

GEOCHEMICAL AND GEOPHYSICAL REPORT

WOODIER CLAIM GROUP

Record No. 699(8) to 702(8); 698(9); 729(9) to 739(9); 1830(9) to 1835(9); 1405(7)

STEWART AREA, B.C.

Skeena Mining Division

NTS 104 B/1E

lat. $56^{\circ} 04'N$ long. $130^{\circ} 03'W$

Owners:

Ocean Home Exploration Ltd.
Box 3174, Station B
Calgary, Alberta
T2M 4L7

and

Dianne and Ulrich Kretschmar
R.R.#1
Severn Bridge, Ontario
POE 1N0

Operator:

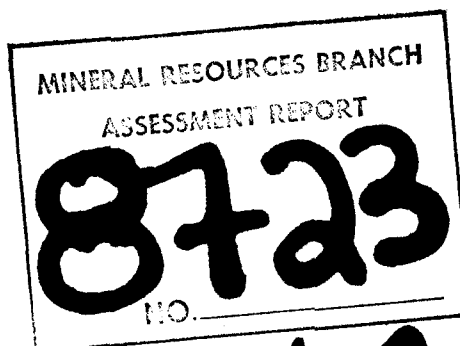
HIMCO
3301 C Street - #505
Anchorage, Alaska
99503

Date Submitted:

October 2nd, 1980

Contractors and Authors:

Ulrich & Dianne Kretschmar
R.R.#1,
Severn Bridge, Ontario
POE 1N0



Part 1
of 2

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INTRODUCTION

The Woodier group consists of 26 claims. The property includes the Woodbine and Premier Extension Reverted Crown Grants on which the work described in this report was carried out. These claims are bounded on the east by the British Silbak Premier property and on the north and west by the Azure Resources New Indian property. The claims lie on the southern flank of Indian Hill between 330 meters and 660 meters in elevation, about 13 km. north of Stewart (Fig.1).

Access is via the Woodbine foot trail which leads south from mile 15.25 on the Granduc Road. The muckpile at No.2 adit is a suitable helipad.

The terrain is steep and heavily vegetated with hemlock, spruce and underbrush consisting mainly of blueberry bushes and devil's club.

Current owners are Dianne and Ulrich Kretschmar, R.R.#1, Severn Bridge Ontario, POE 1N0 and Ocean Home Exploration Ltd. of Calgary. HIMCO, 3301 C St., Suite 505, Anchorage, Alaska, 99503 is the operator. Economic assessment of the property is being carried out. The current phase consists of soil and magnetometer surveys on a grid of cut lines.

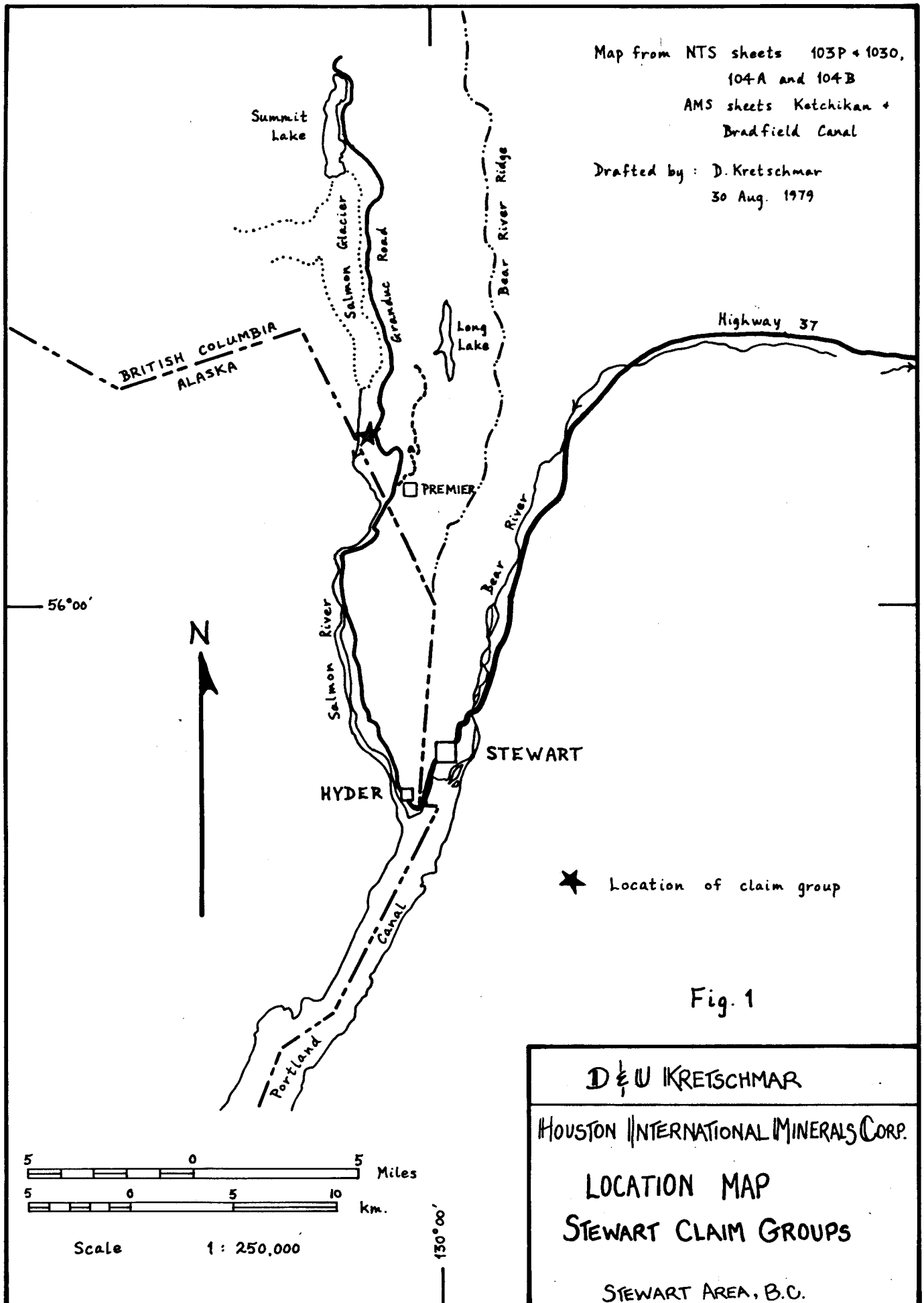
HISTORY

Work on the Woodbine group started in 1920 and was carried out intermittently by a succession of companies until 1936.

Surface mineralization in a silicified and pyritized zone occurs in two main areas and there are scattered minor showings. Tunnels were driven on the main mineralized areas and the silicified and pyritized zones were explored by diamond drilling, trenching and stripping but only a few small isolated lenses of significant mineralization were found. The last recorded

Map from NTS sheets 103P + 1030,
104A and 104B
AMS sheets Ketchikan +
Bradfield Canal

Drafted by : D. Kretschmar
30 Aug. 1979



History (continued)

