay Mining Company after re-conveyance by Galena Bay Mining Corporation of Ill.

**I. Galena Bay-Mallien Group**

<table>
<thead>
<tr>
<th>Mineral Survey Number</th>
<th>Patent Number</th>
<th>Claim Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>904</td>
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<td>Mallien</td>
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<td>908</td>
<td>949933</td>
<td>Minneapolis</td>
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<td></td>
<td></td>
<td>Franklin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Franklin #1</td>
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</table>

**II. Galena Bay-Copper Mountain Group**

<table>
<thead>
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<th>Mineral Survey Number</th>
<th>Patent Number</th>
<th>Claim Name</th>
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</thead>
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<tr>
<td>1017</td>
<td>35643</td>
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<td>American Girl</td>
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<td>Tallowing</td>
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<td></td>
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<td></td>
<td>557986</td>
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</tbody>
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**EXHIBIT "B"**

List of Claims in the name of the Nikolai Mining Company as of the date of appointment of Receiver.

**I. Nikolai (formerly Chittym Exploration Company)**

<table>
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<tr>
<th>Mineral Survey Number</th>
<th>Patent Number</th>
<th>Claim Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>947</td>
<td>39112</td>
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<tr>
<td></td>
<td>39153</td>
<td>Siwash Jack</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red Rover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Side Partner</td>
</tr>
</tbody>
</table>
November 10, 1961

Mr. James E. Fisher
Oberts Building
P. O. Box 397
Kenai, Alaska

Dear Mr. Fisher:

Re: Kenai Coal

Somehow I neglected to mention coal in my letter to you of yesterday. No statement of the minerals of Kenai Peninsula is complete without some mention of the widespread coal deposits of the western part of the Peninsula. Of what use it can be made is another question. Very little has been mined, and for domestic heating purposes, even less will be mined in the future. This is because of the close proximity of natural gas, of course. On the other hand, we should never lose sight of the chance that an opportunity may present itself to develop a petrochemical industry on the Peninsula using the gas and coal together. Another possibility, though remote, is that of using the coal and gas together in the treatment or refining of oil or copper ores.

In the Homer area, at least 30 coal beds ranging from 3 - 7 feet in thickness have been measured. Indicated reserves within a half mile of the shores of Cook Inlet and Kachemak Bay have been estimated at not less than 400,000,000 tons. Though the beds are relatively thin, and mostly subbituminous, one attractive feature is that the beds are relatively flat lying which adds to the ease of mining.

Very truly yours,

James A. Williams, Director
Division of Mines & Minerals

JAW:je
Mr. James E. Fisher
Oberts Building
P. O. Box 397
Kenai, Alaska

Dear Mr. Fisher:

Re: Mineral Deposits and Production on Western Kenai Peninsula

This is in answer to your letter of October 23. Because of their sedimentary nature, western Kenai Peninsula lowlands are devoid of hard rock minerals. Chromite exists and has been produced at Red Mountain and Claim Point, if these are within the area intended. I am not too sure just what area to refer to when you say western Kenai Peninsula. For example, gold has been produced in the past at Nuka Bay and is presently being produced at Resurrection Creek whenever the State Department of Fish and Game will allow it. These two localities are probably not within your limits of western Kenai Peninsula.

Concerning the chrome production, statistics are as follows: In the period 1917-1923, 1489 tons of ore of about 45 percent chromic oxide worth $30,000 were mined. In 1942-1943, 5550 long tons of chromite were mined from the Chrome Queen Mine, but were left on the beach for many years. This was under a government purchase program, and the Government never sent transportation for the ore. It has been reported that this ore was finally shipped to Japan, but this report has not been confirmed to me. Reportedly this particular tonnage was worth $199,820. In the period of 1943-1944, 7414 tons worth $150,707 were mined and shipped. In 1954, 2953 tons worth $248,207 were mined and shipped. In the period of 1955 to 1957 inclusive, 16,799 tons were shipped at a total value of $1,768,194. All the above production was of a shipping grade ore that could be economically transported without having to be concentrated.
Judging from various estimates of chrome reserves, there are probably about 60,000 tons of shipping grade ore and 170,000 tons of low-grade ore which will require concentration at Red Mountain and Claim Point. It should be noted that these reserves are in relatively narrow and separate bodies, rather than in one or two large bodies, and therefore are more expensive to mine. The reason that chrome mining was discontinued in 1957 was the discontinuance of a government purchase program which had sustained a high price of $90 or more per ton. At the present world market price of $30-$40 per ton, the chrome deposits of the Kenai Peninsula are generally considered uneconomic.

This Division has been investigating clay possibilities for aluminum production, brick making, and other possible uses as time and our limited facilities permit. To date, we have been unable to find anything encouraging.

You are probably as familiar with the oil and gas situation as I am. So far, there have been one commercial oil field and three commercial gas fields discovered. More will undoubtedly be found. Gas production to date has been negligible, but of course will increase as the consumers in Anchorage begin to utilize the gas from the newly completed line connecting them with the Kenai. As you know, Union Oil is actively investigating possibilities of liquefying natural gas for shipment to Japan.

Production from the Swanson River oil field for the month of September was 654,979 barrels, an average of approximately 21,800 barrels per day. Cumulative production to October 1, 1961, has been 4,808,730 barrels from the Swanson River Field.

Enclosed are two copies of our annual report. Perhaps you may be able to gain some useful information for your purposes from these.

In answer to your question on the Arthur D. Little reports, the portions of that report relating to minerals have been made available to this office. There are extra copies available of some of the sections of the report. If you wish any of these parts, please advise and I will endeavor to obtain them for you.

Very truly yours,

James A. Williams, Director
Division of Mines & Minerals

Enclosures - 2

JAW:je
Director James A. Williams  
Division of Mines & Minerals  
Box 1391  
Juneau, Alaska  

Dear Director Williams:  

On 21 October 1961, the communities on the Kenai Peninsula formed the Western Kenai Peninsula Redevelopment Committee, to prepare an Overall Economic Development Program so that the communities on the peninsula may qualify for assistance available under the Area Redevelopment Act. In this connection, certain information will be required for inclusion in such a program. Could you advise as to the minerals known to exist on the Kenai Peninsula including such of those minerals as may have been produced in the past or are presently being produced, i.e. Khromite, oil and gas. If possible, I would like the production figures through 1 July 1961.  

It would also be helpful to know of any interest that might have been displayed since such information might provide a basis for technical assistance under the Area Redevelopment Act. If your information is already in pamphlet form, I would appreciate two copies if possible.

Yours truly,  

JAMES E. FISHER

cc: Mrs. Elizabeth A. Aprill  
Anchor Point, Alaska  

P. S. I would like to know if any of the Arthur D. Little reports, or portions of reports have been made available to your office thus far?
November 8, 1961

Mr. William F. Hall
Division of Highways
Valdez, Alaska

Dear Mr. Hall:

Re: Status of all Mineral
Claims in Valdez District

Your undated letter on the subject addressed to our office
at Anchorage has been forwarded here for reply. We have
the information, of course, in our central recording and
Kardex files. However, our staff is very limited and the
project of determining status of all mineral claims within
a 15-mile radius of Valdez will take some research. If
you will arrange for someone from the Division of Highways
to come to our Juneau office, we will make the records
available to him so that he may determine the status of
these claims for you.

Very truly yours,

James A. Williams, Director
Division of Mines & Minerals

JAW:je

cc: NWSKona
MEMORANDUM

TO: James A. Williams
FROM: Martin W. Jasper

DATE: October 30, 1961
SUBJECT: Status of All Mineral Claims
       Valdez District

Enclosed is the original of the above inquiry from William F. Hall, Department of Public Works, Valdez, and my reply to same.

It seems to me that with their large number of employees who are not too busy during the winter months that they would have ample man power available to spend the required time in digging out this information in Valdez Magistrate's office. Don't you agree?

Regards.

MWJ: bb
TO: State Dept. of Mines  
329 2nd  
Anchorage, Alaska

FROM: William F. Hall  
Div. of Highways  
Valdez, Alaska

Sir:

We are surveying in the Valdez area and are interested in the status of all the mineral claims within a 15 mile radius of Valdez.

Can you send the information on the above?

Yours truly,

William F. Hall

cc/dh
I dropped in the office yesterday noon for half an hour or so and found Don Stein in for a visit. Don asked me if I had heard of a new placer venture to be undertaken in the Chistochina River drainage system (exact location not known). According to Don a Fairbanks contractor by the name of Dan Cobin plans, and presumably has made arrangements for acquiring a Bucket Wheel Excavator developed by the German Krupp Interests, and being used in a number of points around the world on alluvial and strip mining projects. To me this borders on the fantastic because this equipment costs several million dollars "with output up to 470 cubic yards per hour of loose material and can work continuously" (quoted from 1st paragraph on page 104 E&J October 1960 Issue.) I had heard a rumour some time ago concerning a new placer venture in the Copper River Valley but had not previously heard of anyone reputedly directly responsible and interested in that venture.

It is a certainty that no test work has been carried on in that region as a whole on a scale and with results that would justify any company or profit interests taking a project of this nature. I don't believe that this is anything to be published until such time as I can confirm it from more reliable quarters.
To Martin W. Jasper

From James A. Williams

April 20, 1961

McArthur River Flats, Black Sands
Tyonek and Kenai Quads

Use your own judgment on this second proposed examination. If you think differently than I do, go ahead and do the job. To me it looks like a bit of a wild goose chase. I seriously question Kidder's report that a mining company is interested in an area of 5 to 6 percent iron. I know that the Japanese are interested, but I also know that they are interested mostly in deposits that have been developed and are ready to mine.

Thanks for the advertisement concerning the mining claims by the Bureau of Land Management. The purpose of these ads is to clear up mining claim records or conflicts on land that the State has selected for acquisition. If active mining claims exist in an area that the State has selected, the State loses that portion of the land. These ads are an effort to prove that active claims do not exist. I have seen quite a few of them, but mostly they have advertised real old claims. I have never seen claims as late as 1955 stakings advertised before. They could run into trouble on this, I believe.

Okay on your annual leave for the purpose of moving from the old homestead. I am glad you finally sold it. Please fill out and send to us a leave slip to cover this at your earliest opportunity.

I also bit on the advertised American Law of Mining first edition and immediately inquired as to the price. It turns out to be only $150 per set. I also would like to have this set of books but can hardly see paying that much money.
To: Jas. A. Williams
From: Martin Jasper
Subject: McARTHUR RIVER FLATS BLACK SANDS —
TYONEK & KENAI QUADS

Chuck Kidder was in first of week, primarily to "plead" for another
"look see" of the area. His position is that the area he got the higher
Fe analyses from was beginning downstream about ½ mile below where I
took the samples across a 1200 foot section at 200 foot intervals.

on surface
Black sands were more evident downstream from my sampling as viewed from
the air, so it mite be advisable to sample across two sections ½ to 1
mile apart in the lower area.

If OK with you will plan on doing so sometime next month, as Kidder
reports the Japs are still interested, and that an American company
has also stated they would be if a large area of 5 to 6% Fe indicated.

RECD JUNEAU

J. 2. 1961

Div. Mines & Minerals
MUD VOLCANOES IN THE COPPER RIVER BASIN, ALASKA
(Donald R. Nichols, Lynn A. Yehle)

Two groups of mud volcanoes, consisting largely of clayey silt cones which discharge gas and highly mineralized spring water, occur within 15 miles of Glennallen. The four cones of the Tolsona group range in height from 20 to 60 feet, and lie west of the Copper River near coal-bearing rocks of Tertiary age; three cones are active, discharging methane and nitrogen gas and sodium and calcium chloride water. The three cones in the Drum group are 150 to 300 feet high, lie east of the Copper River near the slopes of the volcanic Wrangell Mountains, and emit carbon dioxide gas and warm sodium chloride and bicarbonate waters.

The gas source of Tolsona springs may be from buried marsh or coal deposits because the springs contain only a trace of carbon dioxide and lack hydrocarbons heavier than methane. Gas from Drum springs probably emanates from volcanic sources. Water in Tolsona springs may be a mixture of meteoric, connate, or highly saline ground water; the Drum springs may also include small amounts of volcanic water.

Formation of the cones was by quiet intermittent accretion, and in the Drum cones, probably included eruptive phases. Most cones formed largely before or during the last major glaciation.

Presented at Arctic Geology Symposium, Calgary, Alberta,
December 1959.

7-10
Mr. George White  
General Delivery  
Palmer, Alaska  

Dear Mr. White:  

Our records do not show the presence of barium nor barite deposits occurring in the Palmer, Talkeetna, Eureka, or Chistochena areas.

Mr. Martin Jasper, Mining Engineer in charge of the State of Alaska's Division of Mines and Minerals; Anchorage office, 329 Second Avenue, may know of such a deposit or may know someone who has found barite in that area. The Mining Engineer and the Assayer in the Anchorage office will be happy to answer any questions you may have pertaining to rocks, minerals, and mining.

Very truly yours,  

Willow M. Burand  
Assayer-Engineer  

WMB:eg
Juneau, 1, 12. 50

Dear Sir,

I would like some information on Barium or Barite Deposits in the 3rd district which includes this area. I presume and about known Deposits in the Palmer, talfoitan, and Eilekta Areas. The Christchicken Area, yours truly,

George White
Palmer, Alaska.
I received your note on my return to the office from a field trip last Friday, and regretted having missed you.

With regard to the several properties you listed, I have only the following information on them:

1. Crown Point Mine, Seward - only assessment work has been done upon this property for a number of years. Anson Gouldsberry died last January and in May or June of this year a man by the name of Neilson bought the property from his estate for $900.00. Mr. Neilson and two grown sons stopped by the house one evening last June or July and wanted to know all about this "pig in a poke" which they had bought. I gave him a thumb nail sketch of the deal and he then took off to return to California, dispose of his interests down there and return next Spring to carve the proverbial "fat hog".

2. McLaren River Copper Corporation - the only work that has been done the past several years upon the property has been limited to the annual assessment requirement. You may have learned that Fred Pettijohn was replaced as president of the outfit last year by Mr. Bukow, who owns the Anchorage CO2 Company, the Anchorage Acetylene Company and other affiliated welding and shop supplies companies. On August 22nd a special stockholder's meeting of the company was called and held in Fairbanks. The purpose of this special meeting was to remove Mr. Pettijohn and Jack Scavenious from the Board of Directors, and get an accounting of the funds, equipment, etc. from Pettijohn. Presumably it was a lively meeting, objectives obtained and some harsh charges levelled which some say may cause the offender to spend some time as a guest of the people. It is understood that with the above accomplished, new funds and/or control of the Company is to pass to some officials of the Trans World Air Lines. It is to be hoped that with this presumed new participation some really constructive work may be programmed and a worth while property developed.

3. Western Alaska Mining Company - this outfit was composed of a group of NCA employees who had the urge to get into the mining business. A partnership, apparently it has been inactive as far as I know since 1955. Ray Anderson, an NCA pilot, was one of the moving spirits in the
venture. You might contact him but I am sure that he would give you
the same dope.

4. Gold Hill Mining Company - this outfit rings a bell, but at
the moment I can not recall where they are located or whether they have
been doing anything with their prospect.

5. Denali Placers - regarding this venture, I am not sure who the
individuals are connected with it. However, I will dig this information
out, as well as the Gold Hill and forward to you at a later date. At
this time I will probably also have the dope assembled to send to Jim
Williams on the other activities in this region.

Regards and best wishes.

MARTIN W. JAMER
Mining Engineer
August 18, 1959

Mr. James E. Carrel
Assistant to President
Permanente Cement Company
Kaiser Building
1921 Broadway
Oakland 12, California

Dear Mr. Carrel:

Your inquiry of August 13th was received yesterday, as well as a copy of Mr. Williams' August 11th letter to you on my return from a week's field trip. With regard to the two limestone deposits along the Anchorage-Seward Highway, I was informed yesterday that the Little Rabbit Creek deposit had been sold or a deal made for it sometime last week. It was reported to me that the people taking over the deposit are reputedly a group of local business men. I will make inquiries shortly to determine and/or confirm whether such a deal was in fact made.

I have not been familiar with the Little Rabbit Creek deposit other than knowing its general location and the owner, who had never made a request of our department to examine the property.

With regard to the deposit at Mile 6 on the Anchorage-Seward Highway which is said to be held by E. R. Semft, I have heard of it but never had the occasion to examine it. It is my plan to make a trip down that way shortly at which time I will try to contact Mr. Semft to examine it if he is inclined to let me do so, and otherwise get what information is available, from him. I will advise you of the situation upon my return.

Yours truly,

MARTIN W. JASPER
Mining Engineer
Enclosed is copy of letter to Mr. Carrel referring to two limestone deposits described earlier by Phil in a letter to Mr. Ken Brooke. Mr. Carrel desires further information on these two deposits, and we are referring him to you in case you know something of them.

Our records indicate the deposits as follows:

1. Anchorage Quadrangle. Little Rabbit Creek, 220 feet east of Anchorage-Seward Highway. Five mining claims held by Thomas Maly and James George. Last recorded assessment work in 1956.

2. Seward Quadrangle. West of Mile 6 bridge on Seward-Anchorage Highway. One mining claim held by E. R. Senft. Assessment work recorded up to date.

Chuck Herbert writes that Sharon Kelly gave you a real fine talk at the ADHS function. Apparently he talked on the need for more metals in the future and the mistakes people are making in withdrawing lands. Certainly wish I could have heard that. That kind of material we can always use.

JAW:ds
enc.
August 11, 1959

Mr. James E. Carral
Assistant to Vice President
Fermemente Cement Company
Kaiser Building
1924 Broadway
Oakland 12, California

Dear Mr. Carral:

In re Limestone Deposits on Anchorage – Seward Highway

Regret that we have no further information on the two limestone deposits on the Anchorage-Seward Highway described in Mr. Holdsworth's letter to Ken Brooks of May 19th.

Our mining engineer stationed in Anchorage is likely to know something further of these deposits, and we suggest you write to him. His name and address are Martin W. Jasper, State Division of Mines and Minerals, 329 Second Avenue, Anchorage.

Very truly yours,

James A. Williams, Director
Division of Mines and Minerals

JAW:ds
cc - Martin Jasper
July 30, 1959

Mr. Phil R. Holdsworth
Department of Mines
Box 1391
Juneau, Alaska

Dear Mr. Holdsworth:

Ken Brooke has passed on to me the information in your letter of May 19, 1959 regarding three limestone deposits in Alaska. We have information on the deposit you gave him in the Seldovia quadrangle, but would like further information from you as to where we could inquire for more data on the other two deposits—one being in the Anchorage quadrangle on Little Rabbit Creek, 220 feet east of the Anchorage-Seward Highway and the other in the Seward quadrangle west of Mile 6 Bridge also on the Anchorage-Seward Highway.

We are interested in such information as the size of the deposit, the chemical analysis and the elevation.

We would appreciate it if you could direct us to the proper source of this additional information.

Very truly yours,

PERMANENTE CEMENT COMPANY

James E. Carrel
Assistant to Vice President
June 23, 1959

Mr. Scott O. Simenstad
Walsh Construction Company
P. O. Box 547
Cordova, California

Dear Mr. Simenstad:

In re Mineral Possibilities of Prince William Sound

Governor Egan forwarded your letter for answer. We do not know of the iron deposit in Valdez Arm of which you speak, although it might be something that has missed our attention.

We have the USGS and USG publication on Prince William Sound, which I gather from your letter you already have or are familiar with. In addition, we have reports by various engineers on individual properties. If you will tell us specifically what you are interested in, we will know what to send you. Otherwise, it is not practical to just start sending copies of everything.

Prince William Sound is definitely a copper country, and we feel there is definite promise of minable ore bodies to be found there. However, it is going to require extensive prospecting, which is expensive, to turn something up that is good.

If we can help you further, please do not hesitate to write. If you are planning a trip north, by all means stop in our Juneau office and take a look at our files and talk things over with us.

Very truly yours,

James A. Williams
State Mining Engineer
Division of Mines and Minerals

JAW:da
June 18, 1959

Mr. Scott O. Simenstad
Walsh Construction Company
P. O. Box 547
Oroville, California

Dear Scott:

It was nice hearing from you. Thank you for the kind personal remarks.

I sincerely hope you will be successful in developing a mineral operation in the Prince William Sound area. I am directing your letter to the Department of Natural Resources, and I am sure you will hear from them shortly.

I look forward to seeing you when you are in Alaska.

Sincerely yours,

William A. Egan
Governor

cc: Commissioner of Natural Resources
June 16, 1959

Hon. William Egan, Governor of Alaska
Executive House
Juneau, Alaska

Dear Billy:

It was nice to hear that you have virtually recovered and are now back in the harness. From what they tell me there are no further complications anticipated, for which I am very personally grateful.

As you know and when we were kids around the Valdez-Cordova area, I was always extremely interested in the mineral potential and in these last ten years when time would permit, spent a good portion of it on reconnaissance work primarily in the Kotsina-Kuskiquin area. To fit into our thinking at the present time, we would like to work a simultaneous operation in the interest of economy in the Prince William Sound area also.

Dominick Vietti told me about an iron deposit located in the Valdez arm and although we have no objections to starting out on such an expedition, we would like to have a little more data that possibly the State Department of Mines might have. I have already acquired considerable data on the area from the Federal Government Bureau of Mines, however it is extremely obsolete.

