

REPORT
ON THE
SECOND DIAMOND DRILLING PROGRAMME
ON THE
MARY REYNOLDS PROPERTY
NICOLA MINING DIVISION
BRITISH COLUMBIA

- Prepared for -

ANGLO AMERICAN RESOURCES INC.
530 - 800 West Pender Street
Vancouver, B.C. V6C 2V6

Covering: JL-1, JL-2, KL-1, Robert Dunsmuir, Mary Reynolds
and Gold Cup

Work Performed: January 5, 1989 - February 27, 1989

Location: (1) 50°20'N, 120°20'W
(2) 38 km south of Kamloops
(3) NTS 92I/8W

- Prepared by -

DAWSON GEOLOGICAL CONSULTANTS LTD.
203 - 455 Granville Street
Vancouver, B.C. V6C 1T1

James M. Dawson, P.Eng.

May 2, 1989

18714

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 90.03.13

ASSESSMENT REPORT 18714

MINING DIVISION: Nicola

PROPERTY: Mary Reynolds
LOCATION: LAT 50 20 00 LONG 120 20 00
UTM 10 5578875 689781
NTS 092I08W

CAMP: 013 Stump Lake Area

CLAIM(S): JL 1, KL 1, Mary Reynolds

OPERATOR(S): Anglo American Res.

AUTHOR(S): Dawson, J.M.

REPORT YEAR: 1989, 63 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver

KEYWORDS: Triassic, Nicola Group, Augite Porphyry, Tuff, Volcaniclastics, Pyrite
Galena, Sphalerite, Tetrahedrite

WORK

DONE: Drilling, Geochemical
DIAD 1000.2 m 3 hole(s);NQ
SAMP 74 sample(s) ;ME

RELATED

REPORTS: 17163, 18532

INFILE: 092ISE115

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,714

REPORT ON MARY REYNOLDS PROPERTY
Nicola Mining Division, B.C.

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ANGLO AMERICAN RESOURCES INC.

MARY REYNOLDS PROPERTY
NICOLA M.D.-B.C. NTS:921/8

LOCATION MAP

Technical Work By:
DAWSON GEOL. CONS. LTD.

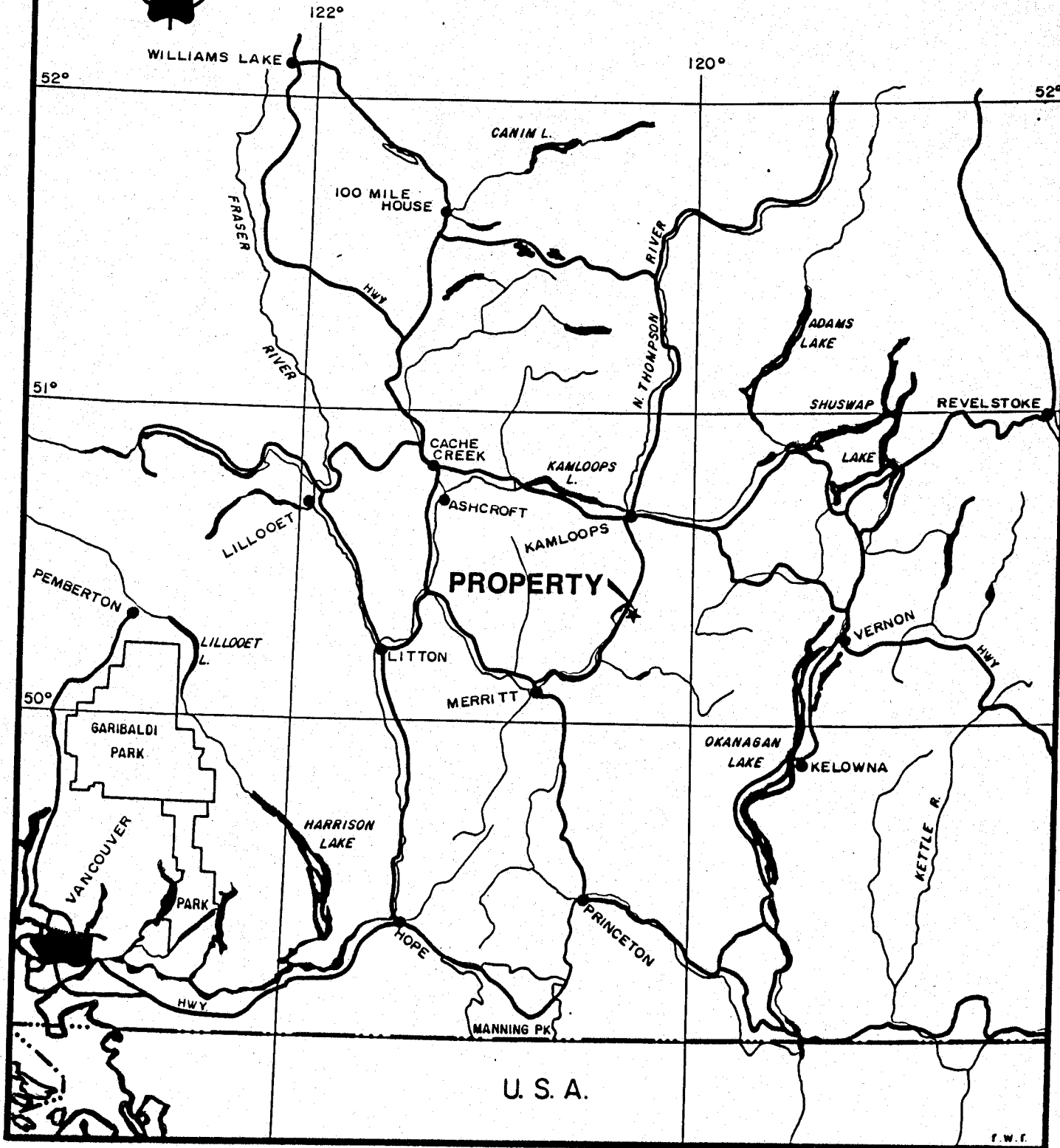
Scale: 1:2,000,000

DATE: MAY, 1989

BY: J.D./rwr

FIG. N^o. 393-1A

20 0 20 40 60
KILOMETRES



U. S. A.

f.w.f.

INTRODUCTION

This report describes the results of a diamond drilling programme carried out on the Mary Reynolds property during January and February, 1989.

A total of 3 core holes totalling approximately 1000 metres was completed. The core was logged and appropriate sections were split and assayed.

The data is presented on drill logs accompanying this report.

SUMMARY AND CONCLUSIONS

- 1) The Mary Reynolds property consists of a contiguous block of six claims aggregating approximately 850 hectares located in moderate terrain in south-central British Columbia. The property is easily accessible by road.

- 2) The property has been worked on intermittently since the late 1800's. Work was concentrated near the centre of the current claim block where shallow shafts and tunnels aggregating several hundred feet of underground development, were driven during several periods of activity up to 1934. The property was essentially dormant until 1972 when it was acquired by Pine Valley Explorers Ltd. Over the next eight years, this company carried out geochemical and geophysical surveys as well as minor underground development and metallurgical testing. At least 6 shallow diamond drill holes were bored during this period. In 1984 - 86, control of the property passed to Mr. L. Loranger who optioned the property to Rochester Minerals in October 1986. In 1987, Noranda Exploration Company optioned the property from Rochester and carried out an extensive programme of geological mapping, geochemical soil sampling and geophysical surveys. Noranda dropped its option in 1988 and Rochester re-optioned the property to Diplomat Resources Inc. In late 1988, Diplomat drilled 4 core holes totalling

600 metres and relinquished its option shortly thereafter. The property was re-optioned to Anglo American Resources Inc. in January, 1989.

- 3) The property is underlain by Nicola Group volcanic rocks which are traversed by a number of north-northeasterly trending shears or fracture zones. These shear zones are the loci for zones of weak to strong carbonatization and accompanying narrow zones of epithermal quartz and quartz carbonate veining. Sporadic sulphide mineralization accompanies this veining with local surface areas of silver mineralization up to 15-20 oz/ton. One showing in the northern part of the property returned values up to 0.29 oz gold per ton from an old dump.

