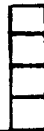


MAP No.

ASSESSMENT REPORT
N. M. E. A. P.
CONFIDENTIAL
OPEN FILE



TYPE OF

WORK: GEOCHEMICAL, PROSPECTING

105 D 3

REPORT FILED UNDER	Carmac Resources Ltd.	DOCUMENT NO.	091681
DATE PERFORMED	Sept. 16 - Oct. 30/85	DATE FILED:	Dec. 6/85
LOCATION - LAT. LONG.	60°10'N	AREA:	
	135°14'W		
CLAIM NO.	MOM 1-10 YA81767-776		
	15-44 YA81781-810		
	47-81 YA81813-847		
	82-89 YA82000-007		
VALUE \$			
WORK DONE BY	G.S. Davidson and R.C.R. Robertson		
WORK DONE FOR	G. Macdonald and Associates Ltd.		

REMARKS

091681

Reconnaissance exploration consisted of geologic mapping, prospecting and soil and silt sampling. Twenty-eight silt and 226 soil samples were collected and analyzed for Au, Ag, Cu and Pb. Results show two moderately strong gold anomalies on the property with up to 680 ppb Au. A coincident Cu, Ag and Pb anomaly is present as are isolated Pb, Ag anomalies.

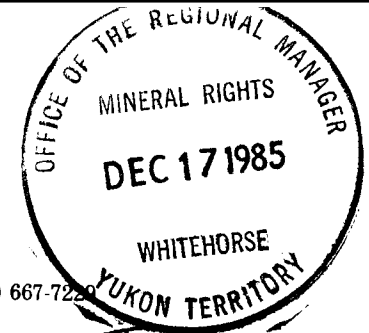
85 Tex p. 95 ✓

G. MACDONALD AND ASSOCIATES LIMITED
Consulting Professional Geologists

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Y1A 4P6

(403) 668-2044

(403) 667-7220



ASSESSMENT REPORT

PROSPECTING AND GEOCHEMICAL SAMPLING

MOM 1-10, 15-44, 47-89 Claims

(YA81767-81776, 81781-81810, 81813-81847, 82000-82007)

Wheaton River

N.T.S. 105-D-3

Latitude: 60°10' North

Longitude: 135°14' West

Whitehorse Mining District

16 September to 30 October 1985

For: **CARMAC RESOURCES LIMITED**

By: **G. S. Davidson, P.Geol.**
and
R. C. R. Robertson

November 1985

091681

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 8300.00.

D. D. Emond

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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INTRODUCTION

This report describes initial exploration of the 83 claim MOM property on Carbon Hill in the Wheaton River district of southern Yukon. A program of prospecting, geological mapping, silt, soil and rock geochemistry was carried out by G. Macdonald and Associates Ltd., consulting geologists, at the request of Carmac Resources Ltd. of Vancouver.

The general location of the Wheaton River district is shown in Figure 1.

PROPERTY

The MOM 1-89 claims form a single contiguous block of 83 claims and were staked on 11 May 1984 and recorded on 22 May 1984 in the office of the Whitehorse District Mining Recorder, in accordance with the Yukon Quartz Mining Act, under the following grant numbers:

<u>Claim Number</u>	<u>Grant Numbers</u>
MOM 1 - 10	YA81767 - YA81776
MOM 15 - 44	YA 81781 - YA81810
MOM 47 - 81	YA 81813 - YA81847
MOM 82 - 89	YA82000 - YA82007

The claims have been transferred from the original staker to McCrory Holdings (Yukon) Ltd. of Whitehorse. In March 1985 the property owners filed six months assessment credit based on prospecting and sampling carried out during 1984 and changed the claim renewal date to 22 November. Current exploration of the property is financed by Carmac Resources Ltd. under the terms of an option agreement with McCrory Holdings.

The location of the MOM claims with respect to local topography and adjacent mineral claims is shown in Figure 2. Note that the boundary of the MOM and POP claims is located farther north than shown on current claim maps.

LOCATION AND ACCESS

The MOM claims are located about 60 km south of Whitehorse on NTS map sheet 105-D-3. Approximate geographical co-ordinates are 60°10' north and 135°14' west.

Access to the property from Whitehorse is by paved highway following the Alaska Highway and then the Klondike Highway (Carcross section) as far south as Robinson, a distance of 40 km. From Robinson, an all-weather gravel road (Annie Lake-Wheaton River road) is followed for 32 km to the bridge over Becker Creek, a tributary of the Wheaton River. A rough four-wheel-drive trail is then followed for 12 km up Becker Creek, thence west uphill past the old Becker-Cochran adit and across the top of Carbon Hill to the old Porter adit near the west end of the boundary between the MOM and POP claims.

During the summer of 1985, major improvements to the Annie Lake Road were carried out by the Yukon Government Highways Department and Mount Skukum Gold Mines Ltd. (a subsidiary of Erickson Gold Mines Ltd.) as part of the development program at the

