ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS

ALASKA'S MINERAL RESOURCES - 2015

MISCELLANEOUS PUBLICATION 159
FREEMAN, 2016

SELECTED MINERAL PROSPECTS AND OCCURRENCES

ID	Grid	Name	Commodities
64	C14	ACH Claims	Cu
65	F15	Ahtell-Slana District (Grubstake, Jolly Green)	Pb, Cu, Ag, Au
66	G10	Ako, Luna, Gold Creek, Little Swift	Au
67	H18	Alaska-Juneau*†	Au, Ag, Pb, Zn
68	G13	Alaska Oracle, Gilpatrick†	Au
69	I10	Alaska Sands (Port Heiden)	Fe, Ti, Au
70	I12	Amok	Au
71	E14	Anderson Mountain	Cu, Pb, Zn, Ag
72	C12	Ann, Buzz	Pb, Zn, Ag
73	H17	Apex-El Nido*†	Au, Ag, Cu, Pb, W
74	F10	Arnold, Kako	Au, As
75	C10	Avan	Cr, PGE
76	C11	Baird Mountain	Zn, Pb, Ag
77	F15	Baultoff*	Cu, Mo
78	C15	Bear Mountain	Mo, W
79	E12	Beaver Creek	Ag, Pb, Zn
80	G15	Bering River*	Coal
81	G12	Big Chunk	Cu, Au
82	D14	Big Windy (Furs)	W
83	F15	Binocular	Ag, Cu
84	E10	Bluff*	Au
85	K4	Boat Harbor	Au, Ag, Cu, Zn
86	H17	Bohemia Basin (Yakobi Island)*	Ni, Cu
87	G12	Bonanza Hills	Ag, Cu, Pb, Au
88	E10	Boulder Creek (Death Valley)*	U
89	F12	Bowser Creek	Ag, Pb, Zn
90	H17	Brady Glacier*	Cu, Ni, PGE
91	G15	Bremner Mines	Au
92	F12	Candle Hills	Au
93	J10	Canoe Bay	Au, Ag, As, Hg, Pb
94	K7	Cape Kigunak	Au
95	D9	Cape Mountain	Sn, W
96	F11	Caribou	Au, Ag, Bi, Sn
97	D13	Caribou Mountain	Cr
98	F15	Carl Creek*	Cu, Mo
99	H18	Castle Island†	Ba, Pb, Zn, Ag
100	I12	Chalet Mountain, Cornelius	Au, Ag, W
101	F11	Chicken Mountain*	Au, As, Sb, Hg
102	G12	Chilligan River (Chill)	Cu, Sn, Au, Mo
103	F15	Chisna	Cu, Au
104	C14	Christian River	Cr
105	G11	Cinnabar Creek, Broken Shovel†	Hg, Sb, As
106	F11	Cirque, Tolstoi*	Cu, Ag, Sn, W
107	H13	Claim Point†	Cr
108	D12	Clear Creek, Boston Ridge	REE, U
109	G14	Cliff Mine†	Ag, Au, Pb, Zn
110	F13	Coal Creek*	Sn, Ag, W, Zn
111	E12	Colorado Creek	Au
112	G14	Copper Bullion (Rua Cove)*	Cu, Zn
113	E13	Cosna Dome	Sn, Pb, Ag
114	E10	Council	Au
115	I19	Crackerjack*	Au, Ag, Cu
116	H12	Crevice Creek	Au, Ag, Cu, Fe
117	G13	Crown Point, East Point (Kenai-Alaska)*†	Au
118	I19	Dawson*†	Au, Cu, Pb, Zn
119	B10	Deadfall Syncline	Coal
120	F11	DeCoursey Mountain*†	Hg, Sb, As
121	D14	Discovery Gulch	Au, W, As, Ag
122	C11	Drenchwater	Zn, Pb, Ag
123	E14	Dry Creek - Red Mountain*	Cu, Pb, Zn, Ag, Au