- 4) No significant exploration work was carried out prior to Noranda's 1987 programme. The narrowness of the veins and their discontinuous and widely spaced occurrence discouraged any serious work. However, the recognition that this is a relatively high level epithermal precious metal system and the possibility of encountering better grades and continuity at depth encouraged Diplomat Resources Inc. to test several promising targets developed by the Noranda work. Four diamond drill holes were bored and a number of interesting zones of epithermal mineralization were encountered. Gold grades in the 0.5 to 2 gm/tonne range were intersected in

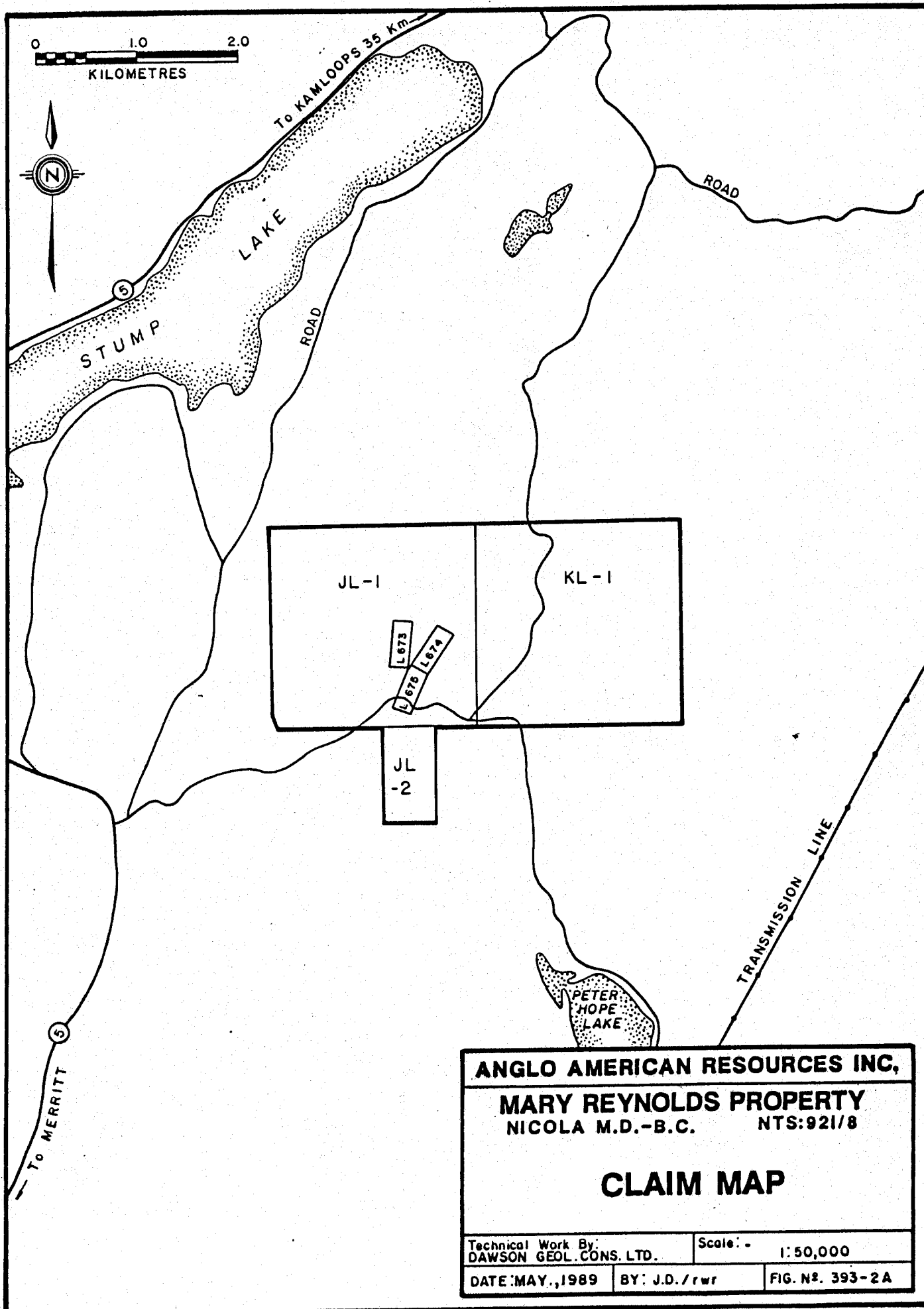
several zones, however, silver values were consistently much lower than encountered at surface - generally being less than 30 gm/tonne. The Anglo American programme expanded upon the Diplomat work and returned values of roughly the same order of magnitude.

PROPERTY

The property consists of a contiguous block of six claims, consisting of three MGS-located claims and three reverted crown grants. The located claims totally overlie the reverted crown granted claims. Pertinent claim data is as follows:

<u>Claim Name</u>	<u>Tag Number</u>	<u>Lot Number</u>	<u>Record Number</u>	<u>Expiry Date</u>
JL 1	107290		1662	December 30, 1990
JL 2	107291		1663	December 30, 1990
KL 1	79204		1483	March 16, 1990
Robert Dunsmuir		673	1669	April 7, 1991
Mary Reynolds		674	1670	April 7, 1990
Gold Cup		675	1670	April 7, 1990

The disposition of these claims is shown on Figure 393-2



LOCATION AND ACCESS

The property is located in southern British Columbia, about 38 kilometres south of the city of Kamloops and approximately three kilometres southeast of Stump Lake. The approximate geographic centre of the claims is at 50°20'North and 120°20'West.

The claims are located about four kilometres east of Provincial Highway No. 5 (Kamloops-Merritt) and the Peter Hope Lake access road leads easterly through the property's southern edge. Several unimproved dirt roads provide facile access to most areas of the claim block.

PHYSIOGRAPHY AND VEGETATION

The property covers an area of rolling, gently to moderately west-sloping topography, which has a pronounced north-northeast grain due to the alignment of faults and/or shear zones in this direction. Relief on the ground is in the order of 1000 feet. Elevations vary from just under 3000 feet at the western property boundary to over 4000 feet on two knolls near the eastern edge of the claims.

The claim area is covered with a dense to open growth of fir and jackpine. Selective logging has been carried out over the years in some areas. Small areas of grass land occur sporadically, mostly due to the former logging activity. Outcrop is not plentiful and is found mostly on the steeper slopes or in areas of old trenching.

HISTORY

The property is first referenced in the Annual Report of the B.C. Ministry of Mines for 1887, and was examined by G. M. Dawson in 1894. In 1889, there were reportedly three shafts on the same vein (100 feet, 75 feet and 300 feet deep, respectively) and a small quantity of ore was shipped to San Francisco.

The area was dormant until 1918-1919, when considerable development work was done. At least 250 feet of underground drifting and raising was completed and a new "vein" was discovered some 150 feet west of the original vein. A total of 130 tons of selected ore was shipped to the smelter. This material reportedly assayed 51.2 ounces silver, 0.143 ounces gold, 1.4% lead, and 2.4% zinc per ton.

During the period 1928-1934, the property was controlled by the Primary Ore Mining Company Ltd.. During this period, considerable surface prospecting and test pitting was done, as well as about 300 feet of tunnelling and shaft sinking. Several shallow diamond drill holes were bored north and south of the main workings, and in one case, delineated at least three parallel quartz veins.

There is no reported activity at the property until 1972, when it was controlled by Pine Valley Explorers Ltd.. Over the

following six years, various geochemical and geophysical surveys were performed as well as minor underground rehabilitation. A primitive mill was constructed; however, the company ran out of funds in about 1980.

The property was dormant until 1984 when portions of it were acquired by Mr. L. Loranger of Kamloops. Mr. Loranger carried out detailed prospecting as well as limited VLF-EM and geochemical surveys and located a new showing, some 3000 feet north of the main area of old workings. The final claims in the package were acquired by Loranger in April 1986, and the entire property was optioned to Rochester Minerals Inc. in October 1986.

In April 1987, Rochester optioned the property to Noranda Exploration Company Ltd.. In 1987, Noranda carried out a detailed exploration programme consisting of geological mapping, geochemical soil sampling and magnetometer and VLF-EM surveys. Noranda dropped its option in late 1987.

In mid-1988, Rochester re-optioned the property to Diplomat Resources Inc., who carried out a drilling programme consisting of 601.5 metres of NQ sized core drilling in four holes (see Figure 393-4).