BEAUFORT SEA

FIGURE 1

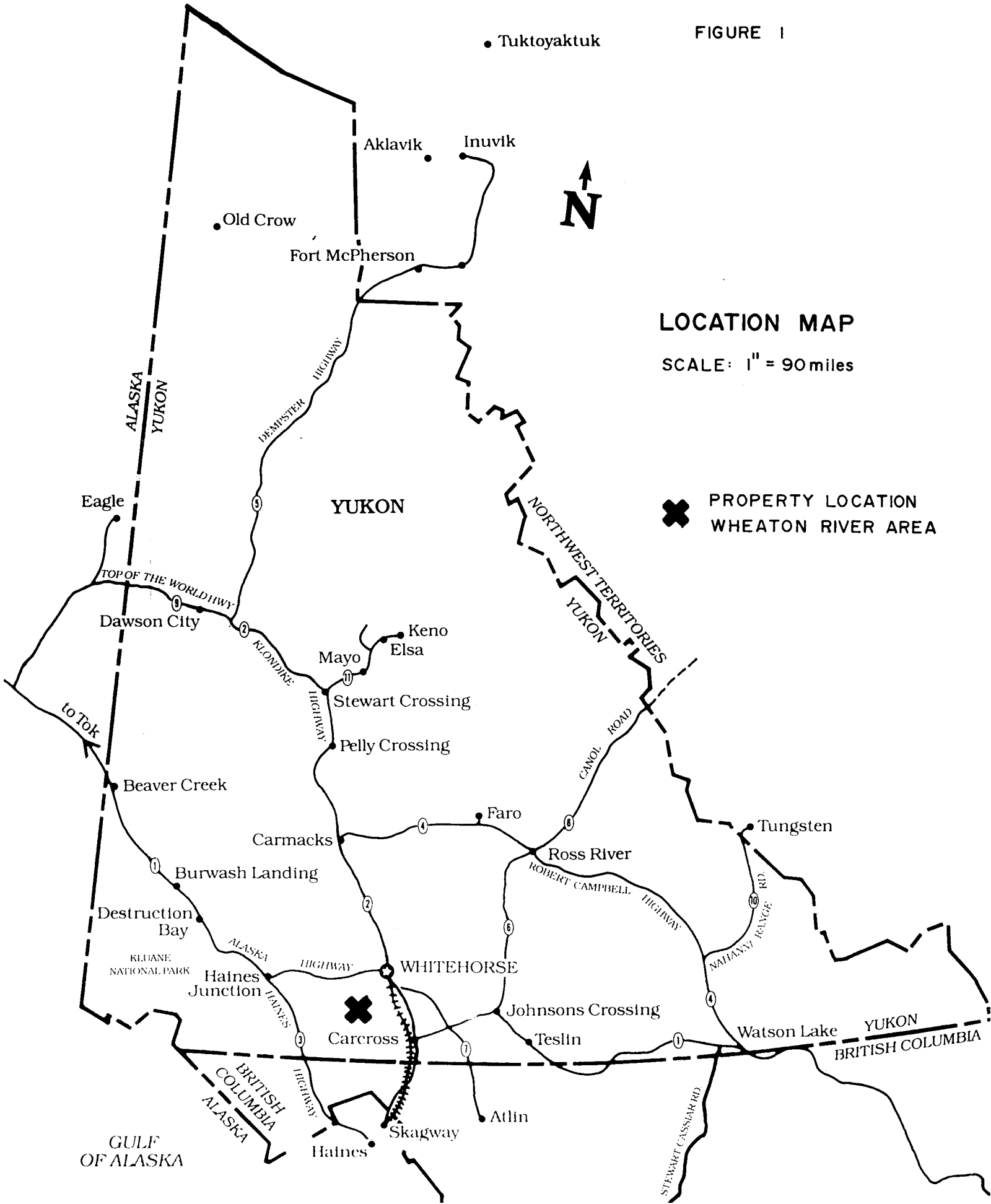
• Tuktoyaktuk

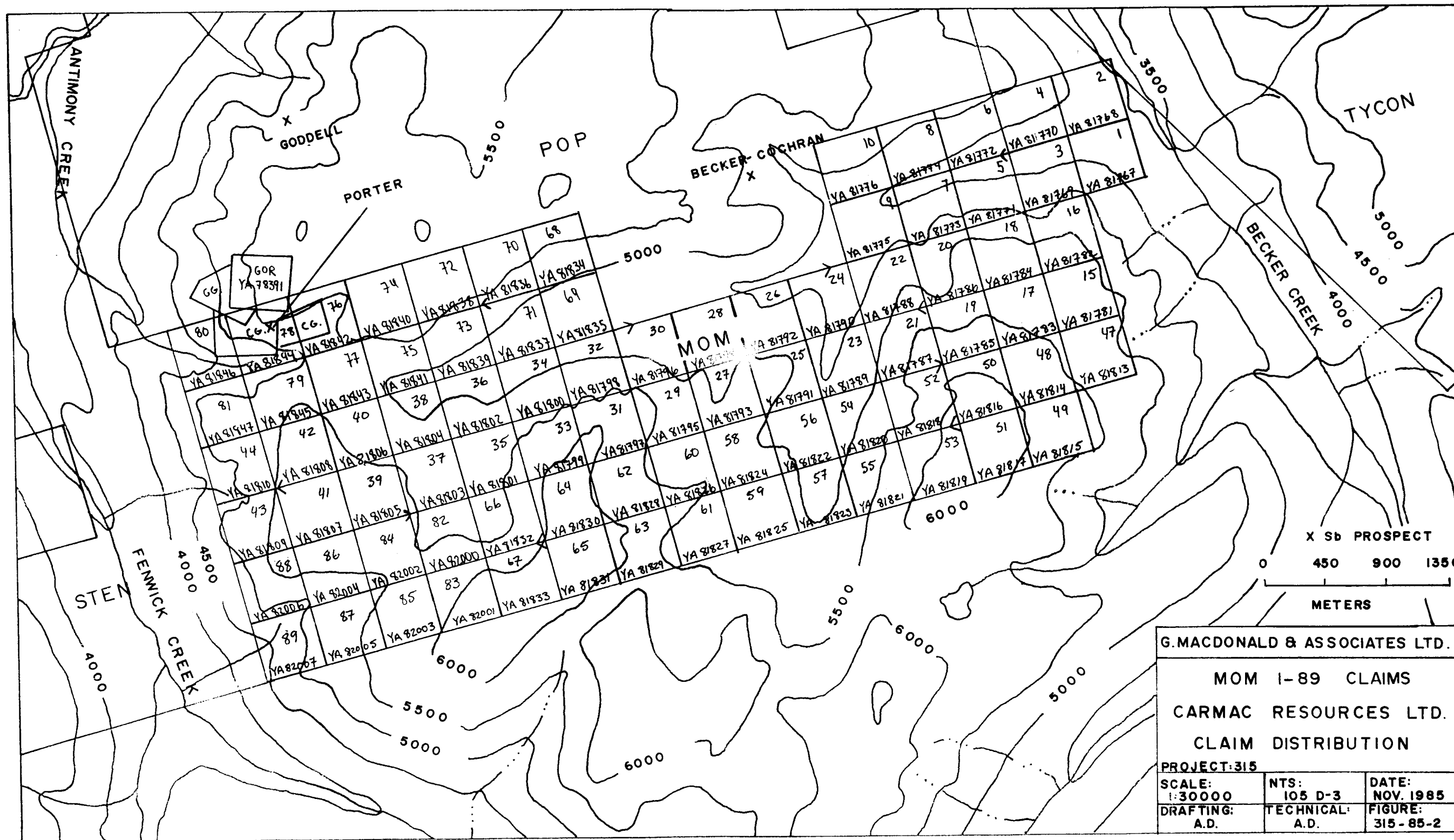


LOCATION MAP

SCALE: 1" = 90 miles

✖ PROPERTY LOCATION
WHEATON RIVER AREA





G. MACDONALD & ASSOCIATES LTD.

MOM 1-89 CLAIMS
 CARMAC RESOURCES LTD.
 CLAIM DISTRIBUTION

PROJECT: 315

SCALE: 1:30000	NTS: 105 D-3	DATE: NOV. 1985
DRAFTING: A.D.	TECHNICAL: A.D.	FIGURE: 315-85-2

Mount Skukum Gold Mine owned by Agip Canada Ltd. and Erickson Gold Mines Ltd. Production from this deposit is scheduled for February 1986.

Exploration of the MOM claims in 1985 was carried out from a tent and trailer camp located on the Wheaton River road. Access to the property was both by vehicle and by helicopter, using a Bell 206B Jetranger from Frontier Helicopters, based on the Wheaton River road at Becker Creek.

PHYSIOGRAPHY, CLIMATE, VEGETATION

The MOM claims form a rectangular area covering a series of ridges and cirques forming the drainage basin of a major tributary to Becker Creek, including both Mount Bell and Carbon Hill (of current 1:50,000 series topographic maps). As originally used (e.g. Cairnes' 1912 map), Carbon Hill referred to the area covered by the present POP claims to the north.

Relief on the property is in the order of 600-700 meters (2000-2300 feet) rising from 1220 meters (4000 feet) in valley bottoms to a maximum elevation of 1958 meters (6425 feet) at Mount Bell in the eastern part of the claims. Slopes are steep and often rugged, particularly on the extreme west end of the property overlooking Fenwick Creek and the Wheaton River, becoming gentle in the dissected plateau area at higher elevations.

Most of the property is above treeline (1200 meters/4000 feet) with only local stands of stunted conifers above this elevation. Ground cover is mostly talus, overgrown with brush and moss at lower elevations, with more extensive rock exposure on the steeper slopes at higher elevations.

Climatic conditions are generally those of similar elevations in the Carcross area, characterized by a northern interior climate modified by a warmer, moist influence of the nearby Pacific Ocean. Average annual precipitation is approximately 40 cm. Winters in the area are long, with temperature extremes to -40°C but commonly in the -10° to -20°C range. Summers are pleasant, with temperatures up to 25°C and long hours of daylight during May, June and July. The area is generally snowfree from June to September.

REGIONAL GEOLOGY

The Wheaton River district straddles the boundary between folded Mesozoic and Paleozoic volcanic and sedimentary rocks of the Whitehorse Trough and the granitic intrusive rocks of the Cretaceous Coast Crystalline Complex to the west. All of these units are locally overlain by volcanic rocks of the late Cretaceous/early Tertiary Skukum Group and intruded by rhyolite and andesite dykes of the same age.

The region has been mapped twice by the Geological Survey of Canada and the results published as Memoir 31 (D. D. Cairnes, 1912) and Memoir 312 (J. O. Wheeler, 1961). A re-interpretation of the regional geology formed part of the metallogenic map published as Open File EGS 1979-6 of the Department of Indian Affairs and Northern Development (G. W. Morrison).

A table of formations follows:

Table 1
Table of Formations

QUATERNARY		Alluvium; glacial and fluvial deposits
QUATERNARY(?)	Miles Canyon volcanics	Basalt; minor pyroclastic rocks
TERTIARY	Skukum Group	Basalt, andesite, rhyolite flows, tuffs and breccias, dykes and sills
MID-CRETACEOUS	Coast Range intrusions	Medium-grained quartz-monzonite; granodiorite
JURASSIC/ CRETACEOUS	Hutshi Group (?)	Andesite, rhyolite flows and pyroclastic equivalents
JURASSIC	Tantalus Group	Mainly conglomerate
LOWER JURASSIC	Laberge Group	Greywacke, arkose, quartzite, siltstone, argillite and conglomerate
TRIASSIC	Lewes River Group	Andesite, basalt flows and pyroclastic equivalents; limestone; minor rhyolite flows
MISSISSIPPIAN- PERMIAN	Cache Creek <u>or</u> Taku Group	Serpentinized ultramafic rocks
LOWER PALEOZOIC	"Yukon Group"	Metamorphic terrain; quartz-biotite schist; micaceous quartzite; minor gneissic units

Older sedimentary and volcanic rocks are typically deformed and exhibit at least lower-greenschist facies regional metamorphism. These units generally trend north or northwest and appear to be separated by unconformities. Much of the deformation seen in these rocks relates to regional tectonic events associated with intrusion of large bodies of quartz monzonite and granodiorite of the Coast Range Complex about 100 m.y.

Major fault structures are associated with early Tertiary volcanic complexes at Montana Mountain, Mount Macauley and Mount Skukum, but older structures may also be present. Skukum Group volcanic rocks are equivalent to the Sloko Group of northern British Columbia and the Mount Nansen Group of central Yukon. Late stage features of Skukum Group volcanism include andesite, dacite and rhyolite dykes, small rhyolite porphyry stocks and quartz or quartz-carbonate veining with important precious metal mineralization.

