ARIS SUMMARY SHEET

District Geologist, Smithers — Off Confidential: 92.03.08

ASSESSMENT REPORT 21287 — MINING DIVISION: Liard

PROPERTY: Hank
LOCATION: LAT 57 14 00 LONG 130 30 00
UTM 09 6344144 409450
NTS 104G01W 104G02E
CLAIM(S): Hank 1-5
OPERATOR(S): Carmac Res.
AUTHOR(S): Visagie, D.
REPORT YEAR: 1991, 78 Pages
KEYWORDS: Triassic,Stuhini Group,Andesites,Quartz veins,Gold
WORK
DONE: Drilling,Geochemical
DIAD 1458.4 m 5 hole(s);BQ
Map(s) - 6; Scale(s) - 1:400,1:5000
SAMP 453 sample(s) ;ME
RELATED
REPORTS: 08546,12098,13594,19523
MINFILE: 104G 107

LOG NO: May 15/91 RD.
ACTION:

FILE NO:

DIAMOND DRILLING REPORT

ON THE HANK PROPERTY

BALL CREEK AREA, BRITISH COLUMBIA

LIARD MINING DIVISION

NTS: 104G/1&2
Latitude: 57° 15'
Longitude: 130° 30'

OPERATOR: Carmac Resources Ltd.
860 - 625 Howe St.
Vancouver, B.C.
V6C 2T6

WORK CONDUCTED: July 15 - September 30, 1990

REPORT BY: Dave Visagie
April 25, 1991

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,287

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FIGURES (con't)

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APPENDICES

1.0 INTRODUCTION

The Hank property is located approximately 16 km west of the Stewart-Cassiar Highway in the Ball Creek area of northern B.C. During 1990 the claims were held under option agreement by Carmac Resources from Lac Minerals. Previous exploration has shown the property to be underlain by Upper Triassic Stuhini Group volcanics in which two zones: Lower and Upper of sericite pyrite alteration occur. In addition, a third zone felsite, was identified that refers to an area of intense clay, silica and pyrite alteration. Drilling has shown both the Upper and Lower Alteration zones to contain significant discrete sections of gold mineralization. The purpose of the 1990 drill program was to test the continuity and grade of these zones. A total of 1458.4 m of BQ drilling, in five holes, was completed in a 21 day period.

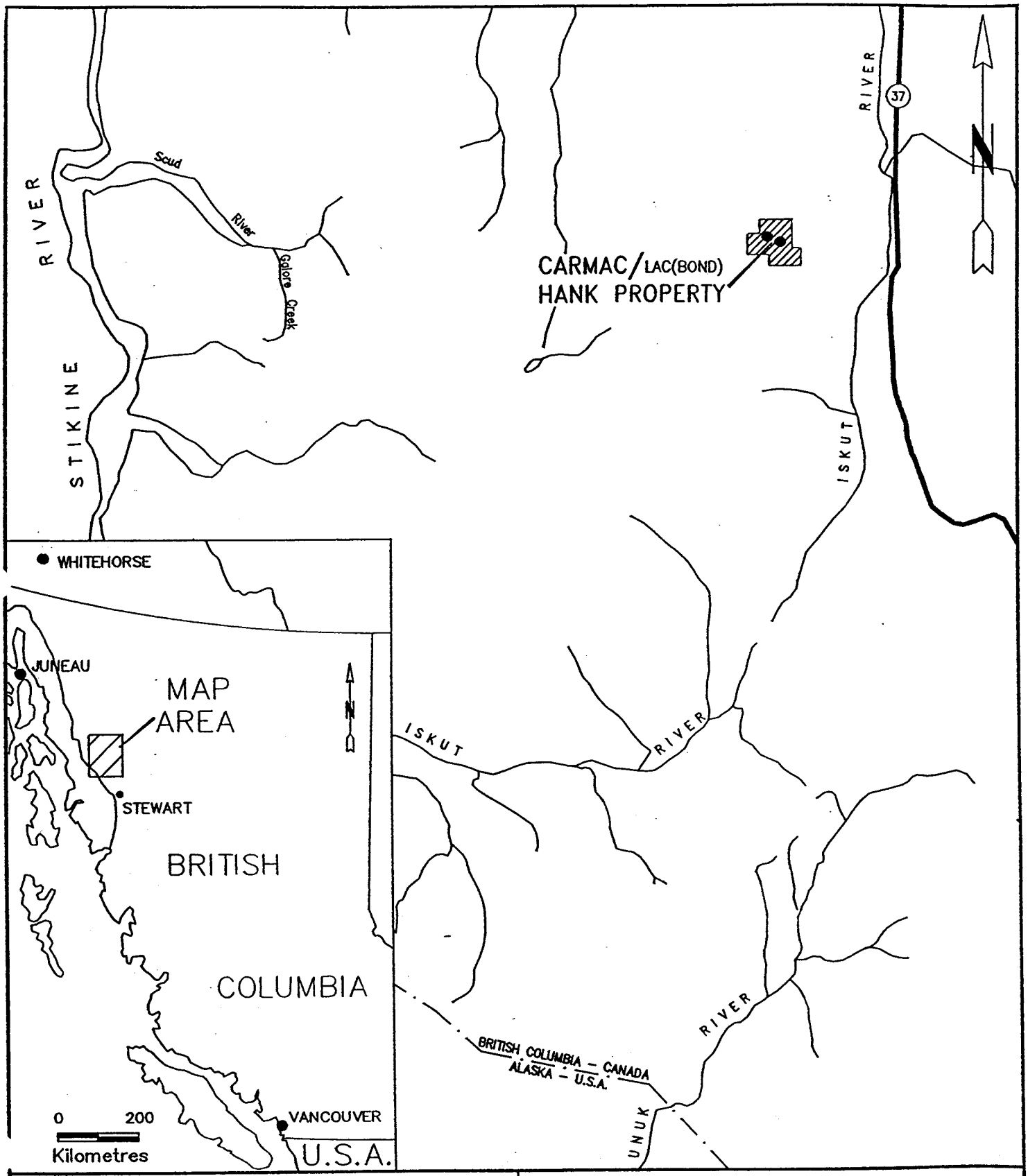
2.0 LOCATION AND ACCESS (Figure 1)

Access to the region is via Highway 37 (the Stewart-Cassiar Highway), from the Burrage Creek emergency landing air strip, located on the east side of the Iskut River, approximately 370 km north of Kitwanga, B.C. The Hank claims are situated 15 air km west of Highway 37 along a tributary of Ball Creek, herein termed Hank Creek, approximately 20 air km south of the Mount Edziza Provincial Park. Helicopter flying time to the property from the Burrage Creek strip is approximately 15 minutes. A helicopter base is maintained at Bob Quinn, 10 km to the south of the Burrage strip.

3.0 TOPOGRAPHY, VEGETATION AND CLIMATE

Local topographic relief is moderate to very steep with elevations ranging from approximately 900 m along Hank Creek to over 1,950 m in the eastern portion of the property. The area exhibits the characteristics of typical glaciated physiography, including wide U-shaped, drift-filled valleys flanked by steep rugged mountains, cirques and deeply incised V-shaped upland valleys.

Vegetation consists mainly of dense alder, willow, and mature conifers such as spruce, fir, and hemlock along the valley slopes. At higher altitudes above timberline, generally between 1,400 m and 1,600 m above seal level, the vegetation changes to subalpine and alpine with the highest parts of the property supporting only moss and lichen. Glaciers and snowfields occur frequently throughout the area, usually above 1,600 m. The period of least snow cover occurs between July and mid-September. Summers are relatively cool and wet, while winters are cold and snowy.



CARMAC RESOURCES LTD.

HANK PROPERTY

FIGURE 1

NTS 104G/1 & 2	DRAWN BY: T. KIRBY	DATE: AUGUST 10, 1990

4.0 CLAIM STATUS (Figure 2)

The Hank property, consisting of four contiguous claims totalling 68 units, occurs within the Liard Mining Division of B.C. The Hank 1, 2, and 3 claims were staked by Lac in March 1983 to cover anomalous gold stream samples collected from gossanous rocks adjacent to Hank Creek. The Hank 4 claim was staked in September 1984 to consolidate the claim group. In 1990 Lac optioned the property to Carmac Resources Ltd. who acted as operator.

The pertinent claim data is summarized below:

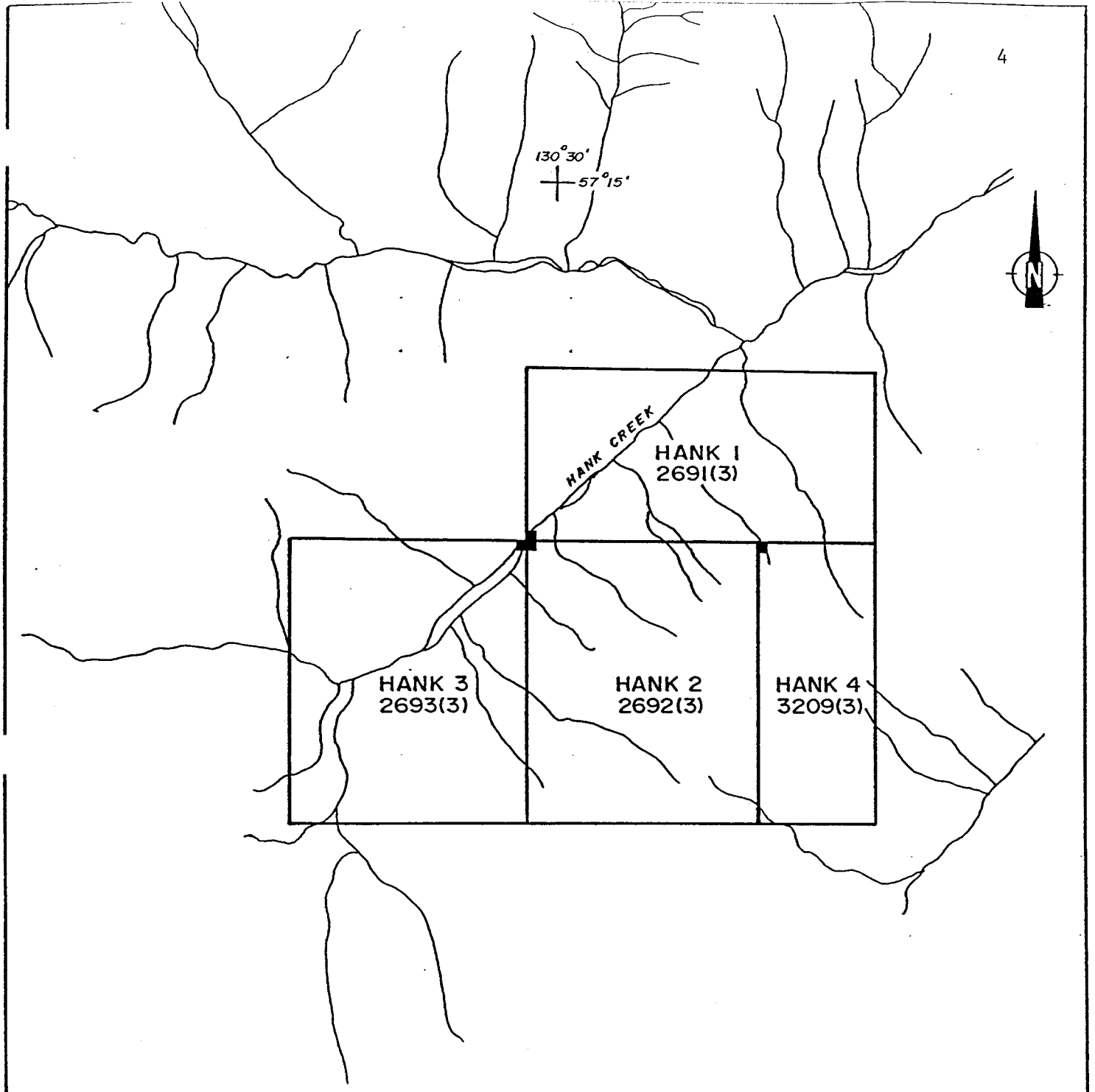
Claim Name	# of Units	Record #	Expiry Date
Hank 1	18	2691	March 10, 2001
Hank 2	20	2692	March 10, 2001
Hank 3	20	2693	March 10, 2001
Hank 4	10	3209	October 12, 1999

5.0 EXPLORATION HISTORY

Exploration dates back to the 1900's when limited exploration for placer gold was completed in the area. Little work was done until the 1950's when Hudson's Bay Mining and Smelting located the Galore and Canyon Creek porphyry Cu-Au deposits. During the late 1950's and 1960's, several major mining companies conducted regional reconnaissance programs resulting in the discovery of several porphyry copper deposits.

Recent exploration and development activity has focused on vein and fissure vein gold mineralization in the Iskut River area. As a result several new discoveries were made, including Skyline's Johnny Mountain, Prime Resources'/Cominco's Snip, Newhawk's Sulphurets, Magna Ventures' Doc, Prime Resources Group Inc.'s Eskay Creek. In addition, a renewed emphasis has been placed on porphyry Cu-Au deposits.

Exploration and development at the Hank property dates back to 1983 and is summarized on Table 1.



1.0 0 1.0 2.0 km

Scale 1:50,000

CARMAC RESOURCES LTD.

HANK PROPERTY

CLAIM MAP

SCALE: 1:50,000	N.T.S.: 104G/1&2	FIGURE No: 2
DWN. BY:	DATE: Dec./1989	
CHKD. BY:	PROJECT No:	FILE No:

TABLE 1 HISTORY OF WORK

1983	February	- Hank 1, 2, 3 claims staked
	March 10	- Hank 1, 2, 3, claims recorded
	August	- completed preliminary soil, rock and stream sediment sampling and geological mapping
1984	July, August	- linecutting, grid soil sampling, rock sampling of alteration zones in creeks, VLF-magnetics survey, hand trenching, soil pits, map geology, I.P. geophysics
	September	- stake the Hank 4 claim, B.Q. core drilling of four holes totalling 288.1 m
	October 12	- Hank 4 claim recorded
1985	July, August September	- backhoe trenching, B.Q. core drilling of 46 holes totalling 4209.3 m in "HOTSPOT" area, petrographic study
1987	August, September	- I.P. geophysics, backhoe trenching, B.Q. core drilling of 9 holes totalling 1048.2 m, map geology
1988	August, September	- B.Q. core drilling of 23 holes totalling 4736 m, petrographic study, road building
1989	July, August September	- linecutting, road building, mapping, rock sampling, thin section study, N.Q.-B.Q. core drilling of 11 holes totalling 1610.6 m.
1990	June	- Carmac Resources Ltd. optioned the property
	August, September	- completed a five hole drill program totalling 1458.4 m

6.0 REGIONAL GEOLOGY AND MINERALIZATION

The property occurs within the westernmost part of the Intermontane Tectonic Belt, close to its contact with the Coastal Crystalline Tectonic Belt. As a result of the proximity of this area to a regional tectonic boundary, geologic relationships tend to be quite complex. The Hank claims are situated within Stikinia accreted terrane of the Canadian Cordillera. The geology of this area has been studied by Kerr (1930, 1948), and by Grove (1986), and is presented in Geological Survey of Canada Maps 9-1957, 1418A and 1505A.

The oldest rocks in the region are complexly folded, metamorphosed schists and gneisses of probable mid-Palaeozoic age. Metamorphism occurs within and adjacent to a plutonic system. The metamorphic rocks are commonly overlain by a white to grey crystalline limestone that is believed to belong to a Late Palaeozoic sedimentary sequence that includes some minor greenstone units. This oceanic assemblage is part of the Stewart Complex, a tectonic unit which has been correlated with the Cache Creek Group.

The principal component of the Intermontane Tectonic Belt in the Iskut River area is a Mesozoic volcanic and sedimentary sequence, correlative with time equivalent Stuhini volcanics. Grove correlates this unit with Middle Jurassic Unuk River Formation rocks of the Stewart Complex. In the Galore Creek area, Souther (1971) has mapped the Upper Triassic Hazelton Group as an undifferentiated sequence of island arc volcanics and sediments.

On the north slopes of Johnny Mountain and Snippaker Peak, Palaeozoic meta-sedimentary rocks are found to overlie the Mesozoic sequence. These apparently represent the upper plate of a regional, east-west trending thrust fault, which pushed up and over to the south in a manner similar to that of the King Salmon Thrust Fault.

In the Coast Crystalline Tectonic Belt, Palaeozoic and Mesozoic sequences are commonly intruded by Late Cretaceous to Early Tertiary plutonic rocks of quartz monzonite to quartz diorite composition. To the east of the main intrusive complex, smaller granitic plugs and stocks are prevalent.

Quaternary flows and ash deposits of olivine basalt are the youngest rocks in the area. Hoodoo Mountain, to the south of the property, is underlain by these units, which also occur in parts of the valleys of the Iskut River and Snippaker Creek.

Several styles of mineralization exist in the area including porphyry Cu-Au mineralization as occurs at Galore Creek, precious metal rich polymetallic deposition as exhibited at the Eskay and Skyline mines and shear hosted precious metal bearing quartz veins as located at the Sulphurets and Snip deposits.

7.0 PROPERTY GEOLOGY (Figure 3)

The Hank property is underlain by a thick succession of Upper Triassic to Middle Jurassic volcano-sedimentary lithologies. The strata have been intruded by a series of plutons which represent different intrusive episodes. These intrusions consist of synvolcanic plugs, dykes and stocks. The Upper Triassic sequence consists of Stuhini Group andesitic tuffs, flows and trachytic volcanics. Middle Jurassic sediments of the Spatsizi Group unconformably overly the Stuhini Group.

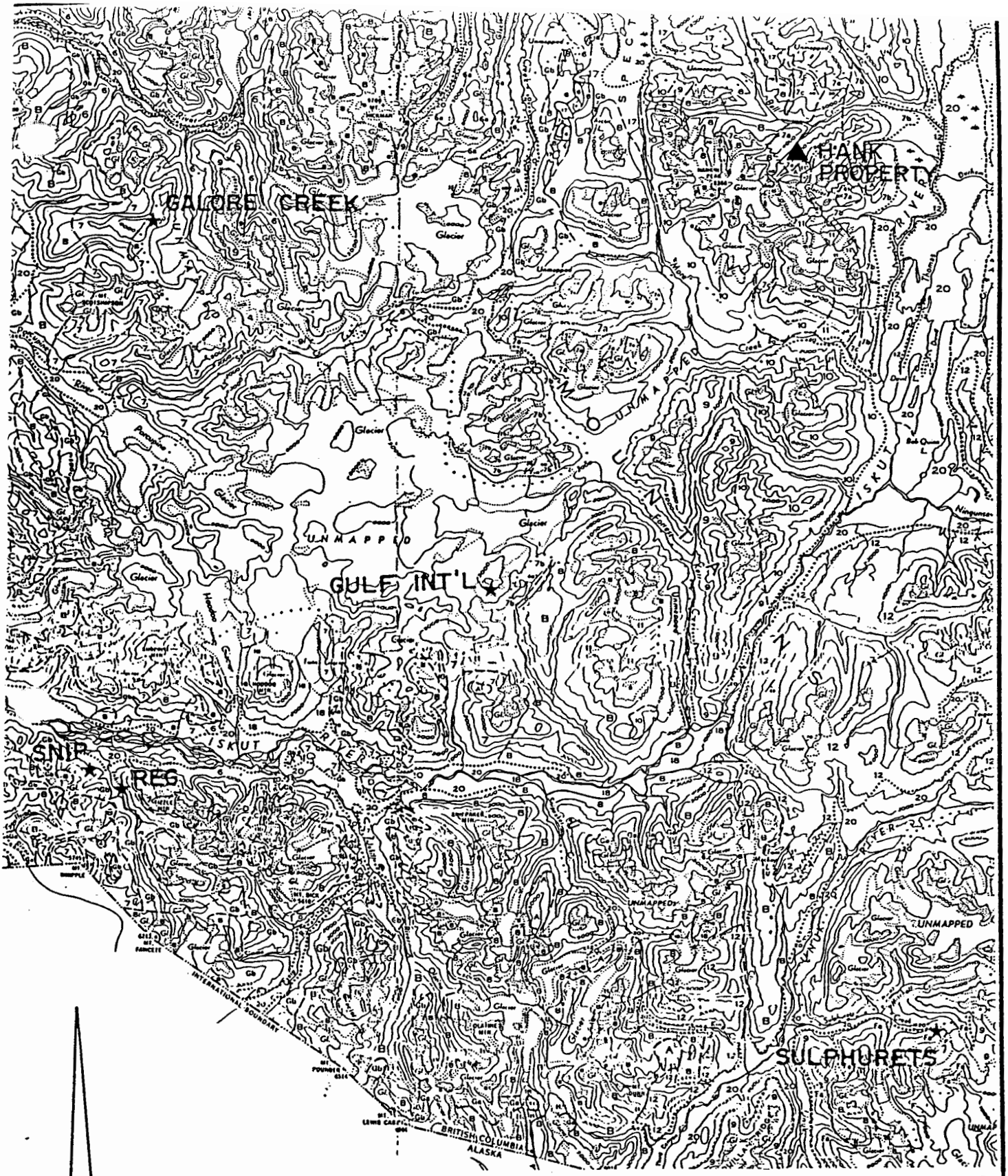
Overall the Stuhini Group rocks are north-east striking, and dip at 10°-50° to the south-east. The Spatsizi Group are variably striking and generally flat to shallow dipping.

Three distinct zones of alteration have been outlined; the Lower Alteration Zone (LAZ), Upper Alteration Zone (UAZ), and felsite.

The Lower Alteration Zone is north-east trending, steeply dipping (fault controlled?), 150 m wide and 2,500 m long area in which the hosting andesitic pyroclastics and volcanics are altered to a mass of carbonate, sericite and pyrite. Within this alteration are obliquely cutting 30-40 m wide stockwork, and vein-shear "high background" sections in which veinlets of rhodochrosite, calcite, siderite +/- quartz and barite with accessory galena, sphalerite, chalcopyrite and tetrahedrite occur. The LAZ typical averages 50-100 ppb Au, while the "high background" sections average 100-700 ppb Au. Individual vein shears or distinct highly mineralized zones of 0.5-5.0 m contain up to 95 g/tonne Au.

The Upper Alteration Zone is north-east trending, variably dipping from steep to subparallel to bedding and ranges from 100-200 m wide with a strike of at least 2,500 m. The volcaniclastics are altered to a mass of carbonate, sericite and pyrite. The UAZ is characteristically subdivided into a weakly silicified NE portion (1 km) with minor Au values, a central (0.4 km) "Hot Spot" area with less than 10% pyrite and intense siderite-quartz veining with associated Au mineralization, and thirdly the SW segment (1.5 km) with low pyrite (1-2%), minor carbonate veining but extensive low grade gold showings (surface trench 462 ppb Au over 115 m.).

The "felsite" is an area of low gold (<100 ppb) that has been intensely silica-clay-pyrite altered. In the "Hot Spot" area the "felsite" and UAZ are divided by a 50 m wide clay gouge zone of moderately east dipping nature.



SEE FOLLOWING PAGE FOR LEGEND

0 5 10 20 30 kilometres

CARMAC RESOURCES LTD.		
HANK PROPERTY		
REGIONAL GEOLOGY MAP		
Scale 1:500,000	Date Dec/1989	N.T.S. 104G/182
By		Figure 3

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

CENOZOIC

QUATERNARY
RECENT

20 Unconsolidated glacial and fluvial clay, silt, sand, gravel; till; peat, muskeg

19 Tufa, hot spring deposits

18 Olivine basalt, ash, cinders

TERTIARY
PLEISTOCENE AND (?) EARLIER

17 Basalt, rhyolite, ash, tuff, agglomerate; locally may include 16; 17a, rhyolite, pisolitic siliceous tuff, chalcedonic rhyolite breccia

EOCENE

16 Basalt, rhyolite and associated volcanic rocks; minor conglomerate, sandstone, shale

CRETACEOUS AND TERTIARY
UPPER CRETACEOUS AND PALEOCENE

15 Conglomerate, sandstone, shale, minor coal

MESOZOIC

CRETACEOUS
POST LOWER CRETACEOUS

14 Volcanic rocks, breccia

JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS

12 Argillite, greywacke, conglomerate, coal; 12a, andesite, chert, tuff, conglomerate, shale, greywacke

CRETACEOUS AND /OR EARLIER
PRE UPPER CRETACEOUS

13 Mainly volcanic rocks; minor conglomerate, greywacke; chert, argillite

JURASSIC
LOWER AND MIDDLE JURASSIC

11 Conglomerate, greywacke, grit, siltstone, shale; 11a, may include younger rocks

TRIASSIC

8 Tuff, siltstone, limestone, conglomerate, breccia

JURASSIC AND /OR EARLIER
PRE UPPER JURASSIC

9 10 9. Mainly volcanic rocks; minor conglomerate; greywacke, argillite
10. Mainly sedimentary rocks

PERMIAN AND/OR TRIASSIC

J Gneiss, schist, crystalline limestone, crystalline dolomite, quartzite

Geological boundary (defined, approximate, assumed)

Limit of geological mapping

Bedding (horizontal, inclined, vertical, overturned) (dip, g, gentle; m, medium; s, steep)

Bedding, inclined (direction of tops unknown, overturning suspected)

Schistosity, gneissosity (inclined, vertical, dip unknown)

Fault (defined, approximate, assumed)

Anticline (defined, approximate)

Syncline (defined, approximate)

Anticline, syncline (overturned)

Trend of complexly folded beds (direction of plunge known, unknown)

Belt of quartz diorite and quartz porphyry dykes

Glacial striae (direction of movement known, unknown)

Placer mine

Mine or prospect

Cinder cone or recent volcanic crater

8.0 1990 WORK PROGRAM

In preparation for the 1990 program a base camp was established on Hank Creek at the site of the 1989 Hi-Tec campsite. During the course of the program, several previously established drill sites were re-surveyed as the 1990 sites. Five NQ sized diamond drill holes totalling 1458.4 m were drilled. All drilling was completed by Boisvenu Drilling of Vancouver, B.C. Drilling commenced on August 17th and finished September 6th. Throughout the program, the daily average was 66.3 m. The majority of assaying was completed by Eco-Tech Laboratories, Kamloops, B.C. with some samples being sent to Min-En Labs, Vancouver, B.C. In addition, a limited number of check samples were sent to Vangeochem, Vancouver, B.C. The 1990 drill core is presently stored at the base camp.

9.0 GEOCHEMISTRY

A total of 453 drill core samples were split and sent for analysis. All core was logged and split on site, stored in plastic bags ,then sent for analysis. Assay results for Cu, Au and Ag are entered in the drill logs and plotted on the drill cross-sections. All assay results are listed in Appendix 2.

9.1 Assay Procedure

All of the samples were analyzed, by either Eco-Tech Laboratories in Kamloops, B.C., or Min-En Labs, Vancouver, B.C. using the 30 element Inductively Coupled Plasma (I.C.P.) method with gold content being determined by atomic absorption. Samples that contained >1000 ppb Au, were assayed. In addition a number of check samples were checked for gold by Vangeochem.

The following is an outline of the procedure used for the preparation and analysis of the samples:

Samples dried (if necessary), crushed or sieved to pulp size and pulverized to approximately -140 mesh.

For the 30 element I.C.P. analysis, a 10 gram sample is digested with 3 ml of 3:1:3 nitric acid to hydrochloric to water at 90° C for 1.5 hours. The sample is then diluted to 20 mls with demineralized water and analyzed. The leach is partial for Al, B, As, Ca, Cr, Fe, K, Mg, Ma, Na, Q, Sb, Ti, U, and W.

For gold determination by atomic absorption, a 10 gram sample that has been ignited overnight at 600° C is digested with hot dilute aqua regia and the clear solution obtained is extracted with Methyl Isobutyl Ketone (MIBK). Gold is determined in the MIBK extract by atomic absorption using a background detection (detection limit 5ppb).

For fire assay analysis, a one assay ton subsample is used.

10.0 DRILL SUMMARY (Figures 4-9)

The purpose of the 1990 drill program was to test the continuity and grade of the Upper and Lower Alteration Zones. Three holes totalling 1125.9 m were drilled in the Lower Alteration Zone while two holes with a combined length of 332.5 m were drilled in the Upper Alteration Zone. The drill hole data is summarized on Table 2 with the following being a summary of the results for each zone. The drill logs are located in Appendix 1 while the drill hole locations are plotted on Figure 4.

10.1 Lower Alteration Zone (Figures 5-7)

Previous drill programs completed by Lac Minerals have shown the Lower Alteration Zone to contain discrete areas of gold mineralization with the best section, located in hole 88-4 averaging 0.391 opt Au, 3.86 opt Ag, 1.00% Pb, and 1.57% Zn over 9.14 m. From an inspection of the drill core it appeared that the zone is associated with an area of increased silicification within volcaniclastic breccias in which narrow stringers of galena, sphalerite and chalcopyrite occur.

Three holes; 90-1, 2 and 3 were drilled to test the along strike and down dip extensions of this intersection. Hole 90-1 located so as to test the section 20 m down dip intersected a corresponding zone that contains minor sphalerite within quartz veins. However, while gold assays are anomalous they are low ranging up to 300 ppb.

Holes 90-2 and 3 were located to test the zone intersected in hole 88-4 approximately 60 and 120 m along strike to the north. In addition, hole 90-3 was spotted so as to test the down dip extension of a zone intersected in hole 89-5 that averaged 0.298 opt Au, 5.12 opt Ag, 0.13% Pb, and 1.13% Zn over 2.12 m. Holes 90-2 and 3 both intersected the same package of rocks as noted in holes 88-4 and 90-1. In the case of hole 90-2, a zone of weak sphalerite, galena and chalcopyrite mineralization within an area of moderate silicification that corresponds with the projection of the 88-4 intersection was intersected. Gold values although anomalous are generally low ranging up to 890 ppb Au. Hole 90-3 intersected low grade, up to 500 ppb Au that corresponds with the section in 88-4. In addition, a 1 m section that assayed 1080 ppb Au that corresponds with the section averaging 0.298 opt Au, 5.12 opt Ag, 0.13% Pb and 1.13% Zn over 2.12 m was intersected.

