REPORT ON SOIL GEOCHEMISTRY, ROCK SAMPLING AND DIAMOND DRILLING

1980 EXPLORATION PROGRAM

ST MINERAL CLAIM

NANAIMO MINING DIVISION

N.T.S. MAP-AREA 92L/12E

LAT. 50°40'N; LONG. 127°42'W.

OWNED AND OPERATED BY ELECTRA RESOURCES CORPORATION

Prepared by ANDY GLATIOTIS, B.Sc.Geol.

Under supervision of W.G. SMITHERINGALE & ASSOCIATES LTD.

FEBRUARY 28, 1981

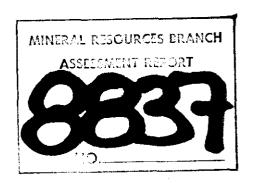


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SUMMARY

- 1. Mineralization is contained in rock having typical skarn mineralogy at or near volcanic or volcanic-sedimentary contacts. Sphalerite, pyrite, chalcopyrite and galena are the visible sulfide minerals. Values range from: 0.15% to 1.4% Cu, 0.01% to 1.4% Pb, 0.50% to 10.2% Zn and 0.10 oz/ton to 1.67 oz/ton Ag. Gold values averaged 0.002 oz/ton.
- 2. Exploration in 1980 consisted of extending the soil geochemical grid, prospecting and trenching, geological mapping, rock sampling, surveying and diamond drilling. Total cost of the program was \$32,342.05.
- 3. No mineable mineralization was delineated. Two previously unknown areas of mineralization were outlined and the potential of the property was thus increased.

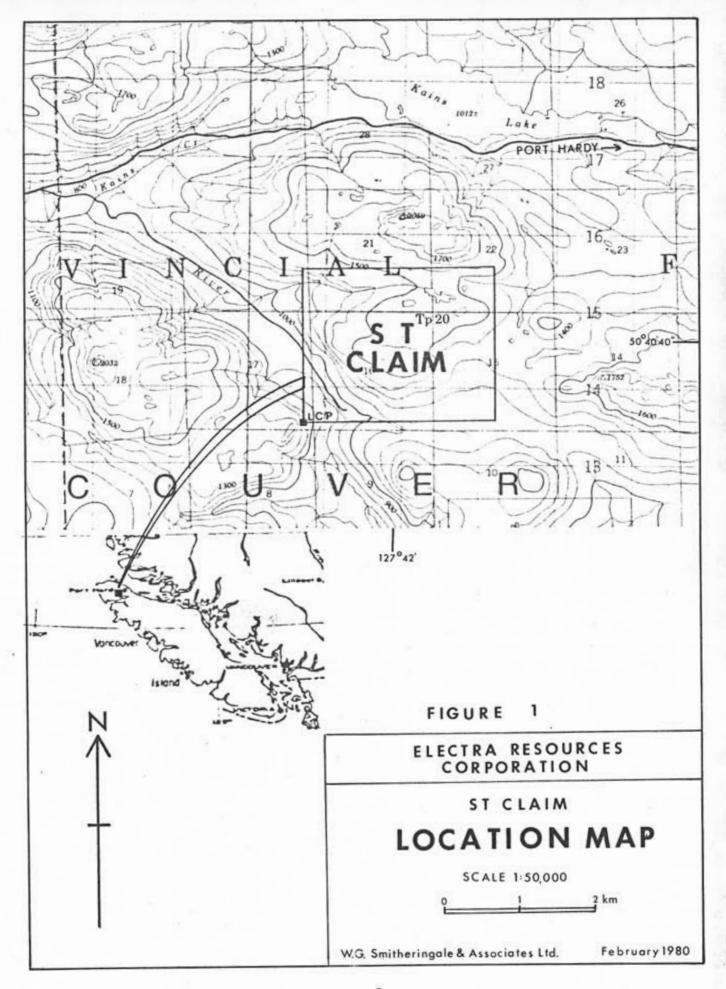
INTRODUCTION

The ST claim is located in northern Vancouver Island at Lat. $50^{\circ}40$ 'N and Long. $127^{\circ}42$ 'W in the Nanaimo Mining Division, NTS map-area 92L/12E (Fig.1). The property is easily accessible by 30 km (19mi) of gravel road from Port Hardy.

The ST claim was staked by the modified grid system in November, 1978. It overlapped several existing claims and consequently it consists of 14 full units and 4 partial units. It is currently owned and operated by Electra Resources Corp. of Vancouver, B.C. The property contains one or more tabular bodies up to 1.5m thick of semi-massive to disseminated sphalerite with lesser galena, chalcopyrite and pyrite in a skarn host. The continuity and extent of the mineralized zone(s) has not yet been determined.

Part of the property was geologically mapped and soil sampled in 1979 (Smitheringale, 1980). The 1980 program described herein was based on the 1979 results and consisted of the following.

- 1. Further geological mapping of the main showing area $(300m \times 300m)$ on a scale of 1:500 (Fig.2).
- 2. Geochemical soil survey: 112 samples (Fig. 3).
- 3. Rock sampling and assaying: 24 samples.



- 4. Hand trenching: 4 two metre long trenches.
- 5. Diamond drilling: 226m of BQ core, 26 assays.
- 6. Chain and compass survey of drill sites, trenches and rock sample sites within the $300m \times 300m$ area of the main showing.

These features are shown on Fig. 2.

GEOLOGY

The rock types encountered during mapping were quartz-eye feldspar porphyry, feldspar-hornblende porphyry, massive amygdaloidal and porphyritic volcanics, limestone and skarn.