HISTORY

The earliest exploration work in the Wheaton River area pre-dates the Klondike Gold Rush by several years. The first recorded claims staked in the region were located by Frank Corwin and Thomas Rickman on Carbon Hill, Chieftain Hill and Mt. Anderson(?) during the summer of 1893. Additional prospecting in the Wheaton River District continued intermittently until 1906 when the discovery of gold and gold telluride bearing quartz veins on Gold Hill led to a staking rush which resulted in over 700 claims being located near the discovery and on Carbon Hill where Corwin and Rickman's original claims had been found.

Many of the claims were further developed until the outbreak of WWI - with adit entry underground drifts driven on shear zones or veins on Gold Hill, Tally Ho Mountain, Mt. Stevens and Carbon Hill. After the termination of the war, additional exploration was conducted on several of the more promising occurrences and limited production arose from high grade zones at Tally Ho Mountain, Gold Hill and Mt. Stevens.

Most of the Wheaton River District then lay idle from the mid-1920's until the late 1940's as most exploration efforts during this period were directed to silver-lead veins in the Keno Hill area of central Yukon. From the 1940's until the early 1980's, the Wheaton River district witnessed only sporadic exploration activity as specific commodities were sought. During the 1970's, exploration reconnaissance programs were conducted in the region for porphyry copper deposits. With the increasing price for gold during the late 1970's, interest again revived for precious metal exploration in southern Yukon.

A regional exploration program conducted by Agip Canada Ltd. in 1980 led to discovery of gold-bearing vein structures at Mount Skukum in 1981. Subsequent diamond drill programs in 1982-1984 defined a commercial ore body consisting of 165,000 tons grading 0.73 oz gold and 0.63 oz silver per ton as finely disseminated gold hosted by quartz-calcite veining. Development work by Mount Skukum Gold Mines Ltd. (a subsidiary of Erickson Gold Mines Ltd. of Vancouver) proceeded during 1984-1985 under a joint venture agreement with Agip; production is scheduled to commence early in 1986.

The significance of this discovery was realized in 1983 and exploration activity in the Wheaton River district showed a dramatic increase during 1983-1985. All of the ground surrounding the MOM claims was staked during this period; exploration was carried out on all of these properties during 1985.

The Carbon Hill area has been intensively explored in the past. Virtually all of this activity focused on development of three areas of stibnite vein mineralization: the Goddell, Porter and Becker-Cochran showings (Figure 2). All these areas were originally found and staked by 1907.

The Goddell area on the northwest side of Carbon Hill was explored by trenching and a short adit in the early years and was again briefly explored by several companies between 1958 and 1977. It appears to be the least promising of the antimony prospects.

The Porter area on the west side of Carbon Hill, close to the boundary between the MOM and POP claims, was explored by 1100 feet of underground development by 1915. Subsequent exploration has been much less persistent, although 10 diamond drill holes were completed as recently as 1977. Mineralization is apparently sporadic and often restricted to narrow veinlets. Antimony and silver are both present, with the best reported gold assay being 0.25 ounces per ton over a 20 cm width.

Early work at the Becker-Cochran prospect on the east side of Carbon Hill was limited to trenching and a short adit. A major exploration program was carried out here by Yukon Antimony Corporation between 1964 and 1966, including 1400 feet of underground development in three adits. Possible reserves were quoted as 140,000 tons grading 4% Sb in 1974.

GEOLOGY AND EXPLORATION - 1985

Introduction

Reconnaissance exploration of the MOM property was carried out by a three-man exploration crew consisting of G. Davidson (geologist) and J. Atkinson and M. Van Veen (field assistants), all of Whitehorse, Yukon, supervised by R. Robertson of G. Macdonald and Associates Ltd. This crew was based at a tent and trailer camp located on the Wheaton River road, and supplied from Whitehorse. A four-wheel-drive vehicle was used for access to the property; a Frontier Helicopters' Jetranger based nearby facilitated work in less accessible parts of the claim block. Initial examination of the property in August 1985 was carried out by F. Hewett (Carmac Resources Ltd.), W. Preston (McCrorry Holdings Ltd.) and R. Robertson.

The program carried out in September and October 1985 consisted of prospecting, geological mapping, silt, soil and rock geochemistry.

Geology

The Carbon Hill area is underlain by mid-Cretaceous granitic rocks of the Coast Plutonic Complex; these are typically fresh, medium-grained equigranular hornblende biotite granodiorites and quartz monzonites. In some parts of the MOM claims, especially in upper Antimony Creek in the northwest corner of the claim block, these granitic rocks are thoroughly fractured and strongly altered, with abundant clays, chlorite and iron carbonates.

Extensive areas of older rocks occur within the Carbon Hill intrusion, apparently as pendants or screens, suggesting the intrusion is only partially unroofed. The oldest rocks are metamorphic quartzites, schists and gneiss of the Lower Paleozoic(?) Yukon Group. Pyroxenites and serpentinites occur within Yukon Group metamorphic rocks in a cirque in the western half of the MOM property. These ultramafic rocks contain up to 10% iron sulphides and weather a deep red colour. The pyroxenites are altered to serpentinite near contacts. Similar rocks of the Mississippian or Permian Cache Creek or Taku Groups occur at Montana Mountain and in the Atlin Terrane to the south.

Also present are large areas of deformed and metamorphosed andesitic volcanic rocks ("greenstones") of the Upper Triassic Lewes River Group. Patches of Tantalus formation (Upper Jurassic-Lower Cretaceous) chert pebble conglomerate cap several areas of Carbon Hill, including the summit area of Mount Bell within the MOM claims, and smaller patches around the Becker-Cochran adits.

Andesite and rhyolite dykes of the early Tertiary Skukum Group occur throughout Carbon Hill, cutting all other rock units. A small stock of rhyolite porphyry outcrops on the east side of Carbon Hill, immediately north of the MOM claims and adjacent to the stibnite mineralization of the Becker-Cochran prospect.

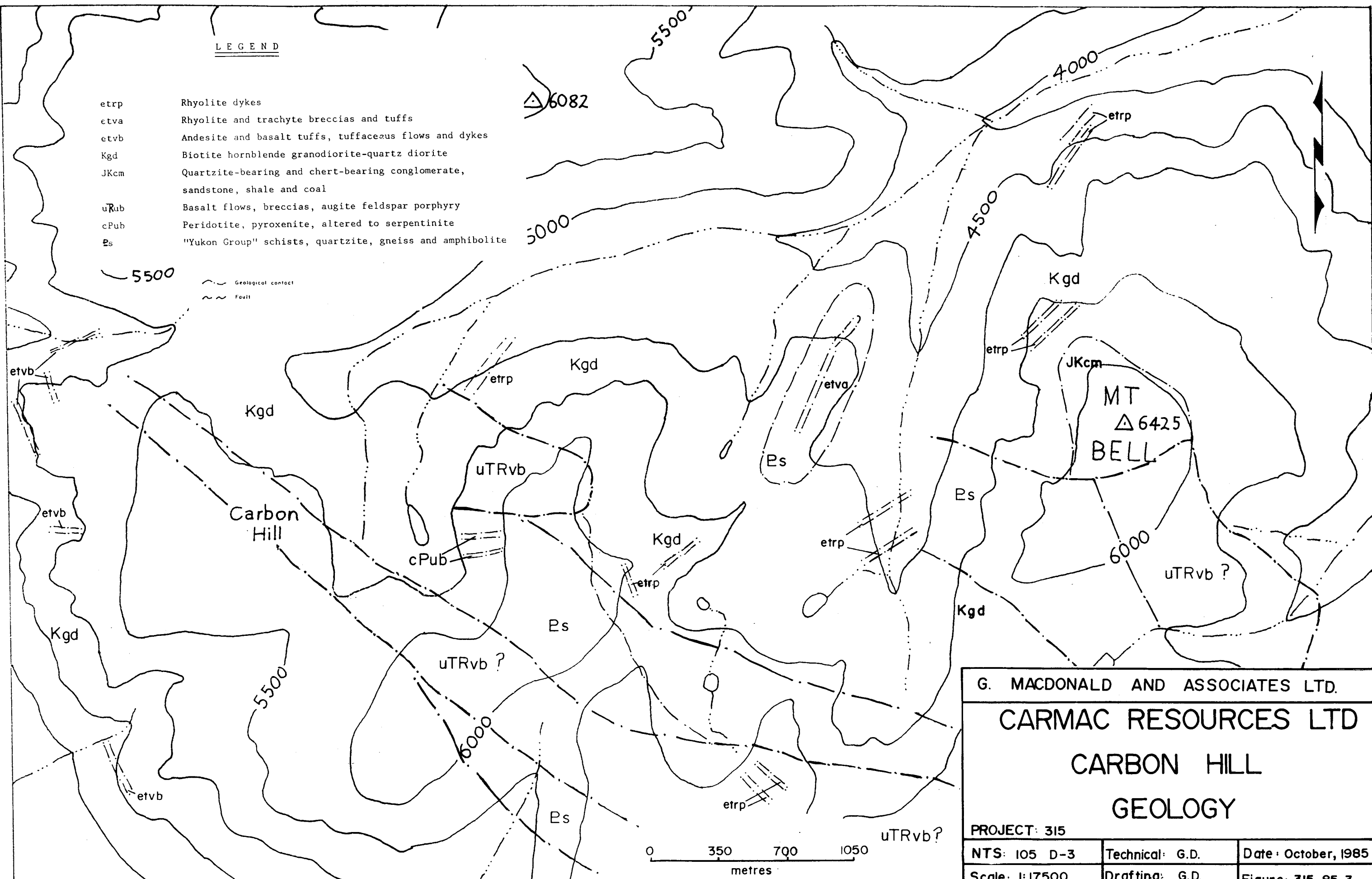
A number of attractive clay and iron stained gossan and alteration zones are present on the property, particularly on the west and northwest. These appear to be developed in fractured and altered areas of the granitic intrusion in proximity to Skukum Group dykes.