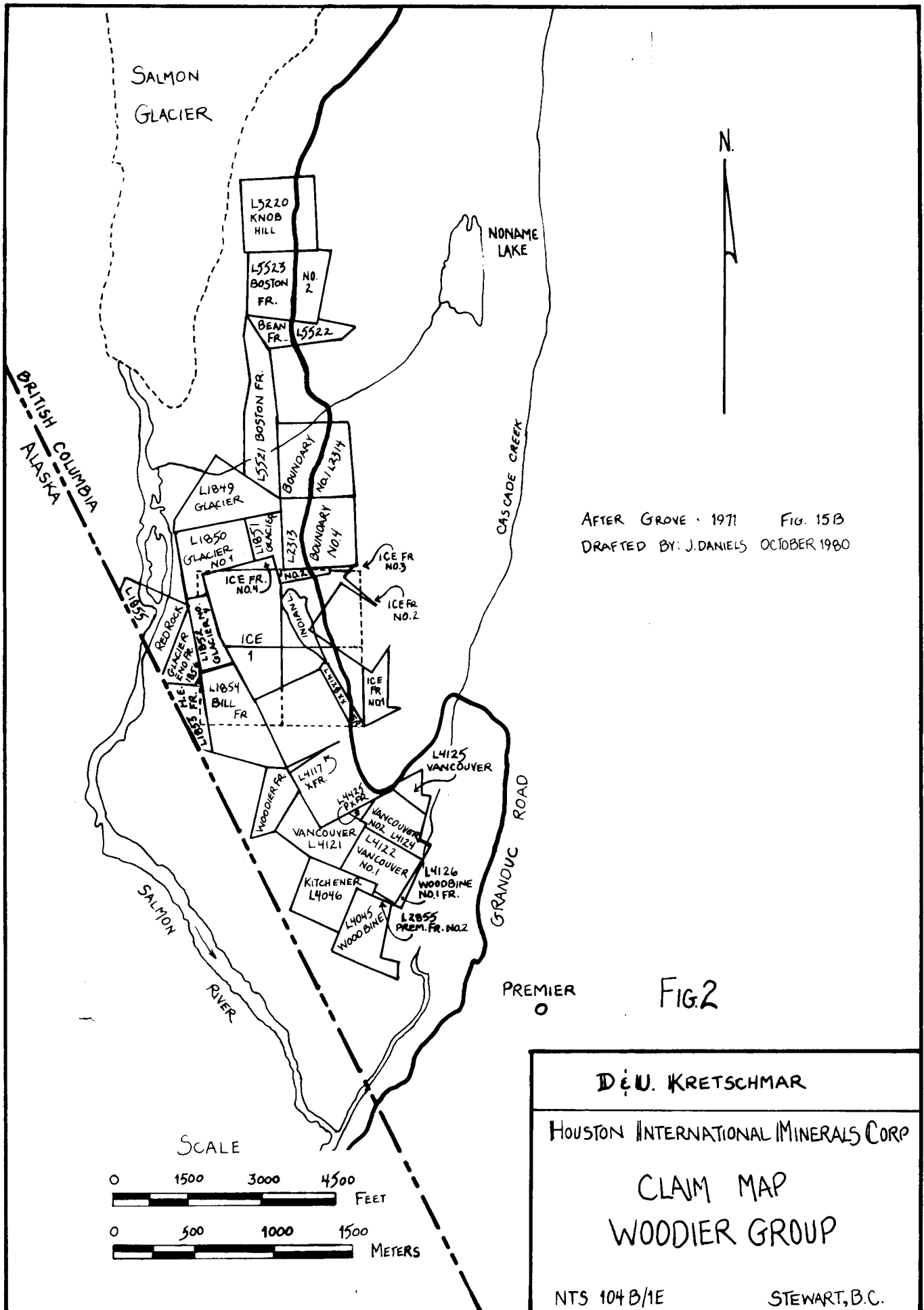
work on the property was in 1936 by the Premier Extension Gold Mining Company.

The best assays reported in the literature are as follows:

1. From an open cut above the No. 1 tunnel, 35 ft. of pyritized volcanics with a 15 ft. portion in the center mineralized with sphalerite and galena, assaying \$15.00 per ton in gold and silver (B.C. Minister of Mines Report for 1925, p.A100).
2. The lower adit is about 3000 ft. long and discloses a large area, 900 ft. long in a northeasterly direction and about 400 ft. wide, that is mainly silicified and pyritized porphyry. Selected samples are reported to contain high values in gold. (G. Hanson, 1935, Portland Canal area, B.C.; Geological Survey of Canada, Memoir 175, p.170).
- ✓ 3. At the upper adit on the Premier Extension workings, 9 ft. of mineralization assayed 0.02 oz. per ton gold, 0.3 oz per ton silver, 0.6% zinc and trace lead. (B.C.Minister of Mines Report for 1929, p.C108).

LAND

The Woodier Group of 26 Reverted Crown Granted mineral claims and located claims consists of the following lots and claims, as shown on Fig.2:



SALMON
GLACIER

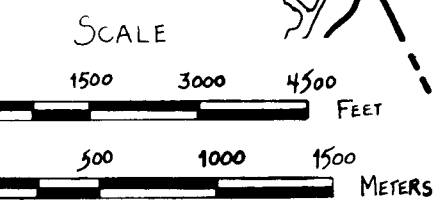
NONAME
LAKE

BRITISH COLUMBIA
ALASKA

CASCADE CREEK

N.

AFTER GROVE · 1971 FIG. 15B
DRAFTED BY: J. DANIELS OCTOBER 1980



PREMIER

FIG. 2

D.E.U. KRETSCHMAR
HOUSTON INTERNATIONAL MINERALS CORP
CLAIM MAP
WOODIER GROUP
NTS 104B/1E STEWART, B.C.

Land (continued)

<u>RECORD NO.</u>	<u>LOT</u>	<u>CLAIM NAME</u>	<u>HECTARES</u>	<u>RECORDING DATE</u>
699 (8)	4124	Vancouver No. 2	10.85	30 AUG.1978
	4125	Vancouver No. 3	3.14	
	4425	P.X. Fr.	0.96	
700 (8)	4122	Vancouver No. 1	11.57	"
	4126	Woodbine No. 1 Fr.	0.60	
701 (8)	4046	Kitchener	12.91	"
	4121	Vancouver	11.88	
702 (8)	4045	Woodbine	13.03	"
1405 (7)	2855	Premier Fr. No. 2	0.04	11 JULY 1979
698 (9)	1853	H.E.Fr.	5.18	5 SEPT. 1978
	1854	Bill Fr.	18.48	
	4117	X Fr.	0.69	
729 (9)	4128	XX Fr.	3.53	"
730 (9)	1849	Glacier	18.78	"
731 (9)	1850	Glacier No. 1	14.56	"
732 (9)	1851	Glacier No. 2	8.98	"
733 (9)	1852	Glacier No. 4	6.94	"
	1855	Red Rock	11.48	
	1856	Glacier End Fr.	6.47	
734 (9)	2313	Boundary No. 4	20.90	"
735 (9)	2314	Boundary No. 1	20.67	"
736 (9)	3220	Knob Hill	20.90	"
737 (9)	5521	Boston Fr.	16.52	"
738 (9)	5522	Bean Fr.	8.54	"
739 (9)	5523	Boston Fr. No. 2	20.04	"

Land (continued)

1830 (9)	-	Ice 1 (4 Units)	18 SEPT. 1979
1831 (9)	-	Ice Fr. No. 1	"
1832 (9)	-	Ice Fr. No. 2	"
1833 (9)	-	Ice Fr. No. 3	"
1834 (9)	-	Ice Fr. No. 4	"
1835 (9)	-	Woodier Fr.	"

The geochemical and geophysical surveys were carried out on mineral claims with record No. 700(8), 701(8), 702(8) and 1405(7).

GEOCHEMICAL SURVEYSampling Procedure

A 15 to 30 cm deep hole was dug at each sample location with a grub hoe. B horizon material was collected wherever possible or C horizon if there was no B. Generally soils are poorly to moderately well developed. No samples were collected on bedrock, in swamps or in areas of contamination such as mine dumps, garbage dumps or old buildings.

Analytical Techniques

Soil samples were sent to Chemex Laboratories, 212 Brooksbank Avenue, North Vancouver V7J 2C1 for analysis. The samples were dried, sieved and the -80 mesh fraction was dissolved using perchloric-nitric acid extraction. The diluted solutions were analyzed by Atomic Absorption Spectrophotometry for copper, lead, zinc and silver. Gold was extracted from the samples by the fire assay technique and concentrations were determined by AA.

Interpretation of Results

Figure 3 shows locations for analyses presented in Appendix 1.

Figures 3a to 3e present results for the different elements.

The anomalies can be grouped into two main types: 1) Pb-Zn with occasional Ag and 2) Cu-Pb-Zn-Ag.

- 1) Pb, Zn anomalies occur almost exclusively along the contacts of Hyder Quartz Monzonite dikes or over the dikes themselves. Probably small amounts of base metals have been sweated from the country rock during intrusion of the dike.

Examples are: L3N, 350W
 L1N, 50W, 350W, 450W, 150W
 L2S, 250W
 L4S, 100 to 200 W

- 2) Anomalous Cu in the soil, either as a single element or in a multi-element anomaly indicates base metal mineralization. The main area of anomalous soils L6S, 200 to 300W coincides with silicified, pyritized and brecciated feldspar, hornblende and quartz porphyritic andesite flows containing interstitial pyrite, sphalerite, galena, chalcopyrite and minor tetrahedrite. This area was explored in the past by surface trenches.