MIneralization occurs in typical skarn mineralogy at the contacts of quartz-eye feldspar porphyry or feldspar-horn-blende porphyry. Typically the sulfides are contained within a matrix of coarsely bladed dark green hornblende with minor epidote and calcite. No evidence was obtained to conclusively deny or support a syngentic theory of mineral emplacement.

GEOCHEMICAL SOIL SURVEY

An area east of the 1979 grid was soil sampled on 50m centres. Samples were collected from the lower B or C horizon using a soil auger. The samples were collected

in kraft paper soil sample bags and sent to Min-En Labs of North Vancouver for analysis. There they were dried and sieved, and the -80 mesh fraction was analyzed for Cu, Pb and Zn using a nitric-perchloric acid digestion and atomic adsorption analysis. A total of 112 samples were collected and analyzed. The results are shown on Fig. 3.

No anomalous areas were encountered, although some spot highs were found.

ROCK SAMPLING

Continuous chip samples, R1 through R17 were taken from skarn outcrops. The samples were assayed for Cu, Pb, Zn, Ag, Au, Mo, and $W0_3$. The sample locations are shown on Fig.2 and the assay results are tabulated in Table 1. No significant values of Mo or $W0_3$ were encountered. Gold values were low.

TABLE 1 - ROCK SAMPLE ASSAY RESULTS, 1980

Assay Sample No.	Map Sample No.	Sample Length (m)	Cu %	Pb %	Zn %	Ag oz/ton	Au oz/ton	Mo %	wo ₃ %
	ous Chip								
860 861 862 863 864 865 866 867 868 873 876 875 879 871 872 874	R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16	3.2 3.2 4.3 3.2 1.0 1.1 3.2 3.5 4.0 4.5 3.0 3.0 4.0 2.5	0.695 0.420 0.256 0.225 0.535 0.020 0.074 0.683 0.512 0.614 0.032 0.149 0.984 0.060 0.187 1.385	0.05 0.06 0.04 0.05 0.01 0.11 0.08 0.17 0.25 1.38 1.01 0.20 0.02 0.02 0.02 0.58	8.20 8.10 7.00 3.95 6.65 0.52 0.21 7.80 10.20 4.77 2.95 3.63 3.77 4.16 1.29 2.43 6.22	0.33 0.29 0.21 0.21 0.09 0.40 0.63 0.70 0.77 0.86 0.53 1.67 0.70 0.25 0.38 0.71	0.002 0.003 0.003 0.002 0.002 0.003 0.003 0.003 0.004 0.002 0.001 0.002 0.002	0.002 0.003 0.003 0.002 0.001 0.003 0.003	0.001 0.001 0.001 0.001 0.001 0.001 0.001
Spot C	hip Samp	les							
JR-1 JR-2 JR-3 HBH3 HBH2-A 895 896			0.262 - 0.034 0.009 0.104 0.042	0.06	0.02 0.04 33.20 31.70 20.50 6.24 1.60	0.12 0.23 0.10 1.88 0.22 4.12 0.53	0.009 0.003 0.066 0.006 0.003 0.003	- - - -	0.001 0.001 0.001 0.001 0.001

PROSPECTING AND TRENCHING

Mineralized float, noted in 1979, was traced to its source and exposed by four hand dug trenches over a distance of 75 metres (246 ft.). The trenches varied from 1.5m to 2.5m in length. The mineralization appears to continue under overburden that was too deep to trench by hand in a short period of time. The mineralization consists of chalcopyrite, pyrite, sphalerite and galena scattered throughout a coarsely bladed hornblende matrix. It occurs at the contact of a quartz-eye feldspar porphyry unit and the zone is open to both the east and west.

Float noticed at the side of the road in the previous year was trenched, exposing 13 metres (42.6 ft) of mineralized outcrop. The mineralization in this outcrop strikes under the road and under overburden. A drill hole was collared in mineralization here, indicating a shallowly dipping zone in direct contact with feldspar-hornblende porphyry. Mineralization consists of a fine grained black mass of sphalerite irregularly distributed in recrystallized limestone and green skarn. This zone is open to the east, west and south.

TABLE 2 - DIAMOND DRILL HOLE DATE

Hole No.	Azimuth	Inclination	Length (m)
80-1 80-2 80-3 80-4 80-5 80-6 80-7	295° 226° 150° 20° 20° 20°	-45° -60° -45° -45° -45° -60° -90°	17.7 32.3 53.0 83.8 9.4 17.1 6.1
80-7 80-8	90 ⁰	-45°	6.5

