



52J02SW0014 52J02SW0026D1 FOURBAY LAKE

010

DIAMOND DRILLING

Area: FOURBAY LAKE

Report No: 38

WORK PERFORMED FOR: FALCONBRIDGE LIMITED

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER []

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
Pa 475234	KB-73	981'	March/86	(1)
TOTAL	1 DH	981 FT		

NOTES: (1) # 100-86

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L 0+00/1+95S DIRECTION Grid North DIP -70° HOLE No. KB-73
 LOGGED BY J. DaCosta CASING 11.8m NW Casing SHEET No. 1
 STARTED March 16, 1986 CORE SIZE NQ CORRECTED TESTS 30m=71°; 60m=70°
 FINISHED March 23, 1986 90m=69°; 120m=69°; 150m=69°;
 PROPERTY King Bay 180m=69°; 210m=69°; 240m=69°;

FROM (metres)	TO	DESCRIPTION
		270m=69°; 299m=69°;
		<u>SUMMARY LOG</u>
0.00	10.80	<u>OVERBURDEN</u>
10.80	11.60	<u>TRONDHJEMITIC FELDSPAR QUARTZ PORPHYRY, PINK (5k)</u>
11.60	14.88	<u>MAFIC DYKE (5d)</u>
14.88	70.03	<u>TRONDHJEMITIC FELDSPAR QUARTZ PORPHYRY, PINK (5k)</u>
70.03	72.09	<u>MAFIC DYKE (5d)</u>
72.09	90.49	<u>TRONDHJEMITIC FELDSPAR QUARTZ PORPHYRY, PINK (5k)</u>
90.49	96.81	<u>MAFIC FLOWS (1)</u>
96.81	101.33	<u>CALCITE BRECCIA (6)</u>
101.33	137.32	<u>MAFIC FLOWS (1)</u>
137.32	139.93	<u>MAFIC FLOWS (pillowed) (1b)</u>
139.93	148.39	<u>CALCITE BRECCIA (6)</u>
148.39	160.88	<u>MAFIC FLOWS (pillowed) (1b)</u>
160.88	173.74	<u>MAFIC FLOWS (massive) (1a)</u>
173.74	188.69	<u>MAFIC FLOWS (pillowed) (1b)</u>
188.69	207.21	<u>MASSIVE MAFIC FLOWS (1a)</u>
207.21	230.42	<u>MAFIC FLOWS (pillowed) (1b)</u>
230.42	235.58	<u>DACITE LITHIC TUFF (2b)</u>
235.58	259.92	<u>MAFIC FLOWS (pillowed) (1b)</u>
259.92	299.00	<u>MAFIC FLOWS (massive) (1a)</u>
	299.00	<u>END OF HOLE</u>
		CONTRACTOR: <u>Midwest Drilling, Winnipeg, Manitoba</u>
		The core is being stored on the property.

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILES
 RESEARCH OFFICE
 AUG 11 1986
 RECEIVED

RECEIVED
 MAY 20 1986
 A.M. P.M.
 7 8 9 10 11 12 1 2 3 4 5 6

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION L 0+00/1+95S DIRECTION Grid North DIP -70° HOLE No. KB-73
 LOGGED BY J. DaCosta CASING 11.8m NW Casing SHEET No. 1
 STARTED March 16, 1986 CORE SIZE NQ CORRECTED TESTS 30m=71°; 60m=70°;
March 23, 1986 90m=69°; 120m=69°; 150m=69°;
 PROPERTY King Bay 180m=69°; 210m=69°; 240m=69°;

