

D. L. COOKE AND ASSOCIATES LTD.

MINERAL EXPLORATION CONSULTANTS

Stamp: OCT 7 1991
M.A. \$

LOG NO: OCT 11 1991 RD.

ACTION:

ASSESSMENT REPORT NO:

RECONNAISSANCE GEOCHEMISTRY
OF THE NICK 1 - 3 CLAIMS

Mt. Milligan Area
N.T.S. 930/4W
Omineca M.D.

Latitude: 55° 03' North
Longitude: 123° 46' West

by

DAVID L. COOKE, Ph.D., P.Eng.
D. L. COOKE AND ASSOCIATES LTD.
811 - 675 West Hastings Street
Vancouver, B.C., V6B 1N2.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,708

Report Date: October 4, 1991 Work Done: June 11 - 14, 1991

Claims on which work was done:

<u>Claim</u>	<u>Units</u>	<u>Record No.</u>	<u>Month of Record</u>
Nick 1	15	12257	July
Nick 2	20	12258	July
Nick 3	15	12259	July

SUMMARY

The Nick claims are situated in the Mt. Milligan area of central B.C. The claims are underlain by Upper Triassic volcanic rocks which are permissive for the occurrence of porphyry copper-gold and gold vein deposits. Large areas of the claims are covered by glacial till and outwash deposits.

A reconnaissance soil sampling and prospecting program was conducted in the southern part of the claims to determine the usefulness of soil and rock geochemistry in locating sulphide mineralization.

It is concluded from the results that soil and rock geochemistry is useful in the southern part of the property where the relief is moderate to steep. Elsewhere soil geochemistry is of doubtful value because of extensive glacial cover. Geophysical techniques, such as magnetometer and induced polarization will be required to further evaluate these claims.

INTRODUCTION

The Nick claims were staked to cover an area underlain by Takla volcanic rocks which are favourable for the occurrence of porphyry copper-gold mineralization. The claims lie within the Philip Creek placer gold area, and therefore have potential for hosting lode gold deposits. The claims were explored during the period June 11 - 14, 1991. The results of this exploration work form the subject of this report. Exploration expenditures for the period amounted to \$5,054.68.

1991 EXPLORATION PROGRAM

The 1991 exploration program consisted of reconnaissance soil sampling and prospecting along east-west lines within a logged-off area on the Nick 2 and 3 claims. The lines were run at 200 metre intervals and control provided by compass and topofil chain. Soil samples were collected at 50 metre intervals. Mineralized rocks occurring as rubble and angular float were occasionally sampled. This exploration work was done by geologist David L. Cooke, Ph.D., P.Eng. and field assistant M. A. Cooke.

Assay results were plotted on 1:10,000 topographic maps supplied by Fletcher Challenge Ltd.

LOCATION AND ACCESS

The Nick 1 - 3 mineral claims are located in the Mt. Milligan area, approximately 70 kilometers by the main Philip Lakes road west of McKenzie, B.C. (Figure 1). The claims lie at elevations ranging from 3,300 to 4,990 feet and are accessible by good gravel roads. Topographic relief is moderate and the area consists of gently rolling hills. The local timber cover consists of fir, spruce and lodgepole pine. Several stands of timber have been harvested in the area of the claims. Logging activity has provided good road access to most of the claims.

PROPERTY AND OWNERSHIP

The Nick property consists of the Nick 1 - 3 mineral claims. The pertinent claim data is as follows:-

<u>Claim</u>	<u>Units</u>	<u>Record Number</u>	<u>Record Date</u>
Nick 1	15	12257	July 11, 1990
Nick 2	20	12258	July 11, 1990
Nick 3	15	12259	July 11, 1990

The claims are owned by David L. Cooke of Surrey, B.C.

REGIONAL GEOLOGY AND MINERALIZATION

Mt. Milligan occurs roughly at the core of an area of porphyry copper-gold mineralization which runs northwesterly from Carp Lake to the Nation River in the Omineca Mining Division of B.C. This area is part of the Quesnel Trough of Upper Triassic rocks, which extend northwesterly from the U.S. border through B.C. to the Yukon.

The Upper Triassic rocks in the Mt. Milligan area belong to the Takla Group and consist mainly of andesitic and basaltic flows and pyroclastics. Minor amounts of black argillites have been noted locally. Older metamorphic rocks of the Slide mountain and Cache Creek Groups occur to the east of the Takla rocks. The Takla volcanic rocks are intruded by calc-alkaline and alkaline plutons of Upper Triassic to Cretaceous ages.