Property geology is shown in Figure 3.

LEGEND

- etrp Rhyolite dykes
- etva Rhyolite and trachyte breccias and tuffs
- etvb Andesite and basalt tuffs, tuffaceous flows and dykes
- Kgd Biotite hornblende granodiorite-quartz diorite
- JKcm Quartzite-bearing and chert-bearing conglomerate, sandstone, shale and coal
- uRub Basalt flows, breccias, augite feldspar porphyry
- cPub Peridotite, pyroxenite, altered to serpentinite
- Es "Yukon Group" schists, quartzite, gneiss and amphibolite

— Geological contact
 ~~~~~ Fault



|                                  |                 |                     |
|----------------------------------|-----------------|---------------------|
| G. MACDONALD AND ASSOCIATES LTD. |                 |                     |
| <b>CARMAC RESOURCES LTD</b>      |                 |                     |
| <b>CARBON HILL</b>               |                 |                     |
| <b>GEOLOGY</b>                   |                 |                     |
| PROJECT: 315                     |                 |                     |
| NTS: 105 D-3                     | Technical: G.D. | Date: October, 1985 |
| Scale: 1:17,500                  | Drafting: G.D.  | Figure: 315-85-3    |

## Geochemistry

Silt sampling was conducted on the more accessible creeks at 200 to 500 meter intervals. A total of 28 samples were analyzed by Bondar-Clegg and Co. Ltd. of Vancouver for gold, silver, arsenic, copper and lead. Copper, lead and silver were analyzed by standard atomic absorption methods. Gold analyses used a 10 g split with fire assay preconcentration (preparation of the dore bead) followed by digestion of the bead in acid and analysis by atomic absorption spectrophotometry. Arsenic analyses are by perchloric-nitric acid digestion and colorimetric determination. All analyses are on the minus 80 mesh fraction.

Sample locations and analytical results are shown in Figure 4.

Gold and silver results are typical of mountain drainage systems. The combination of rapid seasonal runoff and "pool and riffle" effects of the stream bed produces poor samples with small quantities of fine material and very variable gold-silver contents. The large number of low gold values with occasional significant values is as much a reflection of local conditions as of mineralization. Anomalous values occur in part of the stream system draining the gossan area where soil sample lines E and F are located.

Anomalous arsenic and lead values at the northeast side of the property reflect mineralization and contamination from the Becker-Cochran prospect.

A total of 226 soil samples were collected on contour traverse lines across geological targets. Locations are shown in Figure 5. Most samples represent the fine fraction of talus material rather than true soil material; some of the stonier samples had to be treated as rock chips in the laboratory. All samples were analyzed for gold, silver, copper and lead by Bondar-Clegg by the methods described above. In most samples, the minus 80 mesh fraction was analyzed; "rock chip" samples were pulverized but not screened.

Analytical results are shown in Figures 6 and 7.

Results show two strong gold anomalies and numerous silver-copper-lead anomalies, especially on the northwesterly slopes of the property. On contour line B, gold values of 35 ppb, 320 ppb and 680 ppb gold occur at consecutive sample sites over 100 meters, and on line A a value of 340 ppb gold was recorded at one site. Gold values of these magnitudes are highly anomalous in the Wheaton River district and warrant detailed follow-up.

Contour lines G and H located on the slope above upper Antimony Creek returned anomalous silver, lead and copper values over several hundred meters. Peak values of 7.5 ppm silver, 420 ppm lead and 3600 ppm copper indicate nearby mineralization. On lines E and F, a silver-lead anomaly occurs at a gossan zone located in a small gully. Strong silver-lead anomalies were also recorded from individual sites on lines B and D.

Thirty-three rock samples were collected during prospecting. Locations and analytical results are shown in Figure 8. Most sample sites are close to areas of contour soil sampling. Analyses for gold and silver were prepared by Bondar-Clegg using the techniques described above. Most results are low; a few samples with moderately anomalous results are located in the west and northwest areas of the property and in a large cirque to the southeast.

Sample descriptions appear in Table 2.

**Table 2**  
Rock Sample Descriptions

| <u>Sample Number</u> | <u>Description</u>                                                                                                                                                     |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20001                | Medium-grained granitic dyke. Rusty yellow weathering. Contains trace disseminated sulphides.                                                                          |
| 20002                | Fine-grained silicified Tertiary dyke, minor sulphides, rusty yellow weathering.                                                                                       |
| 20003                | Cherty quartz with trace pyrite from andesitic volcanic rocks.                                                                                                         |
| 20004                | Glassy, fine- to medium-grained sugary quartz in silicified chloritic andesite.                                                                                        |
| 20005                | Andesite containing fine veinlets with pyrite (and arsenopyrite?)                                                                                                      |
| 20006                | Rhyolite to quartz feldspar porphyry with thin quartz carbonate bands, small vugs and minor pyrite and hematite(?)                                                     |
| 20007                | Fine-grained sugary textured quartz feldspar rock with several percent pyrite (fine disseminations to coarser patches over 1 cm wide), epidote and abundant magnetite. |
| 20008                | Granitic rock with large K feldspar phenocrysts, up to 1% disseminated magnetite and pyrite.                                                                           |
