

DIAMOND DRILLING



42B13NW0205 13 WALLS

010

TOWNSHIP: walls

REPORT NO.: 13

WORK PERFORMED BY: Falconbridge Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 698385	GO-2-84	230m	Feb/84	(1)

NOTES: (1) #145-84

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION L1W: 1+27N DIRECTION 130° DIP -45° HOLE No. 60-2  
 LOGGED BY J.R. MORRISON CASING GM SHEET No. 1  
 STARTED 18 FEB. 84 CORE SIZE BQ CORRECTED TESTS 30m: 46°  
 FINISHED 23 FEB. 84 60m: 45° / 90m: 43 1/2° / 120m: 4  
 PROPERTY GERVAIS OPTION, OBA, ONTARIO 150m: 35 1/2° / 130: 29° / 210: 26

FROM M	TO M	M	DESCRIPTION
0	6.0	6.0	Overburden
6.0	170.15	164.15	<p><u>Mafic amphibolite</u> (mafic metavolcanics)                      with numerous interlayered felsic bands (felsic meta-tuffs)</p> <ul style="list-style-type: none"> <li>- mafic amphibolite predominantly layered in texture, fine grained dark green - layers generally delicate, probably representing primary layering in mafic tuffs.</li> <li>- significant sections of amphibolite also appear more massive, fine grained to medium grained with structures preserved which may be pillow selvages</li> <li>- included within the massive amphibolites are sections with gabbroic texture, probably thick flows or subvolcanic sills</li> <li>- narrow sections are altered to brown chlorite - quartz - carbonate - pyrrhotite, probably minor fault zones</li> <li>- alteration of the unit very minor, limited to minor chlorite associated with small scale(?) faulting, calcite and milky quartz veining</li> <li>- sulphide mineralization is generally weak ranging from trace to &lt;1% combined pyrite - pyrrhotite with local accumulations of pyrite up to 5% in narrow leucocratic</li> </ul>

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 2.  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		bands within the layered sections and up to 10% pyrrhotite in the chloritic fault zones
		6.2-6.9 - <u>feldspar porphyry</u> (possibly a lapilli tuff unit) - minor po fracture filling, clots of coarse muscovite
		7.2-8.0 - <u>feldspar porphyry</u> as above
		8.7-8.9 <u>chloritic shear zone</u> - healed by quartz
		9.0-9.2 <u>chloritic shear zone</u> healed by quartz
		13.1-13.4 <u>feldspar porphyry</u>
		28.0-28.2 <u>felsic tuff</u> aphanitic minor sericite, sulphides ni
		28.2-28.6 <u>feldspar porphyry</u>
		28.6-28.9 <u>felsic tuff</u> as above
		28.8-30.0 altered layered amphibolite - sheared, brown chlorite, quartz, carbonate, pyrrhotite
		30.0-30.8 - <u>felsic tuff</u> - sericitic foliated - planes Dr - nil

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## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 3  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO		DESCRIPTION
		33.25 - 33.4	- <u>feldspar porphyry</u>
		33.7 - 34.6	- <u>feldspar porphyry</u>
		34.6 - 34.8	- <u>felsic tuff</u>
		34.8 - 35.65	- <u>feldspar porphyry</u>
		36.15 - 36.3	<u>felsic tuff</u>
		36.3 - 36.85	<u>feldspar porphyry</u>
		37.4 - 37.85	<u>felsic tuff</u>
		47.2 - 47.5	<u>felsic tuff</u>
		50.4 - 51.5	<u>altered layered amphibolite</u> narrow brown chlorite zone throughout with associated carb, qtz - fault zone
		52.7 - 53.5	<u>feldspar porphyry</u> - more equigranular, even textured than above, weakly foliated more likely intrusive unit
		54.5 - 54.8	<u>feldspar porphyry</u> - as previously described - probably a tuffaceous unit
		59.1 - 59.2	milky <u>quartz vein</u> . minor sulphides

