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REPORT ON

AUGUST 1984

DIAMOND DRILL PROGRAM

McINTYRE BIRCH LAKE PROPERTY

RED LAKE MINING DIVISION, ONTARIO

(NTS 52-N-8)

FOR

CARMAC RESOURCES LIMITED

A.W. Dean, P.Eng.

September 30, 1984

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SUMMARY

The McIntyre Birch Lake property consists of eight patented mining claims located 70 air miles northeast of Red Lake. Ontario.

The property lies within part of the Birch-Uchi Lakes belt containing metavolcanic-metasedimentary rocks which are Early Precambrian in age. The Argosy mine, located three miles northwest of the property, operated intermittently from 1934 to 1952 milling 250,903 tons with an average recovery grade of 0.334 oz. Au per ton.

Rock types on the property generally strike east-west to north 55 west and consist mainly of mafic to intermediate metavolcanics with iron formation in places.

Following the discovery of gold on the property in 1928 several exploration programs were undertaken on the property. Gold occurs within a main shear zone some 300 feet wide associated with sections containing narrow quartz stringers and arsenopyrite mineralization.

In early April, 1984 drill holes 84-5 and 84-6, located 100 feet apart, in an unexplored area outlined a mineralized section with appreciable gold values over mineable widths. (Hole 84-5 intersected an estimated true width of 11.8 feet assaying 0.506 oz. Au per ton, cut to 1 oz. per ton).

During August 1984, ten diamond drill holes totalling 4,165 feet were $^{\downarrow}$ drilled, mainly in the untested area to determine strike and grade continuity of the mineralization intersected in holes 84-5 and 84-6.

Results of the drill program were discouraging establishing the mineralized sections to be discontinuous with no economic tonnage potential.

No further work is recommended.

INTRODUCTION

In early April, 1984 diamond drill holes 84-5 and 84-6, located 100 feet apart, outlined a mineralized section with encouraging gold values over mineable widths. (hole 84-5 intersected a section with an estimated true width of 11.8 feet assaying 0.506 oz. Au per ton cut to 1.0 oz per ton). These holes were located within a main shear zone in an overburden covered area that remained untested over a strike length of 1,000 feet. (1)

During the period August 9 to 25, 1984, ten diamond drill holes totalling 4,165 feet were drilled, mainly in the untested area, to determine strike and grade continuity of the mineralization intersected in holes 84-5 and 84-6.

The author was on the property as a geological consultant supervising both 1984 drill programs.

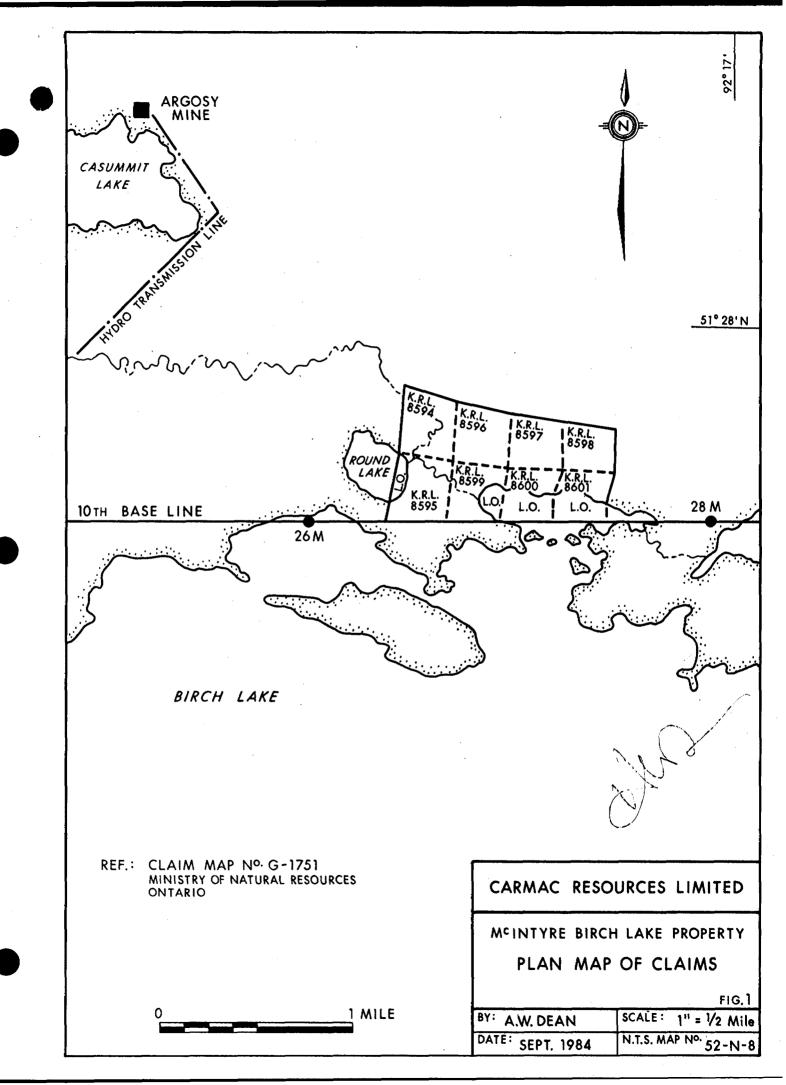
The following report reviews previous work and covers the results of the August 1984 diamond drill.

References to reports and records used by the author have been referenced by code numbers in parenthesis. The list of references with corresponding code numbers are contained in Appendix I.

PROPERTY (FIGURE 1)

The property consists of eight patented mining claims covering 398.92 acres and four licenses of occupation over water covering 69.26 acres as follows:

Parcel No.	Patent No.	Claim No.	Acreage
421	8332	KRL8594	56.83
422	8333	KRL8595	60.68
423	8334	KRL8596	51.40
424	8336	KRL8597	45.58
425	8337	KRL8598	40.50
426	8338	KRL8599	50.40
427	8339	KRL8600	47.95
428	8340	KRL8601	45.57
	TOTAL		398.91



Over lake waters the following Licences of Occupation are held:

Claim No.	L.O.No.	Water Acreage
KRL8595	3213	8.96
KRL8599	3214	7.50
KRL8600	3215	27.39
KRL8601	3216	25.41
	TOTAL	69.26

The property is currently held by Carmac Resources Limited under an option agreement with the owners, McIntyre Mines Limited.

LOCATION AND ACCESS (Figure 2)

The property is located on the north end of Birch Lake, 70 air miles northeast of Red Lake, Ontario and 35 air miles north of South Bay, Ontario.

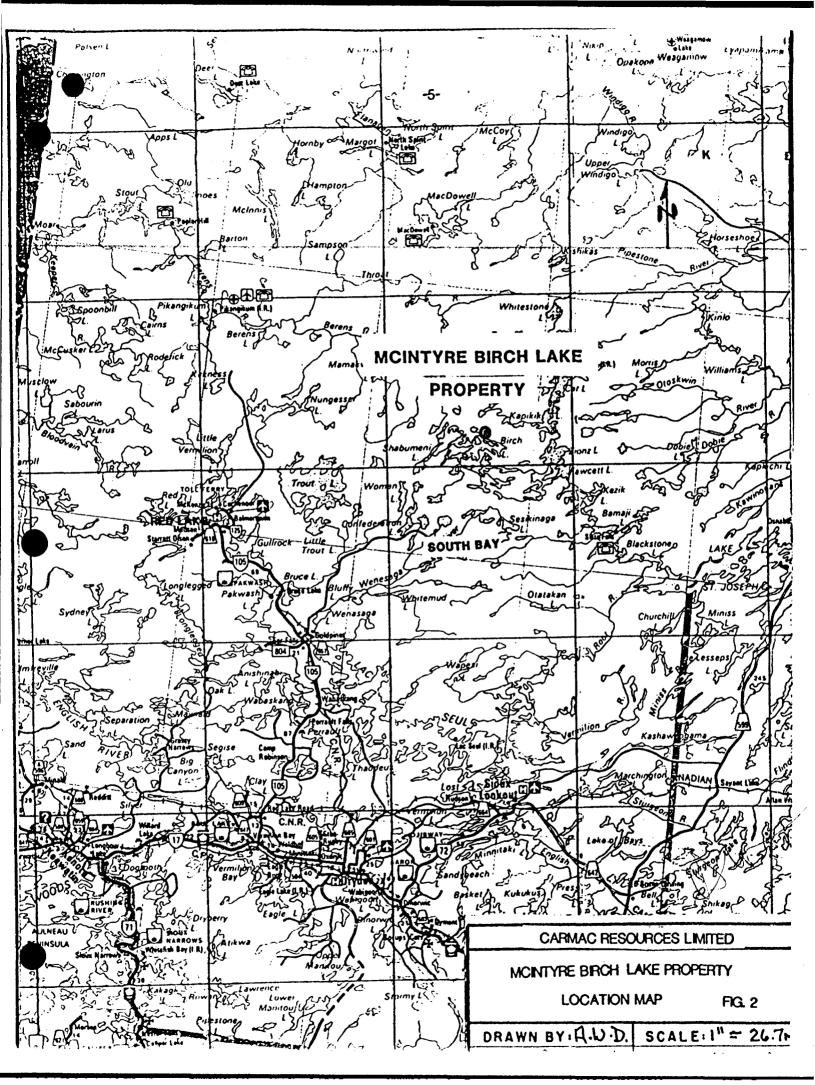
Access is by bush plane from Red Lake and feasible in winter by tractor from South Bay.

