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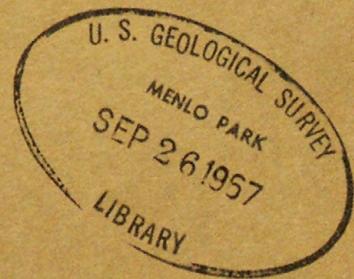
GEOLOGICAL SURVEY

[REPORTS - OPEN FILE SERIES]>

Metallic mineral resources map of the Livengood  
Quadrangle, Alaska.

Compiled by

Edward H. Cobb



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GEOLOGICAL SURVEY

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METALLIC MINERAL RESOURCES MAP OF THE LIVENGOOD QUADRANGLE, ALASKA

Compiled by

Edward H. Cobb

Open-file map

1967

This map is preliminary  
and has not been edited or  
reviewed for conformity with  
Geological Survey standards  
or nomenclature.



## LODE DEPOSITS

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
1	Sawtooth Mountain: Joesting (1943), p. 16	<u>Sb</u>
2	Lillian Creek: Joesting (1942), p. 14; Foster and Chapman (1967), table 1 Ruth Creek: Mertie (1918a), p. 273-274; Overbeck (1920), p. 183; Joesting (1943), p. 16; Foster and Chapman (1967), table 1	<u>Sb</u> , <u>Au</u> , <u>Hg</u>
3	Olive Creek(Hudson): Joesting (1942), p. 26; Foster and Chapman (1967), table 1	<u>Sb</u> , <u>Cr</u> , <u>Au</u> , <u>Ni</u> , <u>Ag</u>
4	Livengood Creek: Joesting (1942), p. 14	<u>Hg</u>
5	Parker: Foster and Chapman (1967), table 1	<u>Sb</u>
6	Treasure Creek: Smith (1913), p. 196	<u>Cr</u> , <u>Ni</u>
7	Hoel Bros., Johnson & Witmer: Smith (1913), p. 196	<u>Au</u>
8	Thrift: Smith (1913), p. 196	<u>Au</u>
9	Frederick: Smith (1913), p. 194-196; Hill (1933), p. 80-81	<u>Sb</u> , <u>Au</u>
10	Gilmer: Brooks (1916c), p. 29-30; Joesting (1942), p. 8, 10	<u>Sb</u> , <u>Au</u> , <u>Ag</u>
11	Mother Lode: Smith (1913), p. 194	<u>Cu</u>
12	Woods: Chapman and Foster (1967), table 1	<u>Sb</u> , <u>Au</u> , <u>Pb</u>
13	Alaska Flyer: Smith (1913), p. 194	<u>Au</u>
14	Old Glory (Leslie): Byers (1957), p. 209-210	<u>W</u>
15	Seattle Creek: Joesting (1943), p. 23	<u>W</u>
16	Busty Belle: Chapman and Foster (1967), table 1  Freeman & Scharf: Smith (1913), p. 198; Chapman and Foster (1967), table 1 Silvertone: Chapman and Foster (1967), table 1	<u>Au</u> , <u>Pb</u> , <u>Mo(?)</u> , <u>Ag</u> , <u>W</u> <u>Au</u> , <u>Pb</u> , <u>Ag</u> <u>Sb</u> , <u>Au</u> , <u>Pb</u> , <u>Ag</u>

1/ Symbols - Sb, antimony; Cr, chromite; Cu, copper; Au, gold; Pb, lead; Hg, mercury; Mo, molybdenum; Ni, nickel; Ag, silver; W, tungsten.

2/ Symbol underlined indicates recorded production.

