

82G-1W

RECORD OF WORK
ON THE COMMERCE CLAIMS
COM. NOS. 1-16, 19-39, 41-48
SE B.C. June-July 1970
FALCONBRIDGE NICKEL MINES LIMITED

Vancouver, B.C.
February, 1971

T. Gyr

RECORD OF WORK ON THE COMMERCE CLAIMS

GOBLE FAMILY OPTION - COMMERCE NOS. 1-16, 19-39, 41-48.

N.T.S. 82 G/1W

LAT. 49°09'-49°12', LONG. 114°20'-114°25'

June - July 1970

FALCONBRIDGE NICKEL MINES LIMITED

Vancouver, B. C.

February, 1971

T. Gyr

Geologist

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INTRODUCTION

The following brief report summarizes work carried out on the Commerce Claims Nos. 1-16, 19-39, 41-48 by Falconbridge Nickel Mines Limited in June and July 1970. The claims were staked in July and November 1967, and initial prospecting was carried out by Kennco Explorations Limited, Frank Goble and Ronald Goble. A working option agreement was made on January 2, 1970 between the Goble family and Falconbridge Nickel Mines Limited. The claims are situated northeast of Commerce Peak, Flathead Valley in the Fort Steele Mining Division of B.C. The working crew consisted of 1 geologist (T. Gyr), 1 driller, and 6 prospectors (students). A helicopter was used for access and transportation.

PROSPECTING

Intensive prospecting was carried out covering all optioned Commerce claims. The geological map obtained from F. Goble showing the locations of copper occurrences as well as his detailed prospecting logs proved to be of considerable help. Mr. Goble also spent one day prospecting with us.

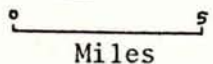
Two targets were of specific interest: (1) The syenite intrusion and its possible relationship to copper mineralization; and (2) the abundant copper showings within the Grinnell Formation.

Prospecting in the area underlain by syenites gave disappointing results. The syenites forming a more or less concordant sheet on top of the Siyeh limestones generally carry minor amounts of disseminated pyrite. Possible fine grained chalcopyrite was observed mainly in the northwestern part of the syenite outcrops but the mineralization was too poor to justify



INDEX MAP
 COMMERCE CLAIMS

 Commerce Claims



NTS. 82 G/1W
 Map.Ref.157-70-15

assays (see sample #1). The old trenches in the eastern part of the claim group were investigated but minor disseminated pyrite was the only noticeable sulfide. Reported questionable high gold values (2 oz./ton) dating back to 1935, were checked by F. Goble but could not be confirmed.

Goble's copper occurrences in the Grinnell Formation were examined and the better mineralized beds sampled. The local accumulation of copper east of Commerce Lake (1 mile northeast of Commerce Peak) is a succession of quartzite beds (1 inch to 5 ft. thick) each with minor signs of copper mineralization. However, the mineralization is extremely scattered along the lateral extent in a sense that between two copper indications, there may be 10-20 feet of barren quartzites. Normal scale sampling of this type of deposit is bound to produce inadequate information.

Better mineralized bands were encountered to the south and especially to the west (see map #157-70-11 and table). One of these showings north of Commerce Peak, merits special attention (see map #157-70-11, inset). Two gently north dipping quartzite bands, 30-40 ft. apart, are well mineralized (1.5-4.0% Cu) and extend in north south direction for at least 200 ft. and 1,000 ft. respectively - their east west extension being limited by topographic cut off to a few hundred feet since they occur near the top of a ridge. The thickness of the mineralized beds never exceeds 6 inches along the outcrop examined and there is no structural indication of a possible thickness improvement in any direction. At the present time, none of the above described showings justifies development work.