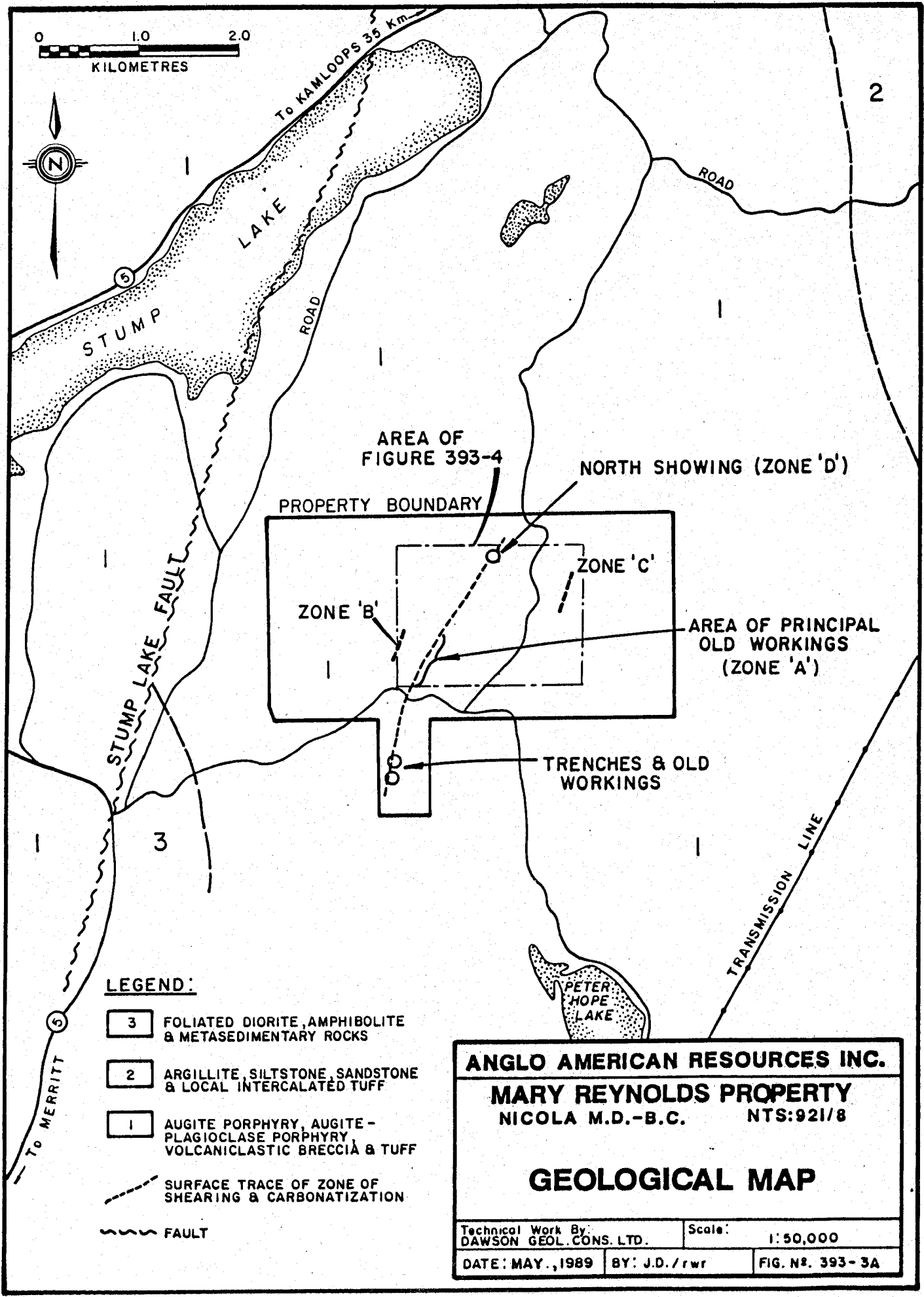
GEOLOGY AND MINERALIZATION

The property is underlain by Upper Triassic basic volcanic rocks of the Nicola Group. These rocks are traversed by a number of north-northeasterly trending topographic linears which frequently coincide with discontinuous and en echelon zones of carbonatization, silicification and accompanying base and precious metal mineralization.

The Nicola rocks consist primarily of massive, green to grey-green, augite porphyry and augite-plagioclase porphyry flows. Most varieties of this rock type are coarse grained and fairly fresh. Minor areas of weakly foliated material with weak propylitic alteration are locally present. Volcaniclastic breccias and tuffs as well as minor interbedded argillite are occasionally seen in this succession and in fact, some zones of fragmental rocks were seen in the drill core.

Mineralization is related to a number of north-northeast trending, weak to moderately strong zones of carbonate alteration. The largest of these zones which may have bifurcations or isolated, sub-parallel lenses, appears to range up to 40 metres wide and can be traced intermittently for more than 2000 metres along strike (see Figure 393-3).

On surface, this zone consists of pale green to buff and



LEGEND:

- 3 FOLIATED DIORITE, AMPHIBOLITE & METASEDIMENTARY ROCKS
- 2 ARGILLITE, SILTSTONE, SANDSTONE & LOCAL INTERCALATED TUFF
- 1 AUGITE PORPHYRY, AUGITE - PLAGIOCLASE PORPHYRY, VOLCANICLASTIC BRECCIA & TUFF
- - - SURFACE TRACE OF ZONE OF SHEARING & CARBONATIZATION
- ~~~~~ FAULT

ANGLO AMERICAN RESOURCES INC.		
MARY REYNOLDS PROPERTY		
NICOLA M.D.-B.C.		NTS:921/8
GEOLOGICAL MAP		
Technical Work By: DAWSON GEOL. CONS. LTD.		Scale: 1:50,000
DATE: MAY., 1989	BY: J.D./rwr	FIG. N ^o . 393-3A

orange-brown, variably altered volcanics. Locally there are zones of intensely altered red-brown, pervasively carbonated rock. Within such highly altered zones there are frequently narrow veins of epithermal quartz and quartz-carbonate. Locally these are reported to contain high grade silver values. Some specimens running up to 150 ounces silver per ton were reported by early prospectors.

In the area of the main workings, most of the attention was focused on one quartz vein which varied from 30 centimetres to 1.2 metres wide and was traced intermittently for more than 250 metres along strike. Within this zone, there are at least two parallel quartz veins and a number of narrow stringers. Mineralization consists of patchy bunches of pyrite, galena and sphalerite with lesser tetrahedrite and minor chalcopyrite. A grab sample of mineralized material taken by the writer from the main dump assayed 0.057 oz gold and 16.48 oz silver per ton. Many of the trenches and pits around the main underground workings are now sloughed in, so overall tenor of the carbonate zone or of the parallel quartz veins cannot be estimated on surface. This zone is well delineated by anomalous soil sample values which range up to 485PPB gold and 178PPM silver.

Approximately 900 metres north of the area of the main old workings, a partly sloughed pit or shallow shaft exposes a friable limonitic zone about 1.2 to 1.5 metres wide. This

showing (North Showing) appears to be on strike with the zone exposed at the area of the main workings. According to Shevchenko (1988), this showing may be located at the intersection of north-northeast and north-northwest trending shear structures. The pit is semi-concordant with a possible 500 metre long north-northeast trending VLF-EM conductor axis. A grab sample taken by the writer from this pit assayed 0.296 oz gold and 0.10 oz silver per ton. A soil sample of material excavated from this pit taken by Noranda personnel returned 15.9 gm/tonne gold and 3.4 gm/tonne silver (0.46 oz gold and 0.10 oz silver per ton).

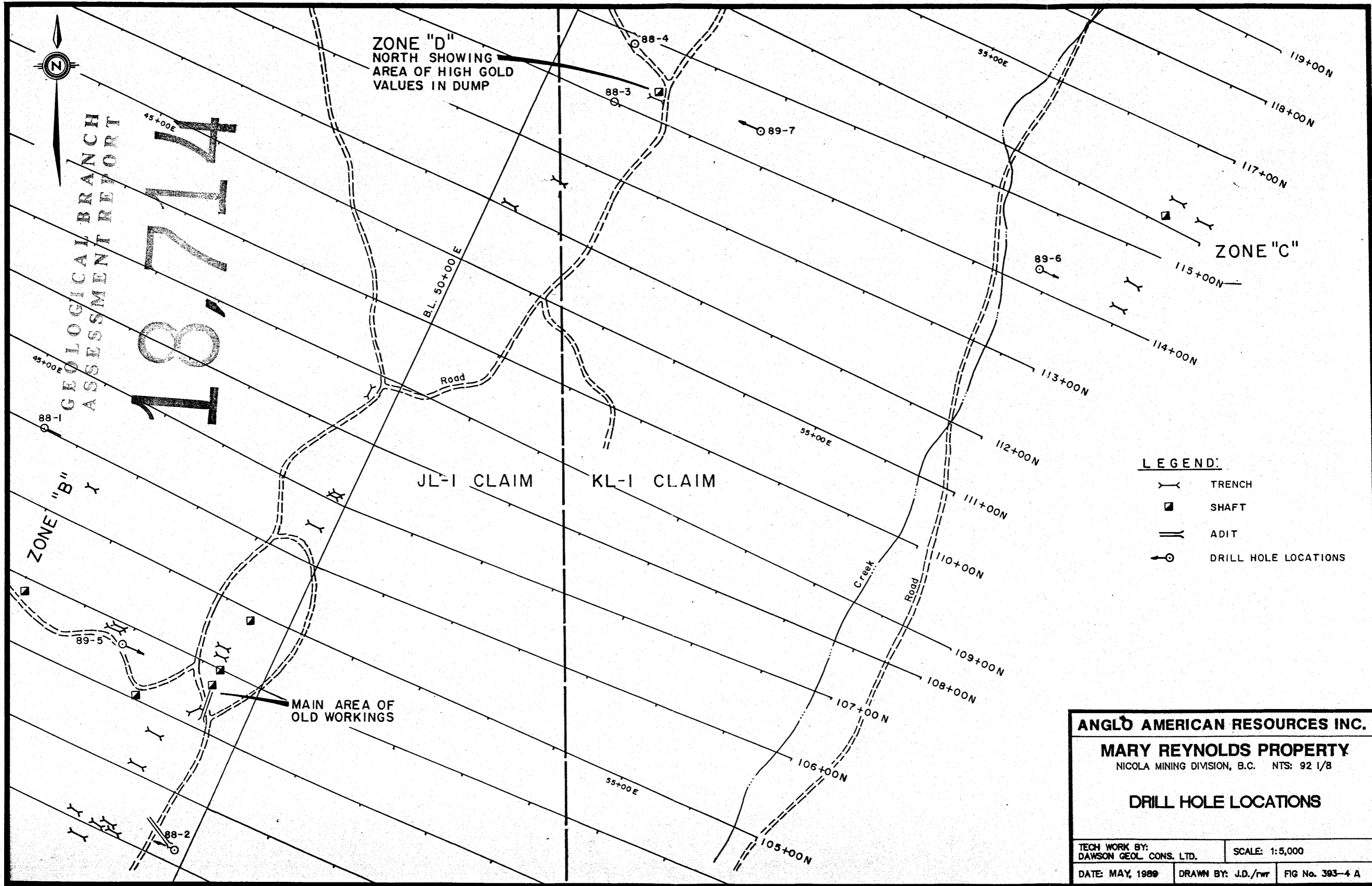
South of the area of the main old workings (see Figure 393-3), the trace of the alteration-shear zone appears to bend to a more north-south orientation. It is totally overburden covered for approximately 450 metres south of the main workings since this area is traversed by a westerly-flowing creek.

Approximately 750 to 900 metres south of the main workings area, the zone is exposed by at least three old bulldozer trenches and an old inclined shaft. Only minor areas of bedrock can be seen because of extensive sloughing of overburden. The setting, however, appears to be similar with one or more veins of quartz within a broad zone of weakly to moderately, carbonate-altered greenstone. Two grab samples of dump material carrying pyrite and galena in quartz assayed 0.021 oz gold and 0.87 oz

silver per ton and 0.068 oz gold and 4.87 oz silver per ton respectively.

The detailed property work carried out by Noranda delineated a number of other areas of weak to moderate alteration and/or mineralization. Two of these were examined in more detail: Zone 'B' is located about 300 metres WNW and parallel to the main zone (Zone 'A'), (see Figure 393-3). It is an area of discontinuous, north trending shears. These shears range from 1 to 3 metres in width, are clay altered and may contain chalcedonic quartz veining. Sulphides associated with this veining are comprised of very fine grained pyrite and minor galena. The central portion of this zone is characterized by a gold, arsenic, silver anomaly and a coincident VLF-EM conductor axis.

Zone 'C' is located about 750 metres ESE of the "North Showing" (Zone 'D') and is roughly parallel to it. At Zone 'C' discontinuous north-northeasterly trending shears have been exposed in a shallow shaft and trenches. The shears dip moderately to the ESE and are 1 to 2 metres in width. They consist of clay-altered lithic fragmentals cut by quartz veins carrying minor very fine grained pyrite. Values obtained this mineralized zone (grab samples) varied from 0.017 to 0.11 oz gold/ton and 0.02 to 0.3 oz silver/ton. This area has associated gold, silver, arsenic, lead and zinc soil anomalies and a possible VLF-EM conductor axis flanking the western edge.



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DISCUSSION OF DRILLING RESULTS

An earlier drilling programme in October and November 1988, tested zones A, B and D with four core holes. Low grade gold-silver mineralization was encountered over widths of as much as 7.5 metres (see Dawson, 1988). The current programme was designed to test the mineralization at least 100 metres deeper than the previous drilling.

Hole MR-89-5 was drilled to test Zone 'B' immediately below the main area of old workings (see Figure 393-4). The hole cut a large number of narrow mineralized zones and at least two which were 7 to 10 metres wide (see drill log of Hole 89-5 in Appendix C). The best single intersection returned 1.5 gm/tonne gold and 290 gm/tonne silver over 0.78 metres.

Hole MR-89-6 was drilled to test Zone 'D' below Holes 88-3 and 88-4 (see Figure 393-4). The results of this hole were on the whole disappointing as considerably less mineralization was encountered than in the shallower holes. The best single intersection returned 2.19 gm/tonne gold and 4.6 gm/tonne silver over 0.9 metres (see drill log in Appendix C).

Hole MR-89-7 was drilled to test Zone 'C', an area not addressed by the earlier drill programme. The results of this hole were extremely discouraging with the best intersection

returning 245 PPB gold and 1.2 PPM silver (see drill log in Appendix C).

APPENDIX "A"

PERSONNEL

PERSONNEL

J. M. Dawson, P.Eng.
Geologist

10 days

January 19 (1/2 day)
January 22
February 2 (1/2 day)
February 5 (1/2 day)
February 8
February 9
February 10
February 14 (1/2 day)
February 16
February 17
February 21 (1/2 day)
February 23
February 27 (1/2 day)

L. Loranger
Prospector

29 days

January 25 - 31 incl.
February 1 - 22 incl.

APPENDIX "B"

STATEMENT OF COSTS

STATEMENT OF COSTS

Labour

J. M. Dawson, P. Eng. 10 days @ \$400/day	\$ 4,000.00	
L. Loranger 29 days @ \$200/day	<u>5,800.00</u>	\$ 9,800.00

Expenses and Disbursements

a) Contract Diamond Drilling	86,472.57	
b) Assays and Analyses	2,368.32	
c) Truck Rental & Travel	4,122.65	
d) Motel and Meals	374.00	
e) Miscellaneous supplies and rentals	374.29	
f) Telephone, xerox, blueprints, drafting, courier, secretarial, binding, etc.	<u>504.25</u>	<u>\$ 94,216.08</u>
Total project cost		\$104,016.08

APPENDIX "C"

DRILL LOGS

DIAMOND DRILL RECORD

PROPERTY: Mary Reynolds

HOLE NO. 89-5

Page 1 of 10

Dip and Azimuth Test		
Corrected		
Footage	Angle	Azimuth

Core Size NQ
 Angle of Hole -45
 Claim
 Grid Loc
 Bearing 115° T

Total Depth 341 M.
 % Recovery
 Elev. Collar
 Latitude 103+75N
 Departure 48+00E

Logged by JMD
 Date Started 28/1/89
 Date Finished 9/2/89
 Core Stored At Property

DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
		Hole cased to 1.6 M				
1.6 - 7.0		Typical grey - green Nicola augite porphyry; minor limonite and hematite staining along fractures; @ 4.3 M a 2 cm barren quartz vein @ 75° to core axis				
7.0 - 10.35		Dark brown to buff, highly altered (clay) friable greenstone; no significant silicification	102501 102502 102503	7-8 8-9 9 - 10.35	5 1 1	0.1 0.1 0.1
10.35 - 11.1		Pale greenish weakly altered and broken greenstone				
11.1 - 15.25		Very friable, highly limonitic, clay altered and carbonated greenstone; brecciated and quartz veined in part 10% ± silica	102504 102505 102506 102507	11.1 - 12.0 12-13 13-14 14 - 15.25	20 3 36 66	0.3 0.2 0.4 0.6
15.25- 17.15		Relatively fresh grey-green Nicola augite porphyry				

PROPERTY:

Mary Reynolds

HOLE NO.

89-5

Page 2 of 10

DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
17.15 - 17.75		Highly limonitic, friable, gouge; no quartz				
17.75 - 29.6		Essentially similar grey-green Nicola greenstone; minor narrow (<1 cm) quartz veins - barren	102508	18.15- 19.0	6	0.3
29.6 - 30.3		Friable, moderately altered greenstone				
30.3 - 31.15		Variably friable and clay altered greenstone; hematite staining common; minor quartz veining	102509	30.3 31.15	1	0.1
31.15 - 44.15		Fairly fresh green-grey augite porphyry; minor narrow quartz veinlets				
44.15 - 44.45		Sheared, foliated greenstone - 20% conformable quartz stringers; minor hematite staining; trace fine grained pyrite				
44.45 - 50.30		Fairly fresh to weakly chloritic augite porphyry; minor quartz stringers @ 5 - 10° to core axis				
50.30 - 50.75		Zone of typical greenstone cut by barren quartz stockwork				
50.75 - 53.3		Relatively fresh greenstone				
53.3 - 53.5		Heavy grey white quartz veining and stockwork; minor finely disseminated pyrite; 2 - 3% est.				

PROPERTY: Mary ReynoldsHOLE NO. 89-5Page 3 of 10

DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
53.5 - 53.67		Relatively fresh greenstone				
53.67 - 54.70		Greenstone with scattered quartz veining running very nearly down core axis				
54.70 - 55.8		Relatively fresh augite porphyry				
55.8 - 56.05		Zone of heavy silicification, brecciation of quartz; minor fine grained pyrite clots; zone at 45° to core axis				
56.05 - 59.35		Dark green-grey fairly fresh greenstone				
59.35 - 59.52		Zone of heavy, grey quartz stockwork; minor fine grained disseminated pyrite				
59.52 - 61.45		Relatively fresh greenstone				
61.45 - 61.80		Highly friable, sheared greenstone; minor quartz fragments (brecciated)				
61.80 - 72.20		Relatively fresh greenstone; minor narrow quartz veining				
72.20 - 75.15		Pale green to buff weakly to strongly silicified greenstone; frequent quartz stringers; blebs and stringers of very fine grained pyrite common; quartz veins are finely banded and vuggy	102510 102511 102512 102513	72.2- 73.0 73-74 74-75 75-76	10 44 4 5	1.3 0.6 0.1 0.2

PROPERTY:

Mary Reynolds

HOLE NO.

89-5

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
75.15 - 76.05		Weakly altered greenstone with many fine hairline fractures with pyrite; minor quartz veining				
76.05 - 78.90		Dark greenish, weakly chloritized Nicola greenstone with many Limonite stained micro fractures; minor quartz veining				
78.90 - 87.60		Heavily quartz veined and extensively silicified, bleached greenstone; locally areas of 10 - 15% pyrite; quartz veins are vuggy, brecciated; some cockade textures	102514	78.9 - 80	88	3.7
			102515	80-81	220	7.2
			102516	81-82	16	0.2
			102517	82-83	15	0.2
			102518	83-84	76	0.7
			102519	84-85	240	4.8
			102520	85-86	148	2.2
87.60 - 92.20		Pale green; weakly silicified Nicola greenstock; extensive microfractures filled with hematite, scattered quartz veining	102521	86-87	200	3.6
			102522	87-88	23	0.3
			102523	88-89	210	0.4
			102524	89-90	11	0.1
			102525	90-91	1	0.2
92.20 - 93.35		Bleached and silicified, pale green to buff greenstone - 5% pyrite; 10 - 20% quartz stringers	102526	91-92	34	0.4
			102527	92-93	310	1.7
93.35 - 93.98		Dark green-grey, fairly fresh greenstone				
93.98 - 94.37		Bleached, silicified greenstone; frequent fine grained disseminated pyrite; narrow vuggy quartz stringers at 45° to core axis				

PROPERTY:

Mary Reynolds

HOLE NO.

89-5

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
94.37 - 107.80		Dark green to grey green Nicola basalt with frequent stringers and fracture coatings of hematite; minor quartz stringers				
107.80 - 108.13		Pale green to buff silicified greenstone; minor banded quartz veins; minor blebs of pyrite				
108.13 - 111.60		Dark green, partly autobrecciated greenstone; frequent hematite stringers; minor quartz veining				
111.60 - 112.90		Pale buff to greenish, partly bleached greenstone; minor pyrite; minor quartz stringers				
112.90 - 128.85		Fairly uniform, medium to dark greenish, coarse augite porphyry				
128.85 - 133.55		Greenish, coarse augite porphyry as before; weakly clay altered; frequent broken core and friable gouge zones	102528	132.0- 133.55	85	0.3
133.55 - 137.75		Pale grey to buff, strongly bleached, silicified and brecciated in part minor fine grained disseminated pyrite				
137.75 - 139.15		Dark green, fine grained equigranular dike rock?				
139.15 - 139.75		Pale green to buff, silicified dike rock; minor f.g. blebs of pyrite; minor vuggy quartz stringers				

PROPERTY:

Mary Reynolds

HOLE NO.

89-5

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH (M.)	AU (PPB)	AG (PPM)
139.75 - 140.65		Primarily dark green dike rock - one 8 cm wide bleached, silicified zone near end of section				
140.65 - 141.35		Medium to pale green grey, typical augite porphyry				
141.35 - 146.45		Medium to pale green, equigranular but faintly porphyritic dike rock or another flow				
146.45 - 165.57		Dark grey, relatively fresh augite porphyry				
165.57 - 166.35		Heavily silicified greenstone; 15 - 20% pyrite locally; minor bands of steel galena; trace chalcopyrite	102538	165.57- 166.35	1520	290.2
166.35 - 167.30		Fairly fresh greenstone				
167.30 - 167.50		Silicified zone; heavily banded quartz and agate; minor disseminated pyrite				
167.50 - 169.06		Dark greenish, porphyritic greenstone				
169.06 - 169.39		Zone of bleached and silicified greenstone; scattered clots of fine grained pyrite				
169.39 - 176.65		Dark greenish, porphyritic greenstone				

PROPERTY: Mary ReynoldsHOLE NO. 89-5Page 7 of 10

DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPH)
176.65 - 177.4		Buff to pale grey bleached and silicified greenstone; minor stringers and blebs of fine grained pyrite	102536	176.65- 177.40	210	3.9
177.4 - 180.2		Pale greenish weakly altered greenstone	102537	180- 181	1180	7.0
			102532	181- 182	280	4.5
180.2 - 187.6		Pale grey to buff and white silicified quartz veined and bleached zone; scattered fine grained pyrite common - locally to 25%; local brecciation of quartz	102533	182- 183	650	11.2
			102534	183- 184	500	7.5
			102535	184- 185	880	12.8
			102530	185- 186	1040	29.8
			102531	186- 187.6	540	19.8
187.6 - 202.7		Relatively fresh, porphyritic greenstone				
202.7 - 203.0		Pale green to white silicified greenstone; scattered blebs of fine grained pyrite				
203.0 - 203.75		Dark green augite porphyry				
203.75 - 207.15		Pale greenish to buff, bleached and silicified greenstone; scattered vuggy quartz veins; scattered blebs and stringers of fine grained pyrite	102529	203.75 -205.0	460	18.3
			102543	205- 206	1230	31.0
			102544	206-207	61	3.2

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