TABLE 2
DRILL HOLE SUMMARY

Hole #	Location North	East	Bearing	Dip	Elevation (m)	Length (m)	Zone	Intersection From (m)	To (m)	Int (m)	Au (ppb)
90–1	10675.5	9902.0	139	–49	1030.2	355.1	Lower	178.3	179.1	0.8	1370
90–2	10676.3	9902.0	122	–49	1080.2	367.9	Lower	225.7	226.7	1.0	890
								326.6	332.2	5.6	471
90–3	10721.5	10058.0	135	–45	1072.3	402.9	Lower	99.0	101.0	2.0	915
								122.8	125.8	3.0	760
								145.7	142.6	0.5	1510
90–4	10271.8	10949.3	292	–45	1465.8	152.4	Upper	31.3	39.3	8.0	896
								53.3	56.3	3.0	740
90–5	10272.9	10949.7	310	–45	1464.9	180.1	Upper	58.3	64.5	6.2	1062
								79.5	109.5	30.0	738

10.2 Upper Alteration Zone (Figures 8-9)

Holes 90-4 and 5 were located to test the down dip continuity of the Upper Alteration Zone in the vicinity of holes 85-4 and 45. Hole 85-45 intersected a 30.48 m section that averaged 0.109 opt Au. Within this section individual assays of up to 0.500 opt Au occur. Hole 85-32 intersected a 12.19 m section that averaged 0.274 opt Au. In both cases the hosting rock is a sericite carbonate, pyrite altered agglomerate-volcaniclastic breccia that has been intensely sheared in which narrow quartz-carbonate stringers occur with the best grade values being associated with well mineralized (chalcopyrite, galena and sphalerite) quartz vein stringers in which occasional visible gold occurs. Hole 90-4 was located to test 40 m down dip, the possible extension of the zone, as defined in hole 87-1. Although hole 90-4 intersected similar geology, only a limited number of mineralized veins or stringers were located with gold values throughout the hole being anomalous but low, up to 390 ppb Au. Hole 90-5 was located so as to test 30 m down dip, the extension of the Upper Alteration Zone as located in hole 85-32. As was the case in hole 90-4, drill hole 90-5 intersected similar lithology to hole 85-32, however, no significant zones of quartz veining or base metal mineralization were located. Maximum gold values are 1490 ppb Au.

10.3 Check Sampling

During the course of the program a limited number of samples were re-assayed to check the reproducibility of results. Table 3 is a listing of the results.

10.4 Surveying

All of the 1990 drill sites were surveyed by qualified personnel. In addition, several of the previously drilled holes were resurveyed and the new co-ordinates are listed in Table 4.

TABLE 3 CHECK SAMPLE RESULTS: HANK PROJECT

Sample #	Eco-Tech Labs 1st (ppb)	2nd (ppb)	Vangeochem (ppm)
84706	195	180	260
84722	10	<5	40
83625	340	270	340
83646	75	85	80
83676	0.043*	0.043*	0.045*
83501	0.032*	0.030*	0.020*
83509	285	290	340
83512	0.044*	0.040*	0.053*
84777	145	110	200

* assayed opt Au, all others ppb

The samples chosen were selected so as to represent a cross-section of the assays. From the results it is observed that in general there is good reproducability of the assays.

TABLE 4 CORRECTED DRILL COORDINATES

DDH #	EAST	NORTH	ELEVATION
84-1	10897.62	10466.18	1419.85
84-3	11084.61	10423.16	1464.44
84-12	11113.53	10444.90	1463.34
85-1	11010.53	10326.82	1467.09
85-2	10988.11	10297.99	1467.56
85-4	10973.37	10270.92	1467.52
85-5	10921.52	10255.78	1461.44
85-6	11065.12	10452.86	1452.54
85-7	10880.66	10239.37	1457.97
85-8	11027.70	10499.03	1443.06
85-9	10894.14	10293.08	1447.85
85-10	10991.47	10519.66	1436.20
85-11	10865.04	10267.66	1448.19
85-13	10833.74	10294.46	1439.95
85-15	11025.60	10382.17	1459.57
85-16	11066.17	10536.37	1449.99
85-17	11049.30	10347.42	1471.06
85-18	11064.64	10602.42	1441.87
85-19	11064.72	10377.85	1467.03
85-20	11040.31	10630.16	1433.02
85-21	10981.82	10246.70	1471.10
85-23	11079.04	10321.04	1490.14
85-24	11097.63	10567.28	1459.70
85-25	11128.08	10517.93	1469.36
85-26	11044.04	10294.66	1482.74
85-27	11146.05	10481.12	1472.35
85-28	11015.06	10267.08	1478.27
85-29	11116.72	10227.06	1511.79
85-30	11078.49	10265.27	1497.98
85-31	10814.37	10258.63	1446.37
85-32	10895.83	10341.77	1423.70
85-34	10952.60	10445.30	1427.04
85-35	11107.08	10294.30	1500.93
85-36	11070.42	10654.86	1435.99
85-37	10948.86	10547.93	1421.14
85-39	11064.52	10572.52	1447.09
85-40	10961.15	10414.92	1425.98
85-42	10949.57	10348.27	1433.36
85-44	10815.34	10284.47	1441.23
85-45	10877.57	10297.01	1447.85
85-46	11024.14	10473.87	1445.21

TABLE 4 (Con't) CORRECTED DRILL COORDINATES

88-4	10114.29	10472.66	1142.13
88-8	10460.63	10896.57	1168.31
88-10,12	10459.01	11180.75	1092.23
88-22	10034.25	10545.96	1097.24
89-1	10162.70	10670.10	1116.80
89-2	10162.70	10670.10	1116.80
89-3	10162.70	10670.10	1116.80
89-5	10132.60	10645.30	1109.82
89-6	10072.40	10585.40	1103.41
89-7	10073.01	10584.71	1103.45
89-8	10010.34	10458.41	1113.83
89-9	10443.12	11015.09	1123.04

11.0 SUMMARY AND CONCLUSIONS

Previous mapping and drilling on the Hank property has outlined two zones of extensive quartz-sericite-pyrite alteration: Upper and Lower within Stuhini Group volcanics and volcaniclastics on the Hank property. Within these zones of alteration occur discrete areas of gold and silver mineralization. The gold and silver values appear to be related to narrow mineralized, galena, sphalerite and chalcopyrite bearing quartz stringers. The purpose of the 1990 program was to test both zones along strike and dip for continuity.

Three holes totalling 1125.9 m were drilled in the Lower Zone in the vicinity of hole 88-4 where a 9.14 m section averaged 0.391 opt Au, 3.86 opt Ag, 1.00% Pb and 1.57% Zn was located. Although similar stratigraphy was encountered, no significant zones of gold mineralization were located. On the Upper Alteration Zone, two holes totalling 332.5 m in length were drilled to test the intersections encountered in the area of holes 85-32 and 45 where sections averaging 0.109 opt Au over 30.48 m and 0.274 opt Au over 12.19 m were intersected. As was the case in holes 90-1, 2, and 3 similar stratigraphy was encountered, however, the gold values while significant were generally low with maximum values of up to 1490 ppb Au.

From all available data, it appears that both zones are discontinuous along strike and dip. The potential for tonnage appears limited.

12.0 RECOMMENDATIONS

It is recommended that no further work be completed by Carmac Resources Ltd. on the Hank property.

13.0 COST STATEMENT - HANK PROPERTY

1. Labour (Field Program)

Personnel
G. Clouthier - Project Geologist
D. Visagie - Senior Geologist
J. Robertson - Cook
B. Moehling - Core Splitter
B. Kinney - Core Splitter
R. Marra - Labourer
L. Malmquist - Labourer
K. Orleski - Labourer
C. Fehr - Labourer
J. Hogan - Consultant $ 61,755.24

2. Room & Board

Camp Cost	$16,378.89
Camp Supplies	$18,059.96

$ 34,438.85

3. Communications

Telephone, Radio Tel Rental $ 3,075.63

4. Equipment Rental

Trucks, field gear, surveying equipment, etc. $ 4,758.45

5. Travel Cost

Crew and equipment transportation $ 5,622.30

6. Fuel

Diesel, gasoline, etc. $ 7,738.90

7. Drill Cost

1458.4 m @ $90.93/m*
* includes additives, drill supplies, mobe/demobe costs, etc. $132,626.41

8. Assaying	
Total of all bills	$ 14,871.30
9. Heli Support	
Includes both 205 and 206 hrs total of all invoices	$ 67,065.36
10. Misc.	
Job related expenditures	$ 303.42
11. Report Preparation	
Includes writing, xeroxing, etc.	$ 5,000.00
Total	$337,255.86

14.0 STATEMENT OF QUALIFICATIONS

I, D.A. Visagie of 860 - 625 Howe Street, Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia with a Bachelor of Science Degree, majoring in Geology, in 1976.

2. I have been steadily employed in the mining industry since then and have since January 1990 been employed by Northair Mines Ltd. as Senior Geologist.

3. The work undertaken on the Hank property was under my supervision.

Dated at Vancouver, British Columbia, this 25th day of April, 1991.

D.A. Visagie

Dave Visagie

APPENDICES

Carmac Resources Ltd.

Diamond Drill Hole Record

DEPTH	BEARING	DIP	SURVEY TYPE
COLLAR	139°	-49°	Eastman
47.5	135°	-48°	Single shot
139.0	141.5°	-49°	
230.4	138.5°	-50°	
291.4	138.5°	-50°	
352.4	138.5	-50°	

PROJECT: HANK | LENGTH: 355'
CLAIM: HANK | CORE SIZE: NQ
LATITUDE: 10675.53N | RECOVERY: [illegible]
DEPARTURE: 9902.32E | STARTED: August 21, 1990
ELEVATION: 1330.17 A. | COMPLETED: Aug 24, 1990

HOLE NO.: H-90-1
SHEET NO. 1 of 10
LOGGED BY: GA Clouthier
SAMPLED BY: B. Kinney
PURPOSE: Lower Zone

Interval (meters) From	Interval (meters) To	Rock Type	Alt'n wk - intense (1-10) Geologic Description	Alteration: Clay	Sericite	Pyrophyllite	Chlorite	Mineralization: Pyrite				Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Recovery %
0	26.0		OVERBURDEN: Large blocks of andesitic volcanoclastics (landslide debris)																	
26.00	27.43		TRICONED: Into bedrock																	
27.43	45.6	ACB	CATICLASTIC BRECCIA; original rock type mixed andesitic volcanoclastics Intense clay-pyrophyllite alteration 2-5% pyrite; Matrix brick red Goethite - hematite mix. Fragments light grey - white alt'd volcanoclasts Brecciation varies from crackle type to well milled breccias. Overall hardness ~2-3; Many fragments show bleached rims with more greenish cores (Chloritic) Strong to intense post breccia shearing + fracturing 39.72 1cm white carb vein 45°CA 50.32 2cm Qtz Carb vein 35°CA Post breccia fracturing + shearing intense 45.8-52.5 ~1cm Py veins fragmented by shearing	8	8	2		3%				84601	27.4	30.4	3.1	5	0.7	13		
												84602	30.4	33.4	3.0	20	0.4	82		
												84603	33.4	36.4	3.0	5	<.2	103		
												84604	36.4	39.4	3.0	5	1.2	163		
												84605	39.4	42.4	3.0	<5	0.3	21		
												84606	42.4	45.6	3.2	<5	0.3	82		
45.6	46.5		BLACK ARGILLIC UNIT fine grained strongly sheared at 45°CA 10-12% py	3	3	2	10%					84607	45.6	46.5	0.9	<5	0.9	122		
46.5	77.2	VCB	VOLCANOCLASTIC BRECCIA: light Gray to Gray green Pervasive clay - sericite (pyrophyllite) alteration, very soft ~ Hardness 2	7	7	2	2%					84608	46.5	49.5	3.0	<5	0.7	363		
												84609	49.5	52.5	3.0	5	1.0	336		
												84610	52.5	55.5	3.0	<5	0.3	48		

Carmac Resources Ltd. **Project:** HANK **Drill Hole No.** H-93-1 **Page** 2 **of** 10

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate/Feldspar Porphyritic	Mineralization: Pyrite	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			VOLCANO CLASTIC BRECCIA unit					84611	55.5	58.5	3.0	<5	0.3	67		
			Weak pervasive carbonate also					84612	58.5	61.5	3.0	15	0.7	235		
			present throughout Later crackle													
			brecciation strong throughout													
			* Alteration process would increase													
			rock volume causing autobrecciation													
			Fragments 0.5 - 10cm subangular													
			locally rounded													
			Strongest shear direction 40° CA													
			Pyrite 2-3%													
			49.0 Shearing Trend 45° CA													
			56.0 Shearing " 40° CA													
			50.3 - 51.3 Shear zone Trend 20-30° CA													
			57.0 - 63.0 Shatter zone "Fault" Trend													
			~ 45° CA Intense clay alt'n	10	10	2										
			w. sericite + carbonate													
			60.5 4cm white carb vein 55° CA					84613	61.5	63.0	1.5	5	0.4	273		
			62.6 2cm " " " 25° CA					84614	63.0	65.3	2.3	<5	0.3	128		
			63.0 - 65.3 Feldspar porphyritic dacite					84615	65.3	68.3	3.0	<5	.5	255		
			65.3 - 68.6 Shatter zone ~ 30-50° CA													
			68.2 white carb vein 2cm 40° CA													
			68.8 - 77.2 Hematite Carbonate staining					84616	68.3	71.3	3.0	<5	<.2	19		
			pervasive pervasive alt'n	5	5	1	1%	84617	71.3	74.3	3.0	<5	<.2	78		
			~1% py patchy dissemination					84618	74.3	77.3	3.0	10	0.3	187		
			layer, size lithic fragments													
			typical chloritic breaches													
			75M → Alteration increasing down	7	7	2		4%								
			hole													

Carmac Resources Ltd. **Project:** HANK **Drill Hole No.** H-90-1 **Page** 3 **of** 10

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Pyrite	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
77.2	83.5		FINE GRAINED LIMY TUFF Patchy clay sericite alt'n. causing bleached sections Fresher rock dark gray carbonate appear primary & 2° white calcite ff Some minor white fragments up to 1cm 40% of core shattered Trend of major breaks 45° to CA very minor pyrite 79.0 - 83.5 Fault zone 50° CA	6	6	2		Tr	84619	77.3	80.3	3.0	15	0.3	164	6	
									84620	80.3	83.3	3.0	10	<.2	144		
									84621	83.3	86.3	3.0	<5	0.3	165		
									84622	86.3	89.3	3.0	<5	0.3	153		
									84623	89.3	92.3	3.0	<5	0.4	140		
83.5	100.0		ALTERED FINE GRAINED VOLCANIC Creamy white overall with purplish hematite staining Alteration is complete Sericite Clay Carbonate Pyrite occurs as blebs Fracture fillings + dissemination The whole unit has been shattered forming a healed crackle breccia late shearing trends at 45° CA. Very minor silicification in some patches which are slightly harder 92.0 - 100.0 Fault zone core shattered mostly c/y Trend 30° to CA	8	8	5	1	~1%	84624	92.3	95.3	3.0	<5	0.4	167		
									84625	95.3	97.0	1.7	<5	0.2	168		
									84626	97.0	100.0	3.0	5	0.3	21		
100.0	141.0		VOLCANOCLASTIC BRECCIA 100.0 - 125.0 Pervasive alteration weakens down hole with core changing from creamy white to dark gray - green. Orginal rock composition is andesitic weak chlorite clay alteration persists	5	2	2		<1%	84627	100.0	103.0	3.0	<5	0.7	177		

Carmac Resources Ltd. Project: HANK Drill Hole No. H-90-1 Page 4 of 10

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Pyrite	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			VOLCANOCLASTIC BRECCIA Cont.	2		2		<1%									
			Fracturing is weak to moderate with minor calcite ff. Fragments up to 15 cm common: usually angular														
105.0	131.6		Shatter zone Intense fracturing Strong clay chlorite carbonate alteration Original textures obscure; rock dark green Trend of fractures ~ 50° to CA local pyrite stringers														
			quite strong overall	5	Chl. 3	4		1%									
			Hornblendes chloritized but still visible														
			125.7 - 125.7 ~ 3% py as ff.						84628	125.1	125.7	0.6	<5	0.2	154		
			127.3 128.1 ~ 4% py as ff						84629	127.3	128.1	0.8	<5	0.2	133		
132.0	141.2		FINE GRAINED ANDESITE TUFF					1%									
			Gray green, basically unaltered chlorite white carbonate stringers related to lower greenschist regional metamorphism														
141.0	169.9		VOLCANOCLASTIC BRECCIA (ANDESITIC) unaltered fragments Sub angular up to 15 cm Minor white carbonate ff Very weak fracturing														
			141.0 - 149.0 →					<1%	84630	149.0	152.0	3.0	10	0.5	97		
			149.0 → ff discriminated + blebs			3		2%	84631	152.0	155.0	3.0	<5	<.2	61		
			pale greenish altered patches						84632	155.0	158.0	3.0	5	0.4	71		
			seems to be mostly carbonate						84633	158.0	161.0	3.0	10	0.8	71		
			Fizzes strongly in HCl.														

Carmac Resources Ltd. **Project:** FANK **Drill Hole No.** H-90-1 **Page** 5 **of** 10

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration				Mineralization				Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
							Silica	1 %	Sph	Gal	Cpy									
			VOLCANOCLASTIC BRECCIA cont.									84634				10	0.8	55		
			168.7 Irregular QV ~ 2cm with pyrite + Minor cpy + Sph									84635				10	1.0	84		
			* 1st QVing observed, with Sph + Cpy									84636	167.0	168.6	1.6	25	3.0	78		
												84637	168.6	168.9	0.3	5	1.3	70		
169.9	304.4 356.1		ALTERED VOLCANOCLASTIC BRECCIA									84638	168.9	169.9	1.0	10	0.7	61		
			Pale green → very light gray																	
			Pervasive Clay Sericite Carb Alt'n	6	6	3	2	3-5												
			Silicification weak but pervasive	↓	↓	↓	↓													
			+ in veins + stringers.																	
			Original Texture obscured by alt'n however vein treatment outlines																	
			present Chloritic sections to 185.0m																	
			* Footwall of Lower zone"																	
			171.5 Minor fault - pyritic gouge 25°CA									84639	171.9	172.9	3.0	20 20	1.2	65		
			174.8 QC vein ~ 10cm 45° CA			3	7	10				84640	172.9	174.5	1.6	30 80	2.4	79		
			176.35 - 176.55 Qv vein HW 45°CA shear									*84641	174.5	174.8	0.3	80	3.1	64		
			FW ~ 45° CA			3	7	10				84642	174.8	176.3	1.5	60	1.9	125		
			*178.35 - 179.45 QC vein 45°CA minor Sph.			3	7	10	0.3	0.1	0.3	*84643	176.3	176.7	0.4	120	3.6	40		
			Cpy + Gal epithermal banding present									84644	176.7	179.3	1.6	40	1.8	122		
			*178.9 - 179.4 "						0.3	0.1	0.3	*84645	178.3	179.1	0.8	1370*	5.6	621		
			*180.2 - 180.6 QC vein sharp contacts					1	0.3	0.3	0.1	84646	179.1	180.1	1.0	50	0.8	87		
			50°CA Minor Cpy Sph + Gal									*84647	180.1	180.8	0.7	650	3.7	109		
			180.8 - 183.0 Fault ~ 45° CA									84648	180.8	182.8	2.0	20	0.6	83		
			183.2 - 184.9 Fault zone ~ 45°CA									84649	182.8	184.7	1.9	25 500	1.7	55		
			184.8 - 185.6 QC vein complex multi -			4	6	5-7			0.1	84650	184.7	185.7	1.0	455	1.9	25		
			stage veining + refracturing 5-7% py																	
			+ cpy																	
			185.6 - 186.9 Fault zone Trend 50 - 55°					5				84651	185.7	186.9	1.2	150	2.0	58		
			CA Strong ground py																	

Carmac Resources Ltd. Project: HANK Drill Hole No. H-90-1

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Pyr %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	Assay Data: From	Assay Data: To	Assay Data: Interval				Core Data: RQD %	Core Data: Recovery %
			ALTERED VOLCANOCLASTIC BRECCIA cont	8	8	2	3	7%												
			186.0 – 355.1 Strong pervasive clay	↓	↓	↓	↓	↓												
			Sericite Alt'n Moderate pervasive																	
			Carbonate alt'n Local silicification																	
			Py ~ 7%. Local variations will																	
			be noted; pyrite occurs as																	
			selective replacements of fragments																	
			or along the rims of fragments																	
			+ as disseminations – fracture filling																	
			188.5 – 188.7 Fault 35-40° CA									84652	186.9	188.9	2.0	25	0.5	52		
			188.0 – 188.5 Traces diss gal sph + Cpy					8	Tr	Tr	Tr	84653	188.9	190.1	1.2	10	0.3	29		
			190.3 – 190.5 Fault Strong Carb Stringers									84654	190.1	193.1	3.0	165	1.6	487		
			+ Py ~45° CA																	
			192.0 10cm pale pink Carb fizzes when																	
			scratched (rhodocrosite) 25° CA																	
			192.3 15 cm Siliceous zone Tr Cpy					8			Tr									
			195.2 – 196.2 Fault ~15° CA QC stringers									84655	193.1	196.1	3.0	255	0.9	90		
			py gouge																	
			196.3 30cm QC stringers Tr 50° CA 10% py					10				84656	196.1	196.9	0.8	70	1.1	292		
			[illegible] veinlet ~1cm [illegible] CA									84657	196.9	198.[illegible]	2.0	25	1.0	82		
			[illegible] – 201.7 [illegible] 35° CA									[illegible]	[illegible]	201.[illegible]	3.0	25	0.7	46		
			[illegible]									84659	[illegible]1.9	204.[illegible]	3.0	25	0.3	44		
			[illegible] – 211.0 [illegible]					3				[illegible]	[illegible]	[illegible]	3.0	20	0.8	145		
			[illegible]									[illegible]	207.[illegible]	210.[illegible]	3.0	30	1.2	494		
			211.2 – 211.32 [illegible] 45° CA									[illegible]	210.9	[illegible]	3.0	15	0.5	46		
			[illegible]									[illegible]	[illegible]	216.9	3.0	<5	0.5	43		
			214.5 3cm [illegible]									8466[illegible]	[illegible]	219.9	3.0	15	0.5	29		
			Minor open space									84665	219.9	222.3	2.4	70	0.8	141		
			(2[illegible] – 2[illegible]) [illegible] alteration [illegible]	4	4	2	2	4												

Carmac Resources Ltd. Project: HANK Drill Hole No. H-90-1 Page 7 of 10

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration Clay	Alteration Sericite	Alteration Carbonate	Alteration Silica	Mineralization Py %	Mineralization Sph %	Mineralization Gal %	Mineralization Cpy %	Assay Data Sample No.	From	To	Interval				Core Data RQD %	Core Data Recovery %
			ALTERED VOLCANOCLASTIC BRECCIA cont	4	4	2	2	4												
			222.3 - 222.6 20% QC stringers Tr Cpy	↓	↓	↓	↓	↓				84666	222.3	222.6	0.3	1040	3.5	526		
			224.9 2cm QC vein w Trace Cpy								Tr.	84667	222.6	224.7	2.1	105	0.8	53		
			(222.6 - 239.0) weaker alteration									84668	224.7	225.1	0.4	150	1.3	56		
			Chlorite still present weak fracturing									84669	225.1	228.1	3.0	60	0.4	59		
			QC Stringers Trend 45° CA									84670	228.1	231.1	3.0	170	1.4	310		
			237.4 QC veinlet w py 2cm, 45° CA									84671	231.1	234.1	3.0	100	0.8	38		
			238.5 QC veinlet 45° CA									84688	234.1	237.1	3.0	55	0.8	71		
			239.1 - 239.5 Fault Silicified pebble gouge									84689	237.1	238.5	1.4	45	0.8	79		
			(234.0 - 274) Pyrite stronger stronger	6	6	3	3	6				84690	238.5	239.6	1.1	410	3.6	152		
			pervasive alt'n Silica locally present	↓	↓	↓	↓	↓				84691	239.6	241.6	2.0	160	1.3	91		
			as flooding and minor veins																	
			241.6 - 243.0 Strong QC veining trending 45°CA									84692	241.6	243.0	1.4	95	0.8	7		
			245.8 Drizzly QC veinlets py minor sph									84693	243.0	244.2	1.2	105	1.8	99		
			246.4 - 247.2 Fault zone 15° CA									84694	244.2	246.2	2.0	140	2.1	127		
			Drizzly QC veining									84695	246.2	248.0	1.8	180	1.8	28		
			(244 - 250.) 7% py					7												
			251.2 QC veinlet 1.5cm									84672	248.0	250.0	2.0	200	1.4	54		
			251.7 QC veinlet w coarse py									84673	250.0	251.0	1.0	170	3.8	97		
			254.3 Pinkish carb veinlet									84674	251.0	253.0	2.0	310	4.2	46		
			258.6 - 259.1 Qtz Carb vein 25°CA									84675	253.0	254.6	1.6	890	17.2	6		
			Course euhedral py cubes 0.7 cm.									84676	254.6	257.2	2.8	50	1.9	48		
			265.7 10cm Qtz Carb vein strong					7	5			84677	257.2	259.5	2.3	180	9.8	108		
			Sphal (black) + Cpy py									84678	259.5	261.5	2.0	300	6.2	497		
												84679	261.5	263.5	2.0	150	4.3	199		
												84680	263.5	265.5	2.0	60	1.4	114		
											*	84681	265.5	266.1	0.6	80	2.1	107		

Carmac Resources Ltd. **Project:** HANK **Drill Hole No.** H-90-1 **Page** 8 **of** 13

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Py%	Mineralization: Sph%	Mineralization: Gal%	Mineralization: Cpy%	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			ALTERED VOLCANOCLASTIC BRECCIA									84682	266.1	267.1	1.0	460	3.7	530		
			cont																	
			252.0 -267.0 pervasive clay sericite	6	6	2	2	5												
			alt'n 5% py																	
			267 - minor chloritic remnants									84696	267.1	269.1	2.0	~~30~~ 35	~~1.8~~ 0.5	9		
			weaker alt'n 5% py									84697	269.1	270.9	1.8	90	1.0	40		
			269.1 -270.8 QC stkwk (shatter zone)									84698	270.9	272.2	1.3	65	1.0	265		
			271.2 -271.6 Faultzone *(looks like									84633	272.2	274.2	2.0	30	1.8	262		
			malatch)									84684	274.2	276.2	2.0	60	2.5	168		
			272.5-277.4 Black metallic mineral	6	6	3	3	4				84685	276.2	277.2	1.0	70	2.0	24		
			locally disseminated Throughout									84686	277.2	278.9	1.7	110	1.9	30		
			looks like magnetite Carbonate									84687	278.9	279.9	1.0	30	1.2	113		
			Qtz veining + flooding																	
			274.9-292.7 Alt'n weaker with	4	4	1	1					84699	279.9	281.9	2.0	<5	<.2	70		
			remnant Chlorite in patches clastic									84700	281.9	283.9	2.0	10	<.2	41		
			Texture quite obvious									84701	283.9	285.9	2.0	<5	<.2	91		
			281.9 Fault sil ser alt'n 2 3cm 70°CA									84702	285.9	287.9	2.0	<5	<.2	211		
			286.9 - 287.3 Fault 30° CA clay									84703	287.9	289.9	2.0	30	.3	80		
			carb. gouge									84704	289.9	291.9	2.0	15	.7	122		
			288.3 1cm QC vein 45° CA									[illegible]	[illegible]	[illegible]	[illegible]	45	.9	40		
			288.7 3cm Carb vein [illegible] 45°CA									*84706	292.6	293.5	0.9	195	20.3	1096		
			291.0-291.2 QC veining 50°CA																	
			292.0-292.2 QC stkwk Trend 50° CA, py	6	6	3	3	4	Tr		1%									
			292.6-293.5 Qtz Carb stringers + minor																	
			stkwk Strong pervasive alt'n																	
			293.5-301.5 weaker pervasive alt'n	4	4	2	1	3				84707	293.5	296.5	3.0	40	<.2	100		
			greenish Chloritic patches still									84708	296.5	299.5	3.0	<5	<.2	70		
			present									84709	299.5	301.5	2.0	<5	<.2	29		

Carmac Resources Ltd. **Project:** HANK **Drill Hole No.** H-90-1 **Page** 9 **of** 12

Interval (meters) From	To	Rock Type	Geologic Description	Alteration: Clay	Sericite	Carbonate	Silica	Mineralization: Py %	Sph %	Gal %	Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Recovery %
			297.3 Gypsum common as																	
			Thin fracture fillings																	
301.5	304.4		MAFIC LAPILLI TUFF dark green																	
			30% hbe partly chloritized < 1% py	3		Chl 4	Gyps. 1	<1%				84710	301.5	304.5	3.0	45	<.2	66		
												84711	304.5	307.5	3.0	65	"	8		
304.4			ALT'D VOLCANOCLASTIC BRECCIA	5	6	2	2	3%				84712	307.5	310.5	3.0	50	"	30		
			Pervasive Clay Sericite alt'n weaker									84713	310.5	313.3	2.8	80	"	67		
			pervasive carb local silicification									84714	313.3	315.4	2.1	160	"	744		
			3[illegible]5.[illegible] Qz vein 1cm 45°CA									84715	315.4	317.4	2.0	40	"	46		
			313.3 - 315.2 Qtz Carb veining 20%	8	6	4	4					84716	317.4	319.2	1.8	35	"	11		
			of core Local shearing 45°CA									*84717	319.2	320.4	1.2	65	"	33		
			Py 4% ~½% Sph.					4%	.5%											
			315-319.2 Mod fracturing Gypsum																	
			common as ff shearing trends																	
			50° CA																	
			319.2-320.4 - Shear zone																	
			319.7 ~6mm veinlet py + Sph 30°CA					4	1											
			319.9 QC vein 45° CA 6cm																	
			py + sph																	
			(320.4 - 339.0) Mod pervasive Clay					4				84718	320.4	323.4	3.0	85	"	199		
			Ser. Alt'n w/ Patches common									84719	323.4	326.4	3.0	10	"	57		
			carb pale greenish gray appear																	
			common ff 4% py																	
			327.3[illegible] - 327.7 Fault 30°CA Fragments					4	<1%			[illegible]	326.4	327.7	1.3	45	"	113		
			py + sphalerite near fw.									84721	327.7	330.7	3.0	35	"	127		
			328.8 Fault 50°CA ~ 5cm									84722	330.7	333.7	3.6	10	"	33		
			332.5 - 332.8 Fault 60° CA clay Chl gouge									84723	333.7	336.7	3.0	25	"	16		
			337.3-338.3 Fault zone HW 35° FW45°																	
			(339.0 - 350.0) See 320.4-339.0					5												

Carmac Resources Ltd. Project: HANK Drill Hole No. H-93-1 Page 10 of 10

Interval (meters) From	To	Rock Type	Geologic Description	Alteration: Clay	Sericite	Carb	Silica	Mineralization: Py %	Sph %	Gal %	Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Recovery %
			ALT'D VOLCANOCLASTIC BRECCIA Cont																	
			Pervasive clay Sericite alteration																	
			Chlorite still present local																	
			[illegible] alt'n + [illegible] gypsum common																	
			as [illegible] moderate to strong fracturing																	
			334.0 - 348.0 Strong shearing (Fault	5	5	3	2	5				84724	336.7	334.7	3.0	55	<.2	178	274	
			Zone Trend 50° CA									84725	339.7	342.7	3.0	5	<.2	73	54	
			355.0 Shear 40° CA									84726	342.7	345.7	3.0	20	.3	6T	178	
												84727	345.7	348.7	3.0	20	.2	73		
												84728	348.7	351.7	3.0	10	<.2	61		
												84729	351.7	353.7	2.0	10	<.2	9		
												84730	353.7	355.1	1.4	30	.3	43		
355.1			END OF HOLE																	

Carmac Resources Ltd.