A hydro transmission line, in use at the Argosy mine until 1952, is located two miles northwest of the property.

TOPOGRAPHY AND TIMBER

The relief within the area is generally low with drainage sluggish and muskeg common. Some rock cliffs some 25 feet high exist however the terrain is generally flat to undulating where bedrock occurs near surface. Maximum relief above lake water level is some 60 feet.

The property is covered for the most part by conifers with a few scattered poplar and birch trees.



Forest growth is generally poor as it is limited by swampy ground and shallow overburden covering bedrock. Usually conifer stump diameters are in the 6 to 8 inch range with the largest some 35 feet high.

HISTORY

Following the discovery of gold on the property in 1928 several exploration programs were undertaken on the property. The following is a historical summary, for the most after Thorpe. (2)

- 1928 Discovery of gold-bearing quartz vein by Jack Miller, a McIntyre prospector. A boundary survey was completed in September and the claims brought to patent.
- 1929 Extensive prospecting and trenching by McIntyre personnel led to the discovery of other veins along the general strike.
- 1931 Five diamond drill holes at 300 foot spacing were put down northwest of line 20 west totalling 1,954 feet. One ore intersection, 0.38 ounces of gold over 13 feet, in hole No. 31-4 was obtained.
- Property leased to Cooper and Barry. A 60-foot vertical shaft was sunk and a 20 ton mill erected which produced at least 200 ounces of gold. Tailings suggest 1,200 tons were processed. A drift was driven approximately 50 feet below surface from the shaft area on line 20 west for a horizontal distance of 155 feet, only part of which was ore grade. Evidently most of the mill feed came from surface trenches.
- Approximately 2000 feet of diamond drilling was carried out by Cooper along the main shear zone strike. The results must have been discouraging as the property was returned to McIntyre afterwards.

- McIntyre put down 7 holes totalling 3,185 feet along the main shear zone strike between lines 27 west and 33 west to test the previously known veins for continuity. Occasional erratic values were intersected but these could not be correlated from hole to hole.
- 1975 A McIntyre field crew carried out a program of soil sampling, geophysical surveying, blasting, rock sampling and geological mapping. An H.E.M. survey indicated some conductivity in bands of iron formation. Several quartz-diorite intrusives were located by prospecting. These had not been recorded previously.
- Two holes 83-1 and 83-2 collared at line 16+20W totalling 1,504 feet were drilled north of the shaft shear zone area. A five foot section in hole 83-1 between 408 and 413 feet assayed 0.288 oz Au per ton.
- 1984 Six holes totalling 2,380 feet were drilled in March/April prior to break up. Holes 84-5 and 84-6 intersected encouraging gold values.

GENERAL GEOLOGY

Bedrock in the area is Early Precambrian in age and is part of the Birch-Uchi Lakes metavolcanic-metasedimentary belt within the Uchi Subprovince $^{(3)}$. The rock units within the vicinity of the property consist mainly of mafic and intermediate metavolcanics and magnetite rich iron formation extending easterly from Mink Lake to the north end of Birch Lake. Overlying these units to the north are clastic metasediments. Based on limited outcrop exposures and airborne magnetic data $^{(4)}$ a quartz-porphyry intrusive, some four miles long by one mile wide, is inferred to occur immediately west of the west boundary of the property.

Within the belt gold occurrences have been reported over a strike length of at least five miles from east to west. The Argosy mine, located three miles northwest of the McIntyre property, operated intermittently from 1934 to 1952. The mine produced 83,827 troy ounces of gold and 1,471 troy ounces of silver from 250,903 tons milled (3).

The average recovery grade over the period was 0.334 troy ounce gold and 0.006 troy ounce silver per ton. Ore was mined underground from several north trending quartz veins that extended to depths of 900 feet.

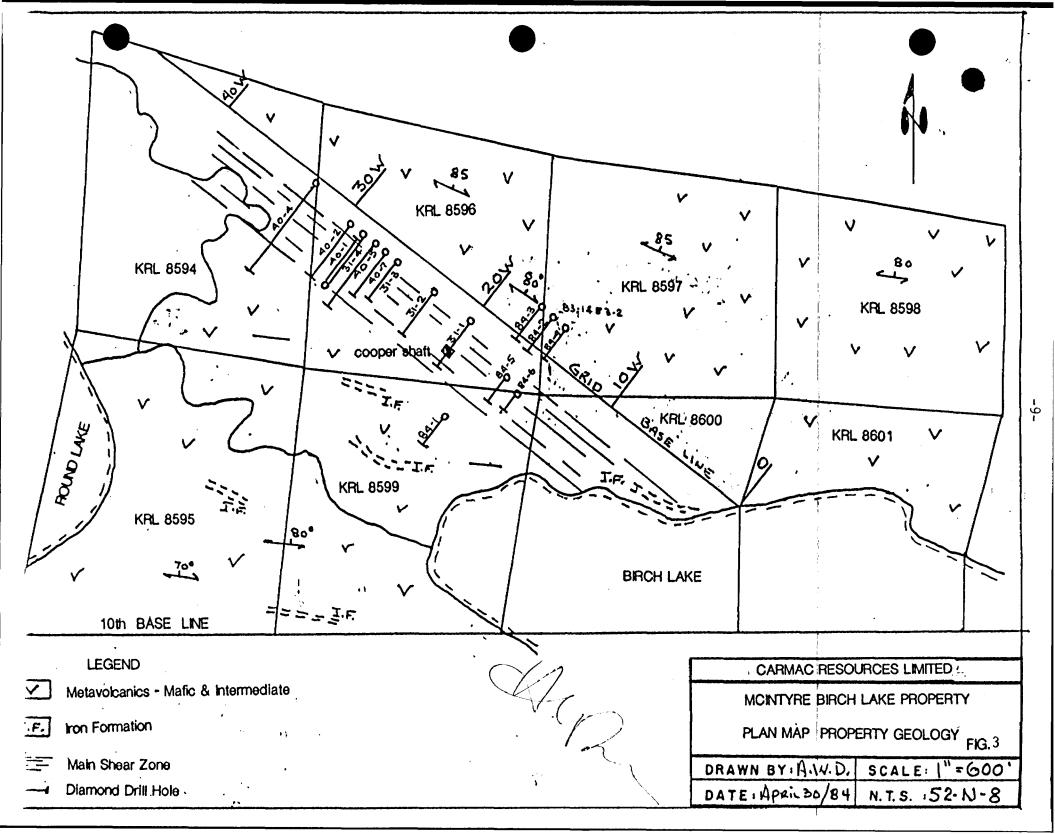
PROPERTY GEOLOGY (Figure 3)

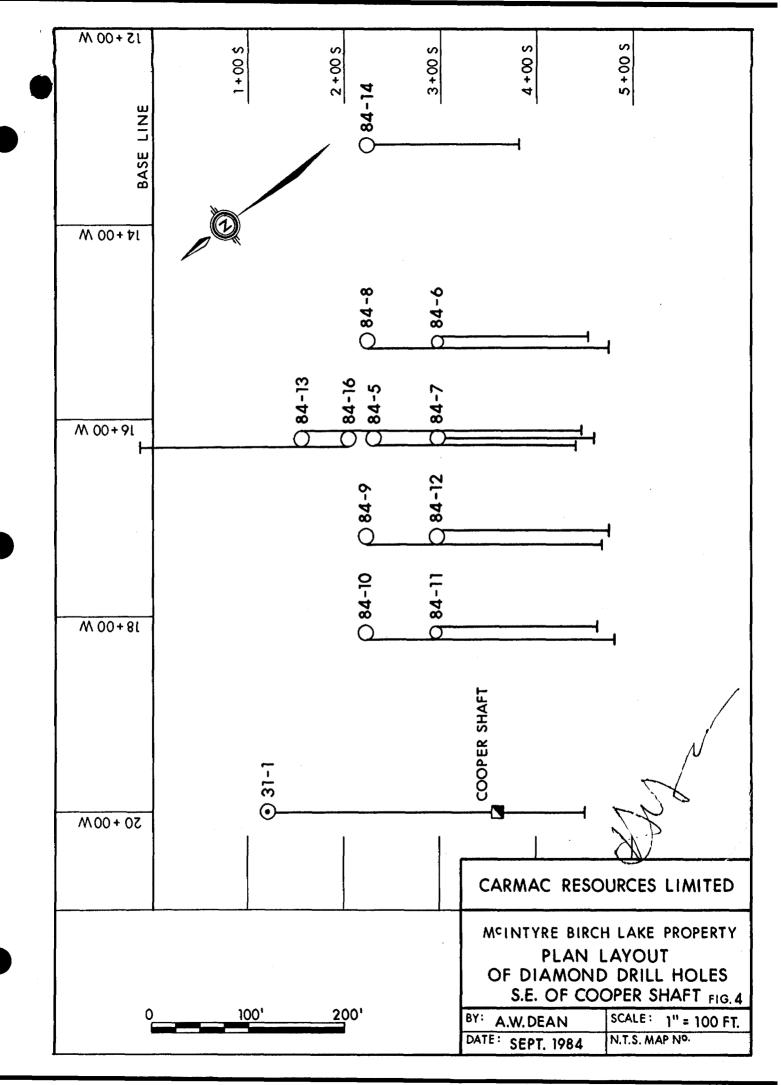
Rock types on the property consist mainly of mafic to intermediate metavolcanics generally striking east-west to north 55 west and dipping steeply 80 northeast. The metavolcanics commonly occur as chloritic schists. Trenching and diamond drilling has outlined weak to moderate shearing in a zone some 600 to 700 feet wide traversing the property apparently conformable to flow contacts. Within this zone is a main shear zone some 300 feet wide in which the Cooper shaft is located.