DIAMOND DRILLING

Five packsack diamond drill holes totalling 250 ft. were completed to test the extent of 2 surface showings located by F. Goble. The results were not encouraging (see logs). This drilling was done under pressure of

COMMERCE CLAIMS

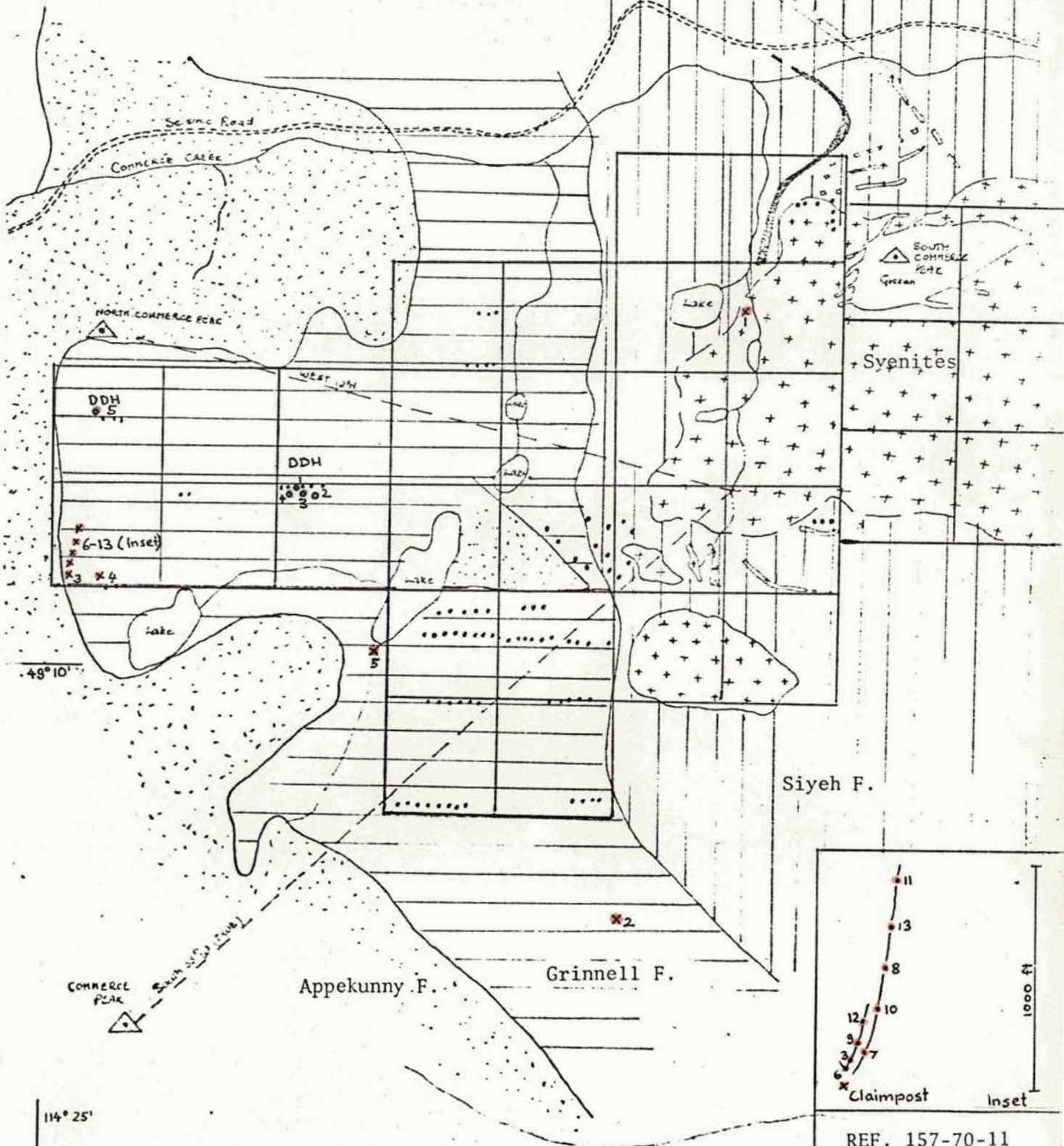
Location of rock samples
and diamond drill holes 1970

- ... Copper mineralization
- * 2 Sample location
- Drill hole location

Geol. Base Map - Courtesy F. Goble

3000 ft

Falconbridge Nickel Mines Ltd.



time in order to fulfill assessment requirements. Since no core boxes were available, the drill crew sampled the core in 5 foot sections and placed it in a bag, recording the depth of any visible mineralization. The actual logging is, therefore, somewhat statistical.