Diamond Drill Hole Record

DEPTH	BEARING	DIP	SURVEY TYPE
COLLAR	122°	-49°	Tunnel
1374	118.5	-49°	Eastman SS
487	116.5	-51°	"
332	115.5	-51.5°	"
1187	115.5	-51.5°	"

PROJECT: Hank | LENGTH: 367.9 | HOLE NO.: H-90-2
CLAIM: Hank 2 | CORE SIZE: NQ | SHEET NO.: 1 of 7
LATITUDE: 10,373.28N | RECOVERY: 99-100 | LOGGED BY: GA Clauther
DEPARTURE: 9,922.02E | STARTED: Aug 24, 1990 | SAMPLED BY: Kinney + Fehr
ELEVATION: 1030.17 M. ASL | COMPLETED: Aug 27, 1990 | PURPOSE: Lower Zone

Interval (meters) From	To	Rock Type	Geologic Description	Alteration: Clay	Sericite	Carb	Silica	Mineralization: Py %	Sph %	Gal %	Cpy %
			0-27.1 O.B.								
27.1	116.0		VOLCANOCLASTIC BRECCIA. Originally andesitic. Sub-angular fragments up to 10 cm. Strong r-- fracturing as noted below. Chlorite - clay alteration with surface weathering effects for 30 meters. Matrix brick red due to Fe-oxide in minor hematite (pink is coarse grained + euhedral QV. ~ 3-4%	6	3	3		3.5			
			27.1 - 30.1 Fault 60° CA								
			33.1 Irreg QV 35° CA 4cm								
			34.4 - 35.1 Carb stringers 55° CA								
			35.1 - 35.3 Fault 55° CA								
			41.4 16cm QV ~ 35° CA								
			48.2 Irreg QV sub // foliation								
			38.0 - 50.2 No oxidation <1% py	4	2	2	2	<1.0			
			50.0 - 50.0 Very strong Clay altn Red brown Fe-ox staining Strong fracturing 2-3% py	7		2		2.5			
			50.2 - 51.2 Fault 45° CA	9				2.5			
			54.1 QC vein 30° CA irreg ~ 2.5 cm								
			55.2 - 63.3 Fault Trend 50° CA intense clay altn	9				2.5			
			65.2 Patchy clay altn in plagioclase Porph andesitic rock <1% py Carb ff	4	2	2	1	<1.0			

Assay Data: Sample No.	From	To	Interval	Au ppb	Ag ppm	Cu	Core Data: RQD %	Recovery %
84730	27.1	30.1	3.0	30	0.3	43		
84731	30.1	33.1	3.0	5	0.2	13		
84732	33.1	36.1	3.0	15	0.6	26		
84733	36.1	39.1	3.0	15	0.4	117		
84734	39.1	42.1	3.0	30	1.1	153		
84735	42.1	45.1	3.0	90	1.5	400		
84736	45.1	48.1	3.0	10	1.3	549		
84737	49.1	51.1	3.0	55	2.9	572		
84738	51.1	54.1	3.0	20	0.3	85		
84739	54.1	57.1	3.0	30	0.3	48		
84740	57.1	60.1	3.0	45	0.3	30		
84741	60.1	63.1	3.0	10	0.5	59		
84742	63.1	65.2	2.1	10	0.4	441		

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Carmac Resources Ltd. **Project:** H ANK **Drill Hole No.** H-90-2 **Page** 2 **of** 7

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carb	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	Assay Data: From	Assay Data: To	Assay Data: Interval				Core Data: RQD %	Core Data: Recovery %
			71.6 - 71.9 Fault clay gouge 35°CA	7	2	2	1	<1												
			74.2 - 74.7 " " " 45°CA	7	2	2	1	<1												
			75.4 - 75.6 " " " 45°CA	7	2	2	1	<1												
			75.6 - 83.0 Minor Faults Trend 45°CA																	
			81.3 Carb vein ~1cm 25°CA																	
			82.0 -) Core varies from																	
			dark gray green to maroon																	
			due to Fe Oxide content [illegible]																	
			Textures still Typical of volcaniclastic	3		2		[illegible]												
			[illegible] clay carbonate alteration																	
			in fractured sections, mostly [illegible]																	
			[illegible] Trend carb																	
			stringers ~ 35 - 40° CA																	
			104.8 [illegible] white carb [illegible]																	
			106.2 Qz vein [illegible] 25°CA																	
			107.6 - 116.0 Section [illegible]	4	Chl 4	2		1												
			clay carb chl [illegible] green																	
			[illegible] ~1% [illegible]									84743	111.0	114.0	3.0	5	<.2	151		
			diss py									84744	114.0	116.0	2.0	10	<.2	146		
116.0	117.0		BROWNISH BLACK MAFIC DIKE																	
			Dense [illegible] aphanitic [illegible] no																	
			Sulfides [illegible]																	
117.0			VOLCANICLASTIC BRECCIA Strong	6	4	2	2	3				84745	117.0	120.0	3.0	10	<.2	50		
			2° brecciation and Fracturing									84746	120.0	123.0	3.0	20	1.0	110		
			Patchy but [illegible] clay carb																	
			117.0 - 12? Large Shear zone Trend																	
			40-50° CA																	
			Strong py as [illegible]																	
			Minor Siliceous patches + ff																	

Carmac Resources Ltd. **Project:** HANK **Drill Hole No.** 4-90-2 **Page** 3 **of** 7

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Chl.	Alteration: Sericite	Alteration: Carb.	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			VOLCANOCLASTIC BRECCIA cont	8	4	1	2	3				84747	123.0	124.5	1.5	230	0.6	72		
			121.5-126.7 Gauge is nearly black due to graphite or carbonaceous material									84748	124.5	126.7	2.2	15	0.5	85		
												84749	126.7	129.7	3.0	<5	0.6	36		
126.7	132.3		FINE GRAINED ANDESITE Probably a DIKE relatively unfractured Dusted with fine pyrite disseminations + some 2% Plag phenocrysts ~ 3mm	2		2		3												
132.3	135.3		FAULT ZONE 60% Gauge Trend ~ 90°CA Broken pebbles ~2% pyrite Carb veins + qtz-carb veins in gauge ~ 45° to core axis 134.3-134.5 ~2% carb py vein 35° CA	4	5	3	2	5				84750	129.7	132.7	3.0	5	0.5	158		
												84751	132.7	135.7	3.0	5	1.0	87		
135.3	152.0		VOLCANOCLASTIC BRECCIA Patchy pale green clay carbonate sections with dark green chloritic patches QC stringers common but minor Trending 30-40° CA Fragments up to 10cm subrounded to angular 2-3% Py	5	2	5	2	2.5				84752	135.7	138.7	3.0	5	1.0	101		
												84753	138.7	141.7	3.0	15	3.4	90		
			141.0-144.5 Very wk altn <1% py	2		1	1	<1												
			144.5 2cm Carb Qtz vein cg py 55° CA																	
			149.5 Very weakly carbonatized section Minor Qtz Carb stringers, Fragments subangular up to 15cm	2		2														
			152.5 1cm QC vein w py																	
			153.2 2cm QC vein w py									84754	152.3	153.3	1.0	5	0.3	53		

Carmac Resources Ltd. Project: HANK Drill Hole No. H-90-2 Page 4 of 7

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carb	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
152.0	175.0		FINE GRAINED ANDESITE TUFF	1-2		2		<1												
			Grey green basically unaltered except where noted, Minor disseminated py																	
			Minor Qtz carb stringers with 1%																	
			157.5 QC stringer to minor py 60°CA																	
			157.5 - 158.5 Buff coloured carbonatized section	2		4		1%												
			167.1 - 172.1 Buff coloured carbonatized section									84755	169.3	169.1	0.8	5	<.2	41		
			163.5 - 163.6 Qtz carb stringer zone ~25° CA some dark grey chalcedonic qtz 1% py Tr Sph			4	1	1	Tr			84756	169.1	172.1	3.0	5	0.9	187		
			169.1 - 172.1 Patchy Blue grey chalcedonic qtz ~1% py wall rock is bedded locally at ~ 35° CA																	
175.0	367.9		VOLCANICLASTIC ISOPACH Dark grey green unaltered except where noted ~1% 1% Large Subangular fragments up to 15cm, composition andesitic			1	1	1												
			174.2 - 180.4 QC stockwork 4% py			1	4	4				84757	174.2	180.4	1.2	30	1.7	112		
			180.4 - 196.0 unaltered weakly pyritized rock, minor carbonatized patches					<1												
			196.0 - 196.6 QC shatter zone 6% py			3	4	6				84758	196.0	196.6	0.6	25	2.4	51		
			204.0 - 204.3 Carbonatized Fault zone																	
			211.5 - 212.4 5% py str. QC veining Silicified for 0.2 M above HW of Fault									84759	211.5	212.4	0.9	118	4.7	36		
			212.4 - 213.2 FAULT Very Strong!!									84760	212.7	213.2	0.8	175	6.7	230		

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Carmac Resources Ltd. **Project:** Hank **Drill Hole No.** H-90-2 **Page** 5 **of** 7

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			45° CA gauge very dark due to ground sulfide (pyrite																	
213.2			This fault is the contact with the LOWER ALTERATION ZONE The wall rock appears to be the same however the core is very pale green to white due to pervasive clay carbonate sericite alt'N Pyrite content ranges from 4-6% 1-2 Carbonate veinlets and stringers are more common Local zones of siliceous flooding will be noted	1	6	4	3	5											
			213.1 - 214.4 Silicified zone strong secondary Brecciation 5% pyrite Minor sphalerite throughout.	3	7	5	5	5	Tr			*84761	213.1	214.4	1.8	190	2.5	22		
												*84762	214.4	215.4	1.5	355	0.5	4		
												84763	216.4	219.4	3.0	195	1.7	44		
												84764	219.4	222.4	3.0	70	4.2	11		
			224.0 224.4 FAULT Siliceous Gouge 80° CA					3				84765	222.4	224.0	1.6	155	0.8	17		
			224.4 - 226.7 Silicified zone									84766	224.0	225.7	1.7	295	3.6	195		
			225.7 - 226.7 8% py minor cpy main shearing 35-40° CA					8			<0.3	*84767	225.7	226.7	1.0	890	3.6	195		
												84768	226.7	228.7	2.0	220	2.2	106		
			228.7 - 232.8 Chloritic section weaker pervasive alt'N	3	1	3	1	3				84769	228.7	230.7	2.0	140	3.4	97		
												84770	230.7	232.7	2.0	55	1.4	10		
			233.2 Minor FAULT 40° CA									84771	232.7	234.6	1.9	95	2.0	53		
			234.6 - 238.5 Silicified zone Strongly fract. Minor galena + sphalerite throughout Strongly sheared	3	7	5	5	5	<0.4	<0.4	<0.1	*84772	234.6	236.6	2.0	195	7.2	55		
												*84773	236.6	238.5	2.0	180	6.7	13		
												84774	238.5	240.5	2.0	125	2.8	474		

Carmac Resources Ltd. **Project:** Hank **Drill Hole No.** H-99-2 **Page** 6 **of** 7

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			249.7 - 262.3 Silicified zone, Minor gal + Sph + cpy with 6% py throughout Strong galena + sphal in shear zone 246.2 - 249.2 45° A 2° [illegible]	3	7	5	5	6				84775	242.5	242.5	2.0	80	1.8	28		
												84776	242.5	244.7	2.2	10	0.6	26		
								6	.5	.5	Tr	84777	244.7	246.2	1.5	145	10.1	101		
								[illegible]	5	.5	.1	84778	246.2	246.9	0.7	355	8.3	115		
								[illegible]	Tr	Tr	Tr	84779	246.9	248.8	1.9	60	1.0	49		
								[illegible]	Tr	Tr		84780	248.8	250.8	2.0	95	1.4	69		
								[illegible]	Tr	[illegible]	Tr	84781	[illegible]	[illegible]	2.0	105	1.0	57		
								[illegible]	Tr	Tr		[illegible]	[illegible]	[illegible]	[illegible]	15	<.2	48		
									Tr	Tr		[illegible]	[illegible]	[illegible]	[illegible]	30	0.3	86		
								[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	254.0	[illegible]	55	0.7	200		
								[illegible]	[illegible]	[illegible]	Tr	[illegible]	[illegible]	[illegible]	1.4	275	5.3	154		
								[illegible]	Tr	Tr		[illegible]	[illegible]	[illegible]	-	150	0.6	75		
				[illegible]	-	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	55	0.7	56		
												[illegible]	263.3	268.3	[illegible]	55	1.0	77		
												[illegible]	268.3	[illegible]	3.0	20	<.2	85		
								4	Tr	Tr		[illegible]	[illegible]	[illegible]	[illegible]	20	<.2	24		
												[illegible]	[illegible]	[illegible]	[illegible]	205	2.3	234		
												[illegible]	[illegible]	[illegible]	[illegible]	15	<.2	20		
			278.9 - 283.1 [illegible]	3	6	[illegible]	[illegible]	4				[illegible]	[illegible]	[illegible]	[illegible]	20	1.0	18		
			[illegible]									[illegible]	[illegible]	[illegible]	1.8	75	1.2	55		
			283.9 - 288.7 [illegible]									[illegible]	[illegible]	[illegible]	[illegible]	25	1.0	51		
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	275	1.1	23		
			[illegible]									[illegible]	[illegible]	[illegible]	3.0	15	1.3	106		
			[illegible]									[illegible]	289.7	292.7	3.0	10	<.2	12		
			[illegible]									[illegible]	292.7	295.7	3.0	15	<.2	94		

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Carmac Resources Ltd. Project: Hank Drill Hole No. [illegible] Page 7 of 7

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration				Mineralization				Assay Data Sample No.	From	To	Interval				Core Data RQD %	Recovery %
			295.? – 3?3.5 [illegible]	4		[illegible]		3				[illegible]	[illegible]	2?5.7	2.?	290	0.6	48		
			[illegible]									33451	[illegible]	[illegible]	[illegible]	10	<.2	13		
			[illegible]	4		[illegible]	6	[illegible]				33452	[illegible]	[illegible]	.5	15	0.6	61		
			[illegible] ore 45% [illegible]									33453	[illegible]	301.4	2.2	205	0.5	70		
			[illegible]									33454	[illegible]	303.1	[illegible]	5	0.3	10		
			303.1 – [illegible]									33455	303.1	[illegible]	[illegible]	10	<.2	132		
			Breccia [illegible]	5	chl 5		[illegible]	[illegible]				[illegible]	[illegible]	[illegible]	3.0	10	1.2	89		
			[illegible] 3-4% py									[illegible]	309.8	[illegible]	.7	110	2.8	64		
			[illegible]									[illegible]	[illegible]	310.5	0.5	980	1.4	48		
			[illegible]									[illegible]	[illegible]	313.5	3.0	260	1.2	138		
			310.1 – 310.? [illegible] 45° CA [illegible] py					2				[illegible]	[illegible]	316.5	3.0	115	0.8	47		
			Tr [illegible]																	
			[illegible] – 32?.? [illegible] py 45° CA					[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	0.4	72		
			32?.? – 33?.? [illegible]	1	1	4	2	[illegible]				[illegible]	[illegible]	[illegible]	[illegible]	15	0.9	169		
			[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	65	1.5	230		
			– [illegible]									33464	[illegible]	329.7	2.?	355	2.4	66		
			[illegible]									[illegible]	32?.7	[illegible]	[illegible]	575	2.2	51		
			– Trend [illegible]									[illegible]	33?.7	332.?	[illegible]	495	4.8	126		
			33?.? – 33?.? Fault 4?° CA [illegible]									[illegible]	333.1	[illegible]	[illegible]	40	0.5	80		
			+ [illegible]									[illegible]	[illegible]	[illegible]	[illegible]	10	1.1	66		
			[illegible]	[illegible]	2		1	3				[illegible]	[illegible]	[illegible]	3.0	25	0.9	20		
			[illegible]									[illegible]	[illegible]	[illegible]	[illegible]	35	1.4	102		
			Localized [illegible] 3% py									[illegible]	[illegible]	[illegible]	3.?	<5	0.4	135		
			352 – 3?? [illegible]					.5												
			[illegible]																	
[illegible]			END OF HOLE																	

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Carmac Resources Ltd.

Diamond Drill Hole Record

	DEPTH	BEARING	DIP	SURVEY TYPE
COLLAR	135°	45°	Transit
500 ft	134.5°	48°	Eastman SS
1315 ft	129.5	51.	"

PROJECT: HANK
CLAIM: HANK 2
LATITUDE: 10721.52 N
DEPARTURE: 10058.12 E
ELEVATION: 1072.34 m

LENGTH: 402.9
CORE SIZE: NQ 2
RECOVERY: ~98-100%
STARTED: Aug 29, 1990
COMPLETED: Aug. 31, 1990

HOLE NO.: H-90-3
SHEET NO. 1 of 8
LOGGED BY: GA Clouthier
SAMPLED BY: Kinney + Fehr
PURPOSE: Lower Zone

Interval (meters) From	To	Rock Type	Geologic Description	Alteration: Clay	Sericite	Carb	Silica	Mineralization: Py %	Sph %	Gal %	Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Recovery %
0	15.2		OVERBURDEN																	
15.2	37.5		FELDSPAR PORPHYRITIC LAPILLI TUFF. Andesitic. 50% ash like Plagioclase phenocrysts in a dark gray matrix Subangular vol. fragments up to 2cm.																	
			Minor clay carb alt'n locally less than 1% py diss + on slips	3		2		<1												
			33.9-34.1 Fault clay gouge 45° CA	↓		↓		↓												
			28.7-29.3 3% py									83472	28.7	29.3	0.6	<5	0.3	64		
			26.7-27.2 FAULT clay gouge																	
			35.7 FAULT 3cm gouge 35°CA																	
37.5	46.3		Rock type as above patchy clay carb alt'n 2-3% py	4	1	3		2.5												
				↓	↓	↓		↓				83473	37.5	40.5	3.0	<5	0.8	68		
			39.4-39.6 FAULT 50°CA gouge black (Ground Sulfides									83474	40.5	43.5	3.0	5	<.2	60		
												83475	43.5	46.5	3.0	<5	0.6	65		
			45.5 1cm carb vein 35°CA																	
46.3	53.3		Rock type as above weak alt'n Py 1%	3		2		1%												
53.3	~57.0		Creamy white clay carb alteration Patchy chloritic areas overall Fracturing more intense	5	1	5		1												
57.0	403.4		VOLCANOCLASTIC BRECCIA - Subangular	3	3	5	2	1.5				83476	60.3	62.3	2.0	90	2.7	70		
			fragments up to 10cm									83477	62.3	63.6	1.3	140	1.5	80		
			62.3-63.6 QC stringer zone 50°CA					1.5	Tr			83478	63.6	65.6	2.0	<5	1.6	165		
			35% veining ~1.5% py Min Sph.																	

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Pyrite %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			VOLCANOCLASTIC BRECCIA cont	2		2														
			69.9 - 71.6 Cataclastic Breccia auto brecciation due to mass expansion in main altéd zone?									83479	68.9	71.9	3.0	10	2.2	96		
												83480	71.9	74.9	3.0	<5	0.8	159		
												83481	74.9	77.9	3.0	<5	1.3	162		
			70.3 FAULT 4cm gouge 60°CA									83482	77.9	80.4	2.5	<5	0.8	147		
			71.6 - 71.9 Gouge FAULT 65°CA																	
			71.9 - 74.4 Buff gray clay carbonate alt'd rock	3	1	3	1	1%												
			74.4 - 80.4 Cataclastic Bx See 68.9-71.6	3	2	3	1	1.5												
			80.4- Pervasive buff coloured clay carb sericite alt'n																	
			80.5 Minor diss sph																	
80.4			FOOTWALL OF LOWER ALT'N	6	6	5	3	3												
			ZONE - Core is largely a cataclastite with brecciation during mineralization and strong post mineral shearing + fracturing																	
			82.8 white Carb vein 3cm 90°CA									83483	80.4	82.4	2.0	<5	0.4	160		
			83.9 - 86.7 Brecciated Qtz Carb stringer zone Strong Py + silica flooding	4	6	4	4	4				83484	82.4	83.9	1.5	5	1.0	95		
												83485	83.9	86.7	2.8	30	2.6	72		
			86.7 - 86.9 Fault gouge 60°CA?									83486	86.7	89.7	2.0	30	1.1	93		
			86.9 - 89.7 Buff carbonatized rock 2C stringers		5	5	2	2												
			89.9 - 91.0 Strong fracturing 5-6% py same sphalerite					5.5	Tr.			83487	89.7	91.0	1.3	<5	2.3	112		
			91.0 - 93.0 Mottled light gray to dark green core carbonatized 2% py Minor Hydrocarbon patches	4	2	4	1	2.				83488	91.0	93.0	2.0	5	1.2	78		

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Sericite	Carbonate	Silica	Mineralization: Py %	Sph %	Gal %	Cpy %
			93.0-99.0 Mottled light gray to dark green core pervasive clay carb sericite altn. Strong QC veining 5-6% py Strongest fracturing + veining 45°CA.	4	4	4	2	5.5			
			99.0-102.8 Gtz Carb zone 15% QVs patch silicification Tr. 45°CA	3	6	4	6	6			
			101.5-102.5 FAULT Siliceous gouge ~45°CA								
			102.5-109.0 FAULT zone Clay-sericite gouge 15% of core QC veins commonly smashed up + displaced					6			
			109.0-115.0 Strongly sheared clay ser carb alt'd volcanic	4	6	4	2	3.5			
			115.0-122.8 Moderately sheared clay carb-ser alt'd	2	6	4	1	3.5			
			117.5-117.8 Fault 50° CA								
			122.8-123.8 QC vein zone 3-4% py 2% sph ~50°CA					3.5	+2.0		
			123.8-136.0 clay sericite, carb alt'd rock	2	6	4	2	3.5			
			125.1-125.3 2" vein 70°CA								
			129.7-153.2 FAULT 35°CA 50% gouge QC + sericite								
			Note: 131.0-134.0 Volcanoclastic Texture very obvious								
			140.2-142.1 3 1-2cm veins Strong Sph Gal + Cpy Trend 35°CA					*3.5	1	.5	.5
			142.2 Tr Sph w Qtz								
			135.0 — Strong Silica flooding med veining	3	5	4	5				

Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Recovery %
83489	93.0	95.0	2.0	295	1.9	86		
83490	95.0	97.0	2.0	140	2.9	165		
83491	97.0	99.0	2.0	265	1.6	193		
83492	99.0	101.0	2.0	915	3.5	96		
83493	101.0	102.8	1.8	185	3.9	159		
83494	102.8	104.8	2.0	30	2.1	162		
83495	104.8	107.8	3.0	35	0.5	147		
83496	107.8	110.8	3.0	450	6.2	160		
83497	110.8	113.8	3.0	385	1.2	95		
83498	113.8	116.8	3.0	100	0.9	72		
83499	116.8	119.8	3.0	375	2.8	93		
83500	119.8	122.8	3.0	195	1.5	112		
*83501	122.8	123.8	1.0	1080	9.7	74		
83502	123.8	125.9	2.0	600	4.8	101		
83503	125.9	128.9	3.0	115	6.5	75		
83504	128.8	131.8	3.0	215	3.6	70		
83505	131.8	1348	3.0	80	1.2	97		
83506	134.8	137.8	3.0	40	0.4	50		
83507	137.8	139.3	1.5	35	0.8	100		
83508	139.3	140.8	1.5	85	1.6	113		
83509	**140.8	142.1	1.8	265	17.8	23		
83510	142.1	144.1	2.0	105	4.1	19		
83511	144.1	145.7	1.6	265	8.9	85		

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carb	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			VOLCANOCLASTIC BRECCIA cont.					4	1		1	83512	*145.7	146.2	0.5	1510	17.9	571		
			145.8 - 146.2 QC vein 40° CA ~ 2cm									83513	146.2	148.2	2.0	15	0.8	6		
			Strong Sph + Cpy in middle of vein									83514	148.2	151.2	3.0	55	1.2	83		
												83515	151.2	154.2	3.0	15	0.4	7		
			154.2 Strong shearing down hole									83516	154.2	157.2	3.0	365	1.6	30		
			from this point Strong clay alt'n	7	5	2	2	4												
			Sericite Content ?																	
			155.1 - 155.7 Brecciated white QC vein																	
			minor Py																	
			159.3 ~ 2cm gouge w/ Py + Sph									83517	157.2	159.4	2.2	165	1.9	42		
			163.7 - 164.4 Gouge sub // to C.A.									83518	159.4	162.4	3.0	255	2.1	130		
			164.4 - 166.8 Gouge with crushed									83519	162.4	164.4	2.0	115	1.4	27		
			Pyrite + QC fragments									83520	164.4	166.8	2.4	500	5.7	176		
			166.8 - 169.0 Shattered Core 20° to Axis					4	1			83521	*166.8	169.0	2.2	415	4.9	130		
			Main shearing at 10° + 45° CA									83522	169.0	172.0	3.0	420	1.8	84		
			QC vein fragments with Sph + Py									83523	172.0	179.0	2.0	155	1.6	100		
			common									83524	174.0	176.0	2.0	300	1.1	64		
			177.0 - 180.0 Cataclastite 50% Gouge	7	7	3	3	5				83525	176.0	178.0	2.0	355	1.5	111		
			Trend ? 45° Shattered Sections of									83526	178.0	180.0	2.0	645	1.5	31		
			Silica Carb veining (very good recovery									83527	180.0	182.0	2.0	120	0.4	37		
			considering)									83528	182.0	184.0	2.0	10	<.2	54		
			170.2 Sph in 2cm gouge zone					5	Tr			83529	184.0	186.0	2.0	10	0.3	51		
			170.7 - 171.0 QC vein Strong Sph Minor Cpy					5	1			83530	186.0	188.0	2.0	65	0.5	29		
			174.3 Crushed sph + Gal over 10cm									83531	188.0	190.0	2.0	190	1.0	21		
			175.6 QC vein 75° CA Sph + Cpy in gouge																	
			177.8 QC vein Banded Sph Cpy in Sel.																	
			180.0 - 182.5 Cataclastite 40% Gouge																	
			181.5 Sph + Gal over 10cm																	
			182.5 - 196.1 Mod Fractured rock																	

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carb	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	Assay Data: From	Assay Data: To	Assay Data: Interval				Core Data: RQD %	Core Data: Recovery %
			186.1 - 194.5 Cataclastite 40° gouge	6	6	3	2	3.5				83532	190.0	192.0	2.0	105	2.5	6		
			less siliceous fragments than									83533	192.0	194.0	2.0	210	8.1	9		
			above									83534	194.0	195.4	1.4	20	0.3	23		
			190.5 - 190.7 QC vein carb pinkish 70°CA									83535	195.4	196.9	1.5	65	0.7	247		
			191.9 4cm QC vein									83536	196.9	198.9	2.0	15	<.2	31		
			194.5 - 199.6 moderately fractured									83537	198.9	200.9	2.0	15	0.4	37		
			195.4 - 196.9 Dissem Gal + Sph associated					3.5	0.2	0.1		83538	200.9	202.9	2.0	240	0.7	46		
			with siliceous zones									83539	202.9	204.9	2.0	135	0.3	86		
			199.6 - 200.1 Siliceous gouge 50°CA									83540	204.9	206.9	2.0	15	0.4	43		
			200.2 White carb vein shattered									83541	206.9	208.9	2.0	10	0.6	31		
			200.6 - 211.6 Cataclastite 60% gouge	6	6	3	3	4	Tr			83542	208.9	210.9	2.0	5	<.2	12		
			clay sericite, siliceous patches									83543	210.9	211.6	0.7	10	0.6	115		
			Minor sph frags in gouge									83544	211.6	214.6	3.0	10	0.3	64		
			shear Trend 50°CA. fw 45°CA									83545	214.6	217.6	3.0	15	0.3	87		
			211.6 - 224.5 Core still shattered with																	
			~ 15% gouge clay sericite carb altn																	
			pervasive some local silica flooding																	
			Py 4%									83546	[illegible]	[illegible]	3.0	25	0.5	16		
			(224.5 - 228.2) weak Fracturing Pervasive									83547	[illegible]	223.6	3.0	140	1.1	24		
			QC ser [illegible]									83548	223.6	226.6	3.0	10	<.2	7		
			[illegible] FAULT 20-40° CA ?					5				83549	[illegible]	228.2	1.6	10	0.5	13		
			[illegible] Fault 25°CA									83550	228.2	231.2	3.0	10	0.2	45		
			233.0 - 233.2 Fault Si frag 45°CA									83551	231.2	234.2	3.0	10	0.2	127		
			235.5 - 235.7 Fault Si frag 40°CA									83552	234.2	237.2	3.0	15	<.2	38		
			237.1 - 239.2 Fault QC vein frags 35°CA	4	6	3	1	4				83553	237.2	240.2	3.0	15	0.6	64		
			(228.2 - 243.5) weak fracturing pervasive									83554	240.2	243.2	3.0	35	0.5	18		
			Clay Ser Carb wk Silicification									83555	243.2	243.7	0.5	230	1.4	44		
			243.3 - 245.5 QC vein 45°CA minor									83556	243.7	246.7	3.0	5	0.2	40		
			Sph + Py									83557	243.7	249.5	1.8	5	<.2	7		

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Project: Fank

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carb	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	Assay Data: From	Assay Data: To	Assay Data: Interval				Core Data: RQD %	Core Data: Recovery %
			248.5 - 257.5 Fault Pyritic Clay-ser	1	7	2	4	9				33558	248.5	251.5	3.0	10	0.4	44		
			Gouge with rounded Si-Frags 45° CA ?									33559	251.5	254.5	3.0	15	1.1	52		
			10% py									33560	254.5	257.5	3.0	5	0.4	22		
			257.5-2??.? Scattered minor Faults 30°									33561	257.5	260.5	3.0	10	0.5	13		
			gouge																	
			2??.?-273.3 Moderately Fractured section	4	7	2	4	5.5				33562	260.5	263.5	3.0	35	1.3	26		
			5-?% py Clay-sericite altn pervasive									33563	263.5	266.5	3.0	10	<.2	148		
			patchy silica flooding Clastic texture									33564	266.5	269.5	3.0	15	<.2	100		
			visible ... flows selectively replaced									33565	269.5	272.5	3.0	5	<.2	22		
			... main fracture trend ~?°CA																	
			273.3 - 279.6 Fault zone 20° Gouge									33566	272.5	275.5	3.0	10	0.6	7		
			Broken QC veins common Trend 35-45°CA	4	7	2	3	3				33567	275.5	278.5	3.0	10	1.1	5		
			279.6 - 299.3 Relatively weakly fractured									33568	278.5	281.5	3.0	5	1.1	15		
			Zone very strong py ~ 5%					8				33569	281.5	284.5	3.0	5	1.3	4		
			2??.? - 2??.5 Fault zone ... gouge					7				33570	284.5	287.5	3.0	10	1.3	8		
			... is shattered ... 55°CA									33571	287.5	290.5	3.0	15	1.2	10		
			Trend on minor veins + slips 50°CA									33572	290.5	292.1	1.6	10	1.3	2		
			2??.5 2cm Carb Qtz vein minor ...					7	Tr	Tr		33573	292.1	292.6	0.5	60	<.2	13		
			2??.? - 3??.? ...	4	7	2	3	7				33574	292.6	295.6	3.0	10	0.6	61		
			... minor QC veins									33575	295.6	298.6	3.0	90	0.8	70		
			296.2 - 297.? ~20cm QC vein subl to core						Tr			33576	298.6	301.6	3.0	10	0.3	10		
			minor sph									33577	301.6	304.6	3.0	15	<.2	132		
			3??.? - 31?.? weak to moderate fracturing	3	7	2	3	7				33578	304.6	307.6	3.0	10	1.0	3		
			311.3 Fault 4cm Gouge 50° CA									33579	307.6	310.6	3.0	10	2.1	52		
			313.9 Cpy blebs over 3cm core								Tr	33580	310.6	313.6	3.0	50	4.8	128		
			314.3 - 320.6 FAULT 80° Gouge ~35°CA					7				33581	313.6	314.1	0.5	90	2.0	109		
			31? 1cm fragment cpy								Tr	33582	314.1	315.8	1.7	155	3.5	100		
			317.3 fragments sph						Tr			33583	* 315.8	317.5	1.7	305	2.1	190		
												33584	317.5	319.5	2.0	190	1.0	87		