Banded iron formation has been mapped in several outcrops and has been outlined in diamond drill holes. The iron formation occurs as alternating thin bands of magnetite, sugary or cherty quartz and chlorite. The formation is generally narrow however attains a thickness of ten feet or more in places. The iron formation units for the most part appear to conform to the enclosing volcanics. Ground magnetic survey data and subsequent drilling indicates several bands of iron formation trending east-west converges with the main shear zone around line 15 west.

DIAMOND DRILL PROGRAM

Ten diamond drill holes totalling 4,165 feet (B.Q. core size) were drilled during the period August 9 to 25, 1984. Nine drill holes numbered 84-7 to 84-14 inclusive and 84-16, were drilled at minus 50 degrees on a grid pattern southeast of the Cooper shaft in the vicinity of holes 84-5 and 84-6 (Figure 4). The drill hole collar locations were spotted on a local survey grid established with a transit. The nine holes are located for the most part on grid lines spaced 100 feet apart. They tested the main area of interest over a strike length of 600 feet to a maximum depth of some 300 feet.





Hole 84-15 located at 1+00 South on line 35+00 West (Figure 5) was drilled south 37 degrees west at minus 50 degrees to 1,000 feet. The hole was undertaken to test the northwest extension of the main shear zone where an east-west shear zone on the adjoining Argosy property was inferred to project onto the McIntyre property.

Drill hole survey data is listed in Appendix II. Diamond drill hole geologicals logs in meters are contained in the pocket as Appendix III. Geological and assay sections showing the drill holes are presented in Figures 6A to 6F.

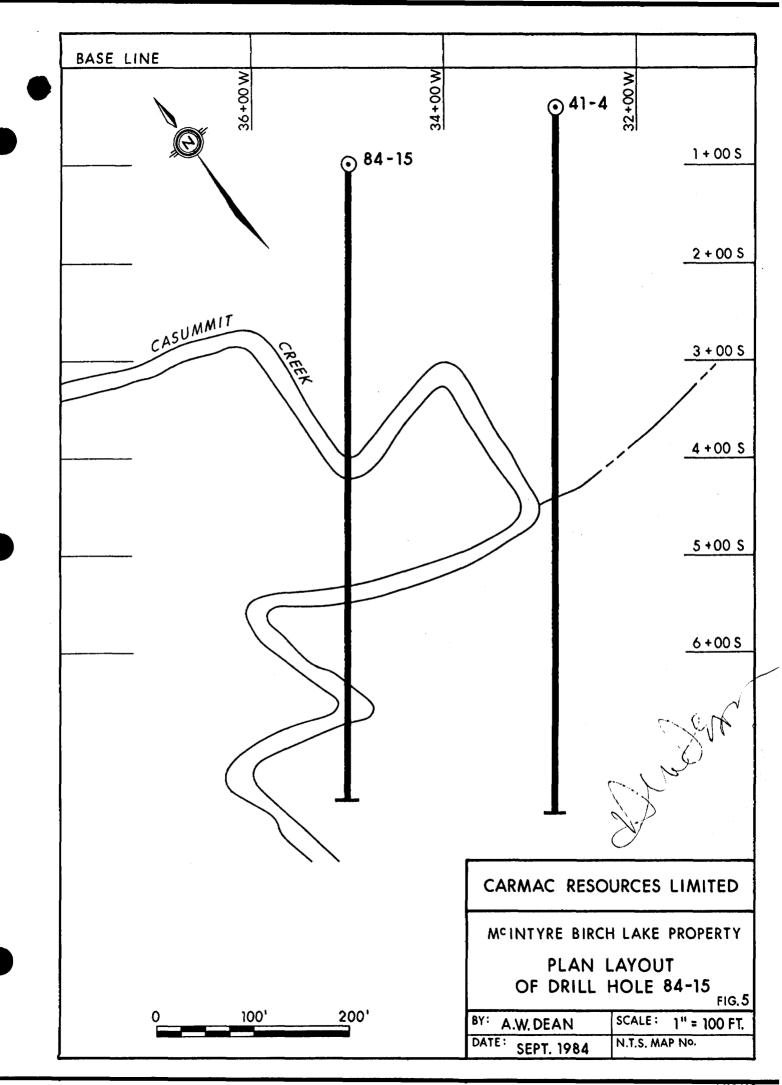
MINERALIZATION

Previous Drilling

The main shear zone, some 300 feet wide, was explored prior to 1984 by trenching and angle hole diamond drilling for 1,400 feet on strike northwest of the Cooper shaft on line 20 west. (5) Several narrow quartz veins were encountered with a few individual sections mineralized with arsenopyrite, pyrite and occasionally visible gold. The better significant intersections are reported to assay as follows:

Hole No.	Sample Width	<u>Gold</u>
	(feet)	oz. per ton
31-4	13.2	0.38
40-1	0.7	0.23
40-1	1.0	0.83
40-4	1.0	0.93
40-5	2.7	0.20

In early April 1984, diamond drill holes 84-5 and 84-6 were drilled at minus 50 degrees to test the projected main shear zone in an overburden covered area 350 feet southeast of the Cooper shaft. Drill hole 84-5



intersected two sections containing narrow quartz veins, arsenopyrite and pyrite mineralization, and visible gold in two places. Drill hole 84-6 drilled 100 feet south of 84-5 intersected the same sections however they were not as well mineralized. Assays of the better mineralized sections are summarized below: (1).

Hole No.	Core Interval (feet)	Sample Width (feet)	Gold oz per ton uncut	Gold oz per ton cut to 1 oz.
84-5	213.2-219.5	6.2	0.098	0.098
	263.1-267.2	4.1	1.078	1.000
	269.0-284.8	15.8	0.710	0.340
	288.4-293.3	4.9	0.204	0.204
84-6	97.8-101.4	3.6	0.218	0.218
	113.8-114.8	1.0	0.130	0.130
	177.8-181.1	3.3	0.066	0.006
	182.7-186.7	4.0	0.108	0.108

Current Drilling

The results of the August drilling program were extremely disappointing. A complete list of fifty-five samples assayed are contained in Appendix IV.

In the area southeast of the Cooper shaft, narrow quartz veins with arsenopyrite and pyrite mineralization was encountered in only four of nine holes drilled. The drilling established that the mineralization previously outlined in holes 84-5 and 84-6 has limited continuity in both strike and down dip projections within the main shear zone. Widths and corresponding assays of mineralized sections intersected in the August 84 program are sub-economic as listed below. (Assays greater than 0.050 oz. per ton).

Hole No.	Core Interval (feet)	Sample Width (feet)	Gold oz. per ton
84-7	54.1- 56.9	2.8	0.132
	68.6- 69.9	1.3	0.108
84-9	187.3-189.3	2.0	0.270
	199.8-200.8	1.0	0.088
	225.7-226.7	1.0	0.054
84-10	253.7-254.7	1.0	0.052
	325.0-326.0	1.0	0.670
	153.5-155.1	3.4	0.080
	178.8-180.7	1.9	0.094
	186.3-189.3	3.0	0.064
	251.2-261.7	10.5	0.055
84-14	264.4-266.0	1.6	0.062
	155.1-156.1	1.0	0.064

Several thin bands of magnetite rich iron formation, 1.0 to 3.0 feet wide, were intersected within meta-volcanics from section 17+20 west to 13+20 west. They appear discontinuous yet generally striking east-west converging with the main shear zone. Those containing pyrite were sampled with assays ranging from 0.020 oz. Au per ton to nil.

Hole 84-15 drilled on Section 35+00 west encountered one intersection with arsenopyrite assaying 0.052 oz. Au per ton over 1.7 feet. Evidence of the projected east-west shear from the Argosy property was not encountered.

CONCLUSIONS AND RECOMMENDATIONS

The August 1984, diamond drill program effectively tested the main shear zone southeast of the Cooper shaft where significant gold assays over mineable widths were previously outlined in holes 84-5 and 84-6. The narrow quartz veins with arsenopyrite and pyrite mineralization were established to be discontinuous with subeconomic gold values over mineable widths.

Thin bands of magnetic rich iron formation that occur within the metavolcanics from section 17+20 west to 13+20 west are not of economic significance. They appear discontinuous yet generally strike east-west converging with the main shear zone. Those containing pyrite were sampled with assays ranging from 0.020 oz. Au per ton to nil.

Hole 84-15, drilled at minus 50 degrees to 1,000 feet on section 35+00 west, tested the north west extension at the main shear zone. Only one intersection with arsenopyrite was encountered assaying 0.052 oz. Au per ton over 1.7 feet.

