

Box 4

Ref. No. 2059

FILE

REPORT ON TRENCHING
AND DRILLING RESULTS

Snow #2 Claim
Sandspit B.C.

N.T.S. 103-G-4W

Lat. 53 11' 30" N

Long. 131 47' 15" W

Vancouver B.C.
February 20, 1980

P. J. Burns

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INTRODUCTION:

This report describes results of work carried out on a portion of the Snow #2 claim in the Sandspit area of B.C., owned by Prospector R. E. Mickle and under option to Wesfrob Mines Ltd.

In June, 1979, Mr. Mickle signed a Mineral Exploration Incentive Program Agreement (M.E.I.P. Contract #39) with the B.C. Ministry of Energy, Mines and Petroleum Resources.

The trenching and drilling results herein are submitted on behalf of Mr. Mickle as a partial fulfilment of obligations set forth under terms of the agreement.

ACCESS & RELIEF:

The area of interest is located on the Snow #2 claims (figures 080-80-1 and 080-80-2) and may be reached on foot via an old logging road which heads west from the Copper Bay road at a point 6km S.S.E. of the village of Sandspit.

Relief on the claim ranges from sea level to 70m a.s.l. and the area under discussion is approximately 10m a.s.l.

REGIONAL GEOLOGY:

The reader is referred to a report by Sutherland Brown (B.C. Dept. of Mines and Petroleum Resources, Bulletin No. 54, 1968) for a summary of the regional geology of the Sandspit area.

LOCAL GEOLOGY:

Locally, the claim is underlain by Yakoun Formation rocks of Jurassic age. Numerous exposures of Yakoun pebble conglomerate and intermediate tuff breccia crop out near the trenches.

The N.W.-S.E. trending Sandspit Fault System is the major structural feature in the vicinity, passing approximately 100m N.E. of the trenches.

TRENCH GEOLOGY:

Routine soil geochemistry by Mr. Mickle led to the discovery of a 400 ppb. Au anomaly in the bank beside an

overgrown logging road on the Snow #2 claim.

Subsequent trenching (pick and shovel) by Mickle and additional sampling led to analyses as high as 0.43 oz/T Au and 0.85 oz/T Ag in a piece of bleached, silicified tuff Breccia float.

Blasting and additional trenching were undertaken in order to expose bedrock.

Results of the 26m. of trenching are shown in Figure 080-80-3.

The dominant rock type exposed is a siliceous, grey-green intermediate (dacitic?) lapilli tuff or tuff breccia containing traces of pyrite. Major fracture trends are N.W. and N.E., with S.W. and S.E. dips, respectively. Fracture and alteration intensities increase towards the N.E. striking, 65 S.E. dipping, 0.5m. wide fault exposed in the longest of the trenches (figure 080-80-3.) Here, fractures are coated with a buff and occasionally rust coloured clay mineral. Fluids at one time moving through these fractures, have bleached and altered the tuff for up to one cm on either side of fractures.

A black cherty tuff crops out in a trench 10m S.W. of the aforementioned area and contains elongated stringers of fine grained pyrite. These bands have an average attitude of 016/50 N.W. and may reflect bedding.

Additional trenching further to the west (Figure 080-80-3) exposed a dark grey porphyritic andesite and intermediate tuff breccia. The latter exhibits braided faulting which cuts the clay overburden. The faulting is identical in appearance to that exposed in the largest trench and is possibly its continuation to the S.W. This indicates a very young (post-glacial) age for the fault system, probably representing a reactivated former fault splay off the Sandspit Fault.

Soil analyses of the fault gouge are shown in Figure 080-80-3. An anomalous Au value of 0.21 oz/T was obtained from this material.

Other rock analyses from the trenches gave Au values ranging from 0.002 to 0.072 oz/T and corresponding arsenic in excess of 1000 ppm.

DRILL PROGRAM:

In order to test the showing at depth a Homelite 1130 G Packsack XRP Drill was used.

The fractured nature of the rock and proximity of drilling to the fault greatly hampered progress, and after several unsuccessful attempts with no core recovery, 3 holes were eventually drilled for a total of 54 feet (17 metres).

Drill logs, sections and assays are included in the appendix accompanying this report. Drill sites are plotted on Figure 080-80-3.

The grey-green intermediate lapilli tuff was intersected in all 3 holes. Disseminated pyrite was the only mineral observed, varying in quantity from trace to approximately 0.5%.