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Sericite	Carbon	Silica	Mineralization: Py %	Sph %	Gal %	Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Recovery %
			320.6-342.4 wk-mod fractured alt'd									83585	319.5	322.5	3.0	125	0.8	8		
			Volcanoclastic Breccia, minor qtz	3	7	2	5	5				83586	322.5	325.5	3.0	105	0.9	23		
			Carb veining Tr 25° CA Silica flooding	↓	↓	↓	↓					83587	325.5	328.5	3.0	135	0.3	12		
			329.3-329.5 Fault 35° CA QC veining									83588	328.5	331.5	3.0	155	1.6	75		
			331.3 QC vein [illegible] CA Tr py									83589	331.5	334.5	3.0	165	1.8	139		
			332.4 QC vein [illegible]cm 35° CA Gal + Sph					5	Tr	Tr										
			342.5 Druzy Calcite vein									83590	334.5	337.5	3.0	105	0.6	77		
			342.4-370.0 Strong fracturing	3	7	2	5	6				83591	337.5	340.5	3.0	285	0.8	22		
			342.7-342.9 Gouge Fault 50° CA									83592	340.5	343.5	3.0	230	0.7	89		
			350.6-351.2 Gouge FW 25° CA HW 50° CA									83593	343.5	346.5	3.0	150	0.9	100		
			353.0-356.0 Fault 60% gouge Tr 50° CA									83594	346.5	349.5	3.0	210	1.0	20		
			353.2 Hairline Sph Tr						Tr			83595	349.5	352.5	3.0	155	0.5	27		
			356.4-357.2 Fault 40% gouge Tr 60° CA									83596	352.5	355.5	3.0	205	1.5	35		
			357.2-370.0 Strong Silicification as veins	3	7	2	7	8				83597	355.5	358.5	3.0	10	0.7	13		
			+ Flooding									83598	358.5	361.5	3.0	55	1.2	19		
			359.[illegible]-359.1 Gouge 75° CA FAULT									83599	361.5	364.5	3.0	50	1.7	35		
			359.1 Minor Sph									83600	364.5	367.5	3.0	10	1.0	74		
			[illegible] Gouge [illegible]cm FAULT 45° CA																	
			361.3 Gouge 3cm FAULT 45° CA																	
			361.9 Gouge 2cm FAULT 50° CA																	
			363.9-365.3 Shear Zone 20% gouge																	
			45° CA																	
			367.5-3[illegible].1 FAULT 30% Gouge FW 45° CA					8				83601	367.5	370.5	3.0	10	1.5	181		
			374.5-376.5 Fault Strong QC veining									83602	370.5	373.5	3.0	80	1.5	143		
			60% Gouge Tr 50° CA									83603	373.5	376.5	3.0	30	0.8	37		
			379-383.[illegible] FAULT Siliceous fragment									83604	376.5	379.5	3.0	35	1.5	8		
			387.7-387.9 Fault Clay gouge 60° CA									83605	379.5	382.5	3.0	15	0.8	3		
			388.0 QC vein Frag 3% py									83607	382.5	385.5	3.0	30	1.4	34		
												83608	385.5	388.5	3.0	70	2.9	84		

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Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Chlorite	Alteration: Silica	Mineralization: Py	Mineralization: Sph %	Mineralization: Galena %	Mineralization: Apy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			387.9 - 403.9 Moderately fractured									83609	388.5	391.5	3.0	120	2.4	237		
			Mod - Strong silica flooding. Some	3	7	3	6	7.5				93610	391.5	394.5	3.0	10	0.2	8		
			concordant Qtz 7-8% py									93611	394.5	397.5	3.0	15	0.2	7		
			Fault 399.5 - 400.5 ~ 45° CA									93612	397.5	403.5	3.0	25	0.8	103		
												93613	400.5	403.4	2.9	5	0.5	158		
403.4			END OF HOLE																	

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Diamond Drill Hole Record

DEPTH	BEARING	DIP	SURVEY TYPE				
COLLAR	292°	45°	Transit	PROJECT: HANK	LENGTH: 152.4 M	HOLE NO.: H-90-4	
				CLAIM: HANK 2	CORE SIZE: NQ 2	SHEET NO. 1 of 3	
				LATITUDE: 10271.83	RECOVERY:	LOGGED BY: G A Clouthier	
				DEPARTURE: 10949.33	STARTED: Sept 3 1990	SAMPLED BY: Kinney + Fehr	
				ELEVATION: 1415.3 M	COMPLETED: Sept 3 1990	PURPOSE: Upper zone	

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carb	Alteration: Silica	Mineralization: Py %	Mineralization: Spl %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
0	7.3		OVERBURDEN	7	4			2				33614	7.3	10.3	3.0	50	0.4	10		
7.3	31.0		WEATHERED AND CLAY									83615	10.3	13.3	3.0	5	0.3	7		
			ALTERED ANDESITE TUFF									83616	13.3	16.3	3.0	45	0.4	9		
			light greenish gray + fine									83617	16.3	19.3	3.0	5	0.2	6		
			grained FeOx on fractures																	
			Core is shattered and																	
			crumbling No significant veining																	
			Local Textures suggest VOLCANO-																	
			CLASTIC BRECCIA units																	
			7.3-20.0 25% gouge																	
			20.0-31.0 Pervasive Clay alt'n	7	3			1				83618	19.3	22.3	3.0	5	<.2	11		
			very minor py <1%									83619	22.3	25.3	3.0	5	<.2	26		
			10% Fault gouge Tr 45°CA									83620	25.3	28.3	3.0	10	0.2	18		
			31.0-43.2 FAULT Strong Clay Gouge	7	3			1.5				83621	28.3	31.3	3.0	5	0.3	16		
			34.5-41.2 Broken Carbonate Qtz									83622	31.3	34.3	3.0	850	4.3	14		
			vein scattered by Fault 1-2%									83623	34.3	37.3	3.0	765	3.3	8		
			py veins are zoned with epithermal									83624	37.3	39.3	2.0	1160	3.6	14		
			textures									83625	39.3	41.3	2.0	340	1.5	8		
			43.2-54.6 Shatter Zone Strong									83626	41.3	44.3	3.0	55	0.6	13		
			argillic Alt'n 20% Fault gouge									83627	44.3	47.3	3.0	70	1.2	14		
			Minor QC veinlets Dominant fracture									83628	47.3	50.3	3.0	90	0.8	27		
			direction 70-80° CA 1-2% py overall									83629	50.3	53.3	3.0	70	1.0	23		
			54.6-56.8 Sheared Clay alt'd																	
			Section Py ~ 3%	6				3												
			56.8-56.9 QC vein NVS																	
			56.9-65.5 Clay Chl Alt'n <1% py																	

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Carmac Resources Ltd. **Project:** Hank **Drill Hole No.** H-90-4 **Page** 2 **of** 3

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Py %	Mineralization: Cpy %	Mineralization: Sph %	Mineralization: Gal %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
3.0	121.3		VOLCANOCLASTIC BRECCIA	7		2	2					83630	53.3	54.3	3.0	740	3.4	14		
			sandstone fragments sub angular									83631	54.3	57.3	1.5	450	1.7	19		
			to sub rounded up to 25 cm																	
				4	Str 3			1												
			66.5 - 71.6 < 50% recovery) Strong	6	3	2	2	1				83632	66.5	71.6	4.1	135	0.8	20		
			Sheer Fault @ 70-80°CA									83633	71.6	74.6	3.0	5	0.2	18		
			71.6 - 74.6 Moderate fracturing minor					<1				83634	74.6	77.1	2.5	10	0.5	19		
			silicification <1% Py																	
			74.6 - 77.1 Strong Shearing 70-80°CA	1	Chl 3	1	1	1												
			77.1 - 92.6 String Shearing 2-4% gouge	5	3	1	1	<1												
			+ nearly 2 metres of core washed																	
			fault Trend 60-80° CA																	
			92.6 - 93.0 QC stringers 70° CA Tr 1%					2				83635	92.6	95.3	3.0	130	0.9	16		
			93.6 QC veinlet 2 cm 70°CA									83636	95.3	98.2	2.9	10	0.4	19		
			94.6 - 95.0 Graphitic fault Gouge					1				83637	98.2	101.2	3.0	10	0.6	19		
			60°CA																	
			95.3 - 98.2 weakly fractured	3	Chl 2	1	1	<1												
			98.2 - 101.2 FAULT 80°CA minor QC																	
			vein fragments																	
												83638	101.2	103.2	2.0	5	0.5	17		
			105.2 - 111.2 Silicification sericite	3	Ser 5	2	3	3.5				83639	103.2	105.2	2.0	155	0.8	21		
			+ Py much Stronger String Shearing					1				83640	105.2	108.2	3.0	80	1.3	15		
			106.7 QC vein 6cm 45°CA					V				83641	108.2	111.2	3.0	225	2.0	20		
			108.9 - 109.9 Gouge ~ 90°CA									83642	111.2	114.2	3.0	180	2.9	20		
			110.9 - 112.4 Pebbles Gouge washed									83643	114.2	117.2	3.0	390	3.3	18		
			111.2 - 117.4 Strong Shearing 15% gouge									83644	117.2	120.2	3.0	200	3.7	19		
			3% Carb Qtz veinlets Trend 60-70°CA									83645	120.2	121.2	1.0	190	2.8	20		
			117.4 - 121.3 FAULT HW? FW sharp 45°																	
			Carb Qtz vein frags common																	

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Carmac Resources Ltd. **Project:** HANK **Drill Hole No.** H-93-4

Interval (meters) From	To	Rock Type	Geologic Description	Alteration: Clay	Sericite	Carbonate	Silica	Mineralization: Py %	Cpy %	Ga %	Sp %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Recovery %
121.3	152.4		ANDESITE PORPHYRY Plagioclase	3	2	2	2	1												
			+ alt'd Hornblende phenocrysts in	↓	↓	↓	↓	↓												
			dark green matrix Locally light																	
			green to grey where [illegible] No																	
			pervasive alt'n <1% py except where[illegible]																	
			122.9-123.0 Strong py veining					20				33646	121.2	123.2	2.0	75	0.9	39		
			125.8 QC veining over 6cm					3				33647	123.2	126.2	3.0	40	0.5	42		
			126-131.4 Limonite on open									33648	126.2	128.2	2.0	10	<.2	38		
			fractures									33649	128.2	130.2	2.0	30	0.2	43		
			130.3-131.2 FAULT 45°CA [illegible]									33650	130.2	131.2	1.0	390	1.3	15		
			in HW pyrite [illegible] 30% py					20				33652	131.2	134.0	2.8	60	1.2	42		
			131.6 QC stringers 50°CA 3% py																	
			132.0-134.0 weak py [illegible]																	
			[illegible] <5% py					.5												
			134.0-152.4 irregular QC stringers									33653	134.0	137.0	3.0	5	0.5	26		
			common fracture [illegible]									33654	137.0	140.0	3.0	10	0.2	5		
			in [illegible]									33655	140.0	143.0	3.0	20	0.8	6		
			136.5-139.5 Fault Chloritic gouge 55°CA																	
			140.7-140.9 Fault " " 50°CA									33656	143.0	146.0	3.0	265	2.1	9		
			143.0-143.5 Fault [illegible]									33657	146.0	149.0	3.0	25	0.5	7		
			[illegible] 30°CA									33658	149.0	152.4	3.4	45	0.2	9		
			144.9-145.2 QC in fault zone 75°CA																	
152.4			END OF HOLE																	

Carmac Resources Ltd.

Diamond Drill Hole Record

DEPTH	BEARING	DIP	SURVEY TYPE
COLLAR	310°	-45	Transit
15.2 m 50 ft	304.5	-45	Eastman SS
~~76.2 m 250 ft~~	304.5	-46	"
152.4 500 ft	303.5	-43	"

PROJECT: HANK
CLAIM: HANK 2
LATITUDE: 10 272.85
DEPARTURE: 10949.67
ELEVATION: 1464.96

LENGTH: 180.14 M
CORE SIZE: NQ 2
RECOVERY:
STARTED: Sept. 4, 1990
COMPLETED: Sept 5, 1990

HOLE NO.: H-90-5
SHEET NO. 1 of 3
LOGGED BY: G.A. Clowther
SAMPLED BY: Kinney + Fehr
PURPOSE: Upper Zone

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Chl	Alteration: Sericite	Alteration: Quartz/Opal	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Cpy %	Mineralization: Apy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
?	7.3		OVERBURDEN																	
7.3	~~123.6~~		VOLCANOCLASTIC BRECCIA																	
			andesitic subangular to subrounded									83659	7.3	10.3	3.0	5	0.3	11		
			fragments in a matrix of									83660	10.3	13.3	3.0	5	0.2	15		
			similar material									93661	13.3	16.3	3.0	65	0.3	19		
7.3	26.5		Surface weathering and alteration									83662	16.3	19.3	3.0	55	0.3	22		
			has resulted in extreme clay alt'n	7	3	1	1	2												
			Some fractures are rusty. Core is									83663	19.3	22.3	3.0	5	<0.2	12		
			strongly fractured									93664	22.3	25.3	3.0	5	<0.2	18		
			27.6-35.5 FAULT 25% gouge 2-3°/cm 70°CA	7	3	4	4	25				83665	25.3	28.3	3.0	5	0.2	20		
			27.7-28.7 QC vein 2% py shattered									93666	28.3	31.3	3.0	460	6.4	28		
			29.7-29.8 QC vein contacts broken																	
			31.8-32.1 QC vein " "									83667	31.3	34.3	3.0	240	3.4	14		
			32.7-37.2 QC vein " "									93668	34.3	37.3	3.0	75	2.8	22		
			39.2-39.9 FAULT 55°CA									93669	37.3	40.3	3.0	160	3.6	20		
			42.9-53.3 FAULT (Major) 50°CA	6	6	2	2					83670	40.31	43.3	3.0	70	1.9	17		
			45° gouge 3-4°/cm remnant																	
			QC vein frag veinlets common									83671	43.3	46.3	3.0	25	0.7	16		
			53.3-73.2 Strong clay servicite alt'n	6	6	2	3	1.5				93672	46.3	49.3	3.0	40	0.3	18		
			moderate silicification 1-2% py									93673	49.3	52.3	3.0	320	3.0	20		
			62.7-63.6 Fault 20 frags in gouge 20°CA									93674	52.3	55.3	3.0	200	0.5	18		
			minor ground sulfides in									83675	55.3	58.3	3.0	310	0.7	20		
			gouge									93676	58.3	61.3	3.0	1490	1.5	27		
												93677	61.3	63.6	2.3	140	<0.2	24		
			Note: Pyrite only sulfide observed									83678	63.6	64.5	0.9	1990	3.7	22		
			WK = Moderate fracturing									83679	64.5	67.5	3.0	60	0.2	22		

Carmac Resources Ltd. **Project:** HANK **Drill Hole No.** H-90-5 **Page** 2 **of** 3

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Sericite	Alteration: Carbonate	Alteration: Silica	Mineralization: Py %	Mineralization: Sph %	Mineralization: Gal %	Mineralization: Cpy %	Assay Data: Sample No.	From	To	Interval				Core Data: RQD %	Core Data: Recovery %
			73.2 - 75.6 FAULT 50% gouge Qtz Sericite alt'n very strong ~70° CA 2-3% py	6	6	2	4	2.5				83680	67.5	70.5	3.0	10	0.2	24		
												83681	70.5	73.5	3.0	40	1.3 ~~0.2~~	15		
												83682	73.5	76.5	3.0	85	~~1.7~~ 0.8	16		
			75.6 - 73.2 Sericite quartz alt'n strong py 2-3%	4	6	2	5	2.5												
			73.2 - 32.1 FAULT 45° gouge, 1 metre Carb Qtz vein fragments in Hanging wall Trend 45° CA									83683	72.5	79.5	3.0	140	1.9 ~~2.3~~	19		
												83684	79.5	82.5	3.0	1090	1.3	25		
								2.5				83685	82.5	85.5	3.0	510	1.2	24		
			82.1 - 88.9 Mylonite Fracturing					1				83686	85.5	88.5	3.0	840	2.4	41		
			88.9 - 88.0 FAULT 40% gouge Trend 70° CA					1.5												
			88.2 - 112.1 FAULT Zone 25% Gouge 2-3% py Qtz Carb flags 15% Trend 30° CA Note: Core has been strongly altered Throughout. Faulting is intense Core is shot and usually crushed. Pyrite is the only sulfide observed white carbonate quartz veins usually in shears are only weakly mineralized with pyrite	4	6	2	5	2.0				83687	88.5	91.5	3.0	625	1.8	36		
												83688	91.5	94.5	3.0	700	2.8	22		
												83689	94.5	97.5	3.0	555	2.0	43		
												83690	97.5	100.5	3.0	450	2.2	70		
												83691	100.5	103.5	3.0	195	1.1	39		
												83692	103.5	106.5	3.0	970	1.6	46		
												83693	106.5	109.5	3.0	1440	1.2	50		
												83694	109.5	112.5	3.0	395	3.1	39		
			112.1 - 121.3 Shatter zone 5-10% gouge 3-4% py (Stronger than Above min shear trend 40-53° CA	4	6	3	5	3.5				83695	112.5	115.5	3.0	200	4.4	29		
												83696	115.5	118.5	3.0	315	3.7	26		
												83697	118.5	121.5	3.0	260	3.5	51		
			121.3 - 123.6 FAULT 70° CA																	
			121.3 - 122.5 Gouge 60° CA 3-4% py					3.5												
			122.5 - 123.6 Intensely pyritic Mylonite					20				83698	*121.5	123.6	2.1	295	5.5	43		
			Note: Similar to that note in Hole H-90-4					40				83699	123.6	126.6	3.0	5	~~2.5~~ 2.3	43		
												83700	126.6	129.6	3.0	5	2.2	41		

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Carmac Resources Ltd. **Project:** Hank **Drill Hole No.** H-90-5 **Page** 3 **of** 3

Interval (meters) From	Interval (meters) To	Rock Type	Geologic Description	Alteration: Clay	Alteration: Tourmaline	Alteration: Carbonate	Alteration: Silica	Mineralization: Py %	Mineralization: Sphal %	Mineralization: Gal %	Mineralization: Cpy	Assay Data: Sample No.	Assay Data: From	Assay Data: To	Assay Data: Interval	Assay Data:	Assay Data:	Assay Data:	Core Data: RQD %	Core Data: Recovery %
123.6			PORPHYRITIC ANDESITE TUFF	2	1	1	1	1-5				28351	129.6	132.6	3.0	15	<.2	33		
			Plagioclase + Hornblende phenocrysts									28352	132.6	135.6	3.0	5	<.2	8		
			matrix varies from dark green																	
			to brick red. <1% pyrite except																	
			where noted. No Pervasive alt'n																	
			129.9 - 133.0 Shear zone 70° to CA																	
			very strong																	
			133.0 - 139.5 Intermittent Shear					1				29353	135.6	139.6	3.0	210	.6	7		
			zones																	
			138.5 - 180.14 weakly fractured - minor																	
			carbonate f.f. <1% pyrite - No																	
			alteration																	
180.14			END OF HOLE																	

MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

APPENDIX 2 - ASSAY RESULTS

Assay Certificate

OS-0389-RA1

Company: CARMAC RESOURCES LTD.
Project: HANK
Attn: F.HEWITT

Date: AUG-31-90
Copy 1. CARMAC RESOURCES LTD., VANCOUVER, B.C.
2. CARMAC RESOURCES LTD., C/O MIN-EN LABS

We hereby certify the following Assay of 25 ROCK samples submitted AUG-29-90 by F.HEWITT.

Sample Number	AU g/tonne	AU oz/ton	AG g/tonne	AG oz/ton
84640	.02	.001	2.4	.07
84641	.08	.002	3.1	.09
84642	.06	.002	1.9	.06
84643	.12	.004	3.6	.11
84644	.04	.001	1.8	.05
84645	1.37	.040	5.6	.16
84646	.05	.001	0.8	.02
84647	.65	.019	3.7	.11
84648	.02	.001	0.6	.02
'672	.20	.006	1.4	.04
84673	.17	.005	3.8	.11
84674	.31	.009	4.2	.12
84675	.89	.026	17.2	.50
84676	.05	.001	1.9	.06
84677	.18	.005	9.8	.29
84678	.30	.009	6.2	.18
84679	.15	.004	4.3	.13
84680	.06	.002	1.4	.04
84681	.08	.002	2.1	.06
84682	.46	.013	3.7	.11
84683	.03	.001	1.8	.05
84684	.06	.002	2.5	.07
84685	.07	.002	2.0	.06
84686	.11	.003	1.9	.06
84687	.03	.001	1.2	.04

Certified by _____

MIN-EN LABORATORIES

COMP: CARMAC RESOURCES LTD.
PROJ: HANK
ATTN: F.HEWITT

MIN-EN LABS - ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0389-RJ1
DATE: 90/08/31
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
84640	2.0	16580	89	10	143	.1	1	15660	.1	37	79	69580	4970	12	7690	873	1	1180	1	1080	23	3	23	1	1	86.0	61	1	1	1	1
84641	2.7	8990	230	8	83	.1	1	20770	.1	35	64	77610	3190	5	5010	830	1	650	1	750	16	18	15	1	1	64.3	116	1	1	1	1
84642	1.5	13730	57	9	142	.1	2	13300	.1	23	125	44890	4800	9	6780	698	1	1170	1	1180	16	4	29	1	1	75.0	94	1	1	1	5
84643	3.1	7620	411	10	76	.1	1	12140	2.2	37	40	89870	3650	1	2050	320	1	830	1	840	23	38	21	1	1	36.0	63	1	1	1	1
84644	2.0	14290	67	10	166	.2	1	17390	.1	25	122	56100	4040	9	10020	857	1	1060	1	1100	24	5	32	1	1	96.0	88	1	1	1	1
84645	5.6	7350	189	9	112	.1	1	11760	10.9	24	621	57130	3820	2	4000	489	1	1520	1	1180	696	7	16	1	1	38.0	2469	1	1	1	8
84646	1.2	10660	93	11	133	.1	1	23950	.1	23	87	48040	4630	5	7940	1123	1	680	1	1470	38	2	25	1	1	67.3	89	1	3	2	21
84647	2.1	4910	78	5	646	.1	2	91180	8.8	12	109	18240	2590	1	2080	2549	2	600	5	600	291	5	1	1	1	23.6	839	1	1	2	48
84648	1.4	10830	55	9	94	.1	2	35920	.1	24	83	52670	3350	11	11010	1646	1	990	1	1010	18	1	27	1	1	82.7	66	1	2	1	5
84672	1.5	5550	83	6	129	.1	1	17030	1.9	17	54	51830	3050	1	2220	411	1	380	1	1130	157	1	15	1	1	19.4	317	1	1	1	12
84673	3.5	6480	148	7	87	.1	1	32550	32.0	22	97	53840	3070	3	10410	1686	1	560	1	1130	905	4	39	1	1	26.2	3218	1	3	1	1
84674	4.4	5140	92	6	133	.1	2	36280	25.9	17	46	45390	2600	1	8630	1822	1	330	1	800	1009	5	57	1	1	23.1	2512	1	3	1	12
84675	19.2	5540	62	7	115	.1	2	36200	.1	23	6	62110	2640	1	8850	1376	1	380	1	910	135	1	54	1	1	28.4	217	1	1	1	1
84676	2.2	7600	58	7	176	.1	1	33010	7.3	22	48	47890	3480	2	16840	1460	1	400	1	1110	197	1	82	1	1	51.0	876	1	3	1	1
84677	10.4	5780	72	7	104	.1	2	32600	14.7	24	108	61090	2730	1	13970	1369	1	360	1	910	464	3	65	1	1	39.6	1505	1	2	1	4
84678	7.2	7840	54	7	119	.1	2	29630	.1	26	497	50880	3860	1	9110	1035	1	390	1	980	47	4	68	1	1	28.3	36	1	1	1	8
84679	4.8	9050	105	7	150	.1	1	32760	2.4	19	199	45150	3870	3	12180	1224	3	390	1	1070	193	2	180	1	1	42.7	359	1	3	2	23
84680	1.5	7770	50	6	96	.1	2	27830	2.4	22	114	49660	3040	8	15380	828	1	400	1	1030	268	1	92	1	1	54.3	512	1	2	1	3
84681	2.7	6710	47	9	176	.1	3	38360	218.4	19	107	43960	2930	1	25920	1830	3	340	1	980	309	5	1018	1	4	34.0	21424	1	6	1	19
84682	4.5	7790	35	7	104	.1	1	28360	.2	27	530	56980	3420	3	15360	923	1	390	1	1060	80	1	76	1	1	34.8	169	1	3	1	8
84683	1.6	9050	80	7	97	.1	2	34290	1.2	28	262	53180	3660	5	13280	907	1	390	1	1110	140	1	138	1	1	40.2	283	1	3	1	11
84684	2.9	8700	72	8	136	.1	2	31400	73.3	18	168	46130	3700	1	16800	1138	4	370	1	1220	833	4	235	1	1	29.4	6710	1	4	1	7
84685	2.0	9430	99	8	134	.1	2	25830	45.2	20	24	57660	4130	1	7870	787	1	320	1	1100	189	2	192	1	1	35.7	4065	1	4	1	35
84686	2.7	6710	111	5	155	.1	3	31960	23.2	16	30	38450	2980	1	15910	1369	3	250	1	790	104	6	261	1	1	28.6	1819	1	4	2	53
84687	2.1	8170	97	7	100	.1	2	31960	.1	27	113	60600	3370	5	14970	943	1	290	1	990	22	1	191	1	1	57.2	70	1	1	1	25

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETK 90-525

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

SEPTEMBER 12, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: HANK SHIPMENT: 90 -3
31 CORE SAMPLES RECEIVED SEPTEMBER 4, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
525 - 1	84601	5	.7	.85	<5	2	71	<5	1.58	<1	22	4	13	6.06	.28	11	.48	934	<1	.09	10	1709	11	<5	<20	112	<.01	<10	30	<10	13	47
525 - 2	84602	20	.4	.76	20	5	48	<5	1.43	<1	24	3	82	5.73	.30	<10	.42	738	2	.10	11	1226	7	<5	<20	103	<.01	<10	23	<10	9	50
525 - 3	84603	5	<.2	.62	28	3	39	5	1.83	<1	24	6	103	6.56	.31	12	.44	789	<1	.10	11	2176	8	<5	<20	108	<.01	<10	26	<10	9	63
525 - 4	84604	5	1.2	.62	46	<2	33	<5	2.13	<1	29	8	163	5.97	.30	<10	.26	805	1	.09	20	2137	22	7	<20	103	<.01	<10	17	<10	7	87
525 - 5	84605	<5	.3	.59	17	<2	40	<5	2.63	<1	19	10	21	6.72	.28	13	.46	1152	<1	.08	11	2407	15	<5	<20	98	<.01	<10	24	<10	5	62
525 - 6	84626	5	.7	.70	<5	<2	90	<5	3.34	<1	14	11	177	3.59	.32	13	.61	856	2	.05	12	2106	5	<5	<20	155	<.01	<10	37	<10	6	35
525 - 7	84627	<5	.5	.55	7	<2	99	<5	3.91	<1	22	11	100	5.16	.23	15	.80	1260	2	.01	22	1454	8	<5	<20	142	<.01	<10	27	<10	2	56
525 - 8	84628	<5	<.2	1.26	<5	<2	65	<5	5.35	<1	12	8	154	3.87	.27	17	.54	895	<1	<.01	11	2514	6	<5	<20	198	<.01	<10	18	<10	6	37
525 - 9	84629	<5	<.2	1.19	<5	<2	54	<5	5.34	<1	13	7	133	4.37	.27	16	.51	921	<1	<.01	9	2357	5	<5	<20	188	<.01	<10	21	<10	5	34
525 - 10	84630	10	.5	3.30	<5	<2	172	<5	3.41	1	38	8	97	9.26	.21	15	1.30	1542	<1	.02	8	1057	<2	<5	<20	66	<.01	<10	102	<10	4	64
525 - 11	84631	<5	<.2	2.99	<5	<2	89	<5	5.53	<1	23	10	61	6.76	.24	14	1.23	1830	<1	<.01	5	1009	<2	<5	<20	73	<.01	<10	91	<10	8	52
525 - 12	84632	5	.4	3.24	<5	<2	84	<5	3.26	<1	24	8	71	7.55	.23	13	1.19	1381	<1	.02	6	1091	<2	<5	<20	44	<.01	<10	94	<10	5	51
525 - 13	84633	10	.8	2.82	<5	<2	70	<5	3.45	<1	31	10	71	7.63	.24	13	1.21	1509	3	<.01	8	1038	<2	<5	<20	50	<.01	<10	82	<10	6	59
525 - 14	84634	10	.8	2.21	<5	<2	71	<5	4.84	<1	22	14	55	5.92	.25	12	.98	1358	<1	<.01	5	975	4	<5	<20	56	<.01	<10	67	<10	7	41
525 - 15	84635	10	1.0	2.63	<5	<2	81	<5	4.37	<1	25	14	84	6.95	.26	13	1.03	1495	<1	<.01	6	1117	3	<5	<20	57	<.01	<10	80	<10	7	55
525 - 16	84636	25	3.0	2.23	10	<2	49	<5	2.87	1	35	19	78	9.91	.21	13	.89	1107	2	<.01	10	1199	8	9	<20	31	<.01	<10	73	<10	2	46
525 - 17	84637	5	1.3	1.43	7	<2	46	<5	2.64	32	29	17	70	5.06	.23	<10	.63	1071	4	<.01	5	905	4	8	<20	31	<.01	<10	52	14	6	3728
525 - 18	84638	10	.7	1.73	8	<2	71	<5	2.43	<1	22	13	61	5.65	.20	<10	.79	1218	<1	.04	5	1006	<2	<5	<20	51	<.01	<10	73	<10	6	57
525 - 19	84639	20	1.2	1.29	25	3	48	<5	1.42	<1	34	9	65	5.39	.22	<10	.66	719	<1	.11	8	1047	6	<5	<20	54	<.01	<10	59	<10	7	62
525 - 20	84649	25	1.7	.42	34	<2	44	<5	2.71	<1	29	27	55	5.84	.18	<10	.75	1077	2	.01	7	967	9	6	<20	65	<.01	<10	59	<10	4	49
525 - 21	84650	455	1.9	.21	96	4	21	<5	1.34	1	21	74	25	5.30	.08	<10	.43	429	4	<.01	6	461	21	6	<20	35	<.01	<10	14	<10	<1	67
525 - 22	84651	150	2.0	.37	78	<2	32	<5	2.35	4	22	20	58	6.02	.15	<10	1.04	873	1	.02	3	863	163	<5	<20	117	<.01	10	41	<10	4	360
525 - 23	84652	25	.5	.35	23	<2	27	<5	3.78	3	22	22	52	5.75	.13	<10	1.44	1371	<1	<.01	4	966	152	<5	<20	223	<.01	<10	51	<10	7	279
525 - 24	84653	10	.3	.36	14	<2	22	<5	5.24	<1	14	11	29	4.60	.12	<10	1.17	1311	<1	<.01	2	859	23	<5	<20	192	<.01	<10	50	<10	8	59
525 - 25	84654	165	1.6	.33	163	<2	15	<5	2.23	1	24	16	487	7.32	.08	16	.93	679	<1	<.01	5	984	86	5	<20	124	<.01	10	30	<10	<1	116
525 - 26	84655	255	.9	.43	94	<2	32	7	2.80	<1	29	23	90	7.74	.11	<10	1.30	955	<1	.01	5	981	25	<5	<20	149	<.01	<10	44	<10	3	54

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETK 90-525

PAGE 2

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
525 - 27	84656	70	1.1	.56	77	<2	27	<5	3.88	<1	28	34	292	9.05	.12	11	1.80	1505	2	<.01	3	840	16	<5	<20	153	<.01	<10	64	<10	5	52
525 - 28	84657	25	1.0	.79	44	<2	30	<5	3.07	2	23	16	82	7.08	.09	<10	2.06	1660	<1	.03	4	1053	94	<5	<20	203	<.01	<10	92	<10	8	193
525 - 29	84658	25	.7	.55	58	<2	34	<5	3.46	<1	24	20	46	6.66	.10	<10	1.60	1480	<1	.02	2	838	53	<5	<20	145	<.01	<10	65	<10	5	128
525 - 30	84659	25	.3	.94	10	<2	35	<5	4.80	<1	24	23	44	6.68	.15	10	1.84	2105	2	<.01	3	1066	16	<5	<20	103	<.01	<10	78	<10	9	68
525 - 31	83651	145	2.3	.38	25	<2	25	6	3.48	23	22	23	157	4.14	.18	<10	.61	1128	3	<.01	9	1565	647	7	<20	33	<.01	<10	25	<10	8	2577

NOTE: < = LESS THAN

FAX:F. HEWITT 689-5041
cc: DAVID VISAGIE C/O NORTHAIR GROUP

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

SC90/CARMAC

ECO-TECH LABORATORIES LTD.