There are several other areas with one or two element anomalies for which no ready explanation is apparent. One of these, e.g. L5S, 200W is probably spurious. At L1S, 150E a single element Cu anomaly has no known mineralization associated although the area is underlain by silicified porphyritic andesite.

In conclusion, soil geochemistry works very well in the Woodbine area in delineating geological features and mineralization. Apparently spurious

Geochemical Survey - Interpretation of Results (continued)

anomalies are few and downslope creep and element transport has been minimal. Copper is the best indicator element for mineralization even though there is less than 1% Cu in the ore.

MAGNETOMETER SURVEY

A magnetometer survey over about 3 line km of grid cut on the Woodier property was carried out by Jane Wegenast on the 20th and 26th of August, 1980.

Instrumentation

The instrument used was a Geometrics Model G816 proton precession magnetometer.

Correction of Data

The base level reading was set at 56,000 gamma total field intensity. Two base stations were established and diurnal drift curves were plotted from hourly readings at the base station.

The readings at survey stations are corrected for diurnal drift. Results are presented as Figure 4.

Interpretation

The magnetometer survey readily delineated three northeast trending Tertiary Hyder Quartz Monzonite dikes. The wider the dikes, the wider the area of anomalously high magnetometer readings and the higher the readings. Maximum response is on the order of 500 gamma in a total field ranging from 57,200 to about 57,800 gamma. The smaller dikes give maxima of about 200 to 300 gamma.

There is no significant magnetic response from known mineralization as at L6S, 250W.

Magnetometer Survey - Interpretation (continued)

In summary and conclusion, the magnetometer survey on the Woodier property was useful in delineating granitic dikes but known mineralization gave no response.

STATEMENT OF EXPENDITURES - WOODIER GROUP

1)	<u>Contract Fees:</u>		
	Ulrich Kretschmar	3 days @ \$180.00/day - Aug.4,16,17	\$ 540.00
	Marc Beaudoin	4 days @ \$65.85/day - Aug.12,13,14,20	263.39
	Dave Saunders	2 days @ \$48.53/day - Aug. 12, 15	97.06
	Tracy Armstrong	2 days @ \$46.41/day - Aug.8,9,12-15,23	324.88
	Jane Wegenast	7.5 days @ \$43.12/day - Aug.12-16,20,26,29	323.42
2)	<u>Food and Accommodation:</u>	23.5 man-days @ \$20.00/day	470.00
3)	<u>Transportation:</u>	Truck Rental	94.22
4)	<u>Supplies & Equipment:</u>		315.53
5)	<u>Maps, Publications:</u>		50.40
6)	<u>Communication</u>		44.80
7)	<u>Portion of travel expenses:</u>	Vancouver - Stewart	106.80
8)	<u>Chemical Analyses:</u>		
	Soil preparation and anlysis for Cu,Pb, Zn, Ag - 266 samples @ \$4.25		1,130.50
	Analysis for Au - 100 samples @ \$4.50		450.00
			<hr/>
		TOTAL EXPENDITURES	\$ 4,211.00
			<hr/>

Dianne Kretschmar

 Dianne Kretschmar

STATEMENT OF QUALIFICATIONS

I, Ulrich Kretschmar, of R.R. #1, Severn Bridge, Ontario POE 1N0
certify that:

1. I am a mining exploration geologist and Fellow of the Geological Association of Canada.
2. I am a graduate of McMaster University (B.Sc., 1966; M.Sc., 1968), McGill University and University of Toronto (Ph.D., 1973).
3. I have worked as an exploration geologist in Canada and Alaska for Cominco Ltd.; Watts, Griffis and McOuat Ltd.; Resource Associates of Alaska and others.
4. I worked on the Woodier property during July, August and September 1980.

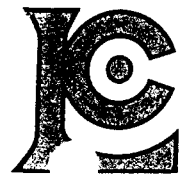
Dianne Kretschmar
for Ulrich Kretschmar, Ph.D.

Oct. 2/1980

Premier, B.C.

APPENDIX

Analytical Results



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604)984-0221
 TELEX: 043-52597

ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

C : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010064-001-A
 INVOICE # : 38510
 DATE : 04-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920001	6	6	18	0.1
7920002	8	2	22	0.1
7920003	2	20	18	0.1
7920004	2	4	16	0.1
7920005	2	6	14	0.1
7920006	9	26	152	0.2
7920007	14	96	150	14.0
7920008	6	8	32	1.2
7920009	6	13	34	0.6
7920010	10	26	60	3.0
7920011	2	1	6	0.4
7920012	2	1	6	0.1
7920013	2	1	6	0.1
7920014	16	1	24	0.1
7920015	6	4	13	0.4
7920016	6	1	12	0.2
7920017	4	46	10	0.6
7920018	8	24	54	0.1
7920019	4	4	8	0.1
7920020	2	1	10	0.1
7920021	4	1	10	0.1
7920022	10	1	28	0.1
7920023	6	1	12	0.1
7920024	24	10	20	1.0
7920025	12	1	26	0.3
7920026	10	2	30	0.1
7920027	16	4	30	0.3
7920028	6	12	26	0.4
7920029	2	30	16	0.1
7920030	13	1	14	0.4
7920031	6	2	10	0.1
7920032	12	2	24	0.1
7920033	26	1	8	0.1
7920034	2	2	12	0.1
7920035	14	4	20	1.2
7920036	10	1	10	0.2
7920037	18	134	144	2.8
7920038	14	32	66	1.6
7920039	16	160	215	4.6
7920040	18	52	90	2.2

Certified by *Hartmann*





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CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010064-002-A
 INVOICE # : 38510
 DATE : 04-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920041	16	4	22	0.1
7920042	110	130	240	3.2
7920043	16	14	42	1.0
7920044	50	98	310	1.6
7920045	36	152	154	3.8
7920046	40	76	184	5.2
7920047	10	12	38	0.2
7920048	6	6	14	0.1
7920049	26	30	106	0.6
7920050	14	62	144	1.2
7920051	4	6	10	0.1
7920052	4	4	12	0.1
79 053	42	83	360	3.0
7920054	N.S.S.	N.S.S.	N.S.S.	N.S.S.
7920055	4	10	10	0.8
7920056	4	1	3	0.1
7920057	38	18	62	0.1
7920058	20	12	64	0.5
7920059	10	2	34	0.8
7920060	14	30	58	0.2
7920061	10	4	18	1.0
7920062	2	1	3	0.1
7920063	48	336	60	5.6
7920064	34	210	124	4.6
7920065	6	18	12	1.0
7920066	24	10	30	1.2
7920067	26	260	36	4.6
7920068	8	4	14	0.4
7920069	10	1	32	0.1
7920070	4	1	8	0.1
7920071	14	1	38	1.4
7920072	22	42	32	1.4
7920073	6	48	43	0.2
7920074	14	2	28	0.2
7920075	10	2	24	0.2
7920076	6	14	10	0.2
7920077	16	1	10	0.1
7920078	14	510	36	2.2
79 079	8	16	28	0.2
7920080	32	36	16	3.2



Certified by *Hartwick*



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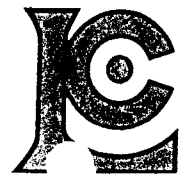
TO : D. KRETSCHMAR
BOX 310
STEWART, B.C.
V0T 1W0

CERT. # : A8010064-003-A
INVOICE # : 38510
DATE : 04-SEP-90

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920081	24	138	116	1.8
7920082	22	18	46	1.2
7920083	26	42	62	3.0
7920084	10	1	18	0.1
7920085	24	4	22	0.1
7920086	16	6	42	0.8
7920087	16	12	48	0.1
7920088	16	1	38	0.4
7920089	8	10	24	1.4
7920090	24	34	94	1.6
7920091	10	2	34	0.1
7920092	14	4	32	2.4
7920093	26	4	52	1.0
7920094	14	4	24	0.6
7920095	10	2	14	0.1
7920096	12	78	106	0.4
7920097	6	1	8	0.2
7920098	54	12	72	1.2
7920099	10	4	16	0.4
7920100	24	76	210	0.6
7920101	6	2	10	0.1
7920102	8	2	12	0.1
7920103	34	60	146	3.0
7920104	8	2	10	0.4
7920105	6	18	16	0.1
7920106	14	2	10	0.1
7920107	8	32	28	0.1
7920108	68	52	98	3.4
7920109	6	1	10	0.1
7920110	34	106	106	1.6
7920111	10	68	92	2.6
7920112	6	2	16	0.4
7920113	6	1	130	0.1
7920114	8	10	18	0.6
7920115	10	1	18	0.1
7920116	14	1	10	0.1
7920117	6	1	8	0.1
7920118	8	4	16	0.2
7920119	10	2	16	0.1
7920120	6	4	6	0.1