FROM (metres)	TO	DESCRIPTION
		270m=69°; 299m=69°;
0.00	10.80	<u>OVERBURDEN</u>
10.80	11.60	<u>TRONDHJEMITIC FELDSPAR QUARTZ PORPHYRY, PINK (5k)</u> Grey to dark grey in colour, medium to coarse grained. Consists of 20-30% 3 to 8mm feldspar phenocrysts which in some instances has a pink discolouration as well as being sericitized. Contains 5 to 10% blue-grey quartz eyes which are euhedral and 3 to 5mm in size. Matrix is dark grey in colour, fine to medium grained and consists predominantly of biotite and chlorite. Sparse quartz and quartz-carbonate veining, no mineralization observed, non-magnetic.
11.60	14.88	<u>MAFIC DYKE (5d)</u> Dark green in colour, fine to medium grained. Unit has chilled margins with a medium grained interior which contains 1-2mm feldspar crystals, consists of feldspar, biotite, chlorite and quartz sparse to moderate quartz and quartz-carbonate veining, no noticeable mineralization observed. CA. = 35°, 25°
14.88	70.03	<u>TRONDHJEMITIC FELDSPAR QUARTZ PORPHYRY, PINK (5k)</u> Same as above 10.80-11.60 Unit contains numerous xenoliths which are commonly dark green, massive, fine grained, and mafic in composition. The xenoliths range in size from 2 to 5cm in size.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73
 LOGGED BY _____ CASING _____ SHEET No. 2
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION
		16.10-17.23: altered F.Q.P. Light grey to green in colour. Unit is altered with chlorite and sericite, has a weathered appearance which gives it a porous texture.
		19.97-20.21: mafic dyke As above (11.60-14.88). Trace pyrite.
		20.40-20.73: mafic xenolith - xenolith fine grained and massive with recrystallized feldspar phenocrysts.
		25.36-26.25: altered F.Q.P. Same as above 16.10-17.23, trace pyrite.
		32.42-33.65: silicified-sericitised F.Q.P. Light grey to green in colour, fine grained, massive, 5% quartz-carbonate veins.
		37.52-39.32: mafic dyke As above - numerous quartz and quartz-carbonate veins.
		40.78-41.16: zone of hydrothermal metasomatism. Consists of pink k-feldspar veins and pink feldspar phenocrysts as well as calcite veins.
		47.53-47.71: mafic xenolith? Dark grey to green in colour, fine grained with 2-4mm feldspar phenocrysts.
		48.60-49.23: silicified-sericitised zone Light grey in colour, fine to medium grained, 5% quartz-carbonate veins, trace pyrite.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73

LOGGED BY _____ CASING _____ SHEET No. 3

STARTED _____ CORE SIZE _____ CORRECTED TESTS _____

FINISHED _____

PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION
		51.65-52.40: silicified-sericitized zone As above, 2% quartz-carbonate veins, trace pyrite.
		55.49-55.83: silicified-sericitized zone As above, 7% quartz-carbonate veins, trace pyrite.
		62.76-64.55: mafic dyke As above, trace pyrite, CA. 35°, 40°
		64.55-65.36: silicified-sericitized zone As above, trace pyrite, 2-5% quartz-carbonate veins.
		68.22-68.77: silicified-sericitized zone As above, trace pyrite, 2% pyrite along fractures, 2% quartz-carbonate veining.
70.03	72.09	<u>MAFIC DYKE (5d)</u> As above 11.60-14.88, unit contains 5-10% quartz and quartz carbonate veining, as well as 2-5% pyrite, trace to 2% po.
72.09	90.49	<u>TRONDHJEMITIC FELDSPAR QUARTZ PORPHYRY; PINK (5k)</u> As above 10.80-11.60 Pink discolouration of feldspars is more varied in this section. This discolouration tends to increase near fractures and silicified zones. Trace pyrite, 2-5% quartz and quartz-carbonate veins. 79.36-80.24: silicified-sericitized zone. (F.Q.P.) As above, 2% quartz-carbonate veining, trace pyrite.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73