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
17	Spruce Creek: Smith (1913), p. 190	Au
18	Markovich: Hill (1933), p. 83; Joesting (1943), p. 9	<u>Sb</u> , Au
19-20	Soo (Reliance): Smith (1913), p. 190-194; Hill (1933), p. 68-70, 77-80; Joesting (1943), p. 9	<u>Sb</u> , <u>Au</u> , Ag
21	Rowley-Schummeff (Nightingale): Smith (1913), p. 198; Chapman and Foster (1967), table 1	Sb, Pb, Ag
22	Hoover (Birch & Anderson): Hill (1933), p. 119-120	Sb, <u>Au</u>
23	Dome View: Hill (1933), p. 83-84	Au
24	Hidden Treasure: Chapin (1914a), p. 342-343 Thompson: Chapin (1914a), p. 342	<u>Au</u> <u>Au</u>
25	Mohawk (Heilig & Creighton): Smith (1913), p. 190; Mertie (1918b), p. 407; Hill (1933), p. 82	Sb, <u>Au</u>
26	Burnet Galena: Chapin (1914a), p. 349-350; Hill (1933), p. 118 David (Apex): Hill (1933), p. 115-116 Goepfert: Smith (1913), p. 201-202 Goepfert Galena: Smith (1913), p. 202 North Star: Hill (1933), p. 116-117 North Star Extension (Center Star): Hill (1933), p. 116-118 Rainbow: Smith (1913), p. 198-200; Hill (1933), p. 74, 115 S.S.: Smith (1913), p. 202-203 Thompson & Burns: Hill (1933), p. 118 Whitman & Murray: Brooks (1911), p. 35	Sb, Pb, Ag <u>Au</u> <u>Au</u> <u>Pb</u> Sb, <u>Au</u> <u>Au</u> <u>Au</u> , Pb, W, Zn <u>Au</u> <u>Au</u> <u>Au</u> <u>Au</u>
27	Egan: Byers (1957), p. 210 Zimmerman (Twin Creek): Hill (1933), p. 118-119	W <u>Au</u>
28	Burnet: Chapin (1914a), p. 349 Independence: Hill (1933), p. 114-115; Chapman and Foster (1967), table 1	Au <u>Au</u> , Pb
29	Hirschberger & Zimmerman: Brooks (1912), p. 32 Moonlight: Hill (1933), p. 114 Zimmerman: Smith (1913), p. 201	<u>Au</u> <u>Au</u> Au, Ag

1/ Symbols - Sb, antimony; Au, gold; Pb, lead; Ag, silver; W, tungsten; Zn, zinc.

2/ Symbol underlined indicates recorded production.

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
30	White Elephant: Chapin (1914a), p. 348; Hill (1933), p. 114; Chapman and Foster (1967), table 1	<u>Pb</u> , <u>Ag</u>
31	Pinnacle (Cheyenne): Smith (1913), p. 182-183; Chapman and Foster (1967), table 1 Emma (Katherine): Hill (1933), p. 90-91; Chapman and Foster (1967), table 1	<u>Sb</u> , <u>Au</u> , <u>Pb</u> <u>Au</u>
32	Jackson: Chapin (1914a), p. 338-339; Hill (1933), p. 92- 93 Wackwitz (Cleary Summit): Chapman and Foster (1967), table 1	<u>Sb</u> , <u>Au</u> , <u>Pb</u> , <u>Ag</u> <u>Sb</u> , <u>Au</u> , <u>Pb</u> , <u>Ag</u> , <u>Zn</u>
33	Chechako No. 1 (Eldorado) (Westonvich): Hill (1933), p. 89-96 Moore-Sheldon: Chapman and Foster (1967), table 1 Mother Lode: Brooks (1916c), p. 32-33 Newsboy: Hill (1933), p. 63, 85-89 Steil: Smith (1913), p. 187	<u>Sb</u> , <u>Au</u> , <u>Pb</u> , <u>Ag</u> , <u>Zn</u> <u>Sb</u> <u>Sb</u> , <u>Au</u> <u>Sb</u> , <u>Cu</u> , <u>Au</u> , <u>Zn</u> <u>Sb</u> , <u>Au</u>
34	Herschberger, Beall & Phipps: Brooks (1911), p. 34 Johnson: Byers (1957), p. 210; Joesting (1943), p. 7 Tolovana: Smith (1913), p. 183-185; Hill (1933), p. 91- 92; Byers (1957), p. 210	<u>Au</u> <u>Sb</u> , <u>W</u> <u>Sb</u> , <u>Au</u> , <u>Ag</u> , <u>W</u>
35	Cleary Hill (Rhoads-Hall): Smith (1913), p. 177-182; Brooks (1916c), p. 34-35; Hill (1933), p. 93-96; Byers (1957), p. 208-209 Wackwitz (Wyoming): Smith (1913), p. 181; Moffit (1927), p. 12; Hill (1933), p. 96-98; Byers (1957), p. 206-208	<u>Sb</u> , <u>Cu</u> , <u>Au</u> , <u>Pb</u> , <u>Sn</u> , <u>W</u> , <u>Zn</u> <u>Sb</u> , <u>Au</u> , <u>W</u>
36	Cunningham: Smith (1913), p. 182 Sunrise: Chapin (1914a), p. 337	<u>Sb</u> , <u>Au</u> <u>Sb</u>
37	Bobbie: Smith (1913), p. 177; Brooks (1916c), p. 35 Butler & Petree (B.P.): Smith (1913), p. 176-177; Hill (1933), p. 98	<u>Sb</u> , <u>Pb</u> , <u>Ag</u> <u>Sb</u> , <u>Au</u> , <u>Pb</u> , <u>Zn</u>
38	Alaska (Jupiter-Mars): Smith (1913), p. 175; Hill (1933), p. 99-100 Empire (New York): Chapin (1914a), p. 337; Hill (1933), p. 75 Mary: Hill (1933), p. 100 Pioneer: Smith (1913), p. 173-174; Hill (1933), p. 75, 99	<u>Au</u> <u>Au</u> <u>Pb</u> , <u>Ag</u> <u>Sb</u> , <u>Au</u> , <u>Zn</u>