| 20009                | Medium- to fine-grained granitic rock containing up to 2% pyrite.                                                                                                      |
| 20010                | Rhyolite with minor sericite and pyrite.                                                                                                                               |
| 20011                | Narrow quartz veins in andesite porphyry.                                                                                                                              |
| 20012                | White to glassy green quartz vein (20 cm wide) carrying minor pyrite. Host rhyolite forms prominent orange gossan. Veining occurs close to gneissic rocks.             |
| 20013                | Fine-grained quartz feldspar gneiss with minor chlorite and pyrite.                                                                                                    |
| 20014                | Fine-grained orange weathering grey-white rhyolite with trace pyrite. Host rock to 20012.                                                                              |
| 20015                | Quartz veins with trace pyrite; occasional open vugs with small quartz prisms and minor clay. Rhyolite country rock.                                                   |
| 20016                | Quartz feldspar vein in diorite; trace pyrite.                                                                                                                         |
| 20017                | Fractured quartz-calcite veining with brown manganese stain and occasional rusty vugs; in Tertiary felsic dyke.                                                        |
| 20018                | Pale aplitic dyke with trace pyrite.                                                                                                                                   |
| 20019                | Yellow weathering Tertiary rhyolite porphyry dyke with minor carbonate, sericite, pyrite.                                                                              |
| 20020                | Aphanitic grey rhyolite with abundant disseminated calcite, trace hematite and epidote (after plagioclase). Float sample.                                              |
| 20021                | Altered "pyroxenite"; mostly tremolite and quartz with several percent pyrite and occasional carbonate veinlets.                                                       |
| 20022                | Amphibolite and serpentinite after pyroxenite with locally abundant pyrite in veinlets and disseminations.                                                             |

Table 2 - Continued

| <u>Sample Number</u> | <u>Description</u>                                                                                                                                                                                                    |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20023                | Amphibolite after pyroxenite; similar to 20022. Minor disseminated pyrite and thin calcite veinlets. <u>Not analyzed.</u>                                                                                             |
| 20024                | Fine-grained sugary textured "granitic" rock, similar to 20007. Mostly quartz, pyrite, chlorite, epidote with trace magnetite. Pyrite as coarse patches or fine disseminations (15-20%). Close to pyroxenite contact. |
| 20025                | No sample.                                                                                                                                                                                                            |
| 20026                | Quartz-calcite vein float.                                                                                                                                                                                            |
| 20027                | Altered vuggy granitic rock, possibly Tertiary, similar to 20001. Seems sheared; minor quartz veinlets and pyrite.                                                                                                    |
| 20028                | Brecciated quartz vein from gouge zone.                                                                                                                                                                               |
| 20029                | Footwall of 20028. Granodiorite with minor pyrite.                                                                                                                                                                    |
| 20030                | Quartz vein zone in altered granodiorite. Close to contact with volcanics. Sample from subcrop; trace pyrite and galena.                                                                                              |
| 20031                | Quartz-calcite veining with altered (calcite-sericite) granitic country rock close to Tertiary rhyolite dyke. Trace pyrite.                                                                                           |
| 20032                | Pale yellow weathering Tertiary rhyolite dyke.                                                                                                                                                                        |
| 20033                | Tertiary felsic pyroclastic rock (lithic tuff).                                                                                                                                                                       |
| 20034                | Fine-grained grey Tertiary rhyolite dyke; thin quartz veinlets. <u>Not analyzed.</u>                                                                                                                                  |
| 20035                | Siliceous volcanic rock with trace pyrite.                                                                                                                                                                            |
| 20036                | Mottled grey fine-grained quartz-rich rock close to Tertiary rhyolite dyke. Probably recrystallized quartzite.                                                                                                        |