LOGGED BY _____ CASING _____ SHEET No. 4

STARTED _____ CORE SIZE _____ CORRECTED TESTS _____

FINISHED _____

PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION
90.49	96.81	<p>87.73-88.56: silicified sericitized zone (F.Q.P.) As above, 2% quartz-carbonate veining, trace pyrite.</p> <p><u>MAFIC FLOW (1)</u></p> <p>Light to dark green in colour, fine grained massive, contains chilled margins with a coarser grained interior which has small (1-2mm) feldspar crystals.</p> <p>Consists of feldspar, biotite, hornblende, chlorite, and quartz, sparse to moderate quartz, quartz and carbonate veining. Trace to 2% pyrite. CA. - 65°</p> <p>96.58-96.81: mafic dyke</p> <p>Dark green, fine grained, massive rock, contains minor chilled margins, small 0.5-1cm xenoliths of mafic volcanics present in the unit. CA. 65°</p>
96.81	101.33	<p><u>CALCITE BRECCIA (6)</u></p> <p>Light to very grey, fine grained, massive, contains numerous fragments which are brecciated by 0.5-2.0cm calcite veins and fractures, fragments range in size from 1 to 3cm and angular in nature, contains several blue quartz carbonate veins, 10-15% quartz, quartz and carbonate veins, highly reactive to HCL. Non-magnetic, 2 to 5% pyrite.</p> <p>Some of the fragments have a tan to buff colour near those areas with a greater proportion of blue quartz veins.</p>
101.33	137.32	<p><u>MAFIC FLOWS (1)</u></p> <p>As above, contains 2-5% quartz, quartz-carbonate veining,</p>

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73

LOGGED BY _____ CASING _____ SHEET No. 5

STARTED _____ CORE SIZE _____ CORRECTED TESTS _____

FINISHED _____

PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION
		trace - 2% pyrite.
		105.37-105.58: quartz-carbonate vein, trace pyrite, low CA., approximately 15°.
		107.71-108.54: flow contact with intense carbonate veining and fracturing, as well as minor quartz veining, 2 to 5% pyrite.
		109.59-110.60: zone of intense carbonate veining, minor quartz veining, 5-10% pyrite, 2-5% po.
		118.66-120.76: zone of intense carbonate veining. Minor quartz veining, trace to 2% pyrite.
		127.03-127.89: mafic dyke
		Medium to coarse grained, green to dark green in colour, contains 1-2mm feldspar crystals as well as biotite, chlorite ± quartz. CA. 55°, trace pyrite.
137.32	139.93	<u>MAFIC FLOWS (pillowed) (1b)</u> Light green to dark green in colour. Fine grained, massive. consists of feldspar, biotite and chlorite. Sparse to moderate quartz, quartz and carbonate veining. Unit contains epidote pillow margins with carbonate-filled amygdules bordering these pillow rims. Trace to 2% pyrite, non-magnetic. CA. 35°
139.93	148.39	<u>CALCITE BRECCIA (6)</u> As above.

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73
 LOGGED BY _____ CASING _____ SHEET No. 6
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION:
148.39	160.88	<p>Unit contains 5-15% carbonate veins with 2-5% quartz carbonate veins. 2-5% pyrite, trace - 3% po., 1% chalcopyrite.</p> <p>Non-magnetic to slightly magnetic, reacts to HCL.</p> <p>147.50-147.52: bluish grey quartz vein trace pyrite, 2% po.</p> <p>148.04-148.07: bluish grey quartz vein, 1% pyrite, 3% po.</p> <p><u>MAFIC FLOWS</u> (pillowed) (1b)</p> <p>As above, 137.32-139.93</p> <p>Sparse to moderate quartz, quartz carbonate veining, poorly foliated, fairly massive, trace sulphides.</p> <p>149.33-149.38: quartz-carbonate vein, white in colour, 2% pyrite, 2% po., high CA.</p> <p>149.49-149.55: milky white quartz vein, trace - 2% pyrite, high CA.</p> <p>149.79-149.81: quartz-carbonate vein, white in colour, trace pyrite, CA. - 50°</p> <p>150.48-150.52: quartz carbonate vein, whitish blue, trace pyrite</p> <p>158.11-158.56: hyaloclastite zone</p> <p>Zone consists of epidotised fragments, 1-3cm long surrounded by quartz-carbonate vein material, trace pyrite</p> <p>159.68-160.11: hyaloclastite zone</p> <p>As above, trace sulphides</p>

