BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM MINISTRY OF ENERGY AND MINES GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:1997/1998REPORT #:PAP 97-27NAME:CATHERINE RIDLEY

REPORT TO THE

BC PROSPECTOR'S ASSISTANCE PROGRAM

REFERENCE NUMBER 97/98 P66

ON ACTIVITIES CARRIED OUT

IN THE CARIBOO MINING DIVISION

QUESNEL LAKE MAP SHEET #93A

BY

CATHERINE J RIDLEY EAGLE CREEK, BC VOK 1LO DECEMBER 1997

	RY OF EMPLOYMENT	
Rec'd.	JAN 2 11 1993	
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Geological Survey Branch MEI

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BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations, section 15, 16 and 17.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

LOCATION/COMMODITIES Project Area (as listed in Part A) Regional Project MINFILE No. if applicable Location of Project Area NTS 93 A/2: 93 A/1 Lat Long Description of Location and Access * 26 Km. NE of Eagle CK; by Way of 6000rd. to Y: Then 7000rd to Art CK. Forest Rd. Main Commodities Searched For Cfold, copper, zinc, lead, silver Known Mineral Occurrences in Project Area Crold - HEN-DZ claims VORK PERFORMED See report + maps . Geological Mapping (hectares/scale) See report maps . Geological Mapping (hectares/scale)
Known Mineral Occurrences in Project Area Crold - HEN-DL claims WORK PERFORMED 1. Conventional Prospecting (area) See report + maps 2. Geological Mapping (hectares/scale) See report maps 3. Geochemical (type and no. of samples)
WORK PERFORMED 1. Conventional Prospecting (area) 2. Geological Mapping (hectares/scale) 3. Geochemical (type and no. of samples)
1. Conventional Prospecting (area) See report + maps 2. Geological Mapping (hectares/scale) See report maps 3. Geochemical (type and no. of samples) 45 Doil Samples: 1151115; 28 Rocks 4. Geophysical (type and line km) Ø 5. Physical Work (type and amount) (± 150 Rx) rock collecting for speciments 6. Drilling (no., holes, size, depth in m, total m) Ø 7. Other (specify) Claim Name Art 1-4 claims Location (show on map) Lat
Commodities <u>As Au</u> Location (show on map) Lat <u>650,500 E</u> Long <u>5764,500 N</u> Elevation Best assay/sample type <u>1950 ppb Au- in rock (Art97:024)</u>
Description of mineralization, host rocks, anomalies

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

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THE 1997 FIELD SEASON WAS CONDUCTED IN AN AREA APPROXIMATELY 75 KILOMETERS NORTHEAST OF 100 MILE HOUSE. IT IS EASILY ACCESSED BY PAVED AND GRAVEL ROADS.

TWO NEW CLAIM BLOCKS WERE ADDED TO THE MAP SHEET AS A RESULT OF THIS SEASONS WORK. THE ART 1 - 4 WAS STAKED BY D. RIDLEY AS THEY WILL BE ANNEXED TO THE HEN-LEDGE-DL CLAIMS WHICH LIE A SHORT DISTANCE TO THE NORTH. THE ART 1 - 4 CLAIMS COVER GOLD, COPPER, ARSENIC AND ZINC ANOMALIES IN ROCKS AND MULTI-ELEMENT ANOMALIES IN SOILS. THE CELTIC CLAIMS WERE STAKED TO COVER AN OUTCROPPING OF STAUROLITE AND ANDALUSITE SCHIST.

THE DECEPTION CREEK SURVEYS PRODUCED A NEW VALUABLE INSIGHT ON A POSSIBLE SKARN BODY.

THE ONLY OTHER FIND OF ANY SIGNIFICANCE WAS IN THE BOSS CREEK OR 6200 RD AREA. AN OUTCROPPING OF TERTIARY BASALT FLOW CONTAINING PERIDOT/OLIVINE CRYSTALS WAS DETECTED IN THE DITCH BESIDE THE ROAD AND WAS LATER FOUND TO EXTEND INTO THE BORDERING CLEAR-CUT.

A TOTAL OF 47 DAYS WERE SPENT IN THE FIELD WITH THIRTY ONE COMPLETED BY THE AUTHOR AND ANOTHER SIXTEEN BY MY PROSPECTING PARTNER, D. RIDLEY. TWENTY-FOUR ROCK, ELEVEN SILT AND FORTY-FIVE SOIL SAMPLES WERE SENT FOR ANALYSIS. NINETEEN SOILS WERE ALSO COLLECTED BUT NOT YET SENT IN FOR ANALYSIS. A SUITE OF 77 HAND SPECIMENS WERE COLLECTED AND REPRESENT A SAMPLE OF EVERY ROCK OR ALTERATION ASSEMBLAGE ENCOUNTERED.

IN ADDITION TO THE FIELD DAYS MENTIONED ABOVE, SEVERAL DAYS WERE SPENT CHECKING OUT NEW LOGGING ROADS AND LOOKING FOR ANY FRESH ROCK EXPOSURE. THIS TYPE OF ROAD TRAVERSE IS A HIGHLY EFFECTIVE METHOD WHEN USED EARLY IN THE YEAR. IT DETERMINES ROAD CONDITIONS AT HIGHER ELEVATIONS AND IT ELIMINATES CERTAIN AREAS FROM FURTHER STUDY.

IN SUMMARY, THE ART 1-4 IS PERHAPS THE MOST EXCITING FIND AS IT INDICATES POSSIBLE ECONOMIC MINERALIZATION IN THE REGIONAL NORTH/SOUTH FAULT SITUATED NEAR THE CONTACT BETWEEN BLACK PHYLLITES AND THE MORE VOLCANIC ROCKS TO THE WEST.

INTRODUCTION

1997 FIELD RESULTS ARE MOST ENCOURAGING. A NEW MINERALIZED SHOWING WILL BE ADDED TO MINFILE AND TWO SEPARATE EXPOSURES OF INDUSTRIAL MINERALS WERE IDENTIFIED AND MAPPED.

SULPHIDE MINERALIZATION APPEARS TO HOLD THE BEST ECONOMIC PROMISE IN THE RHYO-DACITE ROCKS OF THE ART 1-4 CLAIMS. DECENT VALUES OF ARSENIC AND GOLD HAVE BEEN FOUND IN THE ROCKS. ANOMALOUS VALUES FOR ARSENIC AND MAGNESIUM WERE FOUND TO EXIST IN THE SOILS. THESE CLAIMS WERE STAKED BY THE AUTHORS PARTNER, D. RIDLEY AS THEY WILL BE ADDED TO THE HEN - LEDGE - DL CLAIM BLOCKS.

THE CELTIC CLAIMS WERE STAKED TO COVER A LARGE EXPOSURE OF STAUROLITE /ANDALUSITE SCHIST. THIS OCCURRED AS A DIRECT RESULT OF A VISIT BY REGIONAL DISTRICT GEOLOGIST BOB LANE WHO WAS SOON FOLLOWED BY INDUSTRIAL MINERALS GEOLOGIST GEORGE SIMANDL. THEY PROVIDED VALUABLE GUIDANCE IN CONSIDERING VARIOUS POSSIBILITIES FOR DEVELOPMENT OF THE CLAIMS. DISCUSSIONS WITH GEORGE SIMANDL CONCERNING INDUSTRIAL MINERALS AND GEMS RESULTED IN ONE DAY NOT REPORTED HERE, SPENT INVESTIGATING A SHOWING OF OPAL IN THE TERTIARY SKULL HILL ROCKS OF THE SOUTH CANIM LAKE AREA. UNFORTUNATELY THE QUALITY OF THE OPAL IS QUITE POOR. HOWEVER IT IS DECENT SPECIMEN MATERIAL AND A LOCAL LANDSCAPING BUSINESS IS QUITE INTERESTED IN BOTH THE OPAL AND THE STAUROLITE.

SAMPLING DONE IN THE DECEPTION CREEK AREA PROVIDED VALUABLE INFORMATION ON THE EXISTENCE OF A CALC-SILICATE SKARN. TUNGSTEN ANOMALIES OCCUR IN SILTS ON THE NORTH SIDE OF DECEPTION CREEK AND THE DISCOVERY OF THE SKARN MAKE THIS A VIABLE TARGET FOR MORE EXPLORATION.

THE HENDRIX MOUNTAIN TRAVERSES UNCOVERED NOTHING MORE THAN THE UBIQUITOUS AUGITE PORPHYRY KNOWN TO EXIST IN LARGE PARTS OF THE AREA.

CLEAR-CUTS ADJACENT TO THE HEN-LEDGE-DL CLAIMS WERE PROSPECTED, AND MAPPED WHEN OUTCROP WAS ENCOUNTERED, AS WERE ALL ROADS LEADING TO THEM.

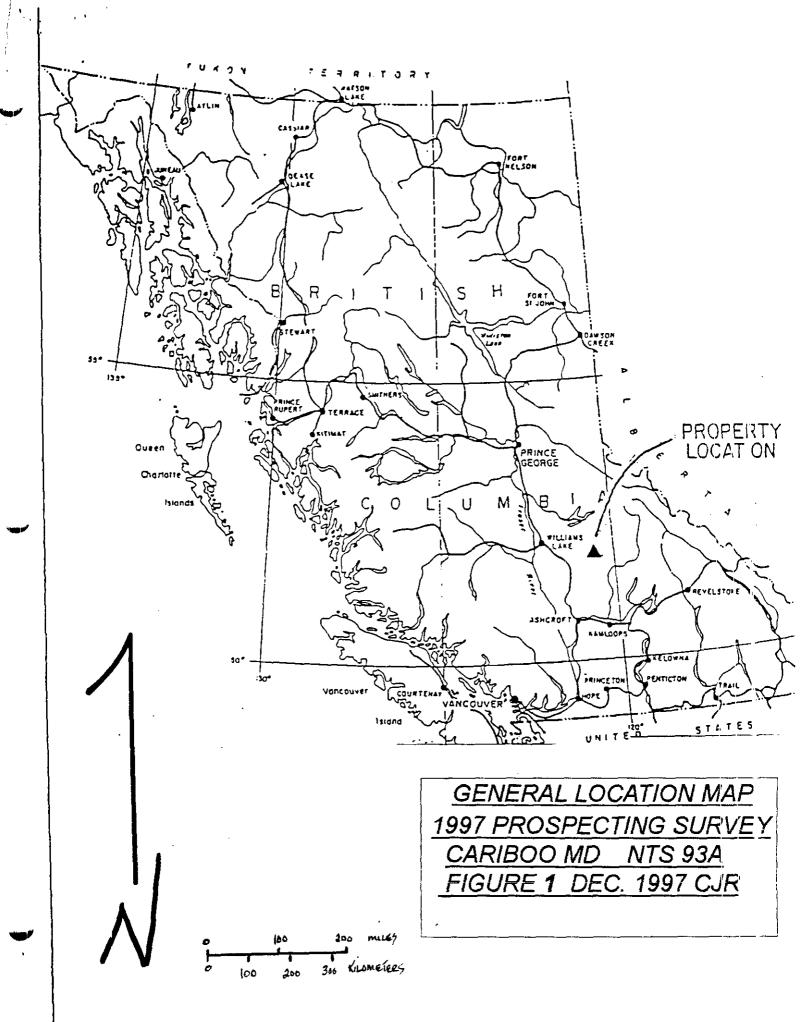
A NEW SHOWING ON THE BURTT CREEK ROAD IN A CHLORITE AND CALCITE RICH VOLCANIC FAULT GOUGE RETURNED NUMBERS OF 1055 ppm ZINC, 143.9 ppm CADMIUM AND 1112 ppm STRONTIUM. THIS GROUND PROVED TO BE VERY CLOSE TO CLAIMS HELD BY FELLOW PROSPECTOR HERB WAHL AND THE AREA WAS ADDED TO HIS CLAIMS.

THE 6200 RD (BOSS CREEK) TRAVERSES REVEALED A NEW OUTCROPPING OF TERTIARY LAVA FLOW, CONTAINING PERIDOT/OLIVINE IN CHRYSOLITE CLASTS.

OVERBURDEN WAS A HINDRANCE IN MANY OF THE EXISTING AND NEW CLEAR-CUTS WHICH WERE EXAMINED DURING THE SURVEY. OUTCROP EXPOSURE AT LOW TO MID- ELEVATIONS IS SCANT, DUE EITHER TO OVERBURDEN OR HEAVY MOSS COVERING. HANDSAMPLES WERE COLLECTED IN ALL AREAS IN ORDER TO ACCUMULATE A REGIONAL SUITE.

THE FOLLOWING REPORT DETAILS WORK DONE IN ALL SECTORS THIS YEAR AND PROVIDES IN DEPTH STUDIES OF THE MAIN AREAS OF MINERALIZATION. THE REGIONAL PROGRAM MAP PROVIDES AND OVERVIEW OF ALL REGIONS COVERED IN THIS YEARS' SURVEY.¹

¹ SEE FIGURE 6: REGIONAL PROJECT LOCATION MAP



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LOCATION AND ACCESS¹

THE CENTER OF THE PROJECT AREA IS SITUATED APPROXIMATELY 75 KILOMETERS NORTHEAST OF 100 MILE HOUSE, BC AND IS LOCATED ON QUESNEL LAKE MAP SHEET #93A.

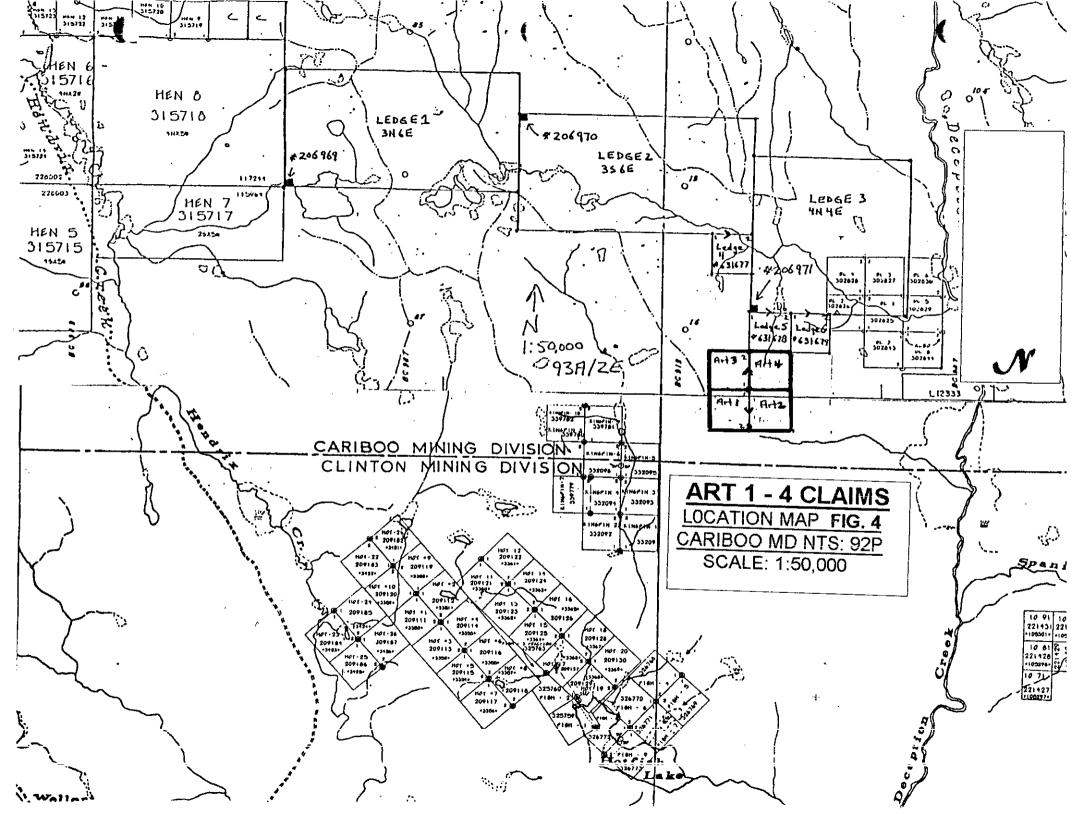
ACCESS FROM HIGHWAY 97 IS VIA THE CANIM-HENDRIX ROAD 58 KILOMETERS TO EAGLE CREEK BRIDGE. THEN BY THE HENDRIX LAKE (6000 RD) TO THE JUNCTION OF THE DECEPTION CREEK (7000 RD). THE 7000 RD IS FOLLOWED FOR ANOTHER 23 KMS TO THE JUNCTION OF THE 7300RD. ACCESS TO THE CELTIC CLAIMS IS GAINED BY TAKING THE 7300 RD FOR 2.3KM.

