

Property File  
082FNW247

002530

IRON KING MINE?

Diamond Drill Hole No. 1.

Direction Eastelly Dip 30°

Started drilling July 20.

Finished " " 31

Depth 462 feet.

Depth	Rock	Sludge Oz Au. Assays	Core Oz Au	
0				
11	Soil			
20	Granite			Gneissic
29	"			"
32.5	Schist			Mostly Ferro-mag. minerals
35	Granite & Schist	Tr - 30-35		2' core. Tr. of Py. 1' core. Tr of py.
40	Granite			Fine grained
50	"			Aplitic Lost water @ 50'
63	"			"
67	Quartzite?			Altered, fine, dark gray. Tr py
74	" ?			do. & fine Q. seams.
75	" ?			
79	" ?			do.
88.5	Porphyry	Tr. 84-89		Altered; hornblend cryst. Tr Py Dike or sill
93	Aplite		Tr-94.5-97	
100	?	Tr-90-105		Highly altered. Ferro-mag. Qtz Epidote. 3" aplitic. Tr Py
109	?			Altered; Feldspar & ferro-mag. Tr Py & Qtz seams
111	Porphyry			Hornblend cryst.
116.5	"	Tr 109-115		" "
119	"	Tr 115-119		2.7' core. 3" aplitic
125	?	Tr 119-128		Altered; feldspar & ferro-mag
140	?	Tr 128-135	.02 -135-140	Tr. py & Q seams Do. Aplitic seams with py & Qtz.
145	?		.04 -141.5-143.1	Do. Increasing biotite
150	?			Do.
155	?	.09 - 135-155		Mottled dark gray & much ferro- mag. Some py & Qtz seams.
160	?		.02 - 159.5-165	Do. More Qtz & less py.
163	?	.07 - 155-165		Do.
170	?			Mottled, dark gray, much ferro- mag. Silicif. & altered; Epidote
172	Porphyry	.05 - 165-175	.02 - 165 - 166.5	Dike or sill; tr Py
180	?			Mottled dark gray, much ferro-mag Some Qtz & tr py
185	?	Tr 175-185		Do. Slight resemblance granite
190	Gneissoid			Qtz. feldsp. & ferro-mag.
195	"	Tr 185-195		Do.
200	"			Do.
210	"	Tr. 195-205		Do. & some Qtz seams. 8' core

321

## IRON KING MINE.

D. D. H. #1, Continued.

Depth	Rock	Sludge Assays	Core	
210				
211	Porphyry			Dike or sill
214.5	Gneissoid	Tr-205-215		Feldspar & ferro-mag. Silicified. Rare py.
216.4	Porphyry			Basic dike; 4" aplite
218	Magnetite		Tr-216.4-218	Mag. strong & fair pyrite
230	Gneissoid	Tr-215-225		Black, strong ferro-mag; Tr Q & Py
236	"	Tr-225-235		Ditto, more feldsp. Strong Tr py & Q
275	Porphyry	Tr-235-245		Very strong biotite, slightly silicif and schisted. A few 2" seams strong py, & rare Qtz.
		Tr-245-255		
		Tr-255-265	Tr-254-255	
		Tr-265-275	Tr-259 <sup>5</sup> -261	
			Tr-266 <sup>5</sup> -270	
282	Granitic		Tr-278 <sup>2</sup> -279 <sup>4</sup>	Apparent mix of aplitic & gneissic granite. Fair Py @ 278-279
290	Aplite	Tr-275-285		Aplitic granite. Tr. py.
300	"	Tr-285-295		8' core saved
310	"			Aplitic Granite. 6' core. Tr Py
316.5	"			" " " "
323	Granitic	Tr-315-325		Very basic granite differentiate Some Qtz seams
330	"			Granite & aplite. 5.5' core. Tr Py & some aplite.
340	Granite			More normal. Tr Py at intervals
350	"			About normal, but variable
396	"	.02-375-385		" " , some schistose
404	"			Fair Py for short pieces.
406.3	Porphyry	.04-395-405		Dike, unmineralized
412.3	Gneissoid			Probably basic phase of granite
414.3	Granite	.03-405-415		Light colored, unmineralized
420	Gneissoid			Probably basic phase of granite
425	Granite			More normal slightly gneissoid granite; No py, a little Qtz.
431.5	Porphyry	.03-415-435		Park to black. Weak Py.
443	Granite	.03-435-445		Varies quickly from aplitic to very basic in streaks. Fair Py in some basic spots
448.5	Gneissoid			Probably granite. Dissem. Py.
455	?	.03-445-455	Tr-448 <sup>5</sup> -455	Very variable; Mix of granite & overlying rocks? Strong biotite & schisted; fair dissem. Py.
460	Granitic			Black biotite rock. Tr. Py.
462	Indeterminate	.02-455-462		Very fine, gray, silicified

End of Hole.