I was writing this letter in hopes that you could direct it to one of your proper departments, and any publications or reports that they can give me would be sincerely appreciated.

I have already written George Gilson in an endeavor to get him away from the mercantile business for a trip up the bay and through our combined efforts perhaps we can gather sufficient data to plan our trip properly.

My very best personal regards and hoping to have the opportunity to see you on the way either in Juneau or Anchorage. I am

Very truly yours,

WALSH CONSTRUCTION COMPANY

[Signature]

cc- L. E. Huntington
May 19, 1959

Mr. J. K. Brooks
Kaiser Aluminum & Chemical Corporation
Kaiser Building
1924 Broadway
Oakland 12, California

Dear Ken:

In reply to your inquiry of May 15, 1959 relative to limestone in South Central Alaska, we have the following three items of possible interest in our files:

(1) Anchorage quadrangle. Little Rabbit Creek, 220 feet east of Anchorage-Seward Highway. Five mining claims held by Thomas Mely and James George. Last recorded assessment work 1956.

(2) Seward quadrangle. West of Mile 6 Bridge on Seward-Anchorage Highway. One mining claim held by E. R. Senft. Assessment work reported up to date.


The only publication we have covering limestone is the one on which Fay Libbey based his report on Southeastern Alaska. There is some limestone on the railbelt about halfway between Anchorage and Fairbanks. Little interest has been shown in the past in limestone in your general area of description. We are enclosing a copy of Pamphlet No. 6 covering the Southeastern limestone deposits.

This isn't very much information, but hope it is at least a start for you.

Kindest personal regards.

Sincerely,

Phil R. Holdsworth, Commissioner
Dept. of Natural Resources

PRH/cm
enc.
May 15, 1959

Mr. Phil R. Holdsworth
Commissioner of Mines
Department of Mines
Box 1391
Juneau, Alaska

Dear Phil:

One of my professional friends has asked me for references on limestone occurrences in a limited area of Alaska. I have never been in Alaska so do not know the area names that you use up north. The center of interest would be more or less Anchorage and Seward, and extend along the southward looking coast from more or less 140°-160° W longitude. This excludes Southern Alaska, the Aleutians, the parts facing on Bering Sea and the Arctic Ocean and the great mass of the interior of Alaska. It looks like Cook Inlet, Kenai Peninsula and Kodiak Island might be of interest, though interest could extend farther east and west along the coast to the longitude limits mentioned.

Can you refer me to any specific publications on limestone within this area, or even on just general geology and geological maps, that might include discussions on limestones.

I realize that the Alaska work of the U.S.G.S. is done out of Menlo Park, California and that Menlo may also have both published and unpublished information on limestones in the same area.

Thank you for any guidance that you can give without putting yourself to a great deal of work. I have in mind that some organization in Alaska perhaps your own may have put out a specific publication on the limestones in Alaska such as Fay Libbey got together on the Pacific Northwest for the Raw Materials Survey of Portland. Fay covered southeastern Alaska only.

Best personal regards.

Sincerely,

J. K. Brooke

JKB:fw
April 15, 1959

Mr. John H. Dryer
E-Chester Box 3-515
Anchorage, Alaska

Dear Mr. Dryer:

We wish to acknowledge receipt of your letter of April 3, 1959 relative to some unconsolidated gold bearing material which you wish to mine and mill. As long as the material is not in place in solid rock with definitely defined walls, it cannot be staked as a lode claim. We believe the material you mention must be staked as placer.

We would suggest that you contact our engineer Mr. Martin W. Jasper in the office located at 329 Second Avenue, Anchorage. We believe he could be of some assistance to you in determining the method of staking the ground in question and its treatment.

Mining claims cannot be staked on tidal land. However, there are provisions in the mining laws which allow a person to recover precious metals from tidal land material without the staking of claims. Again we would suggest that it would be worth your while to pay a visit to our Anchorage office and discuss your problems in person with Mr. Jasper.

Sincerely yours,

Phil R. Holdsworth
Commissioner of Mines

cc - Martin W. Jasper
MEMORANDUM

FROM: Martin W. Jasper

TO: Phil R. Holdsworth

DATE: April 22, 1959

SUBJECT: JOHN H. DYER PROJECT

Mr. Dyer was in the office Monday this week concerning his "project". He has been a frequent visitor to this office throughout the period I have been here.

From his past discussions of various pet "projects" it is evident he is quite dreamer. So far as the numerous proposed (and in some cases carried out to certain points without profit to anyone) ventures of the past six years are concerned, none of them practical, and certainly none of them have been successful. His last venture - the only one I appraised - was an abortive effort concerned with a placer venture a few hundred yards up stream from Seward-Anchorage Hiway bridge crossing Victor creek. At that point - which is a short distance below a canyon section of the stream - he attempted to put down a shaft or two to bedrock on the right limit of Victor creek. This shaft did not reach objective, and material removed and remaining on the dump was glacial clay with some gravel lenses of same origin. Panning of dump showed no colors. Near this location he had set-up a slack-line scraper and made a short effort to move the material (of similar nature) from left limit bench of Victor creek. This project was abandoned, apparently about the time of my visit, as no one was there and no work is reported as having been done since then in the area.

Confidentially, the area he mentioned in his April 3rd letter to you (addressed to Dept. of Mines, Juneau) is located in a lowland area in vicinity of Columbia glacier. From the "details" he gave in his letter and additional gems of information he gave me in our discussion Monday, his proposal and plans seem obviously impractical, and his claims of values are based on "nebulous" theories - most certainly not upon a sampling program.

Somehow, John has accumulated a lot of 2nd hand equipment. He must raise money by some promotional means, as I am sure he has none of his own. To date I have never received or heard of any complaints concerning his "promoting - my idea is that he gathers a few fallows together as "working partners" and that very little actual cash is involved.

Men who have known him years ago state he was a prodigious worker, and personally honest. In recent years they suggest that he has been a bit "off his rocker". Personally, from my many contacts with him, it seems obvious that he has lost his practical sense of value - assuming he ever had the same! For years he has owned the Dyer Au-qtz property across the glacier cirque from the old Crown Point mine. He leased that property 3 or 4 years ago to a Seward group, and claims the lessors failed to pay him the full royalty due from production. That may be so - actually, though, their production was much less than Dyer reports so far as I have been able to determine.
March 6, 1959

Mr. W. H. Loerpabel
307 North Longfellow Avenue
Tucson, Arizona

Re: reports on copper prospects -
Copper River area - 3d Division

Dear Mr. Loerpabel:

Your letter fell into the right hands. We have the most complete files of information on Alaska minerals in existence. However, a general inquiry such as yours is difficult to answer. We have a complete file of USGS Bulletins on Alaska, files of reports by engineers of this department and others, location and ownership information on claims, and other information here in this office. However, to do a research project or general surveying up of an area or district, a person needs to visit this office and spend some time checking through, and perhaps studying, what we have available. A number of companies have planned their reconnaissance exploration programs here.

We enclose a USGS index map and accompanying list of Alaskan bulletins from which you can determine what bulletins may be of use to you. Perhaps you can obtain them at a local library. If you care to tell us what particular properties you might be interested in, we will be glad to check the files for that specific information, and if we have reports of interest to you, we can possibly get them reproduced and send them to you. Your inquiry will be held strictly confidential if you so wish.

The Richardson Highway is mostly black-topped now, I believe, though some may be yet gravel. It is generally kept open during the winter except for short spells of severe snow conditions, and a weight restriction is placed on it during the spring thawing period. For further information along this line and for highway freight rates, write to any or all of the following:

Alaska Freight Lines
Merrill Field
Anchorage, Alaska

Garrison Fast Freight, Inc.
Warehouse Terminal Yards
Anchorage, Alaska

Weaver Brothers, Inc.
Terminal Yards
Anchorage, Alaska
We have nothing published on winter freighting with tractors, but it has been going on up in this country ever since the placer miners traded their horses in for tractors. It was developed to a fine art, you might say, since the war by the U.S.S.R. & M. Co. in moving dredges from one creek to another, and particularly up on the Arctic Slope in the Naval Petroleum Reserve No. 4 oil exploration work. A man who had a great deal to do with the latter freighting operation is Ted C. Mathews of Exploration Services, Inc., P. O. Box 2061, Fairbanks, Alaska. Perhaps you could get some information from him.

Very truly yours,

James A. Williams
Territorial Mining Engineer

JAW:ds
enc.
Air Mail

307 North Longfellow Ave.
Tucson, Arizona
February 25, 1958.

Department of Mines
State of Alaska
Juneau, Alaska

Gentlemen:

I am not sure that I am addressing this letter correctly, but I hope that it will fall into the right hands. I am a mining engineer, at present investigating reports of copper prospects in the Copper River area, northeast of Valdez. If you have a list of technical publications on this area I would appreciate your sending it to me.

Also I am interested in investigating the cost of transportation of ore or concentrate over the Richardson Highway. Can you tell me where I can obtain information on the condition of that highway, summer and winter, and the present cost of trucking over it?

Does your department publish any data on the use of tractors and sleighs for winter transportation in that country? If so I would like to obtain copies.

Yours very truly,

W. H. LOERPABEL
To: Jas. A. Williams
From: Martin Jasper

Subject: E. E. MAILLOT, HELPEE DOGEE CORP. INQUIRY RE COPPER PROSPECTS
SHEEP MT., LITTLE SUSITNA-MOOSE CR, & PAINT R. AREAS

Enclosed you will find copies of my replies to Mr. Mailloit's inquiries, which finally completed and mailed yesterday.

Many thanx for sending me the list of Cinnabar References — it will come in very handy.
Mr. Phil R. Holdsworth, Commissioner
Territorial Department of Mines
Box 1391
Juneau, Alaska

April 17, 1956

Dear Phil:

Thank you very much for your letter of April 6th. I quite understand about the drill and am almost ready to agree that we need one of our own. Maybe we'll have to get one this summer, at least I hope so.

Art Glover has been digging up a good bushman for me and I expect to come to Ketchikan this week to see him. Also, I received an application from Donald E. Pruss, who states that you mentioned our name to him. I will also try to talk to Pruss in Anchorage. Perhaps we can use him, but he will not be available until July, which is rather late.

Hope to see you soon.

Regards,

Mac

John P. McKee

DEPARTMENT OF MINES
RECEIVED
APR 1 8 1956
JUNEAU, ALASKA
Thanx also for your Memo on this company's plans for the season.

With regard to Gus Palm I can well imagine Tub Garrett's reaction to Palm's request for employment on field work. Last year's experience would have scratched the fellow off my list as well.

With regard to Keith Young he is the one Phil mentioned to you. We both feel he has his feet on the ground and believe he will be a good asset for Stewart, Garrett, and Lundeen to have on their roster.

I also feel that George Kalmbach will prove to be a good man to work with Lundeen and Garrett. A Michigan State graduate, he has spent his "leave time" up here making field trips on his own account. Last year went in alone to the upper Kashwitna River copper shows; did not find the narrow highgrade veins, but brought back a few pieces of diorite in which the hornblende had been replaced by bornite. This latter would be of more interest to me than the narrow veins. Reported he located one claim on his 2nd trip. George has taken up a homestead in Wasilla area with plans to stay in the Territory; however, he would forget that if Cyprus decided to keep him the year round and wanted him to go outside.

Ed Brenner was in yesterday but I was busy and did not get chance to ask how the No.9 Grub Creek venture was progressing. They are hauling in a lot of heavy freight, including lot of rails, pipe, etc they got from Bob Boyd's employer at Eklutna.
you want there you should be able to get what
several weeks you have a computer service in another city with

(3) there is a computer service in another city with

(2) goes here or in Van der

(1) of several months ago difficulty.

Proberty could arrang a charter boat out

At your Telephone Service at extra cost free Cask.

Serves the other of the ships. Would suggest

(b) at an impossible other meet and less plane at the

has enough here to make a "go" of it there.

(a) we do not know. On occasion are small plane

March 30

AIR TIME TO AMEND YOUR OTHER AGREEMENTS IN ORDER TO MEET OR (REMEMBER - I believe,)

there lies to the public would have a copy of "Amendment" to the write all the time it the opened

and has been your part to be to open to public inspection. We

proposed to cheaper. Be to use our contract regarding the fact next time

impressed on all of you that these are subject to the area you

the proposed some more claim aspects. On the subject of

would some proposed (thinks)

are not the same information

agree with you completely, ( eliminates) of one of the

the best closely hold enough claims to warrant purchase or one of the

for which the agreement will be retained. I could do wrong but it seems

would be able open to criticism as to how properly classify the purpose

for assessment work we could not let a DIII or any of that reason. He

first to answer your question on the use of the portable DIII

Dear John:

Forest Grove, Oregon

route 2, box 64

Mr. John P. Jones

April 6, 1956
April 6, 1956

Sure glad to hear that our efforts on the Union Bay deal may yet bear fruit.

Kindest personal regards.

Sincerely,

Phil R. Holdsworth
Commissioner of Mines

PRH;je
Encl.
Dear Jim:

Thanks for your letter of the 27th. Every time I write to Phil, you reply, and vice versa.

Since you have been kind enough to stick your neck out by offering to secure further information on transportation facilities, I will put a few more questions:

a) Is there an air service at Seward?

b) What air service would you use out of Anchorage, to get an airplane by the week?

c) Any possibility of charter boats (to handle 4-6 men) out of Seward?

d) Are any pack outfits (horses) available out of Valdez?

e) Is there a reliable charter helicopter service with open summer time at Anchorage? Would Alaska Coastal take their helicopter to the area on charter (please do not identify beyond 'Anchorage vicinity' or the like)?

In case that doesn't hold you for a while, in reviewing the claim map sketches received so far I find none for LaTouche Island, and do not believe that I asked for any of the area south of Fort Valdez (Midas Camp to Jack Bay, etc.). When convenient, will you please let me have those also?

I can understand about the use of your drills for straight assessment work, however, would appreciate the final word on this when it is available. If no drills are available for such work, what type of work do you recommend to satisfy the requirement? (Maybe I could get Louis Stich to shoot some rock trenches, etc., how does that sound?).

When I first called Phil on this new project of ours, I inquired about unpatented claim coverage. Since nothing has been conveyed on that score, I gather that the question is
out-of-bounds or else you have forgotten about it. Would it be fair to inquire about what the proportion is of patented to unpatented ground? I can of course dig this dope up for myself later, but meanwhile am wondering how extensive unpatented coverage may be. If you don't want to answer this, 'nuff said.

Regards,

[Signature]

John P. McKee

JPK:imm
March 27, 1956

Mr. John P. McKee  
Route 2, Box 64 A  
Forest Grove, Oregon

Dear Mac:

Yours of the 22d to Phil received, and since he is out of town at the moment and I can answer your questions, I will take the liberty of answering it. It will be left on his desk for his information, however.

The specimens were returned OK.

We appreciate the report on the susceptibilities, and if I understand the figures correctly, it looks as if you are in business. The reason for my making the remarks about understanding them is that up to now I have always seen susceptibility figures given to the plus power and these are to the minus power.

Your proposed project sounds mighty good and thanks for telling us about it. Glad you are really going to get rolling up here. Hope we can help out.

For charter planes out of Cordova, you have only the Cordova Air Service to call on, unless some private pilot has started up that I haven't heard of lately. They have a fair number of small planes on wheels and floats and one ski-wheel combination for glacier work, if that tickles your fancy. With one exception so far, my experience with them has been pretty good. The generally give good service, I believe. They are the ones that did the fast shuffle for Warren that time I told you about to let him catch the DC-3 out of town. Their prices are something like $35 an hour for a Cessna 170 and $45 or $50 for a 180.

Boats I am not so sure of, not having ever looked into that at Cordova. There are plenty of boats there, but nearly all are work boats and mostly they seem to run to an extra large open skiff type of boat. I am quite sure that you can charter a boat there, though, at any time except perhaps when a good run of salmon is on. If you want us to go further
into it for you, we will be glad to. Also you might pick up
one at Valdez, if not Cordova. No planes at Valdez, though,
unless you have them come from Cordova or Anchorage.

No, Cordova is not quite connected to the highway
net, as yet, not be about 100 miles. Eventually, there will
be a road up the Copper River to Chitina, but please don't
hold up operations while you wait for it.

Thanks for the dope on progress with U. S. Steel.
Sounds promising.

Now that I read your letter over again, I realize
I can't answer all the questions as well as Phil, but since
I have gotten this far, I'll send it anyway. On the drill the
Act that set up the equipment rental was passed with the intent
that it should help prospectors make discoveries and develop
their prospects. Since your purpose would be strictly for
assessment work, though admittedly you would be doing develop-
ment work, yours might be a different case. I'll pass the
back to Phil on this one, and see what he says. If it is OK,
for you to use it, the drill is idle at the moment, but the
snow is mighty deep yet. Two uranium hunting outfits are waiting
to use it when conditions permit. We rent it out at $10 per day,
and try to limit it two weeks per customer so that it can be
spread around as much as possible. You buy your own bits. As
to who gets it when, first come first served, so long as the
customer is reliable and the purpose is right. I'll talk to
Phil about it and one of us will let you know as soon as he
returns.

Best personal regards,

Sincerely,

James A. Williams
Territorial Mining Engineer

JAW:ds
DEPARTMENT OF MINES
RECEIVED
MAR 26 1956
JUNEAU, ALASKA

Mr. Phil R. Holdsworth
Commissioner, Territorial Department of Mines
Box 1391
Juneau, Alaska

March 22, 1956

Dear Phil:

Thank you for furnishing the samples to Hycon Aerial Survey's. Mr. Hunter states that the specimens have been returned to you undamaged and I wish you would let me know if this is not correct. I sent George Cates a copy of the susceptibility determinations and enclose one for you also in case it is of any interest.

We have decided to have a go at the area discussed with you by telephone and the size of the attempt will undoubtedly keep us in Alaska this season. Because of topographic conditions, technique limitations and non-availability at present of suitably equipped helicopters, we have had to plan on two separate stages of work. The initial large scale (for us) air phase will be starting very shortly and I will be about 5 or 6 weeks behind it with foot soldiers to carry out the second method application on the ground at the spot locations obtained by air (we hope). Will discuss this in more detail when I next call at Juneau, which should not be too long from now.

Meanwhile, I wonder if you or Jim can tell me anything about charter boat and aircraft availability at Cordova? If there isn't much there, where else would you go for such services? Also, if there a highway connection between Cordova and the Alcan as yet?

You will be interested to know that Warren has made progress at Pittsburgh. The handling right now is about two specific points in a lease proposal received by us, so we are no longer out and out interlopers. That we have been able to reach this point is certainly due in large measure to the stand which you took in the matter in 1954. If we get lucky enough to turn up a producer this summer, that may serve to some extent to repay the earlier account.

What is the chance of getting one of your pack sack drills to do assessment work at Snettisham? This might be done right away if you believe the snow would permit, otherwise it would seem best to contract it, if possible, to someone for May or June when I shall be busy elsewhere.
Also, we might want a small drill about mid-summer; how do you let these out in a case of that sort?

Please thank Jim for his letters and recommendations. The maps showing patented claim coverage were not discouraging and have been most helpful.

Regards,

John P. McKee

Encl: list
ALASKAN ROCK SUSCEPTIBILITIES

Pyrrhotite specimens from Alaskan Geological Survey:

| Sample Code | Quantity | Susceptibility
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<td>5417</td>
<td>2 Pcs</td>
<td>$9.230 \times 10^{-6}$ cgs</td>
</tr>
<tr>
<td>5456</td>
<td>1 Pc</td>
<td>$1.340 \times 10^{-6}$ cgs</td>
</tr>
</tbody>
</table>

Ore samples from USGS:

- CLS Ellamar #1 (pyrrhotitic) $648 \times 10^{-6}$ cgs
- CLS Ellamar #2 " $1.620 \times 10^{-6}$ cgs
- GOG Ellamar #1 " $2.130 \times 10^{-6}$ cgs
- GOG Ellamar #2 " $100 \times 10^{-6}$ cgs
- GOG Ellamar #3 (massive pyrite) $100 \times 10^{-6}$ cgs

The greenstone samples from the U.S.G.S. proved to be essentially non-magnetic ($K < 100 \times 10^{-6}$ cgs)
March 26, 1956

Mr. Blair W. Stewart,
Cyprus Mines Corporation,
523 West Sixth Street,
Los Angeles 14, California.

Dear Blair:

Enclosed you find the reply of Owen Meals to my inquiry concerning the address of the Simms Company and/or men associated with that organization.

Owen's letter - received this morning - may be of some assistance in effort to contact men formerly associated with the Acme Mining Company and with the Simms Company. Mr. Howard B. Kinsman at the 115 Terecita Blvd, San Francisco, may prove to be the easiest one to contact.

You can return Mr. Meals letter at your convenience.

It is to be hoped that the above (and enclosure) will be of real use in finally getting the information you wish concerning the old Wiley copper prospect, located on Ptarmigan Creek.

With kind personal regards,

Very truly yours,

Martin Jasperr
Territorial Mining Engineer

March 23rd & 24th AIME Meetings:

The Banquet and Forum on following day were well received, and considered the best deal the local section has had to date.