The geology of the Mt. Milligan area is mainly obscured by glacial drift. The Mt. Milligan porphyry copper-gold deposit which is currently being developed by Placer Dome Inc. contains 385 million tons of probable ore with a grade of 0.22% copper and 0.016 ounce gold per ton. The mineralization consists of pyrite, chalcopyrite and free gold within Takla volcanic rocks and in coeval alkaline intrusions (monzonite, diorite, etc.) of Triassic age. The sulphides occur as disseminations and stockworks in both intrusive and volcanic host rocks.

The intrusions are characterized by abundant disseminations of magnetite, which make them detectable by airborne and ground magnetic surveys. Sulphides are concentrated in the intrusive margins and adjacent volcanic rocks and may be traced under the glacial cover by induced polarization methods.

In addition to the disseminated and stockwork habit of sulphide mineralization, there are fault-controlled gold veins which occur peripheral to the porphyry mineralization. The veins contain quartz, carbonate, pyrite, chalcopyrite and gold which in some cases is of economic interest.

PROPERTY GEOLOGY

The Nick claims lie approximately 15 kilometres southeast of the Mt. Milligan porphyry copper-gold deposit. A weak aeromagnetic anomaly straddles the northeast boundary of the property. The cause of this weak magnetic anomaly is obscured by unconsolidated glacial cover of undetermined thickness. The southern portion of the property is underlain by sheared augite basalts and andesites of the Takla Group. Weak pyrite mineralization and prominent pervasive carbonatization is evident in the angular float and rubble which occurs on the east central part of the Nick #2 claim. Samples of some of these rocks are anomalous in copper and gold (Appendix III).

GEOCHEMISTRY

Sample Collection and Analysis

Soil samples were taken with a shovel from depths of 15 - 30 centimetres on grid lines and secondary logging roads at 100 metre intervals. Soil samples were placed in numbered Kraft sample bags and shipped to Min-En Laboratories in North Vancouver, B.C. for analysis. Rock samples were occasionally collected in the course of soil sampling, prospecting, mapping, etc. The sample location sites and numbers are indicated on Figure 3.

The soil samples were dried at approximately 60° C and then sieved to minus 80 mesh. A 1.0 gram sample was then digested with HNO₃ and HClO₄ mixture. These samples were then diluted to standard volume after cooling, and the solutions analyzed for 30 elements by computer operated Jarrell Ash 9000 Induction Coupled Plasma (ICP) Analyzer. Gold was determined on separate solutions by atomic absorption spectrophotometry. Rock samples were crushed and treated in a similar geochemical fashion.

Discussion of Results

The analytical results are presented in Appendix III. Significant values for gold (+10 ppb) are plotted on Figure 3. A cluster of anomalous gold values in soil and gold and copper in rocks occur near the eastern boundary of the Nick #2 claim. Although there are a few high values for silver and arsenic, they do not appear to be coincident with high gold or copper values. Because of the small sample population, statistical treatment of the data was not attempted. By inspection and experience, the following values were assumed to be anomalous:

gold	:	+ 10 ppb
silver	:	+ 1.0 ppm
arsenic	:	+ 20 ppm
copper	:	+ 100 ppm

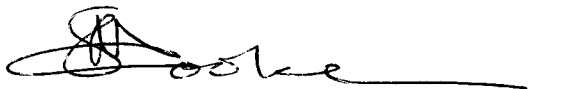
CONCLUSIONS AND RECOMMENDATIONS

The reconnaissance soil sampling and prospecting program revealed the presence of a weakly anomalous area for copper and gold on the Nick property. Moderate amounts of pyrite mineralization occur in sheared and chloritized volcanic rocks underlying the property. More detailed soil geochemistry is warranted over the rest of the property.

A program of magnetometer and induced polarization is also recommended to define zones of intrusion and strong sulphide mineralization which may be present in the soil sampled area.