The main shear zone has been adequately explored establishing that the mineralized veins are discontinuous without ore reserve tonnage potential.

No further work is recommended.

Respectively submitted,

A. W. Dean, P.Eng.

CERTIFICATE

- I, Alexander W. Dean of 1327 Lake Bonavista Drive S.E., Calgary, Alberta, do hereby certify that:
- 1. I am a graduate of the Michigan Technological University holding a B.Sc. in Geological Engineering, 1958.
- 2. I am registered as a Professional Geologist of the Province of Alberta, and registered as a Professional Engineer of the Province of British Columbia.
- 3. I have practiced my profession for 26 years mainly in Canada and the U.S.A.
- 4. The accompanying report is based on my personal analysis of unpublished data provided by Carmac Resources Limited, reports and maps available from government sources and my direct geological supervision of two diamond drill programs on the property in 1984.
- 5. I have not, nor do I expect to receive any interest directly or indirectly in the property or in the securities of Carmac Resources Limited.

Dated at Calgary, Alberta, this 30th day of September A.D., 1984.

A.W. Dean, P.Eng.

REFERENCE LIST

Reference No.

- 1. Dean, A.W.
 1984: Report on McIntyre Birch Lake Property, Red Lake Mining
 Division, Ontario; for Carmac Resources Limited, April 30,
 1984.
- Thorpe, W.H.
 1975: Field work on Birch Lake Claims, report and maps prepared for McIntyre Mines Limited.
- 3. Thurston, P.C.Jackson, M.C. and Pirie, I.
 1981: Precambrian Geology of the Birch Lake Area, Kenora
 District (Patricia Portion); Ontario Geological Survey
 Preliminary Map P.2387, Geological Series, Scale 1:50,000.
 Geology 1977-78.
- 4. G.S.C.
 1960 Birch Lake, Kenora District, Ontario; Ontario Department of Mines, Map 883G. Scale: one inch to one mile.
- 5. Adams, N.D.
 1940 Report on McIntyre Birch Lake claims, Drilling Campaign,
 September 10 November 1, 1940, report prepared for
 McIntyre Mines Limited.

McINTYRE BIRCH LAKE PROPERTY DRILL HOLE SURVEY DATA

Drill Hole <u>No.</u>	Angle At Collar Degrees	<u>Latitud</u> e	<u>Departure</u>	Bearing Degrees	Depth <u>Meter</u>	
84-7	-50	3+00 South	L16+20W	S 37 W	77	253
84-8	-50	2+25 South	L15+20W	S 37 W	119	390
84-9	-50	2+25 South	L17+20W	S 37 W	116	380
84-10	-50	2+25 South	L18+20W	S 37 N	107	351
84-11	-50	3+00 South	L18+20W	S 37 W	77	253
84-12	- 50	3+00 South	L17+20W	S 37 W	85	279
84-13	-50	1+55 South	L16+20W	S 37 W	155	508
84-14	-50	2+25 South	L13+20W	S 37 W	123	403
84-15	-50	1+00 South	L35+00W	S 37 W	305	1000
84-16	- 50	2+05 South	L16+20W	N 37 E	106	348
		Total Drilled m	eters/feet		1,270	4,165

MCINTYRE BIRCH LAKE PROPERTY

CORE SAMPLE AND ASSAY RESULTS

AUGUST 1984 DRILL PROGRAM

DRILL HOLE NO.	SAMPLE NO.	CORE Interval (Meters)	SAMPLE WIDTH (Meters)	CORE INTERVAL (Feet)	SAMPLE WIDTH (Feet)	<u>GOLD</u> (Oz./Ton)	SILVER (Oz./Ton)	
84-7	08951	15.5 - 16.5	1.0	50.8 - 54.1	3.3	Nil	0.02	
	08952	16.5 - 17.35	0.85	54.1 - 56.9	2.8	0.132	0.07	
	08953	17.35- 18.35	1.0	56.9 - 60.2	3.3	Nil	0.03	
	08954	19.9 - 20.9	1.0	65.3 - 68.6	3.3	Nil	0.02	
	08955	20.9 - 21.3	0.4	68.6 - 69.9	1.3	0.108	0.02	
	08956	21.3 - 22.3	1.0	69.9 - 73.1	3.3	Nil	0.02	
84-9	08957	56.4 - 57.1	0.7	185.0 -187.3	2.3	Nil	0.02	•
	08958	57.1 - 57.7	0.6	187.3 -189.3	2.0	0.270	0.01	
	08993	60.9 - 61.2	0.3	199.8 -200.8	1.0	0.088	0.03	
	08994	68.8 - 69.1	0.3	225.7 -226.7	1.0	0.054	0.04	
	08995	71.2 - 71.5	0.3	233.5 -234.5	1.0	Nil	0.01	
	08959	74.1 - 74.6	0.5	243.0 -244.7	1.7	0.046	0.01	
	08960	74.6 - 75.2	0.6	244.7 -246.7	2.0	Nil	0.02	
	08961	77.35- 77.65	0.3	253.7 -254.7	1.0	0.052	0.03	
	08992	88.4 - 88.7	0.3	290.0 -291.0	1.0	0.020	0.02	
	08962	92.2 - 92.6	0.4	302.4 -303.7	1.3	Nil	0.02	
	08963	92.6 - 92.9	0.3	303.7 -304.7	1.0	0.008	0.02	
	08964	92.9 - 93.7	0.8	304.7 -307.3	2.6	Nil	0.02	
	08965	99.1 - 99.4	0.3	325.0 -326.0	1.0	0.670	0.07	
	08990	104.5 -104.9	0.4	342.8 -344.1	1.3	0.020	0.02	
	08991	108.1 -109.1	1.0	354.6 -357.9	3.3	Nil	0.01	

APPENDIX IV

DRILL HOLE NO.	SAMPLE NO.	CORE <u>INTERVAL</u> (Meters)	SAMPLE WIDTH (Meters)	CORE INTERVAL (Feet)	SAMPLE WIDTH (Feet)	GOLD Oz./Ton	SILVER Oz./Ton
84-10	08966	46.8 - 47.3	0.5	153.5 - 155.1	1.6	0.116	0.03
	08967	47.3 - 47.85	0.55	155.1 - 156.9	1.8	0.048	0.03
	08968	54.5 - 55.1	0.6	178.8 - 180.7	1.9	0.094	0.09
	08969	56.8 - 57.7	0.9	186.3 - 189.3	3.0	0.064	0.03
	08970	57.7 - 58.3	0.6	189.3 - 191.2	1.9	0.010	0.03
	08971	76.6 - 77.9	1.3	251.2 - 255.5	4.3	0.012	0.03
	08972	77.9 - 79.2	1.3	255.5 - 259.8	4.3	0.112	0.05
	08973	79.2 - 79.8	0.6	259.8 - 261.7	1.9	0.024	0.03
	08974	79.8 - 80.6	0.8	261.7 - 264.4	2.7	Nil	0.02
	08975	80.6 - 81.1	0.5	264.4 - 266.0	1.6	0.062	0.04
	08976	81.1 - 81.4	0.3	266.0 - 267.0	1.0	Nil	0.02
	08977	81.4 81.7	0.3	267.0 - 268.0	1.0	0.030	0.04
84-11	08978	53.7 - 54.0	0.3	176.1 - 177.1	1.0	Nil	0.02
84-12	08996	26.6 - 27.0	0.4	87.2 - 88.6	1.4	Nil	0.02
	08997	45.3 - 45.9	0.6	148.6 - 150.5	1.9	Nil	0.01
	08979	83.3 - 84.1	0.8	273.2 - 275.8	2.6	Nil	0.02
	08980	84.1 - 85.0	0.9	275.8 - 278.8	3.0	0.006	0.03
84-13	08981	98.0 - 98.5	0.5	321.4 - 323.1	1.7	мil	0.02
	08982	98.5 - 98.8	0.3	323.1 - 324.1	1.0	Nil	0.02
	08983	147.5 -148.3	0.8	483.8 - 486.4	3.6	Nil	0.02
84-14	08984	23.0 - 23.3	0.3	75.4 - 76.4	1.0	Nil	0.05
	08985	46.6 - 46.9	0.3	152.8 - 153.8	1.0	0.006	0.06
	08986	46.9 - 47.3	0.4	153.8 - 155.1	1.3	Nil	0.02
	08987	47.3 - 47.6	0.3	155.1 - 156.1	1.0	0.064	0.01
	08988	56.5 - 56.8	0.3	185.3 - 186.3	1.0	Nil	0.02

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DRILL HOLE	SAMPLE NO.	CORE INTERVAL (Meters)	SAMPLE <u>WIDTH</u> (Meters)	CORE INTERVAL (Feet)	SAMPLE <u>WIDTH</u> (Feet)	GOLD Oz./Ton)	SILVER Oz./Ton
84-15	08998	116.2 - 116.7	0.5	381.1 - 382.8	1.7	Nil	0.02
	08999	130.8 - 131.2	0.4	429.0 - 430.3	1.3	Nil	0.01
	09000	131.2 - 131.7	0.5	430.3 - 432.0	1.7	0.052	0.02
	09001	131.7 - 132.0	0.3	432.0 - 433.0	1.0	Nil	0.01
	09002	151.6 - 151.9	0.3	497.2 - 498.2	1.0	Nil	0.01
	09003	157.6 - 157.9	0.3	516.9 - 517.9	1.0	Nil	0.02
	09005	170.2 - 170.5	0.3	558.3 - 559.2	1.0	Nil	0.02
	09004	222.5 - 222.8	0.3	729.8 - 730.8	1.0	Nil	0.06
84-16	09006	102.8 - 103.1	0.3	337.2 - 338.2	1.0	Nil	0.02

