



STATE OF ALASKA
Department of Natural Resources
Division of Geological Survey

MINES BULLETIN



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IN THIS ISSUE	
CLARIFICATION OF B.L.M. POSITION ON MINING CLAIMS	p. 1
NEW REPORTS ON ALASKAN GEOLOGY	p. 2
NEW MINING CLAIMS	p. 8
METAL MARKET	p. 9

CLARIFICATION OF B.L.M. POSITION ON MINING CLAIMS

Last month, our temporary editor interviewed members of the U. S. Bureau of Land Management in Fairbanks and prepared a brief article concerning mining claims in Native selection areas. The article, which appeared in the April issue of this Bulletin, inferred that after July 1, 1972, the Bureau would commence determining the locations and validities of such claims.

A recent letter from Curtis V. McVee, State Director, U. S. Bureau of Land Management, Anchorage, indicates that this is an "exaggeration." According to him, "...such a program would be extremely time consuming and far beyond the Bureau's foreseeable financial capability." The letter goes on to say that "...mining claimants in areas actually selected by the Natives have five years in which to apply for patent [Section 22(c), Alaska Native Claims Settlement Act]. Under present interpretation, the five year period will commence when the Native group is issued its first or preliminary patent."

McVee stated further that, "We expect that there will be a number of mineral patent applications filed during that period. In order to process them, we expect to hire at least two additional minerals examiners." He emphasized, however, that expectation is a long way from reality, and that the Bureau is "...still in the discussion and planning stage of how to implement the mining claim portions of the ANCSA."

In conclusion, McVee reiterated that "...persons with patented lands, including patented mining claims, are not affected by the act. Claimants with valid rights to lands, including rights under the General Mining Laws, will not lose those rights, provided they continue as required by law. As indicated above, the basic law has in some instances been modified by the ANCSA."

NEW REPORTS ON ALASKAN GEOLOGY

In 1971, the Alaska Geological Survey began publication of a new series known as the Bibliography of Alaskan Geology. This series now consists of six volumes covering the period 1831-1971. The first five volumes were compiled largely from the Bibliography of North American Geology, which is published by the U. S. Geological Survey. The sixth volume was compiled mainly from the Abstracts of North American Geology, published by the U. S. Geological Survey, and from the Bibliography and Index of Geology, published by the Geological Society of America. A seventh volume listing only unpublished U. S. Geological Survey and U. S. Bureau of Mines open-file reports concerning Alaskan geology, 1943-1971, is in preparation. Future volumes of the Bibliography of Alaskan Geology will be compiled largely from the GSA's Bibliography and Index of Geology, because both North American series mentioned above are being discontinued. As of the end of 1972, we plan to publish the Bibliography of Alaskan Geology annually and to include in it pertinent open-file reports. We also invite universities to notify us of the preparation and (or) availability of theses and dissertations on Alaskan geology that could or should be included in the series.

The first six volumes of the Bibliography of Alaskan Geology contain nearly 4,000 entries, which are indexed by subject according to six arbitrary geographic regions of the State (Arctic, Interior, South-central, Southeastern, Southwestern, and Western Alaska). The new series constitutes the most complete, up-to-date, and convenient indexed listing of known published reports, articles, and maps concerning earth science in Alaska, including geophysics and geochemistry as well as geology. THE first four volumes have been published and are available for immediate distribution. The last two volumes are in press and should be available for sale during the summer of 1972. Meanwhile, Xerox copies are available for use at the College and Anchorage offices of the Alaska Geological Survey and at the library of the Geophysical Institute on the University of Alaska campus at College. The first six volumes of the series are as follows:

Fritts, C. E.; Brown, M. E., 1971, Bibliography of Alaskan Geology, 1831-1918: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 88 p. (750 entries) [\$1.00]

Fritts, C. E.; Brown, M. E., 1971, Bibliography of Alaskan Geology, 1919-1949: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 92 p. (670 entries) [\$1.00]

Fritts, C. E.; Brown, M. E., 1971, Bibliography of Alaskan Geology, 1950-1959: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 83 p. (599 entries) [\$1.00]

Fritts, C. E.; Brown, M. E., 1971, Bibliography of Alaskan Geology, 1960-1964: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 81 p. (616 entries) [\$1.00]

Fritts, C. E.; Tuell, E. J., 1972, Bibliography of Alaskan Geology, 1965-1968: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 112 p. (761 entries) [In press]