TABLE 3 - 1980 DIAMOND DRILL HOLE ASSAY RESULTS

Interval (metres)	Cu %	Pb %	Zn %	Ag oz/ton	Au oz/ton
1.3 - 1.6	0.402	1.06	6.15	0.99	0.001
1.6 - 3.3	0.576	0.44	9.80	0.42	0.001
3.3 - 5.2	0.124	0.32	4.95	0.32	0.003
5.2 - 6.6	0.007	0.01	0.07	0.06	0.002
6.6 - 8.2	0.005	0.01	0.03	0.03	0.001
4.6 - 5.9	0.562	0.45	7.68	0.51	0.003
5.9 - 7.2	0.012	0.01	0.13	0.07	0.002
7.2 - 9.8	0.004	0.01	0.03	0.02	0.002
87.9 -90.2	0.020	0.01	0.03	0.09	0.002
86.3 -87.9	0.026	0.01	0.01	0.10	0.002
84.9 -86.3	0.042	0.02	0.01	0.10	0.002
83.0 -84.9	0.001	0.01	0.01	0.10	0.003
1.3 - 2.6	2.060	0.02	1.46	2.42	0.002*
1.3 - 2.6	0.902	0.02	1.63	1.21	0.002
2.6 - 3.6	0.858	0.01	0.74	0.90	0.003
5.2 - 6.2	0.390	0.01	0.30	0.82	0.002
3.7 - 4.7	0.061	0.29	0.62	0.39	0.002
5.9 - 6.6	0.045	0.02	0.50	0.81	0.002
4.6 - 5.9	0.022	0.01	0.16	0.10	0.002
1.0 - 4.6	0.388	0.43	4.58	0.78	0.003
1.3 - 3.3	0.860	0.01	4.01	0.68	0.002
3.3 - 5.2	0.261	0.02	11.80	0.30	0.005
1.0 - 2.3	1.086	0.01	0.84	0.83	0.003*
2.3 - 3.9	0.401	0.01	5.40	0.32	0.002*
3.9 - 4.6	0.602	0.01	5.69	0.49	0.003*
4.6 - 6.9	0.169	0.01	0.96	0.20	0.002*
	1.3 - 1.6 1.6 - 3.3 3.3 - 5.2 5.2 - 6.6 6.6 - 8.2 4.6 - 5.9 5.9 - 7.2 7.2 - 9.8 87.9 -90.2 86.3 -87.9 84.9 -86.3 83.0 -84.9 1.3 - 2.6 2.6 - 3.6 5.2 - 6.2 3.7 - 4.7 5.9 - 6.6 4.6 - 5.9 1.0 - 4.6 1.3 - 3.3 3.3 - 5.2 1.0 - 2.3 2.3 - 3.9 3.9 - 4.6	1.3 - 1.6	1.3 - 1.6	1.3 - 1.6	(metres)

^{*} Drill cuttings were tested instead of core. *

SURVEYING

A crude map was prepared using a metric chain and a brunton compass to indicate the relative locations of the drill setups, rock sampling locations and outcrops. Closure was within 10 metres.

DIAMOND DRILLING

A total of eight shallow diamond drill holes were drilled totalling 226m (741 ft) of BQ drilling. Twenty-six core samples were taken for assay. The drill hole data are given in Table 2, the assay results in Table 3 and a summary of assay data in Table 4.

TABLE 4 - SUMMARY OF DIAMOND DRILL HOLE ASSAYS

Hole #	Intercept (metres)	Average Cu %	Pb %	Zn %	Ag	Au
	(metres)				oz/ton	oz/ton
80-1	3.9	0.378	0.45	7.50	0.44	0.002
80-2	1.3	0.562	0.45	7.68	0.51	0.003
80-4	5.3	0.027	0.01	0.02	0.10	0.002
80-5	4.9	0.735	0.01	0.96	1.00	0.002
80-6	1.0	0.061	0.03	0.62	0.39	0.002
80-7	.7	0.045	0.02	0.50	0.81	0.002
	3.6	0.388	0.43	4.58	0.78	0.003
80–8	3.9	0.560	0.02	7.90	0.49	0.003

Note- The diaronal drill core is being stored at 11120 Bridge Road, Surrey, R.C.

CONCLUSION

- 1. The mineralization is found at the contacts of quartzeye feldspar porphyry and feldspar-hornblende porphyry
 with other rock units. It exhibits typical skarn
 mineralogy. There is no evidence to support or deny
 a syngenetic origin for the mineralization.
- 2. Three zones of mineralization are presently known on the property with a strong probability that more exist.
- 3. Mineralization consists of sphalerite and pyrite with minor chalcopyrite, galena. Silver values are present.
- 4. Although no mineable ore was delineated the potential of the property remains good. The new zone needs to be adequately tested.
- 5. The extended soil grid encompassed no new anomalies.

 However, some spot highs were present. The grid covers

 only a small fraction of the entire property.
- 6. The drill program did not adequately test the known exposures. Their true potential remains yet to be determined.

ITEMIZED COST STATEMENT OF WORK PERFORMED 1980 EXPLORATION PROGRAM, ST CLAIM

1.	Geologist: 20 days @ \$110/day	\$ 2,200.00
2.	Labourers: 47 man days @ \$60/day	2,820.00
3.	Analysis: (a) 50 rock samples, assay for Cu (\$6.50), Pb (\$7.00), Ag (\$7.50), Au (\$8.00) plus preparation (\$2.75) \$2,012.00 (b) 22 rock samples assay for	
	(b) 22 rock samples, assay for Mo (\$9.00) and WO ₃ (\$11.00) 440.00 (c) 112 soil samples for Cu,	
	Pb and Zn, plus preparation at \$4.65 ea520.80	2,972.65
4.	Camp costs: 67 man days @ \$15/day/man	1,005.00
5.	Drilling: 741 feet including mobilization and demobilization	22,744.40
6.	Report	600.00
	TOTAL	\$ 32,342.05

CERTIFICATION

- I, Andy Glatiotis, BSc., of Vancouver, British Columbia, do hereby state:
- 1. I am a geologist. I graduated from the University of Calgary, Alberta in 1977 with a Bachelor of Science degree in geology.
- 2. I have practised exploration geology for six years on a seasonal basis and two years on a fulltime basis. My experience was gained in B.C., the Yukon, the Northwest Territories and Tasmania.
- 3. I am contracted by Electra Resources to write this report and supervise exploration programs.
- 4. I maintain a modest investment interest in the company.
- 5. The report may be used by Electra Resources Corporation to be filed for property assessment work.

Dated at Vancouver, B.C. the 29th day of February, 1981

ELECTRA RESOURCES CORPORATION

Andy Glatiotis, B.Sc.

Geologist

CERTIFICATION

I, William G. Smitheringale, certify that:

I am a practising Professional Geological Engineer, resident at 219 - 145 Keith Road, North Vancouver, B.C.