### CONCLUSIONS AND RECOMMENDATIONS

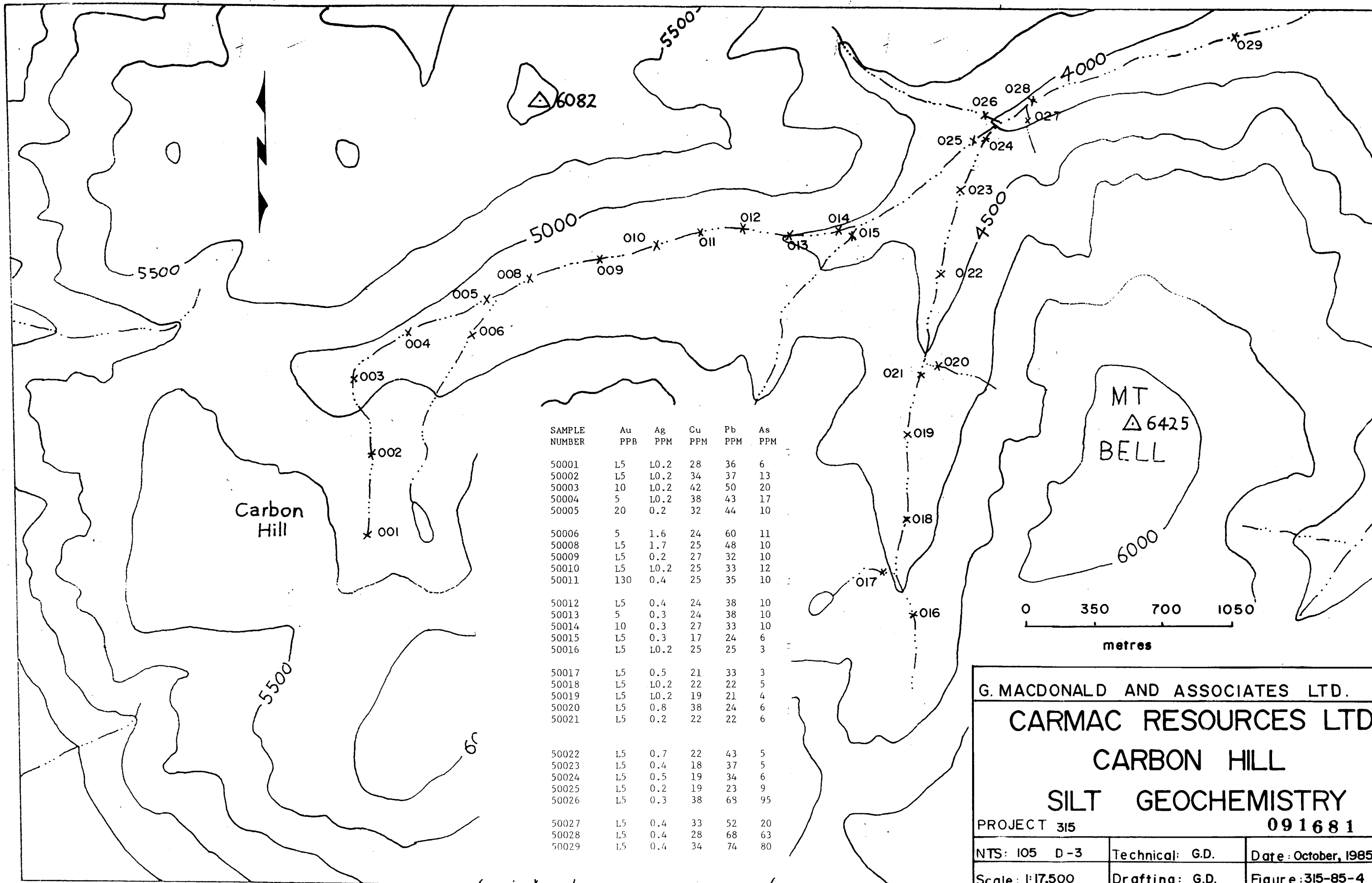
So far, only preliminary reconnaissance exploration has been carried out on the MOM property.

Results of prospecting and geological mapping conducted in 1985 and comparisons with other properties in the Wheaton River district suggest that the MOM claims have significant precious metal potential. Geologically, the property is very similar to the south Chieftain Hill-Mount Reid area currently being trenched and drilled by Omni Resources. Only part of Omni's 1985 results have been released to date, but an important feature of their results is the number of potentially important mineralized structures uncovered by bulldozer trenching which had only modest geological or geochemical expressions at surface. It is recommended that careful attention be paid to alteration and gossan zones in future explorations of the MOM claims, particularly on the west side of the property. Omni Resources and a sister company, Berglynn Resources, have tied up all of the surrounding ground here.

Geochemical sampling (particularly soil analyses) indicate a number of areas which warrant early follow-up, using more detailed sampling.

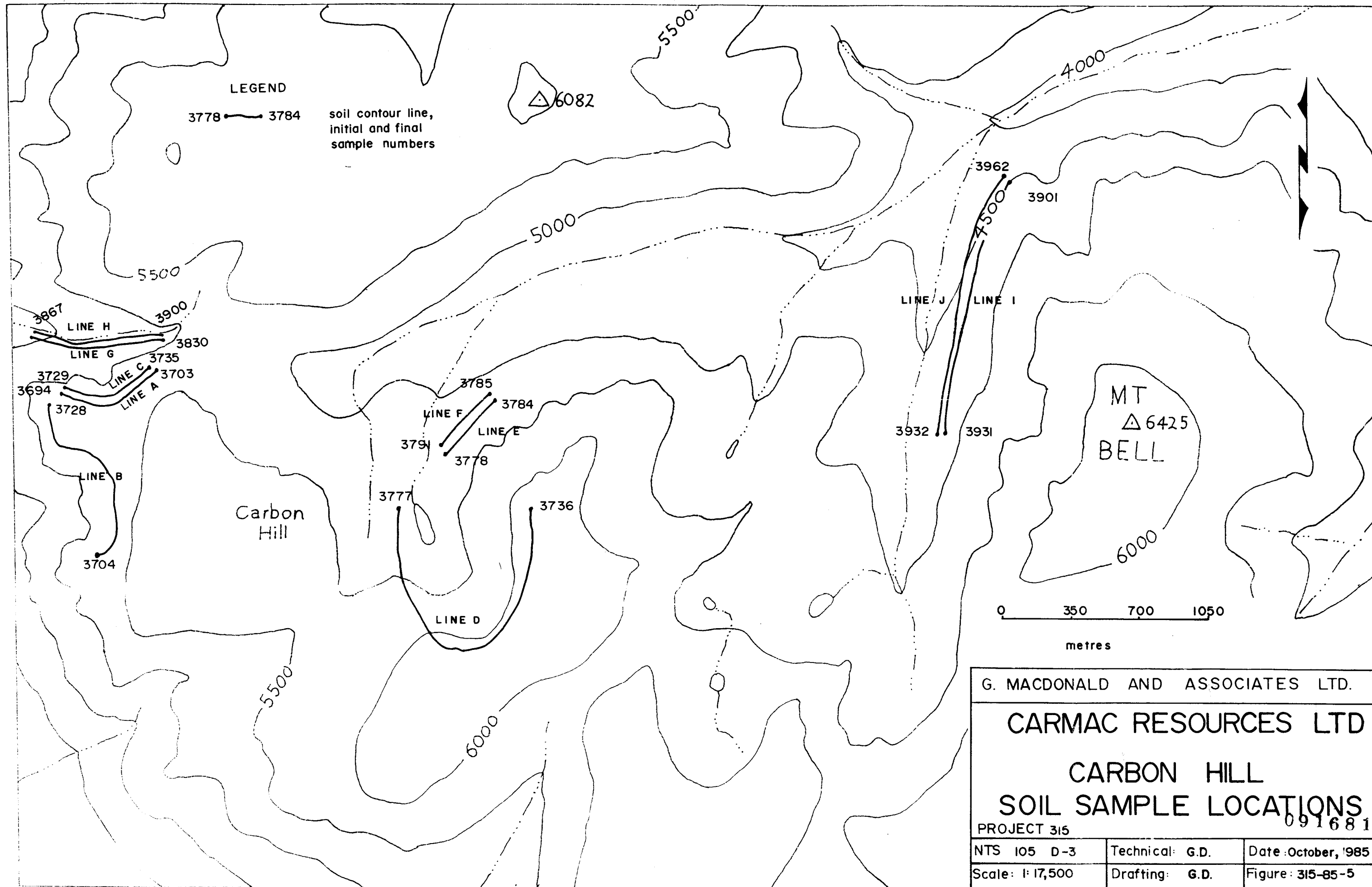
We recommend that bulldozer and/or hand trenching be used at a relatively early stage to evaluate as many targets as possible, including geological targets with little or no surface geochemical response.

It is also suggested that a wider range of elements be analyzed in future programs than was possible in 1985, particularly pathfinder elements for epithermal precious metal mineralization.



| SAMPLE NUMBER | Au PPB | Ag PPM | Cu PPM | Pb PPM | As PPM |
|---------------|--------|--------|--------|--------|--------|
| 50001         | 1.5    | 10.2   | 28     | 36     | 6      |
| 50002         | 1.5    | 10.2   | 34     | 37     | 13     |
| 50003         | 10     | 10.2   | 42     | 50     | 20     |
| 50004         | 5      | 10.2   | 38     | 43     | 17     |
| 50005         | 20     | 0.2    | 32     | 44     | 10     |
| 50006         | 5      | 1.6    | 24     | 60     | 11     |
| 50008         | 1.5    | 1.7    | 25     | 48     | 10     |
| 50009         | 1.5    | 0.2    | 27     | 32     | 10     |
| 50010         | 1.5    | 10.2   | 25     | 33     | 12     |
| 50011         | 130    | 0.4    | 25     | 35     | 10     |
| 50012         | 1.5    | 0.4    | 24     | 38     | 10     |
| 50013         | 5      | 0.3    | 24     | 38     | 10     |
| 50014         | 10     | 0.3    | 27     | 33     | 10     |
| 50015         | 1.5    | 0.3    | 17     | 24     | 6      |
| 50016         | 1.5    | 10.2   | 25     | 25     | 3      |
| 50017         | 1.5    | 0.5    | 21     | 33     | 3      |
| 50018         | 1.5    | 10.2   | 22     | 22     | 5      |
| 50019         | 1.5    | 10.2   | 19     | 21     | 4      |
| 50020         | 1.5    | 0.8    | 38     | 24     | 6      |
| 50021         | 1.5    | 0.2    | 22     | 22     | 6      |
| 50022         | 1.5    | 0.7    | 22     | 43     | 5      |
| 50023         | 1.5    | 0.4    | 18     | 37     | 5      |
| 50024         | 1.5    | 0.5    | 19     | 34     | 6      |
| 50025         | 1.5    | 0.2    | 19     | 23     | 9      |
| 50026         | 1.5    | 0.3    | 38     | 69     | 95     |
| 50027         | 1.5    | 0.4    | 33     | 52     | 20     |
| 50028         | 1.5    | 0.4    | 28     | 68     | 63     |
| 50029         | 1.5    | 0.4    | 34     | 74     | 80     |

|                                  |                 |                     |
|----------------------------------|-----------------|---------------------|
| G. MACDONALD AND ASSOCIATES LTD. |                 |                     |
| CARMAC RESOURCES LTD             |                 |                     |
| CARBON HILL                      |                 |                     |
| SILT GEOCHEMISTRY                |                 |                     |
| PROJECT 315                      |                 | 091681              |
| NTS: 105 D-3                     | Technical: G.D. | Date: October, 1985 |
| Scale: 1:17,500                  | Drafting: G.D.  | Figure: 315-85-4    |



|                                                       |                 |                     |
|-------------------------------------------------------|-----------------|---------------------|
| G. MACDONALD AND ASSOCIATES LTD.                      |                 |                     |
| CARMAC RESOURCES LTD                                  |                 |                     |
| CARBON HILL                                           |                 |                     |
| SOIL SAMPLE LOCATIONS                                 |                 |                     |
| PROJECT 315 <span style="float: right;">091681</span> |                 |                     |
| NTS 105 D-3                                           | Technical: G.D. | Date: October, 1985 |
| Scale: 1:17,500                                       | Drafting: G.D.  | Figure: 315-85-5    |

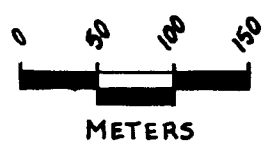
SAMPLE #

3830

LINE G

3866

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| <5  | 10  | <5  | <5  | <5  | <5  | 5   | <5  | <5  | <5  | 10  | <5  | <5  | <5  | <5  | 5   | <5  | 10  | <5  | <5  | <5  | <5  | <5  | 10  | 10  | <5  | <5  | 10  | <5  | <5   | 5   | <5  | <5  | <5  | 15  | <5  |     |
| 0.7 | 0.9 | 0.4 | 1.1 | 0.8 | 0.5 | 0.5 | 0.8 | 0.7 | 4.2 | 0.6 | 0.4 | 0.6 | 0.6 | 1.1 | 0.4 | 1.1 | 1.4 | 1.3 | 0.8 | 1.0 | 0.8 | 1.1 | 4.5 | 3.6 | 2.0 | 0.6 | 0.6 | 2.8 | 7.5  | 2.6 | 1.1 | 0.3 | 0.2 | 1.7 | 2.0 | 1.6 |
| 44  | 60  | 43  | 57  | 51  | 38  | 35  | 43  | 65  | 94  | 82  | 28  | 29  | 41  | 33  | 35  | 63  | 41  | 10  | 67  | 74  | 50  | 107 | 375 | 273 | 133 | 69  | 41  | 384 | 3600 | 460 | 64  | 27  | 41  | 83  | 85  | 89  |
| 37  | 51  | 30  | 75  | 61  | 39  | 24  | 95  | 43  | 66  | 48  | 25  | 69  | 96  | 85  | 62  | 129 | 122 | 106 | 125 | 204 | 117 | 121 | 400 | 271 | 144 | 99  | 51  | 296 | 420  | 216 | 101 | 20  | 23  | 162 | 133 | 99  |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5  | 10  | 5   | <5  | <5  | <5  | <5  | 10  | 10  | <5  | <5  | 10  | <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5  | 10  | 5   | 5   | 20  | <5  | <5  | <5 | <5 |