We are advised that the current Nat'l AIME president will visit our section in late June or early July this year (with few days fishing, etc thrown in). It is hoped that you, Tub, and Bill may be in the area at same time, and join in the "whoopie".

Havnt seen or heard of Neil Finnie and but will deliver your message when I do.

Still on our "homestead" - no takers yet to retrieve our equity and get the other place. Chances dont look good at the moment.

M J
Office Memorandum, Territorial Department of Mines

To: Phil R. Holdsworth
From: Martin Jasper
Date: March 13, 1956

Subject: MAGNETITE & KENAI & TYONEK QUADRANGLES. (IN WITHDRAWN AREA).

CONFIDENTIAL

Keith Young was in yesterday to ask if we had any information regarding magnetite occurrence in Tuxedni Bay area. First time had met him - he is a flyer, and states Explorations Inc. is a local group of six men with him the only active field man.

With regard to the Tuxedni area advised him the only occurrence that had been called to our attention was the one I made two efforts to locate without success and that we were latter advised of its correct location and that it was not considered of interest.

Got map and showed him above reported location, but he stated that was not the one he had in mind. His interest lies in a reported 25 ft width occurrence which cuts across Chisik Island about 1/3 the way north of Islands south end. That was first I had heard of that supposed occurrence which he plans to check on soon as weather conditions permit.

From there Mr. Young went to advise of his activities past two seasons, during which he claims to have found a number of magnetite occurrences in the Susitna region - I should say southwesterly from Hayes Glacier field on Cook Inlet drainage side of Tynec and Kenai Quads.

He reported that he thought the possibilities of sufficient potential magnitude to have contacted Alexander Smith, Geologist, of St. Eugene Mining Co. (Frobisher-Ventures group) who plans to make an examination of the areas soon as weather conditions permit. (Hence my enclosed CoP of invitation to Mr. Smith). He also mentioned having been in contact with Columbia Steel (U. S. Steel subsidiary?), referred to a Chas. A. Campbell, mining Engineer, also Vancouver man, which I inferred might also be up to look over these occurrences. I believe the Chas. Campbell is an engineer I know of that name - if so, he is a very competent man.

Mr. Young's principle reason, I believe, in speaking of these latter occurrences, which he knows to be in military withdrawal area, was to determine what the actual restrictions were as concerned mining. I had noted last year, when the air force had additional land withdrawn in upper Skawenta region they reported it remained open for prospectors at their own risk; whether the land on which his reputed magnetite deposits occur is included the 1955 withdrawn area I do not know.

Young was here for better part of an hour, and on leaving I advised him that you would be up for 3 or 4 days around March 23rd and it would be a good idea to dig into the matter with you - which he said he would like to do. Another problem in which you can be of real help, I believe.

I liked Mr. Young's appearance and approach to his problem - it was the first I had heard of his Explorations Inc.

M J
To: Phil R. Holdsworth  
From: Martin Jasper  
Subject: KOTSINA-KUSKULANA DISTRICT - OWNERSHIP OF COPPER PROSPECTS  
Office: Anchorage  
Date: March 9, 1956

Wrote Blair Stewart yesterday regarding results of my researching the local BLM offices for additional information.

As you will note I have not as yet been able to add a great deal to the sum total of information on the list of properties they sent to you.

While in Sieser's office, he called my attention to a fairly thick volume - about 1½ thick - reproductions he made from a volume he had obtained for the purpose from Mr. Chipperfield. The Title is -

MINING CLAIMS - TERRITORY OF ALASKA

and was compiled by -

ALASKA PLANNING COUNCIL in May 1939

There are nine headings at top of each sheet reading as follows -

| Survey No. | Date of Serial Survey No. | Claim Name | Mining Area | Recording Date of Mining Area Patents
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Precinct Patent</td>
</tr>
</tbody>
</table>

This volume would be a highly desirable one to have, as in glancing through it there appears to be quite a complete listing of Patented ground (mining), and Mineral surveys completed but patents not necessarily issued or finally applied for.

Do you know this volume and/or do you have a copy of it? Looks to me as though it could save a lot of time in "researching, and that it would be highly desirable to have. Let me know about it - if you do not have a copy of that volume arrangements could probably be made to get copies of that record reproduced here from Chipperfields copy.

Will keep my ear to the ground and spend some more time trying to get or add to the sum total of information on the copper claims named in your reply to Blair's letter.

M J

RECEIVED
MAR 2 1956

JUNEAU, ALASKA
March 8, 1956

Mr. Blair W. Stewart,
Cyprus Mines Corporation,
1206 Pacific Mutual Building,
523 West Sixth Street,
Los Angeles 14, California.

Dear Blair:

RE: Kotaiina-Kusakulana, White River, & Nabeana
Districts Patented Copper Claims
RE: Phil Holdsworths Feb. 6th Letter

Researching in the local Bureau of Land Management offices, as a "follow-up" on Phil's office investigation, has not been very productive to date in determining ownership of the several old properties you are interested in.

The following comments are made in the order of Phil's Feb. 6th letter to you:


On Feb. 1st, 1955, I received inquiry from C. W. Anderson, Headquarters A. A. F., Elmendorf Base, Anchorage regarding what information we might have regarding the Great Northern company. He advised that he had recently been transferred from the east coast and some friends who held some stock in the company asked him to check on the status of that company. He did not give their names, addresses or extent of their stock interest. The Col. advised that Duncan V. Harrison, was (had been) president, secretary, or some other instrument in its organization and/or promotion.

In reply to my inquiry regarding the Great Northern to Phil at that time (2/18/55) he advised the Great Northern had the 33 patented claims on Clear Creek, a second group of 23 patented claims covering the Green Butte property west of the Kennecott Mine on opposite side of McCarthy Creek, and a third group of 8 patented claims on Donahoe Peak, which is also just west of the Kennecott Mine.

There was some confusion in Col. Anderson's mind as to name of the company - he thought it was "Great Northern Exploration and Mines Development Company". Not finding any trace of this latter name Phil assumed (and I agreed) that it must be the Great Northern Development Co. the Col. had in mind.

(2) Alaska Consolidated Copper Company.

On this company the BLM Atlas sheets (3 sheets) in record book gives the following information: -

-1-
Alaska Consolidated Copper Co., McCarthy Holding Company.
Application by Geo. J. Stone, Attorney, Valdez, Alaska.
Mineral Survey No. 892, Serial No. 1409.
Buffalo, Blue Bell, Pennsylvania, Whitehorse Lode Claims
(Presumably this group did not go to Patent after survey was made).

Alaska Consolidated Copper Co.
Application by Geo. J. Stone, Attorney, Valdez.
Mineral Survey No. 891, Serial No. 1&10.
Carmontown Lode. 17.561 Acres.
Patent sent to company. Fred C. Bard, Asst. Sec., 60 Wall St., N. Y.
(I have a vague recollection that one of the Arizona copper companies
- Miami, United Verde, or Phelps Dodge (? ) had and possibly still
hold some patented claims in this general region. Could the old
Wall Street address be one of them, and this be the property???)

Alaska Consolidated Copper Co.
Application by Geo. J. Stone, Attorney, Valdez.
Mineral Survey No. 693, Serial No. 1411. Wisconsin & other Lodes.
Tom Thumb, Tom Thumb No. 2, Lucky Boy, Valdez, York, Wilkesbarre,
One (? ) Girl, and Comstock Lode Claims. 619.83 acres.
Record did not state but it probably was also sent to Fred C Bard, N. Y.

The BLM did not have PLATS available; they are in considerable turmoil
as they have been moving offices and are not too well organized to date.

Presumably the Barus Group (generally known (?) as Copper Queen) is not patented.
Moreover, will do some more digging on this one.

(3) Hubbard Elliott Copper Company, Elliott Creek. This was promoted in
Chicago in the late "teens". Mr. Hubbard, who was an active instrument in
that promotion venture - and with Mr. Elliott, one of the locators - gave
me a rambling account of that project two years ago. He is still alive, un-
derstand he lives in Seward, and it might be worthwhile to contact him when
you come up this season. However, he is not considered an especially reli-
able gentleman, and I would believe that the two references Phil gave you
Mrs. Bertha W. Hubbard, San Diego, and Carl F. Gould (architect), Seattle,
would be the most desirable to get in touch with, in view of their ownership
of the property (ref. Phil's Feb. 8th letter).

Orange Hill claims, Nikonda Creek, Napesna River drainage.

So far as local BLM office is concerned, they have no record of a patent
having actually been issued, although the survey was made for that purpose.
Knowing off the Orange Hill claims for many years it has always been my im-
pression they were patented - at least Copper River valley residents have
advised me they were in the past. Bear Creek Mining Co. (Kennecott subsid.)
dropped their option 2 years ago following some geophysical work, some trench-
ing, and possibly some drilling.
March 6, 1956

Mr. John McKee
Route 2, Box 64 A
Forest Grove, Oregon

Dear Mac:

Phil said you want the locations of patented ground in the vicinities of Cordova and Elsmar. Enclosed are three tracings which cover the situation. Also enclosed is a list of Prince William Sound copper references that I compiled for someone a while back and had forgotten about. It wasn't you, was it? Anyhow, I ran across it in my file and thought perhaps you could use a copy.

So what's new? I see Phil sent some samples to Rycon for you to be tested for magnetic susceptibilities. That's the outfit that has the exclusive use of the new Varian hydrogen-nuclear orientation magnetometer, isn't it? I presume you got a look at the outfit while you were there.

The snow is piling up something frightful now. Setting some kind of record. Just won't seem to stop.

Sincerely,

James A. Williams
Territorial Mining Engineer

JAW:ds
Mr. Phil R. Holdsworth  
Commissioner of Mines  
Department of Mines  
Box 1391  
Juneau, Alaska  

Dear Phil,

Thank you so much for your letter of February 27 and the enclosed reports by Bob Saunders and E. D. Stewart. I am very glad to have these and am sending copies along to Tub Garrett so that he can study them and give me his views.

The reports do not engender much enthusiasm in the area, primarily due to its remoteness. Further, there is considerable doubt in my mind that the nickel mineralization could be primary in the limestone. It would appear to me to be more logical for it to be a secondary precipitation derived from leaching in the nearby basic rocks.

You are quite right that we are up-to-date on our previous request except for the claim information from Martin. There is no particular hurry in this, as I know he is busy in many other affairs.

Many, many thanks for your help. Kindest regards.

Sincerely yours,

Clair W. Stewart  
CYPRUS MINES CORPORATION  

BWS:hh  

MARCH 2, 1956  

DEPARTMENT OF MINES  
RECEIVED  
MAR 5 1956  
JUNEAU, ALASKA
Chief Engineer of House

Phil R. Hotenworth

Sincerely yours,

on the Copper River area. We are enclosing a copy of our old report of the period where the error we now believe to have a production of 6,000 tons per day with a market of only 5,000 tons per day. We believe you are aware of the fact that we now believe the copper grade on the present cost of production and that the same conditions exist with the expectation that you are aware of which we gave in 1925.

In reply to your request of February 24th.

Accordance, please
P. O. Box 374
Mr. Ralph Prince

February 27, 1936
February 24, 1956

Mr. Phil R. Holdsworth
Commissioner
Territorial Department of Mines
Juneau, Alaska

Dear Phil:

We have been retained by Cordova Airlines to prepare an economic exhibit covering the Prince William Sound-Copper River basin area for use in the forthcoming Intra-Alaska Air Services Case before C.A.B.

It would be most appreciated if you could give me a brief statement expressing your views on mineral development possibilities of the area.

Since I have less than three weeks in which to complete the report, an early reply would be most appreciated.

With kind, personal regards, I am

Sincerely yours,

Ralph Browne

February 27, 1956

Mr. John P. McKee
Route 2, Box 64 A
Forest Grove, Oregon

Dear Mac:

Back in the office again and I think I'll stay here now, except for field trips which don't ordinarily commence for some time yet. The good woman is quite happy with all the changes I made around the house for her. That should keep me out of the dog house for quite a while.

In answer to your letter of February 9th, I don't know how I could miss recommending the Kennecott country for aerial reconnaissance. Surely we are asleep on that one. We have been pushing for that area ever since I've been in the TDM. There's something like 400 or 500 square miles of the same geology that created the Kennecott ore bodies in that district, so in spite of all the past prospecting done there, we think it should be worked over some more. One drawback is the lack of aerial photographs east of 143°30' in the McCarthy quadrangle. The U.S.G.S. has been evading our requests for more geological works in the area with the excuse of no photos for base maps, but told us that they would have it flown for photos last summer. We have heard nothing further. You might check on this with the boys at Menlo Park if you are sufficiently interested, and if you learn anything, let us know.

Another copper district which we have been trying to get people to go into is the KOTSHINA-KUKULAMA which is drained by those two rivers and Elliot Creek. It is east of Kennecott and runs over into the Valdez quad. It is well covered by aerial photography.

Enclosed is an index of prospects I compiled for the people of Cordova several years ago in helping them promote the proposed Copper River Highway, and other material that was added later. Thought you might be able to use it for the references, though the list of references is by no means complete. I whirled up a fancy map to go with the index by pasting colored bits of paper to U.S.G.S. quads for the types of prospects. The belt of copper prospects (in red) makes a nice picture.

Brother, can you spare us a little of that shirt-sleeve weather? We'll surely be glad when spring finally arrives (assuming it will, some day).

Best regards,

James A. Williams
Territorial Mining Engineer
Mr. James A. Williams  
Box 1391  
Juneau, Alaska  

February 9, 1956

Dear Jim:

Many thanks for the map recently received.

I am also obliged for your thoughts on where to do aerial reconnaissance. The areas you mentioned sound okay to me. How about the Kennicott area in addition? And who would you fly with up there?

I recently sent Ken Loken an air photo of Delangle Mountain for him to mark the bonanza's location. I have pictures for the area from there to Cape Spencer, but can't see any iron on any of them.

Shirtsleeve weather here. Clear and sunny.

Regards,

Mac

John P. McKee
February 27, 1956

Mr. Blair W. Stewart  
Cyprus Mines Corporation  
1206 Pacific Mutual Building  
523 West Sixth Street  
Los Angeles 14, California

Dear Blair:

Enclosed are copies of the Orange Hill report by Pilgrim and the Ricks Nickel Prospect report by Saunders.

In regard to payment of back taxes, the only period during which a property tax was levied on property outside of incorporated towns was from 1949 to 1952. Should you wish to actually determine the status of a piece of land in regard to taxes, this information can be gathered by our office from the Tax Commissioner in this same building.

Guess this brings us up to date in fulfilling your current request other than some possible patented claim information from Martin at Anchorage.

Kindest personal regards.

Sincerely yours,

Phil R. Holdsworth  
Commissioner of Mines

PHR'cm  
enc.
February 13, 1956

Mr. Phil R. Holdsworth  
Commissioner of Mines  
Box 1391  
Juneau, Alaska

Dear Phil:

Thank you so very much for your letter of February 8th giving me the information on the several mining properties I inquired about. Also, thanks for the Forest Service map on which you marked the known outcrops of nickel mineralization. I certainly appreciate all the effort you have made in running this down for us and I am sure that it is going to be very beneficial to our further interest in these several areas. Our study was made on available data and, as you say, we may not have had the most up to date information. I am sure that we did not know anything about the drilling done on the Orange Hill group of claims on Nikonda Creek by the Bear Creek Mining Company a few years back. You refer to available records of drilling done in the 30's also and I am sure that we do not have these data. Is this information available in your office, or if not, where could it be obtained?

I am sending a copy of your letter on to Tub Garrett and after he has had a chance to read it we will then discuss what the next step should be in regard to running down ownership. It will be a great help to us, of course, to have the Land Office information you have asked Martin Jasper to obtain for us in Anchorage. When either I or Tub, or both of us, come up this spring we certainly want to go over these properties with you in some detail before moving out into the field. Those claims that have not had the taxes paid on them might be acquired by us but just how, I do not know as I am not familiar with Alaskan laws governing such matters. Here, property that becomes delinquent for taxes becomes State property. I presume that that may also be true in Alaska; if so, can they be purchased from the tax department by payment of back taxes and how many years back would such payment be required. In other words,
would all the back taxes, say dating back to 1930, or only the current period of delinquency have to be paid.

We have copies of U.S.G.S. Bulletins 947-G and 947-D and, as you say, they will be helpful in connection with our proposed airborne surveys.

We will keep you advised of what we decide to do regarding contacting the owners of the Hubbard Elliott claims at a later date. We, of course, want to keep you fully informed of our activities in Alaska but know that you will keep these confidential for the time being.

Again, many many thanks for your helpfulness, and best regards to you and Peggy.

Sincerely yours,

Blair W. Stewart
CYPRUS MINES CORPORATION

BWS/a

cc: Mr. S. K. Garrett
209 Tabor Building
Wallace, Idaho
February 17, 1956

Mr. John P. McKee  
Route 2 - Box 64 A  
Forest Grove, Oregon

Dear Mac:

Just a short note in answer to your last question in your letter of February 9, 1956.

The lower elevations in the Prince William Sound area are generally covered with timber, muskeg and other over-burden. It may be that if this mantle is too thick, it would interfere with airborne EM work.

Jim is still working on his house, and I am headed for Haines today. Will get the additional information on patented claims for you soon. In connected with unpatented claims on Knight Island, there are none presently held to the best of our knowledge other than the Rua Cove group.

Regards.

Sincerely yours,

Phil R. Holdsworth  
Commissioner of Mines

PRH'cm
John P. McKee
Route 2, Box 64 A
Forest Grove, Oregon

February 9, 1956

Dear Phil:

Thanks very much for the map showing patented ground on Knight Island. Is there any chance of getting some idea of the location and amount of unpatented ground in these areas?

I must be mistaken about your having visited McDame Creek. You ought to know.

In checking over the data on Prince William Sound, I have not yet encountered any major reason for discouragement. Probably the topography is rough enough in places to cause the method to be temporarily ineffective as the unit is flown over certain areas that are abrupt in character. It would be relatively expensive to fly because of the large amount of ferry time, even if a properly equipped aircraft were based at Edmonton, which isn't yet the case; the nearest one is at Toronto. I believe that the air phase alone would come to between $20,000 and $30,000, possibly more if aeromagnetics are done simultaneously. I haven't yet had an opportunity to discuss this matter with Warren as he is in the east again.

One other thing I would like to know about Prince William Sound is the amount of vegetation covering the rocks at the lower elevations. I gather that the higher parts of the islands are rugged and largely bare, but that there is fairly thick timber on the portions that are low or nearly hilly. Would you say that there is plenty of outcrop at the lower elevations, or is there ample opportunity for vegetation and debris to provide rock concealment?

Sincerely,

Mac

John P. McKee
February 8, 1956

Mr. Blair W. Stewart
Cyprus Mines Corporation
1206 Pacific Mutual Building
523 West Sixth Street
Los Angeles 14, California

Dear Blair:

Enclosed is a Forest Service map of Southeastern Alaska on which has been marked the known outcrops of nickel mineralization, together with known geological references. We agree with your present opinion that Aero Service would probably be in a position to do a satisfactory job more cheaply than would any other established organization.

We have spent considerable time attempting to check on the status of claims in the Copper River drainage as requested in your letter of February 3. We are wondering if you have available a copy of U.S.G.S. Bulletin 947-G covering the copper deposits of the Kotsina-Kuskulana District. This covers field investigations by the Survey conducted in 1943 and may be more up to date than the information you have used for reference purposes. Our findings on the groups of claims you have mentioned follow:

(1) Great Northern Development Company, Copper Mountain, Clear Creek, Kuskulana. This company still owns 33 patented mining claims comprising 1,165 acres covered by Mineral Survey No. 913 and Patent No. 541,252. Their present mailing address is in care of Jones, Walker and Waechter, National Bank of Commerce Building, New Orleans 12, Louisiana. This company has had contact with the Tax Office here in Juneau as late as 1954.

(2) Alaska Consolidated Copper Company. Bulletin 947-G indicates that these properties were operated at the latest date by Mount Wrangell Copper Company on which we can find no records here in Juneau. Alaska Consolidated Copper Company was stricken from the records of the Territorial Auditor for nonpayment of corporation tax in 1922. We do not know how you will be able to contact present owners on these two groups as there is no record in the Tax Office of anyone claiming ownership.

The Jarus group is generally known as the Copper Queen. We can find no Mineral Survey listed on B.L.M. Atlas sheets which correspond with the location of the Copper Queen as indicated in the U.S.G.S. reports. Therefore, we cannot confirm the status of these claims as regard to patent or actual ownership. The Nugget Creek property is covered by Mineral Survey No. 893 on B.L.M. Atlas sheet No. 1156.
(3) Hubbard Elliott Copper Company, Elliott Creek. Apparently the ownership of this large group of claims is divided between two people. Mrs. Bertha M. Hubbard, 5351 Ogden Street, San Diego 5, California, is still living and claims ownership of eight patented claims. Apparently the larger portion of the group of claims is under the control of Carl F. Gould, 2339 41st Street North, Seattle, Washington. Apparently Mrs. Hubbard is in contact with Mr. Gould, who has inherited his holdings through the estate of John Pay.

Orange Hill claims, Nikondra Creek, Nabesna River drainage. These claims are covered by Mineral Survey No. 1414, B.L.M. Atlas sheet No. 1053. You are apparently not aware that Bear Creek Mining Company did some work on this property two years ago and then abandoned the area. Available records of drilling conducted in the 30's do not look very promising, and we wonder if you are aware of the available data on this prospect.