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

SEPTEMBER 13, 1990

CARMAC RESOURCES - ETK 90-535

C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: HANK
44 CORE SAMPLES RECEIVED SEPTEMBER 7, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
535 - 1	84706	195	20.3	.23	78	<2	14	<5	3.21	36	33	24	1096	4.14	.11	<10	.67	977	2	<.01	8	791	2520	20	<20	114	<.01	<10	14	<10	5	4098
535 - 2	84707	40	<.2	.35	38	<2	21	<5	4.56	<1	29	15	100	5.60	.15	13	1.54	1228	<1	<.01	6	1167	18	<5	<20	85	<.01	<10	59	<10	6	63
535 - 3	84708	<5	<.2	.33	8	<2	33	<5	5.66	<1	26	9	70	5.24	.15	13	1.69	827	<1	<.01	5	1073	9	<5	<20	293	<.01	13	68	<10	6	39
535 - 4	84709	<5	<.2	.31	9	<2	24	<5	5.08	<1	20	10	29	4.95	.11	<10	1.81	792	<1	<.01	5	860	4	<5	<20	416	<.01	<10	68	<10	4	35
535 - 5	84710	45	<.2	1.78	<5	<2	41	<5	4.76	<1	23	10	66	4.91	.10	11	2.07	986	<1	<.01	4	906	4	<5	<20	248	<.01	<10	82	<10	5	38
535 - 6	84711	65	<.2	.56	16	<2	9	<5	4.03	<1	21	11	8	3.13	.13	<10	1.16	687	1	<.01	3	939	5	<5	<20	270	<.01	<10	24	<10	7	18
535 - 7	84712	50	<.2	.71	28	<2	10	<5	4.20	<1	19	9	30	4.40	.11	<10	1.11	594	<1	<.01	6	1009	14	<5	<20	190	<.01	<10	48	<10	5	20
535 - 8	84713	80	<.2	.64	41	<2	15	<5	5.09	<1	27	22	67	5.18	.15	14	1.07	841	<1	<.01	7	1157	32	<5	<20	178	<.01	96	40	<10	8	48
535 - 9	84714	160	<.2	.28	104	<2	19	<5	6.64	19	22	12	744	5.22	.10	14	2.56	1618	<1	<.01	7	961	248	6	<20	202	<.01	57	37	<10	10	2129
535 - 10	84715	40	<.2	.82	21	<2	18	<5	5.00	<1	23	16	46	5.46	.16	13	1.29	1001	<1	.03	7	1145	12	<5	<20	284	<.01	<10	47	<10	7	56
535 - 11	84716	35	<.2	1.82	9	<2	27	<5	4.42	<1	15	23	11	5.67	.17	11	1.76	1016	<1	.05	7	1106	10	<5	<20	131	<.01	<10	61	<10	8	56
535 - 12	84717	65	<.2	.70	19	<2	6	<5	4.60	3	17	26	33	5.30	.13	11	.93	1176	<1	<.01	6	860	72	<5	<20	324	<.01	<10	25	<10	4	429
535 - 13	84718	85	<.2	.70	28	<2	17	<5	5.80	<1	22	11	199	4.73	.10	11	.65	933	<1	<.01	8	852	19	<5	<20	211	<.01	<10	23	<10	6	35
535 - 14	84719	10	<.2	1.46	<5	<2	14	<5	5.71	<1	25	26	57	5.10	.07	11	1.56	1110	<1	<.01	13	705	13	<5	<20	291	<.01	<10	74	<10	3	54
535 - 15	84720	45	<.2	1.85	9	<2	23	<5	5.21	12	32	29	113	5.07	.09	<10	1.61	1141	1	<.01	14	755	177	<5	<20	255	<.01	<10	60	<10	6	1245
535 - 16	84721	35	<.2	2.06	19	<2	25	<5	5.35	<1	27	29	127	4.79	.09	11	2.13	1444	<1	<.01	13	757	47	<5	<20	193	<.01	<10	84	<10	5	128
535 - 17	84722	10	<.2	1.71	12	<2	11	<5	5.52	<1	29	18	33	4.99	.09	11	1.55	1110	<1	.04	12	854	54	<5	<20	309	<.01	<10	59	<10	5	81
535 - 18	84723	25	<.2	1.40	<5	<2	16	<5	4.57	<1	23	25	16	4.36	.07	<10	1.78	913	<1	<.01	11	801	19	<5	<20	189	<.01	<10	82	<10	5	45
535 - 19	84724	55	<.2	1.55	20	<2	18	<5	4.07	<1	29	29	274	5.91	.12	11	1.40	901	<1	.05	15	844	33	<5	<20	171	<.01	<10	63	<10	4	50
535 - 20	84725	5	<.2	1.42	33	<2	24	8	4.37	<1	32	23	54	5.62	.09	<10	1.41	1028	1	.04	16	796	33	<5	<20	119	<.01	<10	59	<10	7	50
535 - 21	84726	20	.3	1.20	16	<2	25	<5	4.14	<1	22	9	178	4.87	.09	<10	1.21	775	<1	.02	5	702	63	<5	<20	100	<.01	<10	55	<10	5	44
535 - 22	84727	20	.2	1.75	24	<2	29	<5	4.49	<1	27	20	73	5.09	.10	<10	1.75	887	1	.02	8	746	14	<5	<20	127	<.01	<10	69	<10	3	55
535 - 23	84728	10	<.2	1.30	12	<2	21	<5	3.22	<1	22	11	61	5.09	.08	<10	1.35	600	<1	.03	8	855	103	<5	<20	130	<.01	<10	60	<10	4	69
535 - 24	84729	10	<.2	1.68	20	<2	24	<5	3.40	<1	23	23	9	4.86	.11	<10	1.28	569	2	.03	6	875	9	5	<20	90	<.01	<10	59	<10	4	35
535 - 25	84730	30	.3	1.02	33	5	43	<5	.99	<1	27	19	43	5.73	.17	<10	.58	650	<1	.08	28	1202	14	<5	<20	89	<.01	<10	33	<10	7	73
535 - 26	84731	5	.2	.67	16	<2	44	<5	2.45	<1	21	10	13	4.69	.15	12	.56	1105	<1	.05	20	2018	4	11	<20	113	<.01	<10	37	<10	8	53

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETK 90-535

PAGE 2

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
535 - 27	84732	15	.6	.67	12	<2	37	<5	4.80	<1	18	22	26	5.40	.11	12	.70	1737	1	<.01	19	1463	8	<5	<20	153	<.01	<10	50	<10	5	51
535 - 28	84733	15	.4	.82	<5	<2	137	<5	3.05	<1	15	11	117	2.69	.18	13	.56	760	1	.04	15	1560	21	<5	<20	192	<.01	<10	17	<10	8	57
535 - 29	84734	30	1.1	.62	6	<2	113	<5	1.97	<1	12	16	153	2.47	.15	11	.44	599	2	.05	13	1360	16	<5	<20	110	<.01	<10	16	<10	6	53
535 - 30	84735	90	1.5	.77	<5	<2	300	<5	2.94	<1	13	13	400	2.65	.21	13	.45	828	<1	.03	15	1375	13	<5	<20	178	<.01	<10	16	<10	7	51
535 - 31	84736	10	1.3	.83	10	<2	169	<5	3.03	<1	12	20	549	2.99	.34	14	.40	918	1	.03	12	1645	11	<5	<20	205	<.01	<10	23	<10	7	54
535 - 32	84737	55	2.9	.33	21	3	23	<5	1.66	<1	15	38	572	4.42	.15	12	.35	518	4	.05	15	1628	20	<5	<20	95	<.01	<10	20	<10	5	102
535 - 33	84738	20	.3	.29	13	<2	27	<5	3.28	<1	12	17	35	4.19	.13	15	.35	889	2	.02	13	1834	12	<5	<20	237	<.01	<10	26	<10	7	43
535 - 34	84739	30	.3	.34	20	<2	30	<5	3.95	<1	14	35	48	4.44	.15	15	.35	1176	2	<.01	16	1697	15	<5	<20	260	<.01	<10	20	<10	6	45
535 - 35	84740	45	.3	.50	13	<2	44	<5	3.60	<1	14	51	30	3.88	.21	14	.39	1106	3	.02	15	1719	10	<5	<20	260	<.01	<10	18	<10	6	48
535 - 36	84741	10	.5	.36	25	<2	51	<5	2.51	<1	15	19	59	4.29	.11	11	.69	832	<1	.03	17	1586	14	<5	<20	169	<.01	<10	27	<10	4	52
535 - 37	84742	10	.4	.54	9	<2	48	<5	2.69	<1	12	42	441	3.61	.25	13	.48	671	3	.04	13	2120	7	<5	<20	136	<.01	<10	27	<10	5	38
535 - 38	84743	5	<.2	1.47	12	<2	44	<5	3.88	<1	10	31	151	3.80	.26	16	.60	690	2	.02	11	2138	11	<5	<20	202	<.01	<10	27	<10	6	35
535 - 39	84744	10	<.2	1.85	19	<2	71	<5	3.03	<1	13	25	146	4.66	.20	14	.76	653	1	.02	19	2227	7	<5	<20	121	<.01	<10	36	<10	3	50
535 - 40	84745	10	<.2	.56	16	<2	32	<5	2.75	<1	16	45	50	3.75	.05	<10	.51	652	<1	<.01	23	581	5	<5	<20	70	<.01	<10	38	<10	1	32
535 - 41	84746	20	1.0	.37	24	<2	44	<5	3.00	<1	19	58	110	4.81	.11	10	.96	803	3	<.01	25	1863	9	<5	<20	136	<.01	<10	54	<10	4	57
535 - 42	84747	230	.6	.66	15	<2	78	<5	2.65	<1	9	72	70	2.85	.11	<10	.51	705	4	<.01	12	1250	18	<5	<20	41	<.01	<10	26	<10	2	51
535 - 43	84748	15	.5	1.60	37	<2	45	<5	3.83	<1	19	85	97	4.71	.11	10	.98	955	4	<.01	21	1291	9	<5	<20	57	<.01	<10	71	<10	4	46
535 - 44	84749	<5	.6	1.24	24	2	41	<5	2.20	<1	20	36	171	5.24	.12	13	.80	525	<1	.02	26	2343	8	<5	<20	86	<.01	<10	28	<10	5	76

NOTE: < = LESS THAN

FAX:F. HEWITT 689-5041

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

SC90/CARMAC

ECO-TECH LABORATORIES LTD.

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

CARMAC RESOURCES - ETS 90-9070

C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

SEPTEMBER 6, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

20 CORE SAMPLES RECEIVED AUGUST 27, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9070 - 1	84606	<5	.3	.55	29	<2	20	<5	2.51	<1	19	21	32	6.48	.23	18	.56	1202	<1	.10	13	2599	15	<5	<20	110	<.01	<10	31	<10	3	78
9070 - 2	84607	<5	.9	.67	25	<2	13	<5	2.88	<1	22	15	122	5.79	.19	12	.54	981	<1	.07	20	2753	13	<5	<20	127	<.01	<10	50	<10	8	87
9070 - 3	84608	<5	.7	.38	28	<2	44	<5	2.79	<1	24	13	363	3.17	.19	<10	.34	998	<1	.07	16	1129	10	<5	<20	127	<.01	<10	49	<10	2	60
9070 - 4	84609	5	1.0	.29	16	<2	88	<5	2.72	<1	19	13	336	2.47	.18	<10	.35	876	<1	.07	14	805	11	<5	<20	121	<.01	<10	15	<10	2	41
9070 - 5	84610	<5	.3	.53	18	<2	59	<5	3.51	<1	24	21	48	4.25	.18	14	.57	1236	<1	.04	17	1436	11	<5	<20	135	<.01	<10	26	<10	7	62
9070 - 6	84611	<5	.3	.36	26	<2	44	<5	2.68	<1	16	18	67	3.57	.19	13	.38	870	1	.05	14	1709	11	<5	<20	122	<.01	<10	18	<10	6	56
9070 - 7	84612	15	.7	.35	33	<2	16	<5	3.82	<1	16	18	235	3.74	.16	13	.40	984	1	.04	13	1714	12	<5	<20	179	<.01	<10	22	<10	5	53
9070 - 8	84613	5	.4	.42	40	<2	31	<5	3.58	<1	23	20	273	3.91	.16	15	.43	1173	<1	.05	17	1875	12	<5	<20	230	<.01	<10	27	<10	6	54
9070 - 9	84614	<5	.3	.35	17	<2	39	<5	4.33	<1	14	24	128	4.07	.15	17	.56	1394	<1	.02	18	2030	7	<5	<20	224	<.01	<10	31	<10	5	58
9070 - 10	84615	<5	.5	.33	32	<2	43	<5	3.74	<1	16	19	255	3.94	.15	15	.62	1049	<1	.03	19	1847	14	<5	<20	237	<.01	<10	26	<10	5	55
9070 - 11	84616	<5	<.2	.32	15	<2	22	<5	3.91	<1	18	17	19	4.76	.13	14	.87	1382	<1	.02	21	1564	9	<5	<20	229	<.01	<10	40	<10	2	59
9070 - 12	84617	<5	<.2	.31	11	<2	641	<5	4.54	<1	17	46	78	4.37	.15	16	.69	1606	<1	.02	25	1561	4	<5	<20	242	.01	<10	46	<10	3	47
9070 - 13	84618	10	.3	.33	13	<2	322	<5	3.60	<1	23	19	187	4.87	.13	15	1.09	1745	<1	.04	21	1339	4	<5	<20	184	<.01	<10	35	<10	1	60
9070 - 14	84619	15	.3	.43	10	<2	162	<5	2.50	<1	26	14	164	4.75	.15	14	1.14	1201	<1	.06	24	1787	6	<5	<20	176	<.01	<10	41	<10	3	60
9070 - 15	84620	10	<.2	.44	13	<2	105	<5	2.40	<1	23	13	144	4.72	.14	13	1.06	1189	<1	.06	21	1766	13	<5	<20	143	<.01	<10	42	<10	3	59
9070 - 16	84621	<5	.3	.45	12	<2	41	<5	3.40	<1	17	10	165	4.32	.18	14	.90	1398	<1	.05	14	2112	5	<5	<20	129	<.01	<10	40	<10	3	46
9070 - 17	84622	<5	.3	.44	9	<2	47	<5	3.20	<1	14	9	153	3.53	.20	13	.74	1282	<1	.07	12	2019	4	<5	<20	178	<.01	<10	40	<10	4	38
9070 - 18	84623	<5	.4	.42	8	<2	201	<5	4.99	<1	15	10	140	3.68	.18	14	.80	1682	<1	.03	11	1916	5	<5	<20	215	<.01	<10	38	<10	3	41
9070 - 19	84624	<5	.4	.43	11	<2	116	<5	4.28	<1	15	14	167	3.99	.18	14	1.08	1512	<1	.04	13	1933	6	<5	<20	162	<.01	<10	40	<10	3	43
9070 - 20	84625	<5	.2	.46	10	<2	89	<5	2.74	<1	12	11	168	3.57	.20	13	.68	939	<1	.08	11	2297	4	<5	<20	114	<.01	<10	31	<10	4	35

NOTE: < = LESS THAN

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cc: DAVID VISAGIE C/O NORTHAIR GROUP

ECO-TECH LABORATORIES LTD.
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B.C. CERTIFIED ASSAYER

ECO-TECH LABORATORIES LTD.
10041 EAST TRANS CANADA HWY.

PHONE - 604-573-5700
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SEPTEMBER 11, 1990

CARMAC RESOURCES - ETS 90-9079

860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: CARMAC (HANK)
30 CORE SAMPLES RECEIVED AUGUST 30, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9079 - 1	84660	20	.8	1.16	33	<2	30	<5	3.64	<1	24	36	145	6.19	.12	<10	1.59	1801	<1	.01	4	1223	11	<5	<20	54	<.01	<10	60	<10	5	67
9079 - 2	84661	30	1.2	1.33	56	<2	35	<5	3.53	<1	24	30	494	6.67	.11	<10	1.91	1918	1	.01	4	1216	38	<5	<20	75	<.01	<10	73	<10	7	182
9079 - 3	84662	15	.5	1.31	25	<2	32	<5	3.13	<1	21	38	46	5.89	.14	<10	1.65	1733	<1	.01	3	1192	15	<5	<20	39	<.01	<10	54	<10	6	78
9079 - 4	84663	<5	.4	1.57	16	<2	27	<5	3.50	<1	19	35	43	5.41	.13	<10	1.86	2040	1	.01	4	1167	10	<5	<20	34	<.01	<10	54	<10	8	86
9079 - 5	84664	15	.5	1.47	15	<2	25	<5	3.86	<1	19	31	29	5.29	.14	<10	1.65	1955	<1	.01	4	1201	5	<5	<20	32	<.01	<10	51	<10	6	69
9079 - 6	84665	70	.8	1.44	40	<2	25	<5	3.12	<1	23	26	141	6.38	.11	<10	1.63	1876	<1	.01	3	1123	9	<5	<20	33	<.01	<10	59	<10	5	75
9079 - 7	84666	>1000	3.5	1.07	128	<2	29	<5	1.89	<1	20	47	526	9.47	.09	<10	1.13	1312	2	.03	4	1212	32	<5	<20	15	<.01	<10	50	<10	<1	59
9079 - 8	84667	105	.8	1.53	41	<2	32	<5	2.20	<1	21	27	53	6.06	.11	<10	1.72	1898	1	.02	4	1102	8	<5	<20	22	<.01	<10	72	<10	4	78
9079 - 9	84668	150	1.3	1.48	139	<2	37	<5	2.01	<1	19	30	56	6.54	.09	<10	1.69	1453	2	.03	4	1217	24	<5	<20	20	<.01	<10	85	<10	3	92
9079 - 10	84669	60	.4	1.54	19	<2	26	<5	4.15	<1	20	27	59	5.72	.12	<10	1.84	2056	1	.02	4	1177	7	<5	<20	34	<.01	<10	73	<10	7	78
9079 - 11	84670	170	1.4	1.27	19	<2	24	<5	3.34	2	19	35	310	5.92	.12	<10	1.54	1836	<1	.02	3	1070	78	<5	<20	38	<.01	<10	54	<10	6	298
9079 - 12	84671	100	.8	1.21	20	<2	18	<5	3.86	<1	20	28	38	5.50	.13	<10	1.75	1859	<1	.04	4	1123	11	<5	<20	75	<.01	<10	61	<10	7	83
9079 - 13	84688	55	.8	.86	51	<2	23	<5	3.74	<1	21	27	71	6.16	.12	<10	1.28	1557	<1	.02	4	1042	24	<5	<20	84	<.01	<10	51	<10	5	72
9079 - 14	84689	45	.8	.45	48	<2	<5	<5	3.93	<1	13	19	79	5.12	.12	<10	1.47	1396	<1	.02	3	1048	12	<5	<20	186	<.01	<10	34	<10	8	54
9079 - 15	84690	410	3.6	.40	95	<2	27	<5	1.94	<1	23	44	152	8.53	.12	<10	.61	472	1	.04	5	934	36	<5	<20	79	<.01	<10	16	<10	<1	67
9079 - 16	84691	160	1.3	.40	40	<2	20	<5	1.89	<1	23	34	91	6.63	.15	<10	.42	495	2	.05	6	1053	39	<5	<20	54	<.01	<10	22	<10	2	161
9079 - 17	84692	95	.8	.42	32	<2	18	<5	1.75	<1	17	40	7	4.32	.17	<10	.31	408	1	.05	4	1235	6	<5	<20	46	<.01	<10	17	<10	5	33
9079 - 18	84693	105	1.8	.41	87	<2	22	<5	2.22	<1	16	40	99	7.13	.17	<10	.34	478	2	.02	3	1141	38	<5	<20	44	<.01	<10	15	<10	4	94
9079 - 19	84694	140	2.1	.43	89	<2	18	<5	3.91	4	22	56	127	6.70	.18	<10	.60	839	1	<.01	5	1108	127	<5	<20	68	<.01	<10	15	<10	7	598
9079 - 20	84695	180	1.8	.36	94	<2	15	<5	1.61	<1	14	46	28	5.58	.15	<10	.47	352	3	.01	4	1003	50	<5	<20	52	<.01	<10	14	<10	<1	107
9079 - 21	84696	35	.5	.38	19	<2	12	<5	3.55	<1	19	30	9	4.01	.16	<10	.86	718	<1	<.01	6	889	35	<5	<20	96	<.01	<10	30	<10	5	128
9079 - 22	84697	90	1.0	.31	51	<2	11	<5	4.15	3	20	29	40	3.99	.13	<10	1.00	1166	2	<.01	6	753	128	<5	<20	119	<.01	<10	23	<10	6	367
9079 - 23	84698	65	1.0	.44	71	<2	17	<5	4.07	<1	24	28	205	5.39	.18	10	.49	844	<1	<.01	4	1586	92	<5	<20	96	<.01	<10	14	<10	6	121
9079 - 24	84699	<5	<.2	.48	19	<2	11	<5	4.31	<1	21	24	70	4.77	.16	<10	1.60	942	1	<.01	5	991	14	<5	<20	324	<.01	<10	55	<10	8	62
9079 - 25	84700	10	<.2	.80	79	<2	21	<5	3.79	<1	22	26	41	4.68	.12	<10	1.53	854	2	<.01	6	950	11	<5	<20	170	<.01	<10	56	<10	7	57
9079 - 26	84701	<5	<.2	.67	44	<2	19	<5	3.98	<1	24	23	91	5.86	.15	<10	1.20	745	<1	<.01	5	875	4	<5	<20	202	<.01	<10	54	<10	5	31

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETS 90-9079

PAGE 2

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9079 - 27	84702	<5	<.2	.47	46	<2	22	<5	4.74	<1	26	21	211	6.20	.13	<10	1.64	1106	<1	<.01	6	864	14	<5	<20	120	<.01	<10	57	<10	4	40
9079 - 28	84703	30	.3	.51	39	<2	21	<5	4.15	<1	27	27	80	6.20	.15	<10	1.60	910	3	<.01	7	959	5	<5	<20	103	<.01	<10	55	<10	4	32
9079 - 29	84704	15	.7	.67	57	<2	28	<5	4.25	<1	32	35	122	6.94	.16	10	1.67	1021	<1	<.01	7	992	9	<5	<20	58	<.01	18	48	<10	7	31
9079 - 30	84705	45	.9	.36	33	<2	26	<5	7.36	<1	16	21	40	4.74	.14	11	1.73	1982	1	<.01	5	824	8	<5	<20	68	<.01	16	31	<10	11	46

NOTE: < = LESS THAN

FAX: P.HEWITT 689-5041
DAVE VISAGIE 636-2363

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 11, 1990

CERTIFICATE OF ANALYSIS ETS 9079

CARMAC RESOURCES
C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

A S S A Y S

SAMPLE IDENTIFICATION: 30 CORE samples received AUGUST 31, 1990

ET#	Description	AU (g/t)	AU (oz/t)
9079 - 7	84666	1.04	.030

ECO-TECH LABORATORIES LTD.
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SC90/CARMAC

ECO-TECH LABORATORIES LTD.

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KAMLOOPS, B.C. V2C 2J3
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CARMAC RESOURCES - ETS 90-9094

C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

SEPTEMBER 20, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: HANK
212 CORE SAMPLES RECEIVED SEPTEMBER 8, 1990

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9094 - 1	83451	10	<.2	.70	10	<2	<5	5	1.71	<1	28	12	13	5.54	.10	18	1.49	418	<1	.03	6	962	40	<5	<20	43	<.01	<10	55	<10	<1	23
9094 - 2	83452	15	.6	.77	13	<2	<5	<5	1.18	<1	24	16	61	5.77	.09	17	1.42	428	<1	.04	7	959	11	<5	<20	44	<.01	<10	62	<10	<1	23
9094 - 3	83453	205	.5	.33	77	<2	<5	8	1.64	<1	27	35	70	5.61	.06	17	1.14	482	2	.02	7	684	28	<5	<20	47	<.01	<10	26	<10	<1	18
9094 - 4	83454	5	.3	1.47	<5	<2	<5	<5	2.42	<1	35	14	10	6.24	.11	21	2.40	923	<1	.04	6	1082	10	<5	<20	90	<.01	<10	82	<10	<1	41
9094 - 5	83455	10	<.2	2.47	<5	<2	23	<5	3.39	<1	27	30	132	6.60	.16	23	2.76	1613	<1	.01	14	944	2	<5	<20	84	<.01	<10	106	<10	<1	73
9094 - 6	83456	10	1.2	1.69	9	<2	16	<5	2.97	<1	33	31	89	6.95	.12	23	2.25	1224	<1	<.01	17	878	140	<5	<20	46	<.01	<10	100	<10	<1	179
9094 - 7	83457	110	2.8	.97	33	<2	<5	<5	1.91	<1	28	29	64	6.04	.11	19	1.54	586	1	.02	16	967	163	<5	<20	49	<.01	<10	57	<10	<1	252
9094 - 8	83458	>1000	1.4	1.17	30	<2	8	<5	1.39	<1	23	43	48	3.85	.08	12	1.48	682	6	.02	10	703	109	<5	<20	48	<.01	<10	53	<10	<1	107
9094 - 9	83459	260	1.2	2.30	7	<2	11	<5	1.57	<1	37	34	138	7.31	.09	22	3.00	1314	<1	.04	12	983	71	<5	<20	35	<.01	<10	136	<10	<1	178
9094 - 10	83460	115	.8	1.91	20	<2	12	5	1.25	<1	30	34	47	6.99	.08	20	2.38	856	2	.03	12	889	14	<5	<20	17	<.01	<10	116	<10	<1	57
9094 - 11	83461	10	.4	2.31	<5	<2	14	<5	2.30	<1	28	28	72	6.04	.09	20	2.59	1170	<1	<.01	10	960	8	<5	<20	19	<.01	<10	112	<10	<1	74
9094 - 12	83462	15	.9	2.10	6	<2	25	<5	3.04	<1	30	23	169	5.64	.16	18	1.91	1256	<1	<.01	9	888	5	<5	<20	48	<.01	<10	81	<10	<1	65
9094 - 13	83463	65	1.5	1.62	29	<2	11	<5	2.89	<1	31	22	230	5.47	.10	17	2.28	1137	2	<.01	6	951	7	<5	<20	19	<.01	<10	74	<10	<1	57
9094 - 14	83464	355	2.4	.87	71	<2	6	<5	1.91	<1	33	23	66	5.63	.08	17	1.48	672	2	.03	5	902	11	<5	<20	21	<.01	<10	54	<10	<1	64
9094 - 15	83465	575	2.2	1.24	76	4	<5	<5	.53	1	30	31	51	5.63	.08	15	1.40	557	3	.04	7	900	19	<5	<20	24	<.01	<10	61	<10	<1	487
9094 - 16	83466	495	4.8	1.58	67	<2	11	7	1.57	15	24	25	126	5.51	.11	18	1.63	1007	7	.02	7	1088	46	<5	<20	29	<.01	<10	73	<10	<1	2008
9094 - 17	83467	40	.5	1.91	58	<2	10	<5	2.90	<1	22	20	80	5.92	.10	23	1.87	1144	<1	.02	3	1151	18	<5	<20	19	<.01	<10	88	<10	1	167
9094 - 18	83468	10	1.1	1.52	13	<2	9	<5	2.62	<1	23	19	66	5.24	.11	21	1.70	792	<1	.03	3	1020	14	<5	<20	41	<.01	<10	91	<10	<1	86
9094 - 19	83469	25	.9	1.47	34	<2	16	<5	2.89	3	30	22	20	4.93	.13	20	1.48	711	<1	<.01	5	1117	16	<5	<20	13	<.01	<10	59	<10	3	627
9094 - 20	83470	35	1.4	2.04	23	<2	12	<5	2.45	<1	32	17	102	6.81	.13	25	2.12	993	<1	.02	6	1084	26	<5	<20	31	<.01	<10	97	<10	<1	100
9094 - 21	83471	<5	.4	2.16	14	<2	9	<5	2.39	<1	27	16	135	7.05	.09	27	2.47	1160	<1	.02	5	1100	69	<5	<20	15	<.01	<10	120	<10	<1	146
9094 - 22	83472	<5	.3	.27	20	<2	21	<5	3.55	<1	18	29	64	3.97	.13	22	.34	804	2	<.01	15	2096	9	<5	<20	149	<.01	<10	19	<10	5	68
9094 - 23	83473	<5	.8	.26	37	<2	15	<5	3.97	<1	21	23	68	4.50	.13	24	.43	846	1	<.01	20	1997	9	<5	<20	166	<.01	<10	20	<10	3	46
9094 - 24	83474	5	<.2	.50	33	<2	14	<5	3.76	<1	25	22	60	5.06	.10	25	.52	1052	2	<.01	24	1692	5	<5	<20	145	<.01	<10	30	<10	2	54
9094 - 25	83475	<5	.6	.22	20	<2	13	<5	3.42	<1	17	22	65	2.99	.11	18	.33	795	2	<.01	15	1685	7	<5	<20	122	<.01	<10	15	<10	4	50
9094 - 26	83476	90	2.7	.29	12	<2	23	<5	4.46	<1	19	32	70	4.48	.13	23	.65	997	2	<.01	23	1958	14	<5	<20	118	<.01	<10	28	<10	1	87