Fritts, C. E.; Zesiger, E. A.; Tuell, E. J.; Brown, M. E., 1972, Bibliography of Alaskan Geology, 1969-1971: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 94 p. (593 entries) [In press]

The style of entry shown here is similar to that adopted in the new series. In future issues of this Bulletin, we hope to list all new reports on Alaskan geology in a similar manner, so that interested readers may add the new entries to the bibliographic series, thereby keeping it current. At the end of each year

Wershall list the entries in alphabetical order by author or senior author and index them in an annual volume. In accordance with this plan, appropriate open-file reports released by the U. S. Geological Survey since January 1, 1972, are listed below:

Cobb, E. H., 1972, Placer deposits of Alaska: U. S. Geol. Survey, Alaskan open-file rept. 508, 132 p., 55 figs., 1 pl.

Grantz, Arthur; Rama, W. F.; Wallace, S. L., 1972, Chukchi Sea seismic reflection and magnetic profiles, 1971, between northern Alaska and Herald Island: U. S. Geol. Survey, Alaskan open-file rept. 507, 38 sheets seismic profiles, 2 sheets magnetic profiles, 2 loc. maps, 1 index map (USGS Chukchi Sea seismic reflection and magnetic data, 1969-1971)

Lemke, R. W.; Yehle, L. A., 1972, Reconnaissance engineering geology of the Haines area, Alaska, with emphasis on evaluation of earthquake and other geologic hazards: U. S. Geol. Survey, Alaskan open-file rept. 515, 109 p., 13 figs., 5 tables, 2 pls. (scale 1:24,000)

Lemke, R. W.; Yehle, L. A., 1972, Regional and other general factors bearing on evaluation of earthquake and other geologic hazards to coastal communities of southeastern Alaska: U. S. Geol. Survey, Alaskan open-file rept. 516, 99 p., 10 figs.

Miller, R. D., 1972, Surficial geology of the Juneau urban area and vicinity, Alaska, with emphasis on earthquake and other geologic hazards: U. S. Geol. Survey, Alaskan open-file rept. 517, 108 p., 10 figs., 7 tables, 1 large tabular text (2 sheets), 1 geol. map (2 sheets, 3 overlays)

Richter, D. H., 1972, Reconnaissance geologic map of the Nabesna A-4 quadrangle, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 509, 1 sheet (map, expl., cross sections)

Sainsbury, C. L.; Smith, T. E.; Kachadoorian, Reuben, 1972, Reconnaissance geologic map of the Nome D-3 quadrangle, Seward Peninsula, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 514, 14 p., 1 pl. (scale 1:63,360)

Sainsbury, C. L.; Hudson, Travis; Ewing, Rodney; Marsh, W. R., 1972, Reconnaissance geologic map of the Nome C-2 quadrangle, Seward Peninsula, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 506, 13 p., 1 sheet (scale 1:63,360)

Sainsbury, C. L.; Hudson, Travis; Ewing, Rodney; Marsh, W. R., 1972, Reconnaissance geologic map of the Nome C-3 quadrangle, Seward Peninsula, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 510, 9 p., 1 pl. (scale 1:63,360)

Sainsbury, C. L.; Hudson, Travis; Ewing, Rodney; Marsh, W. R., 1972, Reconnaissance geologic maps of the Solomon D-5 and C-5 quadrangles, Seward Peninsula, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 511, 12 p., 2 pl. (geol. maps, scale 1:63,360)

Sainsbury, C. L.; Hudson, Travis; Ewing, Rodney; Richards, Thomas, 1972, Reconnaissance geologic map of the Solomon D-6 quadrangle, Seward Peninsula, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 512, 17 p., 1 pl. (scale 1:63,360)

Schmoll, H. R.; Dobrovolny, Ernest, 1972, Generalized geologic map of Anchorage and vicinity, greater Anchorage area borough, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 513, 1 sheet (scale 1:24,000)

Schmoll, H. R.; Dobrovolny, Ernest, 1972, Slope map of Anchorage and vicinity, greater Anchorage area borough, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 518, 1 sheet (scale 1:24,000)

U. S. Geological Survey, 1972, Aeromagnetic data from S.W. Naval Petroleum Reserve, Alaska: U. S. Geol. Survey, Alaskan open-file rept. 505, 4 sheets (3 at scale 1:250,000; 1 at scale 1:63,360)