Wiley Prospect, Ptarmigan Creek. These claims are covered by Mineral Survey No. 921, B.L.M. Atlas sheet No. 1053. We can find no record of either the Acme Mine Company or the Simms Company ever having registered with the Territorial Auditor.

(4) Skolai Mining Company. This company has never filed incorporation papers with the Territorial Auditor nor have they declared ownership of any claims with the Tax Department. The group of claims on the west side of the White River near the toe of Russell Glacier are on Wiley Creek, and are covered by Mineral Survey No. 1014, B.L.M. Atlas sheet No. 1059. Another group of claims to the north of Wiley Creek on the middle fork of the White River are covered by Mineral Surveys 920 and 1015, same Atlas sheet.

The card file belonging to the Bureau of Land Management and listing the patentees of all of these groups has been moved to Anchorage. It will be necessary for us to contact Martin Jasper there and have him attempt to obtain the name and address of the patentee in all cases, except No. 1. We will ask Martin to forward any information he is able to obtain directly to you.

Along the general line of your investigation, we would suggest you obtain a copy of U.S.G.S. Bulletin 947-D. The information given in this bulletin should be of general interest in connection with your proposed airborne surveys.

Kindest personal regards.

Sincerely yours,

Phil R. Boldsworth
Commissioner of Mines

cc - Martin W. Jasper
Attached is copy of a letter to Blair Stewart advising him as to our findings on several groups of claims in the subject district.

The BLM card file covering patents on mining claims issued in Alaska has now been moved to Anchorage. From now on, it will be necessary for us to trouble you at that end to search those files to obtain information from time to time. Actually, the Land Office itself will have a record of the patents issued, which will probably be more complete and up to date than is the card index formerly located here in their Juneau office.

In most cases, you will find that the patentee is a foreign or defunct corporation which can no longer be contacted, the actual ownership probably having passed along to various heirs. However, any information you can obtain on those groups listed in the letter to Blair Stewart will be appreciated. Would suggest you forward any information directly to the Los Angeles office with a copy to us.

PRH'cn
February 3, 1956

Mr. Phil R. Holdsworth
Commissioner of Mines
Territory of Alaska
Juneau, Alaska

Dear Phil:

First of all, thank you for referring Sainsbury to us relative to a position. I have written to him in further regards to his plans and to inquire if he would be willing to accept what looks now to be a temporary summer assignment. I remember Sainsbury quite well as I talked to him on several occasions in Juneau in the U.S.G.S. office.

As you know, our Wallace office has been making a study this winter of much of the literature on the mineral deposits of Alaska. One particular area which I think we all agreed merited further exploration is that of the Copper River drainage, including the White River area. This study has lead us to feel that several old properties (worked in the past) merit a closer "look-see" on the ground. The data we have, of course, is strictly geologic and nothing else. We do not know who owns the properties at this time or who the principals of companies which may retain ownership are. I believe you told me that you had considerable such information in your files and I would, therefore, appreciate your having someone in your office run these down for us.

The properties we are interested in are as follows:

1. Great Northern Development Company, Copper Mountain, Clear Creek, Kuskalana.

2. Alaska Consolidated Copper Company - they have two properties, I understand, the Nugget Creek property - Valdez claim, and the Rarus Group, which is situated on the south-side of the Kuskalana River.

3. Hubbard Elliott Copper Company, which has a property on Elliott Creek of some 50 claims. The Orange Hill group of claims.
on Nikonda Creek in the Nabesna River drainage, and the Wiley prospect near the mouth of Ptarmigan Creek where it joins Beaver Creek. I believe some work was done on this property by the Acme Mine Company "Simms Company" during the late 30's.

4. There are also several groups of claims, whose names and ownership we are unable to determine, on the west side of the White River near the toe of Russell Glacier. Near this group are seven claims which have been surveyed for patent and are believed to be under the ownership of the Skolai Mining Company.

We will surely appreciate your giving us whatever information you can on these.

Our plans this summer contemplate further work in Alaska, and particularly we want to determine more about the Tenakee Inlet and Tracy Arm showings. It is quite likely that we will conduct an aerial magnetometric survey of these to further determine the areal extent of the favorable host rocks and structure. I have been talking with Aero Service Corporation of Philadelphia and also got a letter from Donald J. Belcher & Associates, Inc., which I believe they wrote to me at your suggestion. While I do not yet have all the data at hand it appears that Aero Service may be the best for us as they expect to do some other work in the vicinity and our "in" and "out" charges would consequently be shared and therefore be less than normally charged. Further, they have done a lot of this work in the past several years in southeastern Alaska.

Let me know if anything new has come to your attention that you think would be of interest to us.

Kindest regards to all in the office there and to Peggy. I hope that I will see you all in the not too distant future.

Best regards,

Sincerely yours,

[Signature]

Hurl W. Stewart
CYPRUS MINES CORPORATION

BWS/a
Jones, Walker & Wooten
New Orleans, LA.
November 17, 1955

Mr. Ralph Browne
Alaska Research Associates
P. O. Box 846
Anchorage, Alaska

Dear Ralph:

We have your letter of November 8, asking for mining information on several recording districts. Phil turned it over to me for answering. I will take up each recording district in the order in which you mentioned it in your letter.

Kodiak - There is no active mining in this district at present. Prospecting is being done by at least one group of four or five men quite steadily. Other individuals are reportedly prospecting. There have been reports of planned exploration on a copper deposit and a tungsten deposit by a large mining company on Kodiak Island but no confirmation of these reports have been received from the company by this Department.

Kvichak - There is no mining activity or developments in this district that we are aware of.

Haines - One small placer operation only. There are at least three promising copper deposits in this district which are being looked into in varying degrees by various companies. Four prospectors are reported active.

Bristol Bay - No mining here but a very promising mercury deposit near Aleknagik is being developed under DMEA financing by Moneta-Furcupine, Ltd. of Canada. They hope to be in production in the near future.

Bethel - The Goodnews Bay Mining Company and the New York-Alaska Company comprise two large dredging operations in this district. Two small placer operations are also active. A platinum placer drilling project has been under way for two or three seasons. Two prospectors have also been active in this area. A total of about 150 men are employed in this district, seasonally, of course.

Kuskokwim - The DeCoursey-Brevis Company is currently employing about 50 men at their Red Devil mercury property which is being rehabilitated and will be put in production early next year. With their fringe activities, such as purchasing timber from the Natives up and down the river, far more than the 50 men employed directly at the property are benefitted. This Company also plans further exploration at the De Coursey mine. There are two or three small gold placer operations active and three or four mercury prospects being developed in addition to those mentioned above. Probably a total of 75 men are directly employed in this district.
Wade Hampton - Two small placer operations active. Three prospectors. Total of about ten men.

Imoko - This is one of the placer districts that remains fairly active. There are two dredging operations there and ten open cut placer operations. Total of about 55 men employed.

Mt. McKinley - Another active placer camp. There are two dredges and seven non-float operations. A gold quartz development has been under way on a small scale for several seasons. Total employed, about 50 men.

Nulato - Five small placer operations, employing about 15 men in this district.

Hot Springs - Six small placer operations, employing about 18 men.

As for a general statement on the potential developments in the Lower Yukon and Kuskokwim Basins, we can say we definitely expect further developments and more than one producing mine eventually in the mercury belt along the Kuskokwim River. This is an extensive and well mineralized belt and merits systematic large scale prospecting and exploration work. With the present price of mercury and the minimum price guaranteed by the government, it is hard to understand why developments in this district have not moved ahead faster. In addition to that particular area, you no doubt know that the Delta of the Kuskokwim and Yukon areas is considered a favorable structure for oil by some authorities.

I think this about covers the situation. Best regards.

Sincerely,

James A. Williams
Territorial Mining Engineer

JAW'dls
November 15, 1955

Mr. Ivan Bloch
Industrial Consultant
611 Park Building
Portland 5, Oregon

Dear Ivan:

Phil turned your letter of November 7 over to me to answer. We have gone through our files and have come up with a bibliography of reports and publications covering the area you are interested in.

To save typing the numerous USGS publications covering the area, we are sending you a published list of all USGS reports on Alaska and a USGS commodity map which accompanies it. More of these may be obtained from the GS if you wish. We have checked with red pencil the publications in the list which we think you will be interested in for your easy reference. Also enclosed is a list of USGS reports of investigations on properties within the area concerned, and another list of reports in our TIM files.

The TIM reports are not ordinarily available for distribution but we can make copies for you of reports that you may consider particularly interesting or valuable for the purpose you wish. Most of these TIM reports we list here are available also at our Anchorage office for consultation and study. In compiling the list of TIM reports, we have left out all reference to gold properties since they are of so little importance now or in the near future.

We hope that this is what you want and will serve your purpose. If we can help further, please advise.

Sincerely,

James A. Williams
Territorial Mining Engineer

JAN'dls
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3784  Moose Creek District of Matanuska Coal Fields
3885  Exploration of Red Mountain Chromite Deposits
4356  Investigation of Knik Valley Chromite Deposits
4520  Investigation of Coal Deposits in South Central Alaska and the Kenai Peninsula
4828  Investigation of the Kasna Creek Copper Prospect, Lake Kontrashibuna, Lake Clark Region
4838  Bituminous Coal Deposits in the Vicinity of Eaka, Matanuska Valley Coal Field
4890  Investigation of the Millett Copper Deposit, Iliamna Lake
4932  Preliminary Report: Nonmetallic Deposits Accessible to the Alaska Railroad as Possible Sources of Raw Materials for the Construction Industry.
November 8, 1955

Mr. Phil R. Holdsworth
Commissioner
Territorial Department of Mines
Juneau, Alaska

Dear Phil:

We have been retained to prepare an economic exhibit for submission to Civil Aeronautics Board for use in the Intra-Alaska Air Services Case. The region with which we are most concerned is that situated north and west of Cook Inlet.

I note in your last biennial report that you covered mining activities by recording districts. If it is at all possible, I would appreciate receiving a brief summation of mining activities, including exploration and development, in the following recording districts: Kodiak, Kvichak, Iliamna, Bristol Bay, Bethel, Kuskokwim, Wade Hampton, Innoko, Mt. McKinley, Nulato and Hot Springs. Any estimate you may be able to give as to the number of persons employed in the mining industry in those districts also would be helpful.

I also would appreciate any brief, general statement you might be able to make regarding potential development of mineral resources in the Kuskokwim and Lower Yukon river basins.

With warm, personal regards, I am

Sincerely yours,

Ralph Browne

P. O. Box 846, Anchorage, Alaska
November 7, 1955

Mr. Phil Holdsworth
Commissioner
Territorial Department of Mines
Juneau, Alaska

Dear Phil:

This will confirm our pleasant discussions in Fairbanks during the past few days.

As you know, we have been retained by the Chugach Electric Association, Inc., The City of Anchorage, and the Anchorage Chamber of Commerce on a joint project of investigations of industrial development of the Greater Anchorage and Kenai Peninsula areas.

It would be of tremendous assistance if we could obtain from your office a bibliography of publications as well as reports and memoranda dealing with the geology and mineral resources of the Kenai Peninsula; the immediate area on Cook Inlet to the north of the Peninsula; the base of the Aleutian Peninsula; Kodiak, the Matanuska Valley extending as far as the divide to the Copper River drainage; and of the Susitna basin as far as Willow. If desirable, I can define the area more precisely. Information on the Kenai Peninsula area is desired as rapidly as possible.

Kindly advise as to when we might expect the information on the above items, or what we might do to facilitate your assembling the data.

With many thanks in advance,

Sincerely yours,

Ivan Bloch

P.S. I am sending Governor Heintzeleman a copy of this letter for his information.
August 9, 1955

Mr. Arthur F. Daily,
488 Fairbanks Avenue,
Oakland, California.

Dear Art:

Ref: Iliamna Region
Ref: Yours of Aug. 3rd

It was a real pleasure to receive your letter the following day which was read with a great deal of interest. I had assumed that you were spending a great deal more time on the Brazilian venture than expected, and regret the circumstances which made that necessary. You certainly had a major problem to refloat the dredge and overcome the numerous difficulties and operational problems encountered there, and it is hoped that the company will now be able to realize a reasonable percentage of dredge operating time.

The "micron" sizes of appreciable amount of the gold at the Dragagoma property is interesting, and certainly will be a problem to solve.

The younger generation has a habit of growing rapidly, and the period is all too short as they come along so fast that the first thing we know we are dated as "oldsters". I have no doubt you and Mrs. Daily are impatiently waiting the arrival of the first grandchild.

Our young 46-incher will be 5 next month - and that period also has slipped by too rapidly.

Mr. Pfallcott's letter, of July 28th date, was received the same date as yours - which was day I returned from field trip. On seeing the Miami Copper Co. letterhead I was curious as to what might be the nature of their inquiry; that was explained on reading your letter first. It is always surprising to see the various channels through which information concerning a mining property travels.

Mr. Pfallcott advised that J. L. McCullah, Grand Junction, Colo., had left a copy of the report I wrote 2 years ago on the old McNeil copper property on Paint River, Iliamna district. Mr. McCullah came into our office with E. R. Sargent, one of 3 present owners of the property, and a son-in-law of McNeil who discovered the property in the late 'teens or early '20s, sometime in June.

He asked for some additional information which I will send on to him. It will be a matter of interest to you and to Mr. Pfallcott to know
A. F. Daily
re Iliamna Region Cu

that the Northwestern Mining Department of the A. S. & R. are planning an investigation of the McNeil property around August 15th to 20th; I believe they made or took an option on it in April or June when Gavin Dirom (A&S's Vancouver, B. C., resident engineer) was here. In any event, there was an understanding that Dirom would check the property this month unless his field schedule proved too "tight" to make the trip.

Mr. Sargent advised me the past winter or this spring that during their prospecting in that general area last year they located two other copper occurrences which he believed may prove of interest. These are located some miles from the McNeil prospect. They are supposed to do some stripping or trenching on these new showings this season in effort to determine widths and get some idea of possible lateral extent.

The Paint River area appealed to me as being one of special interest for a large company of companies to look into.

Iliamna Bay area

A local group known as the Grubstakers Inc. have several prospecting parties in the field. This outfit is composed of 120-130 Federal employees (CAA, Postal, Weather Bureau, etc) who have been kicking-in $10.00/month into a pot since last December.

One of the prospectors they sent out went down to Iliamna Bay area to look into a copper occurrence he had noted in the '20s. Some of the samples sent in show encouraging copper values. They speak of mineralized widths up to 20 feet and more, but they are not yet certain as to actual strike and dip. They have requested an examination by our office (Dept.) and I am leaving for there tomorrow or possibly a week.

The showings are located a short distance off the road that connects Iliamna Bay (Cook Inlet side) to Piles Bay at east end. The claims are about 1/2 mile from tidewater.

One of the officers of the company was in yesterday and asked us to contact a responsible company (or companies), who might be interested in examining the area. In view of your projected trip up here for purpose of looking over copper & other properties, I would suggest you contact -

J. Leo Connors
1032 "H" Street. Phone 46335
or office phone 26001 Ext. 213

or contact

G. O. Kempton
1020 "H" Street. Phone 46331
or office phone 26001 Ext. 213

That is office phone of the CAA with whom both are employed. They are good men and we are hopeful they may have something of interest to show.
A. F. Daily
Re Iliamna Bay Region, etc

There is another fellow whom I believe it would be well worth your while to look up. His name is -

George Fennimore
Box 1444, Anchorage

George lives in the Mt. View section of town on Price Street. Don't recall his house address, and it might be a bit of trouble to find. Believe it is midway of the 2nd (or 3rd) block on Price Street north from the Palmer Hiway, on right side of the street. Price Street intersects the Hiway, so going out of town you would turn to the left when you reach it.

We consider Fennimore to be a very competent prospector, and one who has a great fund of information on mineral occurrences in various regions of the Territory. He is quite a friend of George Gates, who is USGS geologist in charge of all that Dept's Alaska activities.

You may recall my writing you couple years ago while you were out at Guam concerning the various minerals occurring in certain areas of the terraced beach deposits in Yeagata district. At that time I was casting around for support to do some exploration in there for ilmenite plus the placer gold, and plus several other possible minerals of economic value. Needless to say nothing came of my efforts so took on the present job.

Two years ago Fennimore and couple associates were smelling around for radioactive stuff went down to that area, found it in appreciable amounts, did some test work and turned it over to Anaconda. Later did little test-pitting, spent a year researching in the lab (so they said), and eventually dropped it last late winter. Harry Townsend (who died two months ago) was the Anaconda geologist who liked it and got the Co. to option it. Apparently Harry was disappointed at their lack of interest and on their dropping it, he called it to Chuck Herbert's attention. Chuck took it on and is presumably drilling down there now. I would suggest you develop any information George F. has and keep if in mind; it could possibly prove of interest to you - especially if Chuck can't "hack it."

I am looking forward to seeing you again on your planned trip in near future. I mentioned you so often to my wife that she is also looking forward to meeting you. Should I be out of town when you arrive give her a call at Phone No. 65575 - we finally got a phone after 8 or 9 months wait.

With kind personal regards to Mrs. Daily, yourself and family,

Sincerely yours,
Martin Jasper
Associate Mining Engineer
Bill Bittner and a Capt. Riddell was in this AM. Wanted to "borrow" some of our U3O8 specimen to take out in field, but turned his request. States he has found a "hot" area and wants to check the stuff in the field, so they "could trace the trend of mineralization" to guide them in their staking of claims. Advised him the best deal was to take sample, remove them from the area and check for radioactivity; better yet, to bring the samples in here for analysis. Don't think he was very happy re loan of specimen. Gave no idea of where his "find" was located.

M J

DEPARTMENT OF MINES
RECEIVED
JUN 1 0 1955
JUNEAU, ALASKA
Mr. James A. Williams,
Associate Mining Engineer,
Department of Mines,
Box 1391,
Juneau, Alaska.

Dear Jim: Prince William Sound District, Alaska

Thank you for your letter of 24th instant and especially the complete list of U.S.G.S. and U.S.B.M. references to this area. This list will be of great help to us and your efforts in this regard are greatly appreciated.

I am very doubtful that we will be able to spend much time in this area this season but am hopeful that we can make a trip or so at least and probably get the office phase well advanced so that we can plan in advance for next season.

Yours sincerely,

G. A. Dirom

GAD/mg
May 24, 1955

Mr. Gavin A. Dirom
American Smelting & Refining Company
425 Birks Building
718 Granville Street
Vancouver 2, B. C.

Dear Gavin:

Enclosed, finally, is the list of USGS references to copper deposits in Prince William Sound that you requested April 15. Phil has been up north for the last month, and I have been kept pretty busy with visitors and correspondence, so that I have not gotten this out for you as rapidly as I had hoped. Hope it hasn't held you up.

As stated at the top of the list, it is really complete, but you will find that many of the bulletins showing just a page or two merely give statistical production figures and information which you may or may not be interested in. This is true of the USGS Bulletins listed also.

Then, of course, we have reports in our files on some of the individual properties by past TDRI and private engineers, but not nearly as many as we should have in proportion to the importance (potential) of the region. When and if you want further information on any individual properties, shoot us a line and we'll do our best to come up with it.

I am looking forward to seeing you again.

Sincerely,

James A. Williams
Associate Mining Engineer

JM: jc
encl.
### COMPLETE LIST OF U.S. GEOLOGICAL SURVEY REFERENCES TO PRINCE WILLIAM SOUND COPPER DEPOSITS

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USBM Information Circular No. 7379, page 33
AIR MAIL

Mr. Phil R. Holdsworth,
Commissioner of Mines,
Department of Mines,
Box 1391,
Juneau, Alaska.

Dear Phil:

I have given further thought to the copper deposits on Prince William Sound and have glanced through U.S.G.S. Bulletin 989-E to get some idea of the scope of an office research project on this district. I have also checked our Vancouver office files and our index of our New York office files.

Inasmuch as we are getting into the active field season and both Ceci Coveney and I will be spending more time in the field than in the office, I am wondering if your office could help us out re Prince William Sound by sending us the information on your Index Cards on copper occurrences in this area. Miss Greenaway could then compile the U.S.G.S. data for us and this information would provide us with a complete background to which we could add our own data. Most of the latter will have to be requested from our New York office and we would like to be more or less selective in our requests.

There is no urgency in this matter as far as we are concerned since we are involved in numerous other programs and examinations. However, since I am lined up to make examinations to Kodiak Island around June 1st and Iliamna Lake around August 1st, I could step off in Prince William Sound if anything seemed to warrant it. On both trips I am planning to make a brief stop-over at Juneau and could then add any information you made available to me from your TDM files.

Sincerely yours,

[Signature]

Department of Mines
RECEIVED
G. A. Dirom
APR 15 1955
JUNEAU, ALASKA
Mr. S. K. Garrett, Geologist, 
Cerro Cordaro Copper & Zinc Company, 
209 Tabor Building, 
Wallace, Idaho.

Dear Tub:

Your letter of March 10th was received a few days later and read with a good deal of interest. I regretted receiving your wire - as well as one from Blair - advising you would not be able to attend our AIME Banquet.