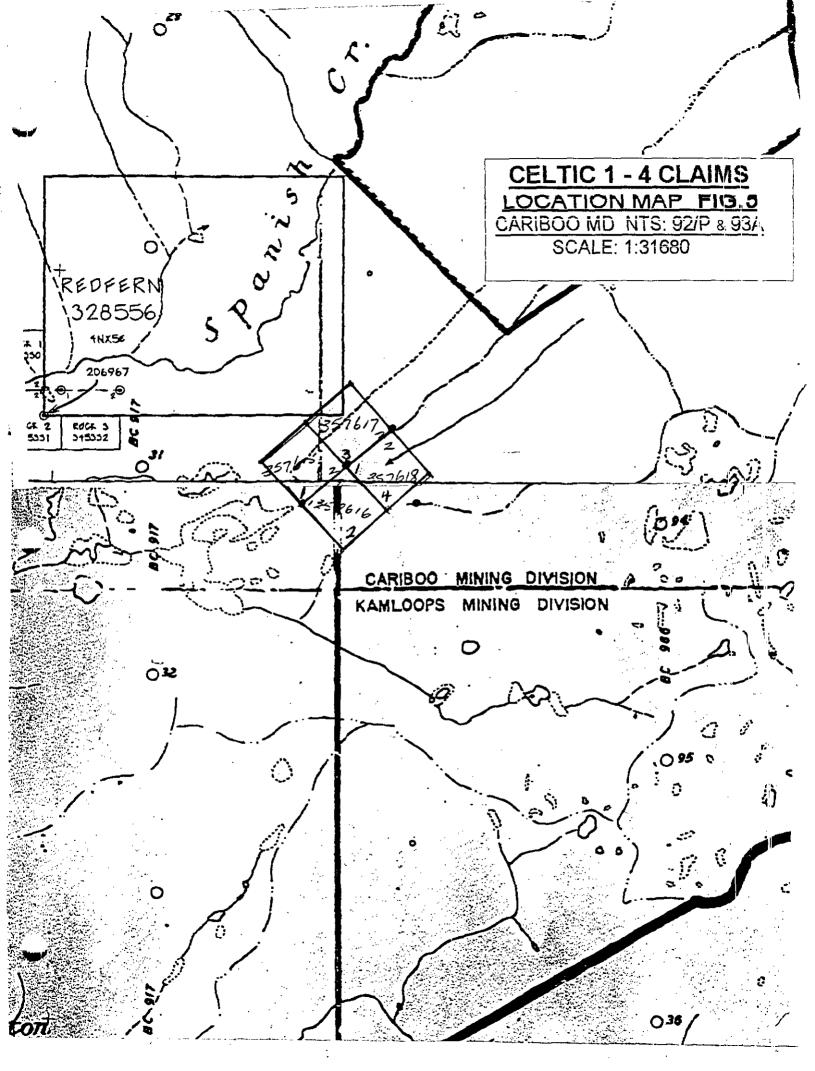
ACCESS TO THE HEN MAIN SHOWING AND WESTERN PORTION OF THE LEDGE GROUP IS GAINED BY STAYING ON THE 6000 RD TO ITS JUNCTION WITH THE 6300 RD. THIS ROAD BRANCHES MANY TIMES, PROVIDING EXCELLENT ACCESS TO THE CLAIMS AND PERIPHERY OF THE CLAIM BOUNDARIES.

A NETWORK OF FORESTRY AND LOGGING ROADS BRANCHING OFF BOTH THESE MAIN ROADS PROVIDE READY PASSAGE FOR TRUCK OR ATV. THOUGH IT MUST BE NOTED THAT MANY OF THE LESSER ARTERIAL ROADS ARE BEING DECOMMISSIONED.

ELEVATIONS EXTEND FROM 3000' TO APPROXIMATELY 6620'. IN THIS RANGE ALL THE DIVERSE CLASSES OF HERBAGE AND FLORA INDIGENOUS TO THE INTERIOR ARE ENCOUNTERED. CLIMAX OPEN DOUGLAS FIR FORESTS GIVE WAY TO LOWLAND SPRUCE, PINE AND CEDAR AND CONCOMITANT THICKETS OF ALDER, WILLOW, BUCKBRUSH AND RHODODENDRON. ROCK EXPOSURE IS BEST IN RECENT AND PRIOR CLEAR-CUTS AND AT HIGHER ELEVATIONS. OVERBURDEN IS EXTENSIVE IN MOST AREAS AS IS DENSE COVERINGS OF MOSSES AND LICHENS IN HEAVILY FORESTED SECTORS.

¹ SEE FIGURE 1: GENERAL LOCATION MAP





CLAIM STATUS

THE CELTIC CLAIMS¹ CONSIST OF FOUR TWO-POST UNITS. THESE ARE THE SOLE PROPERTY OF C J RIDLEY OF EAGLE CREEK, BC. NO RESTRICTIONS APPLY TO STAKING, EXPLORATION OR DEVELOPMENT IN THE AREA.

PERTINENT CLAIM DATA CAN BE VIEWED IN THE TABLES BELOW. WORK APPROVAL NUMBER KAM 97 - 1500605 -695.

CLAIM NAME DATE	RECORD NUMBER	EXPIRY DATE
CELTIC 1	357615	JULY 11, 1998
CELTIC 2	357616	
CELTIC 3	357617	"
CELTIC 4	357618	"

THE ART CLAIMS² CONSIST OF FOUR TWO-POST UNITS. THESE ARE THE SOLE PROPERTY OF D W RIDLEY OF EAGLE CREEK, BC. NO RESTRICTIONS APPLY TO STAKING, EXPLORATION OR DEVELOPMENT IN THE AREA. PERTINENT CLAIM DATA CAN BE VIEWED IN THE TABLES BELOW. WORK APPROVAL NUMBER KAM - 97 - 0300495 - 623.

CLAIM NAME DATE	RECORD NUMBER	EXPIRY DATE
ART 1	359881	OCT. 21, 1998
ART 2	359882	"
ART 3	359883	"
ART 4	359884	

REGIONAL GEOLOGY³

THE QUESNEL TROUGH OCCUPIES THE EASTERN PORTION OF THE INTERMONTANE BELT ALONG THE TROUGHS' TECTONIC BOUNDARY WITH THE OMINECA. TRIASSIC AND EARLY JURASSIC VOLCANIC ARC AND RELATED VOLCANICLASTIC ROCKS CHARACTERIZE QUESNELLIA AND OVERLIE A THIN, DISCONTINUOUS SLICE OF CROOKED AMPHIBOLITE.⁴

THE TRIASSIC-JURASSIC NICOLA ISLAND ARC-MARGINAL BASIN SEQUENCE IS THE PRINCIPAL ASSEMBLAGE OF QUESNELLIA. THESE ROCKS OCCUPY THE CENTRAL AND SOUTHERN PARTS OF THE NORTHWESTERLY TRENDING BELT AND OUTLINE THE QUESNEL MAGMATIC ARC. ALSO OF IMPORTANCE ARE THE MIDDLE TO LATE TRIASSIC SEDIMENTARY ROCKS WHICH ARE DOMINANTLY FINE-GRAINED AND FORM THE BASAL UNIT OF THE SEQUENCE.

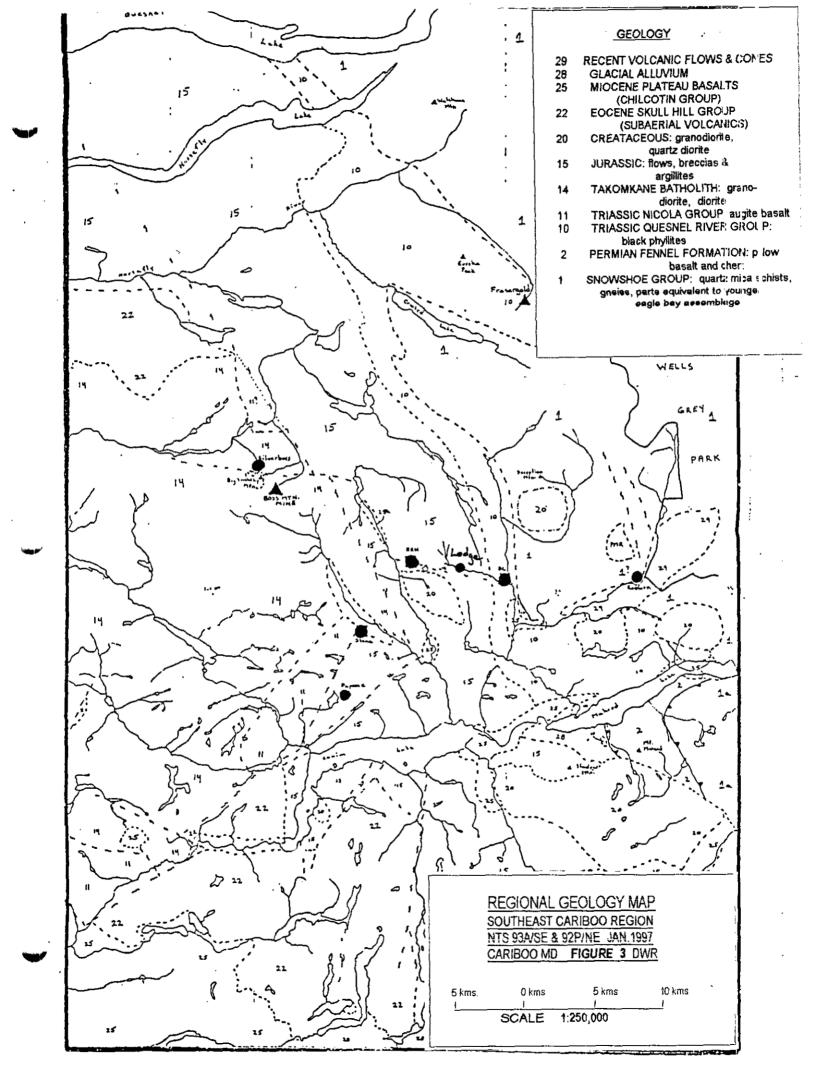
THE NICOLA GROUP IS ASSIGNED TWO MAP UNITS WHICH BREAK DOWN INTO SEPARATE MORE DETAILED ROCK CLASSES. PLAGIOCLASE PYROXENE BASALT (2F, 2G) MAKES UP THE MOST RECENT UNIT FOLLOWED BY ANALCITE PYROXENE BASALT (2E); PYROXENE HORNBLENDE BASALT (2D); POLYLITHIC BRECCIA (2C); BASALT-BRECCIA, TUFF, SANDSTONE (2B); ALKALI OLIVINE

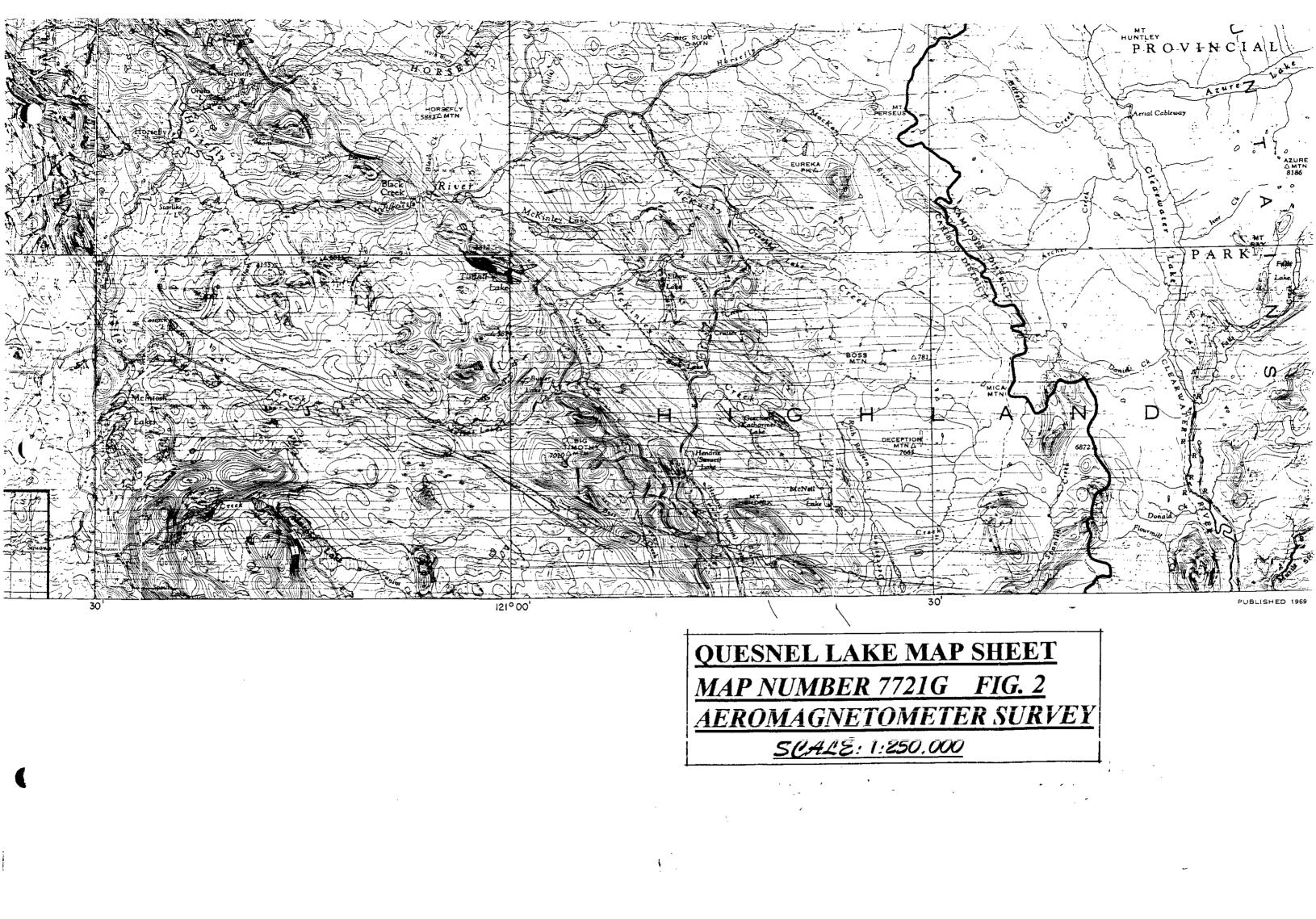
¹ SEE FIGURE 5: CELTIC 1-CLAIM LOCATION MAP

² SEE FIGURE 4: ART 1-4 CLAIM LOCATION MAP

³ SEE FIGURE 3: REGIONAL GEOLOGY MAP

⁴ CAMPBELL, 1971





BASALT WACKE (2A); PYROXENE BASALT (1A) AND LASTLY SANDSTONE, SILTSTONE, SHALE AND PHYLLITE. (1)¹

INTRUSIVE ROCKS ARE REPRESENTED BY THE EARLY JURASSIC TAKOMKANE BATHOLITH AND YOUNGER CRETACEOUS STOCKS AND DIKES. THE BATHOLITH (7) IS COMPOSED OF GREY, MEDIUM GRAINED EQUIGRANULAR TO PORPHYRYTIC QUARTZ DIORITE AND GRANODIORITE.

THE CRETACEOUS ROCKS (8) ARE MEDIUM TO COARSE-GRAINED, HORNBLENDE GRANODIORITE AND QUARTZ MONZONITE; LEUCOCRATIC QUARTZ MONZONITE AND ALASKITE.

AEROMAGNETOMETER SURVEY

A SERIES OF LOW MAGNETOMETER ANOMALIES TRENDING IN A MORE OR LESS EAST/WEST DIRECTION HAVE BEEN INTERPRETED AS OUTLINING A MAJOR STRUCTURAL TREND. MINERALIZATION IS KNOWN TO OCCUR FREQUENTLY ALONG THIS TREND ESPECIALLY IN THE PROJECT STUDY AREA.

THE AREA OF THE ART CLAIMS ARE COVERED BY A NORTHERLY TRENDING LOW WHICH IS REPEATED TO THE NORTH IN AN AREA WEST OF MCNEIL LAKE. THIS LOW MAY BE A FURTHER INDICATION OF NORTHWEST FAULTING.

1997 WORK PROGRAM²

PROSPECTING, SILT AND SOIL SAMPLING IN CONJUNCTION WITH GEOLOGICAL MAPPING WERE METHODS EMPLOYED DURING THIS FIELD SEASON. TWENTY-EIGHT ROCKS, FORTY-FIVE SOILS AND ELEVEN SILTS WERE COLLECTED AND SENT FOR ANALYSIS. SIXTEEN ADDITIONAL SOILS WERE GATHERED BUT NOT ANALYZED.

IN KEEPING WITH THE REGIONAL CHARACTER OF THIS PROPOSAL MANY TRAVERSES WERE UNDERTAKEN IN SEVERAL DIFFERENT AREAS. IF GROUND COVERED IN THE FIRST SURVEY PROVED INFERTILE NO FURTHER EXPLORATION WAS CARRIED OUT. IF AN AREA DID REVEAL A CERTAIN AMOUNT OF POTENTIAL IT WAS GIVEN CLOSER INSPECTION.

ROAD RECONNAISSANCE SURVEYS WERE BEGUN IN EARLY MAY BOTH BY TRUCK AND ATV WHERE NECESSARY. AS A RESULT OF ONE OF THESE AN AREA ON THE ART CREEK ROAD WAS NOTED FOR FURTHER STUDY. <u>GRANT APPROVAL</u> WAS GIVEN ON **MAY 21, 1997** AND <u>WORK BEGAN</u> SHORTLY THEREAFTER.