Certified by *Hart Biddle*





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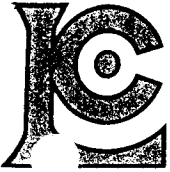
TO : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010064-004-A
 INVOICE # : 38510
 DATE : 04-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920121	2	2	12	0.1
7920122	4	6	12	0.2
7920123	10	1	8	0.1
7920124	4	1	6	0.1
7920125	48	10	33	3.4
7920126	20	10	38	4.6
7920127	10	10	54	0.1
7920128	6	8	20	0.6
7920129	6	1	20	0.2
7920130	98	6	52	1.4
7920131	32	2	32	1.4
7920132	46	18	64	1.6
7920133	34	43	144	4.6
7920134	8	52	33	1.6
7920135	4	6	13	0.1
7920136	4	8	8	0.1
7920137	6	4	22	0.8
7920138	6	1	14	0.2
7920139	3	8	16	7.6
7920140	6	10	8	0.1
7920141	3	48	46	0.2
7920142	32	230	184	3.6
7920143	10	116	84	1.4
7920144	3	160	34	0.4
7920145	2	6	12	0.2
7920146	4	6	6	0.1
7920147	52	8	10	0.1
7920148	3	26	98	1.8
7920149	14	86	84	1.0
7920150	14	54	118	1.0
7920151	16	114	92	0.3
7920152	6	156	42	0.4
7920153	2	6	16	0.1
7920154	4	12	32	0.1
7920155	6	6	14	0.1
7920156	2	6	16	0.1
7920157	4	4	6	0.1
7920158	6	4	22	0.1
7920159	22	56	18	0.2
7920160	24	6	92	1.6

Certified by *Hank Biddle*





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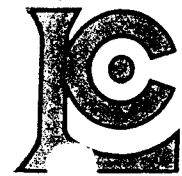
CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
BOX 310
STEWART, B.C.
VOT 1W0

CERT. # : ABC10064-005-A
INVOICE # : 38510
DATE : 04-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920161	10	16	63	1.2
7920162	4	38	26	2.8
7920163	58	58	300	3.6
7920164	42	80	126	4.2
7920165	38	162	84	14.0
7920166	34	255	340	2.8
7920167	22	42	20	2.0
7920168	5	4	18	0.1
7920169	5	28	20	0.1
7920170	4	2	16	0.1
7920171	4	2	6	0.1
7920172	2	2	20	0.1
7920173	5	30	64	0.1
7920174	5	3	64	0.1
7920175	14	24	80	0.1
7920176	6	6	18	0.6
7920177	8	6	20	1.0
7920178	114	124	146	3.8
7920179	14	310	76	0.1
7920180	92	56	76	12.0
7920181	3	1	22	0.1
7920182	5	1	14	1.6
7920183	6	14	36	1.0
7920184	6	22	18	1.0
7920185	2	12	16	0.1
7920186	8	1	14	4.6
7920187	14	2	14	1.6
7920188	10	1	14	0.8
7920189	10	20	24	3.2
7920190	52	193	128	3.6
7920191	26	54	60	4.4
7920192	18	188	84	3.8
7920193	14	545	34	6.6
7920194	6	32	144	0.4
7920195	14	36	166	0.6
7920196	10	26	72	1.6
7920197	8	8	28	0.2
7920198	5	2	20	0.1
7920199	4	4	16	0.1
7920200	198	182	360	2.2

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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604)984-0221
 TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010064-006-A
 INVOICE # : 38510
 DATE : 04-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920201	18	430	98	2.0
7920203	6	6	16	0.1
7920204	4	2	12	0.1
7920205	4	4	14	0.1
7920206	2	2	10	0.1
7920207	16	16	22	1.0
7920208	6	18	20	0.1
7920209	2	8	14	0.1
7920210	14	72	96	>20.0
7920211	6	4	46	0.6
7920212	10	18	106	0.1
7920213	24	200	148	2.8
7920214	56	106	380	3.2
7920215	22	54	114	0.4
7920216	24	150	198	2.0
7920217	14	34	36	1.4
7920218	5	4	18	0.2
7920219	6	66	22	0.1
7920220	2	28	20	0.1
7920221	10	24	14	2.4
7920222	8	14	72	4.8
7920223	4	2	14	0.1
7920224	2	14	12	0.1
7920225	2	4	10	0.1
7920226	6	4	16	1.0
7920227	14	10	450	1.6
7920228	2	70	46	4.6
7920229	136	>10000	1700	>20.0
7920230	86	1700	1000	>20.0
7920231	58	1450	700	>20.0
7920232	320	>10000	7000	>20.0
7920233	4	70	56	0.6
7920234	2	10	18	1.6
7920235	46	280	560	1.6
7920236	6	4	30	0.1
7920237	2	8	10	0.2
7920238	24	4	30	0.1
7920239	16	12	36	0.1
7920240	4	1	14	0.8
7920241	8	10	28	0.2

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212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
30X 310
STEWART, B.C.
VOT 1W0

CERT. # : A8010064-007-A
INVOICE # : 38510
DATE : 04-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920242	2	2	20	0.6
7920243	78	138	255	1.6
7920244	20	26	68	0.6
7920245	16	4	18	0.2
7920246	34	24	86	1.2
7920247	36	66	470	2.4
7920248	38	54	88	1.3
S02-028	515	1700	400	1.6
S02-006	520	1600	410	2.8
S02-006	535	1700	410	2.6

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NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604)984-0221

TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

C : D. KRETSCHMAR
BOX 310
STEWART, B.C.
VCT 1W0

CERT. # : A8C10194-001-A
INVOICE # : 38574
DATE : 09-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920249	124	655	128	2.2
7920250	34	128	98	1.0
7920251	16	26	102	1.2
7920252	18	32	34	1.8
7920253	12	14	44	0.1
7920254	8	4	23	0.1
7920255	32	24	48	2.0
7920256	36	26	560	1.2
7920257	20	2	50	0.4
7920258	14	2	48	0.2
7920259	14	10	52	0.8
7920260	24	8	104	1.6
7920261	30	6	144	2.8
7920262	32	8	120	2.4
7920263	140	12	100	2.4
7920264	12	2	16	0.2
7920265	14	2	46	0.1
7920266	16	6	70	2.2
7920267	4	4	3	0.4
7920268	6	1	10	0.1
7920269	16	20	76	0.8
7920270	132	70	174	2.4
7920271	500	22	330	2.8
7920272	96	6	50	2.6
7920273	96	8	52	2.6
7920274	60	40	160	0.4
7920275	24	24	38	1.2
7920276	500	72	166	0.4
7920277	60	8	30	1.4
7920278	10	10	14	0.1
7920279	192	180	145	5.6
7920280	136	24	480	4.4
7920281	30	36	116	3.4
7920282	4	4	3	0.2
7920283	12	132	64	1.6
7920284	92	4000	1000	5.6
7920285	194	3400	690	18.0
7920286	16	24	46	1.6
7920287	18	22	44	0.2
7920288	8	2	6	0.4

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212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO : C. KRETSCHMAR
BOX 310
STEWART, B.C.
VCT 1W0

CERT. # : A8010194-002-A
INVOICE # : 38574
DATE : 09-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920289	10	2	6	1.0
7920290	8	2	12	0.6
7920291	10	65	74	0.6
7920292	6	36	12	1.0
7920293	16	22	68	1.2
7920294	8	4	15	0.6
7920295	14	22	46	4.0
7920296	6	2	10	1.0
7920297	6	2	24	1.6
7920298	2	4	34	0.6
7920299	18	5	42	1.0
7920300	10	2	22	0.6
7920301	6	25	30	1.0
7920302	16	3	40	0.8
7920303	10	44	52	2.6
7920304	8	2	10	0.2
7920305	8	2	12	0.4
7920306	10	2	22	0.1
7920307	10	24	38	1.8
7920308	16	2	26	1.2
7920309	10	1	22	1.4
7920310	8	1	18	0.2
7920311	116	230	310	3.6
7920312	24	44	70	1.0
7920313	26	46	140	2.6
7920314	18	146	140	1.4
7920315	14	2	30	0.2
7920316	6	2	14	0.8
7920317	6	2	24	0.2
7920318	16	12	52	1.2
7920319	3	1	16	0.8
7920320	24	136	178	3.8
7920321	10	4	32	1.2
7920322	8	2	22	0.6
7920323	14	18	53	1.0
7920324	16	13	54	1.8
7920325	2	70	22	0.8
7920326	6	26	44	2.8
7920327	18	24	140	2.6
7920328	14	168	116	3.2