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETS 90-9094

PAGE 2

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9094 - 27	83477	140	1.5	.18	15	<2	21	<5	4.97	<1	11	48	80	2.40	.09	13	.38	979	3	<.01	12	1386	7	<5	<20	51	<.01	<10	8	<10	2	50
9094 - 28	83478	<5	1.6	.34	9	<2	18	<5	3.27	<1	13	17	165	3.43	.16	22	.42	584	1	<.01	12	2827	6	<5	<20	88	<.01	<10	17	<10	4	46
9094 - 29	83479	10	2.2	.33	12	<2	19	<5	3.36	<1	16	18	193	3.79	.16	22	.60	609	1	<.01	13	2716	11	<5	<20	107	<.01	<10	16	<10	3	70
9094 - 30	83480	<5	.8	.47	9	<2	26	<5	5.05	<1	14	11	96	3.73	.18	25	.64	982	2	<.01	10	2301	6	<5	<20	129	<.01	<10	48	<10	4	64
9094 - 31	83481	<5	1.3	.29	24	<2	13	<5	4.16	<1	17	14	159	4.07	.15	24	.55	771	<1	<.01	12	2578	8	<5	<20	137	<.01	<10	18	<10	2	31
9094 - 32	83482	<5	.8	.30	19	<2	12	<5	4.80	<1	18	17	162	4.20	.17	25	.45	882	1	<.01	13	2566	7	<5	<20	150	<.01	<10	25	<10	2	34
9094 - 33	83483	<5	.4	.43	10	<2	22	<5	6.81	<1	15	10	147	4.05	.21	30	.72	1236	3	<.01	12	2608	4	<5	<20	154	<.01	<10	39	<10	4	50
9094 - 34	83484	5	1.0	.41	28	<2	6	<5	4.37	<1	14	9	160	3.90	.20	28	.50	866	3	.03	11	2975	6	<5	<20	137	<.01	<10	34	<10	6	53
9094 - 35	83485	30	2.6	.21	667	<2	<5	<5	3.77	<1	16	38	95	5.34	<.01	25	.32	936	5	<.01	13	1728	18	8	<20	50	<.01	<10	10	<10	<1	209
9094 - 36	83486	30	1.1	.36	34	<2	12	<5	5.08	<1	29	51	72	5.39	.07	27	1.48	1408	2	<.01	20	1148	23	<5	<20	136	<.01	<10	103	<10	<1	49
9094 - 37	83487	<5	2.3	.30	182	<2	6	<5	3.72	<1	44	51	93	7.42	.05	34	.74	993	2	<.01	30	1231	23	<5	<20	83	<.01	<10	67	<10	<1	114
9094 - 38	83488	5	1.2	.30	43	<2	20	<5	5.30	<1	27	63	112	3.71	.10	22	.97	1558	5	<.01	23	1868	52	<5	<20	135	<.01	<10	63	<10	9	160
9094 - 39	83489	295	1.9	.26	213	<2	16	<5	3.39	<1	38	60	78	7.04	.04	33	.91	1178	1	<.01	23	1295	13	<5	<20	93	<.01	<10	54	<10	<1	69
9094 - 40	83490	140	2.9	.25	155	<2	<5	<5	1.86	<1	36	39	101	6.79	.07	31	.37	440	5	.03	28	1190	55	6	<20	59	<.01	<10	27	<10	<1	307
9094 - 41	83491	265	1.6	.25	89	<2	9	<5	2.50	<1	33	29	75	5.86	.08	27	.74	839	2	<.01	10	917	17	<5	<20	52	<.01	20	57	<10	<1	103
9094 - 42	83492	915	3.5	.23	137	3	6	<5	1.44	<1	28	50	70	4.96	.06	22	.55	497	4	.03	11	736	50	<5	<20	72	<.01	<10	37	<10	<1	54
9094 - 43	83493	185	3.9	.25	70	<2	<5	<5	1.63	2	42	41	97	7.56	.09	31	.74	461	3	.03	14	1035	208	<5	<20	105	<.01	<10	29	<10	<1	575
9094 - 44	83494	30	2.1	.30	19	<2	<5	<5	3.57	<1	32	22	50	7.23	.12	34	1.14	695	2	<.01	8	1190	64	<5	<20	191	<.01	<10	43	<10	<1	208
9094 - 45	83495	35	.5	.26	23	<2	<5	<5	3.98	<1	26	16	100	4.57	.11	22	1.31	776	<1	<.01	6	981	6	<5	<20	202	<.01	<10	46	<10	3	43
9094 - 46	83496	450	6.2	.26	48	<2	<5	<5	2.45	4	12	25	113	6.08	.14	27	.96	637	2	<.01	8	1171	223	<5	<20	44	<.01	<10	34	<10	<1	784
9094 - 47	83497	385	1.2	.22	26	<2	<5	<5	3.07	<1	34	20	23	4.33	.13	21	1.11	711	1	<.01	5	927	32	<5	<20	49	<.01	<10	27	<10	3	40
9094 - 48	83498	100	.9	.27	15	<2	7	<5	1.72	<1	21	13	19	4.79	.11	22	.76	552	<1	<.01	4	899	10	<5	<20	50	<.01	<10	37	<10	<1	38
9094 - 49	83499	375	2.8	.22	21	<2	<5	<5	3.07	<1	14	11	85	4.70	.11	24	1.12	850	<1	<.01	5	915	19	<5	<20	47	<.01	<10	36	<10	2	213
9094 - 50	83500	195	1.5	.22	21	<2	7	<5	2.38	<1	19	11	9	6.27	.14	31	.85	588	<1	<.01	5	1028	24	<5	<20	45	<.01	<10	26	<10	<1	78
9094 - 51	83501	>1000	9.7	.10	57	<2	<5	<5	1.85	80	26	31	190	4.37	.03	19	.29	472	3	<.01	4	502	179	<5	<20	26	<.01	<10	8	36	<1	8859
9094 - 52	83502	600	4.8	.19	67	<2	9	<5	2.83	8	28	18	73	5.12	.11	25	.54	749	4	<.01	6	958	252	<5	<20	30	<.01	<10	14	<10	1	1017
9094 - 53	83503	115	6.5	.25	21	<2	<5	<5	2.29	3	20	26	56	3.90	.16	20	.59	704	5	<.01	5	1218	3678	<5	<20	54	<.01	<10	24	<10	<1	392
9094 - 54	83504	215	3.6	.26	49	<2	<5	<5	3.30	3	19	20	74	5.41	.12	28	1.11	1183	3	<.01	2	1040	117	<5	<20	69	<.01	11	38	<10	<1	533
9094 - 55	83505	80	<.2	.23	13	<2	<5	<5	2.76	<1	16	19	13	3.82	.11	21	1.04	968	3	<.01	4	1039	4	<5	<20	68	<.01	<10	31	<10	2	40
9094 - 56	83506	40	.4	.23	10	<2	<5	<5	2.68	<1	15	16	43	2.60	.12	15	.85	884	2	<.01	3	1249	16	<5	<20	74	<.01	<10	25	<10	4	36
9094 - 57	83507	35	.8	.21	5	<2	6	<5	2.75	<1	11	24	34	2.78	.11	15	.91	956	1	<.01	2	1159	2	<5	<20	51	<.01	<10	24	<10	4	28
9094 - 58	83508	85	1.6	.20	56	<2	<5	<5	2.40	<1	15	17	67	3.68	.09	19	.83	838	1	<.01	3	1102	208	<5	<20	114	<.01	<10	23	<10	2	131
9094 - 59	83509	285	17.8	.26	69	<2	12	<5	2.38	86	25	41	1066	4.43	.15	24	.75	805	3	<.01	4	944	4771	<5	<20	94	<.01	<10	15	31	1	9018
9094 - 60	83510	105	4.1	.33	13	<2	<5	<5	3.21	6	19	25	34	4.76	.16	26	1.28	905	2	<.01	4	1181	431	10	<20	157	<.01	<10	33	<10	2	696
9094 - 61	83511	285	8.9	.27	39	<2	8	<5	3.15	35	18	28	143	5.28	.14	28	1.29	1133	2	<.01	3	989	2954	<5	<20	108	<.01	<10	31	12	<1	3791
9094 - 62	83512	>1000	17.9	.16	31	<2	19	<5	1.70	138	14	37	571	3.55	.09	16	.73	592	5	<.01	2	575	762	<5	<20	49	<.01	<10	13	66	<1	>10000
9094 - 63	83513	15	.8	.32	15	<2	<5	<5	3.08	<1	23	31	6	4.97	.15	26	1.50	969	2	<.01	3	1148	26	<5	<20	54	<.01	<10	52	<10	<1	66

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CARMAC RESOURCES - ETS 90-9094

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ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9094 - 64	83514	55	1.2	.68	52	<2	8	<5	2.88	<1	23	40	83	5.45	.12	29	1.75	1090	2	<.01	5	1007	146	<5	<20	65	<.01	<10	58	<10	<1	246
9094 - 65	83515	15	.4	.30	7	<2	<5	<5	3.71	<1	21	29	7	6.19	.13	33	1.69	790	2	<.01	3	1027	40	<5	<20	177	<.01	<10	40	<10	<1	46
9094 - 66	83516	365	1.6	.30	41	<2	<5	<5	2.62	1	23	30	30	5.54	.14	29	.97	554	2	<.01	3	1084	207	<5	<20	126	<.01	<10	21	<10	<1	317
9094 - 67	83517	165	1.9	.33	73	<2	7	<5	2.89	4	28	36	42	5.34	.18	29	.83	865	1	<.01	5	1421	272	<5	<20	51	<.01	<10	17	<10	<1	643
9094 - 68	83518	255	2.1	.26	49	<2	13	<5	3.16	1	20	19	130	4.02	.12	22	.81	791	<1	<.01	1	896	212	<5	<20	78	<.01	<10	24	<10	<1	364
9094 - 69	83519	115	1.4	.38	32	<2	<5	<5	3.94	<5	27	26	27	6.26	.15	33	1.30	972	1	<.01	4	998	88	<5	<20	125	<.01	<10	38	<10	<1	186
9094 - 70	83520	500	5.7	.37	58	<2	<5	<5	4.38	17	21	32	176	5.23	.10	29	1.50	1115	2	<.01	3	623	494	<5	<20	282	<.01	11	44	<10	<1	1952
9094 - 71	83521	415	4.9	.23	95	<2	8	<5	2.26	41	24	34	130	5.83	.11	30	.68	718	4	<.01	4	863	1155	<5	<20	57	<.01	<10	17	19	<1	4641
9094 - 72	83522	420	1.8	.25	69	<2	<5	<5	3.43	6	21	31	84	4.78	.14	26	.94	960	2	<.01	4	840	133	<5	<20	86	<.01	<10	24	<10	<1	795
9094 - 73	83523	155	1.6	.22	33	<2	<5	<5	2.90	16	19	20	100	4.16	.09	23	1.01	908	2	<.01	4	638	176	<5	<20	86	<.01	<10	33	<10	<1	1717
9094 - 74	83524	300	1.1	.19	35	<2	<5	<5	2.13	6	15	24	64	3.36	.08	19	.80	679	1	<.01	2	617	177	<5	<20	45	<.01	<10	21	<10	<1	763
9094 - 75	83525	355	1.5	.22	39	<2	<5	<5	2.53	5	16	25	111	3.48	.10	20	1.00	706	2	<.01	5	496	93	<5	<20	86	<.01	<10	38	<10	<1	667
9094 - 76	83526	645	1.5	.23	38	<2	<5	<5	1.72	<1	17	21	31	3.37	.10	19	.69	534	1	.01	3	610	44	<5	<20	77	<.01	<10	32	<10	<1	194
9094 - 77	83527	120	.8	.20	8	<2	<5	<5	1.81	6	19	29	37	4.30	.12	24	.40	495	4	<.01	4	803	530	<5	<20	60	<.01	<10	9	<10	<1	764
9094 - 78	83528	10	<.2	.16	<5	<2	<5	<5	2.48	2	13	18	54	3.53	.10	21	.39	612	1	<.01	1	641	145	<5	<20	64	<.01	<10	9	<10	<1	286
9094 - 79	83529	10	.3	.16	<5	<2	<5	<5	2.57	2	14	18	51	3.98	.09	24	.40	611	1	<.01	2	667	128	<5	<20	75	<.01	<10	8	<10	<1	365
9094 - 80	83530	65	.5	.18	19	<2	<5	<5	2.16	<1	14	19	29	3.55	.09	22	.44	503	<1	<.01	2	753	25	<5	<20	65	<.01	<10	8	<10	<1	172
9094 - 81	83531	190	1.0	.16	32	<2	<5	<5	2.54	<1	18	11	21	4.31	.07	26	.43	541	<1	<.01	2	703	11	<5	<20	65	<.01	<10	8	<10	<1	57
9094 - 82	83532	105	2.5	.13	53	<2	<5	<5	2.95	<1	17	12	6	3.93	.06	24	.36	553	<1	<.01	2	550	19	<5	<20	42	<.01	<10	8	<10	<1	21
9094 - 83	83533	210	8.1	.15	30	<2	<5	<5	2.03	<1	17	14	9	4.00	.07	24	.41	421	<1	<.01	3	591	19	<5	<20	49	<.01	<10	9	<10	<1	43
9094 - 84	83534	20	.3	.17	16	<2	<5	<5	2.63	<1	15	11	23	3.68	.07	23	.77	602	<1	<.01	2	567	28	<5	<20	100	<.01	<10	20	<10	<1	79
9094 - 85	83535	65	.7	.16	9	<2	<5	<5	2.45	13	11	10	247	3.76	.07	24	.71	742	<1	<.01	1	597	807	<5	<20	81	<.01	<10	20	<10	<1	1276
9094 - 86	83536	15	<.2	.18	21	<2	<5	<5	2.37	<1	11	9	31	4.40	.07	28	.75	697	<1	<.01	2	687	29	<5	<20	108	<.01	<10	25	<10	<1	50
9094 - 87	83537	15	.4	.16	31	<2	<5	<5	1.97	<1	10	14	37	3.40	.07	21	.42	429	2	<.01	2	624	55	<5	<20	54	<.01	<10	13	<10	<1	81
9094 - 88	83538	240	.7	.19	27	<2	<5	<5	2.23	<1	16	9	46	4.56	.07	28	.73	683	<1	.01	4	585	76	<5	<20	102	<.01	<10	35	<10	<1	58
9094 - 89	83539	135	.3	.21	7	<2	<5	<5	2.63	<1	14	7	86	3.19	.07	21	1.00	849	<1	<.01	2	551	6	<5	<20	148	<.01	<10	38	<10	2	23
9094 - 90	83540	15	.4	.18	<5	<2	<5	<5	2.85	3	9	7	43	2.29	.11	16	.20	595	2	<.01	1	743	178	<5	<20	83	<.01	<10	7	<10	4	323
9094 - 91	83541	10	.6	.15	16	<2	<5	<5	2.44	<1	18	11	31	4.51	.07	27	.27	502	<1	<.01	1	664	95	<5	<20	77	<.01	<10	8	<10	<1	111
9094 - 92	83542	5	<.2	.18	<5	<2	<5	<5	2.38	<1	13	8	12	3.10	.09	19	.41	483	<1	<.01	2	626	56	<5	<20	103	<.01	<10	12	<10	<1	39
9094 - 93	83543	10	.6	.24	29	<2	9	<5	3.71	6	21	15	115	4.88	.11	29	.64	753	1	<.01	6	871	212	<5	<20	156	<.01	<10	18	<10	<1	893
9094 - 94	83544	10	.3	.23	25	<2	8	<5	2.43	<1	20	13	64	5.26	.08	31	1.37	1017	<1	.03	2	821	7	<5	<20	97	<.01	<10	52	<10	<1	38
9094 - 95	83545	15	.3	.23	27	<2	9	<5	2.78	<1	24	15	87	5.05	.07	30	1.30	817	<1	.02	4	804	6	5	<20	87	<.01	<10	50	<10	<1	31
9094 - 96	83546	25	.5	.21	21	<2	11	<5	2.68	<1	17	15	16	4.75	.09	28	1.18	621	<1	.01	2	728	7	<5	<20	95	<.01	<10	41	<10	<1	166
9094 - 97	83547	140	1.1	.17	45	<2	10	<5	1.90	5	24	16	24	6.07	.08	35	.95	436	1	<.01	3	537	16	<5	<20	71	<.01	<10	19	<10	<1	783
9094 - 98	83548	10	<.2	.23	34	<2	11	<5	2.86	<1	25	15	7	5.45	.09	33	1.44	779	1	<.01	3	852	8	<5	<20	109	<.01	<10	42	<10	<1	37
9094 - 99	83549	10	.5	.24	29	<2	12	<5	2.51	<1	30	15	13	5.89	.11	36	1.35	674	<1	<.01	4	848	10	<5	<20	100	<.01	<10	30	<10	<1	34
9094 - 100	83550	10	.2	.25	23	<2	9	<5	2.99	<1	23	12	45	5.39	.09	31	1.49	760	<1	<.01	4	665	7	<5	<20	105	<.01	<10	52	<10	<1	66

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETS 90-9094

PAGE 4

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9094 - 101	83551	10	.2	.22	26	<2	9	<5	3.03	<1	21	13	127	5.22	.09	32	1.68	782	<1	<.01	4	528	12	<5	<20	148	<.01	<10	40	<10	<1	27
9094 - 102	83552	15	<.2	.24	33	<2	10	<5	2.05	<1	23	11	38	4.77	.09	29	1.73	707	<1	<.01	3	542	12	<5	<20	102	<.01	<10	35	<10	<1	29
9094 - 103	83553	15	.6	.17	43	<2	12	<5	1.81	<1	20	15	61	4.66	.08	27	1.21	483	<1	<.01	3	175	10	<5	<20	94	<.01	<10	24	<10	<1	24
9094 - 104	83554	35	.5	.20	42	<2	9	<5	2.08	<1	21	14	15	5.17	.08	30	1.15	560	<1	<.01	3	646	15	<5	<20	72	<.01	<10	23	<10	<1	53
9094 - 105	83555	250	1.4	.14	39	<2	<5	<5	1.49	2	21	26	41	3.90	.06	23	.79	367	7	<.01	5	238	19	7	<20	59	<.01	<10	7	<10	<1	373
9094 - 106	83556	5	.2	.19	18	<2	8	<5	2.53	<1	22	11	40	5.21	.08	31	1.33	792	<1	<.01	5	719	70	5	<20	53	<.01	<10	30	<10	<1	213
9094 - 107	83557	5	<.2	.18	28	<2	12	<5	2.13	<1	32	12	7	5.92	.07	34	1.32	685	<1	<.01	5	312	14	<5	<20	62	<.01	<10	25	<10	<1	41
9094 - 108	83558	10	.4	.17	31	<2	11	<5	1.96	<1	22	15	44	5.20	.06	30	1.07	621	<1	.01	4	136	11	<5	<20	59	<.01	<10	34	<10	<1	34
9094 - 109	83559	15	1.1	.21	39	<2	14	<5	2.05	<1	26	10	52	6.51	.11	38	.84	542	2	.01	9	1052	48	<5	<20	74	<.01	<10	28	<10	<1	101
9094 - 110	83560	5	.4	.21	12	<2	7	<5	2.63	<1	28	14	22	5.55	.12	35	.83	604	2	<.01	4	1060	13	<5	<20	72	<.01	<10	16	<10	<1	18
9094 - 111	83561	10	.5	.23	15	<2	15	<5	2.63	<1	26	13	13	6.39	.12	41	.88	601	1	.01	8	1146	7	<5	<20	111	<.01	<10	33	<10	<1	16
9094 - 112	83562	35	1.3	.23	44	<2	6	<5	1.87	<1	34	16	26	4.90	.12	30	.73	450	2	.01	6	1208	31	<5	<20	75	<.01	<10	17	<10	<1	82
9094 - 113	83563	10	<.2	.29	18	<2	10	<5	3.11	<1	26	19	148	5.90	.13	38	1.42	829	<1	<.01	5	1170	7	<5	<20	124	<.01	<10	53	<10	<1	26
9094 - 114	83564	15	<.2	.26	23	<2	7	<5	2.82	<1	18	13	100	5.37	.10	34	1.43	930	<1	.02	2	1011	6	<5	<20	105	<.01	<10	55	<10	<1	25
9094 - 115	83565	5	<.2	.27	17	<2	13	<5	2.71	<1	26	16	22	5.93	.12	38	1.24	637	2	.01	5	1157	4	<5	<20	76	<.01	<10	40	<10	<1	20
9094 - 116	83566	10	.6	.27	16	<2	9	<5	2.92	<1	33	16	7	7.18	.13	46	1.42	657	2	.01	7	1230	5	<5	<20	132	<.01	<10	34	<10	<1	57
9094 - 117	83567	10	1.1	.25	19	<2	14	<5	2.21	<1	28	19	5	6.49	.13	41	1.04	498	2	.02	9	1249	6	<5	<20	85	<.01	<10	26	<10	<1	17
9094 - 118	83568	5	1.1	.22	6	<2	14	<5	1.45	<1	19	22	15	7.13	.11	43	.97	422	1	.02	8	1178	8	<5	<20	46	<.01	<10	29	<10	<1	18
9094 - 119	83569	5	1.3	.24	9	<2	12	<5	1.56	<1	20	19	4	5.83	.11	37	1.16	470	2	.02	5	1264	7	<5	<20	51	<.01	<10	29	<10	<1	18
9094 - 120	83570	10	1.3	.22	6	<2	16	<5	1.82	<1	27	14	8	5.76	.11	36	1.18	457	<1	.02	3	845	4	<5	<20	63	<.01	<10	21	<10	<1	18
9094 - 121	83571	15	1.2	.20	11	<2	14	<5	2.51	<1	24	13	10	6.99	.10	43	1.38	528	<1	.02	3	123	6	<5	<20	98	<.01	<10	29	<10	<1	18
9094 - 122	83572	10	1.3	.16	16	<2	<5	<5	2.51	<1	20	15	2	4.38	.08	26	1.27	416	1	<.01	3	62	25	<5	<20	108	<.01	<10	19	<10	<1	21
9094 - 123	83573	60	<.2	.70	10	<2	<5	5	1.71	<1	28	12	13	5.54	.10	18	1.49	418	<1	.03	6	962	40	<5	<20	43	<.01	<10	55	<10	<1	23
9094 - 124	83574	10	.6	.77	13	<2	<5	<5	1.18	<1	24	16	61	5.77	.09	17	1.42	428	<1	.04	7	959	11	<5	<20	44	<.01	<10	62	<10	<1	23
9094 - 125	83575	90	.5	.33	77	<2	<5	8	1.64	<1	27	35	70	5.61	.06	17	1.14	482	2	.02	7	684	28	<5	<20	47	<.01	<10	26	<10	<1	18
9094 - 126	83576	10	.3	1.47	<5	<2	<5	<5	2.42	<1	35	14	10	6.24	.11	21	2.40	923	<1	.04	6	1082	10	<5	<20	90	<.01	<10	82	<10	<1	41
9094 - 127	83577	15	<.2	2.47	<5	<2	23	<5	3.39	<1	27	30	132	6.60	.16	23	2.76	1613	<1	.01	14	944	2	<5	<20	84	<.01	<10	106	<10	<1	73
9094 - 128	83578	10	1.0	.29	36	<2	<5	<5	2.01	<1	23	14	3	5.18	.10	47	1.50	539	2	.03	7	1004	14	<5	<20	73	<.01	<10	36	<10	<1	20
9094 - 129	83579	10	2.1	.24	31	<2	6	<5	2.02	<1	24	12	52	4.74	.11	30	1.02	461	<1	<.01	4	962	14	<5	<20	61	<.01	<10	32	<10	<1	18
9094 - 130	83580	50	4.8	.23	28	3	<5	<5	1.41	<1	24	13	128	5.46	.10	48	.66	284	2	.05	7	868	40	<5	<20	48	<.01	<10	30	<10	<1	21
9094 - 131	83581	90	2.0	.21	39	<2	5	<5	1.41	<1	21	13	109	5.01	.09	30	1.11	956	1	.01	2	488	9	<5	<20	37	<.01	<10	33	<10	<1	144
9094 - 132	83582	155	3.5	.19	53	<2	11	<5	2.06	5	18	9	100	5.06	.07	30	1.23	1029	<1	<.01	3	348	11	<5	<20	44	<.01	<10	31	<10	<1	684
9094 - 133	83583	305	2.1	.21	49	<2	14	<5	2.30	24	19	12	190	4.81	.07	29	1.29	1002	1	<.01	3	337	26	<5	<20	60	<.01	<10	39	<10	<1	2480
9094 - 134	83584	190	1.0	.21	58	<2	14	<5	2.40	4	19	10	87	4.88	.06	31	1.22	1172	<1	<.01	1	775	9	<5	<20	46	<.01	<10	43	<10	<1	617
9094 - 135	83585	125	.8	.22	50	<2	15	<5	1.99	<1	19	9	8	5.87	.07	36	1.19	1105	<1	1.00	<1	945	8	<5	<20	43	<.01	<10	45	<10	<1	38
9094 - 136	83586	105	.9	.20	39	<2	15	<5	1.92	<1	19	10	23	5.64	.06	35	1.24	1119	<1	.01	<1	716	10	<5	<20	71	<.01	<10	47	<10	<1	49

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ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9094 - 137	83587	135	.3	.21	14	<2	12	<5	1.80	<1	27	16	12	6.27	.10	38	.90	423	1	.02	9	981	6	<5	<20	62	<.01	<10	27	<10	<1	20
9094 - 138	83588	155	1.6	.21	64	<2	15	<5	1.80	<1	19	9	75	5.70	.05	35	1.29	1070	<1	.02	3	790	18	<5	<20	57	<.01	<10	45	<10	<1	58
9094 - 139	83589	165	1.8	.27	70	<2	13	<5	2.19	<1	25	11	139	7.60	.07	45	1.60	1727	<1	.02	4	957	16	<5	<20	58	<.01	<10	65	<10	<1	130
9094 - 140	83590	105	.6	.34	53	<2	9	<5	2.74	<1	26	12	77	7.15	.07	43	1.80	1944	1	<.01	6	944	8	<5	<20	65	<.01	<10	75	<10	<1	80
9094 - 141	83591	285	.8	.26	66	<2	13	<5	3.10	<1	27	15	22	7.62	.09	46	1.80	1678	2	<.01	5	1004	10	5	<20	69	<.01	<10	72	<10	<1	52
9094 - 142	83592	230	.7	.24	85	<2	11	<5	2.41	<1	32	12	89	8.74	.08	50	1.43	1102	1	<.01	8	1028	14	<5	<20	59	<.01	<10	63	<10	<1	44
9094 - 143	83593	150	.9	.27	82	<2	13	<5	2.09	<1	35	12	100	8.88	.10	50	1.31	1282	2	.01	8	1017	13	<5	<20	60	<.01	<10	46	<10	<1	48
9094 - 144	83594	210	1.0	.26	108	<2	12	<5	2.99	<1	35	13	20	8.85	.10	52	1.40	1304	<1	<.01	8	1035	21	<5	<20	82	<.01	<10	48	<10	<1	63
9094 - 145	83595	155	.5	.25	75	<2	12	<5	3.84	8	29	14	27	7.68	.08	45	1.85	1714	1	<.01	6	914	17	<5	<20	121	<.01	<10	64	<10	<1	1135
9094 - 146	83596	205	1.5	.25	55	<2	9	<5	3.56	5	33	16	35	8.32	.10	48	1.60	1094	2	.01	9	1117	18	<5	<20	125	<.01	<10	46	<10	<1	836
9094 - 147	83597	10	.7	.19	17	<2	14	<5	1.59	<1	23	20	13	7.49	.11	40	.74	350	4	.02	6	927	8	<5	<20	52	<.01	<10	11	<10	<1	46
9094 - 148	83598	55	1.2	.18	35	3	8	<5	1.36	1	26	36	19	6.49	.08	35	.61	353	3	.02	8	772	12	<5	<20	49	<.01	<10	14	<10	<1	372
9094 - 149	83599	50	1.7	.19	50	2	5	<5	.98	<1	23	27	35	6.76	.09	36	.43	231	1	.03	5	951	9	<5	<20	37	<.01	<10	9	<10	<1	19
9094 - 150	83600	10	1.0	.23	21	<2	18	<5	2.63	<1	28	20	74	8.55	.10	48	1.34	512	<1	<.01	4	1005	7	<5	<20	95	<.01	<10	25	<10	<1	38
9094 - 151	83601	10	1.5	.27	57	<2	15	<5	3.70	<1	28	15	181	8.03	.09	48	1.86	753	<1	<.01	2	1035	13	<5	<20	162	<.01	<10	39	<10	<1	53
9094 - 152	83602	80	1.5	.25	25	<2	16	<5	2.81	<1	25	17	143	7.03	.09	41	1.36	666	1	.03	6	964	9	<5	<20	182	<.01	<10	36	<10	<1	33
9094 - 153	83603	30	.8	.27	37	<2	12	<5	2.46	<1	28	25	37	8.20	.11	46	.85	435	1	.03	9	1094	6	<5	<20	109	<.01	<10	22	<10	<1	18
9094 - 154	83604	35	1.5	.22	41	<2	9	<5	2.01	<1	22	26	8	6.52	.10	36	.45	342	2	<.01	8	1039	12	<5	<20	30	<.01	<10	13	<10	<1	44
9094 - 155	83605	15	.5	.26	42	<2	12	<5	2.10	<1	33	33	3	8.23	.12	46	.91	460	2	.01	9	1782	8	<5	<20	57	<.01	<10	18	<10	<1	21
9094 - 156	83607	30	1.4	.26	54	<2	14	<5	2.57	<1	39	20	34	9.11	.11	51	.98	509	3	<.01	12	1564	13	<5	<20	57	<.01	<10	23	<10	<1	61
9094 - 157	83608	70	2.9	.23	48	<2	17	<5	2.09	<1	33	24	84	10.50	.12	56	.50	338	3	<.01	10	1462	24	<5	<20	31	<.01	<10	10	<10	<1	250
9094 - 158	83609	120	2.4	.29	61	<2	12	<5	2.68	<1	29	17	237	8.93	.10	49	.91	577	1	<.01	12	977	10	<5	<20	44	<.01	<10	23	<10	<1	34
9094 - 159	83610	10	<.2	.37	52	<2	7	<5	2.78	<1	27	18	8	8.23	.12	49	1.24	536	<1	<.01	10	1326	6	6	<20	71	<.01	<10	39	<10	<1	30
9094 - 160	83611	15	<.2	.42	24	<2	10	<5	3.19	<1	26	19	7	8.52	.12	52	1.38	611	<1	<.01	10	1452	4	<5	<20	66	<.01	<10	34	<10	<1	28
9094 - 161	83612	25	.8	.85	39	<2	19	<5	2.65	<1	23	26	103	8.99	.12	54	1.35	618	2	<.01	18	1423	7	<5	<20	14	<.01	<10	49	<10	<1	32
9094 - 162	84750	5	.5	1.64	30	<2	30	<5	4.26	<1	30	42	158	7.73	.09	50	1.34	1160	1	<.01	27	1972	8	<5	<20	94	<.01	<10	60	<10	<1	70
9094 - 163	84751	5	1.0	.78	43	<2	28	<5	3.20	<1	32	20	87	5.65	.10	36	.96	1116	3	<.01	14	1379	12	<5	<20	91	<.01	<10	48	<10	<1	46
9094 - 164	84752	5	1.0	.70	58	<2	20	<5	3.45	<1	41	20	101	6.46	.08	39	.79	1387	3	<.01	13	1217	15	12	<20	78	<.01	<10	53	<10	<1	61
9094 - 165	84753	15	3.4	1.62	44	<2	33	<5	4.15	<1	32	16	90	7.85	.08	47	1.07	1202	2	<.01	8	1029	12	6	<20	50	<.01	<10	85	<10	<1	59
9094 - 166	84754	5	.3	1.61	39	<2	38	<5	3.24	<1	25	16	53	6.06	.11	38	.98	1136	2	<.01	6	1011	2	<5	<20	48	<.01	<10	71	<10	<1	61
9094 - 167	84755	5	<.2	.32	21	<2	28	<5	5.56	<1	22	11	41	5.87	.13	37	.91	1994	<1	<.01	4	827	<2	<5	<20	72	<.01	<10	72	<10	1	46
9094 - 168	84756	5	.9	.33	40	<2	40	<5	4.39	<1	33	14	187	7.36	.10	45	1.16	1414	1	<.01	9	1061	11	5	<20	73	<.01	<10	74	<10	<1	72
9094 - 169	84757	30	1.7	.62	45	<2	24	<5	2.05	<1	51	16	112	9.44	.10	54	1.05	994	6	.02	13	1080	23	6	<20	40	<.01	<10	70	<10	<1	65
9094 - 170	84758	25	2.4	.64	21	<2	22	<5	2.78	<1	28	15	51	6.82	.12	40	.91	1119	1	<.01	7	1118	9	8	<20	47	<.01	<10	34	<10	<1	67