124	E14	Dry Creek - WTP*	Cu, Pb, Zn, Ag, Au
125	I19	Duke Island	Cu, Ni, PGE
126	E13	Eagle Creek (Scrafford)	Au, Sb
127	D9	Ear Mountain	Sn, Cu, Ag, Pb, Zn, F
128	F11	Egnaty Creek	Hg
129	G14	Ellamar*†	Cu, Au, Ag, Zn
130	B14	Esetuk Glacier	Pb, Zn, Sn, Cu, W
131	F12	Estelle, Brix claims	Cu, Au
132	E13	Ester Dome (Grant Mine)*	Au, Ag
133	E13	Ester Dome (Rhyolite)	Au
134	E13	Ester Dome (Ryan Lode)*	Au
135	F12	Farewell (Chip Loy)	PGE
136	F12	Farewell (Roberts)	PGE
137	G14	Fidalgo-Alaska, Schosser*†	Cu, Zn
138	D15	Flume Creek	Au
139	H12	Fog Lake	Au, Cu, Ag
140	E15	Fortymile Rolling Thunder (Eagle Quad)	Au
141	E15	Fortymile Rolling Thunder (Pika)	Pb, Zn, Cu, Ag, Au
142	G11	Fortyseven Creek	Au, W
143	F12	Gagaryah	Ba
144	F11	Ganes Creek	Au
145	C13	Geroe Creek	Cu, Mo
146	F11	Golden Horn†	Au, Ag, Sb, W, Pb
147	F11	Golden Horn, Malemute, Granite*†	Au, Ag, Sb, Hg, W
148	F13	Golden Zone*	Cu, Ag
149	I19	Goldstream	Au, Cu, Pb, Zn
150	G14	Granite†	Ag, Au
151	F14	Grizzly Butte	Cu, Au
152	G12	Groundhog	Cu, Au
153	I12	Halibut Bay*	Cr, Cu
154	G13	Hayes Glacier	Cu, Mo, Au
155	H18	Herbert Glacier*	Au
156	H17	Hirst-Chichagof*†	Au, Ag, Pb, Cu
157	D12	Hogatza (Caribou Mountain)	Cu, Mo
158	F15	Horsfeld*	Cu, Mo, Au
159	H11	Humble (Kemuk)	Cu, Au
160	G15	Icy Bay	Au, Ti, Zr, Cr
161	H11	Iliamna (Audn, H-Block)	Cu, Au
162	E11	Illinois Creek	Au, Ag, Pb, Zn
163	D10	Independence	Pb, Zn, Ag
164	D12	Indian Mountain	Cu, Mo, Au, Pb, Zn
165	G12	Island Mountain	Cu, Au
166	C13	Itkillik River West	Ag, Ba, Pb, Zn
167	C10	Iyikrok Mountain	Cr, PGE
168	C11	Jade Mountain	Jade
169	G17	Jarvis	Pb, Zn, As, Ag
170	G12	Johnson Prospect*	Au, Zn, Cu, Pb
171	I19	Jumbo Basin†	Fe, Ag, Au, Cu
172	C12	Kady	Ag, Pb, Zn, Ba
173	G10	Kagati Lake	Hg, Sb, As, Au
174	G12	Kahlit (Cristo)	Cu, Au
175	G12	Kahlit (St Eugene)	Cu, Au
176	E11	Kalvik Hills	Cr
177	E13	Kantishna District*†	Sb, Au, Ag
178	I19	Kasaan†	Cu, Au, Ag
179	G12	Kasna Creek*	Cu, Au, Ag, Fe
180	D9	Kelly Creek	Au
181	D9	Kelly Creek†	Au
182	F15	Kennecott (Jumbo, Bonanaza, Mother Lode, Erie)†	Cu, Ag
183	I19	Khayyam†	Au, Ag, Cu, Zn
184	C11	Kivliktort Mountain	Cu, Pb, Zn, Ag
185	G17	Klukwan*	Fe, Ti, V, Ni
186	G14	Knight Island (Pandora)*	Cu, Zn
187	D9	Kougarok*	Sn, Ta, Nb