The argillites are generally thin bedded and the colour banding irregular ranging between 2 inches and 2 feet. The interbedded green and red siltstones are fine grained in contrast to the white and coarse grained quartzites.

Siltstone and quartzite beds are usually 2-6 inch thick. Thicker quartzite bands were intersected in DDH 5. Mineralization entirely restricted to the quartzites was poor in all holes.

T. Gyr

Vancouver, B. C.

February, 1971

NORTH sce map STARTED June 25/70
 EAST _____ COMPLETED June 25/70
 ELEV. 6700' LENGTH 35 ft.
 BEARING _____
 DIP Vertical

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY

Commerce Group
Goble Option

PURPOSE Test HOLE No. Com. 1
extent of surface CLAIM Com. 9
showing SECTION _____
 LOGGED BY T. Gyr OFFSET _____

PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C. L.	Recov.	Core Angle
0-5	Argillite, 90% red 10% green.				100%	39°
5-10	Argillite, 95% red. Quartzite 5%.				100%	100%
10-15	Argillite, 50% red 50% green				100%	40°
15-20	Argillite, 95% red 5% green				100%	42°
20-25	Argillite, red with green leaching spots				100%	90%
25-30	do broken core				100%	40°
30-35	Argillite, 80% green, silty. 20% red					
No visible mineralization encountered.						

NORTH see map STARTED June 26/70
 EAST _____ COMPLETED June 27/70
 ELEV. 6700' LENGTH 60 ft.
 BEARING _____
 DIP vertical

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY

Commerce Group
Goble Option

PURPOSE Test HOLE No. Com. 2
extent of surface CLAIM Com. 9
showing. SECTION _____
 LOGGED BY T. Gyr OFFSET _____

PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C. L.	Recov.	Core	Angle
0 - 5	Argillite, red with green leaching spots.						
5 -10	Argillite, red at 9 ft. 3 in. quartzite, white.				100%		40°
10 -15	Argillite, 50% red 50% green.				100%		
15-20	Argillite, 95% red 5% green.				100%		42°
20-25	Argillite, 70% red 30% green, silty.				100%		
25-30	Argillite, red with green leaching spots.				100%		38°
30-35	do				100%		
35-40	Argillite, 70% red 30% green, silty.				100%		40°
40-45	Argillite, 70% red 30% green. 6 in. quartzite.				100%		
45-50	Argillite, 80% red. Siltstone 10% green, quartzitic 10% white.				100%		39°
50-55	Argillitic, 30% red 15% green. Siltstone, 55% green.				100%		41°
55-60	Argillite, 80% red. Siltstone, 20% green.				95%		
					90%		
No visible mineralization encountered.							

NORTH see map STARTED June 28/70
 EAST _____ COMPLETED June 28/70
 ELEV. 6700' LENGTH 40 ft.
 BEARING _____
 DIP vertical

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY

Commerce Group
Goble Option

PURPOSE Test HOLE No. Com. 3
extent of surface CLAIM Com. 9
showing SECTION _____
 LOGGED BY D. Moule OFFSET _____

PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C. L.	Recov	Core Angle
0- 5	Argillite, 85% red 10% green, silty Quartzite, 5% 1/2 inch at 4 ft. with fine diss. bornite (less than 1/2%).				95%	37°
5-10	Argillite, 90% red 10% grey green				95%	38°
10-15	Argillite, red.				100%	40°
15-20	Argillite, 75% red 5% green. Siltstone 20% green				100%	38°
20-25	Argillite, 90% red 10% green				90%	
25-30	Argillite, 95% red 5% green				100%	
30-35	Argillite, red.				100%	
35-40	Argillite, 70% red, 25% green silty. Quartzite, 5%				90%	
	Minor bornite (1/2% or less) over 1/2 inch at 4 ft.					