1/ Symbols - Sb, antimony; Cu, copper; Au, gold; Pb, lead; Ag, silver; Sn, tin;  
W, tungsten; Zn, zinc.

2/ Symbol underlined indicates recorded production.

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
39	Sky High: Smith (1913), p. 175 Vetter: Chapman and Foster (1967), table 1	Au Sb, Cu, <u>Au</u> , Pb, Ag, Zn
40	Chatham: Smith (1913), p. 172-173; Brooks (1916c), p. 35-36; Hill (1933), p. 100-101; Joesting (1943), p. 8-9 Harris & Brown: Smith (1913), p. 175-176 Quemboe Bros.: Smith (1913), p. 171-172	<u>Sb</u> , <u>Au</u> <u>Sb</u> <u>Sb</u> , Au
41	Banner: Smith (1913), p. 171 Homestake (Keystone) (Rexall): Smith (1913), p. 168, 170-171; Chapin (1914a), p. 331-335; Hill (1933), p. 101-102; Killeen and Mertie (1951), p. 14; Chapman and Foster (1967), table 1  Solomon: Killeen and Mertie (1951), p. 33	Au  <u>Sb</u> , Cu, <u>Au</u> , Pb, <u>Ag</u> , <u>Zn</u> <u>Sb</u>
42	McCarty (Henry Ford): Smith (1913), p. 164; Hill (1933), p. 104-106; Killeen and Mertie (1951), p. 14, 35 McCarty (Pioneer): Smith (1913), p. 164-167; Hill (1933), p. 102-103; Joesting (1942), p. 10	<u>Sb</u> , <u>Au</u> <u>Sb</u> , <u>Au</u> , Pb, Zn
43	Branholm-Jenkins (McNeil): Hill (1933), p. 104; Killeen and Mertie (1951), p. 14, 37	<u>Sb</u> , Pb
44	Gilmore: Hill (1933), p. 108 Kellen: Smith (1913), p. 163-164 Mizpah: Smith (1913), p. 162; Mertie (1918b), p. 405- 406; Hill (1933), p. 107; Killeen and Mertie (1951), p. 14; Byers (1957), p. 208 Ohio: Smith (1913), p. 162-163; Mertie (1918b), p. 408- 409; Hill (1933), p. 107-108 Perrault: Chapin (1914a), p. 329	Au Sb, Au  <u>Sb</u> , <u>Au</u> , Pb, Mn, W <u>Sb</u> , <u>Au</u> , Pb, Ag Sb, Au, Ag
45	Excelsior: Smith (1913), p. 161-162 Governor: Smith (1913), p. 160 Whitehorse (Too Much Gold Creek): Smith (1913), p. 160; Hill (1933), p. 104; Killeen and Mertie (1951), p. 36- 37	<u>Sb</u> , Au, Pb, Ag Au  <u>Sb</u> , <u>Au</u> , Pb
46	Fairbanks Creek: Smith (1913), p. 163	Au, Ag
<u>1/</u>	Symbols - Sb, antimony; Cu, copper; Au, gold; Pb, lead; Mn, manganese; Ag, silver; W, tungsten; Zn, zinc.	
<u>2/</u>	Symbol underlined indicates recorded production.	