I am a graduate of the University of British Columbia with a degree in Geological Engineering (B.Ap.Sc., 1955) and of the Massachussets Institute of Technology with the degree of Doctor of Philosphy in Geology (Ph.D., 1962).

I have practised my profession continuously for nineteen years as geologist with the Geological Survey of Canada, as Assistant and Associate Professor, Department of Geology, Memorial University of Newfoundland, and since 1974, as a Consulting Geologist.

I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.

I was not on the ST property while the work described in this report was being done, however, I visited the property after the work was completed and confirmed that the work described herein was done.

I hold no interest in the ST claim or Electra Resources Corp., nor do I expect to acquire any in the near future.



W.G. SMITHERINGALE, P.Eng.

September 4, 1981

BIBLIOGRAPHY

- Muller, J.E., Northcote, K.E., Carlisle, D. 1974: Geology and Mineral Deposits of Alert Bay - Cape Scott Map Area, Vancouver Island, British Columbia; Geological Survey Canada, paper 74-8.
- 2. Philip, R.H.D., 1979: Report on the ST Claim, Nanaimo Mining Division, B.C.; unpublished report prepared for Electra Resources Corp., 907-1112 West Pender Street, Vancouver, B.C.
- 3. Smitheringale, W.G., 1980: 1979 Exploration Program, ST Mineral Claim, Northern Vancouver Island, B.C.; unpublished report for Electra Resources Corporation, 907-1112 West Pender Street, Vancouver, B.C.

APPENDIX I

DIAMOND DRILL HOLE LOGS

ELECTRA RESOURCES CORP.

ST PROJECT

DDH #80-1

Logged by W.G.Smitheringale
April 1, 1981

Deptl	n
(m)	

Description

- 0- 1.2 A few fragments of core; mineralized skarn?
- 1.2- 5.2 Skarn (map unit 4): f, med & cse gr; banded, limey; well mineralized.

 Banding to C.A.: 1.5-1.8m 60°-90°; 2.4-4.0m broken & variable; 4.0m 45°.
 - 4.9-5.2m mainly epidote; margin of skarn zone.
 - 5.2 Contact with hbe-plag. por'y.
- 5.2-7.3 (map unit 5): Altered por'y.
 5.2-5.8m pink, feldspathized (pink plag.)
 5.8-7.3m strongly epidotized
- 7.3-17.7 Hbe-plag por'y: greenish grey; f-med gr; hbe partly epidotized.

 Several 1-2cm calcite bands (probably veins) 35° to C.A.

 No dissem. po. seen.
 - 17.7 END

ELECTRA RESOURCES CORP.

ST PROJECT

DDH #80-2

Logged by W.G. Smitheringale April 1, 1981

$\frac{\text{Depth}}{(m)}$	Description
0- 4.3	Partial Core Recovery - ground fragments of med- gr. qtz dio&dk. green f-gr andesite (overburden boulders?)
4.3- 6.7	Skarn (map unit 4): banded; generally dk. green; local lt. green-grey bands hbe-plag rk. that looks like underlying hbe-plag por'y; limey. Banding to C.A.: 4.3-6.7m 30-45
	4.3-5.5m well mineralized mainly ZnS, minor PbS & Cp.
6.7	5.5-6.7m dk. green, f-med gr. andesitic, lithic-xtle tuff; locally almost completely epidotized. Only sparsely mineralized. Banding to C.A.: 4.3-6.7m 30-45° Approx. contact
6.7-22.9	Hbe-plag por'y: (map unit 5): green & grey; f-med gr; no po.; plag & hbe phenos. epidotized. Banding to C.A.: 10.0m fr. cleav. 10°-30°.
	6.7-14.0m med. green, mainly f-gr; e.g. Spec. $80-2$ -1.
	11.3m Spec. $80-2-1$ for thin $\sec \underline{n}$.
	14.0-20.7m light greenish grey, phenos mainly med-gr.
	At 16.8m contains apparent frags of andesite?, e.g. Spec. 80-2-2 for thin section.
	Occasional calcite veins 45° to C.A.
	20.7-22.2m same as 6.7-14.0m
	22.2m Contact interbanded, e.g. Spec. $80-2-3$ for thin section. Contact 40° to C.A.
22.9-24.4	Breccia: mostly frags of white aphanitic rk. (plag. ± chert?) in matrix of f-gr. hbe-plag por'y of various shades & textures. But locally frags are hbe-plag por'y in white aphanitic matrix. No fr-cleav or shear planes. Probably a tectonic bx, but I suspect it could be pri-
	mary, or else layers of white aphanitic material in por'y subsequently fragmented prior to lithification.
24.4-25.6	<pre>Hbe-plag por'y: green-grey, med-gr. like 14.0-20.7m.</pre>
25.6-26.8	Hbe-por'y: med. green; med-gr. hbe plenos in lt.green-grey aphanitic matrix; somewhat resembles 6.7-14.0m.

Hbe-plag por'y: like 14.0-14.6m.

29.6-32.0m breccia: Deformed broken calcite-qtz. veinlets containing py & PbS in hbe-plag por'y matrix

i.e. two phases of fracturing or brecciation.

32.3 END

26.8-32.3

Page 1 of 2.

ELECTRA RESOURCES CORP.

ST PROJECT

DDH #80-3

Logged by W.G. Smitheringale
April 1,1981

Depth (m)

Description

- 0-4.3 Ground core fragments of mixed lithology
- 1.4-5.5 Skarn (map unit 4): banded white aphanitic plag.? (cherty?) and f-gr. hbe-plag. por'y in aphanitic matrix of various shades of green. Much epidotization. Some pink feldspar near contact. Not mineralized. This interval looks like non-mineralized skarn below mineralization in DH 80-2.

Contact with hbe-plag. por'y is disrupted but appears to be gradational.