THREE AREAS SAW THE MAJORITY OF WORK, THE ART CREEK SHOWING (ART 1-4 CLAIMS) THE CELTIC SHOWING (CELTIC 1-4 CLAIMS) AND HENDRIX MOUNTAIN ENVIRONS.

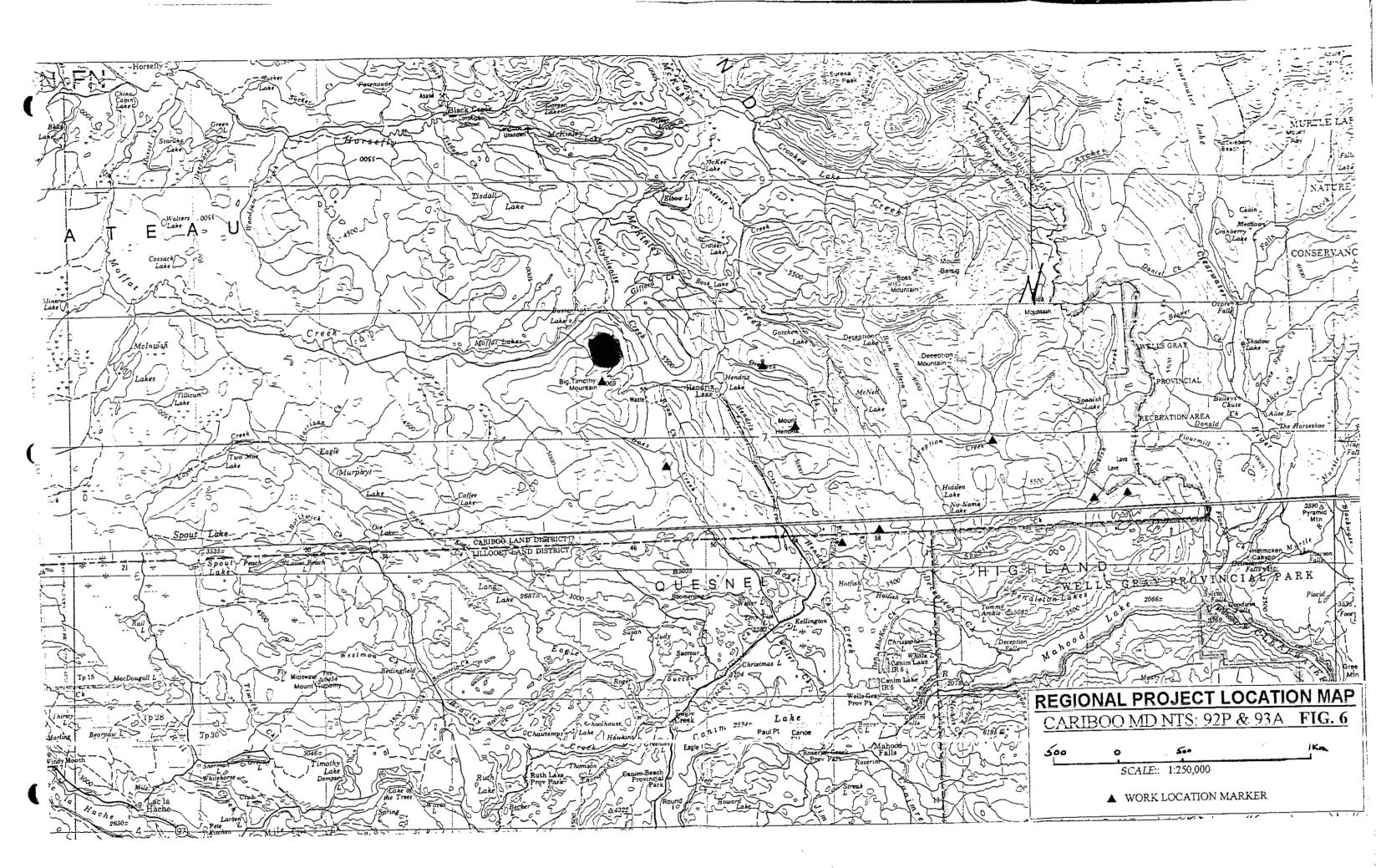
THE BOSS CREEK PERIDOT SHOWING AND THE DECEPTION CREEK SKARN WERE MAPPED AND/OR SAMPLED. AREAS WHERE MINERAL POTENTIAL WAS DETERMINED SAW ADDITIONAL WORK.

ALL SAMPLE SITES ARE PLOTTED CLEARLY ON MAPS ACCOMPANYING THE REPORT.

ALL WORK WAS CARRIED OUT BY THE AUTHOR OR IN CONJUNCTION WITH MY PARTNER D. RIDLEY. A TOTAL OF FORTY-SEVEN DAYS WERE SPENT IN THE FIELD WITH THIRTY-ONE COMPLETED BY THE AUTHOR.

¹ BULLETIN 97, MAP 1 GEOLOGY OF THE CENTRAL QUESNEL BELT, BC

² SEE FIGURE 6: REGIONAL PROJECT LOCATION MAP



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ART CREEK 1-4 CLAIMS

1 HAVE INCLUDED THE BURTT CREEK TRAVERSES IN WITH THE ART CREEK SECTION AS THE TWO AREAS BORDER ON EACH OTHER.¹ THE BURTT CREEK WORK WAS CURTAILED DUE TO CONFLICT WITH A COMPETING PARTY. HERB WAHL, A FELLOW PROSPECTOR HAS THE **HOTFISH** AND **KINGPIN** CLAIMS AND HAS BEEN DOING FOLLOW UP WORK ON A NUMBER OF NEW SHOWINGS. DURING A VISIT TO OUR HOME HE MENTIONED THAT HE WOULD BE CARRYING OUT FURTHER STAKING IN THE AREA. AS THE SAMPLES I TOOK WERE VERY CLOSE TO HIS PROPOSED STAKING IT WAS DETERMINED BY ME THAT THE RESULTS WOULD BE SHARED WITH HERB AND NO FURTHER WORK WOULD BE DONE CLOSE TO HIS CLAIMS.

TWO SAMPLES WERE TAKEN IN THE BURTT CREEK AREA.

97PAG:CR13 IS A GRAB OF SUBCROP RUBBLE FROM THE ROAD DITCH. IT IS A HIGHLY OXIDIZED AND LIMONITE RICH ALTERED INTRUSIVE. NO SIGNIFICANT VALUES WERE RETURNED FROM IT.

97PAG:CR14 IS A DIFFERENT MATTER. IT IS ALSO A GRAB OF SUBCROP RUBBLE ACROSS THE ROAD FROM CR13. IT IS A HYDROTHERMAL BRECCIA RICH IN CALCIUM AND PYRITE. IT IS ANOMALOUS IN **ZINC** AT **1055 ppm, SILVER** AT **8.6 ppm, STRONTIUM 1112 ppm, CADMIUM** WAS **143.9 ppm** AND **COPPER** WAS VERY SLIGHTLY ANOMALOUS AT **178 ppm.** NO OUTCROP WAS OBSERVED AND NO STRIKE OR DIP OBTAINABLE.

THE **ART CREEK** WORK RESULTED IN STAKING THE ART 1-4 CLAIMS BY MY PARTNER D. RIDLEY WHO PLANS TO ANNEX THEM TO THE NEARBY HEN-LEDGE-DL CLAIMS.

97PAG:CR3 IS A GRAB OF QUARTZ WITH PHYLLITE INCLUSIONS AND WAS ONLY VERY SLIGHTLY ANOMALOUS IN GOLD AT 15 ppb. NO OTHER VALUES OF ANY INTEREST WERE RETURNED FROM IT.

97PAG:CR4 IS A GRAB OF HIGHLY GOSSANED AND MAGNETIC AUGITE PORPHYRY FROM AN OUTCROP STRIKING AT 024' AND DIPPING 72'NE. IT IS ANOMALOUS IN COPPER AT 274 ppm, STRONTIUM AT 3041 ppm AND 149 ppm CHROMIUM.

97PAG:CR5 IS A GRAB OF MAFIC AUGITE PORPHYRY OUTCROP SHEAR ZONE. STRIKING AT 144' AND DIPPING 72'SW. IT IS FOLIATED AND PROPILLITICALLY ALTERED AND IS TALC-LIKE TO THE TOUCH. IT RETURNED INTERESTING RESULTS OF 660 ppm NICKEL, 795 ppm CHROMIUM AND 88 ppb, GOLD.

97PAG:CR6 IS HIGHLY MAFIC RESEMBLING A GABBRO. IT IS LIMONITE RICH AND MAGNETIC. NICKEL IS ANOMALOUS AT 943 ppm, AS IS MANGANESE AT 1083 ppm AND CHROMIUM AT 719 ppm, COBALT IS ELEVATED AT 103 ppm. THIS OUTCROP IS TRENDING AT 314' THOUGH NO DIP WAS POSSIBLE.

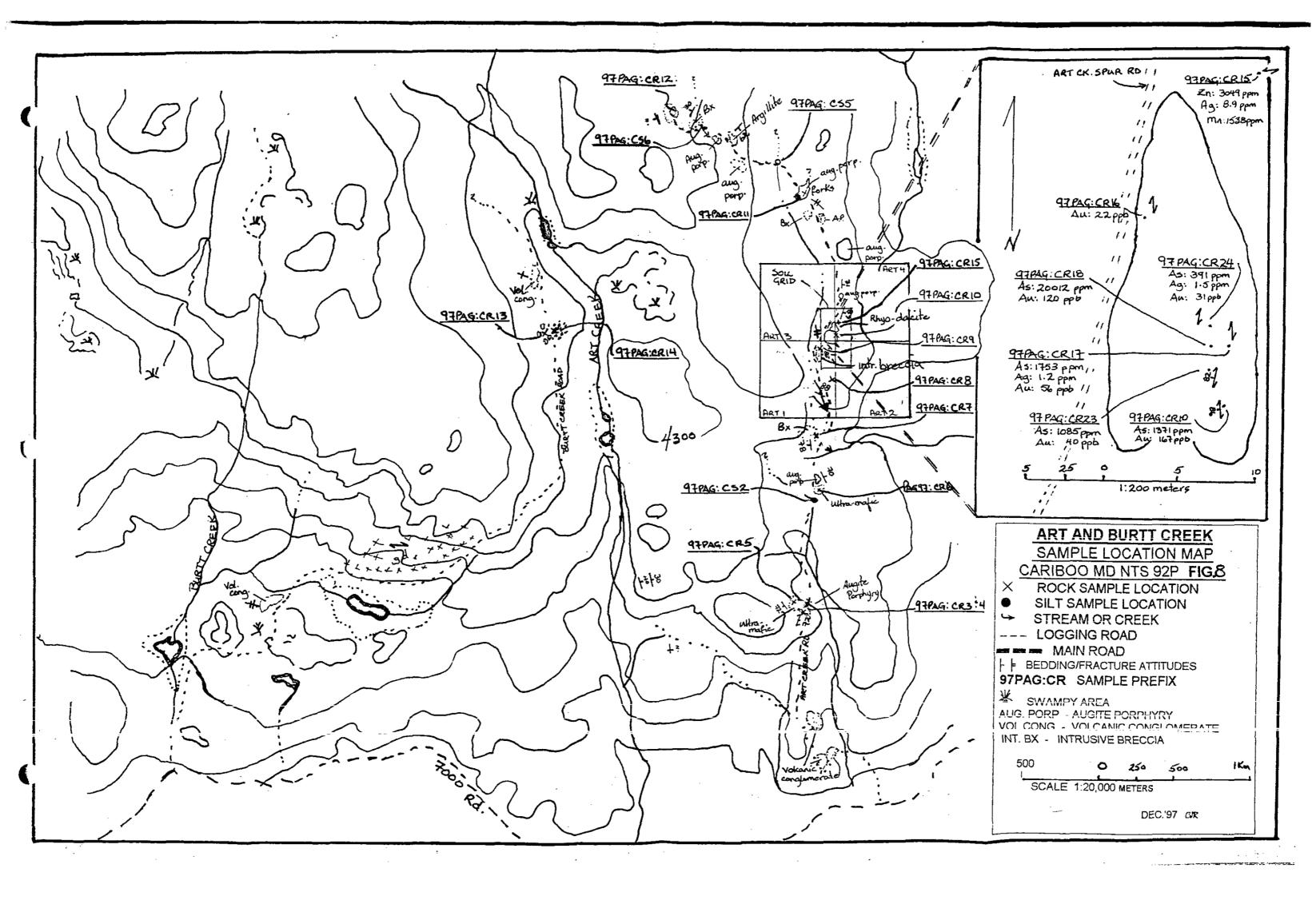
97PAG:CR7 IS A GRAB OF FAULT BRECCIA HIGHLY SILICIFIED, MAFIC AND CALCITE RICH. THE OUTCROP IT WAS TAKEN FROM STRIKES AT 352' AND DIPS 78'W. CR7 IS ONLY SLIGHTLY ANOMALOUS FOR COPPER AT 130 ppm AND CALCIUM AT 1.35 %, VANADIUM IS ELEVATED AT 138 ppm.

97PAG:CR8 IS A 45 CENTIMETER WIDE SAMPLE OF ALTERED AUGITE PORPHYRY INTRUDED BY A .45 MILLIMETER WIDE QUARTZ VEIN. IT STRIKES AT 298' AND DIPS 88'NE. VALUES RETURNED FOR IT AT 316 ppm NICKEL, 330 ppm CHROMIUM, 148 ppm COPPER AND 114 ppm ARSENIC.

97PAG:CR9 IS APPROXIMATELY 350 METERS NORTHEAST OF CR8. IT IS FROM AN OUTCROP OF AUGITE PORPHYRY BRECCIA WITH EPIDOTE VEINING HIGHLY SILICIFIED AND NON-MAGNETIC. EPIDOTE STOCKWORK VEINING IS PRESENT IN MOST OF THE OUTCROP WHICH STRIKES AT 171' AND DIPS 90'. THOUGH LACKING IN ECONOMIC MINERALS IT ANALYSIS RESULTS SHOWED 269 ppm BARIUM, 144 ppm VANADIUM AND 139 ppm STRONTIUM, CALCIUM CONTENT IS 1.00%.

97PAG:CR10 IS THE SAMPLE THAT FIRST SHOWED THE POTENTIAL OF THE GROUND. IT IS FROM A LARGE OUTCROP EXPOSURE OF RHYO-DACITE WHICH STRIKES AT 180' AND DIPS 86'W. A 0.5 MILLIMETER WIDE QUARTZ VEIN INTRUDES THE ROCK AND WAS INCLUDED IN THE SAMPLE. CLOSE TO THE VEIN THE ROCK MORE RESEMBLES A BRECCIA OF RHYO-DACITE WITH WELL

¹ SEE FIGURE 8: ART AND BURTT CREEK SAMPLE LOCATION MAP



FORMED EUHEDRAL PYRITE CRYSTALS AND SOME HEMATITE (?). VALUES FOR THIS SAMPLE WERE 1371 ppm ARSENIC AND 167 ppb GOLD. THE IRON CONTENT IS ALSO HIGH AT 6. 83 ppm.

97PAG:CR11 IS TAKEN FROM A MAFIC, SILICIFIED AUGITE PORPHYRY SHEAR STRIKING AT 130' AND DIPPING 90'. IT PROVED TO BE HIGH IN MAFIC MINERALS WITH **NICKEL** CONTENT OF **170** ppm, **CHROMIUM IS 221** ppm, **IRON 5.72%** AND **COPPER** AT **123** ppm. **BARIUM** WAS ELEVATED AT **122** ppm.

97PAG:CR12 IS A 30 CENTIMETER GRAB OF SILICIFIED, CALCAREOUS AUGITE PORPHYRY BRECCIA WITH HEAVY LIMONITE ALTERATION. THE OUTCROP TRENDS AT 334' NO DIP MEASUREMENT WAS POSSIBLE. THIS SAMPLE WAS ONLY SLIGHTLY ANOMALOUS FOR COPPER AT 161 ppm, THOUGH BARIUM, VANADIUM AND POTASSIUM WERE ELEVATED AT 204 ppm, 178 ppm AND 1.41% RESPECTIVELY.

97PAG:CR15 LIES APPROXIMATELY 20 METERS NORTHEAST OF CR10. IT IS ALSO FROM AN OUTCROP OF RHYO-DACITE TRENDING 174'. SEVERAL SMALL, MILLIMETER WIDE VEINS OF SPECULAR HEMATITE CUT THE ROCK. VALUES RETURNED FOR THIS SAMPLE WERE 3049 ppm ZINC, 8.9 ppm SILVER, 121 ppm COPPER, 1538 ppm MANGANESE, 280 ppm STRONTIUM, 335.2 ppm CADMIUM, 126 ppm VANADIUM, 7.28% CALCIUM AND A SNIFF OF GOLD AT 13 ppb.