207.15 - 218.95		Green-grey augite porphyry				
218.95 - 219.95		Grey-white, silicified; locally heavy disseminated pyrite -10%	102542	218.95- 219.95	1610	34.9
219.95 - 226.70		Relatively fresh augite porphyry				
226.70 - 227.95		Pale grey to buff, bleached and silicified greenstone; scattered quartz veins; scattered blebs of disseminated pyrite	102541	226.7- 227.95	1320	17.9
227.95 - 232.4		Essentially grey-green augite porphyry				
232.4 - 232.7		Narrow zone of silicified pale green grey greenstone				
232.7 - 237.5		Dark green-grey augite porphyry				
237.5 - 238.5		Buff-white to pale grey, silicified volcanics, scattered, fine grained pyrite	102540	237.5- 238.5	310	12.2
238.5 - 239.4		Dark green-grey, augite porphyry				
239.4 - 239.85		Heavily silicified zone; vuggy quartz veins; minor disseminated pyrite				

PROPERTY:

Mary Reynolds

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
239.85 - 263.25		Grey green, augite porphyry				
263.25 - 264.0		Pale green to buff-grey, bleached and silicified augite porphyry; minor quartz stringers				
264.0 - 266.8		Grey-green, weakly altered, (kaolinized) volcanics				
266.8 - 268.5		Pale grey to green-grey, weakly silicified volcanics; minor scattered blebs of fine grained pyrite	102539	266.8- 268.5	435	418.6
268.5 - 293.1		Fairly fresh grey-green, augite porphyry				
293.1 - 293.9		Stockwork of quartz stringers in fairly fresh greenstone; minor fine grained, disseminated pyrite				
293.9 - 299.2		Fresh, grey-green, augite porphyry				
299.2 - 299.85		White to pale-grey, silicified greenstone; minor quartz veining, minor pyrite				
299.85 - 317.15		Relatively fresh, coarse, augite porphyry				
317.15 - 317.75		Pale grey, silicified greenstone	102547	317.15- 317.75	350	12.0
317.75 - 321.37		Green-grey augite porphyry				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
321.37 - 323.05		Pale grey to buff, bleached and silicified greenstone; minor brecciation; minor fine-grained pyrite	102546	321.37- 322.05	245	24.5
322.05 - 331.0		Fresh, coarse, augite porphyry				
331.0 - 331.73		Buff to grey, bleached and silicified volcanics; scattered fine grained pyrite	102545	331.0- 331.73	1290	112.8
331.73 -		Grey-green, fairly fresh, augite porphyry				
		End of Hole				

DIAMOND DRILL RECORD

PROPERTY: MARY REYNOLDS HOLE NO. 89-6 Page 1 of 7

Dip and Azimuth Test		
	Corrected	
Footage	Angle	Azimuth

Core Size NQ
 Angle of Hole -45°
 Claim
 Grid Loc
 Bearing 295°T

Total Depth 356.2 M
 % Recovery
 Elev. Collar
 Latitude 114+53N
 Departure 53+02E

Logged by JMD
 Date Started Feb. 10/89
 Date Finished Feb. 16/89
 Core Stored At Property

DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
11 - 20.4		Hole cased to 11 metres Dark green, weakly chloritic andesitic or basaltic agglomerate; fragments to 6 cm across; usually of coarse, augite porphyry; minor local quartz veining; last one metre section is highly fractured and gougy in part.				
20.4 - 22.55		Pale green to buff, highly sheared greenstone; some quartz veining at 5-10° to core axis.	66035	20.4- 22.55	6	0.2
22.55 - 28.45		Dark greenish-black agglomerate or autobrecciated basalt - fragments are coarsely porphyritic.				
28.45 - 30.9		Pale to dark green, friable greenstone - cut by several, narrow (barren) quartz veins.	66038	28.45- 30.9	13	0.1
30.9 - 54.95		Agglomerate of coarse, augite porphyry; thin silicified zones between 38.85 to 39.15 and 34.05 to 34.6. Narrow quartz veins (banded at 50° to core axis; trace pyrite; minor epidote.				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
54.95 - 58.6		Medium to dark green, finely porphyritic, weakly chloritized andesite dike - minor narrow (4-6 cm) quartz veins.				
58.6 - 61.25		Mixed fine to coarsely porphyritic greenstone.				
61.25 - 62.4		Pale buff, bleached and weakly silicified, friable greenstone.				
62.4 - 70.0		Coarsely porphyritic greenstone.				
70.0 - 74.18		Finely porphyritic, weakly magnetic, fine grained, dark purplish grey, basalt dike.				
74.18 - 87.6		Coarsely porphyritic greenstone, (augite porphyry) - fragmental in part.				
87.6 - 88.6		Pale green grey, silicified volcanics with two 20 cm wide quartz veins; minor scattered pyrite.	66037	87.6- 88.6	240	1.4
88.6 - 94.25		Dark green, weakly chloritic agglomerate or autobreccia of coarse, augite porphyry.				
94.25 - 94.80		Pale green, silicified volcanics; local narrow quartz veins with 10 - 15% pyrite	66029	94.25- 94.80-	90	0.8
94.80 - 97.10		Similar to last section.				

PROPERTY:

MARY REYNOLDS

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
97.10 - 97.65		Strongly silicified, pale grey volcanic with local narrow quartz veins with 10-15% pyrite.	66040	97.10- 97.65	1320	5.3
97.65 - 106.0		Coarsely porphyritic agglomerate.				
106.0 - 106.33		Pale buff to grey, silicified volcanics; minor pyrite.				
106.33 - 108.1		Dark green agglomerate as before.				
108.1 - 108.45		Pale greenish, silicified volcanics, minor quartz veining.				
108.45 - 109.50		Dark green agglomerate.				
109.50 - 112.0		Pale green to buff volcanics (altered) cut by a number of narrow quartz stringers; minor pyrite.	66033 66041	109.5- 111.0 111.0- 112.0	70 81	0.3 0.5
112.0 - 120.0		Sheared, weakly chloritic, coarse augite porphyry.				
120.0 - 120.15		Silicified zone; minor pyrite.				
120.15 - 127.15		Coarse, augite porphyry flows.				
127.15 - 129.85		Medium to fine grained, greenish andesite dike or flow.				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH (M.)	AU (PPB)	AG (PPM)
129.85 - 137.15		Very coarse, augite porphyry flows.				
137.15 - 137.65		Heavily silicified zone; scattered pyrite - locally to 10%.	66042	137.15 137.65	1730	4.1
137.65 - 141.95		Mostly friable and fractured, chloritized volcanics; several very narrow zones of quartz veining (10-15 cm).				
141.95 - 142.2		Silicified zone, trace pyrite.				
142.2 - 146.6		Weakly chloritic greenstone; two 10 cm wide silicified zones.				
146.6 - 148.5		Heavily silicified zone; some zones of quartz breccia; bleached and pyritic greenstone in quartzose zones; minor pyrite, sphalerite; trace of tetrahedrite (?).	66036 66031	146.6- 147.5 147.5- 148.5	2190 550	4.6 2.7
148.5 - 150.25		Coarse, augite porphyry.				
150.25 - 150.8		Heavily silicified zone; minor pyrite.	66032	150.25- 150.8	460	2.1
150.8 - 188.85		Relatively fresh, coarse augite porphyry; minor narrow quartz veins.				
188.85 - 197.05		Interlayered, coarse waterlain tuff and augite porphyry flows or brecciated flows.				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
197.05 - 211.85		Primarily fresh, coarse augite porphyry.				
211.85 - 216.10		Mixed layers of coarse, volcanoclastic sediments or waterlain tuff.				
216.10 - 221.10		Dark green-grey, fairly fresh, coarse augite porphyry.				
221.10 - 225.0		Dark, purplish-grey, finely porphyritic basalt dike - weakly magnetic.				
225.0 - 230.3		Weakly chloritized, coarse augite porphyry.				
230.3 - 231.36		Dark green, fine to medium grained, andesitic tuff.				
231.36 - 231.92		Dark purplish grey, fine grained basalt dike.				
231.92 - 245.0		Grey-green, coarse, augite porphyry flows.				
245.0 - 249.98		Dark, purplish grey, basalt dike.				
249.98 - 253.0		Grey-green, augite porphyry.				
253.0 - 254.25		Pale greenish grey, silicified zone; 30 cm wide quartz vein zone at beginning of section; scattered fine grained pyrite in some of the altered volcanics.	66045	253.0- 254.25	610	1.9
			66044	259.0- 260.5	250	1.0