188	G14	Latouche (Beatson, Blackbird)*†	Cu, Ag, Au, Pb, Zn
189	C14	Levi Creek	Cr, PGE
190	E13	Liberty Bell*	Au, Ag, Bi
191	D9	Lost River*†	Sn, W, F, Be, Zn, Cu, Pb, Ag
192	G13	Lucky Strike†	Au, Cu, Pb, Ag
193	G12	Magnetic Island (Trachsel, Snug Harbor)	Fe, Ti
194	H18	Maid of Mexico, Helen S	Au, Pb, Zn, Ag
195	J8	Makushin	Au, Ag, As, Hg
196	G17	Margerie Glacier	Cu, Ag, Au
197	F11	McLeod	Mo
198	E12	Medfra (Windy Pass)	Fe, Cu, Zn, Mo
199	C13	Michigan Creek (Silver King)	As, Au, Ag, Cu, Zn, Pb
200	G14	Midas†	Cu, Ag, Au, Zn
201	I11	Mike	Mo, Au, Ag, Pb, Zn
202	G14	Mineral King†	Au, Ag
203	C11	Misheguk Mountain	Cr, PGE
204	G11	Mission Creek (Owhat)	Au, Ag, Cu, As, Sb
205	G13	Molly (Miss Moly)	Cu, Mo
206	G13	Monarch-Jewell†	Au
207	E14	Monte Cristo (Stone Boy)	Au
208	F11	Moore Creek (Broken Shovel)	Au, Ag, Cu, Pb, Sb
209	E15	Mosquito	Cu, Mo
210	J8	Mount Coxcomb	Au, Ag
211	E9	Mount Distan (Divide)	Au, As, Sb
212	F13	Mount Eielson (Copper Mountain	Zn, Pb, Cu, Ag
213	F12	Mysti claims (Mystery Mtns)	Au
214	F15	Nabesna Glacier	Cu, Zn, Au
215	F15	Nabesna, Rambler†	Au, Fe
216	E15	Napoleon, Fortymile	Au
217	F13	Nim and Nimbus	Au, Ag, Cu, Zn, Mo, As
218	C11	Nimiuktuk	Ba
219	F12	Nixon Fork Mine area, Whalen†	Au, Cu, Bi
220	C13	Nolan Creek (Workman's Bench, Pringle Bench)*	Sb, Au, Sb
221	C13	Nolan Creek Mine	Au
222	H19	North Bradfield River*	Fe, Cu
223	H13	Nuka Bay District†	Au
224	G17	Nunatak	Cu, Mo, Ag, Au
225	G10	Nyac	Au
226	F13	Ohio Creek	Sn, Ag, As, Nb
227	F12	Old Man Dorite	Cu, Au
228	E10	Omalik†	Pb, Zn, Ag, Sb, Au
229	F15	Orange Hill, Bond Creek*	Cu, Mo, Au
230	E15	Oreo claims	Pb, Zn, Cu, Ag, Au
231	C12	Outwash Creek	Ag, Pb, Zn
232	F15	Paxson	Au
233	H12	Pebble South (38 Porphyry)	Cu, Au, Mo
234	E11	Perseverance†	Pb, Ag, Sb
235	G18	Polaris-Taku*†	Au
236	E8	Poovookpuk Mountain	Cu, Mo
237	D9	Potato Mountain	Sn
238	D11	Purcell Mountain	Mo, Au
239	E15	Purdy	Au
240	F12	Purkeypile	Ag, Pb, Au, Cu, Sn
241	D10	Quartz Creek (Saddle)	Pb, Zn, As, Ag
242	I19	Quartz Hill*	Mo
243	G10	Quicksilver Prospect (Rocky Creek)	Au
244	G14	Ramsay-Rutherford†	Au
245	C15	Rapid River	U, Mo, Sn, Pb, Zn
246	F11	Red Devil†	Hg,Sb
247	H10	Red Mountain (Goodnews Bay)	PGE, Cr
248	H13	Red Mountain (Kenai Chrome)†	Cr