97PAG:CR16 IS FROM A CONTACT BETWEEN MAFIC AUGITE PORPHYRY AND RHYO-DACITE WHICH TRENDS AT 180'. PYRITE AND HEMATITE WERE NOTED. NO VALUES OF INTEREST WERE RETURNED FROM THIS SAMPLE.

97PAG:CR17 IS A 60 CENTIMETER CHIP OF BLEACHED, ALTERED AND BRECCIATED RHYO-DACITE APPROXIMATELY 5 METERS NORTH OF CR10. THE ROCK RESEMBLES FAULT GAUGE AND IS HEAVILY PYRITIZED WITH UP TO 10% VISIBLE SULPHIDES. THE ROCK STRIKES AT 182' AND DIPS 90', CALCITE IS PRESENT IN ALL FRACTURE FILLINGS. VALUES FOR THIS SAMPLE ARE NOTABLE AT **1753 ppm ARSENIC. 1.2 ppm SILVER** AND ELEVATED **GOLD** OF **56 ppb**.

97PAG:CR18 IS 64 CENTIMETER CHIP OF ALTERED RHYO-DACITE. IT IS CALCAREOUS, BRECCIATED AND HIGHLY PYRITIZED. IT RETURNED VERY HIGH **ARSENIC** VALUES OF 20012 ppm AND ANOMALOUS GOLD OF 120 ppb.

97PAG: CR19 IS A **72** CENTIMETER CHIP OF THE SHOWING. IT RESAMPLES PART OF CR10. MILLIMETER WIDE CALCITE VEINS CARRY EUHEDRAL PYRITE CRYSTALS INTRUDING THE RHYO-DACITE ROCK. VALUES FOR THIS SAMPLE WERE **1332** ppm **ARSENIC**, **87** ppb **GOLD** AND **101** ppm **BARIUM**.

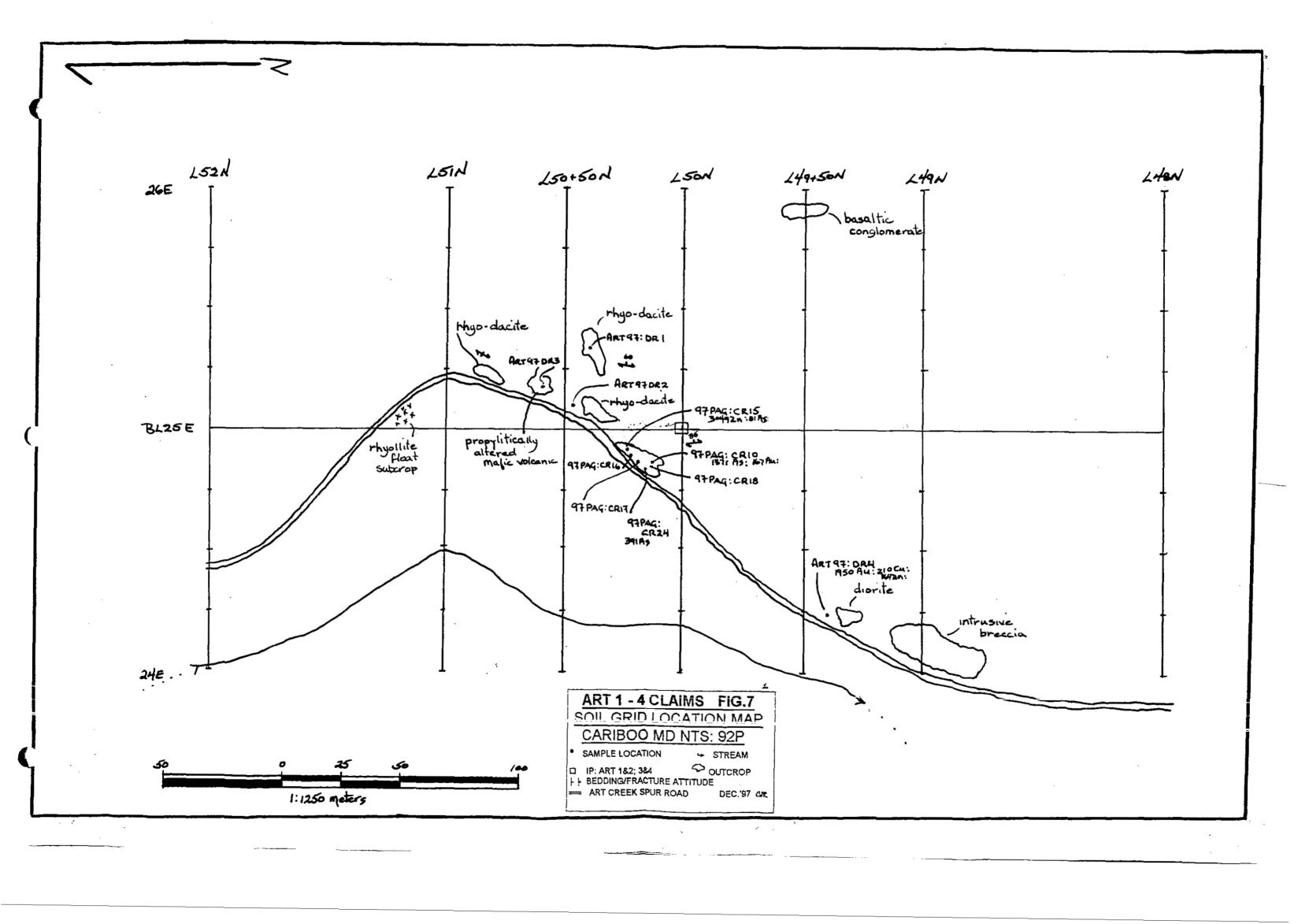
97PAG:CR23 IS A 140 CENTIMETER WIDE SAMPLE OF BOTH THE HANGING WALL AND THE FOOTWALL OF CR18, PART OF WHICH WAS PREVIOUSLY UNDERWATER. HEAVY FRACTURING AND SHEARING HAS TAKEN PLACE IN THE RHYO-DACITE ROCKS. FINE-GRAINED DISSEMINATED PYRITE IS UBIQUITOUS THROUGHOUT THE ROCKS. THE ONLY VALUE OF ECONOMIC INTEREST RETURNED WAS FOR ARSENIC AT 1085 ppm, GOLD REGISTERED AT 40 ppb.

97PAG: CR24 IS 1.5 METERS SOUTH OF CR17. IT IS A 30 CENTIMETER CHIP OF SERICITE RICH ALTERED RHYOLLITE. AN INTENSE 05 CENTIMETER WIDE ZONE OF HEAVILY PYRITIZED MATERIAL INTRUDES THE ROCK WHICH STRIKES AT 190' AND DIPS AT 70'. **1.5 ppm SILVER** AND **391 ppm ARSENIC** ALONG WITH **31 ppb GOLD** WERE THE ONLY NOTABLE VALUES.

ART97:DR1 IS A SAMPLE TAKEN FROM A SERICITIC SHEAR APPROXIMATELY 20 METERS EAST OF THE BASELINE. HEMATITE-SPHALERITE AND PYRITE ARE FOUND IN A LIGHT GREY RHYODACITE WHICH HAS BEEN BLEACHED BY ALTERATION. THE ZONE IS APPROXIMATELY 40 CENTIMETERS WIDE AND SERICITE FILLS ALL THE FRACTURES. NO ECONOMIC VALUES WERE RETURNED ON THIS SAMPLE.

ART97:DR2 IS A FLOAT SAMPLE TAKEN 15 METERS NW OF DR1. DETERMINED TO BE A BANDED COBBLE OF QUARTZ-CALCITE WITH ALTERED HORNFELSED SEDIMENTS CONTAINING BRIGHT SILVERY PYRITE. CALCIUM VALUES FOR THIS SAMPLE WERE HIGHLY ANOMALOUS AT 17.62%. STRONTIUM AND CHROMIUM WERE ELEVATED AT 774 ppm AND 144 ppm RESPECTIVELY.

ART97:DR3 IS SIMILAR IN CONTENT TO DR2 THOUGH WITH LESS SULPHIDE CONTENT. COMPOSED OF MAFIC VOLCANIC AND HORNFELSED LIGHT BLACK GREY SEDIMENTS IT HAS BEEN PROPYLITICALLY ALTERED AND INTRUDED BY RHYOLITE DYKELETS. CALCIUM, BORON AND STRONTIUM ARE ALL ELEVATED AT 10.28 %, 298 ppm AND 359 ppm APIECE.



ART97:DR4 IS A GRAB OF HIGHLY FRACTURED AND LIMONITE STAINED ALTERED DIORITE(?). FINE-GRAINED PYRITE AND POSSIBLY ARSENOPYRITE WERE OBSERVED IN THE ROCK. THE SAMPLE WAS TAKEN FROM AN AREA OF RHYO-DACITE OUTCROP WHICH LIES NORTH AND SLIGHTLY WEST OF THE MAIN SHOWINGS APPROXIMATELY FORTY METERS. THIS SAMPLE RETURNED GOOD VALUES FOR GOLD AT **1950 ppb** AND ANOMALOUS VALUES FOR **COPPER** AT **210 ppm**. **ZINC** WAS SLIGHTLY ANOMALOUS AT **164 ppm** AND **VANADIUM** AT **305 ppm**.

OF THE OF THE SILT SAMPLES OBTAINED IN THE AREA TWO RETURNED SLIGHTLY INTERESTING VALUES.

97PAG:CS5 WAS JUST ANOMALOUS IN SILVER AT 1.7 ppm, MANGANESE AT 1154 ppm, 123 ppm VANADIUM AND 157 ppm BARIUM.

97PAG:CS6 WAS ANOMALOUS IN ZINC AT 109 ppm, 989 ppm FOR MANGANESE AND 113 ppm CHROMIUM. BOTH THESE SAMPLES WERE TAKEN FROM STREAMS A KILOMETER AND A HALF NORTH AND UPSTREAM OF THE MAIN SHOWINGS.

ART CREEK SOIL GRID¹

THE ART 1 - 4 LOCATION LINE WAS EMPLOYED AS A BASELINE IN SETTING UP THE SOIL GRID. LINES WERE RUN NORTH AND SOUTH OF THE INITIAL POST AND ONE HUNDRED METERS EAST AND WEST FROM IT. THREE LINES WERE RUN TO THE NORTH WITH AN INTERVAL OF 100 METERS BETWEEN LINE 51N AND LINE 52N WITH AND INTERVAL OF 50 METERS BETWEEN THE BASELINE AND LINE 51N. THE SAME METHOD WAS USED FOR THE LINES RUN TO THE SOUTH OF THE IP. A TOTAL OF 51 SAMPLES WERE COLLECTED IN KRAFT SOIL BAGS, AIR DRIED THEN SENT TO ACME ANALYTICAL LABS IN VANCOUVER. THERE THEY WERE ANALYZED FOR 30 ELEMENT ICP.²

RESULTS WERE PLOTTED ON 1:1250 SCALE MAPS AND VALUES FOR COPPER, ZINC, ARSENIC AND BARIUM WERE PLOTTED ON ONE MAP, WHILE VALUES FOR MANGANESE, IRON, CALCIUM AND MAGNESIUM WERE PLOTTED ON ANOTHER.³

THESE VALUES WERE ALSO MANIPULATED USING MSEXCEL AND THE CHARTS RENDERED ARE INCLUDED IN THIS REPORT.

OVERALL RESULTS OF THE SOIL PROGRAM WERE SUBTLE. IN THIS INSTANCE MANGANESE WAS USED AS A PATHFINDER MINERAL AND RESULTS FROM THIS MINERAL WERE INCISIVE. MANGANESE IS ANOMALOUS OR ELEVATED FOR OVER SIXTY PERCENT OF ALL SAMPLES.

SIGNIFICANT RESULTS ARE SEEN AT L49N:25+50E; 24+25 - 50E: L49+50N:25+ 25E; AND 24+25 - 75E: L50+50N:24E TO 25+50E: L51N:24+ 50E; 25+50E: THE HIGHEST **MANGANESE** RECORDED WAS ON L50+50N: 24+50E AT **20037 ppm**.

MULTI-ELEMENT ANOMALIES OCCUR ON SEVERAL LINES. MOST PREDOMINANT IS THE ANOMALY BETWEEN L49N AND L50N. BEGINNING AT L50N:24E AND EXTENDING TO L50N:24+50E IT TRENDS IN A SOUTHEASTERLY DIRECTION TO L49N:24+25 - 24+60E. VALUES FOR MANGANESE RANGE FORM 254 ppm TO 1259 ppm, IRON RICH THE ANOMALY ALSO CONTAINS THE HIGHEST COPPER AT 210 ppm. ZINC VALUES RANGE FROM 69 ppm TO 154 ppm. BARIUM AND CALCIUM MERIT AN MENTION AT RESPECTIVE HIGHS OF 576 ppm AND 1.55%. THIS ANOMALY HAS AN OVERALL TREND OF NORTHWEST/SOUTHEAST.

A SINGLE-ELEMENT NON-CONFORMITY IS SEEN WITH THE ARSENIC NUMBERS ON L50+50N:24+ 50E - 25+50E, AND EXTENDING L50N BETWEEN 24+60E AND 24+80E. THIS ONE HAS AN EAST/WEST TREND AND INCLUDES THE AREA OF THE MAIN SHOWING. A VALUE OF 338 ppm ARSENIC WAS OBTAINED AT L50+50N:24+75E IT WAS THE HIGHEST RECORDED IN A SOIL.

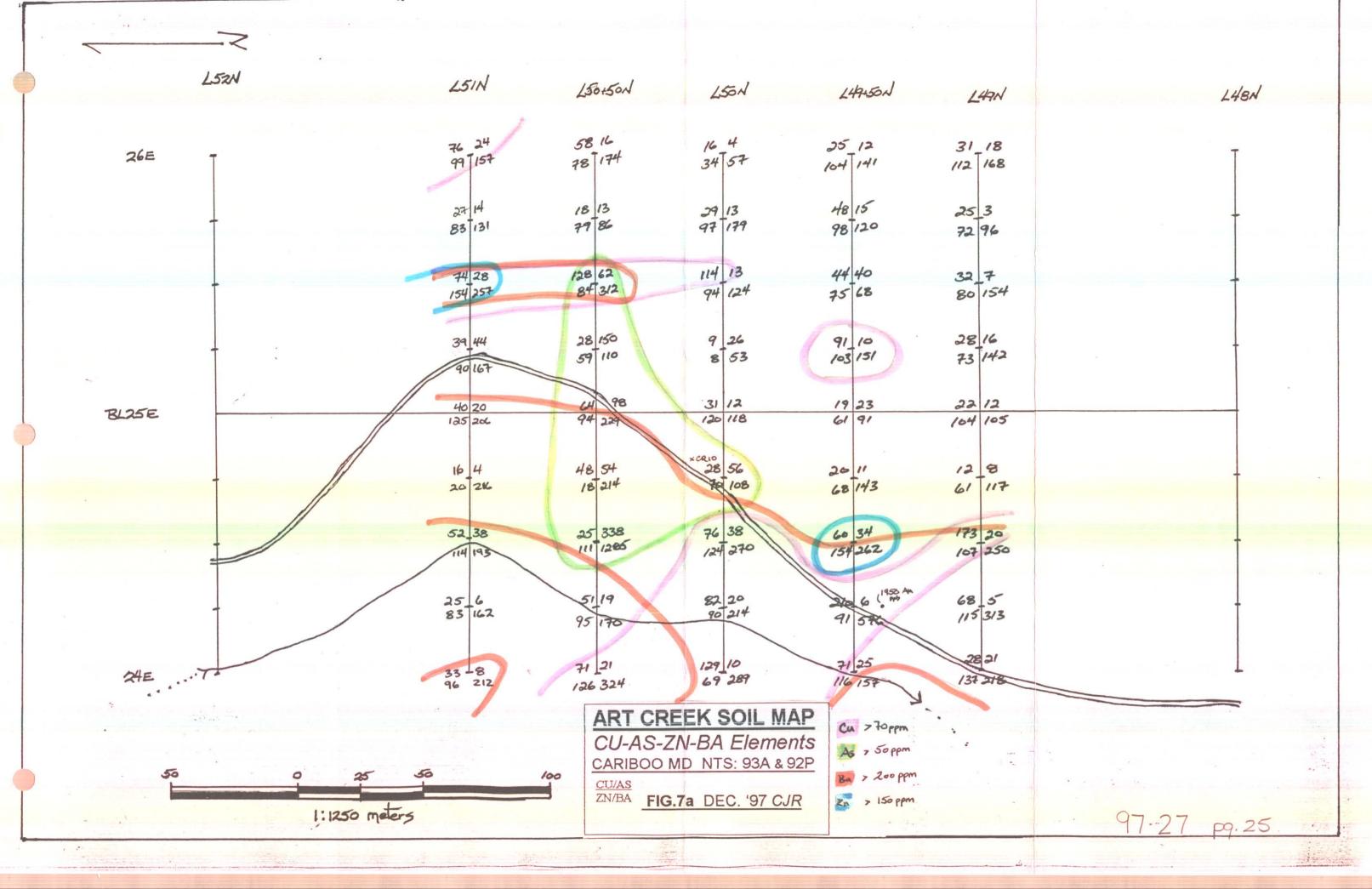
¹ SEE FIGURE 7: ART 1-4 CLAIMS SOIL GRID LOCATION MAP

² SEE APPENDIX FOR LABORATORY SHEETS

³ SEE FIGURES: 7a AND 7b FOR SOIL ELEMENT MAPS



L48N 97-27 pg. 24



A SINGLE - ELEMENT COPPER ANOMALY TRENDS N/S. FROM L51N TO L50N: 24+50E. TWO SPOT ANOMALIES ARE SEEN AT L49+50N: 25+25E AND L51N:26E. AT L49+50N: 24+25E, A COPPER VALUE OF 210 ppm WAS RETURNED. CO-INCIDENTALLY A ROCK SAMPLE TAKEN APPROXIMATELY 10 METERS TO THE SOUTH, ART97:DR4, RETURNED VALUES OF 1950 ppb GOLD AND 210 ppm COPPER.

