

him for iron ore during 1916, he concludes that, so far as quantity of ore available for mining is concerned, it is only possible to make a very rough estimate. Under the present conditions even that estimate can only be made on theory, and much more development must be done to prove the figures, which may be considerably increased, given in the following report. The development-work is not sufficient in any instance to determine the conditions beyond a shallow depth, as regards the continuity of the magnetite-deposits to deep levels. The same statement applies to the question of the superficial extent, because except in a few cases the boundaries of the deposits are not exposed. It is evident that in several instances the workings underground show that the ore-body is still strong at the lowest level reached, but that is only a shallow depth.

The writer has attempted to make an estimate of tonnage of ore available by dividing it into three classes, as follows:—

(1.) *Actual ore*, meaning thereby such quantity as development has exposed sufficiently to be considered as measurable and immediately available.

(2.) *Probable ore*, meaning such ore as is only partially developed, not sufficiently so to admit of definite measurement, but of the occurrence of which the indications are sufficiently strong to warrant an assumption that such ore probably occurs.

(3.) *Possible ore*, meaning such ore as is undeveloped, but which may possibly and is hoped to be found by further prospecting and development, the only indications of which are surface outcrops, and which may be postulated as possible from a knowledge of the geological conditions.

Name of Property.	Actual Ore.	Probable Ore.	Possible Ore.	Total.
	Tons.	Tons.	Tons.	Tons.
Ralph* .....	...	...	...	...
Rose* .....	...	...	...	...
Baden Powell and Little Bobs ..	...	500,000	250,000	750,000
Sirdar	94,000	...	47,000	141,000
Conqueror	16,000	230,000	120,000	366,000
Sarita (Provincial Mineralogist's estimate) .....	...	30,000	25,000	55,000
Henderson Lake	20,000	...	280,000	300,000
Black Prince	15,000	...	15,000	30,000
Crown Prince	75,000	...	200,000	275,000
Glengarry and Stormont (Nootka sound)	250,000	250,000	750,000	1,250,000
Fido (Nootka sound) .....	...	50,000	200,000	250,000
Quinsam Lake Iron Syndicate ..	...	...	5,000,000	5,000,000
Prescott (McConnell's estimate) ..	...	1,366,400	993,600	2,360,000
Paxton (McConnell's estimate) ..	...	1,607,200	...	1,607,200
Lake (McConnell's estimate) ..	...	504,000	...	504,000
Klaanch River* .....	...	...	...	...
Totals	470,000	4,537,600	7,880,600	12,888,200

NOTE.—Properties marked * are in such condition that no estimate can possibly be made of the tonnage available.

Prospecting with diamond-drills should be carried on quite extensively preparatory to the installation of any manufacturing plants.

INTRODUCTION.

The examinations made by the writer during the past season were undertaken principally for the purpose of bringing the information regarding the iron ores already in the possession of the Bureau of Mines up to date. During the past summer the writer was heavily handicapped, owing to the fact that because there has been no movement to create a demand for either iron-ore mines or the ore, the