249	F12	Reef Ridge	Zn, Pb
250	G17	Reid Inlet†	Au
251	G12	Revelation	Cu, Au
252	I11	Rex	Cu, Au
253	E14	Richardson (Democrat, Banner), Hilltop	Au
254	E14	Rob, (Blue Lead, Grizzly Bear)	Au
255	E9	Rock Creek*	Au
256	B14	Romanzof Mountains	Cu, Pb, Mo, Sn, F, U, REE, Au, Ag
257	D12	Roosevelt Creek	Cu, Zn, Pb, Ag, Au
258	D14	Roy Creek/Mount Prindle	U, Th
259	F14	Rusty Creek, Valdez Cr†	Au
260	I18	Salmon Bay*	REE
261	D13	Sawtooth Mountain	Sb, Au, Ag
262	K8	Sedanka Island (Biorka)	Zn, Pb, Cu, Ag, Au
263	E13	Sheep Creek	Pb, Zn, Ag, Sn
264	F12	Sheep Creek, Rat Fork	Zn, Cu, Pb, Ag, As
265	G11	Shotgun (Moses)*	Au
266	H19	Silback Premier*†	Au, Ag, Pb, Zn
267	E11	Silver Chalice (Poison Cr Caldera)	Au, Ag
268	C11	Siniktanneyak Mountain	Cr, Ni, PGE
269	D13	Sithylemenkat	Sn, Pb, Zn, REE
270	E15	Slate Creek (Alaska Asbestos)*	Asbestos
271	G11	Sleitat*	Sn
272	H19	Snip, Johnny Mountain*†	Ag, Au, Zn
273	E13	Stampede†	Sb
274	F14	Stellar (Zackly)*	Cu, Au
275	D15	Step Mountain	Pb, Zn
276	G13	Stone Horn Ridge	Coal
277	I19	Stone Rock	REE
278	C11	Story Creek*	Pb, Zn, Ag, Au
279	C15	Stranglewoman Creek	Sn
280	F10	Stuyahok	Au, As, Hg
281	H18	Sumdum*	Ag, Cu, Zn
282	D12	Sun*	Zn, Cu, Pb, Ag, Au
283	K4	Sweeper Cove	Au, Ag
284	D14	Table Mountain	Au, Sn, Be, W
285	E15	Taurus	Cu, Au
286	G12	Three Cub	Au, As, Cu, Sb, Zn, Pb, Ag
287	F12	Tin Creek	Pb, Zn, Cu
288	E13	Totty	Nb, Y, REE
289	F14	Tonsina (Bernard Mountain, Dust Mountain)	Cr
290	H18	Treadwell*†	Au, Ag, Pb
291	D13	Trout claims (Wolverine Mountain)	Au
292	E14	True North†	Au, As, Sb
293	G18	Tulsequah Chief, Big Bull*†	Cu, Pb, Zn, Au, Ag
294	E15	Tushtena (Stibnite Creek)	Au
295	E14	Uncle Sam	Au
296	I19	Union Bay*	Fe, Ti, PGE, Cr
297	D13	Vana & McCord claims, Livengood	Au
298	D14	Victory Ridge (Top Dollar, Joker, 88 Group)	Au, As, Zn
299	F12	Vinasale*	Au
300	F12	Von Frank Mountain	Au, Cu, As
301	H10	Wattamuse	Au, Ag, As, Cu, Sb
302	E14	West Pogo, Money Rock, Goodpaster	Au, Ag
303	E13	West Ridge	Au, W, Sb
304	F12	White Mountain†	Hg
305	C11	Whoopee Creek	Pb, Zn, Ag, Au
306	G17	Windy Craggy*	Pb, Zn, Ag, Cu
307	H18	Woewo Island*	Ag, Au, Cu, Pb, Zn
308	F10	Wolf Creek Mountain	Hg, Sb
309	F13	Yenlo (Shulin Lake)	Diamonds
310	H18	Zarembo Island	Pb, Zn, Ag