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NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

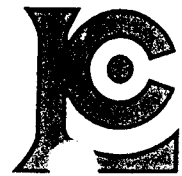
• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
BOX 310
STEWART, B.C.
VOT 1W0

CERT. # : A8010194-003-A
INVOICE # : 38574
DATE : 09-SEP-80

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm
7920329	8	32	32	0.8
7920330	26	168	184	2.6
7920331	13	66	76	2.4



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212 BROOKSBANK AVE.
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 CANADA V7J 2C1
 TELEPHONE: (604)984-0221
 TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010502-001-A
 INVOICE # : 39334
 DATE : 10-OCT-80

Sample description	Prep code	AU-FA+AA ppb						
7920006	202	15	--	--	--	--	--	--
7920007	202	<20	--	--	--	--	--	--
7920008	202	45	--	--	--	--	--	--
7920010	202	30	--	--	--	--	--	--
7920017	202	10	--	--	--	--	--	--
7920018	202	5	--	--	--	--	--	--
7920037	202	75	--	--	--	--	--	--
7920038	202	40	--	--	--	--	--	--
7920039	202	<20	--	--	--	--	--	--
7920040	202	N.S.S.	--	--	--	--	--	--
7920041	202	<10	--	--	--	--	--	--
7920042	202	120	--	--	--	--	--	--
7920043	202	N.S.S.	--	--	--	--	--	--
7920044	202	<5	--	--	--	--	--	--
7920045	202	N.S.S.	--	--	--	--	--	--
7920046	202	N.S.S.	--	--	--	--	--	--
7920049	202	65	--	--	--	--	--	--
7920050	202	5	--	--	--	--	--	--
7920053	202	N.S.S.	--	--	--	--	--	--
7920063	202	N.S.S.	--	--	--	--	--	--
7920064	202	25	--	--	--	--	--	--
7920065	202	<10	--	--	--	--	--	--
7920066	202	5	--	--	--	--	--	--
7920067	202	N.S.S.	--	--	--	--	--	--
7920071	202	40	--	--	--	--	--	--
7920072	202	<5	--	--	--	--	--	--
7920073	202	N.S.S.	--	--	--	--	--	--
7920078	202	<5	--	--	--	--	--	--
7920079	202	15	--	--	--	--	--	--
7920080	202	N.S.S.	--	--	--	--	--	--
7920091	202	125	--	--	--	--	--	--
7920092	202	120	--	--	--	--	--	--
7920093	202	140	--	--	--	--	--	--
7920090	202	45	--	--	--	--	--	--
7920092	202	10	--	--	--	--	--	--
7920096	202	20	--	--	--	--	--	--
7920098	202	50	--	--	--	--	--	--
7920099	202	5	--	--	--	--	--	--
7920100	202	<5	--	--	--	--	--	--
7920102	202	20	--	--	--	--	--	--



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212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604)984-0221
 TELEX: 043-52597

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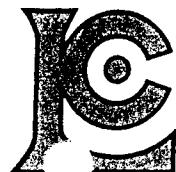
TO : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010502-002-A
 INVOICE # : 39334
 DATE : 10-OCT-80

Sample description	Prep code	AU-FA+AA ppb					
7920103	202	65	--	--	--	--	--
7920104	202	30	--	--	--	--	--
7920107	202	30	--	--	--	--	--
7920103	202	20	--	--	--	--	--
7920109	202	<5	--	--	--	--	--
7920110	202	15	--	--	--	--	--
7920111	202	285	--	--	--	--	--
7920113	202	564	--	--	--	--	--
7920125	202	55	--	--	--	--	--
7920126	202	55	--	--	--	--	--
7920130	202	55	--	--	--	--	--
7920132	202	40	--	--	--	--	--
7920133	202	N.S.S.	--	--	--	--	--
7920134	202	40	--	--	--	--	--
7920139	202	N.S.S.	--	--	--	--	--
7920141	202	15	--	--	--	--	--
7920142	202	25	--	--	--	--	--
7920143	202	15	--	--	--	--	--
7920144	202	N.S.S.	--	--	--	--	--
7920147	202	5	--	--	--	--	--
7920148	202	50	--	--	--	--	--
7920149	202	<20	--	--	--	--	--
7920150	202	30	--	--	--	--	--
7920151	202	20	--	--	--	--	--
7920152	202	20	--	--	--	--	--
7920159	202	N.S.S.	--	--	--	--	--
7920160	202	120	--	--	--	--	--
7920161	202	20	--	--	--	--	--
7920162	202	10	--	--	--	--	--
7920163	202	275	--	--	--	--	--
7920164	202	90	--	--	--	--	--
7920165	202	80	--	--	--	--	--
7920166	202	20	--	--	--	--	--
7920167	202	N.S.S.	--	--	--	--	--
7920175	202	5	--	--	--	--	--
7920178	202	N.S.S.	--	--	--	--	--
7920179	202	430	--	--	--	--	--
7920180	202	N.S.S.	--	--	--	--	--
7920186	202	500	--	--	--	--	--
7920189	202	N.S.S.	--	--	--	--	--

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212 BROOKSBANK AVE.
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 CANADA V7J 2C1
 TELEPHONE: (604)984-0221
 TELEX: 043-52597

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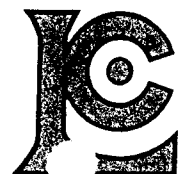
TO : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010502-003-A
 INVOICE # : 39334
 DATE : 10-OCT-80

Sample description	Prep code	AU-FA+AA ppm						
7920190	202	65	--	--	--	--	--	--
7920191	202	N.S.S.	--	--	--	--	--	--
7920192	202	N.S.S.	--	--	--	--	--	--
7920193	202	20	--	--	--	--	--	--
7920194	202	15	--	--	--	--	--	--
7920195	202	15	--	--	--	--	--	--
7920196	202	N.S.S.	--	--	--	--	--	--
7920200	202	20	--	--	--	--	--	--
7920201	202	175	--	--	--	--	--	--
7920210	202	35	--	--	--	--	--	--
7920211	202	5	--	--	--	--	--	--
7920212	202	10	--	--	--	--	--	--
7920213	202	40	--	--	--	--	--	--
7920214	202	40	--	--	--	--	--	--
7920215	202	55	--	--	--	--	--	--
7920216	202	155	--	--	--	--	--	--
7920217	202	85	--	--	--	--	--	--
7920219	202	20	--	--	--	--	--	--
7920221	202	15	--	--	--	--	--	--
7920222	202	90	--	--	--	--	--	--
7920227	202	135	--	--	--	--	--	--
7920223	202	950	--	--	--	--	--	--
7920229	202	>5000	--	--	--	--	--	--
7920230	202	2500	--	--	--	--	--	--
7920231	202	2050	--	--	--	--	--	--
7920232	202	>5000	--	--	--	--	--	--
7920233	202	65	--	--	--	--	--	--
7920234	202	<10	--	--	--	--	--	--
7920235	202	10	--	--	--	--	--	--
7920236	202	10	--	--	--	--	--	--
7920239	202	30	--	--	--	--	--	--
7920242	202	15	--	--	--	--	--	--
7920244	202	15	--	--	--	--	--	--
7920246	202	45	--	--	--	--	--	--
7920247	202	10	--	--	--	--	--	--
7920248	202	50	--	--	--	--	--	--



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212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604)984-0221
 TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
 BOX 310
 STEWART, B.C.
 V0T 1W0