Report by

D. L. COOKE AND ASSOCIATES LTD.

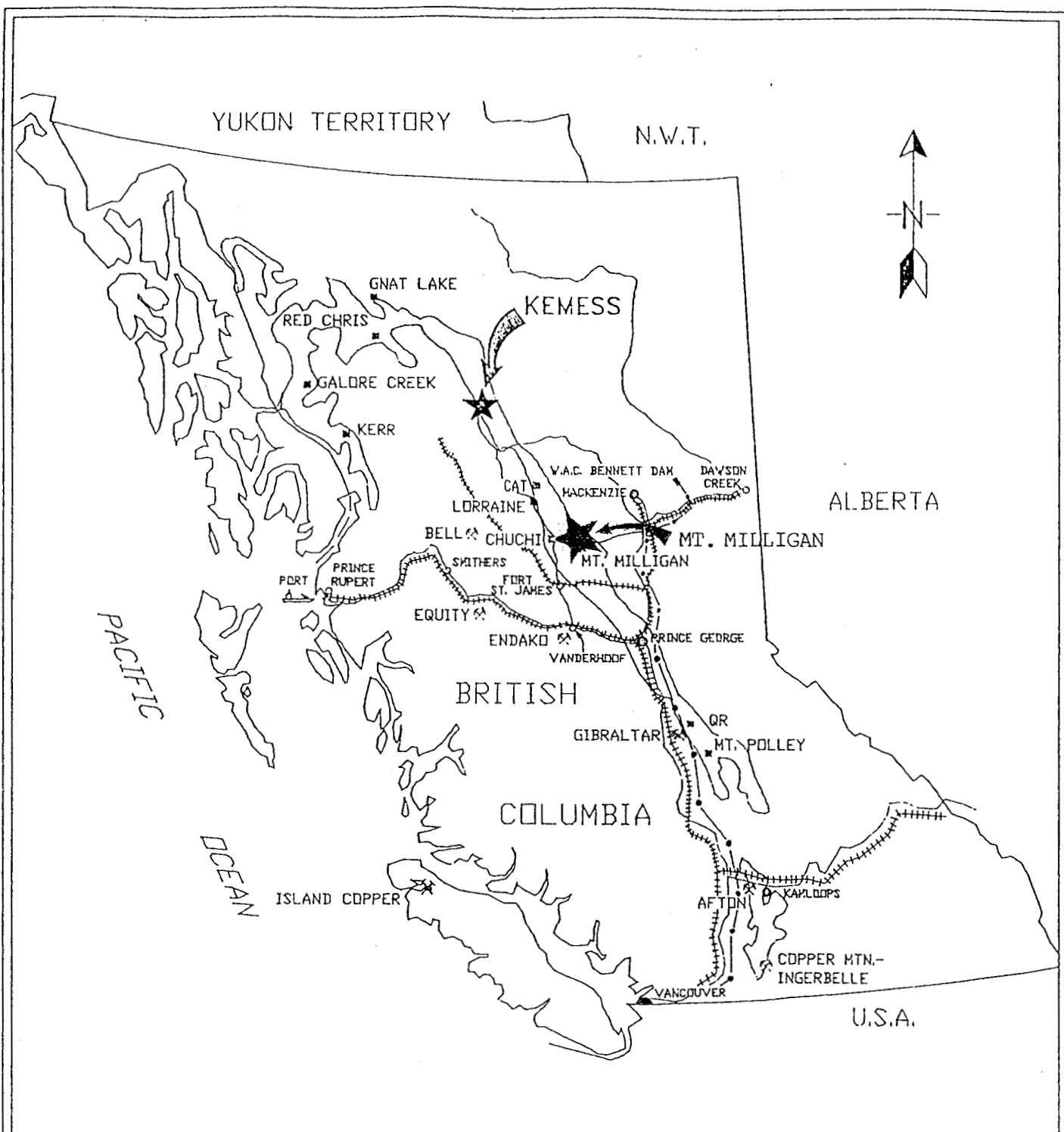


David L. Cooke, Ph.D., P.Eng.
October 4, 1991



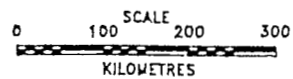
REFERENCES

- Cooke, D. L., 1991. Reconnaissance Geology and Geochemistry of the Lac 1 - 4 Claims, Mt. Milligan Area, 9 pp.
- Geophysical Paper, 1961. Philip Lakes, British Columbia, Map 1573G, Geological Survey Canada.
- Geophysical Paper, 1961. Wittsichica Creek, British Columbia. Map 1584G, Geological Survey Canada.
- Muller, J. E., 1961. Geology, Pine Pass, British Columbia, Map 11 - 1961, Geological Survey Canada.
- Rice, H. M. A., 1948. Smithers - Fort St. James, British Columbia, Map 971A, 1 inch to 8 miles.