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## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 4  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		59.2 - 65.2 <u>gabbroic massive amphibolite</u> - thick volcanic flow or subvolcanic sill
		69.3 - 70.0 <u>feldspar porphyry</u> - appear graded with unit coarsening downhole - crystal or lapilli tuff - pyrite - trace
		75.1 - 75.6 <u>felsic tuff</u> - pyrite - trace minor sericite
		75.6 - 76.05 <u>feldspar porphyry</u>
		77.0 - 77.4 <u>altered amphibolite</u> - brown chlorite, qtz, carb, po.
		78.5 - 78.65 <u>feldspar porphyry</u>
		79.7 - 80.15 <u>altered amphibolite</u> as ab
		84.2 - 84.75 <u>feldspar porphyry</u>
		84.75 - 85.0 <u>altered amphibolite</u> as ab
		91.5 - 91.8 <u>feldspar porphyry</u>
		95.1 - 96.4 <u>feldspar porphyry</u>
		100.55 - 100.7 <u>feldspar porphyry</u>

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## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 5  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
102.3 - 104.1		- <u>layered felsic tuff</u> - cherty, probably in part chemical sediment - delicate layering preserved - carbonated, 1/2% pyrite
108.9 - 109.2		- <u>altered amphibolite</u> as above fault zone
111.1		- 5 cm milky <u>qtz vein</u>
111.75 - 113.0		<u>felsic tuff</u> , in part feldspar porphyry
112.7 - 112.85		<u>chloritic fault zone</u>
119.4 - 120.15		<u>feldspar porphyry</u> - possible stretched fragments up to 1 cm dia.
120.65 - 121.0		<u>felsic tuff</u>
122.4 - 123.5		■ <u>felsic tuff</u> - mod. to strongly sericitic, 1/2% pyrite
123.5 - 124.9		<u>feldspar porphyry</u>
124.9 - 125.7		<u>felsic tuff</u>
125.7 - 126.2		<u>feldspar porphyry</u>
126.2 - 127.0		mixed zone of both matrix and felsic bands pyrite range trace - 2%

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## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 6  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		127.4 - 127.65 - <u>feldspar porphyry</u>
		129.0 - 130.3 <u>feldspar porphyry</u>
		131.0 <u>quartz vein</u> 8 cm
		132.0 - 139.4 mig. - c.g. felsic unit (tuff?) with minor interbanded aphanitic zones
		140.8 <u>quartz vein</u> 8 cm
		142.6 - 143.0 <u>feldspar porphyry</u>
		143.7 - 143.95 <u>feldspar porphyry</u>
		144.5 - 145.0 <u>feldspar porphyry</u> with minor f.g. felsic tuff zones
		146.3 - 147.0 <u>feldspar porphyry</u>
		147.2 - 147.4 <u>felsic tuff</u>
		149.0 - 149.2 <u>feldspar porphyry</u>
		151.0 - 151.35 <u>feldspar porphyry</u>
		158.5 - 159.1 <u>feldspar porphyry</u>
		161.55 - 162.1 <u>feldspar porphyry</u>

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 7  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM M	TO M	M	DESCRIPTION
			162.8 - 163.5 <u>felsic tuff</u> + quartz veins
			165.5 - quartz vein (milky)
			165.65 - 165.8 <u>felsic tuff</u>
			169.3 - 169.7 • <u>felsic tuff</u>
			169.7 - 170.0 highly chloritic rubble zone at contact - fault
170.15	205.7		<p><u>Felsic gneiss complex</u> -                      (felsic metavolcanics)</p> <ul style="list-style-type: none"> <li>- upper contact sharp</li> <li>- highly varied texture but compositionally quartz - feldspar ± biotite unit with strongly developed planar fabric (biotite, flattened quartz grains, minor sericite)</li> <li>- the upper sections are relatively fine grained medium greyish pink colour showing evidence of remnant layering, however most bands appear to grade into each other rather than in sharp contact</li> <li>- the unit is relatively unaltered except for a light pervasive carbonation and occasional quartz vein</li> </ul>



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## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 8  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