Through Phil Holdsworth we were fortunate in getting Clare E. White, Gen. Mgr., United Keno Hill Mines Ltd., Mayo, Y. T., for the speaker, and the event was held March 31st. Mr. White's address made the program by far the most interesting they have had here. There were 300 present. It was a relief to get that affair off the calendar. (That was a job you and Blair could not charge. I passed on to Olga).

The maps and reports you forwarded were received in good shape. I trust that you and Blair will be able to take a look at the Weeadsilk Inland area this coming season. Phil has indicated that it can be arranged for me to accompany you if desired.

Spirit Mt. Nickel

I understand that Halverson & Associates turned their ground over to Frank C. Neill, who has formed a company in Seattle to undertake exploration of the area. Neil McMillan could have preferred for your company to tackle the job, C. Neill has (or is going to) applied for a DMEA loan. Don't know what progress he is making.

Mt. Nelson Pb-Zn Prospect

Someone (have forgotten who) recently advised me that Morning had turned down your offer, and that he had been in Anchorage several weeks ago trying to raise some money. I regret that if it is true.

Radovan Cu Prospect, Chitina River Region

Martin Radovan has optioned his property in the McCarthy district to a Kennecott subsidiary (Bear Creek Mining Co., Spokane). It is reported they have agreed to spend $200,000 in exploration on the property.

McLaren River Copper

Last winter's report that Al Ghezzi had walked away from that show is incorrect, as he plans to resume work there soon a weather conditions permit. I still think that it might be worthwhile to look into that venture as I doubt that Al can swing it alone.
Kodiak Island & Tianna Regions

The tungsten and copper shows mentioned to you last winter are scheduled to be given the once over this season. The owners have contacted one of the major companies. Both are interesting areas would liked to have seen you examine.

Cinnabar

Should you be interested in quicksilver this season there is one area in the Kuskokwin region that I believe is worth investigating. A new discovery this winter in a much more accessible area might be available - the locators have not made up their mind about it to date.

Little Susitna Copper

I may have mentioned before that the A.S. & I have decided they were not interested in this occurrence. Don't know whether the locators have any plans in mind for it or not.

Uranium

Publicity is apt to develop a real "rush" of discoveries this year although there has been nothing brought to our attention to date that seems to have any earmarks.

Cascade Copper Shows

Trust that you will shortly get in touch with Knudson and find one of these occurrences of interest.

It looks as though we will be busier this year than last which is the way we like it.

Looking forward to seeing you and Blair in this region again this season, Olga joins in sending best wishes and regards.

Sincerely yours,

Martin Jasper
Associate Mining Engineer

P.S. It is encouraging to hear that a responsible company such as yours is interested in gold properties. Hope the Montana project measures up to the required objective. Let's hear from you.
Mr. S. K. Garrett, Geologist,
Coramodo Copper & Zine Company, JUNEAU, ALASKA.
209 Tabor Building,
Wallace, Idaho.

Dear Tub:

I was pleased to receive yours of February 11th last week and will knock off a few notes on the several items you asked about.

I was pleased to hear that you had written Brede Knudsen, and have in mind getting together with him to discuss various areas on the Cascades west slopes.

RR Horseshoe Island

The possibility of your checking over that area is interesting and I doubt Phil would arrange for accompanying you. A visit north by you and Blair in early spring would be especially timely if it could be arranged for late March or first of April, as local AME section are putting on their Annual Banquet in that period (date not yet set) which would like to have both of you attend - more about the AME deal later.

Nimana Copper Districts

The owners have been in correspondence with another company on this, although there has not as yet been any definite understanding between them except that it is planned to take a look at it. That is an area worth looking into.

Kuskokwim River Region BeS Properties

The two I looked at last summer were the Willis property, 4 miles down the river below the Red Devil Mine (DeCourcy Mt. Min. Co.). The Brede & White interests of Toronto have taken over the latter company's, and hold an option recently taken on the Willis prospect. (These are both a few miles below Slatemute).

The other was the old Kolmakoff prospect, 20 miles upstream and on a bluff along side the Kuskokwim river. The showings there are presently of no particular interest except possibly for a couple good miners.

Other BeS Properties

The showings on Karah Mt., approximately 20-25 miles northeast from Dillingham as said to be of exceptional interest. Have not been down there to examine it. The property is owned by Waskiay, Wrenn, and a third partner whose name don't recall at the moment. Their partnership is known as Red Top Mining Co., Dillingham. The Cordero company (Sm Cil & another) made offer for it, but would not agree to a persistent development program so no deal was made. Believe this would be well worth while digging into.
S. L. Garrett
Be Various

February 25, 1955

Another is an area at head of the Ekl river, which drains into the Knikolus river near Bethel, not far from Bristol Bay. It presently is accessible only by plane or on the boat, but reportedly has good terrain to traverse. I met a fellow who was in the area prospecting for gold quartz and placers when I was at the Kolsakof prospect. He reported that he found a number of high grade cutcrops and large "float" along a mile or more belt. Cinnabar there is associated with realgar (at Bad Devil & Willis properties it is associated with stantite). The prospector states he is not particularly interested in HgS, but on questioning him he said he would be willing to show a competent company the area for a small consideration. No ground has been staked in this area for many years.

A third prospect which is on Cock Inlet and the easiest of all to get at is a recent (this year) discovery. The locutor reported he had found a 1/4 ft width with good mineralization across it. He has requested I make an examination of it with objective of going after a DMHA loan. So far as I now know I will probably take a look-see around first of April.

Chromite

The only operator in that area (shipped 5000 tons this fall, and anticipates shipping 6000 to 10000 tons this year) is looking for help from a good company. The property is on Skidoe Rd. Mt. some 12-15 miles NE of Seldovia. They are an excellent private company. There is another outfit - strictly a shoe-string one - who have very interesting prospects. My thought with regard to that area is that there is a good chance of consolidating all the chromite properties in that region. I consider it something that would be worth your while looking into - if chromite has any attraction.

Mt. Nelson Ph-6

& I

Bob Saunders did not get into that area last fall, but believe he is tentatively planning on our doing so this coming season. I have not heard whether your company completed a deal for the property thru Richardson or not.

Spirit Mt. Nickel

Understand that Andrew Halvorson has let an old friend, Jack O'Meill, take a crack at it. Jack thinks, apparently he can promote it, but am personally doubtful. Have not heard from either Halvorson or Minnisand.

Uranium

A Richard Alyward recorded 48 claims Monday of this week. Location is on rail belt between here and Seward - 10 miles or so SW of Portage. Have no information on what he thinks he has found.

The above are the principal things of possible interest that I have in mind at the moment.
Referring to my AIME Annual Banquet reference:

The local Section were not satisfied with my efforts so over my objections they assigned me into the job of Chairman - an extra-curricular job that is taking time away from report writing again this winter.

Locating a principal speaker is the problem. I have just finished writing an invitation to Blair Stewart to do us that honor. If Blair is not available would you be kind enough (and have the compassion) to accept the invitation to be our bright shining-star of the evening with a 30 minute informal address? They have had 225 attending at each of the last two affairs composed of a good cross-section of mining operators and those interested and looking forward to development of the mineral resources of the Territory. I want to make this the best one yet (always try to go one better than the Jones').

Tentative dates, subject to convenient of the speaker, are March 25th or 26th, and April 1st or 2nd; April 8th or 9th could also be arranged.

I have to search for a speaker whose professional, personal, and/or employers interests would justify a trip here at the chosen date and at their own expense (not much to ask Mr. is it???).

Desirable and timely subject would deal with uranium and/or base metal exploration, etc.

Let me know by wire or receipt of this whether you would accept the invitation if Blair is not available, and I will set down and compose a formal invitation to you. I am on the "hot-spot" and most sincerely hope you can take me off by making yourself available.

I expect a number of outside geologists and engineers to attend.

With kind personal regards from Olga, Pat, and myself,

Sincerely yours,

Martin Jasper

cc: Blair Stewart
February 11, 1955

Mr. A. O. Hall, Exploration Division,  
American Smelting & Refining Company,  
Wallace, Idaho.

Dear Art:

I was glad to receive your letter of January 13th. Your transfer to the Wallace office with added duties and larger territory to cover adds up to a promotion in my mind, and I congratulate you.

A letter was received from Mr. Dirom a few days after yours and have replied as per enclosed copy this evening.

As noted in reply to him we are pleased to learn that the scheelite discoveries and possibly several other mineral occurrences on Kodiak Island are of interest and that there is the possibility that one or both of HII investigate area, as well as E. E. Sargent and associates copper prospects in the Piirma region this year. Your tentative plans will, of course, not be publicized by us.

You will be able to discuss both of above areas with the owners should you and/or Mr. Dirom be here for the AIME Banquet in March. It will be a real pleasure to have both of you attend if possible to do so.

Date of the Banquet is not definitely set as yet.

There is nothing new at the moment to call your attention to, but there is a possibly or two which may develop by next month.

With kind personal regards from Olga and myself,

Sincerely yours,

[Signature]

Martin Jasper  
Associate Mining Engineer

CC: PRH
February 11, 1955

To Mr. G. A. Dirom, Resident Manager,
American Smelting & Refining Co.,
425 Richards Building,
718 Granville Street,
Vancouver 2, B. C.

Dear Mr. Dirom:

REF: Your January 21, 1955 letter

Thanks for your above noted letter.

We are pleased to learn that tungsten occurrences briefly described in my letter of January 11th may result in your or Mr. Hall's examination this year.

These showings are on Radiak Island rather than Uganik Island; the prospect visited on the latter is a pyrite show with a small copper content.

Ten days ago Geo. H. Cornelius phoned from Kodiak; George is one of the scheelite discoverers and his call was an inquiry regarding whether I had written Mr. Hall concerning the tungsten show as they had requested me to do. He was advised that either you or Mr. Hall were tentatively planning a pre-season visit here in March, in which event you would be interested in meeting and discussing the prospect with a spokesman of their group. Mr. Cornelius stated one of their group would be very glad to do so.

It was also very interesting to note that one of you are also tentatively planning to investigate the copper occurrences in the Paint river area of the Hilaarea region. I have not seen Mr. E. E. Sargent since you wrote him - you will also have the opportunity to discuss that property with him next month.

I have not as yet set a date for our ADME Banquet as a speaker has not been definitely assured to date. As a result the date has been tentatively set back to March 11th or 18th. It will be a real pleasure to have you or Art or both of you here to attend if your schedules permit.

As soon as the date is definitely set I will advise you.

Very truly yours,

[Signature]

Martin Jasper
Associate Mining Engineer

cc: ACH
cc: FRH
Mr. A. O. Hall, Res. Engineer,  
American Smelting & Refining Co.,  
Northwestern Mining Department,  
108 Birks Building,  
718 Granville Street,  
Vancouver, B. C.

Dear Art:

I was pleased to receive your letter of Nov. 26th although the delay in answering might not indicate that to be the case. I can appreciate how much the season kept you occupied, for this northern stuff does not carry the advantages for field work that goes with warmer climates.

It was interesting to get your views of the Little Susitna- Moose creek copper occurrence. I can see where use of the "whirly-birds" has many things in its favor, and most certainly gives an opportunity to study structural conditions and to stop off almost anywhere for the "close-up" views where desirable. It was disappointing, of course, that conclusions were such as to discourage undertaking an exploration program in that area.

Hiansa District

It was also interesting to note your reference to the Hiansa district copper area as being one in which a Granby official mentioned his company having been interested in years ago and thought it deserved further attention. This brings to mind that several weeks ago E. E. Sargent, who lives in Spokane, mentioned (as I recall) that he had been correspondence with you regarding his and associates copper prospects in the Paint River area 9 hour south of Hiansa. Sargent also stated that you might be interested in the group of claims which we investigated in 1953. This group, known as the old Mo Mall property (Mo Mall was Sargent's father-in-law), may be the one that the Granby official had reference to, as one of the larger copper operators were interested in it about 30 years ago.

Sargent reported that he and associates had located some other copper showings that old correspondence of Mo Mall referred to. From the brief glimpse we had of the area (region) from the air, and what we saw on the ground, I believe it would be well worth your while to spend some time down there this coming season.

Kodiak Island Region

During a couple of weeks in that region last Oct-Nov looked over an old prospect that Don Petoach & Associates relocated last year. This is located on NE end of Unglac Island, which in turn lies ¾ mile or so off the NE shore of Kodiak Island. The "olddtimer" by late 1905 or '06 had completed 88 feet of an adit level, which was collared 15 feet or so in cliff face above high-tide level and only a few feet from the beach line. Half of that distance (40 feet) was a cross-cut to a shear zone, at least 25 feet in width although its limits were not reached. Intersecting 4 or 5 ft of fairly solid pyrite with little chalcopyrite, it was drifted upon for 20 feet or so (along HW
A. O. Hall
Re Various

January 11, 1953

side) and then swung at a diagonal toward FW side of sheared zone. At face of adit 15" of more or less solid-tipped material was exposed but was not continued far enough to determine its full width. Three vertical prospect shafts were put down to depths of 15 feet or more and drifting carried on for undetermined distance on the sub-level or levels. Being filled with water was not able to check them.

A number of samples were taken on the adit level, but their copper content was quite low. There apparently had not been any particular effort to trace the sheared zone up the slope of the relatively low, rounded mountains by stripping - at least saw no evidence of it and the recent locators said they had not as yet located open-cuts on that side.

Sitkalidak Island

Don Petacchi advised that he had been in communication with you regarding Sitkalidak Island copper claims he and associates have held and done some work upon. Our department has investigated that area - the last time by myself in 1953.

The copper occurrences are within a regional fault zone through Sitkalidak Island (this latter a mile off the SE coast of Kodiak Island) and continues NE to and probably beyond northeast end of Kodiak Island. Primary purpose of my investigation was to check work done in the year since Bob Saunders had reported upon the property, and to assist the owners in making out a DMEA application for underground exploration. As the copper mineralisation (chalcopyrite) was dispersed over a couple hundred feet of sediments in a very wide sheared zone associated with the regional fault, with only a few hundred feet of the sediments remaining overlying the diorite, it was my recommendation the DMEA application should be confined to a diamond drilling program. The latter application was made, but the Juneau U.S.G.S & U.S.B.M field team which pass upon DMEA applications turned it down.

During the past year the prospectors advise me that they have located some promising bornite showing a mile and a half to two miles to the SW of the shoveling we have examined. They wanted me to make trip there before returning here in November, but because of the short days and lack of shelter at the bornite occurrence, advised them it would be better to wait until April or May.

I believe the Sitkalidak Island region would be of interest for you to investigate.

Referring again to Unganik Island the prospect I examined last November lies along another very strong regional fault, whose course is along northwest side of Kodiak and Afognak Islands and parallels the fault along southeast side of Kodiak Island.

This group of prospectors for a number of been more or less systematically covering and cataloging numerous mineral occurrences. They spoke of several mineral occurrences, having earmarks of very wide zones, which I have encouraged them checking and sampling this winter. (To me it is an never ending surprise to find that region has a relatively mild climate and short winters). We are giving them every encouragement and assistance possible, and it is believed they will turn up something worthwhile. I plan to return there in April or May to examine several of the areas.
Tungsten - Kodiak Is.

Principal reason for last Oct-Nov trip to the island was to check tungsten discoveries which some members of the same group have made. They have found fairly abundant"float" along a sedimentary belt for a 3 mile length (a business man of Kodiak reported to me he had found "float" 12 to 15 miles beyond the above noted area), and across 3/4 to 1 mile width. Its source has been traced to a number of intercalated La beds in the old metamorphosed sediments of that region.

At time of my visit we traced some float to one La bed, checked an outcrop of another, and since my return they have sent me a sample from another La bed higher up and on opposite side of the deeply entrenched stream of the "V" shaped valley which I pointed out to them late afternoon of last day on the property. These 3 samples carried 6.28%, 1.4%, and 3.5% (as I recall); their widths were approx 36", 47", and 27", although full widths were not exposed.

Laid out a program for them to follow in tracing out and sampling full widths of the scheelite bearing La beds (whose widths probably will be within limits of 3 to 10 feet), and promised to return in the spring to thoroughly sample the sections exposed - natural outcrops or by trenching.

They have asked us to assist them in contacting competent mining interests.

I do not know whether your company would be interested in tungsten prospects or not, but from what I could see during the 3 days in the area it appears to be one that warrants a "look-see". Let us know your attitude in this.

I noted your plan (or hope) to make a visit to Anchorage prior to the field season. Would that by chance be early in March?

Reason for asking is that our local AME section (of which they elected me chairman for this year) are having their Annual Banquet, tentatively set for March 4 or 5, or March 11 or 12. We throw quite a "whing-ding" for benefit of those in the mining industry as well as those friendly to it. Last year had 225 - this year will equal or exceed that number. Phil Holdsworth is making the effort to obtain Sheldon Wimpfin, AEC's Grand Junction, Colorado, regional manager, for our speaker.

Would you be available in case Wimpfin is unable to accept? Let me know soon.

With kind personal regards and best wishes for this still New Year from Olga and myself,

Sincerely yours,

Martin Jasper
Associate Mining Engineer

Commissioner of Mines
January 3, 1955

Mr. Blair Stewart, Vice-Pros.,
Cyprus Mines Corporation,
1206 Pacific Mutual Building,
523 West 6th Street,
Los Angeles 14, Calif.

Dear Blair:

RE: Spirit Mt. Nl

I have been wondering whether you went ahead and made an agreement
with Neil Finnigan and Andrew Halverson. This interest was revived by a
telephone call day before yesterday asking what my impressions were after
taking the quick "lock-see" last July. Aided the man calling that I came
away with opinion that the area definitely warranted investigation by com-
petent interests, although the conditions surrounding the the Ni-Cu outcrop
on the left limits of Canyon creek were not encouraging.

It would appear from the inquiry that Halverson was being approach-
ed and discussions had taken place in Seattle on some sort of a deal, and
the individual is the old friend that Halverson mentioned to us as wanting
to take a crack at the area. He, himself, would have to obtain very strong
financial support from others, although he probably would be able to take
care of a limited exploration program with his own means.

Passing this on for your own information.

Huskokwia Cinnabar Properties

Brown & White interests of Toronto, whom you may know, have just
about completed all details to take over control of the De Coursey Mt. Min.
Co. properties in the Siletzute area, as well as the Old Willis property
4 miles down river from the Red Devil Mine. The reduction plant burned
down in late October and was a complete loss; De Coursey company did not
have the means to replace as well as enlarge the plant and scope of their
operation.

Brown & White, securities firm of Toronto with a property or two
they control and have been operating in Ontario, plan to raise the greater (?)
part of new capital required from the John Q. Public — I have been told they
are one of fairly responsible outfits. They advised De Coursey stockholders
they plan and expect to spend a million dollars to rebuild the plant for much
larger tonnage production, and during the rebuilding period carry out a long
needed development program. I spent a week on the Willis property examining
numerous new (1954) exposures made with a dozer; has earmarks of a possible
low-grade deposit. Would like to have seen your company interested in that
region.
Scheelite, Kodiak Is.

I may have written you concerning my investigating a recently discovered scheelite zone last Oct.-Nov. on Kodiak Is., 10 miles from town of Kodiak and only a few miles from coast.

Scheelite occurs in the intercalated limestone beds - from 2 to 10 feet in thickness - of the sedimentary series of that region. "Float" has been found (fairly abundantly) by the prospecting group along this belt (at intervals) for possibly 20 miles. At time of my visit I "cruised" along the belt for 2 to 3 miles. The prospectors - a group composed largely of younger, self-trained, week-end & holiday vacationists - and locators, have much to learn but are the eager-beaver type one likes to give every possible assistance to. One of the group is an elder fellow who has been prospecting off and on for many years.

They had assumed the "float" to originate from a system of rather uniformly spaced (at 150 to 200 yard intervals) strong cross-fracturing a pattern, at right angles to strike of sedimentary formation, and located their claims to cover the steep ravines which follow those "breaks". They had found some scheelite in the Le bands, but considered the cross-fractures to be the more important.

While their surface "sifting" had been negligible, it was apparent (?) to me that the intercalated Le beds were probably the source of greater interest and the ones to concentrate their work upon. The mineralization controls probably are the cross-fracture system.

Looking north across the deeply incised east-west ravine - a major fault (normal) - several similar but wider iron-stained Le measures outcrop on the steep slope 500 feet or more above the ridge crest on south side of ravine. They advised they had found good "float" in ravines at base of north slope. It was recommended they that they check these formations as next order of their prospecting (after they reselected their 18 or 20 claims along strike of these formations in which their discoveries were made). Several weeks after my return here, a sample was sent to us here, with the note that it was taken at base on a 10 foot Le bed, across 27" of it, reporting the remainder could not readily be reached. This sample went 3.46% WO3. A little snowfall of the steep slope is said to have made the going hazardous, and further prospecting will wait till April.

As they had not opened up any of the limestone beds on south side of ravine did not have the time to wait for them to do so in order that they could be properly sampled. As result, sampling was limited to calcareous measures in the ravines (of the cross-fractures) to prove their interesting "float" did not originate in them. Exceptions to this was one sample taken as a XRF channel sample across a 35" wide Le band on rim of a ravine which went 1.75% WO3. The None of other samples I took in various ravines carried appreciable values.

After two days of covering the ravines, convinced them they were on wrong track. At tail end of 3rd day ran onto some fairly large "float" and had no trouble tracing to its source, which was a Le bed not previously found or encountered on its strike by them.
Width of this outcrop was undetermined. Sampled the exposed 42" which went 0.28% WO3.