Core recovery in the fault zone ranged from 4% to 20% versus 45% to 75% in the tuff.

Gold and Silver assays of selected representative pieces of drill core indicated Au values below detection limits and Ag values ranging from 0.02 to 0.14 oz/T.

The core is stored in the Falconbridge Nickel Mines Ltd. warehouse-office complex located at 6415 - 64th St., Delta, B.C.

CONCLUSIONS:

No analyses in the 0.40 oz/T Au range were encountered either in bedrock exposed by trenching or in drill core. The

float which yielded these values may have been transported either by glaciation or movement along the postglacial fault.

Anomalous in-situ Au values occur only in fault gouge exposed by trenching. This indicates that fluids in the fault conduit were high in Au content.

An increase in Ag content with depth, or distance from the fault, is inferred by drill assay results.

RECOMMENDATIONS:

On the basis of results obtained to date, additional work is recommended on the Snow Property

Signed.

P. J. Burns
Project Geologist.

Appendix

FINANCIAL STATEMENT

Work done since June 12, 1979

1. R. E. Mickle Assessment Report (copy enclosed)
(Field work conducted prior to M.E.I.P. agreement but report prepared Dec. 1979)

Drafting and Map Preparation

3 days @ \$50.00/day Dec. 9-11,1979	150.00
2. Sam Z. Assessment Report (copy enclosed)	6636.56
3. P.B. Assessment Report (copy enclosed)	<u>3135.06</u>
Total	<u>9921.62</u>

4. Examination & Sampling by

Jim McD & J. Hugi 2 days Feb 5-6th

Salaries J.McD \$250/D x 2 days	500.00
J.Hugi \$120/D x 2 "	450.00
Airfare \$160 x 2	320.00
Accomodation \$30 x2 1 night	60.00
Meals 2 days/\$20/D x 2	80.00
Car 2 Days	60.00
Field Supplies	45.60
Groceries	6.50
Fuel	13.11
Airport Parking	6.00
Geochemical Analyses (rock)	<u>49.50</u>

1590.71

Sub Total 11,512.33

5. Trenching

K.H.C. & J. Hugi Trip

4days Feb 14-17th, 1980

Salaries: J. Hugi \$120/D x 4	480.00
K. Christensen \$120/D x 5	600.00
Airfare \$160 x2	320.00
Accomodation \$30 x 2 x 3 nights	182.70
Meals \$20/D x 2 x 4 days	160.00

Van rental 4 days	116.22
Gas	13.40
Groceries	44.87
Ferry	4.00
Parking	12.50
City of Vancouver	1.00
Explosives	150.00
Geochemical Analyses (rock)	<u>60.09</u>
	<u>2144.69</u>
	13,657.02

6. Examination, additional sampling of trenches

P.B. + L.Tihor 5 days 18-22nd Feb 1980

Salaries P.B. \$150/day x 5	750.00
L.T. \$150/ " "	750.00
Airfare \$160 x2	320.00
Accomodation \$30 x 2 x 4 nights	240.00
Meals \$20/day x 2 x 5 days	200.00
Van Rental 5 days	204.45
Misc Groceries	20.00
Parking (airport)	20.00
Geochemical Analyses (rock)	67.80
Field Supplies Topofil, Flagging	<u>25.00</u>
	<u>2597.25</u>

Sub Total 16,254.27

7.D.J. Drilling Company Ltd.

Wages R.A.Gibson and K.H.Christensen

8 days 1,770.96

Additional Expenses

Airfares x 2 Van'r - Sandspit - Van'r	320.00
Hotel	398.00
Groceries and Meals	273.15
Buget Truck Rental	234.29

P.W.A. Freight	403.85
Ferries	24.00
Gas	55.36
Drill Supplies	16.00
Diamond Bits	645.50
Equipment Purchased	31.79
Motor Repair	<u>68.16</u>

Total 4241.06

Sub Total 20,495.33

Geological Supervisor 150 x 7 days	1050.00
Core Boxes	100.00
Geochemical Analyses (core)	<u>42.50</u>

1192.50

Sub Total 21,687.83

8. Report Preparation

Drafting 2 days @ \$70/D	140.00
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Report writing, map reproduction	<u>150.00</u>
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290.00

Total 29,977.83



FALCONBRIDGE NICKEL MINES LIMITED

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V6E 2S1 Telex 04-53245
Telephone (604) 682-6242

February 20, 1980

Applied Geology
Ministry of Energy, Mines and Petroleum
Resources
Victoria B.C.