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73
 LOGGED BY _____ CASING _____ SHEET No. 7
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION
160.88	173.74	<p><u>MAFIC FLOWS (massive) (1a)</u></p> <p>As above 101.33-137.32, sparse to moderate quartz, quartz-carbonate veining, poorly foliated-massive, trace pyrite, 1% po.</p>
173.74	188.69	<p><u>MAFIC FLOWS (pillowed) (1b)</u></p> <p>As above 137.32-139.93, sparse to moderate quartz, quartz-carbonate veining, poorly foliated to massive, trace pyrite, trace po. - 1% py + po along fractures.</p> <p>183.14-183.48 hyaloclastite zone</p> <p>As above, 15-20% quartz-carbonate material.</p> <p>85-80% epidotized fragments, trace pyrite.</p>
188.69	207.21	<p><u>MASSIVE MAFIC FLOWS (1a)</u></p> <p>As above, sparse to moderate quartz, quartz-carbonate veining, but this unit does contain numerous epidote "hairline" veinlets, trace pyrite, trace po. with po. + py stringers along fractures.</p>
207.21	230.42	<p><u>MAFIC FLOWS (pillowed) (1b)</u></p> <p>As above 137.32-139.93, sparse to moderate quartz, quartz-carbonate veining, poorly foliated to massive, trace pyrite, + po. CA. 50° (contact).</p> <p>207.83-208.18 quartz-carbonate vein.</p> <p>2% pyrite, 1% po., trace cpy., low core angle 15°, trace cpy.</p>

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73
 LOGGED BY _____ CASING _____ SHEET No. 8
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION
		209.56-210.02 sulphide zone - contains 3-5% pyrite as 4-5mm euhedral cubes, trace pyrite.
		218.47-218.53 blue quartz-carbonate vein. Trace pyrite + trace po., CA. = 75°
		221.03-223.93 haloclastite zone.
		As above (158.11-158.56), trace pyrite, trace po., 1% quartz-carbonate veining.
		Unit becomes gradationally more foliated and contains a greater abundance of sulphides in places 2-3% py. + po. Quartz, quartz-carbonate veining increases to about 5%.
230.42	235.58	<u>DACITE LITHIC TUFF (2b)</u> Light to medium grey, moderately to poorly foliated. Unit contains 1-2cm aphanitic grey to tan fragments, fragments are flattened and are crudely elongated and aligned. Matrix is fine grained and darker in colour than the fragments. Unit contains sparse to moderate quartz, quartz-carbonate veining, reacts violently to HCL. In places, unit is highly magnetic due to 2-5% disseminated po., trace-2% py., unit has gradational contacts.
235.58	259.92	<u>MAFIC FLOWS (pillowed) (1b)</u> As above, 137.32-139.93 Sparse to moderate quartz, quartz-carbonate veining. Trace to 2% pyrite. Upper contact fractured with small carbonate

FALCONBRIDGE NICKEL MINES LIMITED

DIAMOND DRILL RECORD

LOCATION _____ DIRECTION _____ DIP _____ HOLE No. KB-73
 LOGGED BY _____ CASING _____ SHEET No. 9
 STARTED _____ CORE SIZE _____ CORRECTED TESTS _____
 FINISHED _____
 PROPERTY King Bay

FROM (metres)	TO	DESCRIPTION
		veinlets. Lower contact contains breccia fragments of epidotised mafic material; matrix consists of quartz-carbonate. 237.71-238.61 hyaloclastite zone Zone contains numerous 0.5-1.5cm fragments of mafic material. Matrix consists of quartz-carbonate material. Zone has numerous thin wisp-like carbonate vein, trace sulphides. 238.97-241.13 hyaloclastite zone As above, 3-5% quartz, quartz-carbonate veining, trace sulphides.
259.92	299.00	<u>MAFIC FLOWS (massive) (1a)</u> As above, (90.44-96.51) Sparse to moderate quartz, quartz-carbonate veining, trace pyrite, CA. = 40° 262.35-262.83 quartz-carbonate vein Vein is only 2cm wide but has a very low core angle = 5°, trace pyrite. 283.48-283.52 milky white quartz vein Trace pyrite, CA. 85°
	299.00	<u>END OF HOLE</u> CONTRACTOR: Midwest Drilling, Winnipeg, Manitoba The core is being stored on the property.