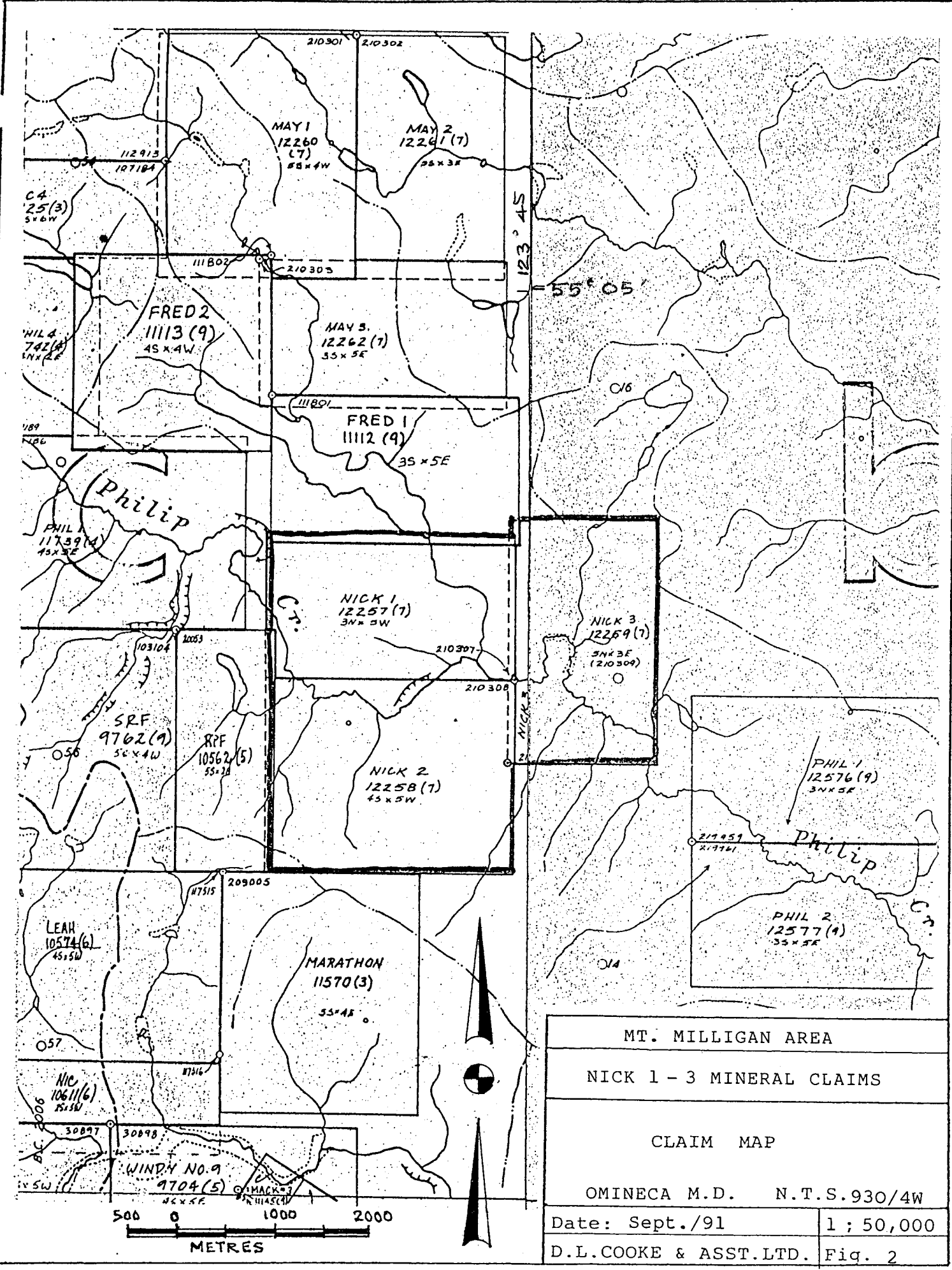


LEGEND

- ROAD
- +++ RAILWAY
- .- MAJOR POWER LINE
- QUESNEL TROUGH
- ⊗ PRODUCING PORPHYRY MINES
- COPPER AND/OR GOLD DEPOSIT



MT. MILLIGAN AREA		
D. L. COOKE & ASSOCIATES LTD.		
NICK 1 - 3 MINERAL CLAIMS		
LOCATION MAP		
OMINECA M.D.		N.T.S. 930/4W
SCALE: AS SHOWN	PROJ: ProComp GeoDraft Ltd.	FILE:
DATE: SEPT. 90	REVISED:	FIGURE: 1



MT. MILLIGAN AREA	
NICK 1 - 3 MINERAL CLAIMS	
CLAIM MAP	
OMINECA M.D. N.T.S. 930/4W	
Date: Sept./91	1 : 50,000
D.L.COOKE & ASST.LTD.	Fig. 2

APPENDIX I

STATEMENT OF EXPENDITURES

NICK 1 - 3 MINERAL CLAIMS
OMINECA M.D.