Banding to C.A.: 4.3-5.4m at 45° .

- 5.5-45 Hbe-plag. por'y (map unit 5): Lt. greenish grey, f. to med-gr. phenos. A few scattered fragments of green, finer gr. hbe-plag. por'y.
 - 6.7-7.3m grey-green, f.gr. hbe plag. por'y. Contacts in broken & missing core.
 - 14.0-14.9 same as 6.7-7.3m. Small lithic frags at lower contact. Upper contact obscured by broken core.

Lower contact alt'd & disrupted but it appears to be abruptly gradational.

- 25.0-25.3m skarn-like zone of epidote, pink feldspar & hbe-plag por'y of various shades & textures; vaguely banded; contains 0.5% ZnS & minor cp. & py.
- 28.0-28.7m Bx; lt. green & grey aphanitic broken bands & fragments in f.gr. hbe-plag. por'y matrix. Like 22.9-24.4m in DH 80-2.

Por'y grades into & out of finer grained zones with darker & partly aphanitic matrix.

- 39.3-40.5m Shear Zone; shear cleav. 50° to C.A.
- 40.5-41.7m Lt. grey hbe por'y; matrix is f.gr. to aphanitic plag? distinctly lighter than normal por'y. Contacts abrupt & one shows possible chilled margin. May be a dyke.

43.3-44.8m Same as 40.5-41.7m.

- 41.7 Contact sharp; no chill effects.
- 41.7-47.9 Andesite (map unit 5a): dk. green, f-gr.

44.8-46.3m little epidote.

46.3-47.9 numerous blebs of epidote, some with calcite cores. Could be amygdules. (flow overturned?)

Page 2 of 2.

ELECTRA RESOURCES CORP.

ST PROJECT

DDH #80-3

Logged by W.G. Smitheringale
April 1,1981

De	p	th
7	m	\mathbf{T}

Description

- 47.9 Contact flt'd, but appears sharp. No chill effects.
- 47.9-48.8 Hbe-plag por'y (map unit 5): lt. grey, med.gr. like normal 5.5-41.7m.
- 48.8-50.3 Andesite (map unit 5a): dk.green, f.med gr., plag porphyritic. Plag epidotized.
 - 50.3 Contact sharp. No effects. Contact 45° to C.A.
- Qtz. eye por'y (map unit 6): lt. grey; med-gr. hbe & qtz. phenos in aphanitic matrix. Possibly a few plag. phenos. Qtz. phenos anhedral to euhedral. Hbe & qtz vary 30%-70% to 70%-30%. Hbe (& plag?) phenos epidotized.

50.6m Spec. 80-3-1 for thin secn. Qtz eye Por'y.

N.B. Hbe & plag in entire hole epidotized.

53.0 END

ELECTRA RESOURCES CORP.

ST PROJECT

DDH #80-4

Logged by W.G. Smitheringale

 $\frac{\text{Depth}}{(m)}$

Description

April 1, 1981

- 0- 1.8 Ground core fragments, mixed lithology
- 1.8-79.0 Limestone (Quatsino); med grey, aphanitic; locally with argillaceous beds; but generally massive.
 - 1.8-10.7m Local tight folding; Axial plane cleav. 30° to C.A.
 - 9.1m flt.
 - 12.1m flt.
 - 19.8-22.9m cleav. 20° to C.A.
 - 25.9m cleav. 30° to C.A.
 - 39.6m cleav. 30° to C.A.
 - 57.9m cleav. 35° to C.A.
 - 71.6m cleav. 35° to C.A.
 - 73.1m L.S. becomes laminated
 - 78.9m Sharp contact.
- 78.9-82.0 Felsic tuff: lt. grey, aphanitic, to very f.gr. (plag?) laths; very pyritic (10%+); in places banded, in places cherty & often with calcite "eyes". e.g. 3 specimens. Spec. 80-4-1 for thin secn.
 - 82.0m Abrupt contact, altho tuff for 1 ft. next to contact is dk.green & contains andesitic frags, i.e. andesite probably underlies tuff.
- 82.0-83.8 Basalt (or Andesite) (map unit 1): dk.green, f.gr. chloritized; top 1 ft. vesicular.
 - 83.8 END

ELECTRA RESOURCES CORP.
ST PROJECT
DDH #80-5

Logged by W.G. Smitheringale April 1,1981

Depth (m)	<u>Description</u>
0- 1.5	No core
1.5- 1.8	Basalt (or andesite): Appears to be a tuff; dk.green, f.gr. contact missing.
1.8- 3.4	Skarn (map unit 4): lightly mineralized with ZnS, cp & py; locally banded most core missing.
	Contact sharp, 70° to C.A.
3.4- 4.9	Limestone: med. grey, aphanitic, faintly bedded.
	Bedding (transposed?) 50° to C.A.
4.9~ 5.8	Skarn: dk.green, med-cse gr. amphibolite, minor qtz. & calcite; locally chloritic. Not mineralized.
5.8- 9.4	Qtz. eye por'y (map unit 6): lt.grey; med gr. qtz & hbe phenos in aphanitic matrix. ±50/50 qtz. & hbe; possibly some plag. Hbe epidotized.
9.4	END

ELECTRA RESOURCES CORP.