* indicates location has an identified mineral resource

† indicates location is a past producing mine

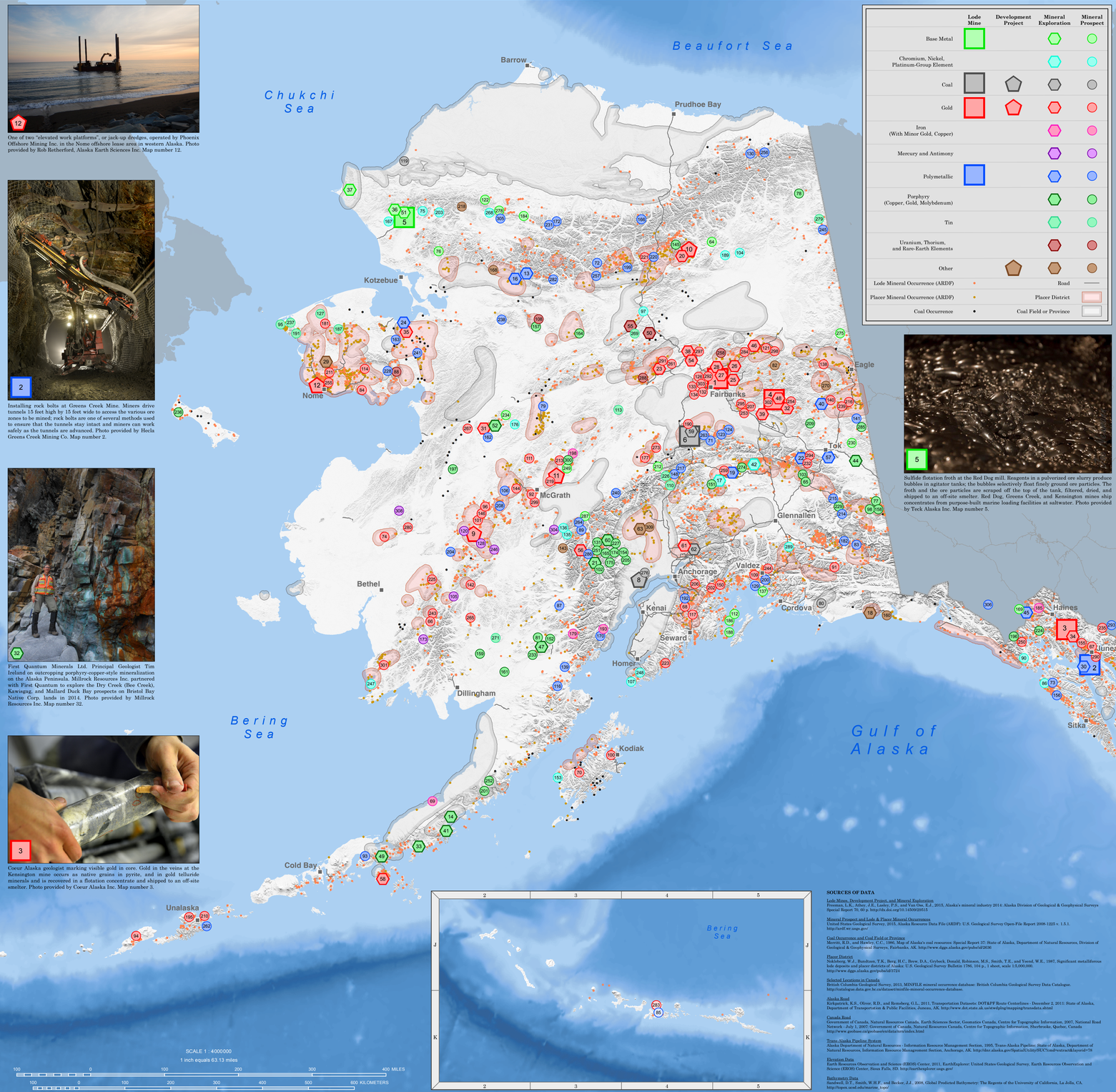
One of two "elevated work platforms", or jack-up dredges, operated by Phoenix Offshore Mining Inc. in the Nome offshore lease area in western Alaska. Photo provided by Rob Retherford, Alaska Earth Sciences Inc. Map number 12.

Installing rock bolts at Greens Creek Mine. Miners drive tunnels 15 feet high by 15 feet wide to access the various ore zones to be mined; rock bolts are one of several methods used to ensure that the tunnels stay intact and miners can work safely as the tunnels are advanced. Photo provided by Hecla Greens Creek Mining Co. Map number 2.

First Quantum Minerals Ltd. Principal Geologist Tim Ireland on outcropping porphyry-copper-style mineralization on the Alaska Peninsula. Millrock Resources Inc. partnered with First Quantum to explore the Dry Creek (Bee Creek), Kawisgag, and Mallard Duck Bay prospects on Bristol Bay Native Corp. lands in 2014. Photo provided by Millrock Resources Inc. Map number 32.

Coeur Alaska geologist marking visible gold in core. Gold in the veins at the Kensington mine occurs as native grains in pyrite, and in gold telluride minerals and is recovered in a flotation concentrate and shipped to an off-site smelter. Photo provided by Coeur Alaska Inc. Map number 3.

Sulfide flotation froth at the Red Dog mill. Reagents in a pulverized ore slurry produce bubbles in agitator tanks; the bubbles selectively float finely ground ore particles. The froth and the ore particles are scraped off the top of the tank, filtered, dried, and shipped to an off-site smelter. Red Dog, Greens Creek, and Kensington mines ship concentrates from purpose-built marine loading facilities at saltwater. Photo provided by Teck Alaska Inc. Map number 5.



	Lode Mine	Development Project	Mineral Exploration	Mineral Prospect
Base Metal				
Chromium, Nickel, Platinum-Group Element				
Coal				
Gold				
Iron (With Minor Gold, Copper)				
Mercury and Antimony				
Polymetallic				
Porphyry (Copper, Gold, Molybdenum)				
Tin				
Uranium, Thorium, and Rare-Earth Elements				
Other				

Lode Mineral Occurrence (ARDF)	Road
Placer Mineral Occurrence (ARDF)	Placer District
Coal Occurrence	Coal Field or Province