We also are including in this issue entries for 47 of 202 aeromagnetic maps recently published by the State. The maps included here cover the eastern part of the East Alaska Range aeromagnetic mapping project undertaken by the Alaska Geological Survey during the summer of 1971. The maps listed below are 15- by 30-minute quadrangles that cover most of the Nabesna and all of the Tanacross 1- by 3-degree quadrangles. The Nabesna maps were released for sale December 21, 1971. The Tanacross maps were released for sale February 9, 1972, along with 42 other maps that cover parts of the Fairbanks, Gulkana, Healy and Mt. Hayes 1- by 3-degree quadrangles. The latter 42 maps will be listed individually in the next issue of this Bulletin. Subsequent issues will contain lists of aeromagnetic maps that are products of similar projects undertaken by the State on the Seward Peninsula and in the Goodnews area. The Nabesna and Tanacross maps are as follows:

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Nabesna (A-1) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Nabesna (A-2) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Nabesna (A-3) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Nabesna (A-4) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, [northern] Nabesna (A-5) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Nabesna (B-1) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Nabesna (B-2) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Nabesna (B-3) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (C-2) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (C-3) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (C-4) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (C-5) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (C-6) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (D-1) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (D-2) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (D-3) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (D-4) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (D-5) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey, 1972, Aeromagnetic survey, east Alaska Range, Tanacross (D-6) quadrangle, Alaska: Alaska, Dept. Nat. Resources, Div. Geol. Survey, 1 aeromag. map (scale 1:63,360)

Alaska Geological Survey reports may be purchased or inspected at:

Maintenance Building, Univ. Alaska, Box 80007, COLLEGE, Ak. 99701
323 East Fourth Avenue, ANCHORAGE, Ak. 99501
Room 509, Goldstein Building, Pouch M, JUNEAU, Ak. 99801
Room 312, 306 Main Street, Box 2438, KETCHIKAN, Ak. 99901

U. S. Geological Survey Alaskan open-file reports usually are available as follows:
Purchase: Ak. Min. Res. Branch, 345 Middlefield Road, MENLO PARK, Calif. 94025
Inspection: Room 108, Skyline Building, 508 Second Avenue, ANCHORAGE, Ak. 99501
Room 402, Brooks Building, Univ. Alaska, COLLEGE, Ak. 99701
Room 441, Federal Building, JUNEAU, Ak. 99801
Alaska Geological Survey offices listed above

NEW MINING CLAIMS

<u>NUMBER OF CLAIMS</u>	<u>CREEK OR AREA</u>	<u>QUADRANGLE</u>	<u>DATE NOTICE POSTED</u>
1	Douglas River	Afognak	Dec. 1971
4	Alfred Creek	Anchorage	Feb. 1972
3	Pass Creek	Anchorage	Feb. 1972
2	Knik River	Anchorage	Jan. 1972
5	Birch Creek	Circle	Nov. 1971
8	Butte Creek	Circle	Feb. 1972
14	Arcana Creek	Dillingham	Oct. 1971
8	Carter Creek	Goodnews	Dec. 1971
1	North Spit	Goodnews	Dec. 1971
2	Ben French Creek	Gulkana	Feb. 1972
4	Valdez Creek	Healy	Feb. 1972
5	White Creek	Healy	Jan. 1972
17	Bryn Mawr Creek	Healy	Jan. 1972
1	Sec. 4, 5, 6, & 7, T9S, R29W, SM	Iliamna	Dec. 1971
1	Sec. 4, 5, 8, & 9, T13S, R33W, SM	Iliamna	Dec. 1971
1	Sec. 1, 2, 3, & 4, T10S, R25W, SM	Iliamna	Dec. 1971
1	Sec. 6, 7, 18, & 19, T2N, R20W, SM	Kenai	Dec. 1971
1	Kotzebue Sound	Kotzebue	Mar. 1972
44	Shorty Creek	Livengood	Jan. 1972
11	SW of Money Knob	Livengood	Oct. 1971
1	Big Bend Creek	McCarthy	Feb. 1972
1	Sec. 2 & 3, T33N, R7W, PM	Misheguk Mtn.	Dec. 1971
2	Little Clearwater	Mt. Hayes	Feb. 1972
6	Flat Creek	Mt. McKinley	Aug. 1971
3	Stampede Creek	Mt. McKinley	Jan. 1972
1	Sec. 33, T9S, R13W, SM	Seldovia	Jan. 1972
1	Sec. 20 & 21, T10S, R13W, SM	Seldovia	Jan. 1972
2	Porcupine Creek	Seward	Mar. 1972
10	Palmer Creek	Seward	Mar. 1972
2	Groundhog Creek	Seward	Mar. 1972
2	Lynx Creek	Seward	Mar. 1972
2	Frenchy Creek	Seward	Mar. 1972
1	Canyon Creek	Seward	Mar. 1972
2	Sixmile Creek	Seward	Mar. 1972
84	Holitna River	Sleetmute	Oct. 1971
4	Peters Creek	Talkeetna	Mar. 1972
4	Windy Creek	Talkeetna	Mar. 1972
1	Gold Creek	Talkeetna	Mar. 1972
3	Nugget Creek	Talkeetna	Mar. 1972
5	Short Creek	Talkeetna	Mar. 1972
4	Columbia Creek	Talkeetna	Mar. 1972
6	Coal Creek	Talkeetna	Mar. 1972