ST PROJECT

DDH #80-6

Logged by W.G. Smitheringale
April 1,1981

Depth (m)	Description
0- 3.0	Core missing
3.0- 3.3	LS: med grey, aphanitic. Like 3.4-4.9m in DH80-5.
3.3- 4.6	Skarn: dk.green; f-cse gr. bladed amphibole & epidote locally cherty & tuffaceous.
4.6- 8.5	Andesite (or basalt): dk.green, f.gr., appears to be tuffaceous.
8.5- 8.8	Qtz. eye por'y (map unit 6): f.grmed.gr. qtz. in aphanitic lt.grey matrix. No hbe phenos, just small hbe shreds.
	Contacts in missing core.
8.8-14.9	Andesite (or basalt) (map unit 7): dk.green, most. with f-med gr. plag. phenocrysts set in a f.gr. matrix. Some appears tuffaceous, some appears amygdaloidal.
	Plag. epidotized.
	Lower contact abrupt.
14.9-17.1	Andesite or basalt (map unit 7): dk.green, f.gr.; probably a flow.
17.1	END

ELECTRA RESOURCES CORP.

ST PROJECT |
DDH #80-7

Logged by W.G. Smitheringale April 1, 1981

Depth (m)	Description
09	Ground frags of green-blk. basalt. Could be overburden.
.9- 4.3	Skarn (map unit 4): med-cse.gr. bladed amphibolite; sparsely mineralized.
4.3- 4.9	Skarn: dk.green; f-med gr. strongly epidotized; appears to be an andesitic lithic tuff.
4.9- 5.2	Qtz-epidote vein.
5.2- 5.5	Epidote sand; no core.
5.5- 6.1	Andesite: dk.green, f-gr.; med gr. plag. phenos set in f.gr. matrix; plag epidotized. Probable flow.
6.1	END

ELECTRA RESOURCES CORP.

ST PROJECT |
DDH #80-8
Logged by W.G. Smitheringale
April 1, 1981

De	P	t	h
7	m	7	

Description

- 0- 1.2 Ground frags of basalt Most core missing.
- 1.2-4.3 Skarn (map unit 4): amphibole & epidote. Mod to heavily mineralized with ZnS, cp. & py.

 3.4-4.3m massive ZnS.
- 4.3-6.4 Qtz. eye por'y (map unit 6): lt.grey, f-med gr. qtz & hbe phenos in aphanitic matrix. About 50-50-qtz & hbe; possibly some plag phenos; hbe epidotized. 6.4m Flt gouge.
 - 6.5 END

APPENDIX II

ASSAY CERTIFICATES

705 WEST 15TH STREET NORTH VANCOUVER, B.C. Phone: 980-5814

Certificate of Assay

Attn:

O: Electra Resources, PROJECT No. D. Stelling

616-510 W. Hastings St., DATE July 18/80.

Va	ncouver, B.	С.	File	No. 0-461	
SAMPLE No.	Mo %	Cu %	Pb %	Zn %	_
852	.002	.402	1.06	6.15	PH 80-1
853	.001	. 576	. 44	9.80	
854	.001	.124	.32	4.95	19-11
855_	.001	.007	.01	.07	16-50
856	.001	.005	.01	.03	20-25
857	.001	.562	.45	7.68	14'-12
858	.001	.012	.01	.13	18'- 21
859	.001	.004	.01	, 03	20-2
860	.002	.695	.05	8.20	RI
861	.002	.420	.06	8.10	RZ
862	.003	. 256	.04	7.00	R3
863	.003	. 225	.05	3.95	R4
864	.002	.535	.01	6.65	R5
865	.001	.020	.11	. 52	R6
866	.003	.074	.08	. 21	R7
867	.003	.683	.17	7.80	R8
868	.002	512	. 25	10.20	_ R9
JR-1		. 262		.02	
2			.01	.04	
JR-3			.01	33.20	_
нвн#3		.034	.06	31.70	1
HB2-A		.009	1.47	20.50	_/

MIN-EN Laboratories Ltd

CERTIFIED BY ..

705 WEST 15TH STREET

NORTH VANCOUVER, B.C. Phone: 980-5814 Certificate of Assay

Attn:

TO: Electra	Resources,		PROJECT No. D. Stelling
	W. Hastings	St.,	DATE July 18/80.
Vancouve	r, B.C.		File No. 0 - 461

			<u> </u>	
SAMPLE No.	Ag	Au	wo ₃ %	
	oz/ton	oz/ton		
852	.99	.001	.001	
853	.42	.001	.001	
854	.32	.003	.001	
855	.06	.002	.001	
856	.03	.001	.001	
857	.51	.003	.001	
858	.07	.002	.001	
859	.02	.002	.001	
860	.33	.002	.001	
861	.29	.002	.001	
862	.21	.003	.001	
863	.21	.003	.001	
864	.21	.002	.001	<u> </u>
865	.09	.002	.001	
866	.40	.002	.001	
867	.63	.003	.001	•
868	.70	.002	.001	
JR-1	.12	.009	.001	
2	. 23	.003	.001	
JR-3	.10	.066	.001	
нвн#3	1.88	.006	.001	
HB2-A	.22	.003	.001/(

MIN-EN Laboratories Ltd

CERTIFIED BY

705 WEST 15TH STREET NORTH VANCOUVER, B.C.

Certificate of Assay

Electra Resources Ltd.

Attn:

PROJECT No. D. Stelling

616-510 W. Hastings St.,

DATE July 30/80.