Scheelite mineralization in "float" as well as in the few points where it was found in place, occurs as films along fractures and fairly small crystals thru the Le.

Associated with it is fairly fine grained sparsely disseminated FeAsS2, CuFeS2, and FeS2. These sulfides - the only ones noted - also occur in fine irregular veins, and estimate the 3 of them to amount to only 1/2 -1/3 total.

In recent letter from leader of the prospecting group (Dec. 29th) they have asked us to make contacts with a responsible company, and determine whether they would be interested in taking look at the area.

Should your company be "receptive" to tungsten deposits, I believe this area would be well worth your while to investigate this spring; the occurrence of "float" along strike of the sedimentary series for the several miles I traversed, plus across a width of around a mile, and the finding of "float" by another prospector to whom I talked 15 miles or more distant, suggests concentrations of scheelite of economic importance have a fair chance of being found. The area is relatively easy to traverse by foot or horseback (I shied away from possibility of getting "saddle sores"), recent glaciation has exposed bedrock over great deal of the area and the glacial till forms only a shallow mantle.

Climate is mild - similar to Vancouver, B. C., strange at it may seem. No timber but heavy underbrush (including devil's club) at lower elevations.

I am tentatively planning to spend a week or so there in April or early May. Let me know if you are interested, and whether you and/or Tub could join me.

Mt. Ealson Pb-Zn

As to the scoop on that situation (it would not be publicized. Regretted that you found it necessary to negotiate thru "free loader" Richardson).

Olga joins in sending best wishes to you and family. Pat has grown so much he may be able to take care of half my small pack next season.

Sincerely yours,

Martin Jagger

cc: S. Z. Garrett
    P. R. Hallsworth

W. C. Blair & Tut: Kodick In. is good kodachrome country. Fair amount of Kodick bear for "local color".
Mr. Blair Stewart,
Cyprus Mines Corporation,
1306 Pacific Mutual Building,
523 West Sixth Avenue,
Los Angeles 14, California.

Dear Blair & Tub:

As a follow up on one of your recent letters, I made trip over
to Copper River valley, and while there took time to go into Chitina to con-
tact Neil and determine whether he had returned to Spirit Mountain area as
well as to see what his reactions might be to your suggested offer.

Spent a half hour or so with him, and found he had not been able
to get back over there due to lack of funds - hence reason for not receiv-
ing samples for assay at the office.

Discussed your proposal (tentative) to take option on those
claims on basis of doing assessment work without partners for specific
development work for next year or two. Neil stated he was quite anxious
to make such an arrangement with you, as he considered you and Tub to be
the best and most competent men he had ever met, and felt he could expect fair treat-
ment at all times. (His praise and commendation would make both of you blush).

Neil acknowledged hearing from you and was going to write, but
knowing the effort required by some of the oldtimers to get off a letter, it
will probably be some time before he does so. On assuring him I would write
and advise you of his agreement he was quite pleased (and relieved).

Halvorson also promised to write you - that is, he said when he
arrived in Seattle, his daughter would do so for him. Possibly you have heard
from him by now, and I trust that he advised that his "loose" oral agreement
with Jack O'Neill was no longer in effect, and that you complete an agreement
with them.

RE Mt. Adelson

I have heard nothing further from Bob Saunders since my last advice
to you. Apparently Bob has not been able to contact Werning and date for our
examination is still unsettled. It will have to be done in next week or 10
days or else wait till next spring. Trust that in the meantime you have been
able to negotiate the desired agreement with Mr. Richardson.

RE Copper prospects, Saint River area, Atlin district, Alaska Peninsula

This is an area I believe mentioned to you as one worth your
attention and investigation. I spent some time there last year.
Mr. Hamersley, one of 4 partners in the prospect Jim Williams and I examined in that area in 1953, left here for Los Angeles last week to spend the winter. I gave Bill a card of introduction to you, as he was anxious to contact worthwhile interests while in the south. At his request I promised to write you a few lines regarding that venture.

When Bill and E. E. Sargent returned from their summer prospecting in the district, they reported doing the assessment work on the McNall gr. up of claims (which Jim and I looked over) and stated they had uncovered additional showings on the ground which were not visible at that time. Unfortunately there seemed to be some disagreement as to what should be done; the majority apparently did not think it necessary to take in powder, wheelbarrow, and the few items needed to clean out some crevasses, or to permit examination which we had strongly urged they do this season. As result nothing really constructive was accomplished on this ground except the uncovering of several additional old cuts and natural outcrops which were still covered by snowdrifts when we were there.

Their primary objective this year appears to have been directed in effort to trace down the other copper showings which original locator McNall (deceased) mentioned years ago to Sargent - McNall's son-in-law, who is the nominal spokesman for the partners. Both Sargent & Hamersley (separately) have reported to me that while they are not satisfied they have located the showings referred by McNall, they have apparently come up with at least two discoveries which from their somewhat vague description would warrant investigation. Sargent asked last month whether I could go down this fall and examine these new finds, and I agreed to do so providing weather conditions made it practical to do so. He was to write a partner, Ernie Pfaff at Mamak, to determine whether Ernie could make the trip with me and get dogs on weather. Possibly Ernie was still in the hills, as Sargent has not been back to office and I suspect it is now too late in the season, as weather - while not severe - is unpredictable.

Although I do not consider Hamersley to be too sharp as a hard rock prospector, it is suggested you get all the information possible from him, for I believe the area has interesting possibilities, and they have found some additional mineralized areas. Except for the shaggy beard, and when he leaves, he is a personable fellow, quite a talker, but I believe tries to tell his story honestly.

REESKwothum River Uranium Strike

Enclosing news item on the "big strike" 110 miles from here reported in Oct. 11th local paper. Haven't any additional data to pass on - Phil is due here tomorrow, and it is possible we may make a trip in there to see what it is all about.

The last paragraph in your Sept. 30 letter was big hit with Alga.

With kind regards, wishes to both of you and your families, from the three of us here,

(Handwritten Signature)

Earl Stewart

cc: RE
cc: PH
September 20, 1954

Mr. Blair W. Stewart,
Cyprus Mines Corporation,
1206 Pacific Mutual Building,
523 West Sixth Street,
Los Angeles 14, California.

Dear Blair:

RE: Various

Thank for your note of Sept. 14th enclosing letter of inquiry to you from Owen Shearer, Palmer, Alaska, and copy of your reply to him. I do not know Mr. Shearer but will try to locate him next time I go out Palmer way. He seems to have gotten around during his 16 days in the Forty Mile country this season. I have heard from others that region is pretty well mineralized, although ears of little "hard rock" prospecting going on in that area. The 740 of Ag "float" is very interesting. I have heard of accidental occurrences and some high grade Ag-pts thru others (but not of their exact location) but not of his reference to Mn or the rare earth minerals. Trust his plans for a better equipped and planned trip back there next year to find something worth while. The region is "old" geologically, and have often thought it should be given attention by the prospecting fraternity.

Will "raise" the gentleman up and see whether he might be a good prospective member for one of your field parties - if your tentative plans mature next year for placing several exploration teams in the Territory.

Salverson—Munson Ni prospect, Spirit Mt. area

Checked Salversons 25½ Lovejoy Ave. address last week but had moved and could not find where to. This afternoon he dropped into office after work. His present address here is:

Andrew Salverson
704 East Fifth Avenue, Anchorage

Following your suggestion I sounded Andrew out on possibility of making a deal with you on basis of your company doing the annual assessment work without further commitments from you at the present time. This proposal has appeal to him. However, he mentioned that Jack O'Neill and the latters nephew, Wm. O'Neill (the latter being the local mining engineer I endeavored to make appointment for you and Tub but didn't connect), had discussed the Spirit Mt. prospect with him, and the O'Neill's asked him to contact them first in event he had received any offers (or feelers) from other sources. I wanted to suggest to Andrew not to put very much dependence on Jack O'Neill as he himself is not noteworthy for dependability as the latter would have to go to others for support, but, of course, refrained from doing so.
It is my guess that after a little reflection Andrew will be back and want to make a deal with you on basis you suggested might be arranged by your company. In any event he asked whether I was writing you regarding results of the interview and if so to ask you to write him direct, outlining the proposal so he could get discuss it with Finnison.

Andrew is especially desirous of doing business or making a deal with a company interested in the Chitina River region, as both he and Neil Finnison know most of the copper occurrences there and both of them would like to connect with a good company to show them the various prospects they have known and been on during past 40 years or more. Should your plans for '55 be on point of "jelling" you could do a lot worse than hiring them for a prospecting venture in that region.

I have not heard from or received any samples from Finnison to date. He is probably one of those oldtimers that writing is such a "major" effort they never get around to it.

Should occasion arise to make trip into Copper River valley before season ends will contact Neil and determine whether or not he went back to Spirit Mt this season. From your discussions (and mine) with him last July my impression is that he would go go for a deal such as you tentatively suggest.

Mt. Malena Pb-Zn prospect

Am still waiting word from Bob Saunders regarding our investigation of this property, held by Harold Farning. Expected to get the "come on" from Bob last week but no word to date, which is holding up another trip or 2 I want to make.

Washington State Cu Prospect

Went thru all my papers here at home but failed to find the memo written after returning that prospect for Bowe Sound in the '40's. Have written my sister in Seattle to send all my old notes, reports, maps, etc to me here, and this report should be amongst them. It may be a month before that 30 years accumulation arrives here.

Spirit Mt. Samples

Mr. Garrett forwarded copy of duplicate pulp samples we took, which Tub had Peter Mack, Wallace, Idaho run. There is a difference in the two sets of analyses - Roy Row reported no copper values (which I have asked him to recheck, as chalcopyrite was plainly visible in No. 2 sample, altho I did not observe any Cu in No. 1 sample). Roys Ni for No. 1 was twice as much as Mack reported and asked him to recheck that also.
Cimenebar

One of the 2 cimenebar prospects examined in my 3 weeks in Kuskokwim River region I believe has possibilities. Spent 5 days on the property, and tied in all showings and old prospecting workings with Brunton and tape traverse.

The owners want and need help and asked us to make contacts with reliable interests if possible. Should you be interested believe you could write your own ticket. Haven't had opportunity as yet to complete a report and supporting maps, etc.

__________

Took two days off last week while waiting to hear from Bob Saunders for major project at home - this one being the kind that could not turn over to Olga.

The sewer division on our "estate" giving continuous trouble built a new cesspool and relined an 850 gal septic tank (for $125, tank only. Cut the cesspool logs and hauled the damned things myself last June). Hired a contractor to come in yesterday for the excavating, and got the two units installed in half day.

As usually happens during a domestic "state of emergency" there was a continuous string of visitors during the critical afternoon and evening period of operations. This installation should last us till the wheels of progress take us into the city limits sometime in the dim future.

Olga joins me in best wishes and kind personal regards.

Sincerely yours,

Martin Jasper
Associate Mining Engineer

Sending copy of this to Tub at Wallace

V.c.c: to PRH
Sept. 9, 1954

Mr. Blair W. Stewart,
Cyprus Mines Corp.,
1206 Pacific Mutual Building,
523 West Sixth Street,
Los Angeles 14, California.

Dear Blair:

I was very glad to receive your letter of August 26th yesterday upon returning from 3 weeks trip down the Kuskokwim River valley region. However, it was regretted to learn that the arduous trip thru the Territory laid you low for a week—this latter, of course, could only be due to the "smoggy" hazards of LA and not to the clean atmosphere of the Territory. Summer colds are undesirable however, wherever picked up.

Many thanks for the kodachrome prints of our several trips which we think are quite good.

Also on returning to the office I found my August 3rd letter to you and Tub had been returned from the Nordale Hotel at Fairbanks, which you will find enclosed. I opened it and removed one set of the pictures I had taken on our trips and will forward to Tub at Wallace, Idaho, to save you the trouble. The enclosed copy of prints are for yourself.

I was glad to learn that you were able to visit the dredge operations in the Fairbanks and Hance areas, as well as a number of other properties in the Seward Peninsula area. During your trip thru the Territory you were able to crowd in a good "birds-eye" view of a number of regions, and certainly obtained a better idea of conditions than possible to do thru study of the numerous USGS and other publications.

RE Mt. Kelson Pb-Zn Property—Mr. Matthew—10-6

...all glad to hear that you reached Fairbanks before Bob Saunders left; received Memo's from Bob dated Aug. 25th & Sept. 1st yesterday also. He returned the 2 USGS Buls on Willow Creek region you borrowed from this office. Saunders mentioned your discussions regarding this property and our plan to make trip to Hernings project this fall. He stated that it would probably be mid-Sept before Herning would have the "new" showings stripped. Apparently has had tough luck with tractor equipment—breakdowns, etc.

As Herning is agreeable will send you my report on the investigations.

-1-
RE Little Susitna-Moose Creek Copper Prospect

So far as I know nothing has been done on this prospect so far this season, and it being late now for planning it seems doubtful any exploration will be undertaken there this year.

When you were here you asked for copy of my report on the area, made last year. Enclosed you will find the requested copy; it is minus the pictures taken and the enlarged topographic map of the section. Negatives of the pictures are in the Juneau office file, as well as the tracing of missing map labeled PLATE 2. Should you wish copies of these, write Phil Goldsworths Juneau office and he will doubtless be glad to supply them for you.

I have an extra copy of PLATE 1 which is enclosed; this is more or less of a regional one, showing the location with relation to the Willow Creek district.

RE Spirit Mt. Ni-Cu. Halversen-Finnison Prospect

Day before leaving on the Kuskokwim trip last month, Andrew Halverson was in. He spoke more or less along the lines you suggested of optioning the property on basis of your Company paying for annual assessment work; I am quite sure both he and Finnison would go for that without commitments as to development work at this time.

Andrew may have gone south - he stated that project he was working on here would be finished within a month (more or less). At same time he announced his interest in any prospective chance of his and Finnison working for you next year on any prospecting project you might possibly undertake in the Copper-Chitina Rivers region. Both of these men know that area very well and both feel they have knowledge of copper properties there which might be of interest to you.

I will call around at Halverson's local address and if he is here will sound him out along line you have in mind. If he has gone south will get his address and forward to you for direct contact.

Finnison has not as yet sent an any samples from the Spirit Mt. area. It is possible he has not returned to Chitina as yet, if he went back to the Ni-Cu prospect as he planned to do.

My wife joins in sending regards and best wishes. She enjoyed meeting you and rub quite as much as -

Yours truly,

[Signature]

Martin Jasper
Associate Mining Engineer

P.S. Am sending copy of this to S.K.C. @ Wallace.

[Copy for P.R.]
To: Jas. A. Williams
From: Martin Jasper
Subject: RADIOACTIVES - REF. YOUR MAR 25th memo

Thank you for your research re Ollie Taylor. Getting quite a few people coming in on the uranium inquiry list.

Believe the airborne scintillometer fever has been caused by the TDM Bul. and local newshawks - the latter breed have habit of magnifying anything said, and put words in mouth of "authoritive" people which are way out of line. You may have noted that in recent newsclipping sent down to you.

Did not think you would find any claims recorded by Ollie Taylor. Humarger Humbarger & Cook feel their old pal was on the "beam", however, and are going out to look for his cliff-side showing when "goes the snow".

Al Engbreath brot in a small specimen this PM - belonged to "oldtimer" friend who had not revealed to him its sources. Is a fine grained, black, medium sp. gr., with faint suggestion of carnottite stain on outside. Engebreth (councilman) believes he knows where it is from - within half hr from here by air; says he saw such a place 20 yrs ago.

CAA pilot Saxton, Swentna, was also in this PM. Has scintillometer in plane and has been cruising around in spare time. Wanted to know where we would suggest systematic survey be made. Does not have recording equipment for "Scinty".

Suggest Saxton look into Kuskokwin region.
Thanks for the various items on the subject. What's gotten everyone thinking about airborne scintillometers all of a sudden? Can we give any credit to our Bulletin? Strandbergs are getting secretive now, huh?

Re Humberger and Cook, have gone through Ketchikan and College assay records for 1952 for possible radioactive sample sent in by Ollie Taylor. No Taylors in Ketchikan file. College file revealed the following assays:

#17990, 17991, 8 Aug., Alex Taylor, Box 577, Mountain View, gold, silver, copper;

#17955, 14 Aug, Richard Taylor, General Delivery, Anchorage, gold, silver;

#17851, 14 June, R. L. Taylor, c/o Local 302, Anchorage, gold, silver.

No radioactives mentioned in any of the above.

Sorry, that's the best I can do.

JAWJC
Office N: Memorandum. Territorial Department of Mines

To: Jas. A. Williams
From: Martin Jasper
Subject: Radioactives

Date: 3/23/54

Office: Anchorage

MR. 22. H. F. Frary, Palmer Highway Office:
Looking up data on Gregor Gunter's use.
Plans prospecting for U3O8 this season in Chugach mt.
Specific location not given.

MR. 22 Eva, (AIME meet) Odin Strandberg:
Mentioned on trip to Seward last week ran into or heard of individual
who had been uranium specimen. Plans to "follow-up" report.
Did not reveal mans identity, but stated not the same as
referred to by J.A. Williams in recent letter.

MR. 23 Am. Bob Reeves:
Meet on 4th floor joined over cup of coffee.
Bob queried re cost of Scintillator and recording equipment asked if
that would be desirable to equip one of his planes with that equipment
on future runs. Encouraged him to do so, suggesting he also obtain
magnetometer equipment as well. Bob indicated he was going to do so.

MR. 23 Pm. Ralph Humberger - Boyd Cook in this PM.
Made inquiry re whether had any record of an Ollie Taylor
locating same mineral claims within 30-50 miles from Anchorage
in 1952. Stated Ollie made pitchblende discovery that year,
wife died later that year early '53 following which he left for States
with no plans to return. Taylor was friend of above, told them
about making the pitchblende (approx. location, 15 mi. from Anchorage
by plane where cut and on lake near discovery). They are not certain
he located any claims; suggested they go thru the Mining Recorder's
records in local office. Cook & Humberger told Taylor had sent sample
to College & to Ketchikan for analysis; do you have a record of such
a sample sent in by Taylor in 1952?

In any event they plan on checking the presumed discovery this
summer.

[Signature]
MEMO TO: Phil R. Holdsworth  
Commissioner of Mines

FROM: Martin Jasper

Subject: Magnetite and Pyrite Deposits

While at Lyons chrome property I questioned Bill as to whether or not he had run across any good showings of either of above two types of deposits.

He stated that he had run across a number of magnetite showings in the Lake Clark region which were relatively easy of access. His observations were to effect that one or two of them were of considerable magnitude but he had not given serious thought to them before because they carry an estimated plus or minus ½% Cu. I could not advise him as to whether or not that was especially undesirable. What's the dope on minor copper impurities in magnetite?

Regarding pyrite he claims to have found a couple deposits of this type out on the Alaska Peninsula on tidewater, but did not mention their location.

On advising him of the current interest and general "earmarks" required on prospects of these two types, he stated he would plan on going out next season and staking them.

I advised him if and when he did so one of the field men in our department would like to go along and report upon the occurrences, to which he agreed.

These items are worth keeping in mind and following up if possible next season. Bill appears to be a very good observer - and as Jim Williams says, is certainly a hustler.

Privately, I am not too optimistic over his present plan to fight the winter months on the chrome project, but he has my best wishes on his objective.
File cross reference form under name or subject at top of the sheet and by the latest date of papers. Describe matter for identification purposes. The papers, themselves, should be filed under name or subject after "SEE."

File No. 800

Name or Subject: 3rd Division

Regarding: Sedanka Gene
Unalaska Is.
at all prospects on eastern end of Aleutian Islands.

Date: Apr 8, 1953

SEE

File No. 505-20

Name or Subject: Letter

To: John H. Reinken

Seldovia

Apr 8, 1953

Library Bureau

For use in all Filing Systems
Name or Subject: "Red Dominon"  
File No.: 805

Regarding:
Letter from John H. Reincken re seeking claims in Mastery Res. (Alaskan Islands)

Date: 4/1/52

SEE
Name or Subject: "Widnower"
File No.: 505.10
October 21, 1952

Mr. John LeFevre
LeFevre Sales and Service Company
Cordova, Alaska

Dear Mr. LeFevre:

Enclosed are copies of the recommendations of this department relative to the proposed Copper River road. Also enclosed is a tabulated list of all known deposits and prospects in the area under discussion, numbered to correspond with marked locations on a map.

We are also sending you today, under separate cover, a map which is made up of parts of four quadrangles. All the known mineral occurrences listed in the above mentioned tabulation are indicated on this map, correspondingly numbered, and colored to indicate the specific mineral found there. The color legend indicating the various minerals will also be found on the map.

The available additional copies of the four quadrangle maps necessary for duplication are also being forwarded to you.

We trust this information reaches you in time to meet your needs.

Very truly yours,

Phil R. Holdsworth
Commissioner of Mines

FRH'cm
enc.

Feder 12

Map filed in Clinton County
White River Prec. (State map)
THE NEED FOR ROADS IN THE COPPER RIVER REGION OF ALASKA AS A STIMULANT TO MINERAL DEVELOPMENT

A thorough study of all known mineral prospects and producers in the Copper River Region of Alaska indicates the urgent need for roads in this area to open the country up for additional prospecting and eventual production.