FROM	TO	DESCRIPTION
		<ul style="list-style-type: none"> <li>- at approx. 185m the unit gradually becomes more coarse grained downwards with the occasional narrow fine grained band within it. - the remnant crude layering is still apparent in the coarse grained phase</li> <li>- sulphide mineralization ranges from trace to 1/2% averaging &lt; 1/2% overall; pyrite occurs as fine disseminated grains, fracture filling and as coarse blebs associated with clear quartz veins and clots</li> <li>- the Shenango #2 occurrence is hosted by this felsic unit with the surface showing projecting down dip to fall at approx 178.</li> </ul>
181.6 - 181.8		<u>felsic tuff</u> - aphanitic
181.95 - 182.05		<u>felsic tuff</u> "
191.0 - 192.8		<u>mafic amphibolite</u>
193.2 - 194.1		<u>mafic amphibolite</u>
194.4 - 194.7		<u>mafic amphibolite</u>
197.1 - 197.6		<u>felsic tuff</u> - aphanitic

# FALCONBRIDGE NICKEL MINES LIMITED

## DIAMOND DRILL RECORD

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 9  
 STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROPERTY \_\_\_\_\_

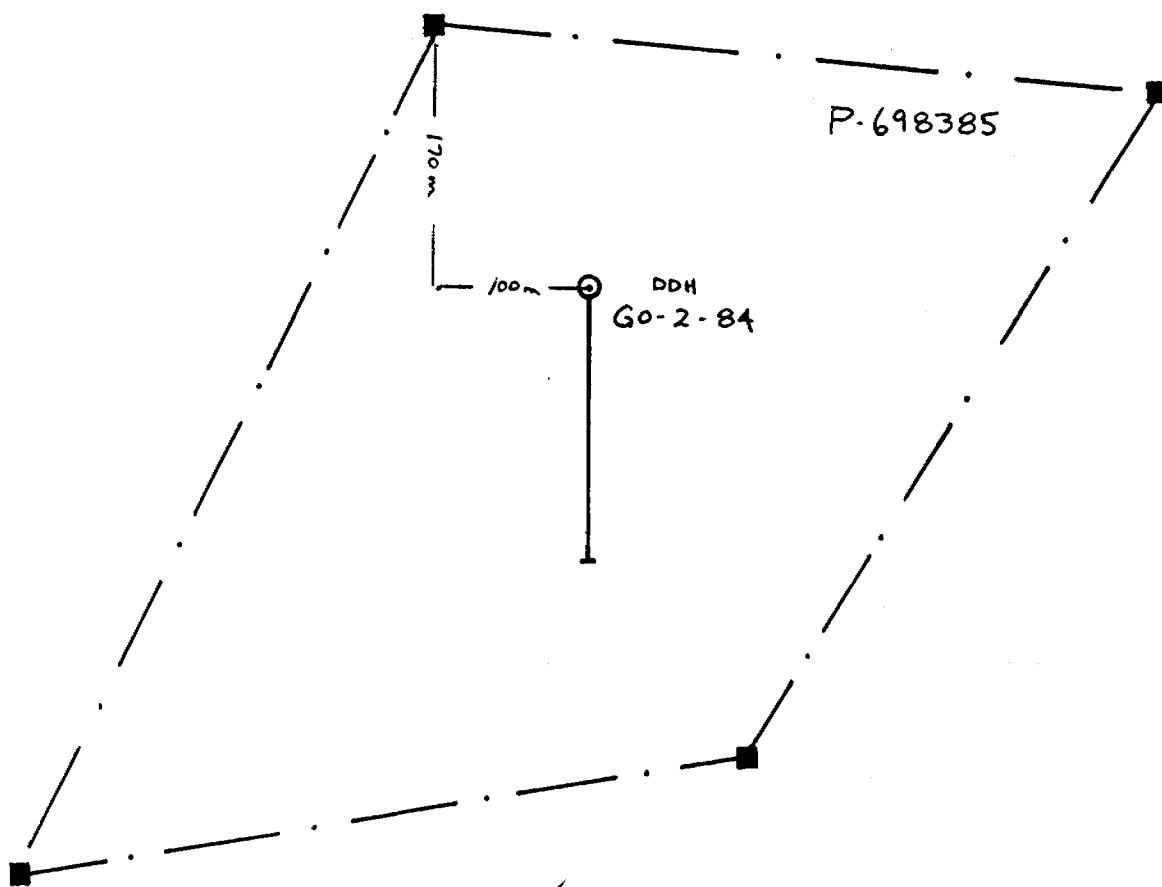
FROM M	TO M	DESCRIPTION
		- below approx 202m, unit becomes more fine grained
		203.2 - 203.9 <u>felsic tuff - aphanitic</u>
		205.7 - 205.9 <u>milky quartz vein</u> containing brecciated highly sericitic felsic fragments (angular, 1-2cm diameter) - includes 1/2% py. cpy + minor white cherty fragments
205.9	230.0	<u>Mafic amphibolite</u> - (mafic metavolcanic) - similar composition and textures as described above
		205.9 - 207.1 minor felsic zones interbedded within <u>granite vein</u>
		207.1 - 207.25 <u>granite vein</u>
		211.0 - 212.0 <u>felsic tuff - aphanitic</u>
		223.1 2 cm. gouge with chlorite quartz, carbonate
		223.1 - 223.45 <u>feldspar porphyry</u>
		224.8 - 225.55 <u>feldspar porphyry</u>