0.1	6-510 W. Has	tings ot.,	DATE	3 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1
Va	ncouver, B.C		File N	0-526
SAMPLE No.	Cu %	Pb %	Zn %	Ag
SAMPLE No.	《海罗·沙尔斯特》		1964年代发展的。	oz/ton
869	.984	.20	3.77	1.67
870	.344	.02	4.16	7.0
والمرواني ومود وأما	.060	.02	1.29	. 25
871 872	.187	.02	2.43	.38
1200	[4] [1] [4] [4] [4] [4] [4] [4]		4.77	77
873	.614	.25	6.22	.71
874	1.385		THE RESERVE TO SERVE THE PARTY OF THE PARTY	5.3
875	.149	1.01	3,63	
876	.032	1.38	2.95	86
877	.020	.01	.03	.09
878	.026	.01	.01	
879	.042	.02	.01	.10
880	.001	.01	01	10
881	,045	.02	5.0	18
882	.022	.01	.16	. 10
883	.388	.43	4.58	.78
884	2.060	.02	1.46	2.42
885	.902	.02	1.63	1.21
886	.858	.01	.74	.90
887	,390	.01	.30	.82
888	1.086	.01	. 84	.83
889	.401	.01	5.40	32
800	602	01	5.69	.49

MIN-EN Laboratories

CERTIFIED BY

.003

705 WEST 15TH STREET NORTH VANCOUVER, B.C.

Certificate of Assay

TO: Electra Resources Ltd., PROJECT No. D. Stelling 616-510 W. Hastings St., DATE July 30/80.

Vancouver, B.C.

0-526

SAMPLE No.	Cu 7	PЪ	7	Zn	7	A8	Au
r konski (i						oz/ton	oz/to
891	.169	0	1	.9	6	.20	.002
892	.860	.0	1	4.0	1	.68	.002
893	.261	.0	2	11.8	0	.30	.005
894	.061	. 2	9	. 6	2	. 39	.002
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896	.042	.4	<u>0</u>			to the second	
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MIN-EN Laboratories

CERTIFIED BY .

Ment

APPENDIX III

Soil Geochem Data

"lectra Resources

PROJECT No.: __

GEOCHEMICAL A YSIS DATA SHEET

MIN - EN Laboratories Ltd.

1. lo. <u>0-606</u>

DATE: Aug. 12

6 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 Sample. Mg Cu Pb Zn Ni Co Ag Fe Hg As Min Au pph ppm ppm ppm ppm ppm ppm ppm ppm ppm	ATTENTION:	D.	Stel	ling		7	05 WEST 15t	h ST., NORTH PHONE (6	H VANCOUVE (04) 980-5814	R, B.C. V7M	1T2 C	Seed	em	<i>:</i>	1	980.
None	6					N 30	C₀ 35							70	75	80
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100E150S; 100 4 22 16 273 ; 100E250S; 27 12 78 ; 150E250S; 24 5 83 ; 150E250S; 37 9 45 ; 150E250S; 30 9 49 ; 120OS; 122 27 91 ; 120OS; 123 5 1.6 ; 120OS; 123 5 1.6 ; 120OS; 123 6 30 ; 120OS; 120OS; 130 5 1.6 ; 120OS; 120OS; 130 5 1.6 ; 120OS; 120O	. , ,2,5,0	S	3.5	1.8	A A	1.44.			 		11111	<u>. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>	1.1.1.1		_1_1_1_1_1	-1-1-1-1-
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				^					<i>.</i>		CE	RTIFIED BY_	, 7	116)	1611	<i>'</i> >

OMPA	Electra Resources
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PROJECT No.:

GEOCHEMICAL A. ALYSIS DATA SHEET

FILE No. 0-606

MIN - EN aratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C., V7M 1T2

D. .: Aug. 12

6

Stelling 1980. PHONE (604) 980-5814 ATTENTION: 60 65 30 35 40 45 50 55 70 10 15 20 25 NI Co Αs Mn Au Sample Жo Ha Cu Αa Zn daa daa mag ppm ppm Number päth DOM ppm oom DOM ppm pom 105 110 115 130 135 140 155 100 160 4,0,0,E5,0 S __1.0l0.Si ساوسه 107 -1.5l0.S samp 1.e. ,2,010,S no 2.0 400E250S 2.6 450E300N 1 1 2 5 0 N 1 2000N (40 mesh)1.5 O.N. 1.0 0.N 5.0 N 12.3 2,2 450 P50 Sci 1.000S 1,50,5 .3.6 1 1 1 2 0 0 S 450E237S 500E300N 250N 3.2 200N 150N 4.8 3,0 100N 2.6 5.0 N . . 5.0.0 E 0.0 1.6 5.0.0 E.5.0 S. 1,0 0.S. 3.0 1.50 S 22 1.8 .2.00.S 500E250s <u>sample</u> no 2,6 550E300N 4.7

CERTIFIED BY.

COMPAI

PROJECT No.: .

Electra Resources

GEOCHEMICAL . LYSIS DATA SHEET

MIN - EN Laboratories Ltd.