<u>Number</u>	<u>Name and Principal reference(s)</u>	<u>Commodity</u>
47	Hi-Yu (Crites & Feldman) (Nars, Anderson & Gibbs): Smith (1913), p. 156-159; Hill (1933), p. 63, 70, 108-113; Killeen and Mertie (1951), p. 14 Rob & Roy: Brooks (1916c), p. 37-38; Martin (1920), p. 39 Saucy: Brooks (1916c), p. 37-38 Wolf: Brooks (1916c), p. 37-38	<u>Sb</u> , <u>Au</u> , Pb, Ag, Zn
		<u>Sb</u> , <u>Au</u>
		<u>Sb</u> , <u>Au</u>
48	McCarty (Alder Creek): Smith (1913), p. 156; Brooks (1916a), p. 60	<u>Au</u>
49	Eureka: Smith (1913), p. 156	<u>Au</u>
50	Charles: Smith (1913), p. 156	<u>Au</u>
51	Egan & Egan: Hill (1933), p. 155	<u>Au</u>
52	Coffee Dome: Chapman and Foster (1967), table 1	<u>Au</u> , <u>Pb</u> , <u>Ag</u>
<u>1/</u>	Symbols - Sb, antimony; Au, gold; Pb, lead; Ag, silver; Zn, zinc.	
<u>2/</u>	Symbol underlined indicates recorded production.	

## PLACER DEPOSITS

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity 1/, 2/</u>
53	Dawson Creek: Mertie (1934), p. 180 Hunter Creek: Mertie (1934), p. 165, 177-181; Waters (1934), p. 232	Au Cu, Au, Pb, Hg, Sn
54	Idaho Bar: Mertie (1934), p. 183-184; Waters (1934), p. 234-235	Au
55	Quail Creek: Mertie (1934), p. 189-191	Au
56	Quail Creek: Mertie (1934), p. 189-191, Waters (1934), p. 235	Au, Hg, Sn, W
57	Gunnison Creek: Mertie (1934), p. 192; Waters (1934), p. 235-236 Troublesome Creek: Mertie (1934), p. 192; Waters (1934), p. 236	Au, W Au, Hg, Pb, Sn
58	Troublesome Creek: Prindle and Katz (1913), p. 146; Mertie (1934), p. 192	Au
59	Willow Creek: Smith (1926), p. 14	Au
60	Franklin Creek: Brooks (1916b), p. 208 Livengood Creek: Mertie (1918a), p. 259-268; Overbeck (1920), p. 178-181, 183; Joesting (1942), p. 14, 17, 34, 39 Myrtle Creek: Brooks (1918), p. 56	Au Sb, Cr, Au, Hg, Sn, W Au
61	Ruth Creek: Brooks (1918), p. 22; Mertie (1918a), p. 269-271, 273-274; Overbeck (1920), p. 183; Joesting (1942), p. 17, 26, 39; Wedow, Killeen, and others (1954), p. 11	Sb, Cr, Au, Hg, Mz, W
62	Lillian Creek: Mertie (1918a), p. 270-271; Overbeck (1920), p. 181-183; Joesting (1942), p. 14, 26, 39	Sb, Cr, Au, Hg, W
63	Glen Gulch: Mertie (1918a), p. 269	Au
64	Lucille Creek: Smith (1936), p. 40; Joesting (1942), p. 17	Cr, Au
1/	Symbols - Sb, antimony; Cr, chromite; Cu, copper; Au, gold; Pb, lead; Hg, mercury; Mz, monazite; Sn, tin; W, tungsten.	
2/	Gold has been produced from most of the listed placers.	