CERT. # : A8010612-001-A
 INVOICE # : 39945
 DATE : 23-OCT-80

ORIGINALLY ON A801094-001-A

Sample description	Prep code	AU-FA+AA pop						
7920249	214	55	--	--	--	--	--	--
7920250	214	110	--	--	--	--	--	--
7920251	214	470	--	--	--	--	--	--
7920252	214	100	--	--	--	--	--	--
7920255	214	1000	--	--	--	--	--	--
7920256	214	N.S.S.	--	--	--	--	--	--
7920257	214	N.S.S.	--	--	--	--	--	--
7920260	214	40	--	--	--	--	--	--
7920261	214	N.S.S.	--	--	--	--	--	--
7920262	214	2400	--	--	--	--	--	--
7920263	214	N.S.S.	--	--	--	--	--	--
7920264	214	15	--	--	--	--	--	--
7920266	214	15	--	--	--	--	--	--
7920269	214	N.S.S.	--	--	--	--	--	--
7920270	214	125	--	--	--	--	--	--
7920271	214	105	--	--	--	--	--	--
7920272	214	N.S.S.	--	--	--	--	--	--
7920273	214	30	--	--	--	--	--	--
7920274	214	40	--	--	--	--	--	--
7920275	214	N.S.S.	--	--	--	--	--	--
7920276	214	180	--	--	--	--	--	--
7920277	214	N.S.S.	--	--	--	--	--	--
7920278	214	5	--	--	--	--	--	--
7920279	214	320	--	--	--	--	--	--
7920280	214	N.S.S.	--	--	--	--	--	--
7920281	214	N.S.S.	--	--	--	--	--	--
7920282	214	75	--	--	--	--	--	--
7920283	214	N.S.S.	--	--	--	--	--	--
7920284	214	750	--	--	--	--	--	--
7920285	214	320	--	--	--	--	--	--
7920286	214	30	--	--	--	--	--	--
7920291	214	25	--	--	--	--	--	--
7920292	214	10	--	--	--	--	--	--
7920293	214	30	--	--	--	--	--	--
7920294	214	<10	--	--	--	--	--	--
7920295	214	10	--	--	--	--	--	--
7920303	214	15	--	--	--	--	--	--
7920311	214	240	--	--	--	--	--	--
7920312	214	N.S.S.	--	--	--	--	--	--
7920313	214	N.S.S.	--	--	--	--	--	--

Hart Biddle

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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE: (604)984-0221
TELEX: 043-52597

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CERTIFICATE OF ANALYSIS

TO : D. KRETSCHMAR
BOX 310
STEWART, B.C.
V0T 1W0

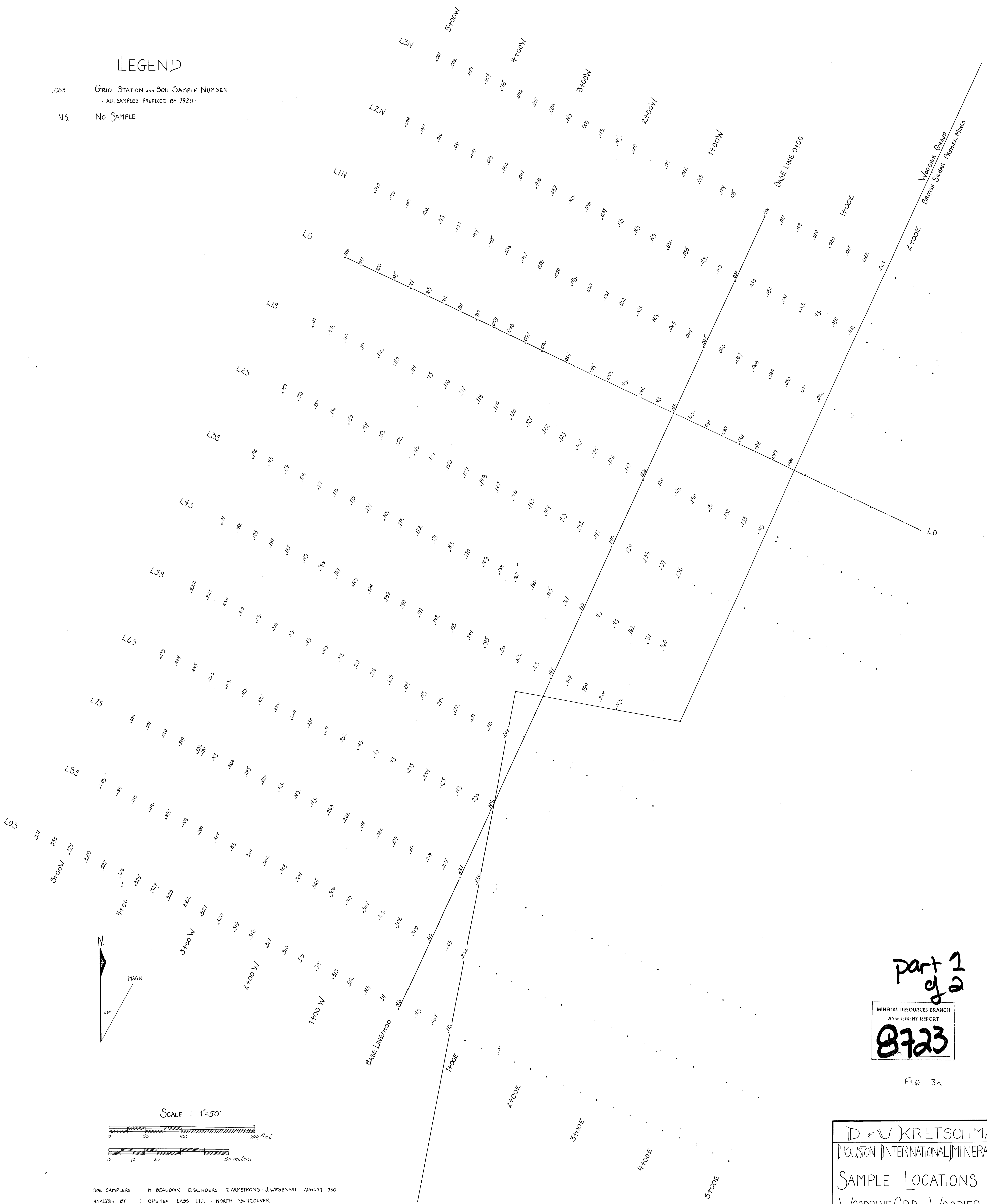
CERT. # : A8010612-002-A
INVOICE # : 39945
DATE : 28-OCT-80

ORIGINALLY ON A801094-001-A

Sample description	Prep code	AU-FA+AA ppb						
7920314	214	N.S.S.	--	--	--	--	--	--
7920320	214	105	--	--	--	--	--	--
7920321	214	60	--	--	--	--	--	--
7920325	214	25	--	--	--	--	--	--
7920326	214	30	--	--	--	--	--	--
7920327	214	N.S.S.	--	--	--	--	--	--
7920328	214	N.S.S.	--	--	--	--	--	--
7920329	214	55	--	--	--	--	--	--
7920330	214	65	--	--	--	--	--	--
7920331	214	30	--	--	--	--	--	--

LEGEND

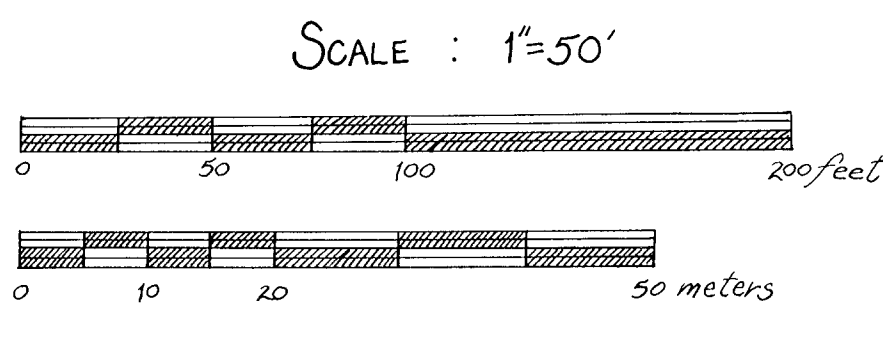
.083 GRID STATION AND SOIL SAMPLE NUMBER
 . ALL SAMPLES PREFIXED BY 7920 .
 N.S. NO SAMPLE