No. <u>0-606</u>

DATE: Aug. 12

ATTENTION:	D	. Ste	11ing			05 WEST 15	th ST., NORTE PHONE (6	H VANCOUVI (04) 980-5814	ER, B.C. V7M	1T2 ×			•		1980.
6	. 10	15	20	25	30 Ni	35 Co		45 Fe	1 50 Hg	55 As	60 Mn	65 Au	70	75	80
Sample. Number	☆ 550 m	Cu	Pb ppm	Zn ppm	ppm	ppm	Ag . ppm	ppm	ppb	ppm	ppm	ppb		,	
81 86		1	100		110	115	120	125	130	135	140	145	150	155	160
300E50	Sili	no	samp	le i	1 f 1 1		•				1111				1_1_1_1
10	0 _. S	4.1	<u>7</u>	1,22							1.1.1.1			1111	<u> </u>
1.5	0.S	, 18	9	24				<u> </u>				.1.1.1			
	0.ន, ្	<u>, , 30</u>	5	34			•	1115	1 1 1	·	<u> </u>		<u> </u>		111
	0,S, ,	no	samp	l			<u> </u>		1.1.1						
3,0,0,E,3,0	0,S, _	2_2	6	1,9			1.1.1.		-			1.1.1.1.1.		11.401	
3:5:0:E:5:0	O.N.	2.8	6						-1.1.1	. 1	11			(40m	e,s,h,)
4.5	O_iN_{i-i}	2,3	6	24	111		•		1-1-1	- 					
40	O _! N _. ,	1.5 ليني	5	1.7	l		<u> </u>	<u> </u>	.1.1.1	1111			<u> </u>		
3.5		5.5	5	3.1		_نــنــ	•			<u> </u>		11111			
3,0	0,N,	2,3	4	2,5			•	•	1111					(40m	esh)
2.5	O.N.	6.5	9	7.8	<u> </u>		•			11.1.4.	1.1.1.1	1111			eˌsˌhˌ)_
11120	O _' N _'	3.6	7	3.7			1 1 1		1111	1111	1111			<u>,(2,0,m</u>	e,s,h,)
1.5	O.N	2.9	5	4.1	1 1 1 1	1-1-1-		1.1.1	<u> </u>		1111		1111		1111
مائىيى ا	O.N	1.6		5.7	111.		-1-1-1-1							 	
1 1 15.0	N .	1 4,6	4.1	2,9	.1.1.1	1.1.1			1111	1111	111	1111	<u> </u>	1111	
3.5.0 E.0.0		2.2	2.3	T										<u>(40m</u>	eˌsˌhˌ)
3,5,0,E,5,0	S	2.2	1.2		1-1-1-1-						1.1.1		<u> </u>		
1,0	O _i S _i	5,2	9	 			•						1111		
	0.5	1.6	5	2.5			•				1111	 		(20m	e,s.h.),
1, 1, 2,0	0,S,_,	,,2,0	9	1,9		ــــــــــــــــــــــــــــــــــــــ	<u> </u>		 	<u> </u>			 		
	0,S, ,	n _i c						11.4.1.	<u> </u>		1111				
3,5,0,E,2,7	1	3,6		 			 		 		1111	 		1111	
400E30		6.1	T				•								
	O.N.	n _c	T				•		1-1-1-1		1111		 		
	0,N,	2,2					<u> </u>					 			
1,5	0,N	3,8				 	1111					 	h		
	O.N.	3.2	1	i			<u> </u>	1111				 		بين	
	N	3.2					<u> </u>	1.1.1.			 		Light		esh)
40,0,E0,0		4.5	1,, 1, 2	3,5		<u></u>	1	<u> </u>				1-4-		جمجل	
				_						רני	RTIFIED BY	· . `E	TRIC	1116	$U \supset -$
4 4											THE CALL	•		/ -	-

OMPAI	E]	ec	tra	Resourc	e s
JMAPAL					

GEOCHEMICAL & 'LYSIS DATA SHEET

FII No. 0-606

PROJECT No.: ____

MIN - EN __ocratories Ltd.

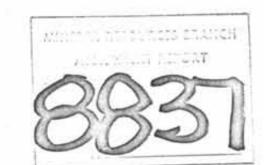
705 WEST 15th ST. NORTH VANCOUVER, B.C. V7M 1T2

Dais Aug 12

ATTENTION:	D.	Stel	ling		705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 PHONE (604) 980-5814						• .	1	L980.		
6	10	15	20		30 NI	35 co	40	45 Fe	' 50 На	55 As	60 Mn	65 Au	70	75	80
Sample. Number	MZ PMCn	Cu ppm	Pb ppm	Zn ppm	ppm	ppm	Ag ppm	ppm	ppb	ppm	ppm	ppb			
81 86		95		1 1	110		1	125	130	135	140	145	150	155	160
5,5,0,E,2,5	O _i N _i	2،8 يا د	1,6,9	1,0,8		1.1.1	•	<u> </u>			1111				
1	O.N.	1,2,0	5,5	3.7	<u> </u>		•								
1,5	O ₁ N ₁		2,1	3,1											
<u> </u>	O·Ni		1 126	<u> </u>	 	111	111	1111		1111	111			 	
50	N	4.7	1.8	3.7			•					111			
5.5.0.E0.0	1.1.1	4,0	2.0	F . •								111			
5,5,0,E5,0	S, , ,	1.7	9			<u> </u>	-111				1111	1111	<u> </u>		
1.0	0,5, ,	<u>1</u> .8	1.3	1.4		111					1111	3 1 1 1	 		
	0,S, ,	,3,6					1 1 1 1	-4-4-4-1			1111			1111	41.1.
2,0	0,S	2,4	1,9	<u>2,1</u>			•	1111	Ļ						
5,5,0,E2,2	7,S, ,	1,8	1 _{.3}	1.8								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
3.5.0 EBL	111	1.7	3.0	14.5	1.1.1.1		•			.1.1.1.1.	1111	1111	_ 	111.1.	
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				1.1.1.	1_1_1_1_		_1		111	<u></u>	1111				
	1.1.1.								1-1-1-1-1-						
11111				1111			•		1111		1111				-1-1-1-1-
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	111	 -	 		1-1-1-						 		1		
	<u> 1. j. j.</u>	حبيا	حبينا	حليب	1	1-1-1-1			<u> </u>			1		1 Chil	لىسىل
			,							CE	RTIFIED BY_	12	10	14/11	>
											_				

Legend

- Quartz-eye, Feldspar Porphyry
- Feldspar, Hornblende Porphyry
 Rare Quartz-eyes
- 3 Limestone
- ₩ Skarn
- 5 Volcanics: amygdaloidal and massive
 - 2
- Outcrop
- △ Float
- O Test pit
- Diamond Drill Hole
- / Chip Sample
- Cat Trench



Scale

Electra Resources Corp.

ST Property Geology

Mapping by: A.Glatiotis (BSc. geology)
Draughting by: A.C.G. Jay 24th/1980