The general region is best known for its copper, oil, coal and gold occurrences. A study of the accompanying map and tabulation clearly shows the areas where these various minerals are concentrated.

The most important metal, by far, known to occur extensively throughout the upper Copper River area is copper. This metal is also of great strategic importance on a national scale and every effort should be made to increase our known reserves. This can only be accomplished by providing access roads for movement of prospecting equipment into the favorable areas. An access road into the great copper belt along the south slope of the Wrangell Mountains would be most rapidly and economically constructed by beginning at Chitina, and progressing easterly along the old railroad right-of-way to McCarthy.

This plan, of course, does not give the most direct route from the coast, but it does give access to the area in the shortest time and at the lowest cost. The connecting road link to Cordova, the nearest and most logical outlet for production from this area, would naturally follow as part of the road construction program.

Coal, an even more important mineral from a Territorial standpoint, occurs in large quantities in the Bering River field, some sixty miles east of Cordova. U. S. Geological Survey reports indicate an area of 50 square miles underlain by coal-bearing formations. Reported reserves in this field are 1.1 billion tons of bituminous and 2.1 billion tons of anthracite coal. The field is notably folded and faulted, but very little actual prospecting has been done to “prove up” any mineable blocks.

The present coal situation in the Territory is not a healthy one. Operating mines are just able to meet the combined local demands of military and private consumers. New plants are now under construction which will materially increase this consumption. The Bering River coal field is badly in need of an access road to stimulate the development of the vast possibilities indicated by the limited information now available.

A branch road only 25 miles in length, from a point at approximately 39-mile on the old Copper River Railroad, would reach the center of the best known part of the coal field.
The future economy of the Territory is also going to depend, to a large extent, on the development of oil. Several oil companies have shown a marked interest in Alaskan oil possibilities this past season. The Deep Rock Oil Company, of Tulsa, Oklahoma, is to initiate actual drilling operations in the Katalla area next year, under the Northern Development Company's leases.

A short, 15-mile, extension of the above-mentioned Bering Coal Field branch would be of immeasurable assistance in giving access to the proposed drilling sites from the harbor at Cordova.

The Territorial Department of Mines, in the interest of developing the mineral resources of the Copper River Basin, highly recommends immediate construction of:

1. The road from Cordova to Mile-39 on the Copper River railroad right-of-way; a 25-mile branch road to the Bering River Coal Field and a 15-mile extension to the Katalla Oil Field.

2. The road from Chitina to McCarthy along the old railroad right-of-way.

The balance of the road, up the Copper River from 39-Mile to Chitina, should follow as the logical outlet to the port of Cordova for any production resulting from exploration in the Chitina and Nisina River valleys.

Phil R. Holdsworth
Commissioner of Mines

October 20, 1952

Copy sent Brie Nisina
Atwood Road Town
1949 15x
### Mineral Deposits in the More Remote Areas of the Cordova, McCarthy, and Chitina Districts

<table>
<thead>
<tr>
<th>Name or Location</th>
<th>Type</th>
<th>Principal Minerals</th>
<th>Description</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. McKinley Lake Prospects</td>
<td>Lode Gold</td>
<td>Pyrite, Arsenopyrite</td>
<td>Former producer. Several properties on a number of gold-quartz veins from a few inches to 20 feet wide and paralleling the beds of the Orca Sedimentary. Values average $10 to $20 with assays reported to $100 at the old price.</td>
<td>USGS Bull. 542, pp. 78-80</td>
</tr>
<tr>
<td>2. Katalla Oil</td>
<td>Oil</td>
<td>Oil</td>
<td>Former producer, and will produce again. Possibilities of a large oil field. More exploration needed to determine extent.</td>
<td>USGS Prelim.</td>
</tr>
<tr>
<td>3. Bering River Coal</td>
<td>Coal</td>
<td>Coal</td>
<td>High grade coal, including coking coal and anthracite, is definitely known here. Reports have not been too enthusiastic, but very little actual prospecting or development work has been done.</td>
<td>USGS Circ. 146, 1951</td>
</tr>
<tr>
<td>6. Yellow Band Group</td>
<td>Lode Gold</td>
<td>Gold, Pyrite</td>
<td>Mineralized dike and vein in graywackes and slate. One channel sample across the dike was 7 feet long and was $20 per ton. Other assays fan from $14 to $120.</td>
<td>Roehm 1936-38</td>
</tr>
<tr>
<td>7. Golconda Creek Placers</td>
<td>Placer</td>
<td>Native Gold</td>
<td>Past producer. Shallow gravel resulting from older reworked channel. A few benches left from older channel.</td>
<td>USGS Bull. 576, pp. 45-48</td>
</tr>
<tr>
<td>8. Bremner Mining Co.</td>
<td>Lode Gold</td>
<td>Pyrite, Galena</td>
<td>Past producer. Several gold-quartz veins in area of slates and graywackes that are cut with light colored porphyritic dikes.</td>
<td>USGS Bull. 894, p. 128</td>
</tr>
<tr>
<td>No.</td>
<td>Name</td>
<td>Metal</td>
<td>Minerals</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
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<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>9.</td>
<td>Bear Mine</td>
<td>Gold</td>
<td>Gold, Silver, Fissure filling</td>
<td>Varying from a few inches to 3½ feet and traceable for 250 feet. Roehm reports values from $1.75 to $22.82 and recommends further work. Other smaller veins present.</td>
</tr>
<tr>
<td>10.</td>
<td>O'Hara</td>
<td>Lead-Zinc</td>
<td>Galena, Pyrite, Sphalerite</td>
<td>Twelve-foot ore body carrying 10 to 15% lead, also sphalerite and pyrite. Sheppard considered it a good prospect. Another similar deposit reported 5 miles north.</td>
</tr>
<tr>
<td>11.</td>
<td>Canyon Creek</td>
<td>Copper</td>
<td>Pyrite, Chalcopyrite</td>
<td>Minerals are in peridotite, which is probably faulted into limestone. It is reported that assays show nickel also.</td>
</tr>
<tr>
<td>12.</td>
<td>Spirit Mountain</td>
<td>Nickel-Copper</td>
<td>Pyrrhotite, Chalcopyrite, Bravolite</td>
<td>Peridotite and pyroxenite, carrying sulfides, intruded into Carboniferous metamorphics. Estimated reserves, 6,500 tons in sight, but no development work done. Sample assays from 0.22 to 7.6% nickel and 0.12 to 1.56% copper.</td>
</tr>
<tr>
<td>13.</td>
<td>Falls Creek</td>
<td>Copper</td>
<td>Bornite, Covellite, Chalcopyrite</td>
<td>Ore minerals in greenstone. Geology confused.</td>
</tr>
<tr>
<td>14.</td>
<td>Surprise Creek</td>
<td>Copper</td>
<td>Chalcopyrite, Pyrite, Chrysocolla, Chalcocite</td>
<td>Shattered zone in greenstone contains quartz plus ore minerals.</td>
</tr>
<tr>
<td>15.</td>
<td>Tenas Creek</td>
<td>Copper</td>
<td></td>
<td>No information on this except that it is marked on Miller's map.</td>
</tr>
<tr>
<td>16.</td>
<td>Blakney</td>
<td>Copper</td>
<td>Pyrite, Chalcopyrite</td>
<td>Fractures in fault zone in greenstone filled with sulfides forming small veins of sulfides totalling about 3 feet in width. Very promising prospect.</td>
</tr>
<tr>
<td>No.</td>
<td>Location</td>
<td>Commodity</td>
<td>Minerals</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
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<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>17.</td>
<td>Mile 109 and vicinity</td>
<td>Lode Gold</td>
<td>Galena</td>
<td>One gold-quartz vein which is 4 feet thick, and another vein which is reported to carry values of 45¢ at old price.</td>
</tr>
<tr>
<td>18.</td>
<td>Chitina Prospect</td>
<td>Lode Gold</td>
<td>Gold</td>
<td>Nothing on this except for Miller's map symbol.</td>
</tr>
<tr>
<td>19.</td>
<td>Benito Creek</td>
<td>Lode Gold</td>
<td>Pyrite</td>
<td>Three-foot quartz vein in diorite and basalt. Vein well defined for 600 feet. Carries free gold, some of it in large pieces, and silver. Two other large quartz veins nearby.</td>
</tr>
<tr>
<td>20.</td>
<td>Elliot Creek</td>
<td>Copper</td>
<td>Bornite</td>
<td>Deposits in greenstone along fractures as filling and replacements. Prospects hold great promise and cover area of six miles along upper part of creek. Over 15 properties were staked at one time, some of which carried good gold values also.</td>
</tr>
<tr>
<td>21.</td>
<td>Copper Creek</td>
<td>Copper</td>
<td>Bornite</td>
<td>Nine properties on three forks of Copper Creek along the limestone-greenstone contact. Some are in the limestone as replacement deposits, and some are in the greenstone. No producers, but one contains a significant amount of indicated ore.</td>
</tr>
<tr>
<td>22.</td>
<td>Rock Creek</td>
<td>Copper</td>
<td>Bornite</td>
<td>Crushed calcite some 3 to 3½ feet wide in greenstone carries small irregular bodies of ore minerals.</td>
</tr>
<tr>
<td>24.</td>
<td>Silver Star Group</td>
<td>Copper-Silver</td>
<td>Tetrahedrite, Galena, Asurite, Malachite</td>
<td>Vault some 30 inches thick is filled with ore-bearing quartz. The chief mineral is the silver-bearing tetrahedrite. Assays show silver from 25 to 700 ounces, copper from 1 to 32 %, and some bismuth.</td>
</tr>
<tr>
<td>No.</td>
<td>Creek Name</td>
<td>Mineral</td>
<td>Type</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
<td>------------------</td>
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<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>25</td>
<td>Mineral Creek</td>
<td>Copper</td>
<td>Pyrite, Chalcopyrite</td>
<td>Numerous mineralized faults. Assays reported to also show $9.75 in gold (old price) and 3 ounces of silver.</td>
</tr>
<tr>
<td>26</td>
<td>Lost Cabin Group</td>
<td>Copper</td>
<td>Chalcopyrite, Bornite</td>
<td>Copper is disseminated in greenstone below the limestone and without gangue.</td>
</tr>
<tr>
<td>27</td>
<td>Good Enough Group</td>
<td>Copper</td>
<td>Native Copper, Chalcopyrite</td>
<td>Mineralized fracture zones in basalt. Quartz and calcite associated. Some greenstone replacement.</td>
</tr>
<tr>
<td>28</td>
<td>Fall Creek</td>
<td>Copper</td>
<td>Bornite, Chalcopyrite, Native Copper</td>
<td>Minerals in fractured amygdaloidal greenstone.</td>
</tr>
<tr>
<td>29</td>
<td>Surprise Creek</td>
<td>Copper</td>
<td>Chalcopyrite, Chalcopyrite, Bornite</td>
<td>Three or four prospects on mineralized shear zones up to four feet wide in greenstone which is intruded by granodiorite.</td>
</tr>
<tr>
<td>30</td>
<td>Roaring Creek</td>
<td>Copper</td>
<td>Chalcopyrite, Native Copper</td>
<td>A fairly large area over which the copper minerals are scattered in small amounts through the greenstone. This creek offers excellent opportunity for a limited amount of water power.</td>
</tr>
<tr>
<td>31</td>
<td>Porcupine Creek</td>
<td>Copper</td>
<td>Chalcopyrite, Malachite</td>
<td>A few properties developed in the Nikolai greenstone. Small fissures in the sheared country rock. A little gold is reported to be included.</td>
</tr>
<tr>
<td>32</td>
<td>Clear Creek</td>
<td>Copper</td>
<td>Pyrite, Chalcopyrite, Bornite</td>
<td>Several properties near the limestone-greenstone contact, but on the greenstone side. Prospects not too good, although a large amount of development work was done on one in the expectations of a low-grade operation. Small production.</td>
</tr>
<tr>
<td>Number</td>
<td>Claim Name</td>
<td>Type</td>
<td>Minerals Described</td>
<td>Source</td>
</tr>
<tr>
<td>--------</td>
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<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>33.</td>
<td>Nugget Creek</td>
<td>Copper</td>
<td>Bornite, Chalcopryrite, Pyrite, Native Copper</td>
<td>Good and extensive mineralization in a-wygaloidal USGS Bull 745 p. 128-133</td>
</tr>
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<tr>
<td>34.</td>
<td>Finch Group (Big Horn)</td>
<td>Copper</td>
<td>Bornite, Chalcocite</td>
<td>A group of prospects on small veins in fractured and faulted greenstone.</td>
</tr>
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<td></td>
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<td></td>
<td>USGS Bull. 745 pp. 133-135</td>
</tr>
<tr>
<td>35.</td>
<td>Mayflower Claim</td>
<td>Copper</td>
<td>Bornite, Chalcocite</td>
<td>Minerals are in faulted fracture zone which also contains quartz. Possibilities of ore body are good. Location is in very rugged terrain.</td>
</tr>
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<td>USGS Bull. 745 pp. 135-136</td>
</tr>
<tr>
<td>36.</td>
<td>Pierson Claim</td>
<td>Copper</td>
<td>Pyrite, Chalcopyrite</td>
<td>Two to three foot shear zone near contact. Mostly staining.</td>
</tr>
<tr>
<td></td>
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<td>USGS Bull. 745 p. 136</td>
</tr>
<tr>
<td>37.</td>
<td>Berg Creek</td>
<td>Lode Gold</td>
<td>Pyrite, Chalcopryrite</td>
<td>Near the Berg Creek copper deposit. Veins are near diorite-limestone contact, and show a variety of phases of mineralization. Assays show values of up to $150, old price, but average is much less. Former producer.</td>
</tr>
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<td>USGS Bull. 745 pp. 133-146</td>
</tr>
<tr>
<td>38.</td>
<td>Berg Creek</td>
<td>Copper</td>
<td>Magnetite, Pyrite, Chalcopryrite</td>
<td>Minerals occur in veins in diorite which has intruded the nearby limestone. No production, but these prospects are very good and also carry gold and silver.</td>
</tr>
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<td></td>
<td></td>
<td>USGS Bull. 745 pp. 139-141</td>
</tr>
<tr>
<td>39.</td>
<td>Copper Queen</td>
<td>Copper</td>
<td>Pyrite, Garnet, Chalcopryrite, Magnetite</td>
<td>Considerable quantity of mineralization in greenstone near contact. Geology confused, but prospect is good.</td>
</tr>
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<td></td>
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<td></td>
<td>USGS Bull. 745 p. 139</td>
</tr>
<tr>
<td>40.</td>
<td>MacDougall Creek</td>
<td>Copper</td>
<td>Pyrite, Pyrrhotite, Magnetite, Chalcopryrite</td>
<td>Several prospects in limestone - diorite contact area. Possibilities of ore bodies not great.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>USGS Bull. 745 pp. 137-139</td>
</tr>
<tr>
<td>41.</td>
<td>Trail Creek</td>
<td>Copper</td>
<td>Iron and Copper, Sulphides</td>
<td>Good outcrops, but underground work disclosed no ore.</td>
</tr>
<tr>
<td>No.</td>
<td>Property/Prospect</td>
<td>Type</td>
<td>Minerals</td>
<td>Description</td>
</tr>
<tr>
<td>-----</td>
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</tr>
<tr>
<td>42.</td>
<td>Kinney-Golden Property</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>Seven claims on shale-limestone contact. Copper is found along the contact and in nearby greenstone.</td>
</tr>
<tr>
<td>43.</td>
<td>Lakina prosp. Copper</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>Veins along fracture planes in shear zone. Also native copper in greenstone at different contact. Small production.</td>
</tr>
<tr>
<td>44.</td>
<td>Hidden and Fourth of July Creeks</td>
<td>Copper</td>
<td>Bornite</td>
<td>Minerals are in greenstone along limestone contact in many places on both creeks. A little production on Fourth of July Creek.</td>
</tr>
<tr>
<td>45.</td>
<td>Regal Prospect</td>
<td>Copper</td>
<td>Malachite</td>
<td>Apparently no large bodies exposed. Malachite in shale at limestone-greenstone contact.</td>
</tr>
<tr>
<td>46.</td>
<td>Kennecott Copper Corp.</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>Over a billion pounds of copper produced from four deposits in the Chistoshep greenstone contact. Considerable lower-grade ore left. Operation closed because of lowering copper price, increasing costs, labor difficulties, and lowering grade of ore.</td>
</tr>
<tr>
<td>47.</td>
<td>Porphyry Mountain</td>
<td>Molybdenum</td>
<td>Molybdenite</td>
<td>Molybdenite-quartz vein in granite porphyry varying from ½ to 1½ inches in width and exposed for 140 feet. Two channel samples show values of 1.83% and 0.87% molybdenum.</td>
</tr>
<tr>
<td>48.</td>
<td>Tjosevig Prospect</td>
<td>Copper</td>
<td>Malachite</td>
<td>Minerals in thin films and veinlets in limestone.</td>
</tr>
<tr>
<td>49.</td>
<td>Green Butte Mine</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>Produced about 1,500 tons of high-grade copper ore. Copper in limestone close to contact. Ore averaged 1200 pounds of copper and 10 ounces of silver to the ton. Significant quantities of ore probably remain.</td>
</tr>
</tbody>
</table>
50. Nikolai Prospect  
Copper  
Chalcopyrite  
Bornite  
No production. Copper in two shear zones in greenstone. One is exposed for 150 feet and is one to four feet thick. The other is smaller. Probably 1500 tons of 25% copper in sight.  
USGS Bull. 947-F pp. 106-108  
Wismar 1921-1925  
J.C. Shepard 1926

51. Peavine Prospect  
Copper  
No geological information available. No production.  
USGS Bull. 947-F p. 120

52. Houghton-Alaska Co.  
Copper  
On limestone - greenstone contact, but no further geological information available. No production.  
USGS Bull. 947-F p. 120

53. Contact Gulch  
Copper  
On limestone - greenstone contact, but no further geological information available. No production.  
USGS Bull. 947-F p. 120

54. Nelson Prospect  
Copper  
Chalcocite  
Covellite  
Small production. Openings in limestone filled by mineralization, which also replaced it along bedding planes and fissures. Over 130 tons of 60% material in sight. Very good prospect. Presently under exploration by diamond drilling.  
USGS Bull. 947-F pp. 110-114  
Roelmi 1936

55. Medowen Prospects  
Copper  
Pyrite  
Chalcocite  
Chalcopyrite  
Minerals are in massive lenses, thin veins, fracture fillings, and as disseminated grains in a 20 foot layer of limestone for 200 feet. Smaller lenses and fissure fillings elsewhere.  
USGS Bull. 947-F pp. 114-117

56. Erickson Prospect  
Copper  
Native Copper  
Chalcocite  
Malachite  
Cuprite  
Some production. Minerals are restricted to a 6 to 8 foot amygdaloidal greenstone flow. Native copper is the chief mineral. The average value is estimated at less than 5%, but parts of the bed may contain up to 10%.  
USGS Bull. 947-F pp. 117-118
<table>
<thead>
<tr>
<th>No.</th>
<th>Location</th>
<th>Metal</th>
<th>Minerals/Mineralization</th>
<th>Remarks</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>57.</td>
<td>Westover</td>
<td>Copper</td>
<td>Bornite, Chalcocite, Malachite, Minerals are in lenses, veins, and fractures, and ore also disseminated in the limestone. Bedding faults were the control. Small production. About 100 tons of 30% ore and 100 tons of 10% ore in sight.</td>
<td>USGS Bull. 947-F pp. 108-110, Wimmer 1924-25, Shepard 1926</td>
<td></td>
</tr>
<tr>
<td>58.</td>
<td>Dan Creek</td>
<td>Copper</td>
<td>Bornite, Chalcopyrite, Native Copper in the placer gravels. Several properties on mineralization in the greenstone. No production. Native copper</td>
<td>USGS Bull 947-F pp. 119-120</td>
<td></td>
</tr>
<tr>
<td>59.</td>
<td>Dan, Copper Chittitú, and Rex Creeks</td>
<td>Placer</td>
<td>Native Gold, Native Copper</td>
<td>All past producers, but not worked out. These native copper only because of economic conditions. Favorable reserves remain.</td>
<td>USGS Bul 948 pp. 100-107, USGS Bull 894 pp. 128-129, Roehm 1936, 1938, Holdsworth 1952</td>
</tr>
<tr>
<td>60.</td>
<td>Williams Peak</td>
<td>Antimony-Gold</td>
<td>Stibnite, Gold</td>
<td>Two narrow well-defined sheet-like veins which average about 11 inches in width. Assays show values in antimony up to 15% and in gold up to 1.1 ounces.</td>
<td>Roehm 1936, 1938, Holdsworth 1952</td>
</tr>
<tr>
<td>61.</td>
<td>Young Creek</td>
<td>Placer</td>
<td>Native Gold</td>
<td>Low grade ground, but a long stream. Little production. Native copper and silver associated.</td>
<td>USGS Bull. 675 pp. 74-76</td>
</tr>
<tr>
<td>62.</td>
<td>Erickson Gulch</td>
<td>Copper</td>
<td>Sulphides</td>
<td>Copper sulphides in a shear zone in greenstone. Little work done on it.</td>
<td>USGS Bull. 675 pp. 78</td>
</tr>
<tr>
<td>63.</td>
<td>Canyon Creek</td>
<td>Molybdenum</td>
<td>Molybdenite</td>
<td>Vein reported to be 8 feet wide and in granite. The moly forms solid vein 12 inches thick, then in stringers through the quarts for the rest of the width. Very good prospect. Further moly reported by local prospector to show on Hawkins Glacier side.</td>
<td>USGS Bull. 675 pp. 79, USGS Bull. 926-C pp. 182-183</td>
</tr>
<tr>
<td>64.</td>
<td>Hawkins Glacier</td>
<td>Copper</td>
<td>Chalcopyrite, Native Copper</td>
<td>Vein carrying sulphides cuts greenstone. Near greenstone contains native copper.</td>
<td>USGS Bull. 675 pp. 78</td>
</tr>
<tr>
<td></td>
<td>Location</td>
<td>Commodity</td>
<td>Mineral</td>
<td>Description</td>
<td>Source</td>
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<tr>
<td>65.</td>
<td>Barnard Glacier and Chitina River</td>
<td>Copper</td>
<td>Chalcopyrite</td>
<td>Throughout this area, copper mineralization is found. Galena also shows up in part of the area. The Martin Harrais property is probably included in this area.</td>
<td>USGS Bull. 675 pp. 78-79 Harrais Report</td>
</tr>
<tr>
<td>67.</td>
<td>Kiagna River</td>
<td>Iron Ore</td>
<td>Sulphides</td>
<td>A large vein of sulphides crosses the branches of the Kiagna. It was staked as iron ore, but no work was done.</td>
<td>USGS Bull. 675 p. 78</td>
</tr>
</tbody>
</table>
August 13, 1947.