Dear Sir:

I, Patrick J. Burns, of the City of North Vancouver, British Columbia, hereby certify:

1) That I am a geologist, residing at 1217 Kilmer Road, North Vancouver, British Columbia with a business address at 700 - 1112 West Pender Street, Vancouver, British Columbia.

2) That I graduated with a BSc. (Honours) degree in geology from the University of British Columbia in 1973.

3) That I have practiced geology with Falconbridge Nickle Mines Limited from 1973 to 1980, excluding the period February 1st, 1978 to February 28th, 1979.

Dr. I. L. Elliott, Chief Geochemist with Falconbridge Nickel Mines Ltd. is an Honours Geology Graduate (1959) of the University of Manchester and holds a PhD. in Applied Geochemistry from the University of London (1962) and is a member of the Association of Professional Engineers of B.C.

Signed: _____

Patrick J. Burns, BSc

Approximate

NORTH Lat. 53° 11' 30" N
 est Long. 131° 47' 15" W
 ELEV. 5m (approx) A.S.L.
 BEARING -
 DIP Vertical (90°)

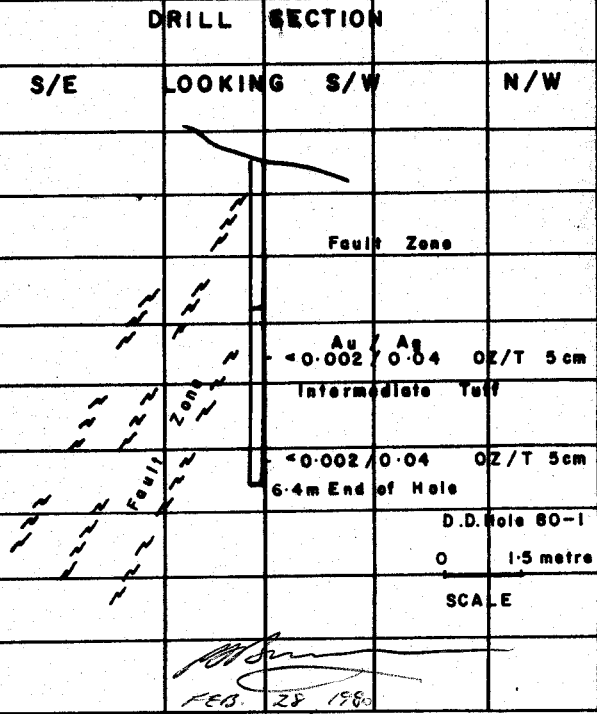
STARTED 23/2/80
 COMPLETED 24/2/80
 LENGTH 21 ft. (6.4m)

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY
Snow Group - Q.C.I.

PURPOSE To test area of HOLE No 80 - 1
Anomalous Au in soil & CLAIM Snow #2
rock. SECTION _____
 LOGGED BY P.J. Burns OFFSET _____
 PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.	Au	Ag		
(0-2.5m) 0-8'	Fault Zone. Rusty Weathering Buff Coloured Clay &					03/T		
	Bleached (Buff Coloured) Intermediate Lapilli	10333	21' (6.4m)	(5cm) 2"	<0.002	0.04		
	Tuff.	10332	20' (6.1m)	(5cm) 2"	<0.002	0.14		
	4% Recovery							
(2.5-6.4m) 8' - 21'	Grey-Green Intermediate (Dacitic) Lapilli							
	Tuff with Trace to 0.5% Disseminated Pyrite Grains, 1 mm or Less In Diameter.							
	8' - 12' - Very Broken; Rust-Coated Fractures; (2.5-3.7m)							
	Bleached in Part. 40% Recovery							
	(3.7-4.1m) 12' - 13'6" - Quartz-Feldspar And Unidentified							
	Pale Apple Green Mineral (Not Chlorite or Epidote)							
	in Vein @ 10° to C.A., Contains Trace Disseminated Pyrite							
	(6.1-6.4m) 20' - 21' - Very Broken, Chloritic Alteration,							
	45% Recovery							
	Overall Recovery For The Section From 8' to 21' (2.5-6.4m)							
	Approximately 75%							