**FALCONBRIDGE NICKEL MINES LIMITED**

**DIAMOND DRILL RECORD**

LOCATION \_\_\_\_\_ DIRECTION \_\_\_\_\_ DIP \_\_\_\_\_ HOLE No. \_\_\_\_\_  
LOGGED BY \_\_\_\_\_ CASING \_\_\_\_\_ SHEET No. 10  
STARTED \_\_\_\_\_ CORE SIZE \_\_\_\_\_ CORRECTED TESTS \_\_\_\_\_  
FINISHED \_\_\_\_\_  
PROPERTY \_\_\_\_\_

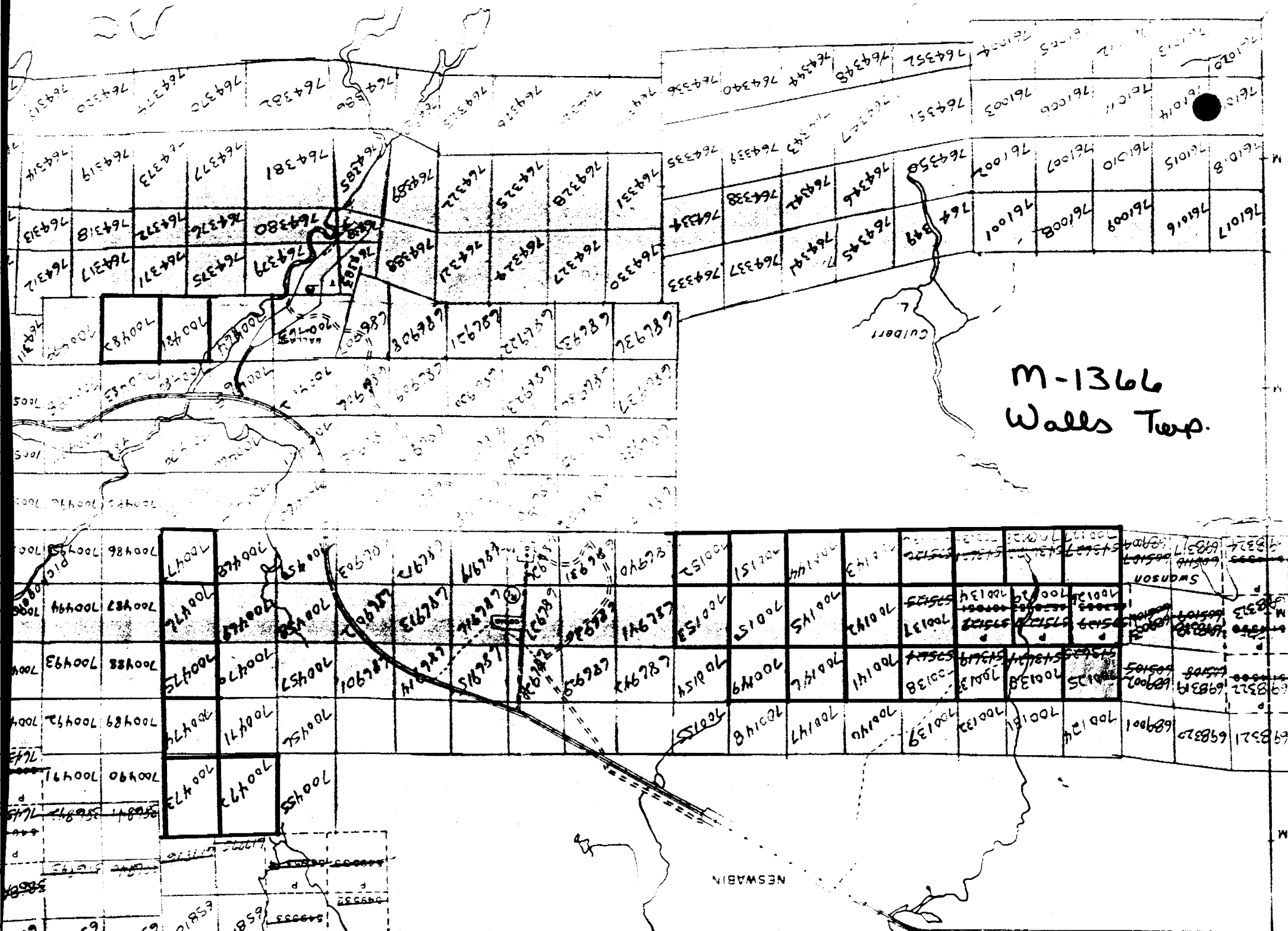
FROM	TO	DESCRIPTION
<u>M</u>		
230.0		225.7 - 226.1 <u>granite vein</u> End of Hole  JRM - April 1, 1984