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH (M.)	AU (PPB)	AG (PPM)
254.25 - 257.25		Mostly coarse augite porphyry; scattered quartz stringers with minor pyrite in adjacent volcanics.	66043 66030 66027	262.5 264.0 267.0- 268.0 268.0-	720 340 860	3.6 0.6 2.5
257.25 - 270.9		Pale green to dark green, andesitic tuff and volcanoclastic sediments; cut by quartz stringers which are at 10-20°	66026	269.0 269.0- 270.65	300	1.3
270.9 - 273.1		Fine grained, dark purplish grey basalt dike - contacts at 20° to core axis; cuts the quartz veining.				
273.1 - 281.0		Dark green augite porphyry becoming brecciated near end of section.				
281.0 - 285.6		Sheared and brecciated greenstone, cut by frequent quartz stringers	66028 66034	282.35- 283.39 284.8 - 285.6	1390 470	2.1 4.6
285.6 - 301.25		Dark green waterlain tuff and mixed agglomerate; minor quartz vein zones, 6 to 10 cm in width - very minor pyrite.				
301.25 - 325.20		Grey-green mixed tuff and agglomerate.				
325.20 - 332.20		Similar to last section.				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
332.20 - 332.90		Feldspar porphyry dike (felsic); fine grained, purplish grey groundmass; subhedral, K-feldspar crystals to 8 mm long.				
332.90 - 356.2		Green grey waterlain tuff and flows (?) zone of quartz veining between 335.0 and 335.8; several other narrow (10-15 cm wide) zones. End of hole	66046	335.0- 335.8	13	0.3

DIAMOND DRILL RECORD

PROPERTY: MARY REYNOLDS

HOLE NO. 89-7

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Dip and Azimuth Test		
Corrected		
Footage	Angle	Azimuth

Core Size NO
 Angle of Hole -63
 Claim
 Grid Loc
 Bearing 115°T

Total Depth 303 M
 % Recovery
 Elev. Collar
 Latitude 114+45N
 Departure 52+85E

Logged by JMD
 Date Started 18/2/89
 Date Finished 22/2/89
 Core Stored At Property

DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
		Hole cased to 11 M				
11.0 - 21.3		Typical green-grey, coarse, augite porphyry; several narrow, bull quartz stringers; narrow fault gouge seams; 50 cm wide mud or gouge zone at end of section				
21.3 - 23.45		Dark purphish grey basalt dike; weakly magnetic.				
23.45 - 49.9		Fairly fresh, coarse, greenish augite porphyry; stringers and blebs of epidote common; minor quartz veining.				
49.9 - 50.75		Medium fine grained greenish andesite tuff - highly faulted and gougy near end of section; minor barren quartz veins.				
50.75 - 52.40		Grey-green, coarse augite porphyry flow.				
52.40 - 65.70		Medium greenish mixed andesite tuff and augite porphyry flows; minor quartz veining.				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
65.70 - 68.95		Similar to last section.				
68.95 - 69.85		Pale greenish, augite porphyry flows; 5-10% narrow white quartz stringers	102551	68.95- 69.85	7	.7
69.85 - 91.65		Coarse augite porphyry with narrow zones of tuff.				
91.65 - 92.20		Zone of quartz and quartz-epidote veining; minor fine grained pyrite; gouge zone (20 cm at end of section)				
92.20 - 97.20		Green-grey, augite porphyry flows.				
97.20 - 97.80		Augite porphyry with several banded quartz - chalcedony veins trace pyrite.				
97.80 - 102.3		Coarse green-grey augite porphyry.				
102.3 - 116.9		Dark grey-green agglomerate; fragments of coarse augite porphyry.				
116.9 - 123.25		Dark grey autobreccia or fine agglomerate.				
123.25 - 124.25		Essentially white chalcedonic silica with fine breccia fragments of greenstone; very minor pyrite; trace galena.	102552	123.25 124.25	8	.1
124.25 - 136.75		Dark green grey andesite tuff.				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
136.75 - 137.05		Narrow 5 cm wide quartz vein - banded with locally 15-25% mixed pyrite-galena in silicified wall rock; vein @ 15° to core axis.				
137.05 - 140.8		Agglomerate of fragments of coarse augite porphyry.				
140.8 - 144.70		Dark green, fine grained tuff or volcanoclastic sediment; minor narrow quartz veining with scattered pyrite and chalcopyrite grains.				
144.70 - 155.75		Dark grey agglomerate.				
155.75 - 162.08		Dark grey to black, tuff and fine agglomerate of more basic volcanics.				
162.08 - 162.58		Zone of quartz veining and brecciation; some areas of finely divided pyrite	102553	162.08- 162.58	205	.2
162.58 - 167.9		Dark grey agglomerate.				
167.9 - 168.9		Pale buff to grey altered, silicified greenstone, scattered quartz stringers scattered clots of fine grained pyrite	102554	167.9- 168.9	3	.5
168.9 - 183.55		Dark grey augite porphyry breccia or agglomerate; 5-10% epidote veins and clots; minor clots of pyrite in last 25 cm section.				

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
183.55 - 184.85		Dark purplish grey basalt dike; weakly magnetic.	10255	183.55- 184.85	1	.1
184.85 - 188.0		Dark green grey augite porphyry.				
188.0 - 190.35		Dark grey to black basalt dike.				
190.35 - 205.90		Agglomerate or flow breccia.				
205.90 - 271.5		Coarse augite porphyry; commonly clots and stringers of epidote.				
221.5 - 222.75		Dark purplish grey basalt dike.				
222.75 - 239.6		Fine to medium grained equigranular andesite.				
239.6 - 243.82		Very coarse, augite porphyry flows.				
243.82 - 245.10		Dark grey to black, fine grained basalt dike				
245.10 - 248.45		Medium grained to coarse grained augite porphyry.				
248.45 - 252.70		Dark grey-black, fine grained basalt minor quartz veining - 30 cm sheared zone.				

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MARY REYNOLDS

HOLE NO.

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
252.70 - 256.75		Medium grained waterlain tuff of typical andesite.				
256.75 - 269.0		Dark purplish grey basalt dike.				
269.0 - 285.7		Typical coarse, augite porphyry.				
285.7 - 286.3		Buff to light grey, bleached and silicified greenstone; scattered fine grained pyrite.	102556	285.7- 286.3	245	1.2
286.3 - 286.75		Medium grained augite porphyry.				
286.75 - 287.6		Buff to grey, silicified and bleached volcanics; scattered fine grained pyrite.	102557	286.75- 287.6	32	.4
287.6 - 287.9		Medium grained augite porphyry.				
287.9 - 295.0		Weakly altered, somewhat bleached augite porphyry; minor narrow quartz veining at 5-10' to core axis.				
295.0 - 300.15		Dark grey augite porphyry.				

PROPERTY:

MARY REYNOLDS

HOLE NO.

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE NO.	SAMPLE WIDTH(M.)	AU (PPB)	AG (PPM)
300.15 - 302.0		Dark purplish grey basalt dike.				
302.0 - 303.0		Dark green grey augite porphyry.				
		End of hole.				

APPENDIX "D"

REFERENCES

REFERENCES

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- Shevchenko, G. (1988): Report on Geological, Geochemcial and Geophysical Surveys on the Stump Lake Property; Private Report to Noranda Exploration Co. Ltd.
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APPENDIX "E"

WRITER'S CERTIFICATE

JAMES M. DAWSON, P. ENG.

Geologist

#203 - 455 GRANVILLE STREET
VANCOUVER, B.C. V6C 1T1

TELEPHONE (604) 688-8278

CERTIFICATE

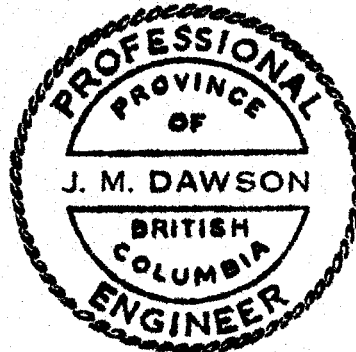
I, JAMES M. DAWSON of Vancouver, British Columbia do hereby certify that:

1. I am a geologist employed by Dawson Geological Consultants Ltd. of Suite 203, 455 Granville Street, Vancouver, British Columbia.
2. I am a graduate of the Memorial University of Newfoundland, B.Sc. (1960), M.Sc. (1963), a fellow of the Geological Association of Canada, and a member of the Association of Professional Engineers of British Columbia. I have practised my profession for twenty-five years.
3. I am the author of this report, which is based on my supervision of the programme of Diamond Drilling carried out on the subject property.