NORTH see map STARTED June 29/70
 EAST _____ COMPLETED June 30
 ELEV. 6700' LENGTH 40 ft.
 BEARING _____
 DIP vertical

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY

Commerce Group
Goble Option

PURPOSE Test HOLE No. Com. 4
extent of surface CLAIM Com. 9
showing. SECTION _____
 LOGGED BY D. Moule OFFSET _____
 PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C. L.	Recov.	Core Angle
0-5	Argillite, 75% red 20% green. Quartzite, 5%				100%	37°
5-10	Argillite, 95% red 5% grey green				100%	
10-15	Argillite, 90% red 10% green				90%	
15-20	Argillite, 50% red 25% green. Siltstone, 25% green				90%	41°
20-25	Argillite, 95% red 5% grey green, silty				90%	
25-30	Argillite, 95% red 5% grey green				90%	38°
30-35	Argillite, 75% red 20% grey green. Quartzite, 5%				80%	
35-40	Argillite, 95% red 5% green				80%	39°
No visible mineralization encountered.						

NORTH see map STARTED July 1/70
 EAST _____ COMPLETED July 3/70
 ELEV. 7700' LENGTH 75 ft.
 BEARING _____
 DIP Vertical

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY

Commerce Group
Goble Option

PURPOSE Test HOLE No. Com. 5
extent of surface CLAIM Com. 14
showing SECTION _____
 LOGGED BY D. Moule OFFSET _____

PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C. L.	Recov.	Core Angle	Cu.-Assay
0-2	} Quartzite, white, coarse grained with green argillite pebbles, specks of malachite	25181			100%	80°	0.117
2-4		25182		100%	0.005		
4-6		25183		90%	0.038		
6-12	Argillite, green. Minor quartzite, broken core			20%			
12-14	} Quartzite, white coarse grained, with green argillite pebbles. At 12' 1 inch with malachite. No visible sulfides	25184			95%	85°	0.038
14-16		25185		100%	0.010		
16-18		25186		100%	0.029		
18-20							
20-22	Argillite, red, platy	25187			100%	83°	0.004
22-24	} Quartzite, white, coarse grained with green argillite pebbles.	25188			50%		0.025
24-26		25189		50%	0.009		
26-35	Argillite, red, platy, broken core				30%		
35-45	do				20%		
45-55	do				20%		
55-65	Argillite, red with 10% green interbeds				50%		
65-75	Argillite, red, broken core				30%		

Poor recovery due to location of drill site on broken outcrop.

COMMERCE CLAIMS
Assays of rock specimens collected in 1970
Falconbridge Nickel Mines Limited

Location Number	F.N.M.L. Ref. No.	Assay - % Cu	A. Ag ppm	A. Co ppm	Location	Description
1	14832	0.05	2.0	24.0	west of South Com. Peak	Syenite with diss. pyrite
2	14846	0.07	1.0	12.0	east of Commerce Peak	Quartzite, 2" malachite
3	13248	1.78	2.2	-	north of Commerce Peak	Quartzite, 3", ma, cp, cc
4	13249	0.04	0.5	-	" " "	quartzite, 2", ma, cp
5	14818	0.56	2.8	-	Float, Commerce Lake	quartzite, cp, cc
6	25152	1.26	12.0	6.0	north of Commerce Peak	quartzite, 3", cp, cc, bo
7	25171	4.30	33.0	3.0	" " "	quartzite, 6", bo, cc
8	25172	3.00	21.0	4.0	" " "	quartzite, 4", bo, cc
9	25173	1.70	14.0	3.0	" " "	quartzite, 2", bo, cc
10	25174	2.03	17.0	6.0	" " "	quartzite, 3", bo, cc
11	25175	2.27	18.0	3.0	" " "	quartzite, 4", bo, cc
12	25176	1.47	14.0	3.0	" " "	quartzite, 3", bo, cc
13	25177	1.63	13.0	5.0	" " "	quartzite, 4", bo, cc