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 of 2

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
8723

FIG. 3a

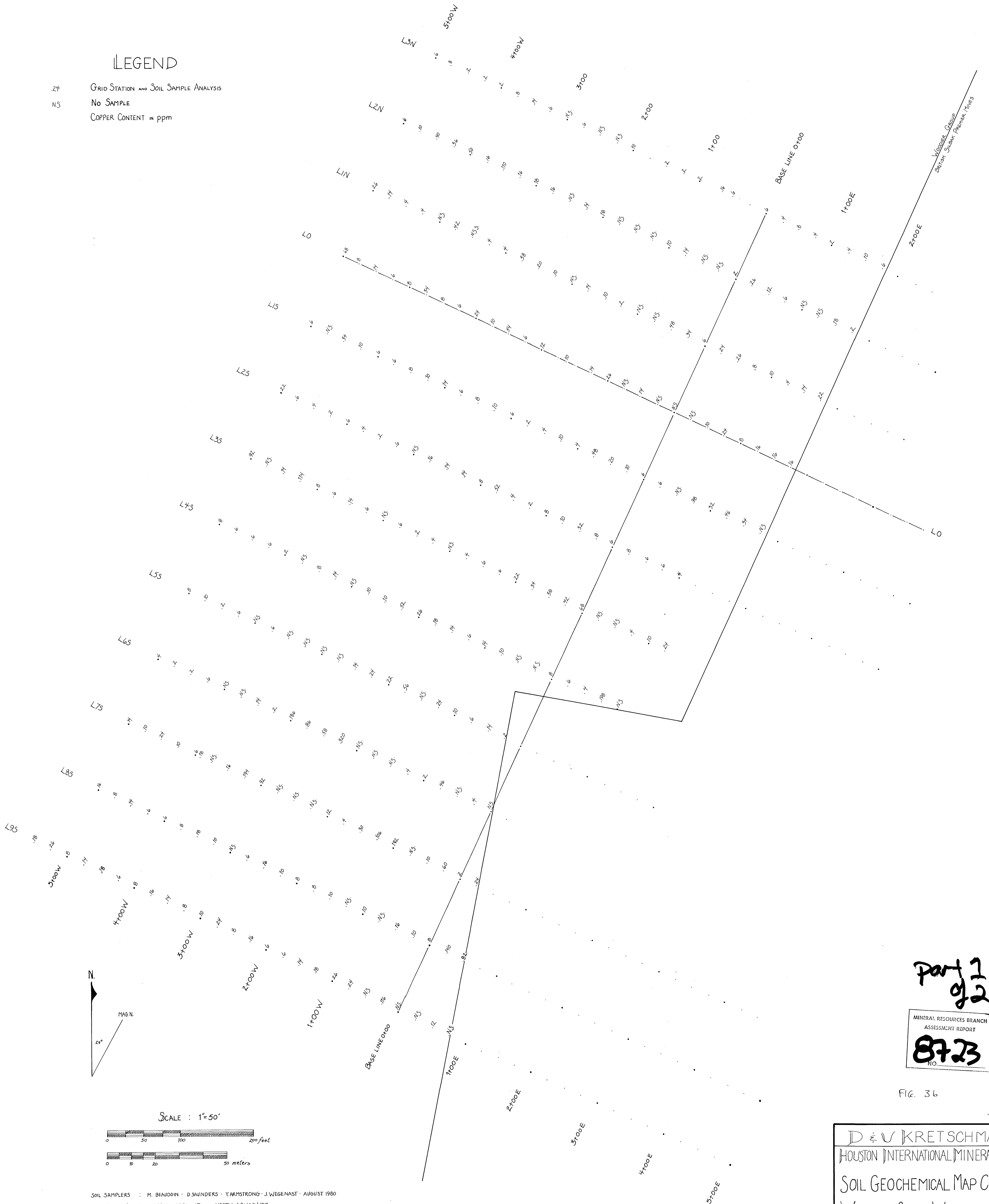


SOIL SAMPLERS : M. BEAUDOIN · D. SAUNDERS · T. ARMSTRONG · J. WEGENAST · AUGUST 1980
 ANALYSIS BY : CHEMEK LABS. LTD. · NORTH VANCOUVER
 LINE CUTTING BY : D. JACOB · F. BUSQUE · VOISINE HOLDINGS · WHITEHORSE
 DRAFTED BY : J. DANIELS · OCTOBER 1980

D & V KRETSCHMAR
 HOUSTON INTERNATIONAL MINERALS CORP.
 SAMPLE LOCATIONS MAP
 WOODBINE GRID · WOODIER GROUP
 NTS 104 B/E STEWART B.C.

LEGEND

- ZF GRID STATION AND SOIL SAMPLE ANALYSIS
- NS NO SAMPLE
- COPPER CONTENT in ppm



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NO.

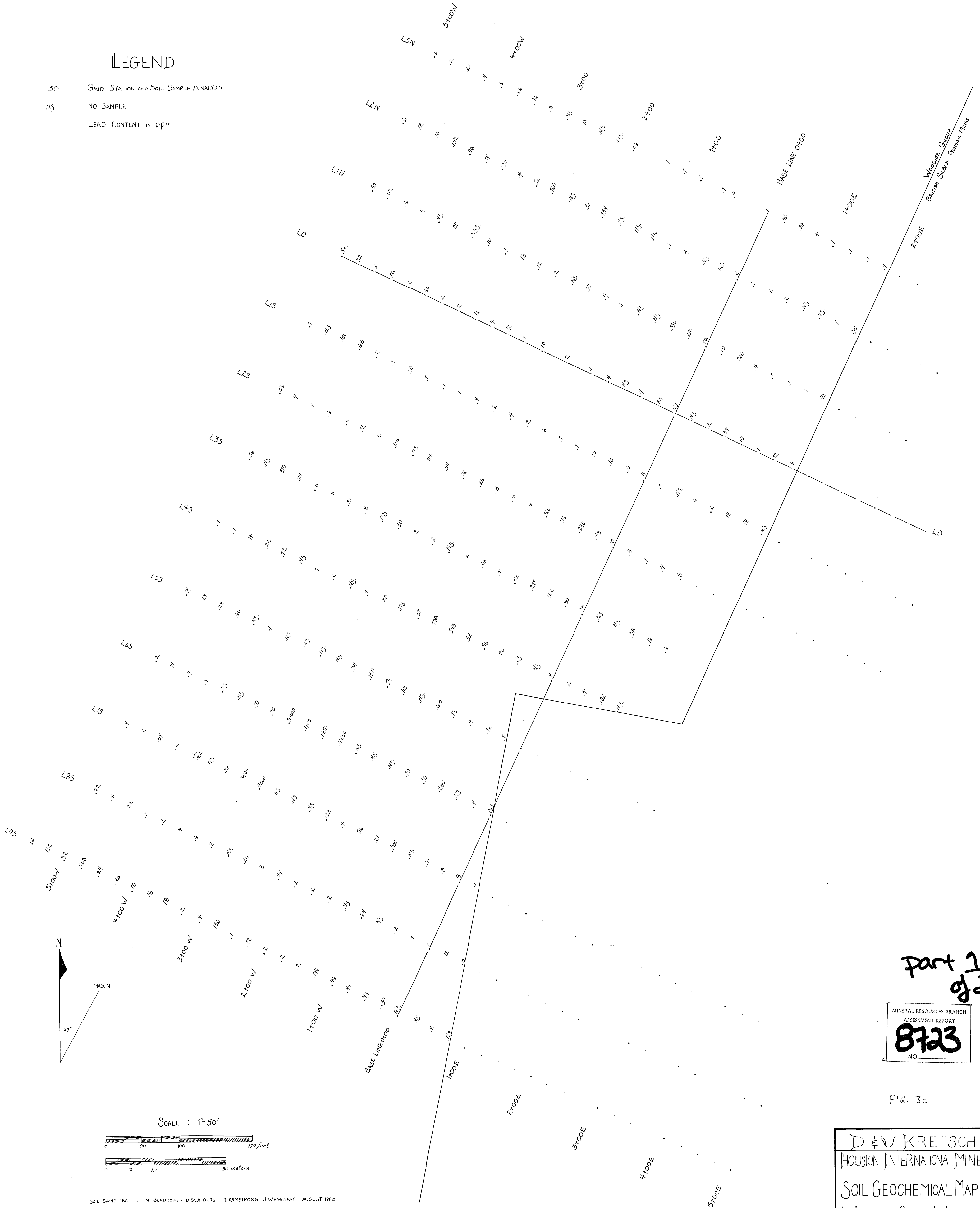
FIG. 36

SOIL SAMPLERS : M. BEAUDIN · D. SAUNDERS · T. ARMSTRONG · J. WEGENAST · AUGUST 1980
ANALYSIS BY : CHEMEX LABS. LTD. · NORTH VANCOUVER
LINE CUTTING BY : D. JACOB · F. BUSQUE · VOISINE HOLDINGS · WHITEHORSE
DRAFTED BY : J. DANIELS · OCTOBER 1980

D & V KRETSCHEMAR
HOUSTON INTERNATIONAL MINERALS CORP.
SOIL GEOCHEMICAL MAP COPPER
WOODBINE GRID · WOODIER GROUP
NTS 104 B/E STEWART BC.