2014 MINERAL INDUSTRY ACTIVITY

LODE MINES

ID	Grid	Name	Commodities
1	E14	Fort Knox Mine*	Au
2	H18	Greens Creek Mine*	Au
3	G17	Kensington Mine*	Au
4	E14	Pogo Mine*	Zn, Pb, Ag, Ba, Ge
5	C10	Red Dog Mine*	Ba, Pb, Zn, Cu, Ag, Au
6	E13	Usibelli Coal Mine (Two Bull Ridge Mine)*	Coal

DEVELOPMENT PROJECTS

ID	Grid	Name	Commodities
7	I18	Calder Limestone	CaCO3
8	G13	Chuitna*	Coal
9	F11	Donlin Gold*	Au
10	C13	Little Squaw (Chandalar placer)	Au
11	F12	Nixon Fork Mine*	Au, Cu
12	E9	Nome Offshore†	Gold

MINERAL EXPLORATION

ID	Grid	Name	Commodities
13	C12	Ambler, Arctic*	Zn, Cu, Pb, Ag, Au
14	I11	Bee Creek (Dry Creek)	Cu, Au, Mo
15	I19	Bokan Mountain (Dotson)*	REE
16	D11	Bornite*	Cu, Ag
17	F14	Butte Creek (Peak 5532)	Cu, Pt, Pd
18	G15	Cape Yakataga†	Au, Ti, Zr
19	F14	Caribou Dome (Denali Copper)*	Cu,Ag
20	C13	Chandalar district (Mikado, Little Squaw)	Au
21	G12	Copper Joe	Cu, Au, Mo
22	E15	Delta mineral belt*	Pb, Zn, Cu, Ag, Au
23	E13	Elephant Mountain	Au, Ag, As, Sb, Bi, Pb
24	D10	Fairhaven (Anugi)	Zn, Pb, Ag, Au
25	E14	Fort Knox Mine Area*	Au
26	D14	Gil, Fort Knox area*	Au
27	E14	Gilmore Dome Area	W, Au
28	E14	Golden Summit*	Au
29	D9	Graphite Creek*	Graphite
30	H18	Greens Creek Mine, Killer Creek*	Ba, Pb, Zn, Cu, Ag, Au
31	E11	Honker	Au, Ag
32	E14	Ink (Stone Boy)	Au
33	J10	Kawisgag (Ivanof)	Cu, Mo, Au
34	G18	Kensington Mine Area (Jualin)*	Au, Ag
35	D10	Kugruk (Candle)	Au
36	C10	Lik-Sue*	Zn, Pb, Ag
37	C10	Lisburne	Zn, Pb, Ag
38	D13	Livengood, Money Knob*	Au
39	E14	LMS*	Au, Ag
40	E15	LWM	Zn, Pb, Ag
41	J11	Mallard Duck Bay	Cu, Ag, Au, Mo, Pb, Zn
42	F14	MAN project	PGE, Ni, Cu
43	I19	Niblack*	Cu, Zn, Au, Ag
44	F15	Northway (Road Metal)	Cu, Au, Ag
45	G17	Palmer (Glacier Creek)*	Ba, Pb, Zn, Cu, Ag, Au
46	D14	PB claims, Porcupine Cr, Circle	Au
47	H12	Pebble*	Cu, Au
48	E14	Pogo Mine Area, 4021*	Au
49	J10	Pyramid, Port Moller*	Cu, Au
50	D13	Ray Mountains (Ray River)	REE, Sn
51	C10	Red Dog Mine, Annarraq*	Zn, Pb, Ag
52	E11	Round Top	Cu, Mo, Ag
53	I19	Salt Chuck	PGE
54	D13	Shorty Creek	Au, Cu
55	D13	Sithylemenkat Lake	U, Th, REE
56	G12	Terra*	Au
57	E15	Tetlin (Cheif Danny, Peak Zone)*	Au, Cu, Ag
58	J10	Unga (Apollo-Stika, Shumagin, Centennial)*	Au, Ag
59	E13	Usibelli Coal Mine area, Jumbo Dome*	Coal
60	F12	Whistler, Raintree West*	Cu, Au
61	F13	Willow Creek (Lucky Shot)*†	Au
62	F13	Wishbone Hill*	Coal
63	F13	Yenlo Hills (Sable Elegance)	Au, Ag, Cr, Ni, PGE

* indicates location has an identified mineral resource

† indicates location is a past producing mine

SCALE 1 : 4000000
1 inch equals 63.13 miles
100 0 100 200 300 400 MILES
100 0 100 200 300 400 500 600 KILOMETERS

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