NOTES: Lost water at 50' and cemented hole.

After about the first 100 feet, this hole passed through very different rock from what shows on the surface, and only weak mineralization. In the above notes "granite", "granitic", & "gneissoid", and "aplite" all probably refer to various differentiations of the granite magma. It seems likely that the hole penetrated about the top of a granite intrusion under the orebody, but this must be checked by further drilling. "Porphyry" is probably Lamprophyre dikes.

IRON KING MINE.

Diamond drill Hole No. 2.

Direction- a little south  
of Easterly.

Dip 20°

Started Drilling Aug. 1 '33

Finished " Aug. 6

Depth 288 feet

Depth	Rock	Assays		Remarks
		Sludge	Core	
0				
29	Soil etc			
32	Rossland			Fine grained, altered, un-minlzd
40	Granite			5½' core. fine grain. Un-minlzd
50	"			5' core " " "
61	"			Variable, part aplitic. Tr Py
69	"			" " " " "
77	Porphyry			Lamprophyre probably. Tr. Py
86	Rossland			Black, fine grain. Mostly biotite & feldspar. Schisted, Tr Py.
91½	Porphyry			Lamprophyre probably. Tr Py
98	Rossland			Possibly altered impure Qtzt. Tr Py, epidote & chlorite
104½	"			---- as above--
110	"			Strongly altered, coarser & silicious. Some epidote & Tr Py
115	"	.015-105-115		4' core. Silicified & strongly altered. Strong epidote. Weak Py
117	"		Tr-115-117	Highly altd Qtz-epidote rock with strong mag. & py
124	"		Tr-117-124	Originally limestone? Now Qtz epidote & garnet. Fair py, Tr mag
128	Porphyry	Tr-115-125		Broken; tr minlzn.
133	Rossland		Tr-128-133	Fine, dark, highly altd & silicif
138	"	.02-125-135	Tr-133-138	Irreg. py & mag with epid. & garn Very silicious & altd. Epidote & much Py, some mag. Rare garnet. .
140	"		.02-138-140	As above, but stronger minlzn.
143	"	Tr-139-143		Core dropped & lost. Sludge of chopped core.
147	"		.02-143-147	Dark, fine, silicified. Strong py, some mag, but varying.
160	"	.02-143-155		Gray medm. basic; Igneous? Tr minlz
166	"	Tr-155-165	Tr-160-166	---similar to above---
171	"		.015-166-171	Dark, basic, much altd. Epidote & chlorite. Fair to weak Py.
176	"	.01-165-175	Tr-171-176	As above but more Py & mag.
179½	"		.01-176-179	" " " weaker minlzn.
184½	"	Tr-175-185	Tr-179-184	Rock as above. Fair Py & some mag
192	Porphyry			Only Tr mineralization
196	Rossland	Tr-185-195	.02-192-196	Black, basic. Mag. & Py epidote etc
201	"		Tr-196-201	" " " " "
206	"	Tr-195-205	Tr 201-206	" " Strong mag. fair Py etc

## D. D. Hole No. 2 - contin.

Depth	Rock	Assays		Remarks
		Sludge	Core	
206				
208	Rossland			Black basic rock. Decreasing minlzn, much epidote.
215	"			Mottled, gray, schisted. Tr minlzn
220	"	Tr- 210-220		As above; biotite & feldspar
230	"	.05 220-230		As above
242	"	.07- 230-240		As above; also a few inches granit and aplite. Tr. Minlzn.
245	"		Tr- 242-245	Well minlzd. Epidote & tr garnet, fair Py & tr magnetite
247	"			Mottled, gray; tr mineralization
252	"		.04- 247-252	Altered limestone? Garnet & epidot with good py. 4½' core
258½	"	Tr- 245-255	.02- 252-258½	Strong garnet, epidote, biotite. Strong Py & some mag. Tr Qtz
262	Rossland?			Feldspar & biotite, slightly gneissic. Rare Tr minlzn
266	"	Tr- 255-265		Variable epidote & garnet with mica schist. Fair Py.
269	Porphyry			No mineralization
275	Rossland?	Tr-265-275	.01- 274-275	Mixt. mostly mottled felds-biotite (Qtz & py) & granit streaks & 8" qtz & Py
278	"			Similar to above. Weak Minlzn
281	Varying			Porphyry, aplite, & "mottled" rock in streaks. Tr Py Lost water
288	Granite			Broken porphyritic granite. 3' core
End of hole.				