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CARMAC RESOURCES - ETS 90-9094

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ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9094 - 171	84759	115	4.7	.65	50	<2	16	<5	3.63	<1	18	16	36	4.37	.11	28	.63	1280	2	<.01	2	915	39	<5	<20	39	<.01	<10	19	<10	3	43
9094 - 172	84760	175	6.7	.32	61	4	11	<5	1.76	7	24	24	270	5.68	.11	33	.88	760	5	.03	3	1106	598	5	<20	92	<.01	<10	32	<10	<1	1101
9094 - 173	84761	190	2.5	.31	36	<2	8	<5	1.50	1	15	39	22	4.85	.06	25	.76	798	4	.02	4	802	232	<5	<20	50	<.01	<10	31	<10	<1	396
9094 - 175	84763	195	1.7	.26	55	3	11	<5	1.20	<1	22	35	44	6.22	.10	33	.50	326	3	.03	4	1090	188	<5	<20	53	<.01	<10	16	<10	<1	39
9094 - 176	84764	70	<.2	.26	11	<2	14	<5	3.20	<1	19	18	11	5.09	.13	32	1.13	757	2	<.01	1	1158	6	6	<20	106	<.01	<10	20	<10	2	36
9094 - 177	84765	155	.8	.22	48	<2	17	<5	1.66	<1	34	21	17	8.11	.12	44	.60	340	2	.02	3	1204	89	<5	<20	44	<.01	<10	7	<10	<1	38
9094 - 178	84766	295	3.6	.23	91	3	13	<5	.96	<1	43	27	195	8.74	.10	45	.46	200	3	.03	6	1060	112	<5	<20	37	<.01	<10	12	<10	<1	187
9094 - 179	84767	890	3.6	.23	91	3	13	<5	.96	<1	43	27	195	8.74	.10	45	.46	200	3	.03	6	1060	112	<5	<20	37	<.01	<10	12	<10	<1	187
9094 - 180	84768	220	2.2	.23	177	<2	15	<5	1.68	<1	24	20	106	7.04	.06	38	.65	423	2	.01	2	1100	87	<5	<20	39	<.01	<10	17	<10	<1	152
9094 - 181	84769	140	3.4	.64	32	<2	21	<5	2.71	17	17	16	97	6.05	.11	36	1.04	952	2	<.01	2	1041	1073	<5	<20	41	<.01	<10	29	<10	<1	2291
9094 - 182	84770	55	1.4	.76	7	<2	20	<5	2.18	<1	12	10	10	5.64	.13	33	1.09	883	<1	<.01	1	896	97	<5	<20	41	<.01	<10	31	<10	<1	240
9094 - 183	84771	95	2.0	.29	28	<2	9	<5	2.76	<1	25	13	53	6.80	.12	40	1.23	907	1	<.01	3	1145	309	11	<20	78	<.01	<10	29	11	<1	307
9094 - 184	84772	195	7.2	.27	130	<2	20	<5	3.39	27	32	15	55	6.94	.10	42	1.30	887	<1	<.01	4	1181	2608	<5	<20	81	<.01	<10	26	<10	<1	3463
9094 - 185	84773	180	6.7	.15	47	<2	<5	<5	2.20	17	18	11	13	6.57	.03	59	1.40	993	1	<.01	<1	665	1637	<5	<20	94	<.01	<10	30	<10	<1	2287
9094 - 186	84774	125	2.8	.28	69	<2	<5	<5	3.20	13	34	13	474	7.75	.07	73	1.80	1045	2	<.01	4	1270	1128	8	<20	186	<.01	<10	58	<10	<1	1728
9094 - 187	84775	80	1.8	.29	15	<2	<5	<5	2.41	9	14	11	28	3.96	.06	38	1.19	677	1	.03	3	855	596	<5	<20	93	<.01	<10	42	<10	<1	1318
9094 - 188	84776	10	.6	.45	12	<2	<5	<5	2.60	<1	11	25	26	3.99	.10	38	1.30	919	4	<.01	4	845	24	<5	<20	55	<.01	<10	52	<10	<1	57
9094 - 189	84777	145	10.1	.21	29	<2	<5	<5	2.29	27	10	29	101	3.21	.07	30	.66	492	6	<.01	5	798	1616	<5	<20	55	<.01	<10	18	<10	<1	2999
9094 - 190	84778	355	8.3	.24	40	<2	<5	<5	1.94	44	18	35	115	3.99	.04	35	.82	440	4	<.01	5	614	2665	<5	<20	48	<.01	<10	26	<10	<1	5076
9094 - 191	84779	60	1.0	.27	59	<2	<5	<5	3.15	<1	19	27	49	3.88	.09	37	1.01	715	3	<.01	4	923	78	<5	<20	82	<.01	<10	29	<10	<1	85
9094 - 192	84780	95	1.4	.30	39	<2	<5	8	3.11	<1	24	31	69	5.07	.08	47	1.21	621	4	<.01	9	936	62	<5	<20	81	<.01	<10	43	<10	<1	82
9094 - 193	84781	105	1.0	.29	15	<2	<5	<5	2.86	4	26	21	57	5.38	.05	49	1.27	531	2	.03	1	883	126	<5	<20	101	<.01	<10	46	<10	<1	707
9094 - 194	84782	15	<.2	.38	18	<2	<5	<5	3.81	<1	23	40	48	5.29	.10	51	1.51	649	3	.02	4	1039	36	<5	<20	118	<.01	<10	59	<10	<1	310
9094 - 195	84783	30	.3	.36	41	<2	<5	<5	4.20	2	26	26	86	5.26	.12	49	1.80	801	2	<.01	7	1251	94	<5	<20	117	<.01	<10	53	<10	<1	389
9094 - 196	84784	55	.7	.28	80	<2	<5	<5	3.41	<1	22	22	200	4.59	.08	42	1.48	758	3	<.01	6	840	22	<5	<20	95	<.01	<10	33	<10	<1	40
9094 - 197	84785	275	5.3	.34	66	<2	<5	<5	3.69	16	26	26	154	7.11	.12	65	1.44	917	4	<.01	5	1309	1370	<5	<20	109	<.01	<10	27	<10	<1	1830
9094 - 198	84786	150	.6	.32	106	<2	<5	<5	3.67	3	22	30	75	5.05	.10	47	.85	890	3	<.01	7	1110	72	<5	<20	78	<.01	<10	25	<10	<1	449
9094 - 199	84787	35	.7	.28	63	<2	<5	<5	4.39	<1	23	23	56	5.18	.09	49	1.59	1509	2	<.01	9	851	13	<5	<20	103	<.01	<10	30	<10	<1	57
9094 - 200	84788	55	1.0	.28	77	<2	<5	<5	3.05	<1	25	37	77	3.64	.10	33	1.00	824	5	<.01	5	916	86	<5	<20	62	<.01	<10	18	<10	<1	28
9094 - 201	84789	20	<.2	.31	62	<2	<5	<5	3.42	<1	35	26	85	4.90	.09	46	1.48	780	3	<.01	9	1036	10	<5	<20	80	<.01	<10	54	<10	<1	25
9094 - 202	84790	20	<.2	.29	20	<2	<5	<5	3.05	<1	22	21	24	4.50	.11	40	1.41	685	2	<.01	5	768	10	<5	<20	70	<.01	<10	35	<10	<1	27

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETS 90-9094

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ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9094 - 203	84791	205	2.3	.24	117	<2	<5	<5	2.38	17	37	36	234	4.35	.06	36	1.07	604	7	.02	5	848	159	5	<20	53	<.01	<10	16	<10	<1	1711
9094 - 204	84792	15	<.2	.43	<5	<2	22	<5	3.69	<1	16	18	20	4.47	.16	66	1.68	1078	4	<.01	3	1083	8	<5	<20	57	<.01	<10	58	<10	<1	59
9094 - 205	84793	20	1.0	.32	27	<2	<5	<5	3.05	<1	38	25	18	5.52	.12	48	1.76	754	3	<.01	5	827	10	<5	<20	61	<.01	<10	59	<10	<1	41
9094 - 206	84794	75	1.2	.28	55	<2	<5	<5	3.54	<1	30	28	55	4.83	.08	41	1.95	787	3	<.01	6	349	9	<5	<20	55	<.01	<10	59	<10	<1	57
9094 - 207	84795	25	1.0	.25	60	<2	<5	<5	2.17	<1	24	33	51	5.39	.06	43	1.27	596	3	.02	6	255	15	<5	<20	55	<.01	<10	47	<10	<1	44
9094 - 208	84796	275	1.1	.26	46	<2	<5	<5	2.26	1	23	39	23	4.58	.09	38	1.04	518	5	<.01	6	776	116	<5	<20	44	<.01	<10	27	<10	<1	319
9094 - 209	84797	15	1.3	.32	47	<2	<5	<5	3.08	2	32	35	106	6.30	.10	55	1.52	817	3	<.01	9	860	201	<5	<20	79	<.01	<10	52	<10	<1	426
9094 - 210	84798	10	<.2	.30	21	<2	<5	<5	3.17	<1	26	26	12	5.58	.08	49	1.46	711	3	<.01	6	912	51	<5	<20	73	<.01	<10	42	<10	<1	77
9094 - 211	84799	15	<.2	.51	11	<2	<5	<5	1.52	<1	23	30	94	4.82	.10	38	1.41	449	3	.06	5	797	13	<5	<20	75	<.01	<10	57	<10	<1	28
9094 - 212	84800	290	.6	.29	36	<2	<5	<5	2.82	<1	22	33	48	4.94	.10	40	1.42	646	3	.01	5	826	13	<5	<20	68	<.01	<10	37	<10	<1	98

NOTE: < = LESS THAN

FAX:F. HEWITT 689-5041
cc: DAVID VISAGIE C/O. NORTHAIR GROUP

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

SC90/CARMAC

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 20, 1990

CERTIFICATE OF ANALYSIS ETS-9094

CARMAC RESOURCES
C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

A S S A Y S

SAMPLE IDENTIFICATION: 212 CORE samples received SEPTEMBER 8, 1990

ET#	Description	AU ((G/T)	AU (OZ/T)	ZN (%)
9094 - 51	83501	1.08	.031	
9094 - 62	83512	1.51	.044	1.92

NOTE: < = LESS THAN
> = GREATER THAN

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. Certified Assayer

FAX:F. HEWITT 689-5041
cc: DAVID VISAGIE C/O NORTHAIR GROUP

SC90/CARMAC

ECO-TECH LABORATORIES LTD.

10041 EAST TRANS CANADA HWY.
KAMLOOPS, B.C. V2C 2J3
PHONE - 604-573-5700
FAX - 604-573-4557

CARMAC RESOURCES - ETS 90-9108

C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

SEPTEMBER 24, 1990

VALUES IN PPM UNLESS OTHERWISE REPORTED

91 CORE SAMPLES RECEIVED SEPTEMBER 10, 1990

ETS	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9108 - 1	83613	45	1.3	.68	33	<2	39	<5	2.98	<1	24	41	59	7.36	.13	122	1.14	626	6	<.01	19	1557	6	<5	<20	28	<.01	<10	36	<10	<1	29
9108 - 2	83614	50	.4	.42	33	<2	39	<5	4.94	<1	13	10	15	3.98	.18	78	1.16	3234	3	<.01	1	1684	3	<5	<20	54	<.01	<10	34	<10	<1	71
9108 - 3	83615	5	.3	.40	21	<2	39	<5	4.98	<1	13	7	22	4.61	.18	90	1.58	3797	3	<.01	2	1632	<2	<5	<20	59	<.01	<10	37	<10	<1	99
9108 - 4	83616	45	.4	.34	50	<2	30	<5	5.58	<1	14	9	13	4.49	.14	86	1.30	3204	2	<.01	<1	1496	<2	<5	<20	39	<.01	<10	26	<10	<1	71
9108 - 5	83617	5	.2	.36	15	<2	108	<5	4.93	<1	12	6	11	4.50	.17	86	1.51	3315	2	<.01	<1	1552	<2	<5	<20	54	<.01	<10	30	<10	<1	51
9108 - 6	83618	5	<.2	.40	9	<2	297	<5	4.14	<1	11	3	11	4.16	.18	80	1.22	2744	2	<.01	1	1599	<2	<5	<20	71	<.01	<10	34	<10	<1	50
9108 - 7	83619	5	<.2	.36	6	<2	388	<5	4.21	<1	13	2	26	4.10	.19	79	1.34	2456	2	<.01	<1	1620	<2	<5	<20	86	<.01	<10	32	<10	<1	47
9108 - 8	83620	10	.2	.44	9	<2	120	<5	4.31	<1	15	2	18	5.17	.20	96	1.23	2771	2	<.01	2	1565	<2	<5	<20	67	<.01	<10	35	<10	<1	79
9108 - 9	83621	5	.3	.42	31	<2	24	<5	4.35	<1	14	4	16	4.02	.18	75	.89	1911	6	<.01	2	1596	6	<5	<20	83	<.01	<10	25	<10	<1	53
9108 - 10	83622	850	4.3	.35	515	<2	26	<5	4.71	3	13	4	14	5.39	<.01	92	.47	1822	6	<.01	<1	1215	9	52	<20	39	<.01	<10	8	<10	<1	48
9108 - 11	83623	765	3.3	.12	55	<2	<5	<5	18.44	<1	2	6	8	1.26	.03	28	.52	7385	<1	<.01	<1	407	<2	<5	<20	48	<.01	<10	3	<10	<1	38
9108 - 12	83624	>1000	3.6	.06	114	<2	7	<5	20.20	<1	2	8	14	1.68	<.01	36	1.00	9131	2	<.01	1	190	<2	12	<20	<1	<.01	<10	3	<10	<1	92
9108 - 13	83625	340	1.5	.17	107	<2	7	<5	14.23	<1	5	3	8	2.44	.04	47	.79	7165	3	<.01	<1	605	<2	<5	<20	62	<.01	<10	3	<10	<1	42
9108 - 14	83626	55	.6	.32	58	<2	15	<5	4.39	<1	12	1	13	3.82	.13	67	.36	1819	3	<.01	1	1268	5	<5	<20	99	<.01	<10	4	<10	<1	62
9108 - 15	83627	70	1.2	.31	95	<2	20	<5	5.04	<1	12	2	14	3.98	.12	69	.28	1546	3	<.01	1	1296	5	<5	<20	79	<.01	<10	4	<10	<1	62
9108 - 16	83628	90	.8	.32	125	<2	11	<5	4.10	<1	15	2	27	3.75	.11	66	.52	1675	3	<.01	2	1481	5	8	<20	94	<.01	<10	10	<10	<1	67
9108 - 17	83629	70	1.0	.34	91	<2	17	<5	4.09	<1	16	1	23	4.26	.13	75	.67	1738	4	.01	2	1498	4	6	<20	99	<.01	<10	12	<10	<1	74
9108 - 18	83630	740	3.4	.23	193	<2	10	<5	7.35	<1	10	7	14	3.47	.04	59	.31	3439	4	<.01	1	928	9	6	<20	67	<.01	<10	3	<10	<1	70
9108 - 19	83631	450	1.7	.32	333	<2	15	<5	3.01	2	14	2	19	4.18	.04	71	.50	2239	3	<.01	2	1393	7	5	<20	54	<.01	<10	5	<10	<1	67
9108 - 20	83632	135	.8	.55	51	<2	58	<5	4.79	<1	15	4	20	3.65	.15	67	.79	2098	9	<.01	3	1271	5	<5	<20	91	<.01	<10	20	<10	<1	53
9108 - 21	83633	5	.2	1.58	29	<2	229	<5	4.12	<1	10	3	18	3.30	.17	62	1.00	1613	2	<.01	1	1310	7	<5	<20	108	<.01	<10	24	<10	<1	61
9108 - 22	83634	10	.5	1.17	49	<2	25	<5	4.56	<1	12	2	19	3.62	.15	66	.76	1699	2	<.01	2	1384	8	<5	<20	98	<.01	<10	19	<10	<1	68
9108 - 23	83635	130	.9	.73	194	<2	17	<5	4.61	<1	13	2	16	3.77	.11	68	.90	1923	2	<.01	2	1279	7	<5	<20	83	<.01	<10	14	<10	<1	67
9108 - 24	83636	10	.4	.86	24	<2	90	<5	4.37	<1	10	2	19	3.22	.18	61	1.01	1935	2	<.01	2	1363	5	<5	<20	101	<.01	<10	19	<10	<1	58
9108 - 25	83637	10	.6	.51	47	<2	20	<5	5.97	<1	12	<1	19	3.14	.18	60	.73	2554	1	<.01	2	1324	4	<5	<20	87	<.01	<10	17	<10	<1	39
9108 - 26	83638	5	.5	.94	41	<2	23	<5	5.41	<1	13	2	17	3.77	.20	69	.72	2472	2	<.01	2	1349	5	<5	<20	107	<.01	<10	18	<10	<1	44

ECO-TECH LABORATORIES LTD. CARMAC RESOURCES - ETS 90-9108

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ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9108 - 27	83639	155	.8	.73	96	<2	10	<5	5.98	<1	12	<1	21	3.23	.14	63	.95	2714	2	<.01	2	1463	5	<5	<20	147	<.01	<10	16	<10	<1	62
9108 - 28	83640	80	1.3	.32	226	<2	15	<5	4.62	<1	15	3	15	4.52	.09	78	.62	1912	2	<.01	2	1272	8	5	<20	81	<.01	<10	6	<10	<1	51
9108 - 29	83641	225	2.0	.45	271	<2	18	<5	5.73	<1	20	<1	39	4.47	.08	79	.79	2743	2	<.01	3	1387	6	5	<20	93	<.01	<10	22	<10	<1	61
9108 - 30	83642	180	2.9	.38	343	<2	19	<5	5.72	1	20	2	33	4.75	.05	81	.75	2936	2	<.01	2	1352	5	8	<20	88	<.01	<10	20	<10	<1	51
9108 - 31	83643	390	3.3	.30	434	<2	20	<5	7.03	2	18	2	28	4.34	<.01	76	.58	3667	2	<.01	3	1335	4	<5	<20	92	<.01	<10	11	<10	<1	45
9108 - 32	83644	200	3.7	.31	349	<2	10	<5	6.67	2	19	5	33	4.56	.03	79	.20	2883	3	<.01	3	1391	11	10	<20	133	<.01	<10	8	<10	<1	44
9108 - 33	83645	190	2.8	.50	305	<2	11	<5	7.20	1	20	<1	42	4.32	.05	74	.48	3222	2	<.01	3	1358	6	8	<20	104	<.01	<10	18	<10	<1	37
9108 - 34	83646	75	.9	1.20	265	<2	45	<5	4.45	<1	25	3	39	7.40	.04	117	.89	1595	3	.02	3	1341	6	21	<20	102	<.01	<10	100	<10	<1	41
9108 - 35	83647	40	.5	1.49	131	<2	33	<5	5.61	<1	21	2	42	5.14	.15	87	1.08	2034	3	<.01	3	1399	7	<5	<20	106	<.01	<10	95	<10	<1	47
9108 - 36	83648	10	<.2	1.69	49	<2	68	<5	4.73	<1	20	5	38	4.83	.14	81	1.29	1518	3	<.01	3	1447	6	<5	<20	107	<.01	<10	127	<10	<1	45
9108 - 37	83649	30	.2	1.62	148	<2	36	<5	4.91	<1	22	1	43	5.13	.12	87	1.05	1613	2	<.01	3	1502	7	<5	<20	108	<.01	<10	119	<10	<1	54
9108 - 38	83650	390	1.3	.28	377	<2	29	<5	7.23	1	14	7	15	5.69	<.01	92	2.15	4230	8	<.01	<1	587	3	7	<20	68	<.01	<10	11	<10	<1	26
9108 - 39	83652	60	1.2	.93	188	<2	17	<5	4.90	<1	21	<1	42	4.53	.11	77	.76	1912	3	<.01	3	1527	7	<5	<20	74	<.01	<10	30	<10	<1	64
9108 - 40	83653	5	.5	1.49	42	<2	27	<5	3.71	<1	20	<1	26	4.90	.21	80	.92	1380	3	.03	3	1150	12	<5	<20	101	<.01	<10	35	<10	<1	53
9108 - 41	83654	10	.2	1.60	31	<2	43	<5	4.78	<1	12	<1	5	3.87	.22	74	1.11	2058	1	<.01	<1	1894	5	<5	<20	80	<.01	<10	36	<10	1	53
9108 - 42	83655	20	.8	1.37	33	<2	17	<5	5.05	<1	13	<1	6	3.69	.18	67	.89	2048	1	<.01	1	1729	7	<5	<20	61	<.01	<10	25	<10	<1	45
9108 - 43	83656	265	2.1	1.15	87	<2	16	<5	3.95	<1	15	<1	9	4.50	.14	75	.70	1691	2	.04	<1	1567	15	<5	<20	77	<.01	<10	30	<10	<1	69
9108 - 44	83657	25	.5	1.81	38	<2	27	<5	2.92	<1	16	<1	7	4.98	.14	81	1.11	1180	2	.04	<1	1639	16	<5	<20	65	<.01	<10	51	<10	<1	74
9108 - 45	83658	45	.2	1.73	29	<2	51	<5	4.13	<1	13	<1	9	3.74	.16	67	1.09	1413	1	.01	<1	1608	9	<5	<20	75	<.01	<10	48	<10	<1	65
9108 - 46	83659	5	.3	.41	10	<2	29	<5	4.63	<1	10	<1	11	3.60	.18	65	1.46	3096	2	<.01	<1	1478	<2	<5	<20	38	<.01	<10	29	<10	<1	46
9108 - 47	83660	5	.2	.48	19	<2	48	<5	4.76	<1	16	1	15	5.06	.21	88	1.60	3654	3	<.01	<1	1721	3	7	<20	52	<.01	<10	43	<10	<1	62
9108 - 48	83661	65	.3	.52	83	<2	35	<5	4.64	<1	16	2	19	4.67	.20	80	.88	2888	4	<.01	5	1896	7	9	<20	46	<.01	<10	28	<10	<1	75
9108 - 49	83662	35	.3	.43	37	<2	48	<5	4.80	<1	11	1	22	4.44	.18	76	1.25	3038	2	<.01	<1	1494	3	<5	<20	63	<.01	<10	29	<10	<1	57
9108 - 50	83663	5	<.2	.46	11	<2	379	<5	4.50	<1	12	2	12	3.93	.22	70	1.37	2884	2	<.01	1	1491	2	7	<20	85	<.01	<10	34	<10	<1	54
9108 - 51	83664	5	<.2	.43	11	<2	609	<5	4.25	<1	9	1	18	3.21	.20	58	1.17	2415	<1	<.01	2	1404	<2	<5	<20	90	<.01	<10	30	<10	<1	40
9108 - 52	83665	5	.2	.45	32	<2	45	<5	5.48	<1	16	1	20	4.59	.21	79	1.11	3052	3	<.01	2	1630	5	8	<20	100	<.01	<10	30	<10	<1	69
9108 - 53	83666	460	6.4	.33	187	<2	21	<5	7.42	<1	14	<1	28	4.03	.09	66	.38	3485	3	<.01	2	1269	10	17	<20	143	<.01	<10	6	<10	<1	90
9108 - 54	83667	240	3.4	.30	286	<2	20	<5	11.03	<1	11	2	14	3.14	.04	54	.44	4329	1	<.01	<1	1122	4	11	<20	116	<.01	<10	5	<10	<1	58
9108 - 55	83668	75	2.8	.39	91	<2	14	<5	3.82	<1	13	3	22	4.20	.14	65	.21	1427	3	<.01	2	1322	12	8	<20	49	<.01	<10	5	<10	<1	53
9108 - 56	83669	160	3.6	.35	117	<2	18	<5	6.36	<1	11	6	20	3.80	.12	61	.26	3054	3	<.01	2	1097	12	6	<20	105	<.01	<10	5	<10	<1	131
9108 - 57	83670	70	1.9	.40	82	<2	25	<5	4.97	<1	14	<1	17	4.22	.16	67	.20	1625	3	<.01	2	1377	9	5	<20	69	<.01	<10	5	<10	<1	75
9108 - 58	83671	25	.7	.42	46	<2	32	<5	6.02	<1	11	5	16	3.71	.20	57	.24	1555	3	<.01	2	1118	5	<5	<20	109	<.01	<10	5	<10	<1	62
9108 - 59	83672	40	.3	.44	55	<2	22	<5	3.54	<1	14	2	18	4.04	.17	61	.34	1274	3	<.01	3	1273	7	<5	<20	73	<.01	<10	7	<10	<1	71
9108 - 60	83673	320	3.0	.32	195	<2	19	<5	8.01	<1	11	4	20	3.21	.10	52	1.04	3779	5	<.01	2	1034	7	10	<20	92	<.01	<10	10	<10	<1	39
9108 - 61	83674	200	.5	.35	139	<2	43	<5	4.85	<1	12	2	18	3.72	.15	60	.95	3235	1	<.01	4	1252	2	6	<20	92	<.01	<10	19	<10	<1	49
9108 - 62	83675	310	.7	.37	151	<2	34	<5	4.83	<1	9	3	20	2.86	.16	48	.84	2597	1	<.01	2	1266	3	8	<20	108	<.01	<10	14	<10	<1	64
9108 - 63	83676	>1000	1.5	.35	507	<2	26	<5	5.25	2	13	2	27	4.72	.01	73	.98	2867	1	<.01	1	1158	4	14	<20	94	<.01	<10	11	<10	<1	87

ECO-TECH LABORATORIES LTD.