PROPERTY MCTINTURE BIRCH LAKE HOLE NO. 84-7 SECTION FROM O TO 52.9 MULES STARTED Aug 9, 1984 SHEET NUMBER OUS COMPLETED Dug 10, 1984 LATITUDE A 3+00 SOUTH DATUM_ DEPARTURE L 16+20 WEST BEARING S 37° W ULTIMATE DEPTH 77.0 Metus. DIP-50°@ collare ELEVATION ___ PROPOSED DEPTH_ Hutus WIDTH OF SAMPLE SCUDGE DEPTH EFET FORMATION SAMPLE NO. GOLD 8 CASING: overborden 6-10.9 ANDESITE: GRESSI chloritized with moderate to 10.9 - 24.0 weak Achis tosity, live whe at /cont strugas 11 to Achistority @ 45% 50° to come Becaserowar of 5/carb very Anaro & propte 45 follows: 16.50 - 17.35: 30% irregular of Voins, < florite dith 31/2 outdool pressur 2 /2 pyrile 17.35- 18.35: Lhlorite, 1% privity bear of Avenopyrethe. 20.90 - 21.30: 50% 95/corb veris, 5 to 8% Avosco in chlorite, 1% payrette 24.0 - 32.0 HANDESITE: EIRSY GREEN with weal schistosity, occassional ats/cares stringer. Grussic texture 1rm 25.6 to 29.0 m @ 450/2 400de BASALT: DARL GREEN CHIOTHERD generally mossive with accorded 32.0-77.0 95/cars shinger and Ilron formations noted as Hollows 33.6-34.2: T.F. bauded 10% tg. mag, Sugary 35.90-35.94: banded, 15% frq. mag 20% duty at 65% chlorite 41.5 -41.8: 30% 80% sugary ata. Lig. mad 49.2 - 49.6: 43 about 53.2-52.9: banded, 10% v.f.g. mag N.M.P., TORONTO-STOCK FORM NO. BOI REV. 19/8

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PROPERTY MCINTURE BIRCH LAKE HOLE NO. 84-7 SHEET NUMBER TWO SECTION FROM ______TO 77.0 TALKS. STARTED_____ LATITUDE _____ DATUM _____ COMPLETED _____ ULTIMATE DEPTH 77.0 Meters BEARING DEPARTURE _____ PROPOSED DEPTH_____ ELEVATION DEPTH FEET FORMATION 57.4-58.1: J.F. banded, 10% f.g. mag, 30% sugar & 5, 60% chlorit Continuso 62.2 - 62.5: folded bonding, 15% v. (. g mag 85% Agany atg. 63.1 - 63.7! " as about. TEND OF HOLE AT 77.0 rutus. DIP TESTS Dip 725T DEPTIT 38 M. 10.9 MUTERS 77M 510 5చ° ETCH ANGLE 43.40 42.50 CORRECTED ANGLE N.M.P., TORONTO-STOCK FORM NO. 501 REV. 12/51

	PROPERTY 11 103-	HIRS DIRCH HAKE	Не	DLE NO	<u> </u>			
SHEET NUMBER _	ONE	SECTION FROMTO	119 me	tus STA	RTED_	wg10/1	34	
LATITUDE	2+25 South	DATUM		_ COI	MPLETED_	A5311/	84	
DEPARTURE L	15+20 West	BEARING 5370 WEST		_ UL	TIMATE D	EPTH 119	i MUTE	RS
ELEVATION		DIP-50° at collare		_ PRO	POSED DI	EPTH	·····	
DEPTH BRET	F	DRMATION	SAMPLE No.	WIDTH OF BAMPLE	GOLD \$	SCUDGE		T
0-4.8	CASING: OUN	surclen						
4.8 - 28.1	MASSI	epidole & enhedrace	ine him	c sho				 -
J8.1 - 28.7		zzu, medin grains			, Cut	- 11 to	schiple	ALLY MILY
J8.7- 31.0	ANDESITE: GR	ssional fine Live (se quai	00, W	lale Av	hastosi	teg enit	<u> </u>
31.0 - 56.0	ode en	crown chloritized, f consisie qts/carb st hedral projecte 25%, 45.0; white qts ven	mer our	vira e	pidate	# bled	w.+a	
50.0-119		th occassional 9t3,	cars	phing	er. Cos	ntam	y MA S Reve	ssing sol
N.M.P., TORONTO \$TO	CK FORM No. 501 REV. 12/51							

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PROPERTY MCINTYRE BIRCH LOKE HOLE NO. 84-8 SECTION FROM 50 TO 119 weters STARTED SHEET NUMBER TWO DATUM _____ LATITUDE _____ COMPLETED____ ULTIMATE DEPTH 119.0 MULUS DEPARTURE ____ BEARING _____ DIP PROPOSED DEPTH____ ELEVATION WIDTH OF BAMPLE SLUDGE GOLD \$ SAMPLE No. DEPTH FEET FORMATION Continued. 56- 119. 56.0 - 56.2: brushed @ 30 to core, 20% fig wag 20% squel a 5 60% chlorite As abone 63.4 - 64.4: 40% V.I.a. mag 66.8 - 67.2: 55% chlorite 72.6 - 73.0: banded, 15% La. Mag 30% 09/4 95 10% v.f.g. mag in cherty 60% chlotile will 28 f.g. pyrile 85.2-85.7: 10% Lig mag, 30% sqrug 5. 90.3- 91.1: 10% v.f.g mag it charty ata 127 <- 127.7. Na chose.

PROPERTY MCINTURE BIRCH LOKE HOLE NO. 84-9 SECTION FROM 0 TO 59.4 Metas STARTED Aug 11/84 SHEET NUMBER ONS LATITUDE A 3+25 South 146-ractus Aug 12/84 COMPLETED_ DATUM_ BEARING S-37°W ULTIMATE DEPTH 116 Meters. DEPARTURE L 17+20 WEST DIP-500 at collar PROPOSED DEPTH____ ELEVATION ____ SLUDGE DEPTH FEET FORMATION SAMPLE No. GOLD 8 -ASING: overburden 4.2 -4.6 I Row Formation: banded 10% fine gleaned magnetite \$ pocon 4.6 - 39.5 BASALT: DARK GREEN, chloritized , v.f.g, denually massive occassionar ats/carb shingh with epidote 38.1-38.7; i Rrugulae ats/carb versi ANDESITE: GREEN, five grained chloritized, massive with mittled 39.5 - 43.5 lexture. occiossional gtallards shipger. 43.5-47.0 ANDESITE PORPHYRY: modium arrained horriblende phenso crysts in aphanitic chloritized ground mass mascine: co nows tesite 47.0- 59.4 ANDESITE: GREEN, Khloritized alely ine live att/carb stringers 11 to schistosity @ 30 L to cond: Occassional mineralization of follows: 56.4-56.7: live gtz phisgers with 4% pyk, trace of anono 57.1-57.7: 20cm g/z veni@ 45°x to cae, 1% presero is <hlorite N.M.P., TORONTO-STOCK FORM No. 501 REV. 12/5

Later Hall Committee Commi

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PROPERTY MCINTYRE BIRCH LAKE HOLE NO. 84-9 SECTION FROM 59.4 m to 97.8 mitas STARTED SHEET NUMBER WO LATITUDE _____ DATUM_____ COMPLETED..... ULTIMATE DEPTH 116.0 inclus BEARING _____ DEPARTURE_____ PROPOSED DEPTH_____ ELEVATION FORMATION 59.4-61.2 ANDESITE : GREEN Chloritizes fire grain ANDESITE: GIREN, chloritis of with modulate perislopty with 61.2-71.5 nic live at / at care shingers with pytile go Hollows @ 68.9:- 10cm ab vew, 5% pure @ 71.2: 6 cm g/z veis 5 % Ryk BASALT: Darele gressy chloritized, massive to wealthy ochistose 71.5 - 78.1 the occassional ats/carb veis & sulphide unisualistation 74.1-74.6: 25 cm atavein with 3% largers 2 % pyr is chilin 75.1-75.2: 20% at 2% Archers 2% part in chlorite. 77.5-77.6:30% at 2% straeno. 11% rune is thirte 78.1-97.81 BASALT. to polistopity @ 15° & to core . Constrains 78.1-80.5: banded, 10% 1.d. mag 81.9 - 82.1: built @ 88.4m 88.0 - 89.0 : Dame with 89.9-91.2: 10% v.L. mag. 30% saying to 160% thlorite, bocassid pyR.