NEW MINING CLAIMS

<u>NUMBER OF CLAIMS</u>	<u>CREEK OR AREA</u>	<u>QUADRANGLE</u>	<u>DATE NOTICE POSTED</u>
8	Albert Creek	Talkeetna Mtns.	Feb. 1972
9	Iron Creek	Talkeetna Mtns.	Sept. 1971
3	Susitna River	Talkeetna Mtns.	Feb. 1972
3	Crooked Creek	Talkeetna Mtns.	Feb. 1972
3	North Creek	Talkeetna Mtns.	Feb. 1972
9	Woodchopper Creek	Tanana	Nov. 1971
2	Bean Ridge	Tanana	Nov. 1971
1	Hammond River	Wiseman	Oct. 1971
4	Wiseman Creek	Wiseman	Dec. 1971
1	Bull Run Creek	Wiseman	Aug. 1971

METAL MARKET

<u>Metals</u>	<u>April 29, 1972</u>	<u>Month Ago</u>	<u>Year Ago</u>
Antimony ore, stu equivalent European ore	<u>\$7.03-8.16</u>	<u>\$7.03-8.16</u>	<u>\$11.34-14.06</u>
Barite (drilling mud grade per ton)	<u>\$18-22</u>	<u>\$18-22</u>	<u>\$17-20</u>
Beryllium powder, 98%, per lb.	<u>\$54-66</u>	<u>\$54-66</u>	<u>\$54-66</u>
Chrome ore per long ton	<u>\$24-27</u>	<u>\$25-27</u>	<u>\$25-27</u>
Copper per lb.	<u>52.57¢</u>	<u>52.57¢</u>	<u>56.6¢</u>
Gold per oz.	<u>\$49.68</u>	<u>\$48.67</u>	<u>\$39.24</u>
Lead per lb.	<u>15.6¢</u>	<u>15.5¢</u>	<u>13.5¢</u>
Mercury per 76# flask	<u>\$159</u>	<u>\$186</u>	<u>\$307-310</u>
Molybdenum conc. per lb.	<u>\$1.72</u>	<u>\$1.72</u>	<u>\$1.72</u>
Nickel per lb.	<u>\$1.33</u>	<u>\$1.33</u>	<u>\$1.33</u>
Platinum per oz.	<u>\$110.21</u>	<u>\$110-120</u>	<u>\$120-125</u>
Silver, New York, per oz.	<u>155.42¢</u>	<u>154¢</u>	<u>173.3¢</u>
Tin per lb.	<u>181.5¢</u>	<u>178.2¢</u>	<u>169.5¢</u>
Titanium ore per ton (Ilmenite)	<u>\$30-35</u>	<u>\$30-35</u>	<u>\$30-35</u>
Tungsten per unit	<u>\$55.00</u>	<u>\$55.00</u>	<u>\$55.00</u>
Zinc per lb.	<u>17.7¢</u>	<u>17.0¢</u>	<u>15.5¢</u>

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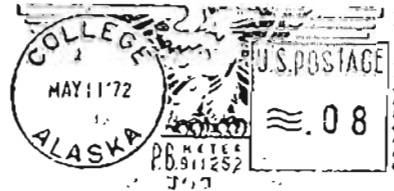
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