SALARIES

D.L.Cooke, Geologist: June 11 - 14, 1991		
4 days @ \$350/day	\$1,400.00	
M.A.Cooke, Field Asst: June 11 - 14, 1991		
4 days @ \$150/day	<u>600.00</u>	2,000.00

GEOCHEMISTRY

Analyses: 75 Soil & Rock Samples @ \$12/ea.	\$ 900.00	
Sample Bags, Flagging, etc.	<u>75.00</u>	975.00

DOMICILE

Room and Board: 10 man days @ \$60/day	\$ 600.00	
Miscellaneous	<u>79.36</u>	679.36

TRANSPORTATION

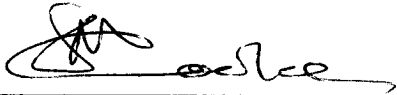
Truck Rental: 5 days @ \$60/day	\$ 300.00	
Mileage: 1,277 km @ \$0.20/km	255.40	
Gasoline, etc,.....	<u>69.92</u>	625.32

INTERPRETATION AND REPORT

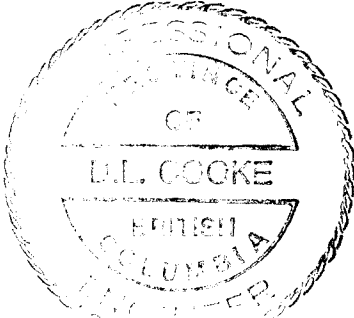
D.L. Cooke: 1 1/2 days @ \$350/day	\$ 525.00	
Drafting and Reproduction	150.00	
Typing and Photocopies	<u>100.00</u>	775.00

TOTAL EXPENDITURES \$5,054.68

Prepared by:
D. L. COOKE AND ASSOCIATES LTD.



David L. Cooke, Ph.D., P.Eng.
October 4, 1991



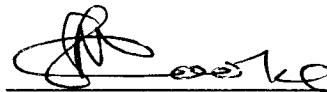
D. L. COOKE AND ASSOCIATES LTD.
MINERAL EXPLORATION CONSULTANTS

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, DAVID LAWRENCE COOKE, of the Municipality of Surrey in the Province of British Columbia, hereby certify:

1. That I am a Consulting Geologist, residing at 10667 Arbutus Wynd, Surrey, B.C., V3R 0B5, with a business office at 811 - 675 West Hastings Street, Vancouver, B.C., V6B 1N2.
2. That I graduated with a B.Sc. degree in Geology from the University of New Brunswick in 1959, and with M.A. and Ph.D. degrees in Geology from the University of Toronto in 1961 and 1966 respectively.
3. That I have practised my profession as an exploration geologist from 1959 to the present time in Canada, the U.S.A., Mexico, the Caribbean and South America.
4. That I am a Registered Member of the Association of Professional Engineers of the Province of British Columbia.
5. That I personally performed the exploration work on Nick 1-3 claim described herein.
6. And that I am the author of this report on the Nick 1 - 3 mineral claim, dated October 4, 1991.



DAVID L. COOKE, PH.D., P.ENG.

October 4, 1991



APPENDIX III

ANALYTICAL RESULTS

COMP: D.L. COOKE & ASSOC.

PROJ: NICK GROUP

ATTN: D.L. COOKE

MIN-EN LABS — ICP REPORT

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

(604)980-5814 OR (604)988-4524

FILE NO: 1V-0580-SJ1+2

DATE: 91/06/27

* SOIL * (ACT:F31)