N.M.P., TORONTO-STOCK FORM No. 501 REV. 12/51

PROPERTY MCINTYRE BIRCH LAKE HOLE NO. 84-9 SECTION FROM 97.8m to 116.0 Mules STARTED LATITUDE _____ DATUM_____ COMPLETED____ ULTIMATE DEPTH 116.0 Trelas. BEARING____ DEPARTURE ____ PROPOSED DEPTH_____ ELEVATION _____ DEPTH ERET TO FORMATION 92.2-93.0: banded 5% mag 50% pg/4 hts. 456 chlitte, 5% dulphile from 92.4 to 92.9 10% Ansaro/5% pyre replacing magnetite 93.5-93.7: 4 cm 9tz veis , 35/2 sonseto, 1% pyr. 95.3-96.0: banded 30 %x/ g mag 70% saky gly massive, sill cot@ 25°4 to core. Ytudesite: Green, chloritized. 97.8 - 99.1 99.1-116. BASALT: DANIL GRESS chloritized weally Achistose to massine with occassion of 9tz/caleb offingers. Compairs Tron mit eralist ation comation and sulphide 99.1-99.4: 4cm at vein with 3% Antero, 21% Pyrelinchlolile 104.5 - 104.9: banded I.F. 10% Hg. made, sapply of to 108.1-109.1: banded@ 25°2 to core, 15% 110.7-111.3: 10% f.g. mac, 140% logry 1 to 10% chilice 111.8-112.5: 30% f.g. mag 40% ngry 95 END OF HOLE AT 116 METUS. 40TH OF TEST 4.2 m 116 m. GIM ETCH DANGLS 480 50.5°

10 M

Mc Tutyer Birch Laks

-	PROPERIT	THE BIVELA KI	H(DLE NO	3-1-10	<u></u>		
SHEET NUMBER _	GN2.	SECTION FROM	TO 39.7 M	itus sta	RTED_	109 12/	84	
ATITUDE _	2+25 South	DATUM			MPLETED_	Aug 13/	<u> 84</u>	
DEPARTURE L	18+20 WEST	BEARING 537° W	257 .	ַ טנז	rimate di	EPTH 10	1 meter	S
ELEVATION		DIP -50° @ coll	or	_ PRC	POSED DI	EPTH		
M(TW2	FORMATION			WIDTH OF SAMPLE	GOLD \$	BLUDGE		Γ
0-2.4	CASING: overbur	den.						
D.4 - 30·1	BOSALT: DAVELL G	iresso, chloritized	. gowal	y Mas	sive	with		
	occass	ional atg/cares v	rein as f	llows:				
	4.8-4.9: Cut @ 45° tocne.							-
	18-70-18-81: Dave							├-
	19.40-19.55: " 33.70 - 22.80: "							\vdash
	82.10 - 2	2.00.						+-
30.1-31.2	ANDESITE PORPHY	1Ry: GREY GREW	, med. ge	شره	nornh	lende p	lenos.	
	in chi	oritized Aphanitic	ground ma	so, v	assin	<u>`</u>		-
31.2 - 33.0	BASALT: Danie	Cicen , chloritize	o, gener	lly v	nassiu	e.		
১৯.০ – 33.9	ANDESITE PORPH	YRY: AS About.						\vdash
33.9 - 39.5	BASALT: DARK	GIKERN, Chluitiz	jed gen	nally	mass	ive		
39.5 - 39.7	IRON FORMATION	: <herty goort<="" td=""><td>3 with</td><td>10% V.</td><td>f.g. n</td><td>agneti</td><td><u> </u></td><td>_</td></herty>	3 with	10% V.	f.g. n	agneti	<u> </u>	_
								\vdash
	<u> </u>				<u> </u>	J		

0-510CK FORM NO. 501 REV. 12/51

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PROPERTY MCTUTYRE BIRCH LAKE HOLE NO. 84-10 SECTION FROM 39.7 TO 21.8 VILLS STARTED SHEET NUMBER TWO. LATITUDE ____ DATUM_ COMPLETED_ ULTIMATE DEPTH 107.0 Metus BEARING ____ DEPARTURE _____ DIP. PROPOSED DEPTH____ ELEVATION _ FORMATION GOLD S BASALT: HARL GREEN, chloritized. Mode Live ata/carb shinders and ineralization as follow -47.3: 20% at vein , Cut & 80° to che, childite with 1% whoshe 18 au 3-47.85: 13 cm gtz vein Chloite with D% Ardsero, 19 puik 54.5-55.1: Docm at ven, 1% drseno 196 pyk hackt dpe 56.8-57.7: 40% at veiss 4% Ausero, 2% rue in ahlai 57.7 - 58.3: 30 cm q to vein with Hovemaline, 2% propers is delorate BASALT: DARILGIRES, chloritized, massive. 62,0 - 65,2 ANDESITE PORPHRY: GREY GREEN, med granded how blende in 65.2-66.0 Applantic alond mass. massive. 66.0-81.8 BASALT: DARIL aren, chloritizes massone to wooldy with at / care years and misleralize ations as three 2 cm q to vers, oper of V.G., 1102% Avenue, 79.2: 50% ats vers with 4% drong is chlorite -79.8: 5cm ak vein, 18 Arseno \$190 pyr in chlorite 80.6-81.1: two 7cm gts veins 4% Aksno, 4% pyre in chlorite. 81.4-81.7: 10cm at vein , 2% Akseno N.M.P., TORONTO-STOCK FORM No. 801 REV. 12/81

9.4

PROPERTY. MC INTYRE BIRCH LAKE HOLE NO. 84-10 SHEET NUMBER THESE SECTION FROM 81.8m to 93.5 metrs. STARTED LATITUDE _____ DATUM_____ COMPLETED ____ ULTIMATE DEPTH 107.0 Metus BEARING _____ DEPARTURE DIP____ PROPOSED DEPTH_____ ELEVATION BASALT: Dk. green, chloritized, moderatly schistose with 93.5-107 13 ASAT: DK green chloritized cleseally massive, with TEND OF HOLZ AT 107 metus DIP TESTS DEPTH OF MEST. 3.4 m 61m 107m 490 ETCH ANGLS CORRECTED MUGLE 470 N.M.P., TORONTO-STOCK FORM No. 501 REV. 12/51

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•	PROPERTY MC LISTYRE BIRCH LAKE HOLE NO. 84-11							
SHEET NUMBER _	SECTION FROM TO_	77.0 W	tus STA	RTED A	US 13	84		
LATITUDE	Stoo South Datum		_ COI	MPLETED_	Aug 13/	184		
DEPARTURE	18+20 West. BEARING 5370 WEST.	<u> </u>	ULT	CIMATE D	ерт <u>н 7</u> 7	me-	ter:	<u>></u> .
ELEVATION	DIP-50° @ collar		_ PRO	POSED DI	EPTH			_
DEPTHERET HUS.	FORMATION	SAMPLE No.	WIDTH OF BAMPLE	GOLD \$	SCHDER			_
٥-3.0	CASING: OUR burden							
3.0-9.0	BASALT: Dark green, chloritized, we	ale Be	histos	by wit	hocen	581W	۵	-
	95/darb stringer.			I	1:15			-
9.0-11.0	Brosner: Danse queen, chloritizes u	oith M	loderA	le pchi	stority (a	434	- 18	con
11.0 - 16.0	BASALT: Highly sheared, weather	with	JRM	stain	, 10% c	ore (220	<u>·</u>
16.0-21.5	Brown T: Dank green, etchritized	with	mode	rate B	chistor	تب		-
21.5 -62.0	BASALT: Darele green, Chloritizes	gene	aller	massi	ue wit	e		-
	53.9-54.0: white qtz vein, co	- W.Th	o to co	ote.				
62.0 -66.5	BASALT: Danle gressen chloritiza, Stringers II to schistosity	moder	alvy a	chisto	e with	fin	e	Live
66.5-77.0	BASALT! Davele green, chloritizes 75.2-75.9: Bandes Iron format		10/4 % V.L.	MASSI	ue. 65% DGR	4,65	2019	- - Kettenik
NMB YORANG	IX FORM NO. SOL REV. 32/51					17-5		

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•	PROPERTY WE	wtyrz Dirch	1 LAKE	но	DLE NO.	84-11		
SHEET NUMBER	Two	SECTION FROM	TO_		STA	RTED		
LATITUDE	********	DATUM	- 50 - 				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
DEPARTURE		BEARING			ULT	IMATE DI	EPTH 77.	o metus
ELEVATION	DIP						EPTH	
DEPTH FSET		FORMATION		SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SCOP \$	
	ENDO	F HOLE AT 7	7.0 meters					
		Dip 7257						
DEPTH OF TS	57 3m = 55°	33m 54°	77m.					
ORRECTED AN	GLZ 47.5°	46.5°	440					
N.M.P., TORONTO-STOCK	FORM NO. SOI REV. 12/81			<u> </u>		<u></u>		