## NOTES:

Some water lost at 35 feet, some at 150 feet, and all at 280 feet. Hole caved badly at end.

On the surface a granite dike outcrops about above the end of the hole; beyond this there is no known mineralization.

This Hole checks reasonably well with the surface, as far as appearance goes, and if anything looks a little better.

"Rossland" refers to rocks of the Rossland Series which are both igneous and sedimentary, and here, are mostly indeterminate on account of strong alteration.

Tr - Trace

Py - Pyrite

Mag - Magnetite

Altd - Altered

Qtz - quartz

Minlzn - Mineralization.

IRON KING MINE

Diamond Drill Hole No. 3.

Direction - a little north  
of easterly.

Dip 30°

Started drilling Aug.6, 1933

Finished " Aug.12

Depth 225 feet.

Depth	Rock	ASsays		Remarks
		Sludge	Core	
0				
9	Soil			
22	Granite			No mineralization
31	"			Broken & oxidised. 5' core
42	Porphyry			No mineralization
43	Granite			Aplitic; broken; 7½' core. Tr Py
57	"			More solid; Tr Py
64½	"			Probably phase of granite
75	Rossland			May be altered impure qtzt.
83½	"			Altered quartzite? Tr. minlz.
94	Porphyry	Tr- 85 -95		Probably lamprophyre. Tr minzn
105	Rossland	Tr- 95-105		Strong biotite mica; schisted
112	"			As above with tiny aplite dikes
113	Porphyry	Tr-105-115		
120	Rossland			Much biotite; some schisted; TrPy
122	Porphyry	Tr-115-125		
130	Rossland			Much altered, not minerlzd. 6½' core
140	"	Tr-125-135		As above
150	"			" "
160	"			" "
170	"			" "
180	"			Fine grain, altered. Qtz & aplite seams; traces pyrite.
185	"			as above but no qtz & aplite
190	"			Less basic & coarser. Tr minlzn
201	"			As above but finer & aplite seams
202½	Porphyry			
206	Rossland			Altered, dark, schisted. No minlzn
215	Granite			Aplitic. Broken. 6½' core
225	"			As above. 9' core.
End of hole				

NOTES: "Rossland" refers to rocks of the Rossland Series which are here often indeterminable.

Hole caving to 40 ft and set casing 40'. Water lost and hole cemented at 128' & 142' & 213'. Short of water most of the way, and only partial return through most of hole.

Only traces of mineralization appear in any of the core.

IRON KING MINE

Diamond Drill Hole No. 4.

Direction, Easterly  
 Dip 25°  
 Started drilling Aug. 15, 1933  
 Finished " " 19  
 Depth 148 feet.

Depth	Rock	Assays		Remarks
		Sludge	Core	
0	Rossland			Strong epidote & garnet but no metallic mineralization.
6	"			As above
11	"			As above
24	"	Tr-20-25		Strong epidote & garnet. Broken
		Tr-25-30		Tr minlzn. 7' core
39½	"	Tr-35-40		Basic rock with much biotite, much broken; no minlzn.
45	"	Tr-40-45		Garnetite; unminlzd.
55	"	.01-45-50		Fine grained less basic rock. scant Py in seams & dissem. 8' core
58	Porphyry	Tr-50-60		Probably lamprophyre
71	Rossland			Schisted feldspar-biotite rock
74	"			Finer grain & weak Py minlzn
88	"	Tr-80-85		As above but finer & Tr py & aplit
96	Granite	.015-85-95		Probably a dike. Tr Py
105	Rossland			Rock mostly biotite. Rare Py seams
124	"			As above
134	"			As above but in places some fusion with granite.
136	Aplite			
143	Rossland			Fine biotite rock. Rare tr Py
148	Porphyry			Unmineralized
	<u>End of hole</u>			

NOTES: Ground badly broken and leaking to 85 feet; casing set at 54 feet. Hole gave much trouble and delay to 85 feet, but was fine drilling after that. Practically no metallic mineralization was found in the hole.