V-11. (6.4m)
21' End of Hole

HOLE No. 80-1

Approximate

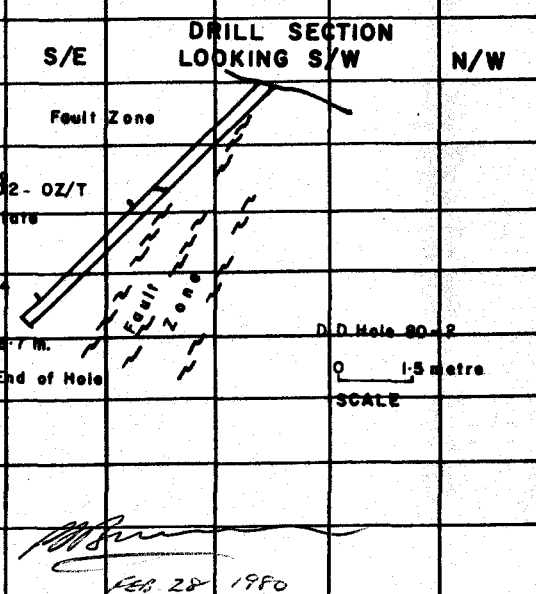
NORTH Lat. 53° 11' 30" N
 West Long. 131° 47' 15" W STARTED 24/2/80
 EAST _____ COMPLETED 26/2/80
 ELEV. 5m (Approx) A.S.L. LENGTH 22' (6.7m)
 BEARING 160°
 DIP -45°

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY
Snow Group - Q.C.I.

PURPOSE To test area of HOLE No. 80-2
Anomalous Au in soil & CLAIM Snow #2
rock. SECTION _____
 LOGGED BY P.J. Burns OFFSET _____
 PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.	Au	Ag		
(0-3.7m) 0 - 10'	Fault Zone. Rusty Weathering Buff Coloured Clay and					03/T		
	Bleached (Buff Coloured) Intermediate Lapilli Tuff	10334	13' (4.0m)	(5cm) 2"	<0.002	0.02		
(2.5-3.7m) 8'-10'	Very Broken, Rusty Coatings on Fractures, Trace Disseminated Pyrite	10335	20' (6.1m)	2" (5cm)	<0.002	0.04		
	20% Recovery							
(3.7-6.7m) 10' - 22'	Altered Grey-green Intermediate (Dacitic) Lapilli Tuff. Trace Disseminated Pyrite							
	12' 0" Vein @ 10° to C.A. With Quartz-Carbonate (+ Epidote?)							
(3.8m) 12' 6"	Quartz Veinlet @ 45° to C.A. 1mm Wide.							
(4.1m) 13' 6"	2mm Wide Pyrite + Quartz Veinlet @ 45° to C.A.							
	Bleached Grey Zone 1cm on Either Side. Same @ 15' 0"							
(4.9-6.4m) 16' - 21'	Less Alteration, Trace Disseminated Pyrite							
	70% Recovery							
(6.7m) 22'	End of Hole							



Approximate

NORTH Lat 53° 11' 30" N
 East Long. 131° 47' 15" W
 ELEV. 5m (Approx) A.S.L.
 BEARING 160°
 DIP -45°

STARTED 26/2/80
 COMPLETED 28/2/80
 LENGTH 11' (3.4m)

FALCONBRIDGE DIAMOND DRILL RECORD

PROPERTY
Snow Group - Q.C.I.

PURPOSE To test area of
Anomalous Au in soil &
rock.
 LOGGED BY P.J. Burns

HOLE No. 80-3
 CLAIM Snow #2
 SECTION _____
 OFFSET _____
 PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.	Au	Ag		
(0-2.1m) 0 - 7'	Fault Zone. Buff Coloured Clay and Very Broken, Bleached White Intermediate Tuff. With Rusty Coloured Coatings on Fracture Surface. Trace Disseminated Pyrite					03/T		
	15% Recovery							
(2.1-3.4m) 7' - 11'	Blue Grey Intemediate (Dacitic) Lapilli Tuff. Bleached Alteration Decreases With Depth (Away From Fault Zone). Very Broken, Traces of Disseminated Pyrite Throughout.	10336	8' (2.5m)	2" (5cm)	<0.002	0.05		
	45% Recovery							
11' (3.4m)	End of Hole							

DRILL SECTION
 LOOKING S/W
 N/W

Fault Zone
 Intermediate Tuff
 Au / Ag
 5cm. 0.002 / 0.05 OZ/T

3.4 m.
 End of Hole

D.D. Hole 80-3

0 1.5 metre
 SCALE