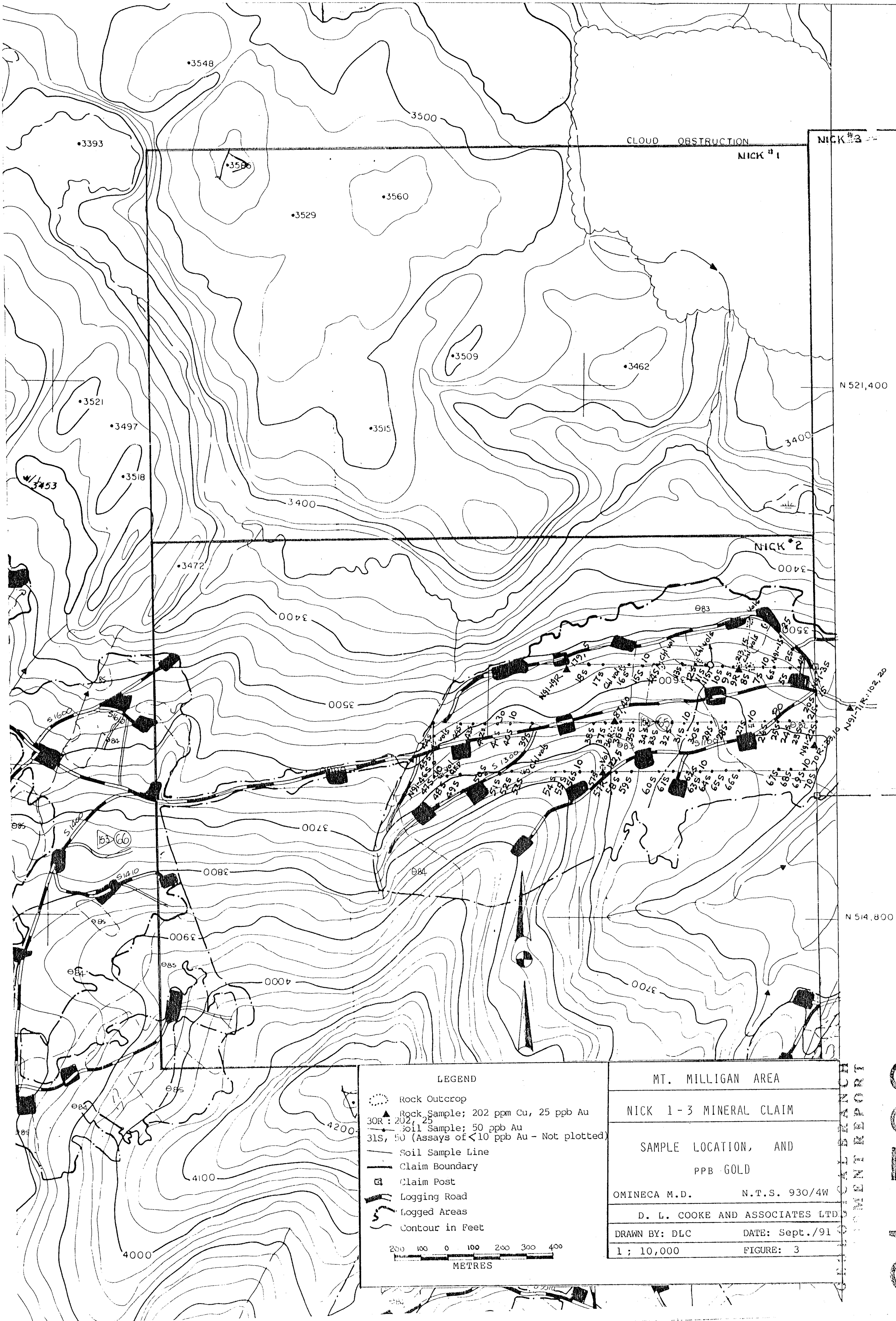
SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-WET PPB
N91-01S	1.1	10090	1	21	68	.4	5	7610	.1	13	35	24340	710	23	6340	937	1	130	16	1030	15	1	13	4	1	70.0	51	2	1	2	32	25
N91-02S	1.1	18210	1	14	112	.4	7	10750	.1	15	40	31620	1010	20	9850	684	1	370	18	1310	9	1	27	2	1	94.7	65	3	1	4	50	5
N91-03S	1.2	16000	1	6	62	.1	7	7300	.1	11	25	32160	760	11	6940	301	1	420	12	1380	9	1	20	1	1	98.5	51	3	1	3	45	5
N91-04S	1.3	20630	1	5	104	.2	6	7610	.1	12	38	28970	900	14	9590	357	1	470	20	1020	5	1	21	1	1	94.4	56	4	1	4	51	5
N91-05S	1.0	22840	1	7	79	.3	8	8100	.1	12	34	34690	890	18	7860	295	1	490	15	1300	6	1	22	1	1	99.5	67	3	1	4	50	5
N91-06S	1.2	20070	4	5	169	.5	6	7450	.1	14	38	39180	830	14	6130	691	1	530	12	4370	9	1	24	1	1	102.7	84	3	1	4	52	5
N91-07S	1.2	20000	1	4	77	.2	7	7310	.1	13	35	35490	800	18	7410	348	1	120	15	1540	7	1	21	1	1	100.0	66	3	1	4	50	10
N91-08S	1.2	18040	1	1	73	.1	7	7200	.1	11	30	30930	640	9	6340	273	1	120	12	1360	4	1	20	1	1	95.9	49	3	1	4	49	5
N91-09S	.9	17040	1	1	72	.1	6	7190	.1	12	23	30240	700	12	6880	422	1	130	11	1300	3	1	19	1	1	97.8	60	2	1	3	46	5
N91-10S	1.1	17880	1	1	75	.2	6	7130	.1	11	29	30860	680	12	7020	269	1	110	12	800	8	1	18	1	1	88.6	46	4	1	4	44	5
N91-11S	1.2	18230	1	1	72	.1	6	7050	.1	11	23	30710	670	11	5520	414	1	480	9	1360	6	1	20	1	1	93.1	53	3	1	3	43	5
N91-11ST	.9	14830	3	1	115	.2	6	10480	.1	19	37	34570	920	9	8130	2017	1	110	19	1240	10	1	28	1	1	97.5	69	2	1	4	48	5
N91-12S	1.1	17560	1	1	69	.2	7	7220	.1	11	29	30670	780	10	7510	278	1	120	12	1120	6	1	20	1	1	89.7	51	3	1	3	45	5
N91-13S	1.1	18640	17	1	86	.2	7	7280	.1	12	36	32030	830	15	8080	311	1	130	17	1630	7	1	21	1	1	91.7	53	3	1	3	45	5
N91-14S	1.1	18920	2	1	84	.1	7	7280	.1	13	34	32080	820	13	7670	365	1	120	16	1740	4	1	21	1	1	94.2	50	4	1	3	47	5
N91-15S	1.4	17100	1	1	72	.1	7	6990	.1	11	39	28620	740	9	7440	294	1	110	11	1250	8	1	18	1	1	89.1	48	4	1	3	47	10
N91-16S	1.2	19190	3	1	85	.2	7	8230	.1	15	50	33570	1040	13	9200	505	1	140	19	1190	5	1	21	1	1	97.9	56	3	1	4	53	5
N91-17S	.9	17540	1	1	89	.1	6	6890	.1	11	25	32000	640	14	6340	261	1	110	12	1020	5	1	17	1	1	104.3	48	3	1	4	50	5
N91-18S	1.0	17970	3	1	82	.3	5	7300	.1	12	44	32850	790	14	7850	392	1	410	17	900	7	1	18	1	1	96.7	56	3	1	4	52	5
N91-20S	.9	17100	1	1	105	.3	5	6490	.1	9	37	23860	690	10	6160	248	1	130	12	660	4	1	17	1	1	79.3	55	3	1	3	39	15
N91-23S	1.0	17450	4	1	71	.1	6	7190	.1	10	29	30870	640	11	7550	276	1	110	13	1230	5	1	19	1	1	94.6	49	3	1	3	45	5
N91-24S	1.0	20490	6	1	86	.5	7	7390	.1	13	48	34280	890	14	8370	320	1	400	16	1130	5	1	19	1	1	100.4	59	3	1	4	51	5
N91-25S	1.0	21920	4	1	92	.5	7	8330	.1	15	54	34920	900	16	10110	394	1	150	21	1310	4	1	21	1	1	102.2	58	3	1	4	58	80