| 0.3 | 0.4 | 0.7 | 0.6 | 0.6 | 0.2 | 0.6 | 0.8 | 0.2 | 0.6 | 0.8 | 1.0 | 0.2 | 1.0 | 0.2 | 0.3 | 0.6 | 0.5 | 4.3 | 1.0 | 0.4 | 4.7 | 1.0 | 1.4 | 1.5 | 0.2 | 0.2 | 1.6 | 2.2 | 5.5 | 1.4 | 1.7 | 0.4 | 1.6 |    |    |
| 18  | 27  | 32  | 40  | 33  | 18  | 44  | 36  | 16  | 27  | 42  | 45  | 17  | 38  | 15  | 9   | 41  | 20  | 119 | 56  | 41  | 254 | 89  | 212 | 181 | 109 | 30  | 371 | 115 | 175 | 89  | 82  | 41  | 75  |    |    |
| 23  | 29  | 47  | 42  | 39  | 19  | 47  | 40  | 18  | 34  | 34  | 63  | 21  | 58  | 23  | 25  | 93  | 34  | 190 | 74  | 27  | 178 | 62  | 94  | 81  | 30  | 25  | 104 | 89  | 248 | 108 | 84  | 26  | 65  |    |    |

3900

3867

LINE H

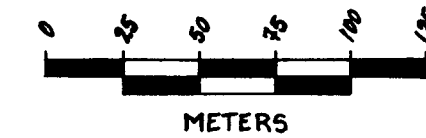
SAMPLE #

3901

LINE I

3931

|     |      |     |     |     |      |      |      |     |      |     |      |     |      |     |     |     |      |     |      |     |     |     |     |     |     |     |     |     |      |     |    |    |    |    |    |    |
|-----|------|-----|-----|-----|------|------|------|-----|------|-----|------|-----|------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|----|----|----|----|----|
| <5  | <5   | <5  | 5   | <5  | <5   | <5   | 5    | <5  | <5   | <5  | <5   | 15  | <5   | <5  | <5  | 5   | <5   | <5  | <5   | <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5   | <5  | <5 | <5 | <5 | <5 | <5 | <5 |
| 0.4 | <0.2 | 0.6 | 0.2 | 0.8 | <0.2 | <0.2 | <0.2 | 0.3 | <0.2 | 0.4 | <0.2 | 0.4 | <0.2 | 0.4 | 0.6 | 0.9 | <0.2 | 0.3 | <0.2 | 0.2 | 0.5 | 0.2 | 0.4 | 0.3 | 0.5 | 0.2 | 1.7 | 0.2 | <0.2 | 0.5 |    |    |    |    |    |    |
| 21  | 8    | 4   | 27  | 25  | 2    | 2    | 15   | 30  | 17   | 24  | 3    | 43  | 18   | 22  | 49  | 41  | 2    | 32  | 19   | 7   | 42  | 24  | 48  | 9   | 16  | 17  | 40  | 20  | 2    | 21  |    |    |    |    |    |    |
| 39  | 19   | 12  | 28  | 84  | 18   | 18   | 21   | 43  | 19   | 68  | 10   | 65  | 22   | 36  | 88  | 123 | 15   | 73  | 18   | 18  | 74  | 39  | 55  | 27  | 26  | 33  | 48  | 47  | 15   | 38  |    |    |    |    |    |    |



|     |     |     |     |     |     |     |      |     |     |      |     |    |     |     |     |      |    |      |     |     |     |      |     |     |     |     |     |     |     |     |    |    |    |   |
|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|-----|----|-----|-----|-----|------|----|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|---|
| <5  | 10  | 5   | <5  | 10  | <5  | <5  | <5   | <5  | <5  | <5   | 5   | NS | 15  | 5   | <5  | <5   | <5 | 15   | <5  | <5  | <5  | <5   | <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5  | <5 | <5 | <5 | 5 |
| 1.4 | 1.1 | 1.0 | 0.7 | 1.0 | 0.8 | 0.6 | <0.2 | 0.5 | 0.3 | <0.2 | 0.4 | NS | 0.3 | 0.7 | 0.7 | <0.2 | NS | <0.2 | 0.5 | 0.4 | 0.2 | <0.2 | 0.3 | 0.5 | 0.3 | 0.4 | 0.2 | 0.4 | 1.0 | 0.9 |    |    |    |   |
| 39  | 25  | 20  | 31  | 35  | 28  | 33  | 12   | 33  | 28  | 9    | 38  |    | 21  | 40  | 55  | 25   |    | 15   | 38  | 43  | 23  | 31   | 54  | 51  | 28  | 27  | 21  | 27  | 58  | 54  |    |    |    |   |
| 92  | 62  | 43  | 83  | 65  | 72  | 80  | 18   | 45  | 93  | 20   | 59  |    | 50  | 74  | 108 | 30   |    | 16   | 72  | 60  | 20  | 16   | 51  | 48  | 55  | 45  | 37  | 43  | 110 | 98  |    |    |    |   |

3962

3932

LINE J

SAMPLE #

3703

LINE A

3694

|     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10  | 340 | <5  | <5  | 5   | <5  | <5  | <5  | <5  |
| 0.7 | 0.4 | 0.2 | 0.7 | 0.2 | 0.4 | 0.5 | 0.4 | 0.2 |
| 54  | 36  | 28  | 55  | 18  | 34  | 42  | 32  | 25  |
| 62  | 85  | 44  | 137 | 33  | 64  | 65  | 76  | 54  |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| <5  | <5  | <5  | <5  | <5  | <5  | <5  |
| 0.8 | 0.8 | 0.4 | 0.5 | 0.4 | 0.8 | 0.9 |
| 60  | 33  | 27  | 76  | 33  | 33  | 46  |
| 100 | 87  | 49  | 107 | 74  | 62  | 87  |

3735

3729

LINE C

SAMPLE #

3784

LINE E

3778

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| 5   | <5  | 15  | 10  | 10  | 80  | <5  |
| 0.9 | 0.5 | 3.0 | 2.2 | 2.0 | 3.7 | 0.8 |
| 28  | 14  | 34  | 23  | 44  | 25  | 25  |
| 86  | 43  | 165 | 65  | 178 | 142 | 91  |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| 5   | <5  | 15  | <5  | <5  | 20  | <5  |
| 1.2 | 0.8 | 2.6 | 0.4 | 1.0 | 5.4 | 0.7 |
| 31  | 34  | 30  | 12  | 24  | 61  | 22  |
| 128 | 121 | 177 | 28  | 77  | 249 | 29  |

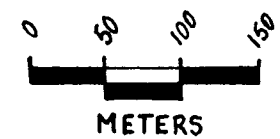
3785

3791

LINE F

Au (ppb)  
Ag (ppm)  
Cu (ppm)  
Pb (ppm)

- SOIL (80 MESH)
- "ROCK CHIP" (PULP)
- < LESS THAN
- NS NO SAMPLE



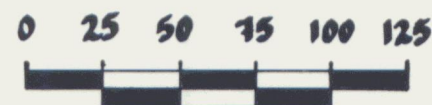
|                                            |                           |                            |
|--------------------------------------------|---------------------------|----------------------------|
| <b>G. MAC DONALD &amp; ASSOCIATES LTD.</b> |                           |                            |
| <b>CARMAC RESOURCES LTD.</b>               |                           |                            |
| <b>CARBON HILL</b>                         |                           |                            |
| <b>CONTOUR SOIL GEOCHEMISTRY</b>           |                           |                            |
| 091681                                     |                           |                            |
| NTS:<br><b>105 D3</b>                      | TECHNICAL:<br><b>G.D.</b> | DATE:<br><b>NOV. 1985</b>  |
| SCALE:<br><b>VARIOUS</b>                   | DRAFTING:<br><b>J.S.</b>  | FIGURE:<br><b>315-85-6</b> |

SAMPLE # 3728

10 7.2 199 900  
 5 0.4 22 38  
 10 0.6 48 78  
 20 1.0 40 107  
 15 0.7 32 92  
 10 0.4 15 112  
 <5 <0.2 4 29  
 5 0.2 5 39

10 0.4 40 48  
 NS

LINE B



SAMPLE # 3704

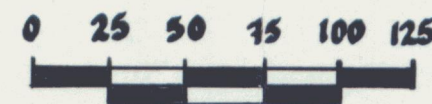
15 0.6 20 40

<5 0.6 82 26  
 10 0.2 50 25  
 30 0.5 63 23  
 5 0.5 14 22  
 5 0.5 34 42  
 NS  
 10 0.4 44 46  
 55 1.8 191 217  
 <5 0.3 25 34  
 10 0.3 33 149  
 10 0.6 42 83  
 680 0.4 53 88  
 35 0.2 30 63  
 320 0.6 27 66

SAMPLE # 3771

95 0.2 38 51  
 <5 <0.2 68 71  
 <5 0.3 85 46  
 <5 0.2 65 84  
 <5 0.6 26 30  
 <5 <0.2 33 33  
 <5 0.4 16 58  
 <5 0.2 37 42  
 <5 <0.2 42 41  
 10 0.4 32 38  
 <5 <0.2 31 18  
 <5 0.2 24 26  
 <5 0.4 26 36  
 <5 0.4 60 34  
 <5 <0.2 37 22  
 <5 <0.2 41 27  
 <5 <0.2 40 14  
 <5 <0.2 37 19  
 <5 <0.2 41 24  
 <5 <0.2 60 21

LINE D