BARIUM FORMS A LARGE OPEN ENDED ANOMALY BETWEEN L51N:25E - 24+60E AND EXTENDING THROUGH L50+50N:25E - 24+75E, L50N:24+75E AND OPEN TO THE WEST, L49+50N:24+25E -24E AND L49N:24+50E AND OPEN TO THE WEST AND SOUTH. THIS ANOMALY IS ALSO OPEN TO THE NORTH. ON LINES 51N AND 50+50N AT 25+50E BARIUM FORMS A SMALL ANOMALY ALONG WITH COPPER, ARSENIC, MANGANESE AND IRON. THE HIGHEST VALUE FOR **BARIUM, 1285 ppm** WAS RETURNED FROM A SOIL TAKEN AT L50+50N:24+50E. THE SAMPLE IS DOWNSLOPE OF THE MAIN SHOWINGS. APPROXIMATELY 50 METERS.

A FINAL MENTION SHOULD BE MADE IN RESPECT TO **SILVER**. THE HIGHEST VALUE RETURNED WAS **3.3 ppm** ON L50+50N:BL25E. A SLIGHT TREND CAN BE SEEN TO THE HIGHEST VALUES BEGINNING IN THE NORTH WITH THE AFOREMENTIONED SAMPLE AND TRENDING IN A SOUTHWEST MANNER TO L50N:24+50E WHERE **1.6 ppm** IS REPORTED, THEN TO L49+50N:24+50E WHERE THE SECOND HIGHEST VALUE OF **2.3 ppm** IS SEEN. TWO SPOT ANOMALIES CAN BE SEEN ON L50+50N AND L50N, BOTH AT 24E

SILT SAMPLES IN THE AREA GENERALLY RETURNED INSUFFICIENT DATA TO SUPPORT INTERPRETATION. MAGNESIUM IS ANOMALOUS FOR ALL THE SILTS, HOWEVER ONLY TWO SAMPLES WERE ANOMALOUS FOR OTHER ELEMENTS.

97PAG: CS2 IS HIGHLY ANOMALOUS FOR MAGNESIUM AT 1699 ppm AND BARELY ANOMALOUS FOR BARIUM AT 185 ppm. 97PAG:CS 5 IS HIGHLY ANOMALOUS FOR MAGNESIUM AT 1154 ppm, AND IS VARIABLY ANOMALOUS FOR VANADIUM AND BARIUM AT 123 ppm AND 157 ppm.

97PAG: CS3 TAKEN SOUTH OF THE MAIN SHOWING APPROXIMATELY 700 METERS RETURNED 4710 ppm MAGNESIUM, A ZINC VALUE OF 127 ppm, 124 ppm NICKEL, 152 ppm CHROMIUM AND ELEVATED BARIUM. 97PAG:CS6 TAKEN OVER A KILOMETER NORTH AND WEST OF THE MAIN SHOWING IS SLIGHTLY ANOMALOUS IN ZINC AT 109 ppm, CHROMIUM AT 113 ppm, MAGNESIUM IS LOWEST IN THIS SAMPLE AT 989 ppm AND AGAIN BARIUM IS ELEVATED.

CELTIC CLAIMS¹

THE CELTIC 1-4 CLAIMS WERE STAKED TO COVER AN EXPOSURE OF STAUROLITE/ANDALUSITE OCCURRING IN THE SCHIST ROCKS OF THE SNOWSHOE FORMATION.

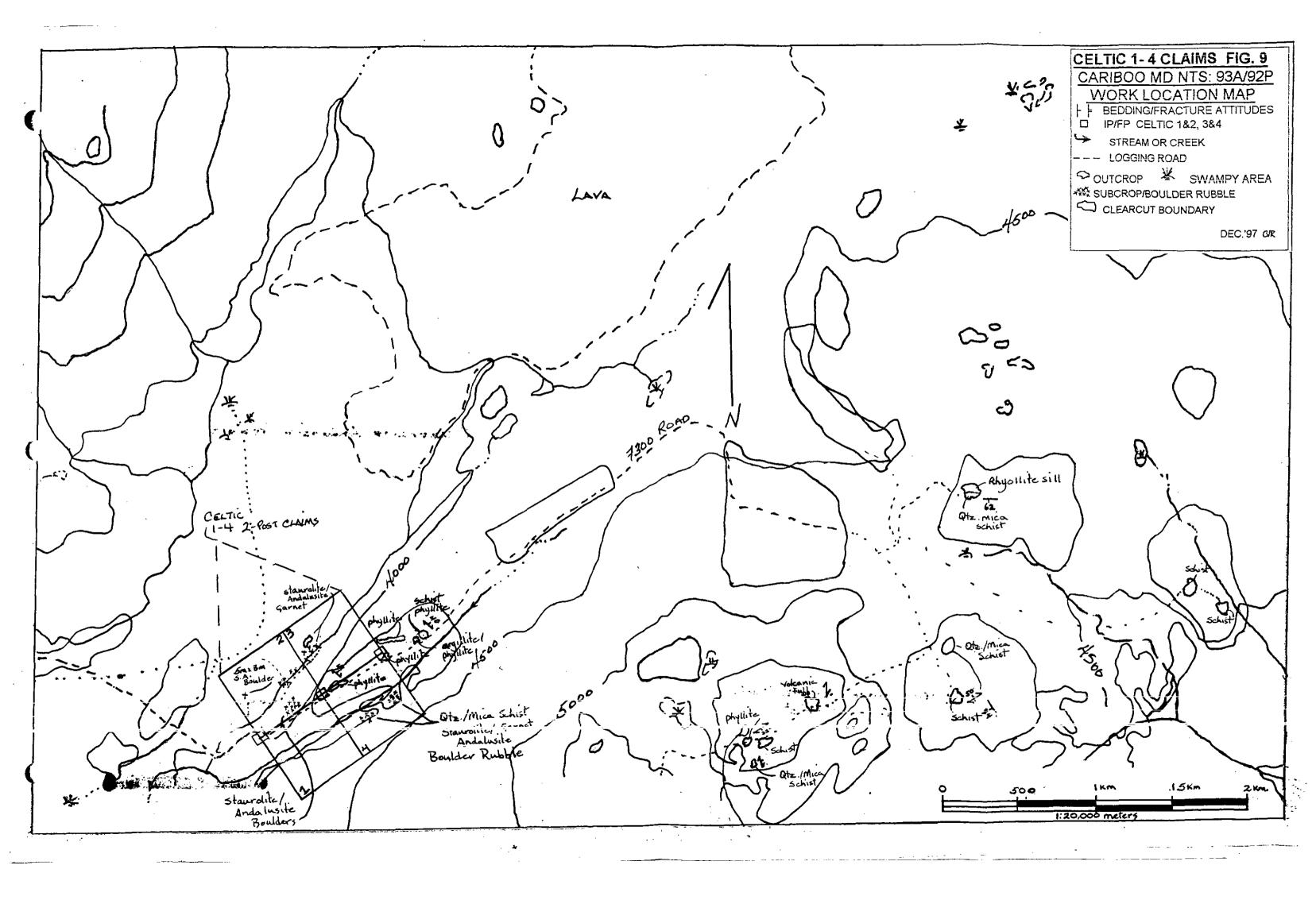
SEVERAL TRAVERSES WERE RUN IN THE AREA. MAPPING AS WELL AS THE COLLECTION OF HAND SPECIMENS WAS CARRIED OUT WHERE OUTCROP EXPOSURE COULD BE FOUND. AS YET NO OTHER EXPOSURES OF THE STAUROLITE/ANDALUSITE AND/OR GARNET HAVE BEEN FOUND. HOWEVER CLEAR-CUTS PLANNED FOR THE NEXT FEW YEARS MAY AID IN REVEALING FURTHER MATERIAL.

CRYSTALS OF BOTH MINERALS OCCUR IN GREAT QUANTITIES IN THE AREA OF THE CLAIMS WELL-FORMED CRYSTALS CAN BE FOUND BOTH IN FLOAT AND IN OUTCROP, ANDALUSITE CRYSTALS UP TO 5 CENTIMETERS IN LENGTH AND WELL-FORMED STAUROLITE CROSSES ARE ABUNDANT. THOUGH NOT AS COMMON, GARNET OF A DEEP ROSE HUE CAN ALSO BE FOUND.

SURFICIAL ANDALUSITE CYRSTALS ARE WELL WEATHERED SUBTRANSLUCENT TO OPAQUE WITH UNEVEN SUBCONCHOIDAL FRACTURING OF THE PRISMATIC ORTHOHOMBIC CRYSTALS. THE COLOR VARIES FROM WHITISH TO ROSEY-RED.

"ANDALUSITE IS A MEMBER OF THE SILLIMANITE GROUP OF MINERALS CONSISTING OF ANDALUSITE, KYANITE AND SILLIMANITE.

1 see Fig. 9: Celtic claims Work Location





STANROLITE / Andalusite Crystals



IT OCCURS IN METAMORPHOSED ROCKS OF CLAY-LIKE COMPOSITION, AS IN THE ANDALUSITE-HORNFELSES IN THERMAL AUREOLES(CONTACT METAMORPHISM), FORMED UNDER CONDITIONS OF HIGH TEMPERATURES AND LOW STRESS, AND IN REGIONAL METAMORPHIC ROCKS, SUCII AS THE ANDALUSITE-SCHISTS.

MOST OF THE ANDALUSITE OCCURS AS THE VARIETY CHIASTOLITE. THE CRYSTALS WHEN CUT OR BROKEN ACROSS EXHIBIT DEFINITE CRUCIFORM GROWTH PATTERNS WHICH ARE DUE TO IMPURITIES ENCLOSED IN THE CRYSTALS DURING THEIR FORMATION.

ALTHOUGH THE FIRST USE OF ANDALUSITE WAS IN THE MANUFACTURE OF CERAMIC SPARK PLUGS, THE BULK OF THE ANDALUSITE PRODUCTION IS NOW USED IN THE REFRACTORIES INDUSTRY, WITH RELATIVELY SMALL QUANTITIES USED IN OTHER APPLICATIONS SUCH AS CERAMICS, ABRASIVES, AND FILLER MATERIALS. ANDALUSITE IS CLOSELY RELATED TO DEVELOPMENTS IN THE STEEL INDUSTRY. SOME APPLICATIONS WHERE ANDALUSITE REFRACTORIES AND CERAMICS ARE USED INCLUDE: STOVE BRICKS AND CHECKERS; DIRECT REDUCTION KILNS; BLAST FURNACE STACK AND RUNNERS; TORPEDO, TRANSFER, AND CASTING LADLES; HOT METAL MIXERS; AND INDUCTION FURNACES IN THE STEEL INDUSTRY.

SOUTH AFRICA HOLDS THE LARGEST KNOWN MINABLE ANDALUSITE DEPOSITS IN THE WORLD, ESTIMATED AT SOME 70 Mt OF KNOWN IN SITU RESERVES, OF WHICH APPROXIMATELY 35 Mt ARE ECONOMICALLY RECOVERABLE USING CURRENT METHODS (HAMMERBECK, 1986).

MORE THAN HALF THE ANDALUSITE PRODUCED IN SOUTH AFRICA IS EXPORTED TO OTHER COUNTRIES. IT IS THEREFORE VERY CLEAR THAT TRANSPORT IS A VERY BIG COST COMPONENT IN THE PRICE OF ANDALUSITE.

STAUROLITE AND ALMANDINE GARNET FREQUENTLY ACCOMPANY THE OCCURRENCE OF ANDALUSITE AND, WHERE PRESENT IN COMMERCIAL QUANTITIES, THEY ARE RECOVERED AND SOLD AS ABRASIVE AGGREGATES."²

DARK BROWN TRANSLUCENT TO TRANSPARENT STAUROLITE CRYSTALS PRISMATIC AND PSEUDO-ORTHORHOMBIC IN SHAPE COMMONLY INTERGROWN AT RIGHT ANGLES (TWINNED)AND FORMING A CROSS OCCUR IN VARIOUS SIZES. CRYSTALS OF SEVERAL MILLIMETERS IN LENGTH ARE COMMON.

ALMANDINE GARNET IS MOSTLY SEEN AS DODECAHEDRAL CRYSTALS RANGING IN SIZE FROM MICROSCOPIC TO FIVE MILLIMETERS IN DIAMETER. IT GENERALLY IS FOUND SEPARATELY FROM STAUROLITE AND ANDALUSITE THOUGH IN SIMILAR ROCK.

THESE MINERALS ARE FOUND IN GREY-BLACK QUARTZ-MICA-BIOTITE SCHIST WITH NUMEROUS QUARTZ VEINS AND LENSES. THE ROCK IS WELL FOLIATED AND BANDED IN APPEARANCE.

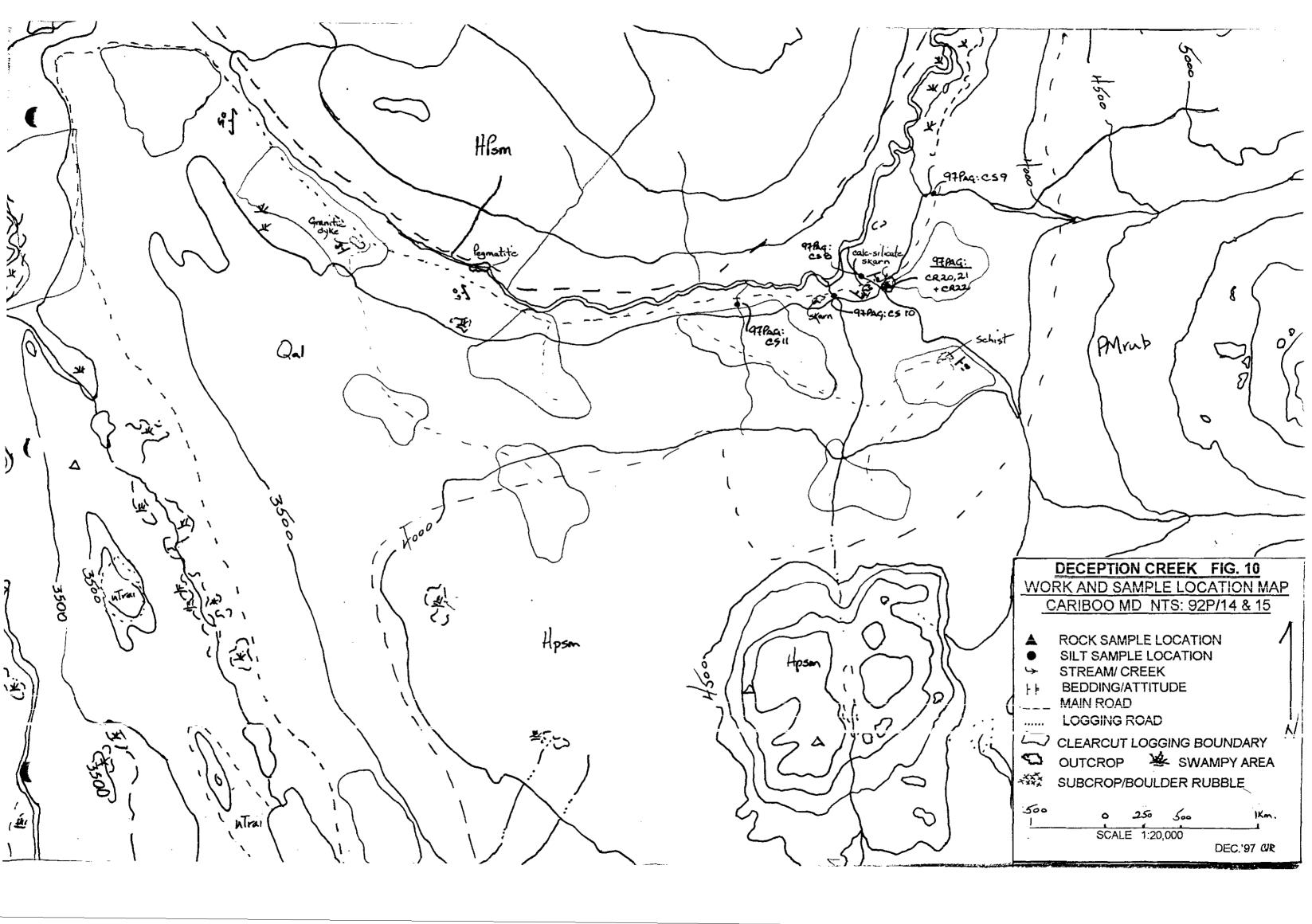
NONE OF THE MINERALS IS BELIEVED TO BE IN SUFFICIENT QUANTITY AT THIS TIME TO PROVE OF ECONOMIC VALUE. HOWEVER IT IS SUFFICIENT FOR PURPOSES OF ROCK COLLECTION AND STUDY. IT IS THIS LATTER ROUTE THAT THE AUTHOR IS EXPLORING CURRENTLY. STAUROLITE ESPECIALLY IN CROSS FORM DOES NOT OCCUR FREQUENTLY IN NORTH AMERICA THUS MAKING THE SITE A VIABLE COLLECTION AREA.