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u>
65	Amy Creek: Overbeck (1920), p. 181, 184; Joesting (1942), p. 14, 17	Sb, Cr, Au
66-67	Goodluck (Lucky) Creek: Smith (1941), p. 49; Joesting (1942), p. 17; Wedow, White, and others (1954), p. 2-3	Cr, Au, Hg, RE, FM, Sn
68	Olive Creek: Mertie (1918a), p. 271-272, 274; Overbeck (1920), p. 182-183; Joesting (1942), p. 17, 26, 39	Cr, Au, Hg, W
69	Ester Creek: Mertie (1918a), p. 271-272; Smith (1932), p. 36	Au, Hg
70	Steel Creek: Joesting (1943), p. 20	W
71	Wilbur Creek: Smith (1942), p. 46	Au
72	Gertrude Creek: Mertie (1918a), p. 269	Au
73-74	Our Creek: Prindle and Katz (1913), p. 101-102	Au
75-79	Treasure Creek: Prindle and Katz (1913), p. 101; Brooks (1914), p. 68; Chapin (1914b), p. 358 Vault Creek: Prindle (1908), p. 29, 43-44; Prindle and Katz (1913), p. 101 Wildcat Creek: Prindle and Katz (1913), p. 101; Brooks (1916a), p. 59	Au Au Au
80-81	Dome Creek: Prindle and Katz (1913), p. 100-101; Joesting (1942), p. 32, 37; Joesting (1943), p. 20, 28; Byers (1957), p. 188, 210	Au, Sn, W
82-83	Little Eldorado (Eldorado) Creek: Prindle and Katz (1909), p. 188, 190-191; Johnson (1910), p. 246; Byers (1957), p. 188, 210	Au, Sn, W
84	Bedrock Creek: Joesting (1942), p. 32, 37; Byers (1957), p. 188, 210 Chathanika River: Prindle and Katz (1909), p. 190-191; Smith (1942), p. 39 Chatham Creek: Prindle (1910), p. 226; Joesting (1942), p. 10-11, 32, 37; Joesting (1943), p. 9 Cleary Creek: Prindle (1906), p. 111, 119; Joesting (1942), p. 8, 10, 32, 37 Wolf Creek: Prindle (1908), p. 41-42	Au, Sn, W Au Sb, Au, Sn, W Sb, Au, Sn, W Au

1/ Symbols - Sb, antimony; Cr, chromite; FM, fissionable materials (other than monazite); Au, gold; Hg, mercury; RE, rare-earth metals (other than monazite); Sn, tin; W, tungsten.

2/ Gold has been produced from most of the listed placers.

<u>Number</u>	<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
85	Pedro Creek: Prindle (1906), p. 111, 118; Joesting (1942), p. 32 Steamboat Pup: Brooks (1916a), p. 59 Twin Creek: Prindle and Katz (1909), p. 188, 192	Au, Sn Au Au, Sn
86	Fish Creek: Prindle and Katz (1913), p. 102-103; Joesting (1942), p. 11, 32; Wedow, White, and others (1954), p. 1, 3	Sb, Bi, Au, Sn, W
87	Alder Creek: Chapin (1914b), p. 359; Smith (1942), p. 39 Crane Gulch: Prindle and Katz (1913), p. 112-113 Deep Creek: Chapin (1914b), p. 359 Fairbanks Creek: Prindle and Katz (1913), p. 102; Joesting (1942), p. 11, 32, 37, 40; Byers (1957), p. 188, 210-211 Walnut Creek: Prindle and Katz (1913), p. 101; Ellsworth and Davenport (1913), p. 207-208	Au Au Au Sb, Au, Sn, W Au
88	Kokomo Creek: Brooks (1923), p. 6, 29; Smith (1942), p. 39	Au
89	Nome Creek: Ellsworth and Parker (1911), p. 165; Ellsworth (1912), p. 243-244 Ophir Creek: Ellsworth and Parker (1911), p. 165; Martin (1920), p. 38	Au Au

Placer deposits not shown on map because occurrences could not be located closely enough to plot:

<u>Name and principal reference(s)</u>	<u>Commodity</u> <u>1/</u> , <u>2/</u>
Hess Creek: Brooks (1916b), p. 201, 208	Au
Hess Creek, South Fork: Mertie (1918a), p. 259, 272-273	Au
Tolovana River: Smith (1934), p. 34	Au

1/ Symbols - Sb, antimony; Bi, bismuth; Au, gold; Sn, tin; W, tungsten.

2/ Gold has been produced from most of the listed placers.