N91-26S	1.2	23870	2	1	99	.3	7	8370	.1	15	64	33720	1050	16	10480	599	1	140	25	1050	6	1	21	1	1	96.4	62	4	1	4	63	5
N91-27S	1.2	17720	1	1	84	.1	7	7220	.1	11	24	23010	840	9	6200	334	1	140	12	740	6	1	23	1	1	86.6	42	4	1	3	39	10
N91-28S	1.2	19160	1	1	61	.2	7	7340	.1	11	33	31110	740	12	6810	243	1	120	14	1000	6	1	21	1	1	95.4	46	4	1	4	50	5
N91-29S	1.1	17170	1	1	66	.2	7	7240	.1	11	29	28350	630	9	6270	294	1	490	12	1570	4	1	21	1	1	90.8	42	3	1	3	43	5
N91-30S	1.2	18400	1	1	84	.2	7	6990	.1	9	21	27560	640	12	5700	248	1	130	10	1090	6	1	18	2	1	83.1	49	4	1	3	39	5
N91-31S	1.0	18550	1	1	63	.3	7	7220	.1	12	35	31200	680	12	8610	297	1	120	17	1460	5	1	18	1	1	94.2	50	3	1	4	49	10
N91-32S	1.0	13420	1	1	63	.2	6	8250	.1	9	25	23850	660	9	8110	301	1	130	13	1150	4	1	18	1	1	75.2	41	4	1	3	41	5
N91-33S	1.0	15740	3	13	54	.3	5	6430	.1	11	33	31850	620	21	8000	281	1	110	12	1000	11	1	14	1	1	90.5	53	3	1	3	44	5
N91-34S	.6	14570	4	2	51	.2	5	6680	.1	11	34	30050	710	12	7750	301	1	110	14	1200	5	1	15	1	1	88.6	44	2	1	3	46	5
N91-35S	.9	18200	1	2	100	.2	7	8730	.1	13	40	32410	770	15	8980	376	1	140	18	1730	3	1	22	1	1	94.2	69	3	1	3	50	5
N91-36S	1.5	21870	1	4	88	.2	10	9060	.1	15	40	35640	1580	17	10710	392	1	520	13	1420	5	1	26	1	1	105.0	80	3	1	4	48	5
N91-37S	1.2	19270	2	2	76	.3	8	8910	.1	13	39	33740	1000	15	9640	403	1	160	17	1760	8	1	25	1	1	98.8	58	4	1	4	53	5
N91-38S	1.2	22610	1	2	107	.5	6	7280	.1	15	70	37780	1340	17	9870	761	1	120	24	1230	8	1	21	1	1	102.8	82	4	1	4	59	5
N91-39S	.8	18900	2	1	76	.2	6	7000	.1	12	32	31720	660	16	8690	319	1	130	15	980	7	1	18	1	1	93.6	56	2	1	4	52	5
N91-40S	.9	19100	1	1	92	.3	7	9190	.1	15	47	32380	960	18	10470	559	1	160	24	1030	8	1	23	1	1	94.9	72	3	1	4	56	10
N91-41S	.8	17200	3	1	107	.2	6	7870	.1	12	32	31760	810	14	8840	322	1	130	18	980	8	1	18	1	1	98.9	82	4	1	4	61	30
N91-42S	1.2	20660	1	1	98	.3	6	10620	.1	14	66	35200	900	19	9260	536	1	400	18	550	9	1	26	1	1	106.6	65	4	1	4	63	5
N91-43S	1.3	20640	3	1	82	.5	7	6890	.1	14	45	35740	860	20	10000	383	1	650	20	1080	11	1	16	1	1	101.2	77	4	1	4	60	5
N91-44S	.8	17480	1	1	68	.3	5	5940	.1	11	28	27890	910	22	8640	344	1	110	11	810	7	1	15	1	1	80.9	74	3	1	3	47	5
N91-45S	.9	15310	1	1	71	.2	4	5500	.1	10	28	31370	700	15	6330	248	1	90	11	1770	6	1	14	1	1	88.0	56	2	1	3	51	5
N91-46SA	1.0	14370	4	1	51	.3	5	5170	.1	11	27	29700	620	13	5010	252	1	80	10	950	5	1	13	1	1	92.5	65	3	1	3	47	5
N91-46SB	1.1	21930	7	1	76	.2	8	7200	.1	17	51	40850	1080	20	12340	444	1	110	25	1540	11	1	18	1	1	114.3	71	4	1	5	84	5
N91-47S	.9	21770	1	1	84	.3	7	7210	.1	16	52	40350	880	21	10490	473	1	120	16	1210	8	1	19	1	1	110.0	78	4	1	4	59	10
N91-48S	1.3	17880	1	1	66	.2	7	6780	.1	13	34	34540	960	10	10420	311	1	100	17	1470	7	1	19	1	1	105.0	70	4	1	5	94	5
N91-49S	1.2	16170	3	1	59	.1	5	7100	.1	11	57	32830	850	10</																		