J.	PROPERTY / /	Jostyns	DIRCH L	AKS_	НС	LE NO.	84-12		. (
SHEET NUMBER	0NS	SECT	TON FROM	<u>>то_:</u>	55.5 m	tus STA	RTED 4	ug 14/	84		
LATITUDE	3+00 SOUT!	H DAT	UM		· · · · · · · · · · · · · · · · · · ·	_ COI	MPLETED A	Aug 15/	84		_
DEPARTURE <u>L</u>	17+20 WES	T BEAF	RING_53	low_		_ UL	TIMATE D	EPTH 85	5 m	ter	<u>S</u>
ELEVATION		DIP_	-50° at	collar	•	_ PRC	POSED DI	EPTH			_
DEPTH ESET		FORMATI	0 N		SAMPLE No.	WIDTH OF BAMPLE	GOLD \$	SCUDGE GOLD S			-
0-12.8	CASIUG: 6	verburde	<i>م</i>								_
12.8 - 18.5	ANDSSITE	: G1822.	chloritize	bom. 6	erate	schis	losita	with fi	بر و ا	ine	_
		shingus	11 to consit	it 438	३० र	core.					_
	(3	3.6 to 14.6m	: shear.		-	-					_
12.5-30.0	ANDESITE:	Gress.	chloritiza	o wea	Wy /	dustos	e with	n occurr	IWA	u	_
		7/3/carb	shinger.	36.6-27.0	: 10cm	9 +3/car	bve'n	180 Pur.			
30.0-37.3	ANDESITE'	. Grzy-	Green.	tive av	lained	mas	Sine 1	with a			_
		no Hec	1 textures	,		'					_
37.3 - 51.0	BASALT:	Dank a	neen abl	nit.o.)	300	and te	MILES	. 0 (.5)	14	_	
0,00			al atzica							:	
	나 :	5.3 - 45.9!	bounded,	10% fig.	mag 1	5% chli	te,75%	cherting	3 w.V	12 /2 /2	<u>-</u> 6рцк
	Ч	7.0- 48.5	: banded@3	o to cou,	10% V.	eg. mag	35% ch	uty 9tz,	SS%	chl	<u>site.</u>
	4	9.3 - 50.8	>: 5% f.g.	mag \$	V.f.q.	cluty	913.				_
51.0 - 55.5	ANDESITE PO	SRPHRY: G	TKIN green	s, med o	Raine) hoven	blende	phenos.	in		_
		< hloritized	grows r	nias,	MASSI	ب.		<u> </u>			
· · · · · · · · · · · · · · · · · · ·			*******				<u> </u>	<u> </u>			

10-5100K FORM NO. 501 KEV, 12/51

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PROPERTY MCTU tyres Birech Ludice HOLE NO. 84-12 SHEET NUMBER (WO SECTION FROM 55.5 m TO STARTED _____ LATITUDE _____ COMPLETED. ULTIMATE DEPTH 85.0 Melas. DEPARTURE_ BEARING PROPOSED DEPTH____ ELEVATION _____ DEPTH FRETA FORMATION BASALT: DARLIGREN, Chloritized, weally school fore with fine like 55,5-73.2 9 ta/carb shingers and boulded Ikon Formation As follows: 55.5-55.8: 20% fig mag. 80% V.f.g. Cherty gtz. 60.4-61.1: 15% fig mag, 10% chlorit, 75% vilig chaty 9th 65.5-65.9: 10% / g. mag, 30% chlority, 60% V. (.g. dluty g / 69.4-70.4: 30% tig. mag, 70% fig. dugory gts Brasmit: Dance green, chloritized, massive with f.g. quessic texture 73.2- 76.0 76.0-85.0 BASALT! DARL green, chloritizes, weal schoolsity with occassional ata/caris vein with sulphid min ealization as follows. 83.3-83.7: 5cm at / carb veto, 2 to 4 % pyrate 83.7- 83.95: 9/2/chert vein with 4% pyreile. 83.95 - 85.0: two Sem at vins, 4% pyrite & have of Arseno is chlorite. END OF HOLE At 85.0 metus DIP 72575. DEPTH OF TEST. 85m 38m 12.8 m ETCH ANGLE 480 50° 42.5° CORRECTED ANGLE 400

DRILLED BY

MCTITURE BINCH HOKE

	PROPERTY VICT	styre Birch hx	1ks_	нс	LE NO.	34-13		•		
SHEET NUMBER _	045	SECTION FROMO	то_	141.5 m	STA	RTED_	lugust 1	7/5	34	
LATITUDE	+55 SOUTH	DATUM			CO	MPLETED_	August	191	<u>84</u>	<u>.</u>
DEPARTURE	16+20 WEST	BEARING 537	° Wes	+.	ULI	IMATE D	ерт <u>н 15</u> 5	5 me	fu	<u>S</u>
ELEVATION		DIP-50° at c	ollare.			POSED DI		•		
DEPTH FRET, WUKIS		FORMATION	:	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SCUDGE			
B- 7.9	CASING: OVER b	uzden								
7.9-27.5	BASALT: DIC	green, chloriti	zed u	ealth	, och	stose,	occas	اوس	2	
07.5- 58.8	BASALT: DK	green, zhloitiz	ed, ge	nerall					35	_
58.8-63.5	, 5,	carb shinger with			tosita	niith	live l	rive	a la	- Idase
		sgero Il to schist								
63.5- 141.5	shing	green chroitizen and perenal	ed, We Danded	ale Ac Iron	histosi Forn	ty o	Ecassion sections	al d	175	<u>K</u> ol
	85.7 -	86.1: 5% fig. mag	, 25%	cherty	9/3,	70% c	hlorite.			_
	96.1 -	87.6: 15% f.g. ma. 96.6: 16% f.g ma 98.5: 20% f.g.m	9,90%	Dugan	mata	, 1%	Pyrile			_
	985-	98.8: 40% reregul	ar q la	Vein .	1% P		M.			
N.M.P., TORONTO-STO		- 109.0: 15% t-g. v				3				-

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PROPERTY MCINTYRE BIRCH LIAKE HOLE NO. 84-13 SECTION FROM 63.5 m to 155 miles STARTED SHEET NUMBER WO LATITUDE ____ DATUM_____ COMPLETED ____ ULTIMATE DEPTH 155.0 TARTERS BEARING DEPARTURE ____ PROPOSED DEPTH____ DIP ELEVATION ___ WIDTH OF SAMPLE SLUDGE DEPTH FEET FORMATION GOLD \$ 63.5-141.5 continued 120.6-121.0: 10% fig mag, 20% chlorite, 80% chesty at 127.2-127.5: 15% f.g. mag. 85% sugarry gunts 127.8-128.1: 30% v.f.g. mag 70% cherty q to 130.9-131.1: 20% v. I.a mag 80% charty a 133.6-134.9: 25% V. L.g. mag. 75% cherty al 135.9-136.2: 15% L.a. mag. 85% Avary 137.6-137.9: 20% Lig. mag 80% Down gt 138.3 - 138.6: 20% fg. mag. 80% strang 141.5-147.0 PANDES, 78: GIVEY green, chloritized, generally massing with mottles textures. 147.0-155.0 ANDESITE: GREZZU, < hloritized, moderatel achistosith with him gla/carb stringers 11 to selvis tosity @ 12502 to coke 147.5-148.3: 30% inrugular ata . 11% durite. END OF HOLE @ 155.0 Mutu. T.9 M. SPTH OFTEST 155m 70 m 420 ETCH ANGLS 540 410

W. 1862 S. C.

10 %

•	PROPERTY IY	type Birch LA	KE	нс	LE NO.	34-14	-	(
SHEET NUMBER _	ONE	SECTION FROM	то	75.0	. STA	RTED A	vg \$8/	84	_	
LATITUDE A	2+25 SOUTH	DATUM			_ CON	MPLETED_	Aug 20	184	1	
DEPARTURE _	13+20 WEST	BEARING 5 379	West		_ UL7	IMATE D	EPTH 12	3.07	ret	<u>us.</u>
ELEVATION		DIP50° at c	ollar		_ PRC	POSED DI	EPTH			-
DEPTH FEET THE LAS	ı	FORMATION		SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SCUDGE GOLD \$			
0-4.2	Casing: overb	urden								_
4.2-11.0	AND25172: GR	esu, zhloritizeb	mod	erati	schist	osity	with	fine	Li	_ <u>L</u>
		ingers 11 to schi								_
11.0 - 29.0	BASALT : DA	RLGRESN, Chlor	itized	gens	sally	massi	re with			-
	000 v	48SIONAL 9 13/car	b oti	sger	I bu	F. as -	ollows!	1- U/		 •!. '
	23.0-2	13.3: banded, 10% (·q. mag	, 40%	०९४५ वर्ष	48%	chloru,	26	Cur	<u>'</u> 544
29.0-75.0	BASALT: DAN	ele green, chlori	tizeo,	wgal	ly so	histose	with	pixe	1	<u>.</u> بو
		carb shriges 11							1	_
		Vins with Avesenso rinss of Iron For					o seve	al		
		-46.9: 7cm ats					cu+@	452	Joe	- ORe
	47.3	- 47.6: 7cm qb	vein ,2	% AR	seiro Z:	2% Pyx	ile in a	loile		_
	39 .3	-29.8: banded I.	F. 15%	fig.ma	4.40%	chloit	45%	f.a.	ع رور	– ryat
***	31,4	1-31.7: 25% f.c	q. mag	75%	Dugar	m 9 tz		1		, , ;
	37.7	- 38.1: 30% fig	· Mag.	70%	cherto	1 9 tz				
	43.7	1- 44.0: V.f.q.	chen try	9+3.						
	56.6	0- 58.0: 35% f.	q. mag.	40% 1	gry gt	5 35%	Ihlorite.	1100	-%	Pyk.