ONTARIO GEOLOGICAL SURVEY
 ASSESSMENT FILED
 RES-AROM OFFICE

 AUG 11 1995

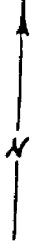
 RECEIVED



Po 487673

Po 437022

Po 475232



PATRICIA MING DIV.
RECEIVED
 MAY 29 1961
 A.M. P.M.
 7 8 9 10 11 12 1 2 3 4 5 6

150m

50m

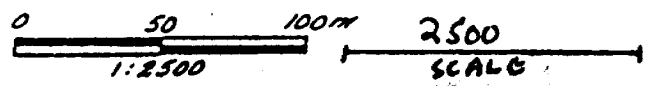
KB-73

Po 487674

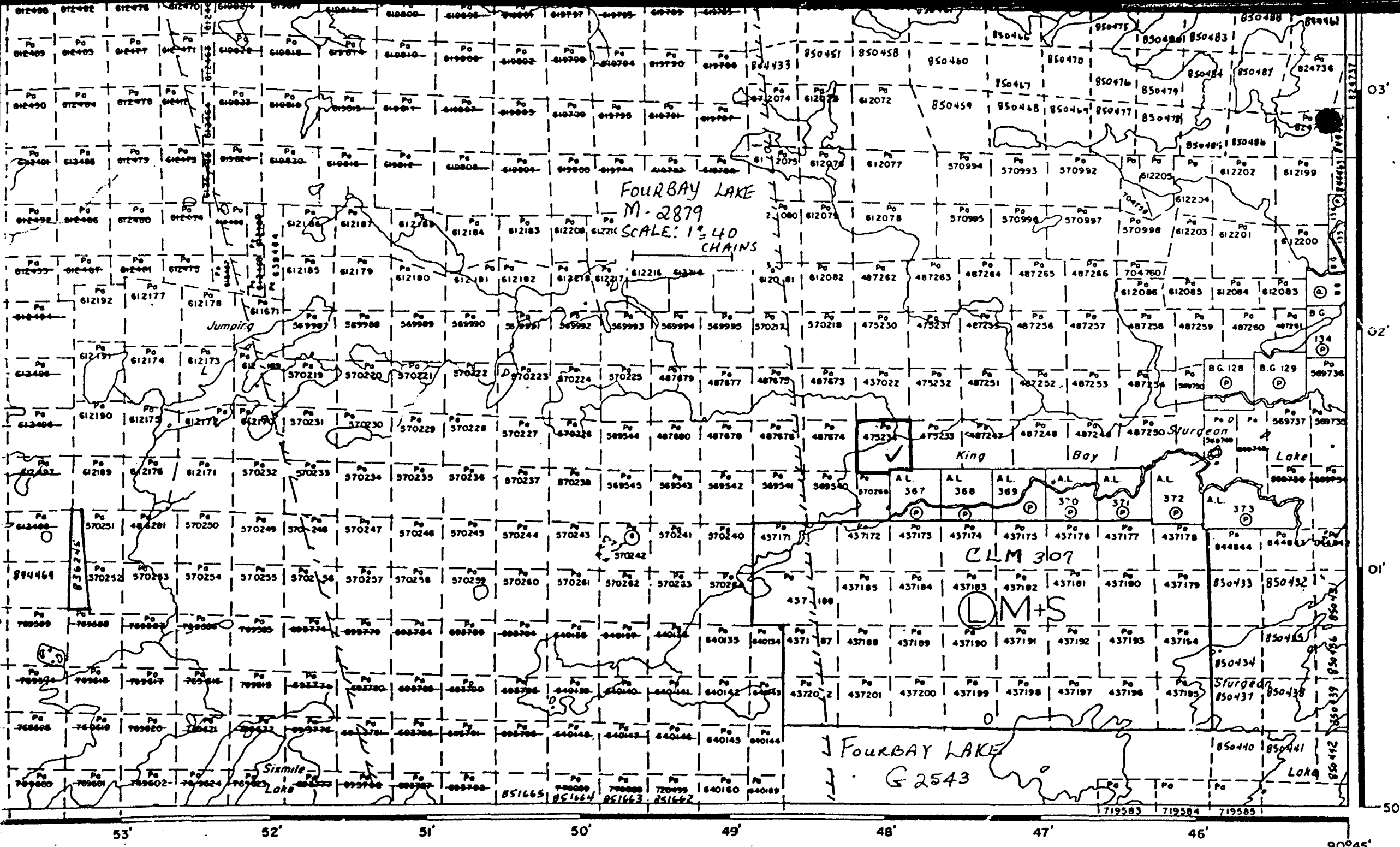
Po 475234

Po 475235

KING BAY



KB-73



FOUR BAY LAKE
M-2879
SCALE: 1"=40
CHAINS

King Bay
AL 367
AL 368
AL 369
AL 370
AL 371
AL 372

CLM 3107
DM+S

FOUR BAY LAKE
G 2543

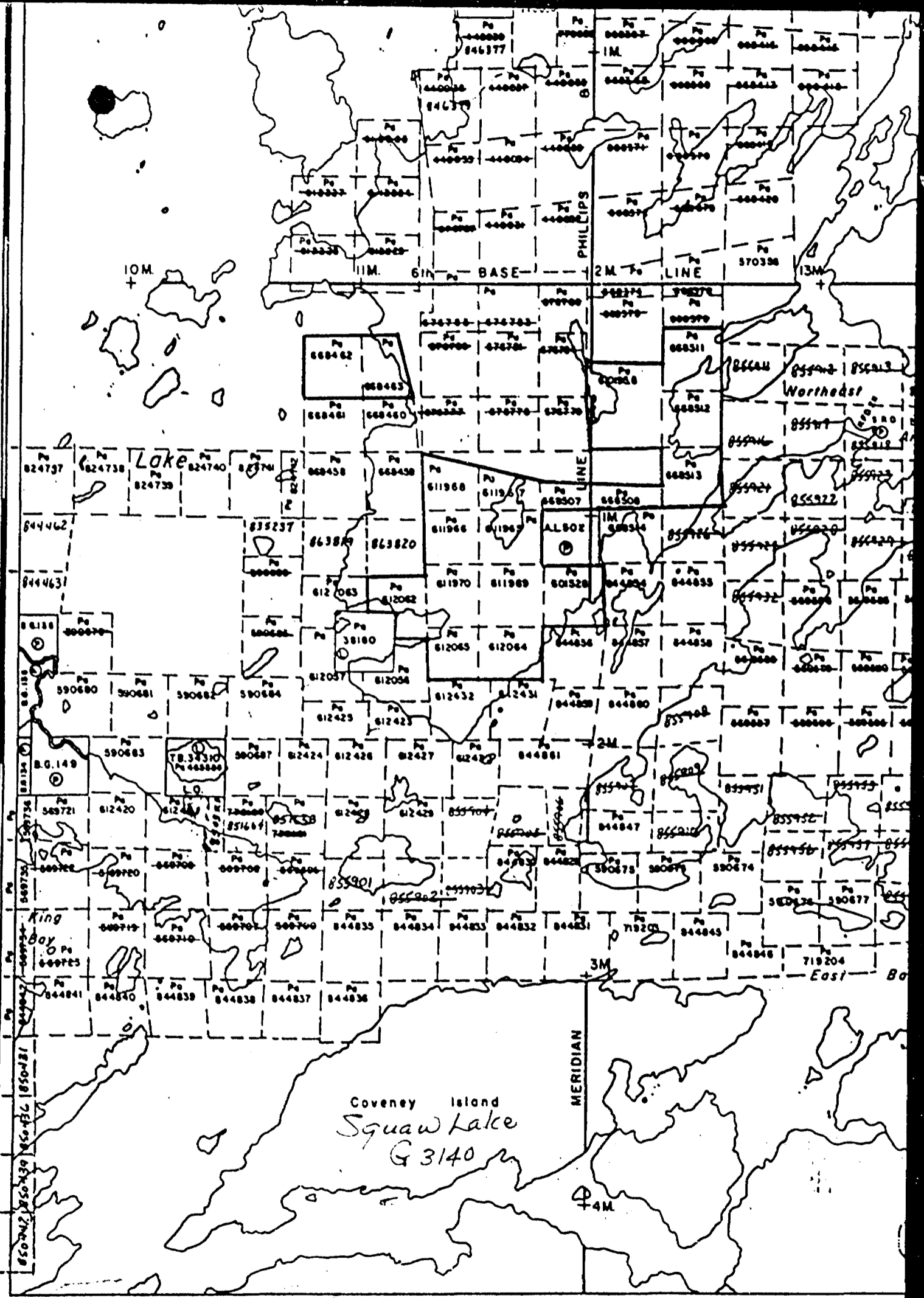
03'