COMP: D.L. COOKE & ASSOC.
 PROJ: NICK GROUP
 ATTN: D.L. COOKE

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-0580-SJ3
 DATE: 91/06/27
 * SOIL * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-WET PPB
N91-62S	.9	19410	1	1	78	.3	6	5980	.1	13	35	38410	620	21	8320	286	1	100	16	2590	8	1	16	1	1	97.9	68	2	1	3	49	5
N91-63S	.9	22200	1	1	70	.4	6	7310	.1	13	38	36860	680	16	7460	282	1	120	17	1170	5	1	18	1	1	97.6	60	2	1	4	49	10
N91-64S	1.3	23940	9	1	91	.4	8	8050	.1	15	49	39210	910	17	9450	332	1	150	20	1570	5	1	24	1	1	109.6	65	3	1	4	57	5
N91-65S	1.4	18690	3	1	81	.1	7	7210	.1	11	36	28310	920	12	8060	360	1	470	13	830	8	1	22	1	1	87.3	55	4	1	4	45	5
N91-66S	1.3	25410	1	1	82	.4	10	8290	.1	17	41	38150	810	16	9210	371	1	160	26	990	4	1	27	1	1	106.8	63	3	1	4	60	5
N91-67S	1.2	23810	1	1	82	.2	8	7110	.1	12	33	31670	990	16	7860	312	1	160	16	760	5	1	23	1	1	98.2	65	4	1	4	48	5
N91-68S	1.1	19320	1	1	91	.2	5	5670	.1	9	30	25450	660	9	5040	187	1	120	9	710	6	1	18	1	1	83.8	45	4	1	3	40	5
N91-69S	1.2	20310	1	1	77	.3	6	7160	.1	13	34	33270	880	18	8020	339	1	140	16	1240	7	1	18	1	1	94.4	71	4	1	4	46	10
N91-70S	.9	18890	1	1	81	.2	7	8310	.1	13	37	33830	810	14	9420	327	1	150	16	1420	7	1	21	1	1	104.1	52	3	1	4	49	5



GEOLOGICAL BRANCH
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