DRILLED BY MID WEST DRILLING

N.M.P., TORONTO-STOCK FORM No. 801 REV. 12/51

SIGNED HOLL DENAM

PROPERTY Me Try 182 Birch Lake HOLE NO. 84-14

SHEET NUMBER _	Two	SECTION FROM 29	.0m TO_	123.01	rutui sta	RTED				_
LATITUDE		DATUM			_ COI	MPLETED_				
DEPARTURE		BEARING			ַ ער.	TIMATE D	EPTH 123	»·O TA	eta	<u>ر</u> چ .
ELEVATION		DIP			_ PRO	POSED DI	EPTH			_
DEPTH ERES NETUS	FOI	RMATION		SAMPLE No.	WIDTH OF BAMPLE	GOLD \$	SOLD S			
29.0 - 75.0	continued.	8: breceiated	T.F 20	% v.L.0	. VAC.	20% ch	سائلد راه	K chou	14	- ch
	64.5-66	7: V.L.a. ch	uty at				l		- 1	목 '3
• • • • • • • • • • • • • • • • • • • •	72.3-72	.9: Innegular	opuding,	30%	f.g. m	بع 70%	DUGARL	9+	; -	_
75.0-92.0	BASALT: Dark c	inew, chlorit		n erall	4 MA	ssive	with c	cens	310	_ _ _ _
92.0-101.0	BASALT: Darl qt3/1	careb stringer	nitized,	weal	sch to sc	istosil nistosil	4 . oca 4 @ 35	mes.	0.0°	D re
	BASALT: Davel				i			1 1		_ _ _
	ANDESITE: GIVE								_	
	(IZND)	OF HOLE @	123.0 met	<u> </u>					\dashv	_
TEST DEO-		62m	123m						 	<u>-</u>
STCH ANG LOVERSCTED		50° 42.5°	44° 36.5°							_

	PROPERTY 19 10.	MRS DIRCH	naks_	— нс	LE NO	<u>84-15</u>	<u>></u>			
SHEET NUMBER _	ONE	SECTION FROM	то_1	22.5 M	itas sta	RTED_/	vg 21/8	4		
LATITUDE	1400 South	DATUM			. CON	MPLETED_	Aug 23/	184		
DEPARTURE <u></u>	35+00 W	BEARING 537°	WEST		บบา	IMATE DI	ертн 30	<u>5 m</u>	eters	
ELEVATION		DIP -50° @ CO	MAR		PRC	POSED DE	EPTH			
DEPTH ELETT FUS	FOF	MATION	1	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	COLD S			
0-7.3	CASING: over b	urden								
7.3 - 40.0	ANDESITE: GREY	aves a delivoiti	5,)	Made	ct a	hicks	£1+7. 1.1	+14	(100	, (i.s.
	gtz/ca	Rb otringers 1	1 +0 /	ochist.	sity a	35°4	to core	OCC1	4881	ma
	95/20	veb vein less H	2002	10 cm	wide					
	17.30-17.3	17: white qtz ve	مرح, سن	1-4	so to co	re.				
10 50 0	19100000	4. 111-11				- 1.6.1		4.6.		
40.8 - 54.0	ANDESITE: GIVE	I green chion		Wear	- DCH	~ 40218	<u>4,000</u>	A-3510	<u>~a</u>	
	1.3	Cares Stringer	•							
59.0 - 110.1	BASALT: DARL	gressu, Chlori	Fized	aer	serallo	, m48	sive w	ith		
	occuss	ionsal qts/carel	s sh	isqu	= ep	dote.				
110.1 – 112.6	FELDSDAR Dinits									
		s in five grain		itkix	mas:	we c	<i>L</i> 10°	2 +0C	of _	
	11 76	10CMC /0CM03 18 31	79.							
112.6-122.5	BASALT: Darl	grun, chlori	Hized	, ge	mall	1 mas	sine a	nth		
	occass	inal 9ty/darb	string	ger a	ad ble	book e	pidote.			
	116.2-11	6.7: five live 9/3/	carb s	shing	ns wil	4 5%	pyvile in	. chlo	ite.	,
N.M.P. TOBOUTO - 570	CK FORM NO. SOL BEY 12/51									

DRILLED BY MIDWEST DRILLING

SIGNED DU DEMM.

MCINTYPE BIRCH LAKE HOLE NO. 84-15

SHEET NUMBER TWO SECTION FROM 122.5m to 255.0 meters started							
LATITUDE	DATUM		_ COI	MPLETED_			
DEPARTURE	BEARING		ב טני	IMATE D	EPTH 30	5.0 M	<u>1278</u> RS
ELEVATION	DIP	·	_ PRO	POSED DI	ЕРТН		
DEPTH PERTY NO.	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	BASALT: Dk green, chbritized, wear 9t3/careb stringer.	lely so	histore	with	occoss	اماما	
130.5-146.0	BASALT: DIL queen, chloritized, me gta/carb shingers II to						inc.
	Contains Dulphide min 130.8-131.2: 4% pyrite i	eraliz	ation	as fol	lows'	1	+
	131.2 - 131.7: 10% ikregular 131.7 - 132.0: 5% ikregular	gtz.	shway	15, Z	& Austra		
146.0 - 169.0	BASALT: DK gress, chloritized, we	eale A	chistos	isty, c	CLASSIC	na	
	9t3/carb strisger; and p 156.7-150.8: 10% pyriale in 156.7-156.8: 3000 of 95	· shi	squs.	<u> </u>			-
169.0-249.5	ANDISITE: GREEN, Zhloritized, gen						72
	9 ts/carb vein and bleb 222.5-222.8: 16 cm qtz whit	by ep	idole.				
)49.5-255.0	ANDS172 PORPHYRY: GREY green, Aphanitic ground mass, v	massiv	Ranies	horne	lende pl	non	<u>``</u>
	CK FORM NO. BOI REV. 12/81	SIGN	ED O	ري . ي	SVAn		

DIAMOND DRILL RECORD

PROPERTY McTwyges Birch LAKE HOLE NO. 24-15

SHEET NUMBER _	THREE SECTION FROM 255.0 TO	305.0	_ ST/	ARTED				
LATITUDE	DATUM	DATUM COMPLETED						
DEPARTURE	BEARING	BEARING ULTIMATE DEPTH 305.0 MULS.						
ELEVATION	DIP		_ PRO	OPOSED D	EPTH			
DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SCADE			-
J56.0 - 269.0	PANDESITE: GREEN, Chloritized, gen 93/carb stringer.	sually	mas	sive	with o	reasi	>107	7DL
269.0-279.5	ANDESITE: GIVERN, Chloritized, u fine line qt3/darb st	sale a	chista 11 to	sity,	occus sity@	3100 25°2	ta	_
<u> </u>	FELDSPAR DIORITE PORPHYRY: five in V.f.q. matrix, mass		im q	Rained	folds per	e pl	درو	70 -
<u> 395.4-305.0</u>	BASALT: DANCE GREEN, chloritized	gene	ally	mass	ive			
	END OF HOLE at 305.0	meter						
	ACID DIP TESTS.							_
DEPTH OF TS								_
CORRECTED			•					
	CK FORM No. 501 REV. 12/81							
	en rwinn ne. evi ner. leret		$-\Delta$					

PROPERTY MCILITYRE BIRCH LAKE HOLE NO. 84-16 SECTION FROM 0 TO 166 MULTUS STARTED AUG 24/84 SHEET NUMBER ONE COMPLETED HU925/84 LATITUDE \$2+05 SOUTH BEARING N 37° EAST. DEPARTURE L 16+20 VSest. ULTIMATE DEPTH 106 meters. DIP-50° at collar PROPOSED DEPTH____ ELEVATION _____ SAMPLE No. GOLD \$ CASING: over burden 0-6.7 BASALT: DARK GREEN Chloritized generally massive with 6.7-18.0 OCCASSIONAL Gt3/cares Stringer 18.0-59.0 BASALT: Davele gress chloritized weak achistosity, five line 9 to /careb stringers 11 to ochis tosity at 50 to 60° x tocal occussionar 1 to 2 cm g/3/cares shinger, trace of pyril 59.0-106.0 BASALT: Darle grew, chloritized, generally massure with occassional 95/cares stringer @ 50° & to coke. 162.9-103.0: 3% enhedren pyrile in chlorite. END OF HOLE at 106.0 meters. ARID DIP TESTS. TEST DEPTH 6.7m 53m 106m ETCH ANGLE 47.5° 42.5° 47.50 ORRECTED ANGLE

DRILLED BY MIDWEST DRILLING

N.M.P., TORONTO-STOCK FORM No. SOI REV. 12/81

SIGNED DW. Draw.

MCINTYRE BIRCH LAKE PROPERTY CROSS-SECTIONS

TEOLINO.	
0	DIAMOND DRILL HOLE
O:	OVERBURDEN
O	MINERALIZATION : QTZ/CARB VEIN, PYRITE & ARSENO PYRITE
.098/6.21	OZ. GOLD PER TON / SAMPLE WIDTH IN FEET
\bigcirc \times \times \times	IRON FORMATION (1.0' to 3.0' WIDE)
3	METAVOLANICS - MAFIC & INTERMEDIATE
	ANDESITE PORPHYRY
	FELDSPAR DIORITE PORPHYRY