CARMAC RESOURCES - ETS 90-9108

PAGE 3

ET#	DESCRIPTION	AU(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)	K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN
9108 - 64	83677	140	<.2	.39	161	<2	50	<5	4.64	<1	11	4	24	3.40	.17	55	.70	2671	2	<.01	4	1305	3	<5	<20	97	<.01	<10	18	<10	<1	67
9108 - 65	83678	>1000	3.7	.35	219	<2	16	<5	5.50	<1	16	3	22	3.89	.11	61	.66	2276	3	<.01	2	1268	15	12	<20	80	<.01	<10	10	<10	<1	79
9108 - 66	83679	60	.2	.62	30	<2	203	<5	4.97	<1	13	3	22	3.63	.22	61	.84	2123	1	<.01	1	1303	4	<5	<20	144	<.01	<10	19	<10	<1	61
9108 - 67	83680	10	.2	.88	26	<2	383	<5	4.91	<1	13	2	24	3.50	.21	59	.90	1920	1	<.01	2	1338	5	<5	<20	161	<.01	<10	18	<10	<1	61
9108 - 68	83681	40	1.3	.36	185	<2	22	<5	5.78	<1	12	2	15	4.14	.14	66	1.35	2928	2	<.01	2	1199	5	6	<20	108	<.01	<10	10	<10	<1	63
9108 - 69	83682	85	.8	.35	137	<2	21	<5	4.27	<1	12	3	16	3.35	.17	54	.64	2330	2	<.01	2	1288	4	<5	<20	97	<.01	<10	12	<10	<1	69
9108 - 70	83683	140	1.9	.26	105	<2	18	<5	11.85	<1	7	2	19	2.38	.12	41	.76	4904	<1	<.01	<1	848	<2	5	<20	80	<.01	<10	10	<10	<1	60
9108 - 71	83684	>1000	1.3	.41	192	<2	22	<5	5.38	<1	12	2	25	3.33	.20	55	.66	3979	1	<.01	2	1415	4	7	<20	98	<.01	<10	13	<10	<1	64
9108 - 72	83685	510	1.2	.45	206	<2	26	<5	4.50	<1	13	2	24	3.24	.19	55	.99	2603	2	<.01	2	1514	6	8	<20	92	<.01	<10	15	<10	2	60
9108 - 73	83686 A	840	2.4	.35	336	<2	16	<5	9.20	1	12	9	41	3.18	.07	51	.70	4583	2	<.01	2	993	22	7	<20	108	<.01	<10	7	<10	<1	122
9108 - 74	83686 B	530	1.8	.31	298	<2	15	<5	9.71	1	12	3	18	3.28	.05	53	1.07	5167	4	<.01	2	1042	3	10	<20	142	<.01	<10	7	<10	<1	49
9108 - 75	83687	625	2.8	.29	438	<2	22	<5	5.16	2	14	6	36	3.87	<.01	57	.48	2623	8	<.01	3	1046	16	6	<20	53	<.01	<10	7	<10	<1	81
9108 - 76	83688	700	2.0	.33	375	<2	22	<5	6.21	1	18	2	22	4.41	.04	67	1.01	3941	3	<.01	1	1138	6	11	<20	37	<.01	<10	9	<10	<1	40
9108 - 77	83689	555	2.2	.37	440	<2	25	<5	5.77	2	21	2	43	4.86	.05	73	.77	3371	2	<.01	4	1423	7	8	<20	67	<.01	<10	15	<10	<1	106
9108 - 78	83690	450	1.1	.40	163	<2	21	<5	6.80	<1	16	<1	70	2.47	.18	45	.43	2924	1	<.01	3	1701	3	<5	<20	131	<.01	<10	20	<10	5	61
9108 - 79	83691	195	1.6	.42	250	<2	14	<5	6.33	<1	22	2	39	4.13	.12	66	.87	3062	3	<.01	3	1521	7	13	<20	107	<.01	<10	24	<10	<1	50
9108 - 80	83692	970	1.2	.53	219	<2	23	<5	6.59	<1	19	3	46	4.37	.13	69	1.69	3598	2	<.01	3	1349	5	12	<20	118	<.01	<10	34	<10	<1	48
9108 - 81	83693	>1000	1.2	.53	196	<2	28	<5	5.85	<1	23	2	50	4.28	.15	67	1.36	2912	2	<.01	6	1519	6	7	<20	106	<.01	<10	39	<10	<1	60
9108 - 82	83694	395	3.1	.36	507	<2	29	<5	5.58	1	22	6	39	5.61	<.01	80	.38	2224	3	<.01	4	1359	11	10	<20	78	<.01	<10	10	<10	<1	48
9108 - 83	83695	200	4.4	.33	445	<2	20	<5	5.13	2	17	8	29	4.18	.01	61	.32	2087	3	<.01	3	1239	8	10	<20	75	<.01	<10	9	<10	<1	29
9108 - 84	83696	315	3.7	.34	489	<2	26	<5	7.38	2	17	5	26	4.35	<.01	65	.24	3056	2	<.01	2	1211	9	7	<20	105	<.01	<10	9	<10	<1	13
9108 - 85	83697	260	3.5	.53	530	<2	23	<5	6.29	2	25	3	51	5.40	.09	80	.38	2155	2	<.01	4	1667	12	14	<20	116	<.01	<10	14	<10	<1	66
9108 - 86	83698	295	5.5	.39	715	<2	47	<5	4.70	2	27	8	43	8.18	<.01	109	.27	1456	4	<.01	4	1245	19	21	<20	78	<.01	<10	10	<10	<1	53
9108 - 87	83699	5	<.2	2.18	43	<2	42	<5	5.61	<1	22	2	43	5.70	.15	86	1.79	1874	2	<.01	3	1430	9	<5	<20	82	<.01	<10	57	<10	<1	66
9108 - 88	83700	5	<.2	2.50	50	<2	46	<5	5.99	<1	23	3	41	6.22	.13	93	2.13	2214	2	<.01	4	1347	10	<5	<20	70	<.01	<10	70	<10	<1	65
9108 - 89	28351	15	<.2	1.05	28	<2	34	<5	2.24	<1	18	1	33	4.74	.22	66	.62	809	<1	.13	3	798	16	<5	<20	102	<.01	<10	17	<10	<1	51
9108 - 90	28352	5	<.2	2.10	46	<2	56	<5	4.67	<1	14	<1	8	4.06	.18	67	1.36	1644	1	.03	<1	1803	11	<5	<20	114	<.01	<10	37	<10	<1	63
9108 - 91	28353	210	.6	2.04	96	<2	35	<5	4.43	<1	17	1	7	5.08	.17	77	1.33	1884	3	.04	<1	1608	16	<5	<20	114	<.01	<10	40	<10	<1	63

NOTE: < = LESS THAN

FAX:F. HEWITT 689-5041
G. CLOUTHIER
D. VISAGE 636-2363

SC90/CARMAC

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. CERTIFIED ASSAYER

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

OCTOBER 26, 1990

CERTIFICATE OF ANALYSIS ETS 90-535A/9108A/9094A

CARMAC RESOURCES
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

SAMPLE IDENTIFICATION: CHECK WORK ON JOBS 535,9108,9094 AS REQUESTED

ET#	Description	AU (ppb)
535 - 1	84706	180
535 - 17	84722	<5
9108 - 13	83625	270
9108 - 34	83646	85
9108 - 63	83676	>1000
9108 - 71	83684	>1000
9094 - 51	83501	>1000
9094 - 59	83509	290
9094 - 62	83512	>1000
9094 - 189	84777	110

NOTE: > = Greater Than
< = Less Than

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. Certified Assayer

SC90/CARMAC

ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

OCTOBER 26, 1990

CERTIFICATE OF ASSAY ETS 90-535A/9108A/9094A

CARMAC RESOURCES
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

A S S A Y S

SAMPLE IDENTIFICATION: CHECK WORK ON JOBS 535,9108,9094 AS REQUESTED

ET#	Description	AU (g/t)	AU (oz/t)
9108 - 63	83676	1.49	.043
9108 - 71	83684	1.04	.030
9094 - 51	83501	1.01	.029
9094 - 62	83512	1.36	.040

Jutta Jealouse

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. Certified Assayer

SC90/CARMAC2

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

SEPTEMBER 24, 1990

CERTIFICATE OF ANALYSIS ETS 90-9108

CARMAC RESOURCES
C/O NORTHAIR GROUP
860, 625 HOWE STREET
VANCOUVER, B.C.
V6C 2T6

A S S A Y S

SAMPLE IDENTIFICATION: 91 CORE samples received SEPTEMBER 10, 1990

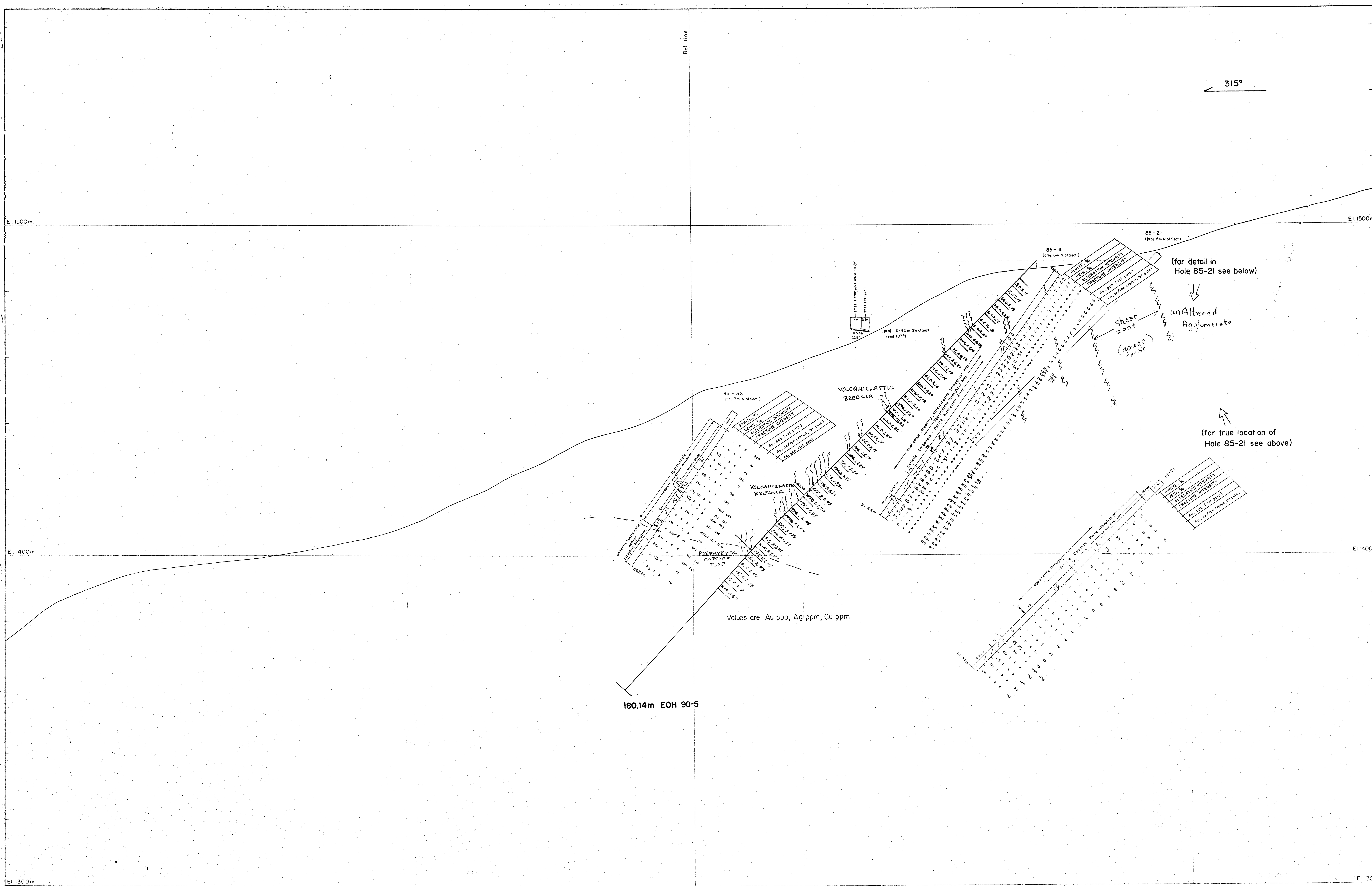
ET#	Description		AU (g/t)	AU (oz/t)
9108 -	12	83624	1.16	.034
9108 -	63	83676	1.49	.043
9108 -	65	83678	1.99	.058
9108 -	71	83684	1.09	.032
9 -	81	83693	1.44	.042

NOTE: > = GREATER THAN

ECO-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. Certified Assayer

FAX:F. HEWITT 689-5041
G. CLOUTHIER
D. VISAGE 636-2363
cc: DAVID VISAGIE C/O NORTHAIR GROUP
GERRY CLOUTHIER

SC90/CARMAC



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,287

FIGURE Nº 9

CARMAC RESOURCES LTD
HANK CLAIM GROUP

CROSS SECTION 240m.
(LOOKING N.E.)
CREEKS 5,6,7,8 AND CAMP 3 AREA
HOLE 90-5

SCALE 1:400	N.T.S. 104 G/1,2
	REVISED
DRAWN BY: R.TURNA, Y.SO, R.BROWN, CHEUNG	DATE: JAN 1986

PLANE OF CROSS SECTION STRIKES 315°

HANK NUMBER	WIDTH (m)	Au, ppb	Au, opt
2724	4	620	
2725	2	>10,000	0.400 (visible Au)
4062	2	70	
4063	3	118	
4064	4	380	
4065	5	320	
4066		240	
30026		380	0.011
F	12	580	0.020
E	0.5	1950	0.050
D	1.5	6000	0.156
C	0.15	1250	0.036
B	0.7	120	0.002
30024	1.7	75	0.002

Ref. line

315°

El. 1500m.

El. 1400m

El. 1300m

(for true location of Hole 85-9 see below)

(for detail in Hole 85-9 see above)

(for true location of Hole 87-1 see above)

(for detail in Hole 87-1 see below)

Contact

Altered Agglomerate

unAltered Porphyritic Andesite

152.4m EOH 90-4

PLANE OF CROSS SECTION STRIKES 315°

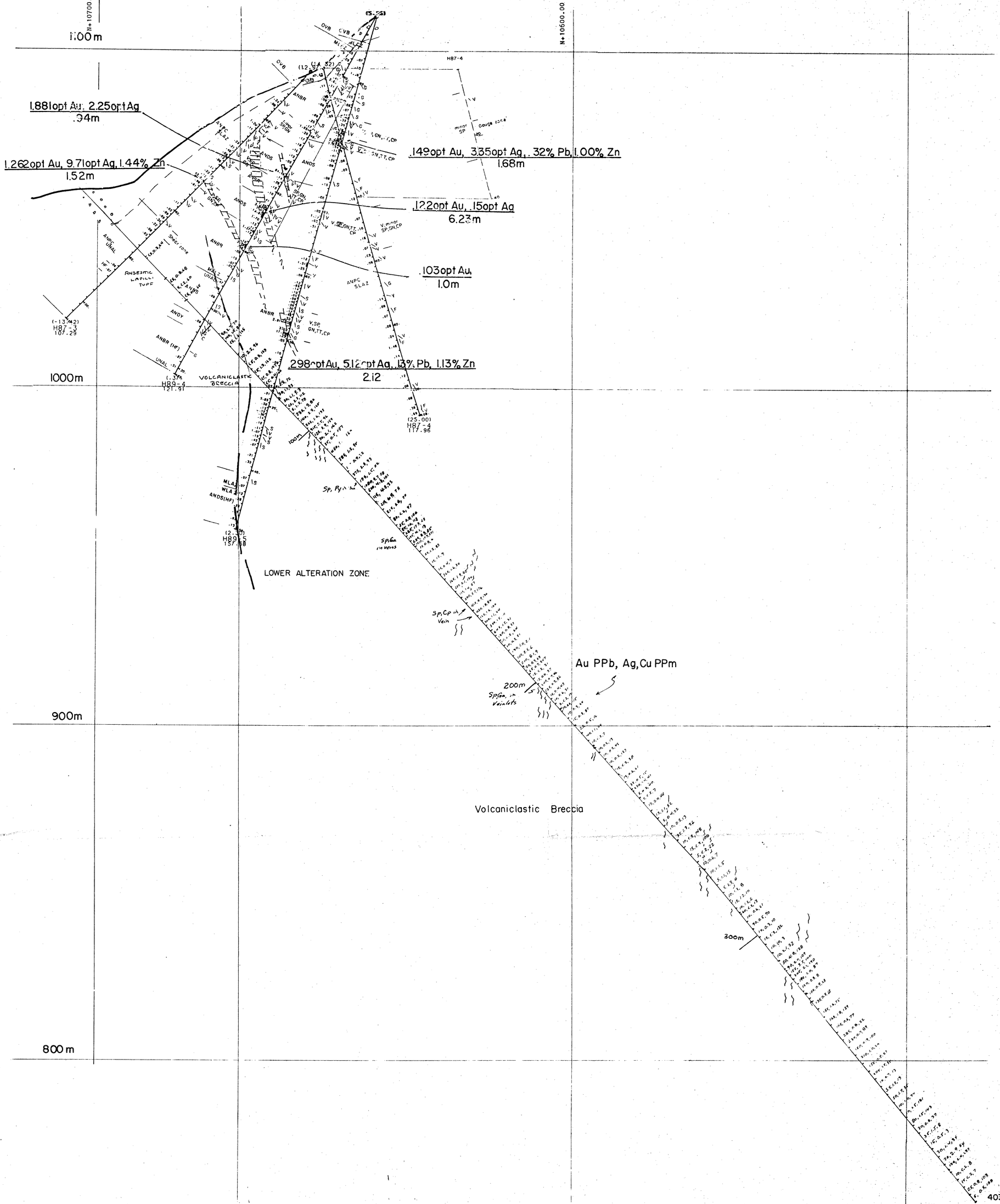
GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,287

NOTE : In Jan. 1989, Au oz/ton (rejects) were added for analyses performed in 1988.

FIGURE Nº 8

CARMAC RESOURCES LTD	
HANK CLAIM GROUP	
CROSS SECTION 200m. (LOOKING N.E.) CREEKS 5,6,7,8 AND CAMP 3 AREA HOLE 90-4	
SCALE 0 5 1:400 20 metres	N.T.S. 104G/1,2
	REVISED APRIL 91
DRAWN BY R.TURNA, Y.SO, R.BROWN, CHEUNG	DATE: APRIL 91



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,287

LEGEND.

GEOLOGY

ANBR	ANDESITE BRECCIA, intermediate basic volcanics, grey green to maroon colour, tuffaceous in part.
ANPC	ANDESITE PYROCLASTICS, ash tuff to agglomerate, pale green, feldspathic
ANDS	ANDESITE, lava flow crystalline andesite, fine to medium grained, weakly magnetic, green to maroon colour, sometimes porphyritic.
ANDY	ANDESITE DYKE, fine grained, dark green, grey.
LATT	LATITE, massive, fine grained, brown

STRUCTURE

/G	Gouge
/V	Vein
/S	Shear
/F	Fracture
/B	Bed
/C	Contact

ALTERATION

*SLAZ	Strongly altered rock.
*MLAZ	Moderately " "
*WLAZ	Weakly " "
UNAL	Unaltered rock
*LAZ	LOWER ALTERATION ZONE 1-5% pyrite, pervasive carbonate, and sericite, pale green minor silicification.

MINERALIZATION

Z.M.	ZONE OF MINERALIZATION, contains veins of carbonate, quartz and lesser barite with varing amounts of galena, sphalerite, chalcopyrite, tetrahedrite. Distinct veins, plus stockwork.
SP	Sphalerite
TT	Tetrahedrite
GN	Galena
BA	Barite vein
CP	Chalcopyrite
CB	Carbonate vein
QZ	Quartz vein
RH	Rhodochrosite vein

FIGURE Nº. 7

CARMAC RESOURES LIMITED

HANK CLAIMS, B.C.

GEOLOGY SECTION
950E
HOLE 90-3

1:500 0 10 20 40METRES

N.T.S. 104B-1,2 LIARD M.D., B.C.

D.V. APRIL 1991

E+9900.00 | 50.00 | N+10700.00 | 100.00 | 150.00 | E+10000.00 | 200.00 | N+10600.00 | 250.00 | 300.00 | E+10100.00 | 350.00 | N+10500.00

+1200.00

+1100.00

+1000.00

+900.00

.099opt Au
1.92m

(18.06)
H89-6
111.86

(15.80)
H89-7
101.20

LOWER
ALTERATION
ZONE

VOLCANICLASTIC
BRECCIA

100m

ANDESITIC
DYKE

VOLCANICLASTIC
BRECCIA

200m

Tr. Sp.

Tr. Cp

Tr. Ga, Sp

Minor Sp. Ga

VOLCANICLASTIC
BRECCIA

300m

Tr. Sp. Ga Qz

367.90m
E041 90-2

SECTION VIEW

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,287

LEGEND

GEOLOGY

ANBR	ANDESITE BRECCIA, intermediate basic volcanics, grey green to maroon colour, tuffaceous in part
ANPC	ANDESITE PYROCLASTICS, ash tuff to agglomerate, pale green, feldspathic
ANDS	ANDESITE, lava flow crystalline andesite, fine to medium grained, weakly magnetic, green to maroon colour, sometimes porphyritic
ANDY	ANDESITE DYKE, fine grained, dark green, grey
LATT	LATITE, massive, fine grained, brown

STRUCTURE

/G	Gouge
/V	Vein
/S	Shear
/F	Fracture
/B	Bed
/C	Contact

ALTERATION

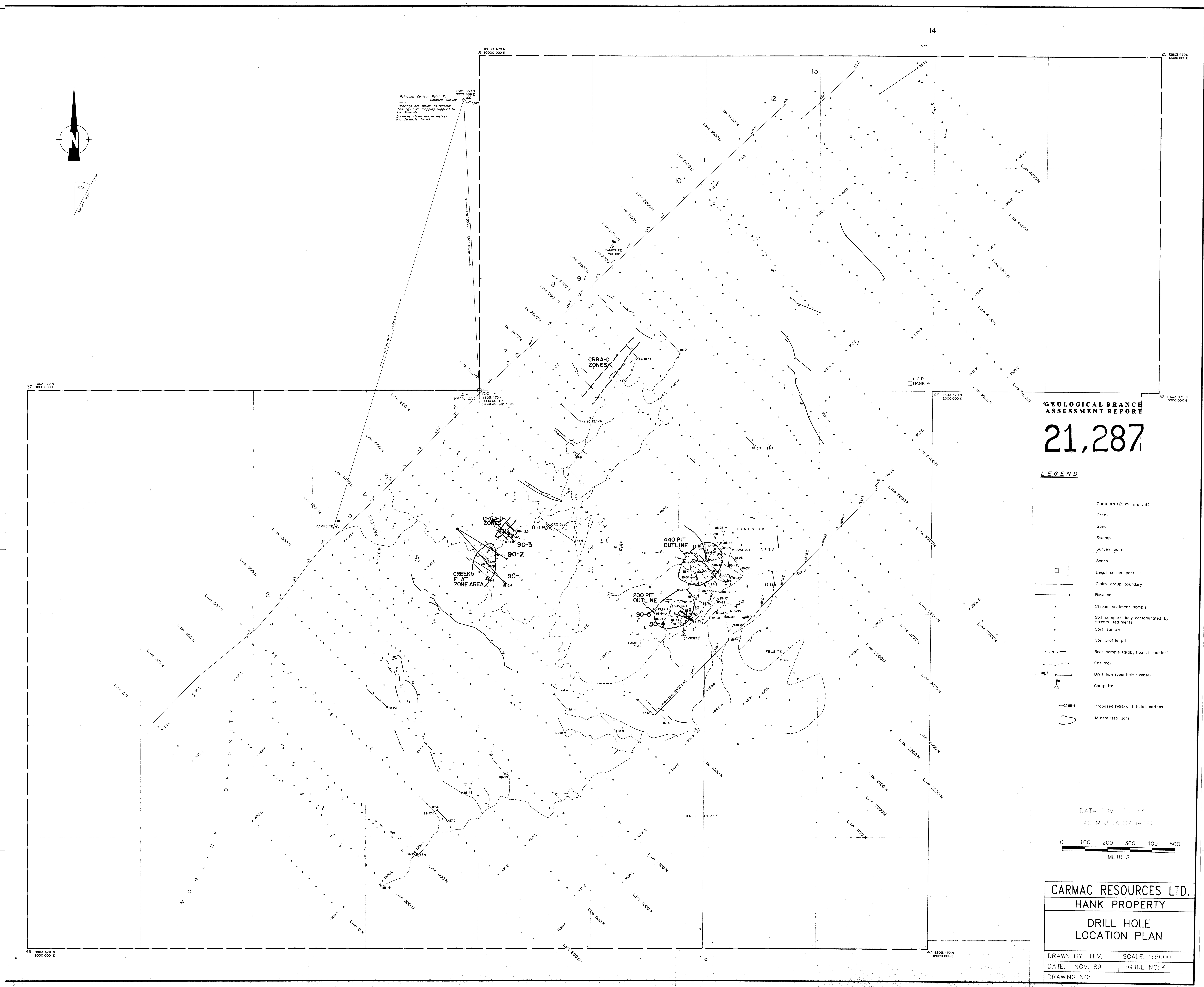
*SLAZ	Strongly altered rock
*MLAZ	Moderately " "
*WLAZ	Weakly " "
UNAL	Unaltered rock
*LAZ	LOWER ALTERATION ZONE 1-5% pyrite, pervasive carbonate, and sericite, pale green minor silicification.

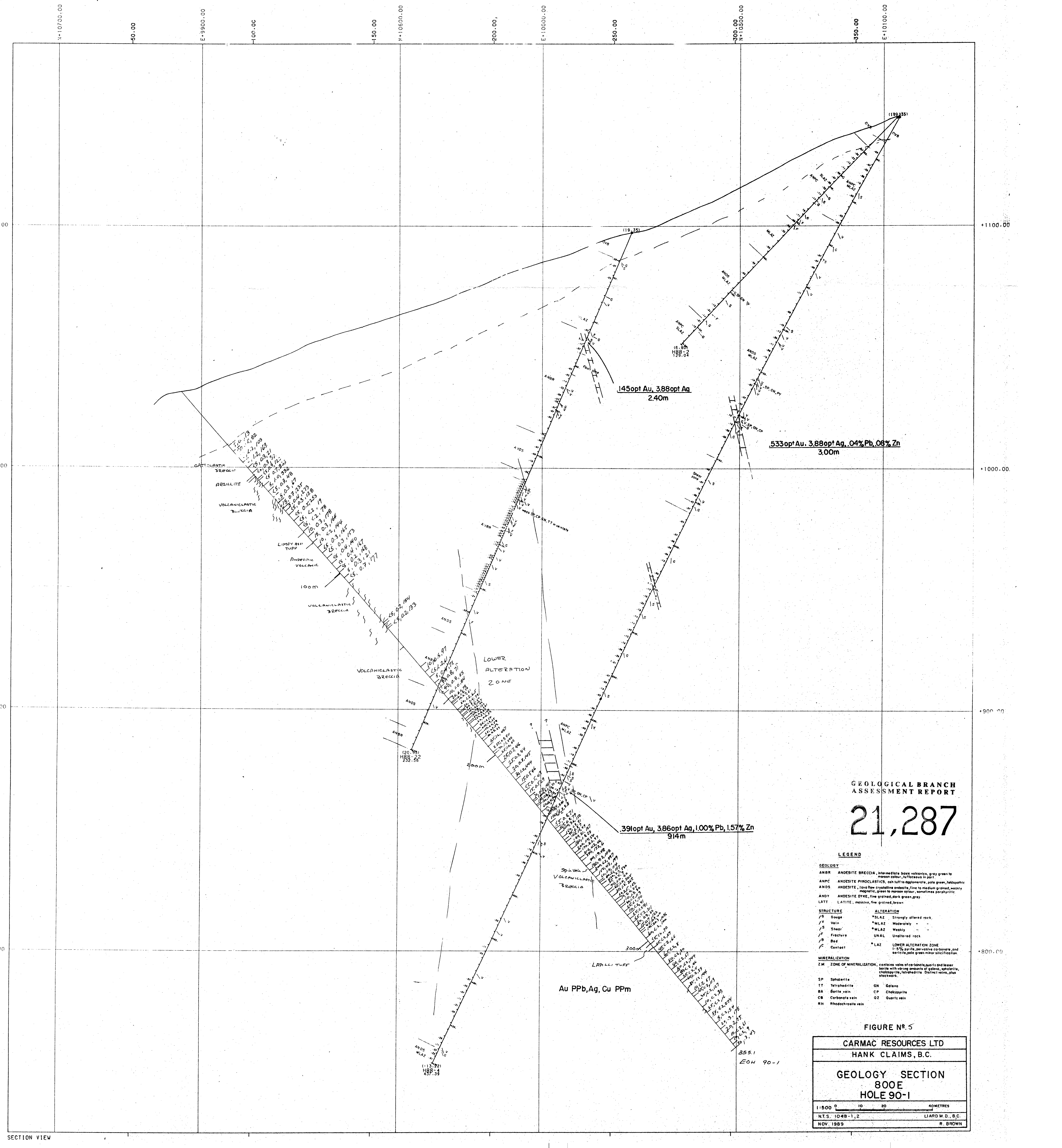
MINERALIZATION

ZM	ZONE OF MINERALIZATION, contains veins of carbonate, quartz and lesser barite with varing amounts of galena, sphalerite, chalcopyrite, tetrahedrite. Distinct veins, plus stockwork.
SP	Sphalerite
TT	Tetrahedrite
BA	Barite vein
CB	Carbonate vein
RH	Rhodochrosite vein
GN	Galena
CP	Chalcopyrite
QZ	Quartz vein

FIGURE Nº. 6

LAC MINERALS LTD.
HANK CLAIMS, B.C.
GEOLOGY SECTION 850E HOLE 90-2
1:500 0 10 20 40 METRES
N.T.S. 104B-1,2 — LIARD M.D., B.C.
NOV. 1989 — R. BROWN


GEOLOGICAL BRANCH
ASSESSMENT REPORT
21,287
LEGEND
Contours (20m interval)
Creek
Sand
Swamp
Survey point
Scarp
Legal corner post
Claim group boundary
Baseline
Stream sediment sample
Soil sample (likely contaminated by stream sediments)
Soil sample
Soil profile pit
Rock sample (grab, float, trenching)
Cat trail
Drill hole (year-hole number)
Campsite
Proposed 1990 drill hole locations
Mineralized zone
0 100 200 300 400 500
METRES
CARMAC RESOURCES LTD.
HANK PROPERTY
DRILL HOLE
LOCATION PLAN
DRAWN BY: H.V.
SCALE: 1:5000
DATE: NOV. 89
FIGURE NO: 4
DRAWING NO:
Principal Control Point For Detailed Survey
Bearings are scaled astronomic bearings from mapping supplied by Lac Minerals
Distances shown are in metres and decimals thereof
L.C.P. HANK 1,2,3
L.C.P. HANK 4
CR8 A-D ZONES
CR5A-D ZONES
CREEK5 FLAT ZONE AREA
440 PIT OUTLINE
200 PIT OUTLINE
LANDSLIDE AREA
FELSITE HILL
BALD BLUFF
CAMPSITE
RIVER GRAVELS
MORAINE DEPOSITS
UPPER GRID BASE LINE
90-1
90-2
90-3
90-4
90-5


N+10700.00
50.00
E+9900.00
100.00
150.00
N+10600.00
200.00
E+10000.00
250.00
300.00
N+10500.00
350.00
E+10100.00
+1100.00
+1000.00
+900.00
+800.00
(19.35)
(6.80)
H88-2
129.04
(20.93)
H88-22
232.56
(-13.22)
H88-4
437.39
.145opt Au, 3.88opt Ag
2.40m
.533opt Au, 3.88opt Ag, .04% Pb, .08% Zn
3.00m
.391opt Au, 3.86opt Ag, 1.00% Pb, 1.57% Zn
9.14m
CATACLASTIC BRECCIA
ARGILLITE
VOLCANICLASTIC BRECCIA
LIMEY ASH TUFF
ANDESITIC VOLCANIC
100m
200m
300m
LOWER ALTERATION ZONE
Sp in Vein
LAPILLI TUFF
Au PPb, Ag, Cu PPm
355.1
EOH 90-1
Fault zone
Shear zone
weak SP, CP, GN, TT in veinlets
GEOLOGICAL BRANCH
ASSESSMENT REPORT
21,287
LEGEND
GEOLOGY
ANBR ANDESITE BRECCIA, intermediate basic volcanics, grey green to maroon colour, tuffaceous in part.
ANPC ANDESITE PYROCLASTICS, ash tuff to agglomerate, pale green, feldspathic
ANDS ANDESITE, lava flow crystalline andesite, fine to medium grained, weakly magnetic, green to maroon colour, sometimes porphyritic.
ANDY ANDESITE DYKE, fine grained, dark green, grey.
LATT LATITE, massive, fine grained, brown
STRUCTURE
/G Gouge
/V Vein
/S Shear
/F Fracture
/B Bed
/C Contact
ALTERATION
*SLAZ Strongly altered rock
*MLAZ Moderately " "
*WLAZ Weakly " "
UNAL Unaltered rock
*LAZ LOWER ALTERATION ZONE 1-5% pyrite, pervasive carbonate, and sericite, pale green minor silicification.
MINERALIZATION
Z.M. ZONE OF MINERALIZATION, contains veins of carbonate, quartz and lesser barite with varing amounts of galena, sphalerite, chalcopyrite, tetrahedrite. Distinct veins, plus stockwork.
SP Sphalerite
TT Tetrahedrite
BA Barite vein
CB Carbonate vein
RH Rhodochrosite vein
GN Galena
CP Chalcopyrite
QZ Quartz vein
FIGURE No. 5
CARMAC RESOURCES LTD
HANK CLAIMS, B.C.
GEOLOGY SECTION
800E
HOLE 90-1
1:500 0 10 20 40 METRES
N.T.S. 104B-1,2
LIARD M.D., B.C.
NOV 1989
R. BROWN
SECTION VIEW