4. I have no direct or indirect interest in the property discussed in this report or in the securities of Rochester Minerals Inc., nor do I expect to receive any.

DAWSON GEOLOGICAL CONSULTANTS LTD.

James M. Dawson
James M. Dawson, P.Eng.

Vancouver, British Columbia
May 2, 1989



APPENDIX "F"

GEOCHEMICAL ANALYSES

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

DATE RECEIVED: FEB 21 1989

DATE REPORT MAILED: *March 3/89*

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. HG ANALYSIS BY FLAMELESS AA.
 BA* .1 GM SAMPLE PUSED WITH .6 GM LIBO2. ANALYSIS BY ICP.

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

DAWSON GEOLOGICAL CONSULTANTS FILE # 89-0300R Page 1

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SAMPLE#	Ag PPM	As PPM	Sb PPM	Au* PPB	Hg PPB	Ba* PPM	Tl PPM
C 102501	.1	14	6	5	180	856	.1
C 102502	.1	12	17	1	40	565	.1
C 102503	.1	19	20	1	30	616	.1
C 102504	.3	50	3	20	120	378	.1
C 102505	.2	19	3	3	110	422	.1
C 102506	.4	31	2	36	170	445	.1
C 102507	.6	108	3	66	100	299	.1
C 102508	.3	13	2	6	70	611	.1
C 102509	.1	8	2	1	60	531	.1
C 102510	1.3	58	20	10	170	260	.1
C 102511	.6	82	18	44	250	344	.1
C 102512	.1	57	19	4	200	911	.2
C 102513	.2	16	4	5	40	1336	.1
C 102514	3.7	153	55	88	190	284	.1
C 102515	7.2	172	23	220	410	33	.1
C 102516	.2	51	4	16	390	96	.2
C 102517	.2	50	5	15	250	199	.1
C 102518	.7	139	6	76	280	150	.1
C 102519	4.8	575	37	240	380	123	.1
C 102520	2.2	248	23	148	550	167	.4
C 102521	3.6	236	33	200	430	297	.3
C 102522	.3	35	4	23	70	216	.2
C 102523	.4	225	7	210	240	236	.3
C 102524	.1	13	2	11	30	257	.1
C 102525	.2	10	2	1	50	473	.1
C 102526	.4	30	2	34	120	512	.2
C 102527	1.7	350	21	310	230	318	.3
C 102528	.3	171	13	85	240	199	.2
C 102529	18.3	483	71	460	210	96	.6
C 102530	29.8	1238	78	1040	400	32	.2
C 102531	19.8	276	32	540	410	185	.2
C 102532	4.5	278	47	280	50	182	.3
C 102533	11.2	323	63	650	80	186	.2
C 102534	7.5	340	42	500	200	141	.3
C 102535	12.8	863	39	880	210	121	.3
C 102536	3.9	221	12	210	60	294	.2
STD C/AU-R	7.3	41	18	470	1300	-	-

SAMPLE#	Ag PPM	As PPM	Sb PPM	Au* PPB	Hg PPB	Ba* PPM	Tl PPM
C 102537	7.0	666	28	1180	80	539	.3
C 102538	290.2	1070	197	1520	1000	284	.2
C 102539	418.6	401	573	435	4300	178	.2
C 102540	12.2	717	32	310	80	208	.3
C 102541	17.9	565	56	1320	160	347	.4
C 102542	34.9	4961	35	1610	120	259	.4
C 102543	31.0	557	64	1230	570	153	.1
C 102544	3.2	233	30	61	240	682	.2
C 102545	112.8	610	194	1290	820	290	.1
C 102546	24.5	658	29	245	150	296	.1
C 102547	12.0	434	51	350	90	244	.2
STD C/AU-R	8.1	41	18	505	1300	-	-

ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED: FEB 24 1989

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

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

March 7, 1989

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. HG ANALYSIS BY FLAMELESS AA.

BA* .1 GM SAMPLE FUSED WITH .6 GM LIBO2. ANALYSIS BY ICP.

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

DAWSON GEOLOGICAL CONSULTANTS FILE # 89-0428

SAMPLE#	Ag PPM	As PPM	Sb PPM	Au* PPB	Hg PPB	Tl PPM	Ba* PPM
C 102551	.7	53	3	7	140	.2	289
C 102552	.1	19	2	8	30	.1	90
C 102553	.2	597	2	205	50	.2	167
C 102554	.5	328	16	3	40	.2	332
C 102555	.1	10	2	1	10	.1	1234
C 102556	1.2	741	28	245	300	.7	394
C 102557	.4	268	16	32	280	.4	613
STD C/AU-R	7.1	40	17	480	1300	-	-

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

DATE RECEIVED: FEB 17 1989

DATE REPORT MAILED:

March 1/89

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. HG ANALYSIS BY FLANLESS AA.

BA* .1 GM SAMPLE FUSED WITH .6 GM LIBO2. ANALYSIS BY ICP.

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

89-6
DAWSON GEOLOGICAL CONSULTANTS FILE # 89-0374R

SAMPLE#	Ag PPM	As PPM	Sb PPM	Au* PPB	Hg PPB	Ba* PPM	Tl PPM
66026	1.3	966	48	300	80	508	.2
66027	2.5	1331	61	860	70	274	.3
66028	2.1	3266	24	1390	30	375	.2
66029	.8	364	37	90	70	121	.2
66030	.6	830	22	340	50	236	.2
66031	2.7	1527	152	550	170	352	.4
66032	2.1	557	46	460	30	185	.3
66033	.3	336	28	70	110	161	.2
66034	4.6	1116	27	470	50	210	.1
66035	.2	6	2	6	20	239	.1
66036	4.6	2845	198	2190	1100	45	.7
66037	1.4	693	36	240	150	192	.3
66038	.1	13	2	13	30	310	.2
66039	1.8	717	37	750	140	289	.5
66040	5.3	3129	54	1320	150	101	.6
66041	.5	407	31	81	90	31	.1
66042	4.1	3391	67	1730	130	95	.4
66043	3.6	2110	67	720	160	370	.4
66044	1.0	409	39	250	90	606	.2
66045	1.9	506	16	610	40	841	.3
66046	.3	16	2	13	10	220	.1
STD C/AU-R	7.3	41	19	515	1400	-	-

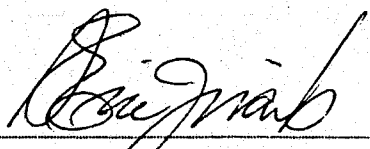
Certificate of GEOCHEM

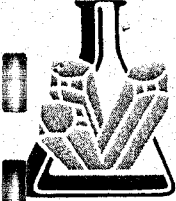
Company: DAWSON GEOLOGICAL CONSUL. LTD.
Project:
Attention: JAMES M. DAWSON

File: 9-128/P1
Date: FEB. 23/89
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	BA PPM	HG PPB	SB PPM	TL PPB
2751	19	350	25	1	<20
2752	18	470	150	1	<20
2753	111	300	85	4	<20
2754	500	400	355	11	<20
2755	1125	140	275	17	30
2756	152	300	200	4	135
2757	500	410	405	15	20
2758	600	170	1900	10	<20
2759	550	210	420	12	<20
2760	450	130	1725	20	20
2761	153	170	365	1	130
2762	18	210	155	6	<20
2763	63	230	35	2	<20
2764	675	400	170	1	<20
2765	106	310	110	5	<20
2766	15	640	125	7	<20
2767	141	250	220	10	<20
2768	42	320	185	1	105
2769	152	210	205	1	<20
2770	950	200	270	5	<20
2771	74	210	170	1	<20
2772	21	270	60	7	<20
2773	27	230	25	1	25
2774	450	200	130	3	<20
2775	99	420	145	4	230
2776	425	240	530	1	550
2777	550	210	345	5	<20
2778	525	200	210	8	<20
2779	33	900	195	2	25
2780	11	430	5	1	<20

Certified by 



MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
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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 Geochem

Company: DAWSON GEOLOGICAL CONSUL. LTD.

File: 9-128/P2

Project:

Date: FEB. 23/89

Attention: JAMES M. DAWSON

Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	BA PPM	HG PPB	SB PPM	TL PPB
2781	2500	200	20	3	25
2782	1150	170	175	22	205
2783	6250	200	95	23	150
2784	5000	350	90	2	20
2785	850	200	90	5	20
2786	6875	190	55	5	20
2787	1625	280	65	2	30
2788	78	640	30	3	<20
2789	83	340	35	1	25
2790	150	320	285	2	25
2791	135	330	445	5	175
2792	120	220	95	1	<20
2793	84	210	20	4	<20
2794	13	300	15	1	<20
2795	475	200	220	16	<20
2796	29	300	25	1	<20
2797	2800	400	155	12	140
2798	800	480	390	1	20
2799	2800	400	55	7	<20
2800	69	630	25	3	<20
2801	2725	520	45	4	<20
2802	475	480	30	5	<20
2803	67	230	150	1	<20
2804	149	760	1210	4	190
2805	45	1040	585	3	25
2806	425	300	135	2	<20
2807	38	500	200	1	<20
2808	96	450	195	7	20
2809	62	500	210	5	25
2810	94	540	215	1	20

Certified by

MIN-EN LABORATORIES LTD.



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

Certificate of Geochem

Company: DAWSON GEOLOGICAL CONSUL. LTD.
Project:
Attention: JAMES M. DAWSON

File: 9-128/P3
Date: FEB. 23/89
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	BA PPM	HG PPB	SB PPM	TL PPB
2811	42	290	120	2	<20
2812	425	620	105	1	<20
2813	65	470	50	1	<20
2814	1150	320	125	2	<20

Certified by _____

MIN-EN LABORATORIES LTD.



Certificate of GEOCHEM

Company: DAWSON GEOLOGICAL
Project:
Attention: JIM DAWSON

File: 9-127/P1
Date: FEB 23/89
Type: PULP GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AS PPM	BA PPM	HG PPB	SB PPM	TL PPB
115 251	500	300	360	15	20
115 252	20	370	85	1	<20
115 253	275	600	400	2	<20
115 254	9	1500	65	1	<20
115 255	875	320	755	159	<20
115 256	3050	500	190	12	20
115 257	55	980	45	2	<20
115 258	1600	300	145	10	<20
115 259	400	290	250	4	<20
115 260	225	290	295	1	20
115 261	19	310	160	1	<20
115 262	63	300	205	5	20
115 263	18	450	210	2	<20
115 264	600	330	205	3	20

Certified by _____