SAMPLE # 3736

<5 0.4 23 21  
 <5 5.8 15 1135  
 <5 <0.2 3 32  
 <5 0.6 20 50  
 <5 0.3 22 78  
 <5 <0.2 12 24  
 <5 1.2 15 221  
 <5 <0.2 3 30  
 <5 0.7 3 113  
 <5 0.4 53 31  
 <5 0.3 31 25  
 <5 0.4 47 23  
 <5 0.2 44 39  
 5 0.2 60 30  
 <5 0.4 55 25  
 <5 0.2 55 21  
 5 0.4 86 26  
 <5 0.4 78 46  
 <5 <0.2 58 35  
 5 <0.2 54 34  
 <5 <0.2 43 20  
 <5 <0.2 78 50

Au Ag Cu Pb  
 (ppb) (ppm) (ppm) (ppm)  
 — SOIL (80 MESH)  
 • "ROCK CHIP" (PULP)  
 < LESS THAN  
 NS NO SAMPLE

G.MAC DONALD & ASSOCIATES LTD.

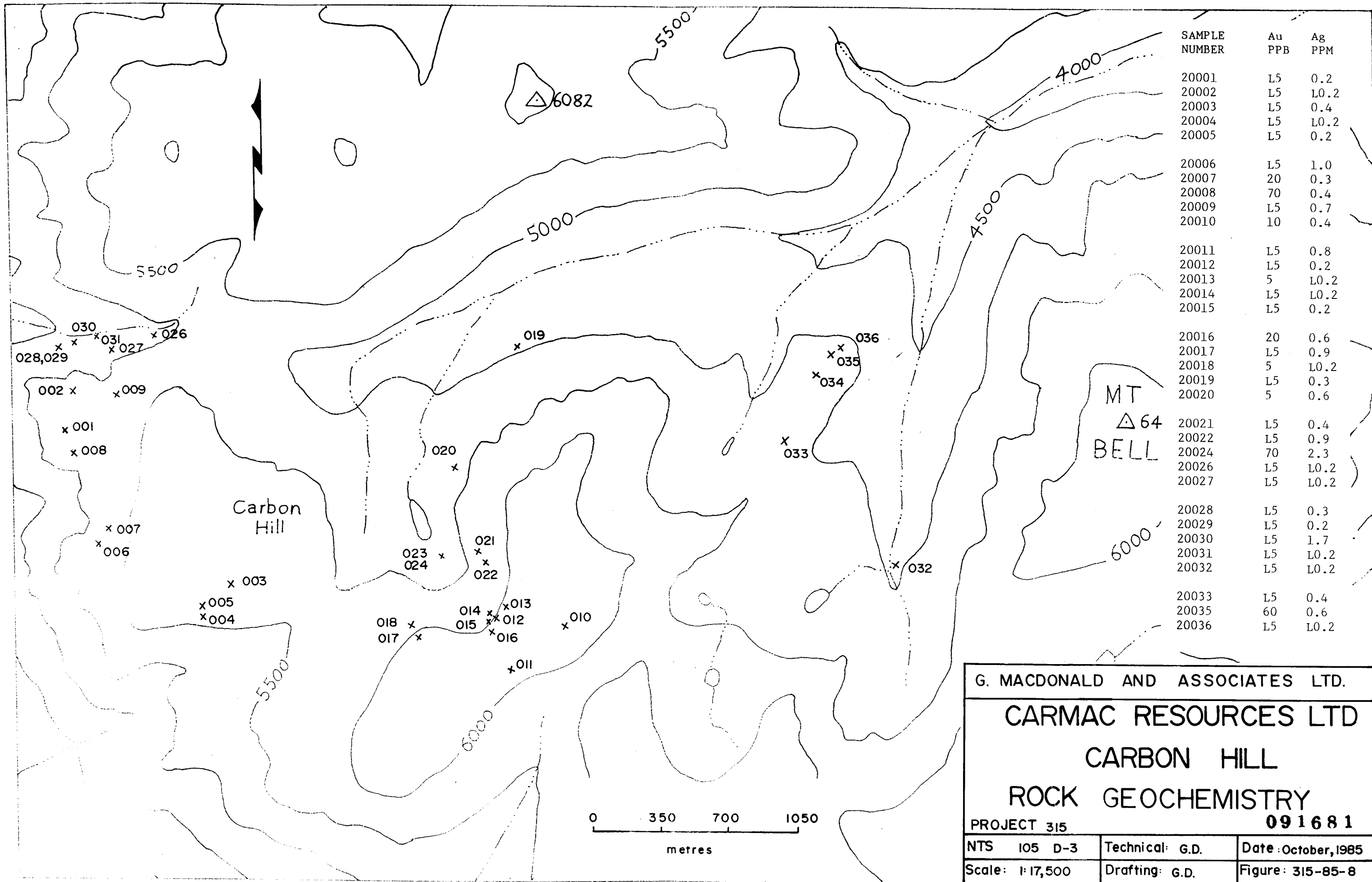
CARMAC RESOURCES LTD.

CARBON HILL

CONTOUR SOIL GEOCHEMISTRY

091681

|                  |                   |                     |
|------------------|-------------------|---------------------|
| NTS:<br>105 D 3  | TECHNICAL:<br>G.D | DATE:<br>NOV. 1985  |
| SCALE:<br>1:2500 | DRAFTING:<br>J.S. | FIGURE:<br>315-85-7 |



| SAMPLE NUMBER | Au PPB | Ag PPM |
|---------------|--------|--------|
| 20001         | L5     | 0.2    |
| 20002         | L5     | 10.2   |
| 20003         | L5     | 0.4    |
| 20004         | L5     | 10.2   |
| 20005         | L5     | 0.2    |
| 20006         | L5     | 1.0    |
| 20007         | 20     | 0.3    |
| 20008         | 70     | 0.4    |
| 20009         | L5     | 0.7    |
| 20010         | 10     | 0.4    |
| 20011         | L5     | 0.8    |
| 20012         | L5     | 0.2    |
| 20013         | 5      | 10.2   |
| 20014         | L5     | 10.2   |
| 20015         | L5     | 0.2    |
| 20016         | 20     | 0.6    |
| 20017         | L5     | 0.9    |
| 20018         | 5      | 10.2   |
| 20019         | L5     | 0.3    |
| 20020         | 5      | 0.6    |
| 20021         | L5     | 0.4    |
| 20022         | L5     | 0.9    |
| 20024         | 70     | 2.3    |
| 20026         | L5     | 10.2   |
| 20027         | L5     | 10.2   |
| 20028         | L5     | 0.3    |
| 20029         | L5     | 0.2    |
| 20030         | L5     | 1.7    |
| 20031         | L5     | 10.2   |
| 20032         | L5     | 10.2   |
| 20033         | L5     | 0.4    |
| 20035         | 60     | 0.6    |
| 20036         | L5     | 10.2   |

G. MACDONALD AND ASSOCIATES LTD.

**CARMAC RESOURCES LTD**

**CARBON HILL**

**ROCK GEOCHEMISTRY**

PROJECT 315 **091681**

|                 |                 |                     |
|-----------------|-----------------|---------------------|
| NTS 105 D-3     | Technical: G.D. | Date: October, 1985 |
| Scale: 1:17,500 | Drafting: G.D.  | Figure: 315-85-8    |

APPENDIX I

STATEMENT OF EXPENDITURES

Geochemistry

(Bondar-Clegg and Co. Ltd.)

|                                      |            |
|--------------------------------------|------------|
| 226 soil samples (Au, Ag, Cu, Pb)    | \$2,681.30 |
| 28 silt samples (Au, Ag, As, Cu, Pb) | 431.20     |
| 33 rock samples (Au, Ag)             | 396.00     |
|                                      | <hr/>      |
|                                      | \$3,508.50 |

Transportation

|                                   |          |
|-----------------------------------|----------|
| Frontier Helicopters' Bell 206B   | 396.00   |
| Four-wheel-drive vehicle and fuel | 410.00   |
|                                   | <hr/>    |
|                                   | \$806.00 |

Personnel

|               |                       |            |
|---------------|-----------------------|------------|
| R. Robertson: | 1½ days @ \$400/day   | \$600.00   |
| G. Davidson:  | 8 days @ \$262.50/day | 2,100.00   |
| J. Atkinson:  | 5 days @ \$135/day    | 675.00     |
| M. Van Veen:  | 5 days @ \$112.50/day | 562.50     |
|               |                       | <hr/>      |
|               |                       | \$3,937.50 |

Camp and field equipment, supplies, food, expediting \$630.00

Report preparation, drafting, secretarial \$500.00

|                     |                   |
|---------------------|-------------------|
| TOTAL EXPENDITURES: | \$3,508.50        |
|                     | 806.00            |
|                     | 3,937.50          |
|                     | 630.00            |
|                     | 500.00            |
|                     | <hr/>             |
|                     | <u>\$9,382.00</u> |

G. MACDONALD AND ASSOCIATES LIMITED  
Consulting Professional Geologists

4 Hyland Crescent  
Whitehorse, Y.T.  
Y1A 4P6

(403) 668-2044

(403) 667-7229

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, **GRAHAM DAVIDSON**, of the City of Whitehorse in the Yukon Territory,  
HEREBY CERTIFY:


THAT I am a geologist employed by G. Macdonald and Associates Limited AND  
THAT I caused to be performed the work described in this report;

THAT I am a graduate of the University of Western Ontario (H.B.Sc., Geology,  
1981);

THAT I am registered as a Professional Geologist by the Association of Professional  
Engineers, Geologists and Geophysicists of Alberta (No. 42308);

THAT I have been engaged in mineral exploration on a full-time and part-time  
basis for seven years, of which five have been in the Yukon and Northwest  
Territories.

SIGNED at Whitehorse, Yukon Territory, this 27 day of November ,  
1985.

  
\_\_\_\_\_  
G. S. Davidson, P.Geol.

4 Hyland Crescent  
Whitehorse, Y.T.  
Y1A 4P6

(403) 668-2044

(403) 667-7229

**APPENDIX II**

**STATEMENT OF QUALIFICATIONS**

I, **RONALD CHARLES RAMSAY ROBERTSON**, of the City of Whitehorse in the Yukon Territory, HEREBY CERTIFY:


THAT I am a Geologist employed by G. Macdonald and Associates Ltd. AND THAT I caused to be performed, and supervised, the work described in this report;

THAT I obtained a Bachelor of Science degree with First Class Honours in Geology from the University of Aberdeen, Scotland, in 1970 and subsequently carried out graduate studies at McMaster University, Hamilton, Ontario, and at Queen's University, Kingston, Ontario;

THAT I have been engaged in mineral exploration on a full-time and part-time basis for sixteen years, of which eight have been on mineral exploration programs in the Yukon Territory, British Columbia and Alaska;

THAT I am a member of the Geological Association of Canada, the Canadian Institute of Mining and Metallurgy, and the Prospectors and Developers Association.

DATED at Whitehorse, Yukon Territory, this *27* day of *November*, 1985.

  
\_\_\_\_\_  
Ronald C. R. Robertson