*JRM*  
April 4 1984

DRILLHOLE LOCATION SKETCH

SCALE : 1 5000



M-1366  
Walls Twp.

NESWABIN

Culbert

SWANSON

SWANSON

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Name and Postal Address of Recorded Holder  
FALCONBRIDGE LTD.

P. O. Box 40, Commerce Court W., Toronto, Ontario M5L 1B4

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 755 days	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only)	see schedule attached								
<input type="checkbox"/> Manual Work									
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.									
<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.									
<input type="checkbox"/> Power Stripping									
<input checked="" type="checkbox"/> Diamond or other Core drilling									
<input type="checkbox"/> Land Survey									

All the work was performed on Mining Claim(s): P-698385

ONTARIO GEOLOGICAL SURVEY  
ASSESSMENT FILE  
RESEARCH OFFICE

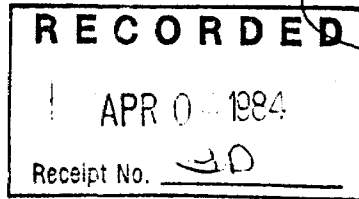
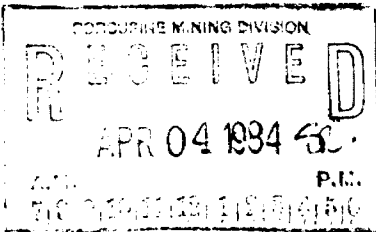
Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

MIDWEST DRILLING  
180 GREE CRESCENT  
WINNIPEG, MANITOBA  
R3J 3W1

RECEIVED

755 days available  
620 days used

135 days remaining



Date of Report: 4 April 1984  
Recorded Holder or Agent (Signature): *JRM*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
I. R. Morrison, 167 Wilson Ave., Timmins, Ontario P4N 2T2

Date Certified: 4 April 1984  
Certified by (Signature): *JRM*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific Information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

SCHEDULE:

P - 700125  
700126  
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700481  
700482

Twenty days credit to be applied to each claim (31 claims x 20 days = 620 days)  
755 work days claimed - 620 days applied as shown = 135 days retained for future  
consideration