SPECIMENS HAVE BEEN FORWARDED TO CERTAIN AGENCIES SPECIALIZING IN ROCK COLLECTIONS AND RETAIL MARKET SALES. COMMERCIAL COLLECTING BY THE PUBLIC WILL BE OFFERED AS PART OF A BUSINESS VENTURE PRESENTLY BEING STUDIED BY THE AUTHOR.

DECEPTION CREEK SURVEY AREA³

SEGMENTS OF THE DECEPTION CREEK AREA HAD SEEN PRIOR WORK IN THE FORM OF SILT AND ROCK SAMPLING DURING A REGIONAL PROGRAM FOR PIONEER METALS IN THE EARLY 1990'S. NO TARGETS WERE DEFINED AS A RESULT OF THIS WORK. HOWEVER PEGMATITE BODIES AND SUBCROP RUBBLE WERE IDENTIFIED AND NOTED AT THE TIME.

QUOTED FROM 'INDUSTRIAL MINERALS AND ROCKS, 6th EDITION, DONALD D. CARR (EDITOR), 1994 SEE FIGURE 10: DECEPTION CREEK WORK AND SAMPLE LOCATION MAP



AS A FURTHER RESULT OF TALKS WITH NOTED INDUSTRIAL GEOLOGIST GEORGE SIMANDL CONCERNING LIKELY OCCURRENCES OF PRECIOUS GEMS IN PEGMATITE'S OF SIMILAR ENVIRONMENTS, TWO DAYS WERE SPENT MAPPING OUTCROP, AND SAMPLING STREAMS AND MINERALIZED ROCK.

THE AREA LIES NEAR THE CONTACT OF THE QUESNEL AND BARKERVILLE TERRANES, THE BOUNDARY OF WHICH IS MARKED BY THE EUREKEA THRUST COMPRISED OF MAFIC TO ULTRA-MAFIC METAVOLCANIC ROCKS. IN 1982 THE JEZEBLE CLAIMS WERE STAKED TO EXAMINE THE AREA. THE WORK REVEALED THE PRESENCE OF AN UNMAPPED GRANITIC INTRUSIVE. THE REPORT STATES THAT THE METASEDIMENT PACKAGE VARYS IN COMPOSITION FROM BEING QUARTZ-RICH IN THE WEST THROUGH AN ALLUMINA-RICH PHASE TO SLIGHTLY CALCAREOUS SEDIMENTS IN THE EAST. THE SEDIMENTS ARE STRATIGRAPHICALLY LOWER THAN THE QUARTZ-RICH ONES, WHICH SUGGESTS A REGRESSIVE SEQUENCE. IN LIGHT OF THESE FINDINGS THERE IS A REAL POSSIBLITY OF LIMESTONE BEDS EXISTING LOWER IN THE SEQUENCE. THESE BEDS COULD HOST SKARN DEPOSITS (AR#10641)

DURING PRELIMINARY PROSPECTING IT WAS NOTED THAT CERTAIN ROCKS DISPLAYED SKARN ALTERATION. OUTCROPS OF CALC-SILICATE WELL-MINERALIZED WITH PYRRHOTITE, PYRITE, GARNET AND DIOPSIDE WERE SAMPLED. SPECIMENS OF ACTINOLITE CONTAINING PYROXENE AND GARNET CRYSTALS WERE ALSO TAKEN. SILICIFIED RHYOLLITE OUTCROP MINERALIZED WITH PYRITE IN EUDHEDRAL CRYSTALS WAS MAPPED AND SAMPLED.

97PAG:CR20 IS A SAMPLE OF LIMEY BIOTITE SCHIST CONTAINING PYRITE, PYRHHOTITE AND GARNET STRIKING 253' AND DIPPING 18' SOUTH. THIS SAMPLE RESULTED IN ELEVATED STRONTIUM AND CALCIUM NUMBERS.

97PAG:CR21 IS A SAMPLE OF SILICEOUS FELSIC INTRUSIVE WITH PYRITE WELL DISSEMINATED THROUGHOUT. THE OUTCROP TRENDS 010' WITH SLIGHT WESTERLY DIP. NO ECONOMIC VALUES WERE YIELDED BY THIS SAMPLE.

97PAG:CR22 IS FROM A SILICA RICH INTRUSIVE DYKE STRIKING 172', DIPPING 50 E. PYRITE WAS PRESENT IN MINOR QUANTITIES BUT NO VALUES OF INTEREST WERE RETURNED.

FREE-FLOWING CREEKS WERE SILTED **97PAG:CS8, 9 & 10** WERE SLIGHTLY ELEVATED IN NICKEL BUT NOTICEABLY LACKING IN OTHER ECONOMIC MINERALS.

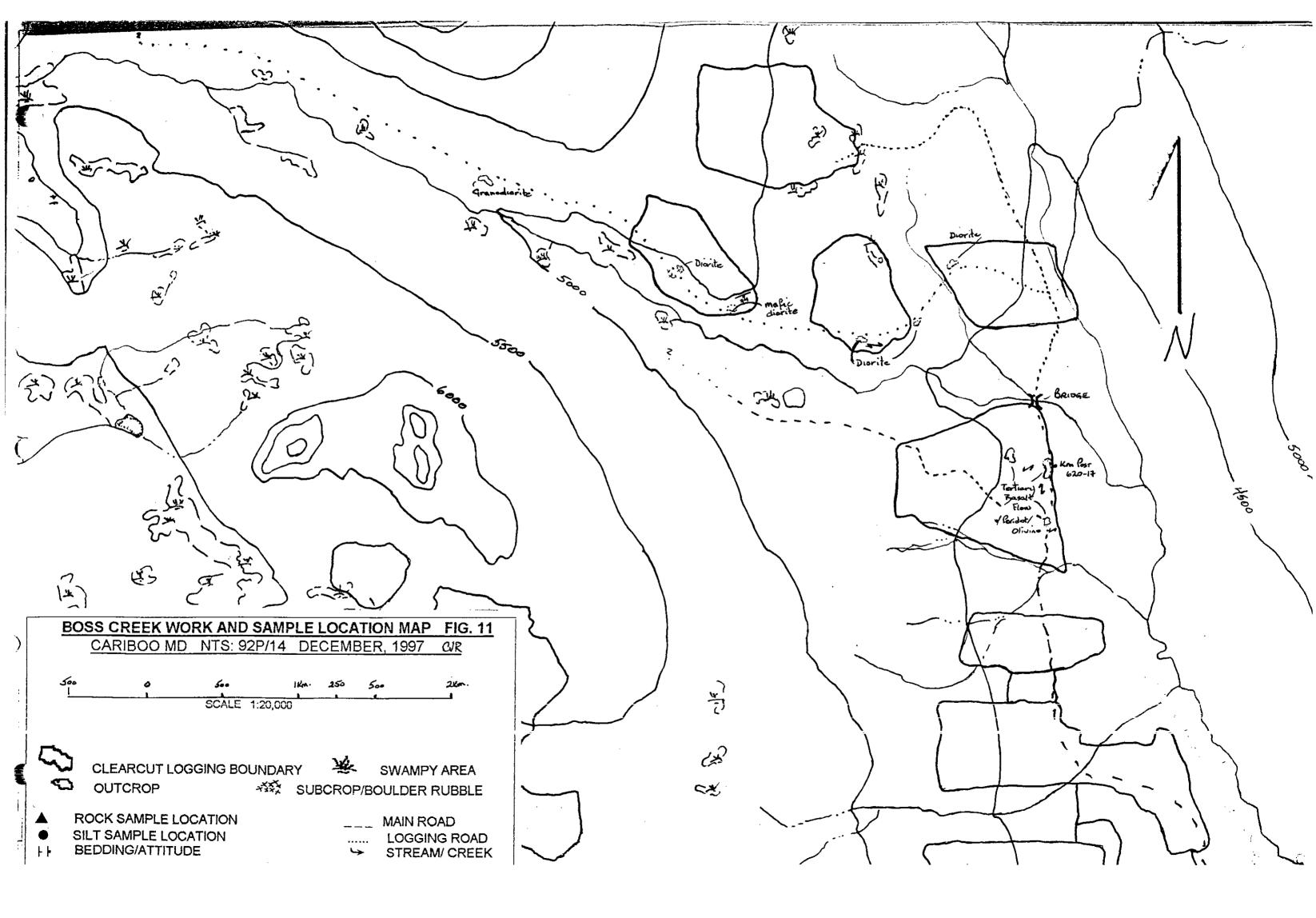
THOUGH PEGMATITE'S WERE OBSERVED THEY WERE BARREN OF ANY GEM MATERIAL. ROCKS IN THE AREA MANIFEST A DISTINCT EAST/WEST TREND WITH A STRONG WESTERLY DIP.

BOSS CREEK SURVEY AREA¹

WORK IN THE BOSS CREEK AREA PRIMARILY CONSISTED OF MAPPING AND HAND SAMPLE COLLECTION. THIS AREA WAS GIVEN ATTENTION IN ORDER TO DETERMINE IF THE PROPOSED MINERALIZED FAULT TREND APPARENT ON THE HEN PROPERTY INDEED EXISTED. DURING PROSPECTING AN OUTCROP OF PERIDOT SIMILAR IN CONTENT AND MAKE-UP TO THE OUTCROPS ON TAKOMKANE MOUNTAIN TO THE NORTHWEST WAS IDENTIFIED AND MAPPED.

PERIDOT OR 'EVENING EMERALD', A LIMEY-GREEN TRANSPARENT FORM OF CHRYSOLITE, IS FOUND IN TERTIARY VOLCANIC ROCKS FORMING THE SUMMIT OF TAKOMKANE MOUNTAIN. THE REMARKABLE FEATURE OF THE FIND IS THE QUANTITY OF VOLCANIC BOMBS OCCURRING IN THE AREA. THESE BOMBS CONTAIN THE CHRYSOLITE VARYING CONSIDERABLY IN CHEMICAL COMPOSITION. THE MOST COMMON FORM IS DARK BOTTLE - GREEN IN COLOR. PERIDOT OCCURS IN SOME OF THE BOMBS AS SINGLE CRYSTALS OR MASSES OF CRYSTALS.

¹ SEE FIGURE 11: BOSS CREEK WORK AND SAMPLE LOCATION MAP



THE PERIDOT/OLIVINE OBSERVED HERE IS CONTAINED IN FLOWS. NO BOMBS WERE YET NOTED IN THE AREA.

GRANODIORITES AND DIORITES OF THE TAKOMKANE BATHOLITH AND JURASSIC VOLCANICS PREDOMINATE THE AREA. K-SPAR AND EPIDOTE ALTERATION IS PERVASIVE IN THE FELSIC PYROCLASTIC ROCKS. PREVALENT TREND TO THE ROCKS IS 238'. IT COULD NOT BE CONCLUSIVELY DETERMINED WHETHER OR NOT THE PREVIOUSLY MENTIONED FAULT TREND EXISTS IN THE AREA.

NO SAMPLES WERE TAKEN HERE FOR ANALYSIS AS NO MINERALIZED OUTCROP WAS PERCEIVED.

HENDRIX MOUNTAIN AND DIETRICH CREEK SURVEY AREAS¹

SEVERAL DAYS WERE SPENT IN CLOSE PROXIMITY TO THE HEN-LEDGE-DL CLAIM BOUNDARIES IN ORDER TO TRACE ANY MINERALIZATION FOUND TO BE TRENDING OFF THE CLAIMS.

97PAG:CR1 IS FROM A CLEAR-CUT TO THE WEST OF THE 6000RD AND NORTH OF THE 6300RD. IT IS A SAMPLE OF AUGITE PORPHYRY THAT HAS BEEN HORNFELSED AND SILICA ENRICHED. COPPER IN THIS SAMPLE WAS SLIGHTLY ELEVATED AT 107 ppm.(CLEAR-CUT #1)

97PAG:CR2 IS TAKEN FROM THE SAME CLEAR-CUT. IT IS OF A VOLCANIC TUFF WITH MINOR PYRITE AND PYRRHOTITE. NO VALUES OF ANY INTEREST WERE RETURNED FOR THIS SAMPLE.

BOTH SAMPLES WERE FROM FLOAT AND THE ONLY OUTCROP FOUND WAS AUGITE PORPHYRY THAT STRIKES 218' AND DIPS 68' TO THE NW. TILL OF TERTIARY ORIGIN DOMINATES THE TERRAIN.

SEVERAL TRAVERSES WERE RUN IN CLEAR-CUTS TO THE NORTH AND SOUTH OF THE CLAIM BOUNDARY AND HAND SAMPLES WERE COLLECTED WITH ANY OUTCROP BEING MAPPED. MINERALIZATION AND/OR ALTERATION WAS SCANT IN THE SECTORS COVERED AND NO SAMPLES WERE OBTAINED FOR ANALYSIS.

TWO SILT SAMPLES WERE TAKEN IN A CLEAR-CUT NORTH OF THE HEN-LEDGE BOUNDARY AND DRAINING AN AREA OF MAINLY BASALTIC TUFFS. MAIN TREND TO THE ROCK IS 096'. 97PAG:CS1 IS SLIGHTLY ELEVATED IN ZINC AT 135 ppm. 97PAG:CS4 CONTAINED 2.0 ppm CADMIUM AND 127 ppm ZINC. (CLEAR-CUT #2)

HORNFELSED AUGITE PORPHYRY OCCASIONALLY WITH GARNETIFEROUS CONTENT AND TRENDING GENERALLY AT 215' TO 252' WAS MAPPED AND TAKEN FOR HAND SAMPLES IN A CLEAR-CUT NORTH OF THE LEDGE CLAIMS.(CLEAR-CUT #3)

THREE DAYS WERE ALSO SPENT ON MOUNT HENDRIX MAPPING OUTCROP. AS WATER WAS SCARCE ON THE MOUNTAIN ONLY ONE SILT SAMPLE WAS TAKEN **97PAG:CS15**. NO INTERESTING VALUES WERE RETURNED FOR THE SILT. ROCKS ON HENDRIX ARE PREDOMINANTLY AUGITE PORPHYRY -AUGITE-HORNBLENDE PORPHYRY. ANDESITIC AGGLOMERATE WAS ALSO OBSERVED CLOSE TO THE PEAK. NO MINERALIZATION OR ALTERATION WAS NOTED. DOMINANT TREND OF THE ROCKS IS 010' WITH AN EASTERLY DIP.(AREA 1)

SNOW BLANKETED THE DIETRICH CREEK AREA WHEN TRAVERSES WERE FINALLY UNDERTAKEN LIMITING THE ACCESSIBILITY TO OUTCROP.

ARGILLACEOUS SEDIMENTS AND PHYLLITES FORM THE OUTCROPS OBSERVED. NO MINERALIZATION OR ALTERATION WAS OBSERVED. OVERALL TREND HERE IS 320'.(AREA #2)

THE TERTIARY FLOWS ON TAKOMKANE MOUNTAIN CONTAIN PERIDOT/OLIVINE CRYSTAL FORMATIONS AND MINOR GEMSTONES. PART OF THE FLOW HAS BEEN STAKED AND IS INCLUDED IN THE SILVER BOSS CLAIMS BELONGING TO D. RIDLEY. THE AREA IS INCLUDED IN THE PROJECT BOUNDARY. IN AN ATTEMPT TO DISCOVER ADDITIONAL MATERIAL TRAVERSES WERE RUN OFF

¹ SEE FIGURE 12; HENDRIX MOUNTAIN WORK LOCATION MAP



THE CLAIMS EXAMINING THE FLOWS ON THE WEST FLANK OF THE SOUTHERN MOST CONE. NUMEROUS BOMBS CONTAINING CHRYSOLITE/OLIVINE WERE FOUND THOUGH MUCH WORK IS NEEDED TO FREE THE CRYSTALS FROM THE ROCK. SAMPLES OF THE PERIDOT HAVE BEEN SHOWN TO LOCAL MERCHANTS INTERESTED IN ROCKS AND MINERALS FROM NEARBY LOCALES. (AREA #3)⁴

CONCLUSIONS AND RECOMMENDATIONS

THE 1997 FIELD SEASON RESULTED IN THE IDENTIFICATION OF A NEW GOLD SHOWING AND THE CATALOGING OF TWO NEW INDUSTRIAL MINERAL SITES.

- A ZONE OF STRUCTURALLY CONTROLLED mineralization WAS DISCOVERED IN THE ART CREEK AREA. THE ART SHOWING CONSISTS OF PYRITE-ARSENOPYRITE MINERALIZATION ASSOCIATED WITH A KAOLIN-SERICITE ALTERED FAULT AT THE CONTACT BETWEEN RHYO-DACITE AND BASALT IN CLOSE PROXIMITY TO A SMALL, PARTLY UN-ROOFED, INTRUSION OF HORNBLENDE-BIOTITE GRANODIORITE. THE FAULT CAN BE TRACED AS STRONG LINEAMENTS ON AIR PHOTOS FOR AT LEAST 10 KILOMETERS. HIGH ARSENIC AND ELEVATED GOLD, ZINC AND CADMIUM MAKE THIS AREA A VIABLE TARGET FOR FURTHER EXPLORATION. A SILT SAMPLE FROM MCKINLEY CREEK TAKEN DURING THE 1980'S RETURNED 260 ppb GOLD. THE SAMPLE SITE IS APPROXIMATELY FIVE KILOMETERS NORTH AND ON STRIKE WITH THE ART SHOWING.
- THOUGH SOIL RESULTS AT THE ART SHOWING WERE SPOTTY THEY DID AID IN DELINEATING TWO INTERESTING ANOMALOUS ZONES WHICH ARE COINCIDENT WITH THE MINERALIZED SHOWING.
 - FURTHER GRASS-ROOTS PROSPECTING ON AN EXTENDED SOIL GRID CONSISTING OF ROCK SAMPLING AND A GEOPHYSICAL SURVEY MAY HELP TO UNCOVER AN EXTENSION OF THE MINERALIZED ZONE,
- THE CELTIC STAUROLITE/ANDALUSITE SHOWING THOUGH NOT OF ECONOMIC INTEREST AT PRESENT DUE TO THE LOW QUALITY OF THE INDUSTRIAL MINERALS IS AN INTERESTING DISCOVERY IN LIGHT OF THE INCREASING DEMAND FOR ROCK HOUNDING LOCATIONS. THE FACT THAT STAUROLITE IS NOT COMMONLY FOUND IN OUR PROVINCE IN SUCH GOOD CRYSTAL FORM ENFORCES ITS VIABILITY AS A COLLECTION SITE.
 - ADDITIONAL TRAVERSES ARE NEEDED TO EXPLORE THE POSSIBILITY OF MORE OUTCROP IN THE AREA. HOWEVER THE MATERIAL NOW AVAILABLE IS MORE THAN ENOUGH TO ESTABLISH THE CLAIMS AS A FEASIBLE COLLECTION SITE.

- THE NEW PERIDOT/OLIVINE SHOWING ON THE 6200 RD (BOSS CREEK) NEEDS MORE EXPLORATION IN ORDER TO UNCOVER POSSIBLE COLLECTABLE MATERIAL. UNLIKE THE SHOWING ON TAKOMKANE MOUNTAIN WHERE CRYSTALS CAN BE EASILY OBTAINED IN LOOSE SURFACE MATERIAL, THE CRYSTALS APPARENT IN THE NEW SHOWING ARE ENCASED IN COMPETENT ROCK MAKING THE EXTRACTION A LENGTHY PROCESS.
 - FURTHER TRAVERSES ARE NEEDED IN ORDER TO DETERMINE IF PYROCLASTIC BOMBS CONTAINING THE MINERALS EXIST IN THE AREA. EXTRACTION OF CRYSTALS WOULD BE GREATLY AIDED IF THIS PROVED TO BE THE CASE.
- THE DECEPTION CREEK AREA BEARS MORE STUDY IN LIGHT OF THE DISCOVERY OF THE CALC-SILICATE BODIES UNCOVERED DURING THIS YEARS PROGRAM. TUNGSTEN SILT ANOMALIES ARE KNOWN TO EXIST IN CREEKS ON THE NORTH SIDE OF DECEPTION CREEK. THESE ANOMALIES AND THE PRESENCE OF SKARN IN THE AREA MAKE IT A VIABLE TARGET FOR FURTHER EXPLORATION OF THE AREA.
 - ROCK AND SILT SAMPLING ON THE NORTH SIDE OF DECEPTION CREEK AND IN CLEAR-CUTS AS YET UNEXAMINED MAY HELP TO UNCOVER FURTHER SKARN MINERALIZATION/ALTERATION IN THE AREA.

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- D.G.MacINTYRE
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- G.T.NIXON and J.L.HAMMACK
- A.PANTELEYEV
- G.E.RAY and I.C.L.WEBSTER

GEOLOGY AND MINERAL DEPOSITS OF THE QUESNEL RIVER - HORSEFLY MAP AREA, CENTRAL QUESNEL TROUGH, BC NTS MAP SHEETS 93/5, 6, 7, 11, 12, 13; 93B/9, 16; 93G/1; 93H/4 BULLETIN 97

- A. PANTELEYEV, P.ENG
- D.G.BAILEY, P.GEO.
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- DAVID WAYNE RIDLEY, PROSPECTOR

GSC GEOPHYSICS PAPER 5235; McKINLEY CREEK; NTS 93A/2; AEROMAGNETOMETER SURVEY, 1967 MAP #5235

PRELIMINARY EXAMINATION OF HEN 1-4 FOR SUN JOINT VENTURE, PRIVATE REPORT 1993

DAVID BLANN

PROSPECTING AND TRENCHING REPORT ON THE HEN GROUP AR# 23214

- DAVID RIDLEY
- DAVID DUNN

(•			ROC	SAMPLE SHEET		(
Sampler_(Date		Ridler ver/97		Property	97 PAG N	ITS .		-		<u>934</u> ?
SAMPLE	Sample	·	DESCRIPT	·····	_1	ppm	<u></u>	<u>.SS/</u>	AYS)
ND.	Width	Rock Type		Mineralization	ADDITIONAL OBSERVATIONS				As	
97 PAG CRI	grab	Augite Porph.	Qtz. HEised	minor Ry	973:6534558 3406 ELEN Instaliat 5769489N - 350/00 Wol 6300R - 5tkwrk atz vains	107	3	30	7	12
CRZ	comp. grab		silica	minor Ry /Po	GPS 593E 1100m.clev. 952N -S.C. rubble -?poss.tuff		6	15	- 22	42
CR3	grab		-	-	GBS:663900E 4180'elev. Artck 5761810N Sput - ?sc - Qtz Bldr.		23	7	12	15
CR4	grab	Augite Porphyry		Minor Ry /Po	-1.25 m. N from CR3 # 5r - 3041ppm - 024%72°E	274	18	23	4	8
CR5	3.5m	ultra mafie	chlorite silica	Ryrite	- 20 m. NW from CR4/E. Side of Rd. * Ni-660ppm. - 144*/72*5.W. CR-795ppm	66	7	22	7	<i>8</i> 8
CR6	grab	ultra. mafic	1.5		663929E #Ni-943ppm 5762519N CR-H9ppm -foliation(3)058° - Strend 314° CO-103 4		23	31	29	42
CR7	grab	Fault Breccia	silica calcite	Pyrite	- 50m. Not CR6 663930E Artck. - 352°/78°W		11	67	12	2
CR8	45cm	Qtz. Vein	-	Pyrite	70m. N from CR7 4295'clev. Artck -298°/88°NE	147	52	92	114	18
	grab	intrustie Breccia	epidote	Pyrite	-Nfrom CR8 - epidde stkwrk Artck - 1710/90°	23	5	33	22	4
	grab	Rhyo- dacite		Ririte = 33	-N of CR9 - 5m wide Qtz vein cuts RX. - 1809/86°W	11	20	7	1371	167
CRI	30cm	Aug.te Porphyry	chlonte calcite	Pyrite	-Noj CRII -1309/900		16	50	10	3
CRIZ	30cm	Breceica		2% Ryrite	@ 1030 m. from Y Artck by -fracture zone -trend 334	161	3	53	38	3
1 1	comp. grab	Volcanic	calcite chlorite Diopside	Ryrite	2.9 miles (Bike) from 7000 ied. Burtt St.	14	<3	23	24	<1
	Grab	Rault Gonge	chlorite catele silica		A: (43.9 (PPm)	178	25	1055	36	6
<u>ث</u> د 15	יז זטכיות. ו	ay. 1:4	h <u>t</u>		APTCA.	1.91)) [3044	<u>e</u> 1	12

P-PHID R-DAR C-FINAT

(ROC	SAMPLE SHEET		((
Sampler Date		Ridley ex/97		Property	97 PAG	NT	s <u>9</u>				
			ESCRIPT	10N			բթո _ւ -	<u>A</u>	<u>SSA</u>	15	pbl
SAMPLE NO.	Sample Width	Rock Type	Alteration	Mineralization	ADDITIONAL OBSER		Cu	РЬ	Zn	As	Au
97 PAG	grab	· L	hematite	Ryrite	12 m. N of CR10 -N/S major fracture trend	Artck. Rd.	-	17	50	75	22
CRIZ	60cm.	betsic Rhys-dacite	calcite	Py, ASRY	4m. Nol CR10 OC- 83=/90°	Artck Rd. As: 1753(PPA)	16	21	25	_	
CRI8		Felsic Ryho-dacite	N	i v	Im. S from CR17		10	27		7	
		Rhys dieite	calcite	Py	Re-sample CR10 -enhadral Py crystals			77	19	372	87
CR20	Como	LST/. Biolite Shut	calcute	Ri, Po, garnet	GP5: 672399 27 - N of bridge 5769386 N 3 - 001/2580/1805	Deception CK. Rd.	63	4	15	37	2
CR21	3mis	Siliceous		Py	12m. 5. of CR20 0e- 010°/slight dip W		34	5	12	9	<1
		silaceous intriduke		PY	OCR21 - OC -172°/50°E	i l	12	4	17	6	21
CR23	1.4m		Scricite	Py	@CR10 - footwall: 192°/82°W	Antik Actik	<u> </u>	20	27	086	
CR24	30cm	Bhuo-	sencite	PY	@ 5m. N. of CR18 - hanging ward: 1900/70°6	Anzi CK	34	77	21	Sec.	31
un ar		chelle									
007.001	arah	Rhyo- clacite	hematite sphalevite	Pr	20m. E. of BL25E: alteration zone i 40cms. wide Zone trend: 0109/60°E		9		98	42	21
ART97DRI ART97DRZ		Hornfels	Qtz Caleite Barite	Rf-21%	ISM. N of DRI Gtzcarbstkinks	48:298 452:774 PP + Ca: 17-62%	14	ч	10	77	21
ART97DE3		Tubb Mafie Voltanie	Qtz.	Py	7m. Noy DRZ Otz-carb StRWK	*59: 359 * Ca: 10.287	1	10	29	17	21
ART 97 DR4	<u> </u>	.1		P.1 -7 10%		* V: 305ppm	210	60	164	35	1950
	0		· · · · · · · · · · · · · · · · · · ·								
	<u> </u>	<u> </u>	1					±			

C-CHIP G-SPAR F-FINAT

102

ACME ANATY	FICA	L LA	BOR	ATOR	IES	LTD	•	85	2 E.	HAS CHE	TING	s s Al <i>i</i>	r. y	ANC	OUVE IS (R BO	C V TIF	GA ICA	LR6 TE		PHO	NE (6	04)2	253-	3158		¥X (6	0412	53-1	.716
££ `	· · · ·			· · · ·	, .		ley	<u>, c</u> .	<u>J.</u>]	PRO	JEC'	r_p <i>i</i>	4G9'	7		e.#	97	-65			age						· · ·	· · ·	Ĩ	1
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %		La ppm		Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L51N 24E L51N 24+25E L51N 24+50E L51N 24+75E L51N 24+75E L51N 25E BL	1 1 3 1 2	33 25 52 16 40	5 12 12 <3 14	96 83 114 20 125	.3 .5 .3 <.3 <.3	42 35 95 22 85	33 18 26 1 18	364 1864 282		8 6 38 4 20	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2 <2	2 <2 <2 <2 <2 <3	39 20 54 182 20	.9 .7 1.2 .4 1.0	ও ও ও ও ও	7 <3 <3	130 100 7	.70 .38 1.01 3.00 .34	.044 .099 .075	3	99 137 6	3.86 2.10 1.50 .12 1.66	162 193 216	.35 .23 .09 .01 .19	8 5 12	4.01 2.67 2.40 .26 2.27	.02	.08 .12 .01	2 3 <2 <2 <2
L51N 25+25E L51N 25+50E L51N 25+75E L51N 26E L50+50N 24E	2 3 2 3 3	39 74 27 76 71	13 13 10 9 12	90 154 83 99 126	.3 <.3 <.3 .3 1.1	97 142 68 32 89	18 23 12 20 22	858 211	5.75 4.39 3.47 5.30 4.10	44 28 14 24 21	9 <8 <8 <8 <8	<> <> <> <> <> <> <> <> <> <> <> <> <> <	2 3 2 ~2	16 21 27 27 42	.5 1.6 .4 1.3 2.0	8 3 3 3 3 3	3 3 3 3 3 3	159 90 69 148 95	.23 .42 .32	.039 .066 .141 .075 .092	20 18 16	202 130 43	2.64 1.52 .95 .92 1.47	257 131 157	.11 .10 .09	3 3 3		.02 .02 .01 .02 .02	.14 .10 .15	<2 2 2 2 2 3
L50+50N 24+25E L50+50N 24+50E L50+50N 24+75E L50+50N 25E BL L50+50N 25+25E	3 43 4 2 2	51 25 48 64 28	12 8 5 18 11	95 111 18 94 59	.4 .7 1.4 3.3 <.3	84 81 26 96 108	6	20037 1481 1422	.81	19 338 54 98 150	<8 <8 12 <8 <8	<> <> <> <> <> <> <> <> <> <> <> <> <> <	~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~2 ~	102 151	1.3 3.2 2.0 3.5 .5	<3 <3 5 4 3	<3	80 15	.30 1.30 4.82 1.25 .19	.159 .132	13 9 8 16 10	105 49 19 131 228	.33 .13		.09 .02 .01 .07 .15	<3 9 <3	2.19 1.23 .72 2.76 1.78	.02 .02	.05 .03 .15	2 2 <2 <2 <2
L50+50N 25+50E L50+50N 25+75E L50+50N 26E L50N 24E L50N 24+25E	1 2 2 2 2	18 58 129	7 9 15 11 12	84 79 78 69 90		198 52 72 89 183	47 10 18 18 22	805 254	6.67 3.18 3.09 3.52 3.45	62 13 16 10 20	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2 <2	<2 2 22 22 22 22 22	53 14 31 78 73	1.8	4 <3 <3 <3 <3	<3 4 <3 <3 <3	77 58 103	.21	.065 .054	17 18 13	572 109 89 134 113	.65 .97	86 174 289	.12 .08 .08	<3 <3 <3	6.04 1.51 2.15 2.95 2.22	.01` .02	.07 .14 .09	4 <2 <2 <2 <2
L50N 24+50E RE L50N 24+50E L50N 24+75E L50N 25E BL L50N 25+25E	3 3 2 2 1	76 81 28 31 9	19 15 11 13 8	70	1.8 .3	119 126 55 53 10	21 23 12 13 2	718 300 319	4.29 4.65 2.63 3.56 1.19	38 41 56 12 26	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2	2 <2 2 3 <2		2.5 2.3 .4 .9 .2	4 <3 <3 <3	ও ও ও ও ও ও	70 75 53 71 31	.88 .24 .16	.053 .056 .062 .100 .028	19 20 16 15 9	157 88 121	1.07 1.16 .74 .86 .14	293 108 118	.09 .09 .09 .10 .05	8 <3 5	2.43 2.60 1.42 2.45 .96	.04 .01 .01	.27 .10 .09	2 2 <2 <2 <2
L50N 25+50E L50N 25+75E L50N 26E L49+50N 24E L49+50N 24+25E	1 2 2 ~1	114 29 16 71 210	5 13 7 11 4	116	.3 .4 <.3 .4 <.3	366 64 36 322 97	40 15 55 52	579 109 996	4.76 3.16 1.56 4.42 9.86	13 13 4 25 6	9 <8 8 <8 <8	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <	<2 <2 <2 <2 <2 <2 <2 <2 <2 <3			<उ <उ <उ <उ	6 <3 <3 <3 4	67 43 79	.23 .09	.046 .047	13 8 13	123 68 224	2.64 .73 .42 3.03 4.97	179 57 157	.09	7 <3 <3	4.06 1.91 .72 2.73 5.41	.01 .01 .02	.08	3 <2 <2 2 3
L49+50N 24+50E L49+50N 24+75E L49+50N 25E BL L49+50N 25+25E L49+50N 25+50E	3 2 2 1	20 19	18 10 9 7 8	68	.8 .4	34 32 530	58	193 188 1080		34 11 23 10 40	<8 <8	<2	<2 <2 <2 <2 <2 <2	10 18	.6 .4 1.2		<3 <3 <3	57 74	.19 .12 .55	.097	11 7 6	83 74 650	1.96 .63 .51 3.31 4.69	143 91 151	.13 .13 .25	<3 <3 3	2.84 1.29 1.34 3.83 4.61	.02 .02 .05	.08 .06 .07	2 <2 <2 <2 2
STANDARD C3 Standard G-1	26 <1	67 2	36 5		5.8 <.3	40 7			3.46 2.14	53 <2		2 <2	19 5		23.4 <.2					.085 .091	19 9		.62 .62				1.92			
<u> </u>		THIS	.500 LEACH	ISI	PARTI/	AL FOR	L MN F	ESRO	VITH 3M CA P LA inning	CRM	1G BA	TI B	W AND) LIM	ITED F	OR N	A K AI	ND AL	\mathcal{O}^{-}	DIS	סונטזו	ED TO	10 M	L WITI	H WAT	ER.				
DATE RECE	IVBI): †	NOV 5	1997	DA	IB I	REPO	rt Mi	AILEE	A	lov	12/	97	5	EIGN	ZD E	(_	k	ý 	7.0	TOYE,	C.L	EONG,	J.WAN	IC; Cl	ERTIF	ED B.	C. AS	SAYER:	5
All_results an	ге сог	sider	ed th	ie cor	nt i der	ntial	ргоре	rty ol	the c	lien	с. Асп	ne ass	umes	the (112011	1t1e	s_tor	actu	al co	st of	the a	analy	<u>515</u> 0	nıy.				υατα_	/ ra	

ADE ANALYTICAL						Ric	iley	7, (c.J.	PI	ROJE	ICT	PAC	(397	FJ	LE	# 9	97-6	5551	-						Pag	e 2	(AC	AAA E ANALYTICAL
SAMPLE#	Мо ррп	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	sb ppm	8i ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	8а ррп	Ti %	B	Al %	Na %	K %	W ppm
149+50N 25+75E 149+50N 26E	2	48 25	17 8	98 104	<.3 <.3	99 56	17 13	284 327		15 12	<8 8	<2 <2	4 3	21 17	.6 .6	<3 5	<3 <3	61 57	.38 .32	.119 .093	21 19	139 105	1.12	120 141	.10 .10	<3 1 <3 1	.96 .30	.01 .02	.10 .11	<2 <2
L49N 24E L49N 24+25E	3	28 68	9 7	137 115	.5 <.3	72 80	15 31		5.16	21 5	<8 <8	<2 <2	2 <2	27 45	1.2	<3 <3	3	115 121	.36 .74	.256	15 4	169	1.19 2.44	313	.13 .23	<3 2 <3 2	.85	.01 .03	.09 .36	<2 <2
L49N 24+50E L49N 24+75E	3	173 12	14 0	107 61	2.3	121 38		1048 149		20 8	<8 <8	<2 <2	<2 <2	47 18	1.6	<3 <3	4 <3	67 67	.97 .22		15 15	95 86		250 117	.08	<3 2	2.41	.03 .01	.18 .08	<2 <2
L49N 25E 8L L49N 25+25E	3	22 28	12 13	104 73	.7	57 57 47	12 11		3.56	12 16	<8	<2 <2 <2	3 <2	22 20	1.1	<3 <3	3	82 58	.27	. 139	17	129	.97	105	.13	<3 1	.54	.02	.11	<2
RE L49N 25+25E L49N 25+25E	3	33 32	10	78 80	.6 .5 ≺.3	47 47 68	13		3.11	11	<8 <8 <8	~2 ~2 ~2	<2 <2 <2	22 24	1.0	<3 <3	4	60	.27	.049	19 20	78 82	.58	142 135	.08 .08	<3 (.01 .02	.09	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
			,				-			7	-	_	-		.5	_	<3	59	.42	•	6	100	.62	154	.16	_	.14	-02	.08	<2
L49N 25+75E L49N 26E	3	25 31	8	72 112	<.3 <.3	90 70	15 15	293 371	3.99	- 3 18	<8 <8	<2 <2	<2 2	25 24	.6 1.1	<3 <3	<3 <3	68 76	.42	.118	3 17	114 122		96 168	.24	<3 1		.02 .01	.05	<2 <2
STANDARD C3 Standard G-1	27 <1	66 4	36 <3	172 47	5.4 _<.3	36 5	12 3	759 571		57 <2	22 <8	<2 <2	18 5	30 79	23.1 <.2	16 <3	28 <3	83 46	.60 .68	.086 .091	19 10	177 87	.61 .63	158 260	.11 .16	21 1 <3 1		.04 .09	.16 .51	19 5

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Sample type: SOIL._ Samples beginning (RE' are Reruns and (RRE' are Reject Reruns.

ACHE ANALY	TICA	L L	ABOR	ATOF	RIES	LTD	•	852	2 E.	HAST	INGS	ST.	VAN	COU	/ER	BC	V6A	1R6		PH	ONE	(604)) 253	-31	58	FAX	6^4) 253	-17:	16
£ £`		: : 				Ri	dle	ey, C General		PRO	JECI	97	PAG		ile	#	FIC 97-	305	4 · · [·]		ge	1				•		•	4	
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe A % pp		Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bí ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %		Au** ppb
97PAG CR1	1	107	3	30	<.3	107	30	349 3.	05	7 <5	<2	<2	111	.2	<2	<2	78	2.35	.085	4	136	1.76	214	.16	<3	2.05	.30	.50	<2	<2
97PAG CR2	<1	15	6	15	<.3	19	17			2 <5	<2	<2	94	<.2	3	<2		1.26		13	26	.32	106	.39	<3	.55	.10	.17	3	<2
97PAG CR3	2	12	<3	7	<.3	12	3	134 .	81 <	2 <5	<2	<2	5	<.2	<2	<2	6	.06	.024	2	23	.07	16	.01	<3	.12	.01	.01	5	15
97PAG CR4	1	274	18	23	<.3	83	35	339 5.	40	4 <5	<2	<2	3041	<.2	5	<2	146	.56	.162	3	149	2.14	131	.24	<3	2.04	.13	-91	<2	8
97PAG CR5	<1	66	7	22	<.3	660	64	311 5.		7 <5	<2	<2	52	<.2	<2	<2	87	.37	.054	2	795	6.09	71	.02	<3	2.01	.01	.02	<2	88
97PAG CR6	<1	22	<3	31	<.3	943	103	1083 7.	41 2	9 <5	<2	<2	10	<.2	<2	<2	57	. 13	.035	1	719	6.94	36	.02	4	1.15	<.01	.01	<2	<2
97PAG CR7	13	130	11	67	<.3	90	34	485 5.	82 <	2 <5	<2	<2	88	.3	<2	<2	138	1.35	.125	3	98	1.54	92	.22	<3	1.26	.12	.99	2	<2
97PAG CR8	12	148	55	93	.4	316	65	196 3.	42 11	4 <5	<2	<2	13	<,2	3	<2	97	.11	.034	2	330	1.88	95	.05	<3	1.61	.02	.20	8	18
RE 97PAG CR8	12	147	52	92	.5	313	65	195 3.	40 11	1 <5	<2	<2	13	.3	2	<2	95	.11	.032	2	326	1.86	94	.05		1.60	.02	. 19	7	28
97PAG CR9	1	23	5	33	<.3	29	18			2 <5	<2	<2	139	<.2	<2	<2		1.00		1		2.07	269	.21	-	2.16		1.49	3	4
97PAG CR10	2	11	20	7	.4	7	5	676.	83 137	1 <5	<2	3	20	<.2	10	<2	7	.08	.100	9	11	.03	32	<.01	4	.33	.07	. 13	6	167
97PAG CR11	2	123	16	50	<.3	170	45	471 5.	72 1	0 <5	<2	<2	36	<.2	<2	<2	97	.81	.127	2	221	1.89	122	.30	<3	1.76	.09	1.51	<2	3
STANDARD C3/AU-R	25	63	35	164	5.4	34	12	707 3.	41 5	4 20	7	18	30	23.8	17	23	82	E4	.087	17	167	.62	148	.10	10	1.90	.04	.16	21	496

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB - SAMPLE TYPE: P1 ROCK P2 SILT AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 23 1997 DATE REPORT MAILED:

vata

ME ANY TICAL	I.AB	ORA	TOP	RIES	5 1.1			e <u>y</u> ,	ЭЕО <u>С.</u>	HAS: CHEN J. <u>F</u> very,	IIC. PRO	al JEC	AN T	97P	AG	CE Fi	RT: le	IFJ #	5A 1 [CA] 97- by: 0	re - 449	51		NE (604) 25	3-3	158	F.	<u>AX (</u>	504	253	-171
SAMPLE#	Mo ppm				-	Ni ppm		Min ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V maqa	Ca X	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	к %		Au* ppb	<u> </u>
97PAG CR12	1	161	3	53	<.3	19	23	599	4.87	38	<8	<2	<2	57	<.2	<3	<3	178	1.21	172	6	35	1.61	204	. 25	<3	1.91	.12	1.41	<2	3	
97PAG CR13	1	14	<3	23	<.3	3	5	326	2.51	24	<8	<2	2	15	.2	3	<3		.33			9		112			1.32					
97PAG CR14	69	178	25	1055	8.6	42	18	760		36	<8	<2	2	1112	143.9	_			9.23					128			2.10		.18	-		
97PAG CR15	66	121	11	3049	8.9	50	19	1538	6.58	81	<8	<2	<2		335.2				7.28								.89		.09	<2	13	
97PAG CR16	3	35	17	50	<.3	6	4	207	2.76	75	<8	<2	3	26	1.6	20	<3		.51			7		108<			1.31		. 15	2	22	
97PAG CR17	2	16	21	25	1.2	8	10	187	3.18	1753	<8	<2	2	22	1.5	18	<3	8	. 15	.098	17	11	.03	83<	.01	6	.42	.06	. 13	<2	56	
97PAG CR18	<1	10	27	5	<.3	11	38	361	7.13	20012	<8	<2	2	34	<.2	79	<3	8		.130		5	.25					.07		<2	120	
97PAG CR19	2	27	77	19	.3	10	8	259	4.30	1332	<8	<2	2	34	.7	35	3	10	.18	.106	18	8	.07	101<		5	.48	.08	.15	Ž	87	
97PAG CR20	<1	63	4	15	.3	44	22	310	3.16	37	<8	<2	4	147	<.2	<3	9	15	1.77	.089	24	30	.17	12	.17	<3	1.10	.12	.05	4	2	
RE 97PAG CR20	1	64	6	16	.3	46	23	323	3.32	37	<8	<2	4	155	<.2		11	15	1.83	.091	25	27	.18	12	. 18	<3	1.16	.13	.05	4	3	
97PAG CR21	1	34	5		<.3		9	92		9	<8	<2	14	57	<.2	<3	<3	19	.45	.020	24	39	.11	22	.22	<3	.44	.09	.03	2	<1	
97PAG CR22	<1	12	- 4		′ <.3		8	166		6	<8	<2	13	25	<.2	<3	3	17	.43	.038	55	38	- 16	- 14	.13	- 4	.35	.08	.04	4	<1	
STANDARD C3/AU-R	25	63	34	152	5.1	35	12	731	3.46	53	19	4	16	30	22.6	16	21	81	.59	.085	21	169	.64	154	.10	17	1.96	.04	. 17	21	448	

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB - SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

AA							Ric	<u>11e</u>		្លុះ C.រ.	IEMI PR	20JE	<u>ECT</u>	PAC	<u>397</u>	F	le	# 9	CATE 97-6	1281											ľ
MPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Min ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppn	Bi ppm	V ppm	Ca %	P X	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	К %	W ppm	Au pp
197 DR1 197 DR2 197 DR3 197 DR4 597 CR23	1 1 <1 40 1	9 14 50 210 19	16 4 10 60 20	98 10 29 164 32	.3 <.3 <.3 15.4 <.3	23 72 22 26 5	10 11 20	702 391 304 435 241	.98 1.35	42 77 17 35 1085	<8 <8 <8 <8 <8	<2 <2 <2 3 <2	2 <2 <2 2 4	13 774 359 40 29	1.4 .2 .2 1.7 .5	18 3 5 4 8	ব ব ব ব ব ব ব ব	68 35 36 305 42	17.62 10.28 .65	.134 .030 .029 .134 .136	10 6 5 7 18	144 50	1.55 .55 .85 1.67 .59	53 61 105 185 91	.01 .05 .05 .21 .02	27 298 <3	1.78 .73 .65 1.82 .90	.04 .06 .09 .08 .06	.09 .34 .20 .82 .17	2 3 ~2 ~2 ~2	< < 195 4
G97 CR24 PAG97 CR24 ANDARD C3/AU-R ANDARD G-1	2 2 23 2	34 35 63 3	77 81 35 3	23 161	1.5 1.6 5.3 <.3	5 5 37 10		102 108 737 578		391 401 53 2	<8 <8 19 <8	<2 <2 <2 <2	4 4 14 3	31 32 30 76	.3 .3 21.6 2.>	34 37 12 <3	<3 3 20 <3	15 15 84 44	.36 .59	.122 .127 .088 .078	16 18 20 8	5 6 172 99	.20 .21 .61 .67	75 151	<.01 <.01 .11 .16	8 19	.53 .54 1.94 1.13	.07 .07 .04 .08	.15 .15 .16 .52	<2 <2 15 <2	3 2 51
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ALL RESULTS are CONSIDERED THE CONTIDENTIAL PROPERTY OF THE CLIENT. ACME ASSUMES THE LIABILITIES FOR ACTUAL COST OF THE ANALYSIS ONLY.

Data<u>d</u>/FA

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						Ri	dle	ey,	C.J	• P	ROJ	ECT	97	PAG	F	ILE	; #	97-	305	4						Pac	je :	(2	A	AA ME ANALYTICAL
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm		Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm		8a ppm	Ti %	8 ppm	Al %	Na %	K %	W ppm
97PAG CS1 97PAG CS2	2	71 30	<3	135 79	.3	37	17	,		11 17	<5	<2	<2	47	1.3	<2	<2	120	.83	.090	7	62		64	.19	<3 2		.03	.19	<2
97PAG CSZ 97PAG CS3	4	42	12	127	.4 <.3	46 124		1699 4710		54	<5 <5	<2 <2	<2 <2	39 48	.5	<2 <2	<2	62 88	.81 .77	.099	10 11	70 152		185 330	.07 .10	51 <32		.02 .02	.10 .19	<2 <2
97PAG CS4 RE 97PAG CS4	3 3	83 91	9 12	166 172	.5 .6	47 43		820 838		3 <2	<5 <5	<2 <2	<2 <2	47 50	2.0 2.1	<2 <2	2 <2	136 140	.81 .86	.086 .086	9 9		1.88 1.93	79 86	.23 .24	<32 52		.02 .03	.20 .21	<2 <2
STANDARD C3	26	66	36	166	5.5	37	11	719	3.45	55	26	<2	18	31	22.8	17	20	83	.59	.096	18	172	.65	161	.11	18 1	.97	.05	.17	17

Sample type; SILT. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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	I CAL	LA	BORA	TOR	IES	LTD.	·	85		HAS			•		OUVE			76A			PHO)NE (604)	253-	315	8 1	PAX (6	253	-171
										CHE																				
						F		Ley, lenera	l Del	J. ivery,	PRC Eag	le Cre	r <u>9</u> ek BC	7 <u>PA</u> V0K				⊧ 97 d by:			ey									
SAMPLE#	Mo ppm		Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm		Ва ррт	Ti %	B ppm	Al %	Na %	K %	W Maq
97PAG CS5 97PAG CS6 97PAG CS8 97PAG CS9 97PAG CS10	1 1 <1 1 <1	46 47 15 24 7	4 6 5 9 3	109 45 51	1.7 .3 <.3 <.3 <.3	117	22 22 17	1154 989 553 399 322	3.73 2.47 2.64	17 25 2 <2 <2	<8 <8 <8 <8 <8	<2 <2 <2 <2 <2 <2	2 <2 2 4 4	21	.4 .7 <.2 <.2 <.2	3 3 3 3 3 3 3 3	ও ও ও ও ও ও	123 101 31 32 15	.97 .87 .35 .30 .21	.126	10 9 13 19 12	113 93 78	1.51 1.63 2.39 .79 2.55	161 65	.14 .12 .07 .09 .05	<3 <3 <3		.02 .02 .02	.16	<2 <2 <2 6 <2
97PAG CS11 RE 97PAG CS11	<1 <1	10 12	4 5	26 26	<.3 <.3	65 67		193 194		<2 2	<8 <8	<2 <2	3 3	14 15	<.2 .2	<3 <3	<3 <3	20 20	.24 .25	.048 .047	17 16	37 37	. 63 . 65	61 62	.07 .07			.01 .01		5 6
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