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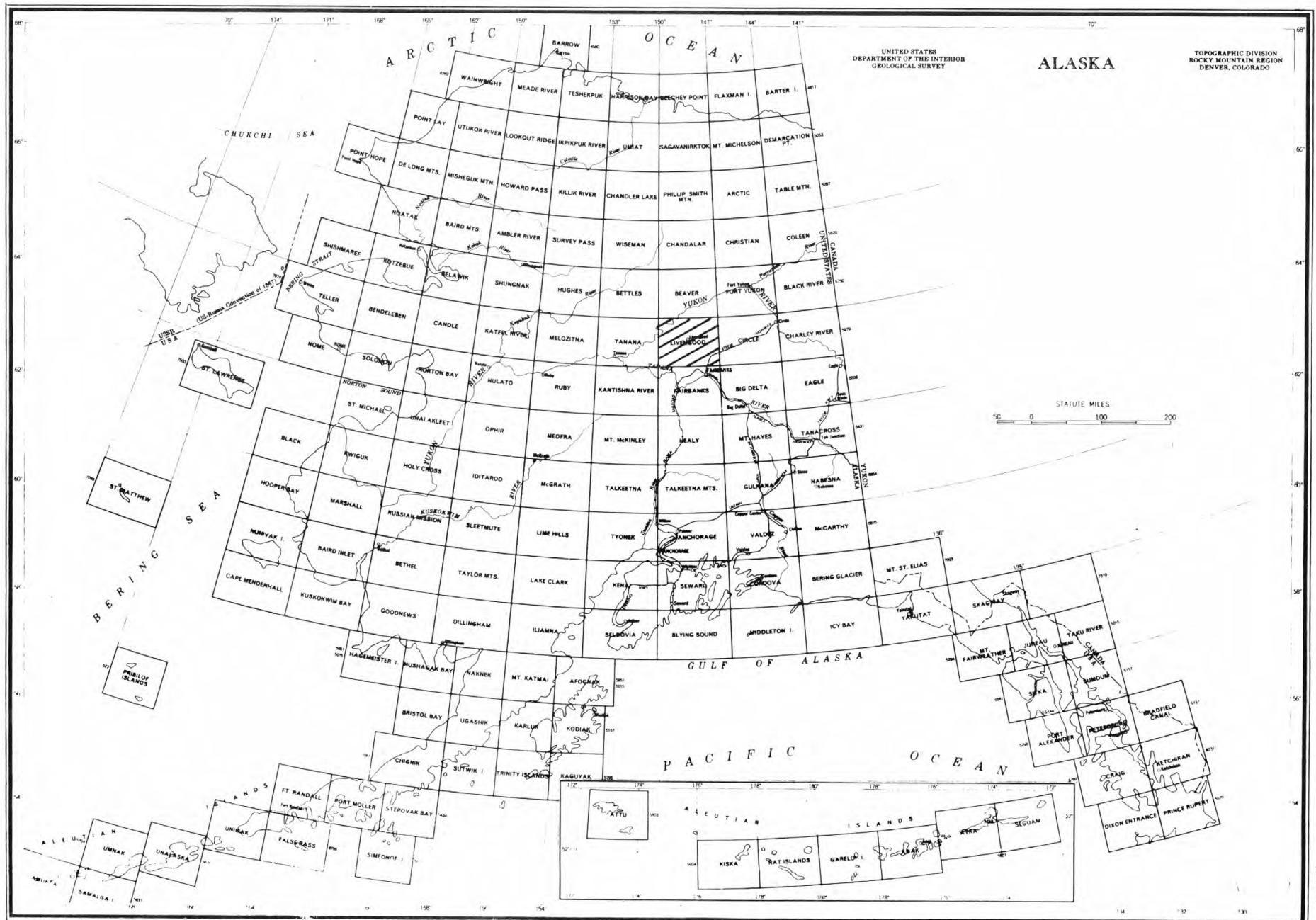
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#### SOURCES OF DATA ON DISTRIBUTION OF IGNEOUS ROCKS

Lathram, E. H., material assembled for compiling a geologic map of east-central Alaska.

Inadequate data for most of drainage basins of Hess and Victoria Creeks.



Index map showing location of the Livengood quadrangle.