02'

01'

50'

53' 52' 51' 50' 49' 48' 47' 46' 90°45'



44' 43' 42' 41' 40'



52J02SW0014 52J02SW0026D1 FOURBAY LAKE

900

Ministry of
Natural
ResourcesReport
of Work

#86-100

Instructions - Supply required data on a separate form for each
type of work to be recorded (see table below).
- For Geo-technical work use form no. 1362 "Report
of Work (Geological, Geophysical, Geochemical and
Expenditures)".

Assess. Lib. Resident Geologist

Mining Act

Name and Postal Address of Record Holder Falconbridge Limited, 40th Commerce Court West, Toronto, Ont. M5L 1B4	Prospector's Licence No FOURBAY Lake G2543 & Squaw Lake G3440
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Summary of Work Performance and Distribution of Credits

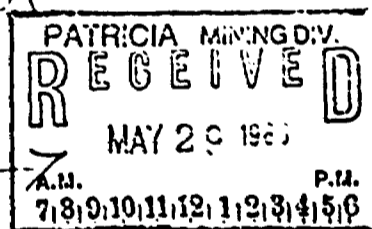
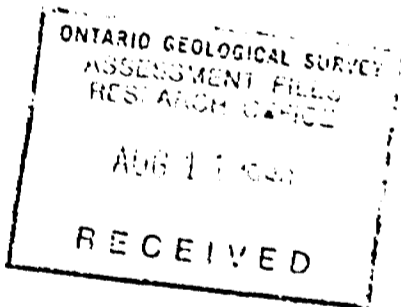
Total Work Days Cr. claimed 981	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting 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	Pa	836245	200	Pa	612064	40	Pa	611969	60
		668462	13		612065	40		611970	60
		668463	40		601528	40		612062	8
		668511	40		601958	10			
		668512	40		611965	60			
		668513	40		611966	60			
		668507	40		611967	60			
	668508	40		611968	60				

All the work was performed on Mining Claim(s): 475234 *981 days (KB73)

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

Drilling by Midwest Diamond Drilling.

DDH KB-73 (16 March - 23 March 1986) 299 m, (981 ft.). This work was performed after Falconbridge Limited became 100% recorded holder of these claims. (Claim Pa 836245 transfer recorded March 18, 1986, more than 200 ft. of diamond drilling completed on hole after transfer recorded).



Pa. 601528

Date of Report May 21, 1986 Recorded Holder or Agent (Signature) R.B.B.

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 R. Band, 100-3074 Portage Avenue, Winnipeg, Manitoba. R3K 0Y2	Date Certified MAY 26 '86	Certified by (Signature) R.B.B.
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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.		