S/Sgt. Wayne L. Miller - 19013082,
199th Station Hospital,
Adak, Alaska,
APO 980, c/o Postmaster,
Seattle, Washington.

Dear Sgt. Miller:

In response to your recent request, there are being forwarded to you under separate cover the pamphlet on prospeclng in Alaska and the booklet on industrial minerals as a field for prospecting.

The geology of the western Aleutians has not been studied in detail. Stephen R. Capps, Geologist with the U.S. Geological Survey, accompanied a Navy expedition in 1932 to the western Aleutians, but he was unable to study in detail any of the islands visited. The results of his observations were published in U.S. Geological Survey bulletin 859-D, which is out of print. Extracts from this bulletin have been typed and are inclosed herewith. Popof, Unga and Unalaska have been studied in more detail. Descriptions of some of the mineral occurrences on these islands was published in 1911, U.S. Geological Survey bulletin 469, which is also out of print. Extracts from this bulletin are also inclosed for your information. Interest has lately been revived in the old Apollo mine on Unga Island and I understand that an engineer for a large mining company is now on the island for an examination for the purpose of determining whether or not the remaining ore bodies might be mined at a profit under present improved metallurgical practices.

Engineers of the U.S. Bureau of Mines examined and sampled surface showings of sphalerite (zinc blende) on Sedanka Island recently and reported favorably on the occurrences, although lack of development prevented the examining engineers from determining depth or continuity of the deposits.

The Curator of the Territorial Museum here at Juneau received last spring from Mrs. H. D. Gerton, Charnofski Harbor, Unalaska Island, specimens of agate, jasper, amethyst, etc. that appear to be suitable gem material for cutting and polishing. It occurred to me that similar material might be available on some of the more westward islands of the chain, possibly Adak. Beach wash should be favorable for this type of material, if interested in the search for it.

Very truly yours,

Incl.

R. L. STEWART, Clerk.
Mr. B.D. Stewart
Commissioner of Mines,
Juneau, Alaska

Dear Sir:

I would like the pamphlets "Prospecting in Alaska" by R.L. Stewart, and "Industrial Minerals as a field for Prospecting in Alaska" by A.E. Glover.

I should be very happy to receive any information concerning the geology of the Aleutians.

I will pay any cost by return mail.

Sincerely yours

Wayne L. Miller

Wayne L. Miller
In traverses carried along the shores of Iliuliuk Bay and on Amaknak Island (the island on which Dutch Harbor is situated) the only rocks observed were basic lavas and tuffs that have a prevailing dip of about 15° - 30° N. These volcanic rocks are cut by numerous dikes and sills of similar composition. The southeast shore of Iliuliuk Bay was not examined in detail but appears also to be composed entirely of volcanic rocks, though their structure is more diverse than that of the rocks on Amaknak Island. In thin section three specimens of rock taken from the shores of Amaknak Island proved to be basaltic tuff, basalt porphyry, and olivine basalt porphyry. No rocks other than those of volcanic origin were seen.

A short trip to the head of Captains Bay, southwest of Unalaska, showed the presence there of abundant granitic gravel discharged by the Shaishnikof River, which flows from the high interior of Unalaska Island northeastward into the head of Captains Bay. The pebbles of this gravel, examined in thin section, were found to be fairly coarse-grained quartz monzonite, of a type which the writer saw nowhere else in the Aleutian Islands. Associated with the quartz monzonite gravel on the bars of the river are minor amounts of chloritized tuff and a small proportion of volcanic rocks ranging from light-colored lavas and porphyries to basalt.

A short trip southward from the head of Captains Bay showed quartz-pyroxene diorite in place. The abundance of quartz monzonite and of diorite in the gravel of the Shaishnikof River indicates that a large part of its basin lies in granular intrusive rocks, although the portion of the island bordering all of Unalaska Bay except the upper end of Captains Bay is evidently made up of volcanic materials. The cliffs in the neighborhood of Cape Cheerful at the west end of the Bay, show a great thickness of lava flows; those toward the base of the cliffs are relatively thin, but three flows from 200 to 500 feet thick appear toward the top of the cliffs.

A brief examination of the shores of the head of Chernuski Harbor, on the northwest coast of Unalaska Island near the site of an abandoned village, showed that this portion of the island is also composed entirely of volcanic rocks. Two specimens of bedrock both proved to be basalts. On the Pacific slope of the bar on which the village is located the beach is composed almost exclusively of highly polished pebbles of a dark to light green fine-grained rock that in thin section proved to be an obsidian tuff composed of both
rounded and angular fragments of unaltered volcanic glass, now
silicified and cemented together by very fine grained quartz. Some
fragments of plagioclase and other original minerals are still
visible, but the bulk of the rock is made up of the volcanic glass.
Native stone implements of a similar rock have been found in the
region by archaeologists, and it is likely that the material for
them was obtained from this locality. The rock, through hard to
work, takes on an exceptionally smooth polish and can be shaped
into superior pointed weapons.

Unalaska Island, like all the other high mountainous
islands of the Aleutian chain, was severely glaciated in Pleistocene
time by glaciers that originated on the mountain slopes and pushed
radially out to sea in all directions. This island apparently
acted as the center for the development of a local ice cap, so
that not only the mountain valleys but the lowlands and the lower
portions of the intervally ridges were overridden and sculptured
by glacial ice. In places this ice scour has given strong surface
expression to the structure of the underlying lavas and tuff. Thus
on Amaknak Island, in the area between Dutch Harbor and the head of
Iliulik Bay, glacial plucking has developed a series of steplike
ridges that as viewed from the air show steep scarps on their south
face and smooth dip slopes on the north slope. The whole island
bears conspicuous evidence of strong glacial sculpturing, and
except for the steep wave-cut cliffs on exposed shores and the
building of deltas, bars, and spits in protected places, postglacial
erosion has been slight, and the land forms are much as they were
when the glaciers receded.

ATKA ISLAND

A portion of the shore of Nazan Bay, Atka Island, near the
village of Atka, was examined, and the rocks there all proved to
be volcanic. Two thin sections cut from rocks collected near the
village were both found to be porphyritic basalts, considerably
altered. In one the phenocrysts of plagioclase were almost entirely
altered to chloritic minerals and epidote. Some of the basalt
flows show prominent columnar jointing, and associated with the
flows are hard, well-cemented tuffaceous rocks in which large angular
fragments are distinguishable.

It is reported that the natives formerly mined native copper
on Salt Island, a small island that lies just northwest of the
center of Atka Island. This copper probably occurs in an
amygdaloidal lava flow. At the time of visit the higher peaks of
the island were concealed in clouds, but it is said that the
volcanic peak on the north end of the island shows signs of having
been active at no very remote date, though the cone is considerably
dissected. It is also reported that a hot spring a few miles above
the head of Korovin Bay, on the northwest side of Atka Island, boils
violently at intervals.

-2-
ADAK ISLAND

Opportunities for close observation of the geology of Adak Island were confined to the Bay of Islands and the head of Three Arm Bay, on the west shore of the island, though a comprehensive view of all the north half of the island, except where concealed by clouds, was obtained from the air. The portion of Adak Island studied is composed entirely of volcanic rocks, none of the basement rocks through which the volcanic materials were erupted being seen. The south and west shores of the Bay of Islands are made up of dense, hard flow rocks and massive tuffs. The flows include andesite or latite porphyry and basaltic greenstone. The islands at the entrance of the bay appear to consist dominantly of tuffaceous material, with only subordinate amounts of flow rocks.

Between the Bay of Islands and Andrew Bay, on the north shore of Adak Island, there is a volcanic peak whose top was continually in clouds during the time of visit but whose lower slopes contain large quantities of loosely consolidated ashes, tuff, and fragmental material, indicating comparatively recent activity. The materials, being little indurated, have suffered much more from post-glacial erosion than the harder rocks around the Bay of Islands, and they have slumped extensively on being undercut by the waves.

Adak Island as a whole shows severe glacial erosion and appears to have been almost entirely covered by a local ice cap at the time of its maximum glaciation. The Bay of Islands, Three Arm Bay, and the Bay of Waterfalls (on the south shore) are all glacial fiords, and high on the slopes of the bordering mountains glacial lakes lie in basins excavated by the ice in the volcanic rocks. Erratic boulders occur even on the high slopes, although over most of the surface of the island the bedrock has been ice-scoured and is covered only by a thin layer of rock-disintegration products, soil, and vegetation.

KISKA ISLAND

Opportunity was offered to study that part of Kiska Island immediately adjacent to Kiska Harbor, on the east shore. On entering this harbor, Little Kiska Head, at the northwest extremity of Little Kiska Island, stands out as a fine example of columnar basalt, exposed in steep, wave-out cliffs. The north and west shores of the harbor are composed mainly of loosely indurated volcanic tuff, with fragments 1 inch in diameter or less. This tuff is bedded, dipping 5° - 10° N., and, though standing in nearly vertical cliffs where wave erosion is active, is nevertheless so poorly indurated that it crumbles readily under the hammer. Near the north entrance to the harbor the tuff is overlain by basaltic lava. The shores and the mountain on the south side of the harbor are composed of lava flows that include dark basaltic rocks, some of which are partly glassy, and lighter-colored lavas, among which a quartz latite was identified.
Only the shores of Kiska Harbor were studied at close range, but as seen from the air Little Kiska Island and all of the eastern and northern portion of Kiska Island appear to contain only volcanic rocks.

At the northern end of Kiska Island is a volcanic cone some 4,000 feet high that was entirely snow-covered almost to sea level in late May 1932. It slopes show only moderate dissection, and the aviators of the expedition thought they detected fumaroles on its upper slopes.

Kiska Island shows the effects of glacial erosion, but as most portions of the island are less than 1,500 feet above sea level the glacial scouring was in most places not severe.

**ATTU ISLAND**

As seen from the air Attu Island is a rugged mountainous island, of which the main peaks and ridges rise to elevations of 3,000 to 3,500 feet. So far as is known, there are no active volcanic vents on this island, and indeed no mountains were seen whose contours were constructional. The whole island has been heavily glaciated during Pleistocene time, and the present topography has been produced by the glacial modification of the preexisting stream-eroded landscape. As in most of the other islands of the Aleutian chain, the shores of Attu Island are exposed to the full force of the surf and are generally clifflike, with little or no beach exposed. Attu Island has almost no low-lying areas, the mountains nearly everywhere descending abruptly to the shore and being edged by steep cliffs against which a constant surf breaks, so that landing by a small boat is dangerous or impossible, and access on foot is difficult. Close-range study of the geology was confined to the shores of Chichagof Harbor, on the north side of the island, in the vicinity of the village of Attu. At the time of visit, in late May, the island was almost entirely snow-covered down to the shore line, and tidal lagoons were still covered with ice.

The north shore of Chichagof Harbor is composed mainly of basaltic lavas, some of which are full of irregular crusts. Associated with the basic flow rocks are some coarser-grained acidic rocks that in thin section are seen to consist of sodic diorite, in which chlorite and epidote are present as alteration products. Some unaltered pyroxene is present, and magnetite and epidote were noted as accessory minerals. This sodic diorite is believed to represent an intrusive into the more basic lavas. At one place it is cut by a stockwork of quartz stringers that have a fairly definite linear arrangement, striking northeast and dipping nearly 90°. No metallic mineralization was noted in this quartz.

The south shore of Chichagof Harbor is composed of a series
of massive basalt flows, some of which are amygdular, and of course massive basic tuffs consisting of lava fragments in a lava matrix. These beds dip about 45° NE. Some of the basalt beds contain small cubes of iron pyrite, both as scattered grains in the matrix and as bunches along tiny cracks. There are also a good many quartz stringers cutting the basalts, but no metallic minerals were seen in them.
Placer gold was discovered by Louis Herman in the beach about 1\frac{1}{2} miles south of Sand Point post office on Popof Island in the summer of 1904. Active work was in progress during 1904 and 1905, and it is reported that gold amounting in value to about $12,000 was taken from these beach placers in those years. The productive belt was about three-fourths of a mile long. From 20 to 40 men were at work during the summer of 1904 with rockers, washing the coarse sand and gravel. All the gold was found below mid-tide, and most of it around large boulders at about the level of low tide. Little work has been done on this beach since 1905. In 1908 but one man was engaged in rewashing the sand and gravel, and he is reported to have found it unprofitable and finally to have abandoned operations.

During 1908, most of the interest on this island was centered on four lode claims that were staked on the hills immediately adjoining the beach placers. No distinct quartz ledges have been located, but the exposed rock contains some free gold. Specimens in which free gold is plainly visible may be found in the surface zone of oxidation and weathering. This zone varies from 5 to 10 feet in thickness. Several samples taken from the weathered material yielded some free gold when crushed and panned. The owners of this property have had several samples assayed, and values up to $20 a ton were reported as a result of the assays. On the Louis Herman property a short tunnel has been driven and four shafts have been sunk below the zone of surface weathering. Ore samples taken from three openings on this property varied greatly in content of gold; one sample was exceedingly rich. The rock in which this gold occurs is an andesite similar to that in Unga Island, where the Apollo mine is located. The unweathered rock appears as a light gray lava, containing an abundance of small pyrite crystals. In claim adjoining the Louis Herman property one small quartz ledge has been discovered and some development work has been done.

Unga Island

Gold-bearing ledges have been found at a number of places in Unga Island. In the southeastern portion of the island, about 1 mile from the head of Delarof Harbor and 4 miles from the town of Unga, are located the Apollo and Sitka mines. A third mine has been opened on the Shumagin group of claims, near the head of Baralof or Squaw Harbor. Several locations for gold lodes have been made on the ridge south of the Apollo mine, in the valley west of the Shumagin mine, and at points about 2 miles south of Coal Harbor.
Apollo Consolidated mine.—This mine was on a productive basis from 1891 to 1904 and was reopened during the summer of 1908, when 40 of the 60 stamps in the mill were put into operation and ore that had already been mined was run through the mill. The occurrence of gold ore at this locality has been described by Becker and by Martin, who visited it in 1904, gathering some additional data.

The deposit, according to Becker's description, is a reticulated vein or zone of fracture, in a country rock of andesite and dacite. The ores include free gold, pyrite, galena, zinc blende, copper pyrite, and native copper. The ore is free milling, a large part of the gold being carried in the native state. The chief gangue mineral is quartz, but calcite and orthoclase are present in subordinate amounts. The ore body strikes N. 20° E. It is from 5 to 40 feet wide and forms a chute that pitches northward. The chute comes to the surface at the south end of the workings at an elevation of 600 feet, and at the north end it narrows and becomes of low grade at a depth of about 800 feet. Several attempts have been made to reach the ore body at lower levels by shaft and tunnel, and long crosscut tunnels have been driven in prospecting the adjoining areas. In places the ore body was exceedingly rich, carrying up to $50 a ton; the average for the main ore body was perhaps about $3 a ton. The main chute has not been worked out. Some ore has been taken from minor zones of fracture in the crosscut tunnels, but ore has not been found in these zones in sufficient quantities to justify a continuation of the work. The country rock has been mineralized to a certain extent on either side of the main ore body.

Becker concluded that the country rock is Miocene or post-Miocene, because of its lithologic similarity to andesite, which is supposed to overlie the Miocene at the north end of the island. He would, accordingly, make the mineral veins of very recent Tertiary or post-Tertiary age. The present writer believes the post-Miocene andesites at the north end of Unna Island to be distinct in age from the country rock in which the gold ledges occur. The younger andesites cover a portion of the south end of the island and overlie irregularly the gold-bearing formation. The age of the rock in which the gold-bearing ledges occur is not definitely known, but it is believed by the writer to be Mesozoic or older.

Sitka mine.—This mine is located north of the Apollo mine across the valley. The ore body is associated with a shear zone which strikes at right angles to the Apollo ore body. The rock in which this ore occurs is of the same general type as that at the Apollo mine; the ores consist of free gold, galena, zinc blende, and pyrite, and the chief gangue mineral is quartz, with subordinate amounts of calcite. The ore, however, is of low grade, and has never yet paid for the working. Some of the material in the dump was run through the mill during the summer of 1908. The superintendent believes that the ore could now be mined and milled at a profit. This mine is connected by a tramway with the Apollo plant, so that the ore may be handled at the Apollo mill.
Shumagin mine.—The Shumagin claims have been staked out along two ledges which strike N. 60° E. and outcrop in a low ridge one-half mile southwest of the head of Baranof Harbor. The southern ledge is about 50 feet thick, but the ore has not proved sufficiently rich to encourage mining. The other ledge, which varies in width from 2 to 3 feet, is reported to carry values commonly ranging from $.4 to $5 to the ton, and nowhere running below $2. These quartz ledges are in shear zones, and are interrupted by many horses of country rock. The present workings consist of two tunnels, with crosscuts. The lower tunnel, which has been driven 363 feet, passes through the wider quartz ledge, and within a short distance of the second ledge. A crosscut 75 feet long has been made at the end of this tunnel. The upper tunnel is 79 feet long, and a crosscut at the end runs 116 feet to the east and 53 feet to the west along the ore body. The two tunnels are separated in elevation by 150 feet.

Unalaska Island

The island of Unalaska is off the western extremity of Alaska Peninsula, near one of the most frequented routes from the Pacific Ocean to Bering Sea. It is important chiefly on account of its splendid natural harbor, on which are located two coaling and trade stations, Dutch Harbor and Unalaska. Several years ago an unsuccessful attempt was made to develop and mine some gold-bearing quartz veins near the village of Unalaska. A 3-stamp mill and a couple of tramways to connect the mill with the mines were erected, but these are now in a state of ruin. Quartz veins of economic value are reported by prospectors on several of the islands farther west.

The following notes are quoted from a report on this district, made in 1905 by Collier:

"The hard rocks of the islands are volcanic and consist of interbedded tuffs and flows that are cut by numerous dikes. The most common rocks are dark-gray andesites.

"South of Dutch Harbor for several miles the rocks are cut by a system of nearly vertical joint planes which extend approximately east and west. Mineralization has occurred along these joints, and in some instances quartz veins have been formed. Several such quartz veins are exposed in the bluff west of Unalaska, where they have been prospected by short tunnels. The best example, however, is found at the gold mine located 1 1/2 miles south of Unalaska and about a quarter of a mile from the shore of Captains Bay, where a number of small veins of this kind are contained in compact gray andesite. The largest of these forms the main ore body of the mine and has been opened for about 200 feet. It has a maximum width of 6 or 7 feet, but thins out in both directions from the widest part and at the ends of the tunnels is not over 1 or 2 feet wide. The samples obtained here consist of kaolin and cellular quartz heavily stained with iron in the form of limonite. Samples obtained on the dump and around the mill indicate that a considerable portion of the ore originally contained unweathered pyrite and sulphide minerals. A sample taken by the writer from the face of the drift at the principal ore body was assayed by E. E. Burlingame & Co., of Denver, who reported 0.02 ounces of gold to the ton and a trace of silver. It is reported that before the mill was built assays promised very high values, which were not realized from the ore when milled."
Memo:

For file on PUMICE and PUMICITE

see KODIAK PRECINCT - for Mt Katmai deposits

Iliamna Precinct - for Augustine Is. deposits

& also Correspondence files: Roehm, Dahners and

April 30, 1947

MEMORANDUM FOR FILE

ASBESTOS and JADE

The discovery of asbestos and jade deposits in the Anchorage Region has been reported by Mr. W. J. AIRES, Box 211, ANCHORAGE, ALASKA. See his letter dated April 26, 1947.

(Precinct File - KUK PRINCIPAL)
MEMO:

For Alaska Railroad file on CLAY and LIMESTONE deposits in the Rail Belt, SEE: