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DRILLING ASSESSMENT REPORT ON THE THE SPOKANE PROJECT

SEPTEMBER 88- MARCH 89

Lillooet Mining Division B.C.

NTS 92J/16

Longitude 122 deg 23'W, Latitude 50 deg 52'N

SUB-RECORDER
RECEIVED
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VANCOUVER, B.C.

For

MacNeill Industrial Inc.

by

Greg L. Ven Huizen, P.Eng.

20 March 1989

(REVISED 22 AUGUST 1989)

Revised 12 December 1989

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,041

TABLE OF CONTENTS

SUMMARY..... 1- 2

PROPERTY DESCRIPTION, LOCATION AND ACCESS..... 2

GENERAL LOCATION MAP (FIG 1)..... 3

HISTORY AND PREVIOUS WORK..... 4& 7

TABLE 1- MINERAL CLAIMS..... 5

PROPERTY OUTLINE MAP (FIG 2)..... 6

GENERAL GEOLOGY AND MINERALIZATION..... 7- 8

DISCUSSION OF DRILLING RESULTS..... 8-18

LEGEND FOR DRILL HOLE SECTIONS..... 10

SECTION OF 86-4, 86-5, 88-5, 88-6 AND 88-10 (FIG 3).. 11

SECTION OF 88-8 (FIG 4)..... 13

SECTION OF 89-3, 89-4, 89-5 AND 88-11 (FIG 5)..... 14

SECTION OF 89-6 AND 89-7 (FIG 6)..... 15

CONCLUSIONS AND RECOMMENDATIONS..... 16-19

COST STATEMENT..... 20 -20A

CERTIFICATE..... 21

DRILL LOGS.....APPENDIX I

ASSAYS.....APPENDIX II

PLAN OF AREA DRILLED (FIGURE 8).....IN POCKET

SUMMARY

The author was engaged by MacNeill Industrial Inc. to provide geological supervision for drilling on their Spokane gold property about 40 km northwest of Lillooet, B.C. The drilling project was recommended in the report titled "The Spokane Gold Property", by C.J. Westerman, Ph.D., F.G.A.C.

Eight holes were drilled up to 6 November 1988 totalling 2630 feet (802 meters). An additional nine holes were drilled between 9 November 1988 and 27 February 1989 as recommended by the author in the report titled "Interim Drill Report on the Spokane Project", 6 November 1988, totalling 1670 feet (507 meters).

These seventeen holes reveal quartz veins ranging up to 20 meters in thickness with grades ranging up to .40 opt Au over 6.3 meters (88-10) and .13 opt Au over 4.5 meters (88-6) in the western part and .31 opt Au over 4.1 meters (89-3) and .12 opt over ~4 meters (89-4) in the eastern part (true width). Due to the "nugget effect" low gold values found throughout the vein system should not be ignored and it should be noted that wherever intersected the quartz vein shows anomalous gold and copper content over substantial dimensions. The white massive milky nature of the quartz vein, principal sulfides of chalcopyrite and pyrrhotite and similar enclosing rock types found in the areas drilled, which are separated by 250 meters lead the author to believe that the vein is continuous between the areas. The strike of the vein is generally east to west and the dip of the western part drilled is north while that drilled in the east is south.

Work to date has revealed signs of the quartz vein over 800 meters length and a vertical interval in excess of 200 meters. Strike lengths and widths of the vein system shown to date show that the deposit has potential for large tonnages in widths amenable to cost effective underground mining. Some of the deposit near to the surface may be amenable to open pit mining.

It is the author's opinion that the Spokane property has a good potential of becoming a viable mining property. It is the author's recommendation that further drilling be undertaken to provide information leading to a production decision.

PROPERTY DESCRIPTION, LOCATION AND ACCESS

The property consists of mineral claims as found in Table 1 of this report. The legalities and details of the option agreements with MacNeill Industrial Ltd. is beyond the scope of this report.

Access to the property from Lillooet is via the Bridge River Road and the Yalakom River road and then by 16 km of 4 wheel drive road with the last 3 km being extremely rough and hazardous due to rock slides and steep grades.

Water for drilling is found on the properties in a series of small creeks, springs and ponds which drain to the east. A small lake is also found about 3 km from the drilling sites. The small lake is located next to the access road to the property and with improvements to the last portion of the road may provide a practical source of water for future projects.

MACNEILL INDUSTRIAL LTD.		
SPOKANE PROJECT		
LOCATION MAP		
G.L.VENHUIZEN, B.SC., P.ENG.		
DRAWN: G.L.V./dw	SCALE: AS SHOWN	FIG.
DATE: MAR., 1989	N.T.S. 92J/16W	1



BRITISH COLUMBIA

U.S. A.

HISTORY AND PREVIOUS WORK

The history of the property probably dates back to the early 1900's when quartz veins were discovered. A number of surface trenches, shallow shafts and two or three adits are located on the quartz veins but no records of ore shipments exist.

Asarco Exploration Company of Canada Ltd. undertook geological, geochemical, magnetometer and VLF-EM surveys on the property in 1983-1984. Enexco International undertook surface sampling in September 1985 and drilled eight short core holes totalling 11.3 meters. In 1986 Enexco and Julia Resources Corp. conducted road construction, bulldozer trenching, geological and geochemical surveys and drilled a total of 305 meters in seven holes.

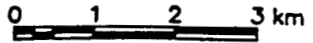
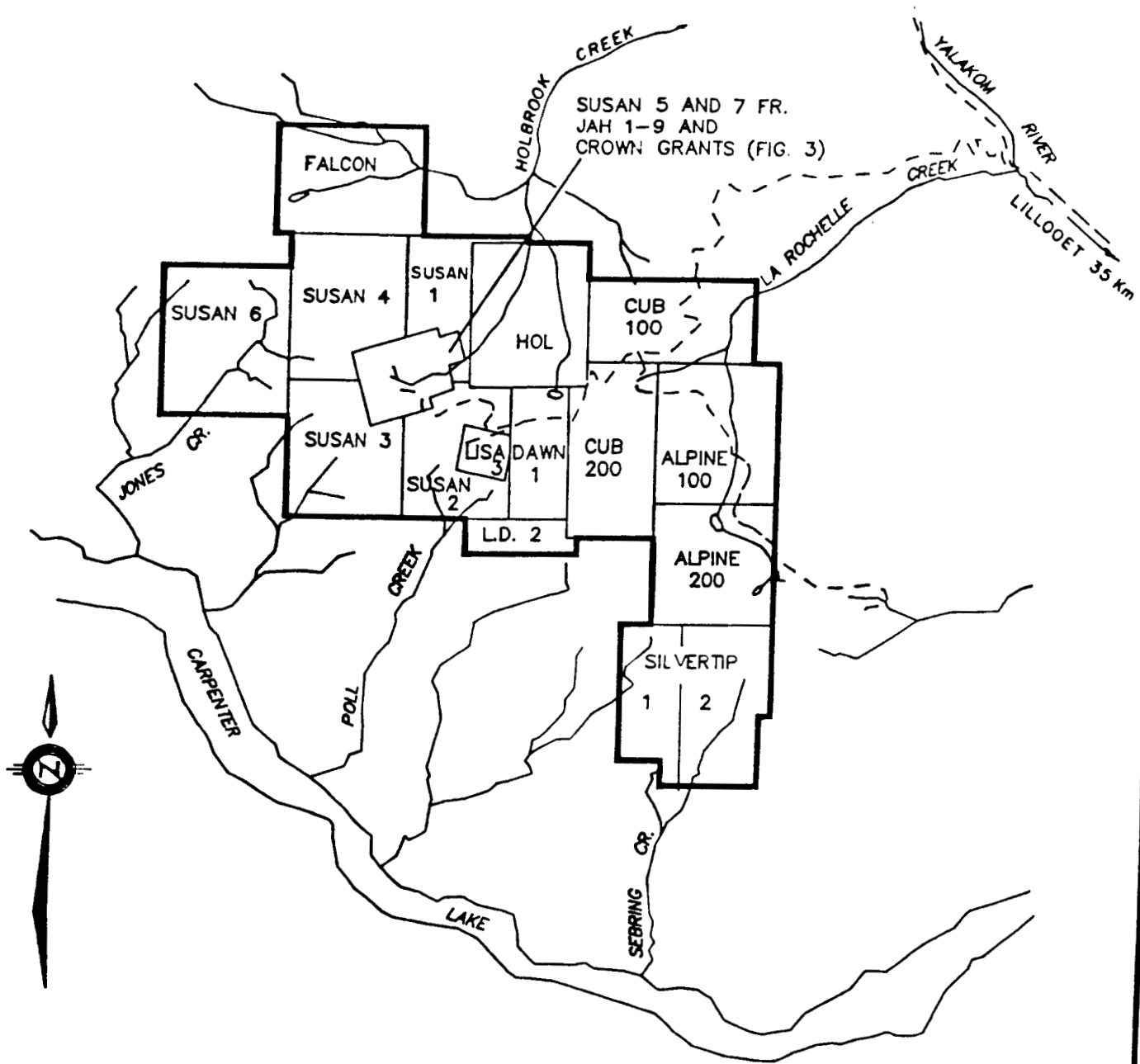
In 1983 Utah Mines Ltd. undertook geological mapping, rock sampling and localized grid soil geochemical surveys on the Hol, Alpine 100 and Alpine 200 claims which at that time were named the Hol and Roch claims.

In July, 1987, MacNeill Industrial Inc. undertook 426 km of airborne magnetic and VLF-EM geophysical surveys on and around the property. In October, 1987 the company completed 12 bulldozer trenches totalling 395 meters, and assayed 18 rock samples for gold and six trace elements at Min En Labs in North Vancouver, B.C. Additionally 52 soil samples were collected and analyzed for gold and ten trace elements.

In the report titled "The Spokane Gold Property", by C.J. Westerman, Ph.D., F.G.A.C., dated 10 May 1988 a Phase I

TABLE 1- LIST OF CLAIMS ASSESSMENT WORK IS BEING APPLIED ON:

<u>RECORD HOLDER</u>	<u>NAME</u>	<u>#</u>	<u>UNITS</u>	<u>RECORD DATE</u>	
John Posnikoff	Susan 2	2235	20	15 Dec.	
"	Susan 3	2236	20	"	
"	Susan 4	2237	20	"	
"	Susan 5 fr.	2609	1	23 Sep.	
"	Susan 6	2608	20	23 Sep.	
"	JAH 1	36778	1	27 Aug.	
"	JAH 2	36779	1	"	
"	JAH 3	36780	1	"	
"	JAH 4	36781	1	"	
"	JAH 5	36782	1	"	
"	JAH 6	36783	1	"	
"	JAH 7	36784	1	"	
"	JAH 8	36785	1	"	
"	JAH 9 fr.	36786	1	"	
"	Columbia	L1122	1	1 July	Crown grant
"	Shamrock	L1123	1	"	"
"	Golden Stripe	L1124	1	"	"
"	Mascot	L1125	1	"	"
Lloyd Brewer	Susan 7fr	3591	1	20 Oct.	



MacNEILL INDUSTRIAL INC.	
SPOKANE PROPERTY	
LILLOOET MINING DIVISION, B.C. NTS: 92 J/16	
CLAIM MAP	
G. L. Ven HUIZEN, P. Eng.	
Nov. 1988	FIGURE: 2

drilling and ground survey program was recommended for \$166,000 with a Phase II drilling program for \$220,000 to follow (contingent on results).

The author was engaged on behalf of MacNeill Industrial Inc. during Sep 1988 to Oct 1988 to provide geological supervision of the drilling program recommended. Further drilling was recommended by the author and drilling continued from November to February 1989.

GENERAL GEOLOGY AND MINERALIZATION

(From "The Spokane Property" by C.J. Westerman, 10 May 1988)

The property is located on the eastern margin of the Coast Mountain Plutonic Complex. Cretaceous granitic rocks intrude Triassic metasediments of the Bridge River Group and ultramafic rocks of the Shulaps Complex. The northwest trending Yalakom fault system passes within ten km of the property.

Bridge River Group rocks within the property are predominately argillaceous siltstones, argillites and cherts with local lenses of andesitic volcanic tuffs and rare argillaceous limestone horizons. These rocks have been partly intruded by- and are partly in fault contact with- serpentized gabbros, peridotites and dunites of the Shulaps Ultramafic Complex. Medium grained granodiorite and quartz diorite of the Coast Plutonic Complex intrudes both the Bridge River Group and Shulaps Complex. In the vicinity of the main gold zone on the property the intrusive rocks form major E-W trending dikes, several hundred meters in width, which are partly in fault

contact with older rocks. Hornblende - feldspar porphyry (Rexmount Porphyry) of Tertiary age occurs as irregular east-west trending dikes intruding all other rock types.

Gold bearing quartz veins have been emplaced along fault structures which post date intrusion of granodiorite and quartz-diorite, both of which are severely altered adjacent to the veins. Rexmount Porphyry dikes, which also host gold quartz veins, have undergone very little alteration but have locally been affected by late stage movement along pre-existing faults. Northeast trending cross faults offset pre-existing east trending quartz-gold veins but are also locally mineralized.

DISCUSSION OF DRILLING RESULTS

Drill logs, hole locations, profiles and assay sheets are found in the appendices of this report.

A summary of the results is as follows:

<u>HOLE</u>	<u>T.D.(M)</u>	<u>BEST RESULTS</u>	<u>COMMENTS</u>
88- 1	28		Caved-redrilled as 88-2
88- 2	98.15	84.51-88.77 .07 opt Au	(t.w. ~3.0 to 3.8m)
88- 3	108.81	96.93-99.44 .08 opt Au	(t.w. ~1.8 to 2.3m)
88- 4	22.86		abandoned- bad ground
88- 5	85.95	67.71-75.29 .09 opt Au	(t.w. ~6.8m)
88- 6	145.69	81.38-86.33 .13 opt Au	(t.w. ~4.5m)
88- 7	149.35	n/a	
88- 8	81.11	13.11-15.24 .39 opt Au	88-8 is down dip 89-1
		17.68-26.11 .35 opt Au	to 7 indicate a t.w. of
			3-4 meters

88-10	106.68	78.18-85.14	.40 opt Au	(t.w. ~6.3 meters)
88-11	96.30	38.66-38.86	.19 opt Au	failed to intersect primary target
88-12	45.57	n/a		failed to intersect primary target
89- 1	33.42	9.72-13.47	.02 opt Au	qtz vein intersected after overburden
89-2	31.90	7.29-10.94	.008opt Au	"
89-3	60.76	13.34-18.23	.31 opt Au	t.w. ~ 4 meters
89-4	16.40	11.95-16.10	.12 opt Au	t.w ~ 4 meters
89-5	43.14	10.84-11.95	.03 opt Au	vein is split with
		14.28-14.68	.27 opt Au	actinolite schist and dacite
89-6	103.90	69.82-74.73	.05 opt Au	t.w. ~2 meters
		93.87-96.15	.20 opt Au	t.w. ~1.6 meters
89-7	75.95	42.18-47.39	.05 opt Au	t.w. ~2 meters
		67.87-69.27	.11 opt Au	t.w. ~1 meter

In addition to gold values Cu values of about .5 to 1.0 % are encountered at the adit area and from trace to over 4% in the area around hole 88-8 adding significantly to the gross metal value of the quartz veins.

The widths and grades encountered demonstrates that the property has a potential for hosting a large Au-Cu ore body. Intersections around the adit area (88-5, 88-6 and 88-10) show a deposit with gold values of .09 to .40 opt Au over 6+ meters. Drilling by Enexco in 1986 showed similar results but a profile of all holes show that there may be a parallel zone or faulting has displaced the quartz veins.

LEGEND FOR DRILL HOLE SECTIONS

TERTIARY or YOUNGER



Quartz veins, white massive milky quartz containing nil to 30% chalcopyrite & pyrrhotite usually intermixed in anhedral inclusions up to 1cm. in diameter & minor to 40% chlorite, talc & sericite with minor subsidiary gold bearing minerals



Breccia, light grey, kaolin & sericite with angular fragments of dark green ultrabasic & white quartz may include minor sulfide content found primarily associated with quartz veins.



Talc - sericite - chlorite schist, light greenish grey, usually found adjacent to quartz veins & next to contacts

REXMONT PORPHYRY (TERTIARY)



Dacite, light greyish green to grey fine grained with some hornblende, grades to andesitic composition.



Dacite porphyry, light grey to grey with white plagioclase phenocrysts.

COAST PLUTONIC INTRUSIONS



Granodiorite, light reddish brown, fine to medium grained, may grade to rhyodacite with sometimes porphyritic composition; contains varying amounts of talc, sericite, & chlorite.

BRIDGE RIVER GROUP (TRIASSIC TO JURASSIC & OLDER)



Metagreywacke, light grey/black banded.

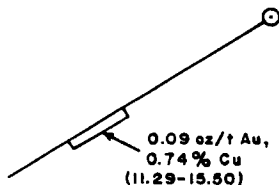


Argillite, dark black/white banded with siliceous inclusions, contains minor pyrrhotite.

SHULAPS ULTRAMAFIC COMPLEX (AGE UNKNOWN)

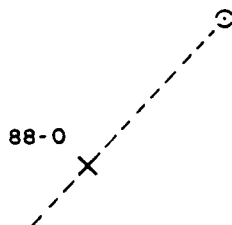


Serpentine, dark green & black, varies from dark green & black altered peridotite, to light banded serpentine.



Drill hole on section

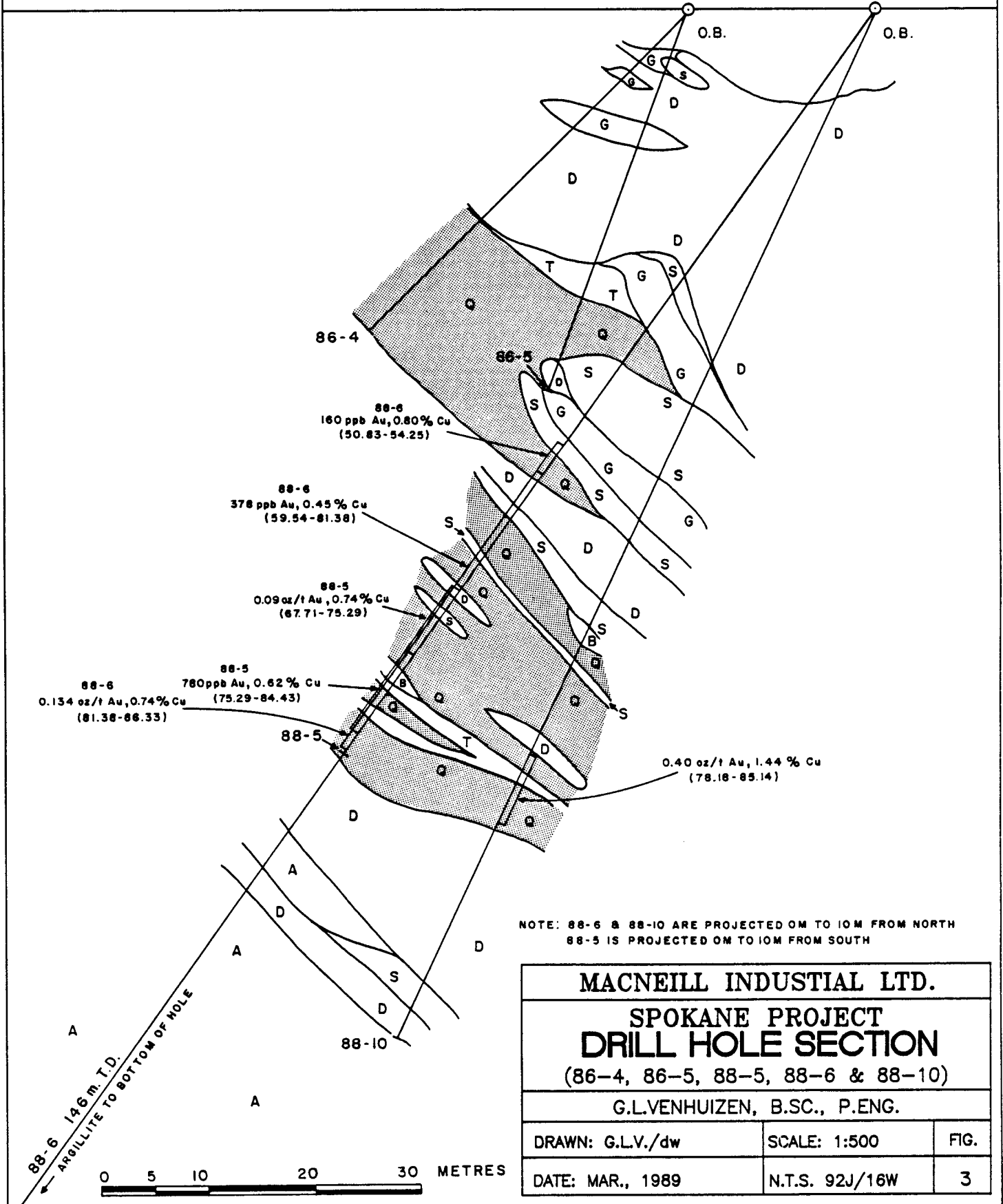
Sample location, assay information & (interval: start - finish in metres)



Trace of drill hole in front or behind section.

Pierce point of drill hole on plane of section

Section at 235° Az.



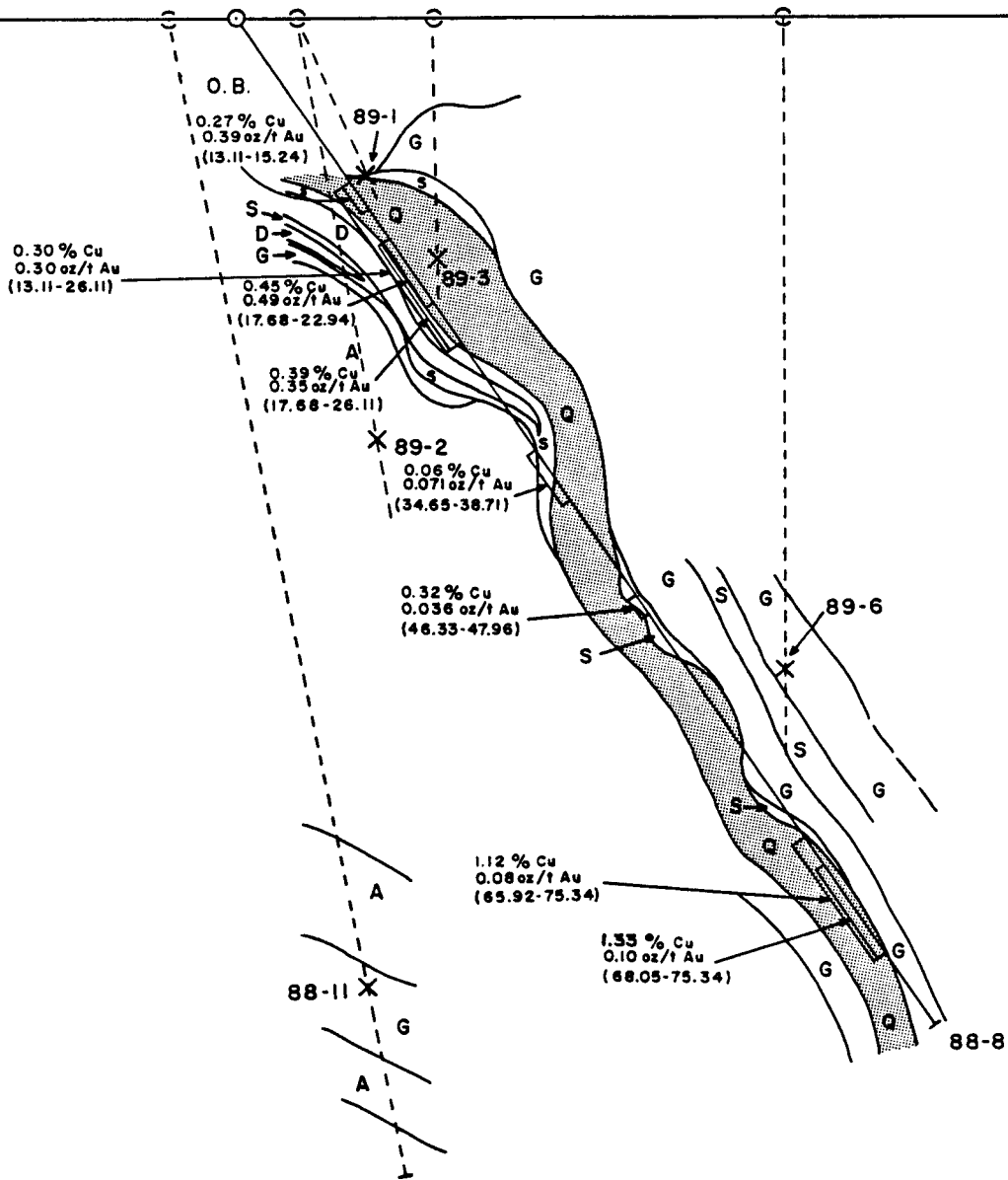
Holes 88-2 and 88-3 show narrower quartz veins grading .07 to .08 opt Au. The attitude of the veins is not known so it is difficult to estimate true widths in this area. Grades elsewhere suggest that the mineralization may be of higher grade in other intersections. It is not certain that these intersections represent a continuation of mineralization found in 88-5, 88-6 and 88-10 or another parallel structure.

Hole 88-7 was intended to intersect the E-W trending main vein and mineralization found in trenches to the south but encountered only narrow quartz veins near the bottom of the hole with no significant gold content. Subsequent holes (88-8, 89-1 to 89-7) show that the vein dips to the south in this area with previous holes drilled near the adit showing a dip to the north.

Hole 88-8 had very encouraging results but the long intersections encountered demonstrated that the hole was drilled either on strike or down dip. Holes 88-11 was drilled assuming that 88-8 was drilled partially on strike but failed to intersect the target. Hole 88-12 was intended to intersect the upper section of 88-8 but due to a lapse in time between locating and showing the drill pickets and a change in drilling personnel the forsite picket was used as a hindsite picket and the hole was drilled in the wrong direction.

Holes 89-1 and 89-2 intersected the vein at a shallow depth with quartz being intersected immediately under the regolith and the vein intersection proved to have values in 89-1 of \leq .03 opt Au and in 89-2 of \leq .01 opt Au over dimensions of ~3 meters. Holes 89-3, 89-4 and 89-5 intersected the same vein slightly

Section at 195° Az.



MACNEILL INDUSTRIAL LTD.
SPOKANE PROJECT
DRILL HOLE SECTION
(88-8)

G.L.VENHUIZEN, B.SC., P.ENG.

DRAWN: G.L.V./dw

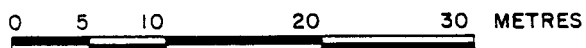
SCALE: 1:500

FIG.

DATE: MAR., 1989

N.T.S. 92J/16W

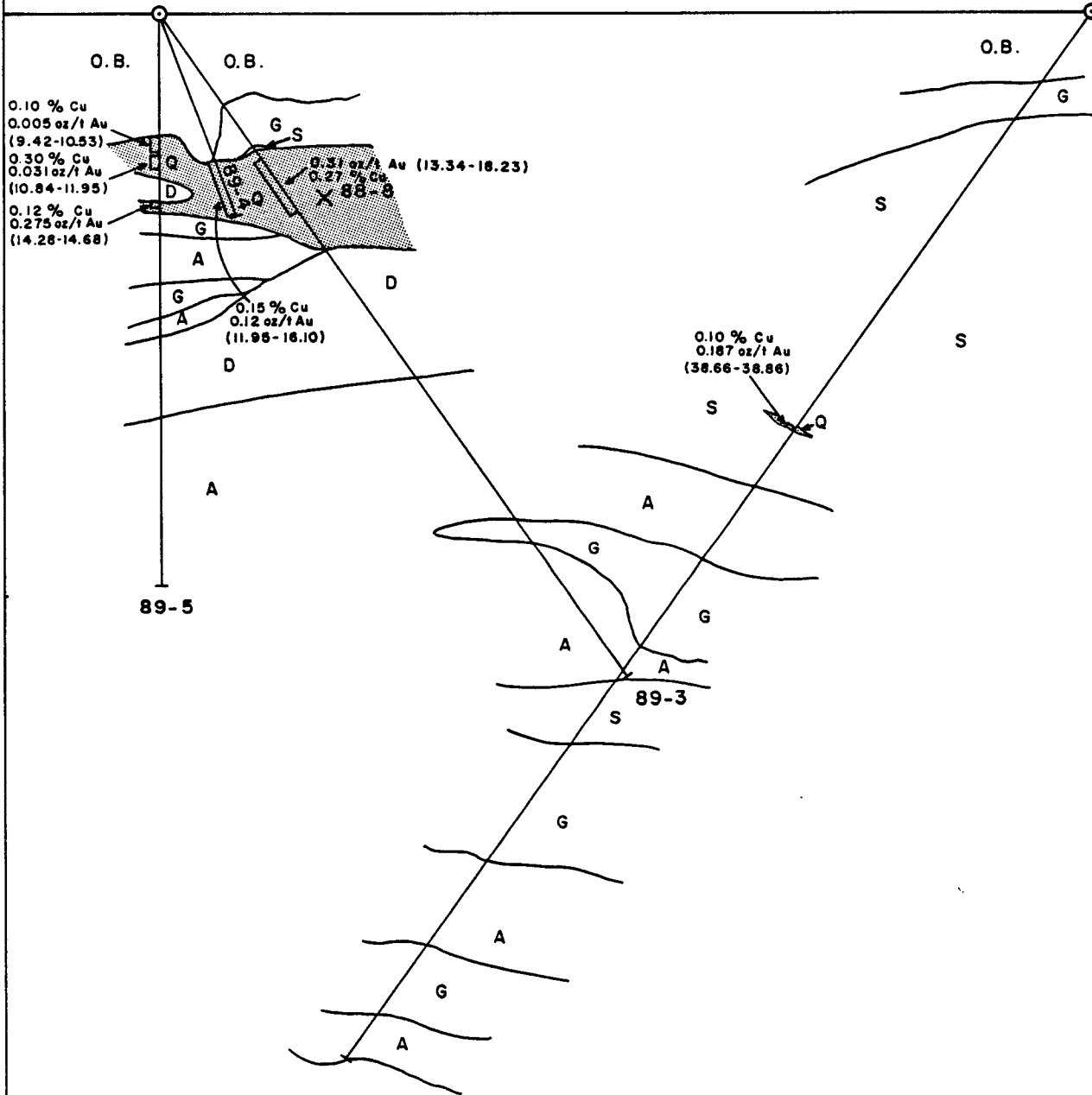
4



W

E

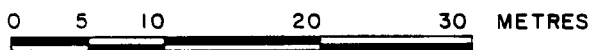
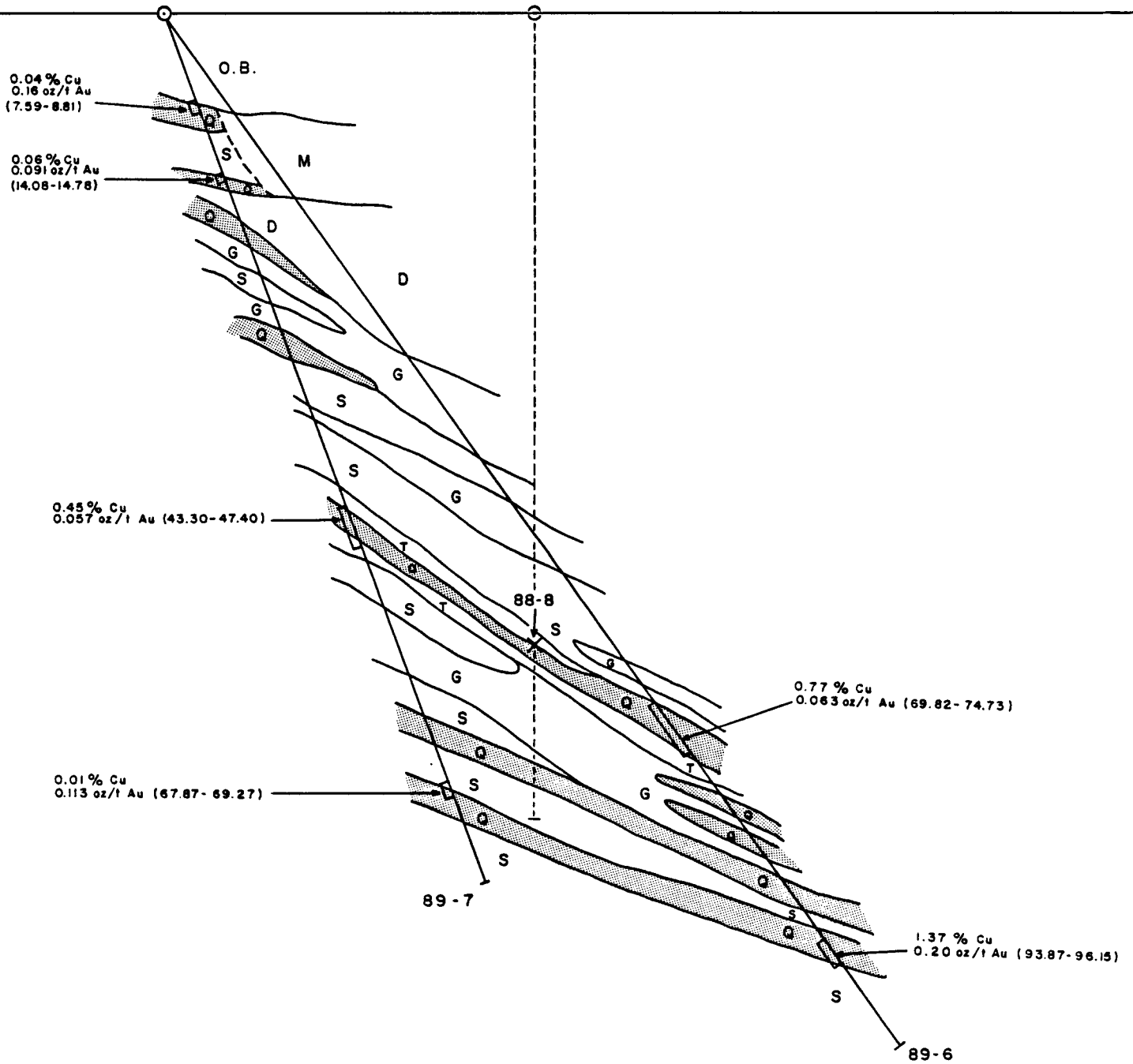
PROJECTED 9M. FROM NORTH
88-11



MACNEILL INDUSTRIAL LTD.		
SPOKANE PROJECT DRILL HOLE SECTION		
(89-3, 4 & 5)		
G.L.VENHUIZEN, B.SC., P.ENG.		
DRAWN: G.L.V./dw	SCALE: 1:500	FIG.
DATE: MAR., 1989	N.T.S. 92J/16W	5

0 5 10 20 30 METRES

Section at 117° 30' Az.



MACNEILL INDUSTRIAL LTD.		
SPOKANE PROJECT DRILL HOLE SECTION (89-6 & 89-7)		
G.L.VENHUIZEN, B.SC., P.ENG.		
DRAWN: G.L.V./dw	SCALE: 1:500	FIG.
DATE: MAR., 1989	N.T.S. 92J/16W	6

down dip with 89-3 and 89-4 giving assays of .31 and .12 opt Au over about 4 meters true width while 89-5 intersected a portion of the vein containing a wedge of actinolite schist and dacite with a total width including the "horses" of 4 meters with 1 meter of quartz and .4 meters grading .27 opt Au. Holes 89-3, 4 and 5 were drilled at a 95 degree azimuth, intersected the vein at virtually the same elevation and so indicate a local strike of 95 degrees with hole 88-8 demonstrating a dip to the south.

Holes 89-6 and 89-7 were drilled to intersect the vein at deeper depths than 89-1 to 5. 89-6 intersected the vein between 69.26 and 74.73 meters and 89-7 intersected the vein between 42.18 and 47.39 meters. Both 89-6 and 89-7 intersected another deeper vein between 92.48 and 96.15 meters in 89-6 and between 67.87 and 69.27 meters in 89-7. Multiple quartz veins were intersected in both 89-6 and 89-7 with two main veins of similar characteristics. Characteristic of the upper is a section of .66 meters in 89-6 and .25 meters in 89-7 with ~20-30% chalcopyrite + pyrrhotite grading .258 and .282 opt Au respectively which is contained in a 3 to 5 meter intersection of quartz veining averaging about .05 opt Au while the lower section averages .20 opt Au over 2.3 meters in 89-6 and .11 opt Au over 1.4 meters in 89-7. The section of 89-6 shows the quartz veins drawing together toward the east. The intersections in these two holes indicate a local strike running SW in this area.

The vein was drilled in two general areas with 88-2, 88-3, 88-4, 88-5, 88-6 and 88-10 being drilled near to the adit and

88-7, 88-8, 88-10, 88-11, 88-12, 89-1, 89-2, 89-3, 89-4, 89-5, 89-6 and 89-7 being drilled about 250 meters east of the adit. The mineralization encountered in both areas is the same being massive milky quartz in dimensions up to 7 meters with the primary sulfides being chalcopyrite and pyrrhotite. The enclosing rocks are the same and the strike of the system is generally east-west in both places. This leads to the conclusion that the veins are continuous between the two areas. The dip of the vein at the eastern sites is found to be south while at the western sites it is found to be north.

Typical samples of the rocks encountered were submitted for a petrological analyses. The results of the analysis show that the unit logged as serpentinite, dark green and black mottled is an altered lherzolitic ultramafic consisting largely of talc with minor serpentine and tremolite plus remnants of primary pyroxenes and olivine. The argillite submitted was confirmed as argillite with some siliceous intercalations containing disseminated pyrrhotite, the sample which is logged as dacite is actually an andesite porphyry, while the granodiorite unit was classified as a rhyodacite porphyry. A sample of quartz containing chalcopyrite and pyrrhotite did not reveal any gold included with these sulfides. Geochemical analysis show that gold occurs with elevated bismuth and arsenic and so is probably found in a sulfide mineral which is relatively rare in the deposit. Generally, the petrographical analyses confirmed the initial identifications of the major rock types with differences being accountable by variation within the rock units.

Individual drill core analysis are not that meaningful as the distribution of the gold bearing mineral(s) is not as yet understood. The true tenor of the deposit will probably become known only through a bulk sampling program.

Maps showing drill hole locations have been compiled with previous programs but note that different control points have been established as previous mapping jobs used control points no longer found and therefore the compilations have errors which can only be corrected through remapping.

Facilities to safely store the drill core have not been provided. Most of the core from the subject drilling program has been left on the site near to the hole collars. Core from holes 88-11, 88-12, 89-1 to 7 and the bottom half of 88-8 is stored in Vancouver as winter conditions made logging and splitting the core at the site impractical. A core shed should be constructed at the site to provide permanent storage for the core.

CONCLUSIONS AND RECOMMENDATIONS

Widths and grades of quartz veins on the Spokane property demonstrate a good potential for a Au-Cu orebody. The width of the quartz vein is shown to be consistently from 2 meters to 20 meters with grades ranging up to .40 opt Au over 6 meters. Low Au values found throughout the vein system are significant in that they indicate gold mineralization of as yet undetermined average grade due to the "nugget" effect. The mineralization encountered in the two areas drilled which are separated by 250

meters is the same being white massive milky quartz with chalcopyrite and pyrrhotite being the principle sulfides. The host rocks are also the same which leads to the conclusion that the mineralization is continuous between the two areas. Strike lengths and widths of the vein system revealed to date show that the deposit has potential for large tonnages in widths amenable to cost effective underground mining. Some of the deposit near to the surface may be amenable to open pit mining. The gold is probably contained in a rarely occurring mineral which due to random distribution creates a "nugget effect" which will make estimating a grade for the deposit difficult without bulk sampling. Copper values found will add significantly to the gross metal value of the deposit.

It is the author's recommendation that drilling on the property continue to confirm continuity between the two zones which have been drilled and eventually define the deposit to depths up to 300 meters and along a strike length of around 500 meters to give information leading to a pilot underground bulk sampling program. The drilling is recommended in three phases with each phase dependent on results of the previous phase. Road work previously recommended should be completed to facilitate access to the property and thus to reduce time and costs for subsequent work programs. Adequate storage facilities for the drill core should also be provided.

Greg L. Ven Huizen, P.Eng.

20 March 1989

(REVISED 22 AUGUST 1989)

ITEMIZED COST STATEMENT

LABOR AND SUPERVISION 26- August- 15 November 1988			
Re: Stryder Explorations Ltd.			
John Monks 39 days @100 (camp labor)....	\$3900		
Marcel Rains 9 days @ \$90 (camp labor)...	810		
Eric Payne 50 days @ \$75 (camp cook).....	3750		
Kent Kirby 28 days @ \$100 (camp labor)...	2800		
Paul Clifford 5.5 days @\$100(grid work)..	550		
John Kime 5 days @125.....	625		
Lynn Cram 13 days @\$75(camp cook).....	975		
Tony Jakobowski 13 days @\$100 (camp labor)	1300		
Greg Ven Huizen 61 days @\$275 (geologist)	16775		
Engineer and Consultant.....	3000	=	34485
CAMP COSTS 26 August- 15 November 1988			
Re: Stryder Explorations Ltd.-includes above personnel in addition to 4 man drill crew			
Camp equipment and construction.....	6632		
Groceries and camp supplies.....	11087		
Radio phone.....	874	=	18593
EQUIPMENT RENTALS 26 August- 15 November 1988			
Re: Stryder Explorations Ltd.			
D6 Cat 99.6 hours @ 87.5.....	8715		
D7 Cat 71 hours @ 95.....	6745		
Clark 760 skidder 41 hours @ 32.....	1312	=	16772
TRANSPORTATION 26 August- 15 November 1988			
Re: Stryder Explorations Ltd.			
Budget Rent a Car.....	3779		
Airways.....	1500		
John Kimes.....	125		
Lloyd Brewer.....	275		
Helicopter 1.2 hrs @ 520.....	702	=	6381
FUEL CHARGES 26 August- 15 November 1988			
Re: Stryder Explorations Ltd.....	2665	=	2665
ASSAYS AND ANALYSES 26 August- 15 November 1988			
Re: Stryder Explorations Ltd.....	4000	=	4000
DRILLING CONTRACT 28 September- 28 November 1989			
Re: Banner Drilling and Exploration Ltd.			
Road and site prep. 93 hrs @ 32.....	2976		
Casing 218 feet @ 24.50.....	5341		
Coring 2040 feet @ 24.....	48960		
Reaming, stabilization and moves 276 hr @ 32.	8863		
57.5 hr @ 30	1725		
Basic mobilization.....	2000		
Casing shoes and drill bits.....	2494		
Cat rental 27 Sep -23 Oct 27 days @116.75	3152		
Motel expenses.....	761		
Fuel for cat 820 litre @ .37 +10%.....	334		
Standby 100 man hours @ 32.....	3200		
190 man hours @ 15.50.....	2945		
40 machine hours @ 20.....	800		
Core splitter @ \$99/ month.....	99		
Core boxes.....	153		
Groceries and propane.....	312		
Drilling fluids and additives.....	661	=	84776

DRILLING CONTRACT 28 NOVEMBER 1988- 15 MARCH 1989

Re: Banner Drilling and Exploration Ltd.

Casing 151 feet @ 27.00.....	4077	
Coring 815 feet @ 26.50.....	21598	
Coring 400 feet for contract of	15000	
Reaming, stabilization and moves		
man hours 537 hr@ 32.	17184	
machine hours 17.5 hr@ 30	525	
Cat hours 132 man hours @ 16.....	2112	
148.5 man hours @ 32.....	4752	
Casing shoes, casing and drill bits....	881	
Motel expenses (drill crew).....	3565	
Diesel fuel	3492	
Standby 104 man hours @ 32.....	3328	
Core splitter @ \$90/ month.....	270	
Core boxes.....	435	
Camp set-up/ maintenance 219 hours @ 32.	7008	
Kerosene, propane and gasoline.....	6178	
Groceries.....	4020	
Drilling fluids and additives.....	1467	
Helicopter (transport men/eqt &supplies)	28502	
Mobile phone charges.....	332	
Camp equipment.....	8769	
Ski-doo rental.....	2218	
Low bed rental (mob cat to Lillooet)....	2016	
Camp cook 23 Dec- 28 Dec 6 days @ 125...	750	
6 Jan- 31 Jan 26 days @ 125...	3250	
Expeditior 21 Dec- 31 Jan 32 days @ 125..	4000==145729	

GEOLOGICAL SUPERVISION (G.L. VEN HUIZEN, P.ENG.)

Site visits 17 Dec, 19, 21, 28, 29 Jan,		
9, 11, 25, 26 Feb 9 days @ 250..	2250	
Gas (for above).....	173	
Mileage (for above) 2571 km @ .20.....	514	
Logging drill core 23 Jan,12, 14, 15,17,		
18, 20, 22, 23, 27, 28 Feb, 1, 2, 4,		
6 Mar (partial days) 10 days @ 250...	2500	
Meals and accommodations for trips.....	221==	5658

COST OF REPORT

Report preparation (G.L.VEN HUIZEN,P.ENG)	2100	
Drafting (Dave Walker).....	2000==	4100

ANALYSES

Acme Analytical.....	620==	620
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GRAND TOTAL..... 323779

CERTIFICATE OF QUALIFICATIONS

I, Greg L. Ven Huizen of 3889 Hudson Street, Vancouver, British Columbia hereby certify that:

1. I am registered in the Association of Professional Engineers of the Province of British Columbia, No. 14584.
2. I am a graduate of the University of Minnesota with a Bachelor of Geo-Engineering Degree (Exploration Option) with Distinction, March 1979.
3. I have been practicing my profession since graduation.
4. The information contained in this report is the result of work carried out under my supervision and the references cited
5. I own no direct, indirect and do not expect to receive any interests in the property covered in this report and on this date own 4000 shares in MacNeill Industrial Inc.


Greg L. Ven Huizen, P.Eng.



12 December 1989

Greg L. Ven Huizen, P.Eng.
3889 Hudson Street
Vancouver, British Columbia V6H 3A9
12 December 1989

T. Kalnins
Ministry of Mines and Petroleum Resources
Parliament Buildings
Victoria, British Columbia V8V 1X4

Dear Sir;

Re: Susan 7 fr., Shamrock (L.1123), Mascot (L.1125)
Columbia (L.1122), Mineral claims worked on
Assessment Report Number 19041

Please accept the revised version of the above report. Revisions include a more detailed cost statement, and metric intervals for samples taken which are included in the drill logs. Note that assay certificates with correlating sample numbers were included in the original report submitted as well as the revised report. The cost statement has been broken down according to invoices supplied to MacNeill Industrial from their drilling contractors in as much detail as possible.

Costs were higher than normal due mainly to access problems, weather conditions and very difficult ground conditions for drilling. After late October, snow falls made access by road very hazardous. Attempts were made to keep the road clear of snow using a bulldozer but failed. Access was attempted by snow mobile but that too failed. Standby costs accumulated with the drilling contractors due to these and other problems. Access was ultimately by helicopter during the winter, but that too was restricted by winds and stormy conditions. Large field cost rates accumulated due to bad ground conditions which required the holes to be conditioned with various drilling fluids and/or extra reaming costs. Drill moves were difficult and costly due to heavy snow conditions at the site. The camp had to be rebuilt as cold weather set in and after the crew was kept out by weather conditions. On one occasion the camp blew down from severe winds and was moved- all at field cost rates as stipulated in the drilling contracts.

I hope this serves as an explanation as to the higher than normal costs incurred. Note that the revised cost estimate is somewhat lower than the original. There may have been an error in including costs previous to the program by accountants at MacNeill Industrial.

Sincerely,


Greg L. Ven Huizen, P.Eng.

APPENDIX I- DRILL LOGS

DRILL LOG HOLE 88-2
 Total Depth 98.15m, Inclination 55 Degrees

DEPTH (M)	DESCRIPTION
0 - 7.01	Casing
7.01- 7.21	Granodiorite, grey medium grained
7.21- 7.82	Chlorite schist, lt greyish green banded
7.82- 8.48	Dacite, lt grey with hornblende
8.48- 10.46	Serpentinite, dk green
10.46- 11.28	Dacite, lt grey
11.28- 13.97	Serpentinite, dk green with some sericitic, chloritic and/or talcy zones
13.97- 15.54	Dacite, lt grey with approximately 30 % qtz stringers
14.33- 14.93	samp 2-4700-4900 Au/.001 opt
14.93- 15.54	samp 2-4900-5100 Au/.001 opt
15.54- 46.79	Granodiorite, grey medium grained minor qtz stringers
46.79- 47.85	Serpentinite, black, chloritic
47.85- 66.50	Granodiorite, grey medium grained
66.50- 70.10	Serpentinite, black/grey mottled some talcy zones
70.10- 73.00	Granodiorite, grey med to fine grained
73.00- 74.68	Serpentinite, highly brecciated
74.68- 75.18	Breccia, with minor chalcopyrite
74.68- 75.18	samp 2-24500-24608/Au .005 opt
75.18- 75.51	Quartz, white milky with 10-15% chalco, and pyrrhotite
75.18- 75.51	samp 2-24608-24709/Au .057 opt
75.51- 83.01	Serpentinite, dark green/grey mottled
83.01- 83.62	Quartz, white milky with 10-15% chalco and pyrrhotite
83.01- 83.62	samp 2-27204-27404/Au .010 opt
83.62- 84.51	Serpentinite, altered to red brown
83.62- 84.51	samp 2-27404-27703/Au .001 opt
84.51- 85.42	Quartz, white milky with 10-15% chalco and pyrrhotite
84.51- 85.42	samp 2-27703-28003/Au .102 opt
85.42- 85.95	Serpentinite, brecciated white talcy minor sulfides
85.42- 85.95	samp 2-28003-28200/Au .013 opt
85.95- 88.04	Serpentinite, dark green some brecciation
88.04- 88.77	Quartz, white milky with 5% sulfides
88.04- 88.77	samp 2-28810-29103/Au .072 opt
88.77- 89.28	Serpentinite, dark green brecciated
89.28- 91.26	Dacite, lt grey
91.26- 92.05	Breccia, white talcy
92.05- 92.41	Dacite, lt Grey
92.41- 93.12	Breccia, white talcy
93.12- 97.38	Dacite, lt grey
97.38- 97.59	Breccia, white talcy
97.59- 98.15	Serpentinite, dk green

DRILL LOG HOLE 88-3
 Total Depth- 108.81m Inclination 55 degrees

Depth (meters)	Description
0 - 7.01	Casing
7.01- 11.38	Dacite, lt green
11.38- 12.34	Granodiorite, grey fine to med grained
12.34- 15.14	Chlorite/sericite schist
15.14- 43.59	Granodiorite, grey fine to med grained
43.59- 44.50	Chlorite/sericite schist
44.50- 48.26	Granodiorite, grey fine to med grained
48.26- 49.23	Serpentinite, dk green
49.23- 56.03	Granodiorite, grey fine to med grained
56.03- 56.31	Chlorite/sericite schist
56.31- 61.57	Granodiorite, grey fine to med grained
61.57- 62.33	Clay seam
62.33- 70.21	Granodiorite, grey fine to med grained
70.21- 81.18	Serpentinite, dk green talcy at contact
81.18- 81.64	Granodiorite, lt grey altered
81.64- 83.29	Kaolinized zone
83.29- 85.12	Breccia, silicified/kaolinized w/ minor sulfides
83.29- 85.12	samp 3-27303-27903 Au 550 ppb Cu .280%
85.12- 90.22	Serpentinite, dk green
90.22- 90.91	Kaolinized, silicified zone includes .48 m of quartz veins
90.22- 90.91	samp 3-29600-29803 Au2000 ppb Cu .984%
90.91- 91.33	Sericite/talc breccia
90.91- 91.33	samp 3-29803-29908 Au 590 ppb Cu .502%
91.33- 93.57	Quartz, white milky with ~5% sulfides
91.33- 93.57	samp 3-29908-30700 Au 307 ppb Cu .391%
93.57- 93.80	Sericite/chlorite schist w .05m qtz
93.80- 94.54	Quartz, white milky with l.t. 5% sulfides
93.57- 94.59	samp 3-30700-31004 Au 125 ppb Cu .168%
94.54- 95.10	Sericite/chlorite schist
94.59- 95.10	samp 3-31004-31200 Au 34 ppb Cu .110%
95.10- 96.11	Chlorite schist dk green
96.11- 96.93	Granodiorite, grey fine to med grained
96.93- 97.23	Quartz, white milky with minor sulfides
96.93- 97.23	samp 3-31800-31900 Au3800 ppb Cu .112%
97.23- 98.73	Chlorite/sericite schist with minor sulfides
97.23- 98.73	samp 3-31900-32311 Au2000 ppb Cu .103%
98.73- 99.44	Quartz, white milky w/ 10-15% sulfides
98.73- 99.44	samp 3-32311-32603 Au3100 ppb Cu .978%
99.44-100.38	Sericite schist lt grey
99.44-100.38	samp 3-32603-32904 Au 74 ppb Cu .084%
100.38-107.87	Granodiorite, grey fine to med grained with some altered zones
107.87-108.81	Serpentinite, dk green to black

DRILL LOG HOLE 88-4
Total Depth 22.86 meters Inclination 55 deg
(ABANDONED DUE TO BAD GROUND)

Depth (meters)	Description
0 - 10.67	Casing
10.67- 22.86	Dacite porphyry, lt grey with white plag pheno

DRILL LOG HOLE 88-5
 Total Depth 85.95m, Inclination 55 degrees

DEPTH (M)	DESCRIPTION
0 - 12.19	Casing
12.19- 36.58	Dacite porphyry, lt grey w/ white plag pheno
36.58- 40.59	Quartz, white milky w/ 5-10% sulfides
36.58- 40.59	samp 5-12000-13302 Au 403 ppb Cu .712%
40.59- 54.15	Dacite porphyry, lt grey w/ white plag pheno
54.15- 54.86	Quartz, white milky some breccia 10-15% sulf.
54.15- 54.86	samp 5-17708-18000 Au1150 ppb Cu .748%
54.86- 57.96	Dacite porphyry, lt grey w/ white plag pheno
57.96- 59.69	Serpentinite, broken up poor recovery
59.69- 60.05	Breccia, silicified w/ l.t. 5% sulfides
59.69- 61.11	samp 5-19510-20006 Au 92 ppb Cu .096%
60.05- 61.11	Quartz/dacite stockwork ~50% qtz stringers
61.11- 64.16	Quartz, white milky w/ l.t. 5% sulfides
61.11- 64.16	samp 5-20006-21006 Au 80 ppb Cu .048%
64.16- 65.53	Quartz, white milky w/ ~10% sulfides
64.16- 65.53	samp 5-21006-21500 Au 805 ppb Cu .604%
65.53- 65.84	Sericite/chlorite schist, lt green
65.53- 65.84	samp 5-21500-21600 Au 90 ppb Cu .079%
65.84- 66.95	Quartz, white milky w/ ~10% sulfides
65.84- 66.95	samp 5-21600-21908 Au 860 ppb Cu .298%
66.95- 67.72	Dacite porphyry, chloritized
66.95- 67.72	samp 5-21908-22202 Au 425 ppb Cu .089%
67.72- 69.24	Quartz, white milky w/ ~10% sulfides
67.72- 69.24	samp 5-22202-22702 Au4000 ppb Cu .470%
69.24- 70.41	Serpentinite, lt green banded
69.24- 70.41	samp 5-22702-23100 Au 340 ppb Cu .075%
70.41- 75.29	Quartz, white milky w/10-15% sulfides
70.41- 75.29	samp 5-23100-24700 Au3470 ppb Cu .980%
75.29- 84.43	Quartz, white milky (7% recovery)
75.29- 84.43	samp 5-24700-27700 Au 780 ppb Cu .620%
84.43- 85.95	No recovery clay seam ?

DRILL LOG HOLE 88-6
 Total Depth 145.69m, Inclination 55 Degrees

DEPTH (M)	DESCRIPTION
0 - 12.80	Casing
12.80- 31.62	Dacite, lt.grey w. some hornblende
31.62- 32.61	Serpentinite, dk green
32.61- 41.22	Granodiorite, tan fine to med grained
41.22- 42.06	Serpentinite, dk green to black
42.06- 47.24	Sericite schist, banded lt tan
47.24- 48.67	Granodiorite, tan fine to med grained
48.67- 49.81	Serpentinite, dk green to black
49.81- 50.83	Granodiorite, tan fine to med grained
50.83- 54.25	Quartz, white milky w ~10% sulfides
50.83- 54.25	Samp 6-16609-17800 Au 160ppb Cu .803%
54.25- 59.54	Dacite, lt grey
59.54- 63.09	Quartz, white milky some breccia ~10% sulfides
59.54- 63.09	Samp 6-19504-20700 Au 280ppb Cu .710%
63.09- 63.45	Serpentinite, talcy
63.09- 63.45	Samp 6-20700-20802 Au 36ppb Cu .171%
63.45- 77.11	Quartz, white milky ~10% sulfides
63.45- 69.19	Samp 6-20802-22700 Au 374ppb Cu .635%
69.19- 77.11	Samp 6-22700-25300 Au 470ppb Cu .212%
77.11- 78.64	Breccia, black ultrabasics,dacite qtz ~5% sulf.
77.11- 78.64	Samp 6-25300-25800 Au 138ppb Cu .164%
78.64- 79.68	Quartz, white milky ~5% sulfides
78.64- 79.68	Samp 6-25800-26105 Au 480ppb Cu .965%
79.68- 81.38	Breccia, black ultrabasics,dacite/qtz ~5% sulf.
79.68- 81.38	Samp 6-26105-26700 Au 378ppb Cu .447%
81.38- 86.33	Quartz, white milky ~10% sulfides
81.38- 86.33	Samp 6-26700-28303 Au4200ppb/.134opt Cu.740%
86.33- 95.10	Dacite, lt grey
95.10- 99.62	Argillite, black w/ ~5% qtz/carb stringers
99.62-100.28	Silicified contact, w/ chlorite and minor sulf.
100.28-102.72	Dacite, brecciated/silicified
102.72-145.69	Argillite, black w/ ~5% qtz/carb stringers

DRILL LOG HOLE 88-7

Total depth 149.77m (493 feet) Inclination 55 Degrees

DEPTH	DESCRIPTION
0 -123.94	undifferentiated dacite granodiorite and serpentinite (not logged in detail)
123.94-132.76	Granodiorite, dark greenish grey, chloritized
132.76-134.28	Serpentinite, dark green/black mottled
134.28-139.34	Granodiorite, greenish grey, sericitized and chloritized
139.34-140.81	Quartz, greyish with ~20% chloritized granodiorite, <3% sulfides
139.80-141.43	Samp 7-45808-46400 Au .004 opt Cu .024%
140.81-149.77	Granodiorite, greenish grey, sericitized and chloritized

DRILL LOG HOLE 88-8

Total depth 81.11m (267 feet) Inclination 55 Degrees

DEPTH	DESCRIPTION
0 - 13.11	Casing
13.11- 14.45	Quartz, white milky w/ chlorite minor sulfides
13.11- 14.45	samp 8- 4300- 4705 Au .219 opt Cu .021%
14.45- 14.63	Dacite, bleached, silicified and chloritized
14.15- 14.63	Samp 8- 4705- 4800 Au .187 opt Cu .268%
14.63- 15.24	Quartz, white milky w/ chlorite ~15% sulf.
14.63- 15.24	Samp 8- 4800- 5000 Au .831 opt Cu .810%
15.24- 17.07	Quartz, white milky w/ minor sulfides
15.24- 17.07	Samp 8- 5000- 5600 Au .043 opt Cu .010%
17.07- 17.68	Chlorite schist, dk green
17.07- 17.68	Samp 8- 5600- 5800 Au .001 opt Cu .009%
17.68- 20.73	Quartz, white milky, w/ 5-10% sulfides
17.68- 20.73	Samp 8- 5800- 6800 Au .532 opt Cu .400%
20.73- 21.95	Quartz, white milky, w/ 50% chlorite & 5-10% sulfides
20.73- 21.95	Samp 8- 6800- 7200 Au .225 opt Cu .186%
21.95- 22.94	Quartz, as above but w/ 15% chlorite
21.95- 22.94	Samp 8- 7200- 7503 Au .661 opt Cu .925%
22.94- 26.11	Quartz, white milky w/~5% sulfides
22.94- 26.11	Samp 8- 7503- 8508 Au .129 opt Cu .299%
26.11- 26.92	Serpentinite, mottled dk green and black
26.92- 29.57	Dacite, greenish grey fine grained
29.57- 30.61	Serpentinite, mottled dk green and black
30.61- 34.65	Dacite, greenish grey fine grained
34.65- 36.02	Quartz, white milky w/ 20% chlorite
34.65- 36.02	Samp 8-11308-11802 Au .072 opt Cu .074%
36.02- 38.71	Quartz, white milky minor sulfides and chlorite
36.02- 38.71	Samp 8-11802-12700 Au .071 opt Cu .054%
38.71- 44.20	Stockwork, alt tan dacite w/ ~40% qtz stingers
44.20- 45.42	Serpentinite, dk green/black mottled
45.42- 46.33	Clay zone
46.33- 47.96	Quartz, white milky w/ ~5% sulfides
46.33- 47.96	Samp 8-15200-15704 Au .036 opt Cu .336%
47.96- 50.90	Serpentinite, dk green/black mottled
54.08- 54.38	Quartz, white milky; minor sulfides
54.25- 54.56	Samp 8-17800-17900 Au .006 opt Cu .061%
54.38- 54.68	Quartz/chlorite schist, dark green & white
54.56- 54.86	Samp 8-17900-18000 Au .005 opt Cu .073%
54.68- 59.85	Quartz, white milky; minor sulfides
54.86- 57.91	Samp 8-18000-19000 Au .001 opt Cu .021%
57.91- 60.05	Samp 8-19000-19700 Au .007 opt Cu .057%
59.85- 64.10	Granodiorite, light green, chloritized and silicified
60.05- 64.31	Samp 8-19700-21100 Au .001 opt Cu .054%
64.10- 65.92	Sericite/chlorite/talc schist, light greenish grey, very soft
64.31- 66.14	Samp 8-21100-21700 Au .001 opt Cu .062%
65.92- 68.05	Quartz, white massive milky, ~ 5% chalcopyrhh.
66.14- 68.28	Samp 8-21700-22400 Au .023 opt Cu .397%

(CONTINUED ON NEXT PAGE)

68.05- 68.66	Quartz, white massive milky, ~ 10-15% chalco+pyrrh.
68.28- 68.88	Samp 8-22400-22600 Au .298 opt Cu2.780%
68.66- 70.18	Quartz, white massive milky, ~ 5% chalco+pyrrh.
68.88- 70.41	Samp 8-22600-23100 Au .019 opt Cu .244%
70.18- 75.34	Quartz, white massive milky, ~ 10-15% chalco+pyrrh.
70.41- 72.85	Samp 8-23100-23900 Au .114 opt Cu1.230%
72.85- 75.59	Samp 8-23900-24800 Au .084 opt Cu1.710%
75.34- 78.20	Quartz, white massive milky, ~ 5% chalco+pyrrh.
75.59- 77.72	Samp 8-24800-25500 Au .005 opt Cu .175%
77.72- 78.46	Samp 8-25500-25705 Au .006 opt Cu .184%
78.20- 81.11	Granodiorite, light green, chloritized (17% recovery)

DRILL LOG HOLE 88-10
 Total Depth 106.68m, Inclination 65 degrees

DEPTH	DESCRIPTION
0 - 9.14	Casing
9.14- 37.19	Dacite, lt grey porphyry white plag pheno
37.19- 40.77	Granodiorite, tan fine to med grained
40.77- 48.77	Serpentinite, black
48.77- 53.11	Granodiorite, grey fine to med grained
53.11- 56.39	Serpentinite, black
56.39- 61.57	Dacite, lt green aphanitic
61.57- 63.70	Serpentinite, green talcy
63.70- 64.52	Clay seam
64.52- 64.92	Quartz, white milky, w/5-10% sulfides
64.52- 64.92	Samp 10-21108-21300 Au .004 opt Cu .102%
64.92- 66.65	Breccia, gougy
64.92- 66.65	Samp 10-21300-21808 Au .077 opt Cu .605%
66.65- 67.56	Quartz, white milky, w/5% sulfides
66.65- 67.56	Samp 10-21808-22108 Au .018 opt Cu 1.130%
67.56- 67.97	Breccia, gougy w/ ~10% sulfides
67.56- 67.97	Samp 10-22108-22300 Au .006 opt Cu 2.440%
67.97- 75.29	Quartz, white milky, w/ 5-10% sulfides
67.97- 75.29	Samp 10-22300-24700 Au .018 opt Cu .291%
75.29- 76.96	Dacite, lt grey
76.96- 77.11	Breccia, gougy
76.96- 77.11	Samp 10-25206-25300 Au .005 opt Cu .202%
77.11- 78.18	Quartz, white milky w/ ~10% sulfides
77.11- 78.18	Samp 10-25300-25606 Au .068 opt Cu .061%
78.18- 79.63	Quartz/carb/chlorite schist w ~10% sulfides
78.18- 79.63	Samp 10-25606-26103 Au .330 opt Cu .980%
79.63- 80.16	Breccia, gougy
79.63- 80.16	Samp 10-26103-26300 Au .014 opt Cu .276%
80.16- 80.98	Quartz/carb/chlorite schist w ~10% sulfides
80.16- 80.98	Samp 10-26300-26508 Au .109 opt Cu .497%
80.98- 85.14	Quartz, white milky w/ ~5-10% sulfides
80.98- 85.14	Samp 10-26508-27904 Au .531 opt Cu 1.930%
85.14-102.41	Dacite, lt grey to dk grey, some porphyry zones
102.41-104.55	Serpentinite, dk green/black mottled
104.55-106.68	Dacite, med grey aphanitic

DRILL LOG HOLE 88-11
 Total Depth 96.30m (317 feet), Inclination 55 degrees

DEPTH	DESCRIPTION
0 - 6.08m	Casing
6.08- 9.11	Granodiorite, tan fine to med grained
9.11- 32.20	Serpentinite, dark green and black mottled, massive
32.20- 32.66	Talc, chlorite, sericite schist, light greenish grey
32.66- 33.11	Granodiorite, tan fine to med grained
33.11- 38.43	Serpentinite, dark green, talcy
38.43- 38.66	Kaolinized zone, light grey
38.66- 38.86	Quartz, white massive with little sulfides
38.66- 38.86	Samp811-12700-12804 Au .187 opt/Ag .01opt/Cu .10%
38.86- 39.53	Kaolin, light grey
39.53- 41.62	Serpentinite, dark green to black, slightly schistose
41.62- 44.05	Serpentinite, dark green and black mottled, massive
44.05- 50.00	Argillite, reddish brown near contact to dark grey
50.00- 60.91	Granodiorite, tan, fine to med grained
60.91- 67.14	Serpentinite, dark green and black mottled, massive
67.14- 78.38	Granodiorite, tan fine to med grained
78.38- 86.43	Argillite, black, minor qtz-carb in irregular cracks, massive
86.43- 92.81	Granodiorite, tan fine to med grained
92.81- 96.30	Argillite, black, some banding with white quartz carbonate

DRILL LOG HOLE 88-12
 Total Depth 45.57m (150 feet), Inclination 55 degrees

DEPTH	DESCRIPTION
0 - 7.29	overburden -granodiorite boulders
7.29- 14.28	Granodiorite, tan, fine to med grained
14.28- 14.73	Argillite, black with minor white quartz/carb
14.73- 16.86	Granodiorite, tan, fine to med grained
16.86- 19.90	Argillite, black with minor white quartz/carb apx 6 cm quartz at contact
19.90- 20.35	Chlorite, talk, sericite schist, light greyish green, schistosity @ ~ 45 deg to core
20.35- 21.87	Serpentinite, dark green, chloritic
21.87- 23.39	Dacite, lt green, chloritic
23.39- 25.37	Serpentinite, dark green, chloritic
25.37- 31.29	Granodiorite, tan, medium grained with talc and chlorite on seams 4 cm quartz at 30 m
31.29- 35.54	Serpentinite, dark green and black mottled, massive
35.54- 40.86	Granodiorite, tan, medium grained
40.86- 41.92	Serpentinite, dark green, massive
41.92- 45.57	Dacite, light greyish green, silicified on very fine fractures with minor sulfides (pyrrhoite chalcopyrite and pyrite)
41.92- 42.73	samp 812-13800-14008/Au 23ppb/Ag .4ppm/Cu211ppm
42.73- 44.05	samp 812-14008-14500/Au 58ppb/Ag .3ppm/Cu265ppm
44.05- 45.57	samp 812-14500-15000/Au 103ppb/Ag .3ppm/Cu384ppm

DRILL LOG HOLE 89-1
Total Depth 33.42m (110 feet), Inclination 65 degrees

DEPTH	DESCRIPTION
0 6.01	casing
6.01- 9.72	overburden -granodiorite boulders
9.72- 10.58	Quartz, white, approximately 3 % sulfides (pyrrhotite + chalcopyrite) and up to 35% chlorite, kaolin and sericite
9.72- 10.58	Samp 91- 3200- 3410 Au .028opt/Ag .03opt/Cu .20%
10.58- 11.34	Actinolite schist, greenish grey radiating fibrous crystals up to .5 cm
10.58- 11.34	Samp 91- 3410- 3704 Au .021opt/Ag .02opt/Cu .13%
11.34- 13.47	Quartz, white massive with < 1% sulfides, 10% dark green chlorite
11.34- 12.46	Samp 91- 3704- 4100 Au .006opt/Ag .01opt/Cu .01%
12.46- 13.47	Samp 91- 4100- 4404 Au .030opt/Ag .02opt/Cu .03%
13.47- 19.14	Dacite, greenish grey, kaolinized and chloritized at contact zones
13.47- 14.05	Samp 91- 4404- 4603 Au .002opt/Ag .02opt/Cu .01%
14.05- 15.19	Samp 91- 4603- 5000 Au .007opt/Ag .01opt/Cu .01%
19.14- 20.35	Chlorite schist, greenish grey with sericite, contact zone
20.35- 21.57	Serpentinite, dark green and black mottled, massive
21.57- 25.22	Dacite, dark greenish grey, highly chloritized
25.22- 25.82	Granodiorite, reddish brown, fine to medium grained contact at 45 degrees
25.82- 26.28	Dacite, dark grey, some talcy zones
26.28- 31.29	Granodiorite, reddish brown, fine to medium grained
31.29- 33.42	Argillite, black with quartz-carbonate bands and in irregular cracks bands at about 45 degrees to core

DRILL LOG HOLE 89-2
 Total Depth 31.90m (105 feet), Inclination 80 degrees

DEPTH	DESCRIPTION
0 - 7.29	overburden -granodiorite boulders
7.29- 10.94	Quartz, white massive, minor sulfides ~ 1% pyrrhotite, up to 30% altered granodiorite, chlorite, sericite and talc
7.29- 7.90	Samp 92- 2400- 2600 Au .001opt/Ag .03opt/Cu .01%
7.90- 10.94	Samp 92- 2600- 3600 Au .009opt/Ag .03opt/Cu .04%
10.94- 11.54	Granodiorite, tan, fine to med grained, minor quartz stringers (< 10%)
11.54- 12.15	Serpentinite, black, very soft, chloritized
12.15- 15.19	Dacite, greyish green
15.19- 15.34	Serpentinite, dark green, chloritic
15.34- 15.47	Quartz, white little or no sulfides
15.47- 16.56	Dacite, tan, fine grained
16.56- 17.01	Serpentinite, dark green and black mottled, massive
17.01- 17.77	Granodiorite, tan, fine to med grained
17.77- 31.90	Argillite, reddish brown near upper contact grading to black with minor quartz carbonate in irregular fractures and/or as bands some minor sulfides (< 1%)

DRILL LOG HOLE 89-3
 Total Depth 60.76m (200 feet), Inclination 55 degrees

DEPTH	DESCRIPTION
0 - 5.16m	casing
5.16- 8.05	Granodiorite boulders
8.05- 12.91	Granodiorite, tan, fine to medium grained
12.91- 13.34	Serpentinite, dark green to black
13.34- 14.43	Quartz w/ chlorite schist and kaolin, white, with apx 2-3% chalco, and 30% chlorite and kaolin
13.34- 13.70	Samp 93- 4311- 4501 Au .756opt/Ag .53opt/Cu 1.79%
13.70- 14.46	Samp 93- 4501- 4707 Au .404opt/Ag .05opt/Cu .24%
14.43- 18.23	Quartz, white massive, minor sulfides apx 15% chlorite and kaolin
14.46- 15.80	Samp 93- 4707- 5200 Au .088opt/Ag .05opt/Cu .20%
15.80- 17.32	Samp 93- 5200- 5700 Au .510opt/Ag .06opt/Cu .12%
17.32- 18.23	Samp 93- 5700- 6000 Au .043opt/Ag .01opt/Cu .04%
18.23- 21.87	Quartz, white, with kaolinized zones only 8% recovery
18.23- 21.87	Samp 93- 6000- 7200 Au .012opt/Ag .04opt/Cu .10%
21.87- 33.11	Dacite, greyish green to tan
33.11- 47.09	Argillite, black with minor quartz carbonate
47.09- 49.22	Granodiorite, light green, highly chloritized
49.22- 60.76	Argillite, black with minor quartz carbonate in irregular cracks and some bands

DRILL LOG HOLE 89-4

Total Depth 16.40m (54 feet), Inclination 70 degrees

DEPTH	DESCRIPTION
0 - 11.24m	casing
11.24- 11.85	Granodiorite boulders
11.85- 11.95	Chlorite-sericite schist, light green
11.95- 16.10	Quartz, white, massive 3-4% sulfides, 10% chlorite +sericite
11.95- 13.67	Samp 94- 3904- 4500 Au .220opt/Ag .03opt/Cu .13%
13.67- 16.10	Samp 94- 4500- 5300 Au .045opt/Ag .07opt/Cu .16%
16.10- 16.40	Kaolin and breccia- hole ended prematurely

DRILL LOG HOLE 89-5
 Total Depth 43.14m (142 feet), Inclination 90 degrees

DEPTH	DESCRIPTION
0 - 8.20m	casing
8.20- 9.42	Granodiorite, tan, fine to medium grained, ~20% quartz stringers
8.20- 9.42	Samp 95- 2700- 3100 Au .002 opt/Ag .01opt/Cu .04%
9.42- 10.53	Quartz, white, massive, <1% sulfides, 10% chlorite +sericite
9.42- 10.53	Samp 95- 3100- 3408 Au .005opt/Ag .01opt/Cu .01%
10.53- 10.84	Chlorite-actinolite schist, dark green
10.53- 10.84	Samp 95- 3408- 3508 Au .001opt/Ag .01opt/Cu .04%
10.84- 11.95	Quartz, white, massive with minor sulfides
10.84- 11.95	Samp 95- 3508- 3904 Au .031opt/Ag .01opt/Cu .03%
11.95- 14.28	Dacite, light greyish green, massive
14.28- 14.68	Quartz, white , ~5% sulfides and ~10% chlorite
14.28- 14.68	Samp 95- 4700- 4804 Au .275opt/Ag .01opt/Cu .12%
14.68- 15.80	Granodiorite, dark grey
15.80- 20.05	Argillite, black with minor qtz-carbonate in irregular cracks
20.05- 23.09	Granodiorite, dark greyish green
23.09- 24.61	Argillite, black with minor qtz-carbonate in irregular cracks
24.61- 30.07	Dacite, light greyish green, massive
30.07- 43.14	Argillite, black with minor qtz-carbonate in irregular cracks

DRILL LOG HOLE 89-6
 Total Depth 103.90m (342 feet), Inclination 55 degrees

DEPTH	DESCRIPTION
0 - 6.08m	casing
6.08- 10.33	overburden, rubble, dacite porphyry boulders
10.33- 18.53	Meta-greywacke, grey, with dark grey bands and swirls
18.53- 19.04	kaolin, talc-sericite schist, lt. greyish green
19.04- 20.66	Dacite, light greyish green, some hornblende phenocrysts ~1.5 mm
20.66- 20.96	kaolin, talc-sericite schist, lt. greyish green
20.96- 34.33	Dacite, light greyish green, some hornblende phenocrysts ~1.5 mm
34.33- 44.81	Granodiorite, light tan, fine to med grained
44.81- 44.96	Talc/sericite/chlorite schist, lt. greenish grey, very soft
44.96- 47.70	Serpentinite, dark greyish green & black
47.70- 55.29	Granodiorite, reddish brown, fine to med grained
55.29- 55.75	Granodiorite, greyish green, chloritized
55.75- 58.34	Serpentinite, brownish green, talcy
58.34- 59.09	Talc/chlorite/sericite schist, lt greenish grey, very soft
59.09- 65.09	Serpentinite, dark green and black mottled
65.09- 68.35	Granodiorite, light reddish brown, fine to med grained, with some talc
68.35- 69.26	Serpentinite, light greyish green, very soft- talcy with kaolin and sericite
69.26- 69.82	Quartz, white milky, very little sulfides
69.26- 69.82	Samp 96-22800-22910 Au .002 opt /Cu .02%
69.82- 70.48	Quartz, white with ~30% chalcopyrite + pyrhotite
69.82- 70.48	Samp 96-22910-23200 Au .258 opt /Cu 4.42%
70.48- 73.39	Quartz, white with ~3% sulfides & ~5% chlorite
70.48- 73.39	Samp 96-23200-24107 Au .016 opt /Cu .11%
73.39- 74.73	Quartz, white with ~2% sulfides & ~30% chlorite
73.39- 74.73	Samp 96-24107-24600 Au .069 opt /Cu .40%
74.73- 75.70	Talc, chlorite sericite schist, includes some altered granodiorite
74.73- 75.70	Samp 96-24600-24902 Au .001 opt /Cu .01%
75.70- 76.56	Talc, chlorite, sericite, quartz schist ~50% quartz, little or no sulfides
75.70- 76.56	Samp 96-24902-25200 Au .002 opt /Cu .01%
76.56- 77.54	Kaolin, light grey, clay zone
76.56- 77.54	Samp 96-25200-25503 Au .020 opt /Cu .38%
77.54- 79.59	Granodiorite, light greyish green, chloritized, kaolinized and silicified
77.54- 79.59	Samp 96-25503-26200 Au .001 opt /Cu .01%
79.59- 80.91	Quartz, white milky with ~20% chlorite, little sulfides
79.59- 80.91	Samp 96-26200-26604 Au .019 opt /Cu .19%
80.91- 83.85	Granodiorite, tan with ~25% quartz stringers
80.91- 83.85	Samp 96-26604-27600 Au .001 opt /Cu .02%
83.85- 84.25	Quartz, white milky, with little sulfides
83.85- 84.25	Samp 96-27600-27704 Au .001 opt /Cu .02%

84.25- 87.72 Granodiorite, tan with ~20% quartz stringers
 84.25- 87.72 **Samp 96-27704-28809 Au .001 opt /Cu .01%**
 87.72- 90.23 Talc, sericite, chlorite schist, includes ~10 cm of
 quartz with little sulfides
 87.72- 90.23 **Samp 96-28809-29700 Au .001 opt /Cu .01%**
 90.23- 90.66 Talc, sericite, chlorite schist, light greenish
 grey, very soft
 90.23- 90.66 **Samp 96-29700-29805 Au .001 opt /Cu .02%**
 90.66- 90.96 Quartz, traces of fuschite, no apparent sulfides
 90.66- 90.96 **Samp 96-29805-29905 Au .001 opt /Cu .01%**
 90.96- 92.48 Serpentinite, varies to talc-sericite-chlorite
 schist
 90.96- 92.48 **Samp 96-29905-30405 Au .002 opt /Cu .03%**
 92.48- 93.87 Quartz, white massive, no apparent sulfides
 92.48- 93.87 **Samp 96-30405-30900 Au .003 opt /Cu .01%**
 93.87- 94.56 Quartz, white milky, with 20% chalco+pyrrh, and 15%
 chlorite
 93.87- 94.56 **Samp 96-30900-31103 Au .480 opt /Cu 3.52%**
 94.56- 96.15 Quartz, white milky, with ~3% sulfides and 30%
 chlorite
 94.56- 96.15 **Samp 96-31103-31606 Au .074 opt /Cu .44%**
 96.15-103.90 Serpentinite, dark green to black mottled

DRILL LOG HOLE 89-7
 Total Depth 75.95m (250 feet), Inclination 70 degrees

DEPTH	DESCRIPTION
0 - 3.95m	casing
3.95- 7.59	overburden
7.59- 9.92	Quartz, white, massive milky, ~10% chlorite some pebbly zones indicating it may be large pieces of float, (8.81 to 9.92 only 50% recovery)
7.59- 8.81	Samp 97- 2500- 2900 Au .016opt, Cu .04%
8.81- 9.92	Samp 97- 2900- 3208 Au .003opt, Cu .01%
9.92- 10.94	Talc, chlorite, sericite schist, light greyish green
9.92- 10.94	Samp 97- 3208- 3600 Au .001opt, Cu .01%
10.94- 14.08	Serpentinite, dark green to black, chloritic
14.08- 14.78	Quartz, white, massive, minor sulfides ~5% chlorite
14.08- 14.78	Samp 97- 4604- 4808 Au .091opt, Cu .06%
14.78- 18.46	Dacite, light greyish green, massive
17.92- 18.46	Samp 97- 5900- 6009 Au .001opt, Cu .01%
18.46- 19.44	Quartz, white, massive, minor sulfides
18.46- 19.44	Samp 97- 6009- 6400 Au .004opt, Cu .02%
19.44- 20.05	Talc, chlorite, sericite schist, light greenish grey, very soft
19.44- 20.05	Samp 97- 6400- 6600 Au .001opt, Cu .04%
20.05- 22.03	Granodiorite, reddish brown, fine to medium grained
22.03- 23.24	Talc, chlorite, sericite schist, light greenish grey, very soft
23.24- 24.91	Serpentinite, dark green and black mottled, massive
24.91- 27.47	Granodiorite, reddish brown, fine to medium grained
27.47- 29.47	Talc, chlorite, sericite schist, light greenish grey, very soft
27.47- 28.86	Samp 97- 9005- 9500 Au .001opt, Cu .03%
28.86- 29.47	Samp 97- 9500- 9700 Au .001opt, Cu .02%
29.47- 30.08	Quartz, white massive milky, ~10% chlorite, minor sulfides
29.47- 30.08	Samp 97- 9700- 9900 Au .002opt, Cu .24%
30.08- 30.53	Talc, sericite, chlorite schist, light greenish grey very soft
30.08- 30.53	Samp 97- 9900-10006 Au .001opt, Cu .07%
30.53- 33.90	Serpentinite, dark green and black mottled, massive (8cm of quartz at contact)
33.90- 35.54	Granodiorite, reddish brown, fine to medium grained
35.54- 38.43	Serpentinite, light green, very soft
38.43- 41.01	Serpentinite, dark green and black mottled, massive
41.01- 42.63	Talc, sericite, chlorite schist, light greenish grey very soft
41.01- 42.18	Samp 97-13500-13810 Au .006opt, Cu .08%
42.18- 42.63	Samp 97-13810-14004 Au .026opt, Cu .26%
42.63- 44.05	Quartz, white massive milky, ~5% chalcopyrite+ pyrrhotite with ~30% talc +chlorite
42.63- 43.29	Samp 97-14004-14206 Au .001opt, Cu .08%
43.29- 44.05	Samp 97-14206-14500 Au .035opt, Cu .08%

CONTINUED ON NEXT PAGE

44.05- 44.30 Quartz, white massive milky, ~25% chalcopyrite+
pyrrhotite with ~10% talc +chlorite

44.05- 44.30 **Samp 97-14500-14510 Au .282opt, Cu 2.98%**

44.30- 45.04 Quartz, white massive milky, ~30% black chlorite

44.30- 45.04 **Samp 97-14510-14803 Au .058opt, Cu .33%**

45.04- 48.15 Talc, sericite, chlorite schist, light greenish grey
very soft, 12 cm quartz at 47.5

45.04- 47.39 **Samp 97-14803-15600 Au .039opt, Cu .34%**

47.39- 48.15 **Samp 97-15600-15806 Au .007opt, Cu .10%**

48.15- 51.34 Serpentinite, dark green and black mottled, massive

51.34- 57.87 Granodiorite, reddish brown, fine to medium grained

57.87- 62.13 Serpentinite, dark green and black mottled, massive

62.13- 63.34 Talc, sericite, chlorite schist, light greenish grey
very soft

62.13- 63.34 **Samp 97-20406-20806 Au .001opt, Cu .06%**

63.34- 63.64 Quartz, white milky, little sulfides

63.34- 63.64 **Samp 97-20806-20906 Au .003opt, Cu .21%**

63.64- 67.87 Serpentinite, dark green and black mottled, massive

67.87- 69.27 Quartz, white massive milky, very little sulfides

67.87- 69.27 **Samp 97-22305-22800 Au .113opt, Cu .01%**

69.27- 70.91 Talc, sericite, chlorite schist, light greenish grey
very soft

69.27- 70.91 **Samp 97-22800-23305 Au .001opt, Cu .03%**

70.91- 75.95 Serpentinite, dark green and black mottled, massive

APPENDIX II- ANALYSES AND ASSAYS

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: SEP 27 1988

DATE REPORT MAILED:

ASSAY CERTIFICATE

- SAMPLE TYPE: Core AU - 10 GM REGULAR ASSAY.

ASSAYER: D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

STRYDER EXPLORATION PROJECT SPOKANE 88 FILE # 88-4822

SAMPLE#	AU oz/t
2-4700-4900	.001
2-4900-5100	.001
2-24500-24608	.005
2-24608-24709	.057
2-27204-27404	.010
2-27404-27703	.001
2-27703-28003	.102
2-28003-28200	.013
2-28810-29103	.072

Certificate of GEOCHEM

Company: MCNEILL INDUSTRIAL
Project: SPOKANE
Attention: A. HEARN

File: 8-1813/P1
Date: OCT 16/88
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB
3 27303-27903	550
3 29600-29803	2000
3 29803-29908	590
3 29908-30700	200
3 30700-31004	125

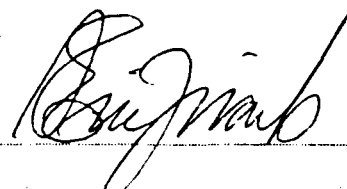
3 31004-31200	34
3 31800-31900	3800
3 31900-32311	2000
3 32311-32603	3100
3 32603-32904	74

5 12000-13302	403
5 17708-18000	1150
5 19510-20006	92
5 20006-21006	80
5 21006-21500	805

5 21500-21600	90
5 21600-21908	860
5 21908-22202	425
5 22202-22702	4000
5 22702-23100	340

5 23100-24700	3470
5 24700-27700	780

Certified by





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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: MCNEILL INDUSTRIAL
Project: SPOKANE
Attention: A. HEARN

File: 8-1813/P1
Date: NOV 4/88
Type: PULP ASSAY

We hereby certify the following results for samples submitted.

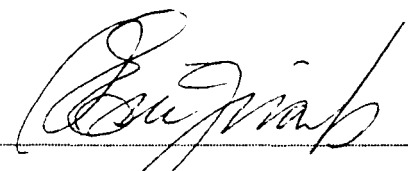
Sample Number	CU %
3 27303-27903	.280
3 29600-29803	.984
3 29803-29908	.502
3 29908-30700	.391
3 30700-31004	.168

3 31004-31200	.110
3 31800-31900	.112
3 31900-32311	.103
3 32311-32603	.978
3 32603-32904	.084

5 2000-13302	.712
5 17708-18000	.748
5 19510-20006	.096
5 20006-21006	.048
5 21006-21500	.604

5 21500-21600	.079
5 21600-21908	.298
5 21908-22202	.089
5 22202-22702	.470
5 22702-23100	.075

5 23100-24700	.980
5 24700-27700	.620

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: MACNEILL INDUSTRIES
Project: SPOKANE
Attention: S. GORDON

File: 8-1931/P1
Date: OCT. 29/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
6-26700-28300	4.58	0.134

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TELEPHONE: (705) 264-9996

Certificate of GEOCHEM

Company: MACNEILL INDUSTRIES
Project: SPOKANE
Attention: S GORDON

File: 8-1931/P1
Date: OCT. 29/88
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB
6-16609-17800	160
6-19504-20700	280
6-20700-20802	36
6-20802-22700	374
6-22700-25300	470

6-25300-25800	138
6-25800-26105	480
6-26105-26700	378
6-26700-28300	4200

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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: MACNEILL INDUSTRIES
Project: SPDKANE
Attention: L. BREWER

File: 8-1931/F1
Date: NOV 4/88
Type: PULP ASSAY

We hereby certify the following results for samples submitted.

Sample Number	CU %
6-16609-17800	.803
6-19504-20700	.710
6-20700-20802	.171
6-20802-22700	.635
6-22700-25300	.212

6-25300-25800	.164
6-25800-26105	.965
6-26105-26700	.447
6-26700-28300	.740

Certified by _____

MIN-EN LABORATORIES LTD.

Certificate of ASSAY

Company: MACNEILL INDUSTRIAL INC.
Project:
Attention: L. BREWER

File: 8-1980/P1
Date: NOV 5/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	CU %
8-4300-4705	7.50	0.219	.021
8-4705-4800	6.40	0.187	.268
8-4800-5000	28.50	0.831	.810
8-5000-5600	1.46	0.043	.010
8-5600-5800	.03	0.001	.009

8-5800-6800	18.25	0.532	.400
8-6800-7200	7.72	0.225	.186
8-7200-7503	22.65	0.661	.925
8-7503-8508	4.43	0.129	.299
8-11308-11802	2.48	0.072	.074

8-1802-12700	2.44	0.071	.054
8-15200-15704	1.25	0.036	.336
10-21108-21300	.15	0.004	.102
10-21300-21808	2.64	0.077	.605
10-21808-22108	.60	0.018	1.130

10-22108-22300	.20	0.006	2.440
10-22300-24700	.62	0.018	.291
10-25206-25300	.18	0.005	.202
10-25300-25606	2.32	0.068	.061
10-25606-26103	11.30	0.330	.980

10-26103-26300	.48	0.014	.276
10-26300-26508	3.73	0.109	.497
10-26508-27904	18.20	0.531	1.930

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33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: STRYDER EXPLORATION
Project: MCNEEL INDUSTRIES
Attention: G. HUIZEN

File: 8-2072/P1
Date: NOV. 18/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON	CU %
7-45808-46400	.15	0.004	.024
8-17800-17900	.19	0.006	.061
8-17900-18000	.17	0.005	.073
8-18000-19000	.05	0.001	.021
8-19000-19700	.24	0.007	.057

8-19700-21100	.01	0.001	.054
8-21100-21700	.02	0.001	.062
8-21700-22400	.80	0.023	.397
8-22400-22600	10.20	0.298	2.780
8-22600-23100	.66	0.019	.244

8-23100-23900	3.92	0.114	1.230
8-23900-24800	2.87	0.084	1.710
8-24800-25500	.18	0.005	.175
8-25500-25705	.21	0.006	.184

Certified by _____

[Signature]
MIN-EN LABORATORIES LTD.

GEOCHEMICAL ANALYSIS CERTIFICATE

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. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: FEB 9 1989 DATE REPORT MAILED: Feb 14, 1989 SIGNED BY: *D. Toyn* D. TOYN, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MCNEILL INDUSTRIAL CORP. File # 89-0290

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
812-13800-14008	1	211	64	100	.4	6	7	354	2.05	29	5	ND	1	268	1	2	2	34	4.85	.033	2	9	.76	15	.10	2	5.36	.27	.05	1	23
812-14009-14500	1	265	3	40	.3	14	10	261	2.16	3	5	ND	1	395	1	2	2	36	4.93	.056	2	21	.62	26	.12	3	5.47	.34	.15	43	58
812-14500-15000	2	384	3	32	.3	11	15	207	2.85	11	5	ND	1	429	1	2	3	30	4.13	.045	2	9	.60	52	.10	2	5.37	.32	.15	76	103

ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED: JAN 24 1989

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED:

Jan. 26. 89

ASSAY CERTIFICATE

- SAMPLE TYPE: Core AU - 10 GM REGULAR ASSAY.

SIGNED BY..... *C. Long* D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

MACNEILL INDUSTRIAL INC. FILE # 89-0159

SAMPLE#	Cu	Ag	Au
	%	OZ/T	OZ/T
91-3200-3410	.20	.03	.028
91-3410-3704	.13	.02	.021
91-3704-4100	.01	.01	.006
91-4100-4404	.03	.02	.030
91-4404-4603	.01	.02	.002
91-4603-5000	.01	.01	.007
92-2400-2600	.01	.03	.001
92-2600-3600	.04	.03	.009

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716

DATE RECEIVED: FEB 15 1989

DATE REPORT MAILED: Feb. 22, 1989

ASSAY CERTIFICATE

- SAMPLE TYPE: Core
AU** AND AG** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY... *D. Toye* D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MCNEILL INDUSTRIAL LTD. FILE # 89-0331

SAMPLE#	Cu %	Ag** OZ/T	Au** OZ/T
85-3408-3508	.04	.01	.001
93-4311-4501	1.79	.53	.756
93-4501-4707	.24	.05	.404
93-4501-5200	.20	.05	.088
93-5200-5700	.12	.06	.510
93-5700-6000	.04	.01	.043
93-6000-7200	.10	.04	.012
94-3904-4500	.13	.03	.220
94-4500-5300	.16	.07	.045
95-2700-3100	.04	.01	.002
95-3100-3408	.01	.01	.005
95-3408-3904	.03	.01	.031
95-4700-4804	.12	.01	.275
811-12700-12804	.10	.01	.187

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: MAR 7 1989

DATE REPORT MAILED: *March 13/89*

GEOCHEMICAL ICP ANALYSIS

.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.
ANALYSIS BY HYDRIDE ICP. Ge PARTIAL LEACHED.

- SAMPLE TYPE: Pulp

SIGNED BY *C. Long* . D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

MCNEILL INDUSTRIAL LTD. FILE # 89-0331R

SAMPLE#	As PPM	Sb PPM	Bi PPM	Ge PPM	Se PPM	Te PPM	
85-3408-3508	10.1	.9	2.5	.8	1.3	1.9	.001
93-4311-4501	5.6	.3	562.8	7.5	.9	14.2	.752
93-4501-4707	1.8	.2	216.3	.3	1.3	3.3	.394
93-4501-5200	1.7	.3	58.7	.2	1.5	2.8	.082
93-5200-5700	55.5	1.8	612.8	.1	1.7	21.4	.510
93-5700-6000	16.8	1.3	136.5	.3	1.6	19.3	.043
93-6000-7200	2.8	.3	82.1	.3	1.1	9.2	.012
94-3904-4500	62.1	2.6	188.4	.1	1.0	8.2	.220
94-4500-5300	20.9	1.6	137.5	.2	1.4	8.6	.095
95-2700-3100	1.0	.4	.1	.4	.7	1.3	.002
95-3100-3408	8.2	.8	4.0	.2	.1	.9	.005
95-3408-3904	24.9	1.0	123.5	.2	1.3	13.7	.031
95-4700-4804	1.7	.2	157.9	.1	1.0	2.0	.025
811-12700-12804	1.1	.2	98.8	.2	1.5	4.8	.187

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: MAR 1 1989

DATE REPORT MAILED: *March 13/89*

GEOCHEMICAL ICP ANALYSIS

.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.
ANALYSIS BY HYDRIDE ICP. Ge PARTIAL LEACHED.

- SAMPLE TYPE: Pulp

SIGNED BY *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

McNEILL INDUSTRIAL LTD FILE # 89-0474R

SAMPLE#	As PPM	Sb PPM	Bi PPM	Ge PPM	Se PPM	Te PPM	
96-23200-24107	6.8	10.4	88.4	.1	1.4	5.0	.016
96-24107-24600	6.4	.6	325.6	.1	2.0	4.2	.069
96-30900-31103	56.4	1.2	816.3	.4	4.8	7.2	.480
96-31103-31606	35.5	.9	89.3	.6	1.3	3.0	.574

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: MAR 1 1989

DATE REPORT MAILED: *March 3/89*

ASSAY CERTIFICATE

- SAMPLE TYPE: Core

SIGNED BY *C. Leung* D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MacNEILL INDUSTRIES FILE # 89-0474

SAMPLE#	Cu %	AU OZ/T
96-22800-22910	.02	.002
96-22910-23200	4.42	.258
96-23200-24107	.11	.016
96-24107-24600	.40	.069
96-24600-24902	.01	.001
96-24902-25200	.01	.002
96-25200-25600	.38	.020
96-27600-27704	.02	.001
96-27704-28809	.01	.001
96-28809-29700	.01	.001
96-29700-29805	.02	.001
96-29805-29905	.01	.001
96-29905-30405	.03	.002
96-30405-30900	.01	.003
96-30900-31103	3.52	.480
96-31103-31606	.44	.074

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: MAR 7 1989

DATE REPORT MAILED: *May 10, 1989*

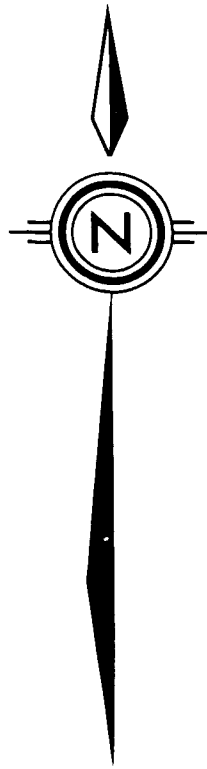
ASSAY CERTIFICATE

- SAMPLE TYPE: Core AU** BY FIRE ASSAY FROM 1/2 A.T.

SIGNED BY... *N. Jones* D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MacNEILL INDUSTRIAL LTD. FILE # 89-0519

SAMPLE#	Cu %	Au** OZ/T
96-25503-26200	.01	.001
96-26200-26604	.19	.019
96-26604-27600	.02	.001
97-2500-2900	.04	.016
97-2900-3208	.01	.003
97-3208-3600	.01	.001
97-4604-4808	.06	.091
97-5900-6009	.01	.001
97-6009-6400	.02	.004
97-6400-6600	.04	.001
97-9005-9500	.03	.001
97-9500-9700	.02	.001
97-9700-9900	.24	.002
97-9900-10006	.07	.001
97-13500-13810	.08	.006
97-13810-14004	.26	.026
97-14004-14206	.08	.001
97-14206-14500	.08	.035
97-14500-14510	2.98	.282
97-14510-14803	.33	.058
97-14803-15600	.34	.039
97-15600-15806	.10	.007
97-20406-20806	.06	.001
97-20806-20906	.21	.003
97-22305-22800	.01	.113
97-22800-23305	.03	.001



CONTOUR LINES SHOWING APPROX. ELEVATION (Metres)

LEGEND

TERTIARY or YOUNGER

- Quartz veins
- REXMONT PORPHYRY (TERTIARY)**
- 4 Dacite
- COAST PLUTONIC INTRUSIONS**
- 5 Granodiorite
- BRIDGE RIVER GROUP (TRIASSIC TO JURASSIC & OLDER)**
- 7 Metagreywacke - Argillite
- SHULAPS ULTRAMAFIC COMPLEX (AGE UNKNOWN)**
- 6 Serpentinite

SYMBOLS

- 025/70 Bedding: strike & dip
- 030/85 Foliation: strike & dip
- Outcrop
- Trench
- Adit
- Contact: defined, inferred
- Drill hole location
- 87-VI-3 Sample location & number
- 0.187/50 Assay results: Au oz/t /sample length in centimetres
- Baseline survey station
- 100 gamma magnetic contour interval (above base of 56,100 gammas)
- Lineations produced from magnetic & EM results suggesting geological structure
- VLF - EM conductor

NOTE: Geology after : L.R.Salkoski B.Sc., 1986 & Geophysics carried out by: Columbia Airborne Geophysical Services (1984) Ltd., 1987



GEOLOGICAL BRANCH ASSESSMENT REPORT

19,041

MACNEILL INDUSTRIAL INC. SPOKANE PROJECT DRILL HOLE PLAN

G.L.VENHUIZEN, B.SC., P.ENG.

DRAWN: G.L.V./dw	SCALE: 1:1000	FIG.
DATE: MAR., 1989	N.T.S. 92J/16W	