LEGEND

- SO GRID STATION AND SOIL SAMPLE ANALYSIS
- NS NO SAMPLE
- LEAD CONTENT in ppm



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MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8723
NO.

FIG. 3c

SOIL SAMPLERS : M. BEAUDOIN · D. SWUNDERS · T. ARMSTRONG · J. WEGENAST · AUGUST 1980
ANALYSIS BY : CHEMEX LABS. LTD. · NORTH VANCOUVER
LINE CUTTING BY : D. JACOB · F. BUSQUE · VOISINE HOLDINGS · WHITEHORSE
DRAFTED BY : J. DANIELS · OCTOBER 1980

D & V KRETSCMAR
HOUSTON INTERNATIONAL MINERALS CORP.
SOIL GEOCHEMICAL MAP LEAD
WOODBINE GRID · WOODIER GROUP
NTS 104 B/E STEWART-B.C.

LEGEND

342 GRID STATION AND SOIL SAMPLE ANALYSIS
 NS. NO SAMPLE
 ZINC CONTENT IN ppm



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MIN. RESOURCES BRANCH
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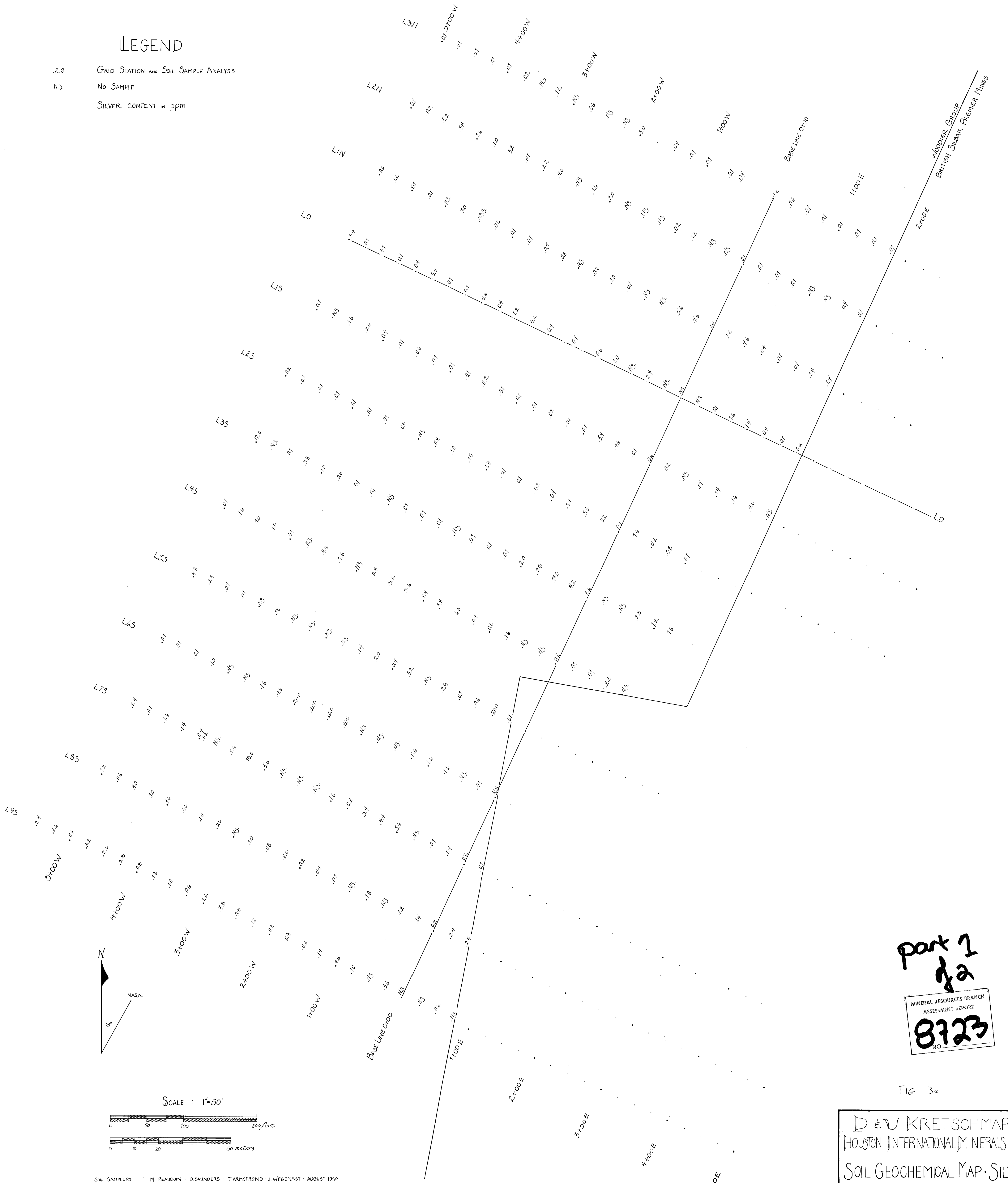
FIG. 3d

SOIL SAMPLERS : M. BEAUDOIN - D. SAUNDERS - T. ARMSTRONG - J. WEGENAST - AUGUST 1980
 ANALYSIS BY : CHEMEX LABS LTD. - NORTH VANCOUVER
 LINE CUTTING BY : D. JACOB - F. BUSQUE - VOISINE HOLDINGS - WHITEHORSE
 DRAFTED BY : J. DANIELS - OCTOBER 1980

D & V KRETSCHEMAR
 HOUSTON INTERNATIONAL MINERALS CORP.
 SOIL GEOCHEMICAL MAP - ZINC
 WOODBINE GRID - WOODIER GROUP
 NTS 104 B/E STEWART B.C.

LEGEND

- .2.8 GRID STATION AND SOIL SAMPLE ANALYSIS
- NS NO SAMPLE
- SILVER CONTENT IN ppm



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FIG. 3a

SOIL SAMPLERS : M. BEAUDOIN · D. SAUNDERS · T. ARMSTRONG · J. WEGENAST · AUGUST 1980
ANALYSIS BY : CHEMEX LABS LTD. · NORTH VANCOUVER
LINE CUTTING BY : D. JACOB · F. BUSQUE · VOISINE HOLONOS · WHITEHORSE
DRAFTED BY : J. DANIELS · OCTOBER 1980

D & V KRETSCHMAR
HOUSTON INTERNATIONAL MINERALS CORP.
SOIL GEOCHEMICAL MAP · SILVER
WOODBINE GRID · WOODIER GROUP
NTS 104 B/AE STEWART · BC.

LEGEND

- .240 GRID STATION AND SOIL SAMPLE ANALYSIS
- NS. NO SAMPLE
- GOLD CONTENT IN PPB



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MINERAL RESOURCES BRANCH
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NO.

FIG. 3F

SOIL SAMPLERS : M. BEAUDIN · D. SAUNDERS · T. ARMSTRONG · J. WEGENAST · AUGUST 1980
 ANALYSIS BY : CHEMEX LABS. LTD. · NORTH VANCOUVER
 LINE CUTTING BY : D. JACOB · F. BUSQUE · VOISINE HOLDINGS · WHITEHORSE
 DRAFTED BY : J. DANIELS · OCTOBER 1980

D & W KRETSCHMAR
 HOUSTON INTERNATIONAL MINERALS CORP.
 SOIL GEOCHEMICAL MAP GOLD
 WOODBINE GRID · WOODIER GROUP
 NTS 104 B/1E STEWART-B.C.

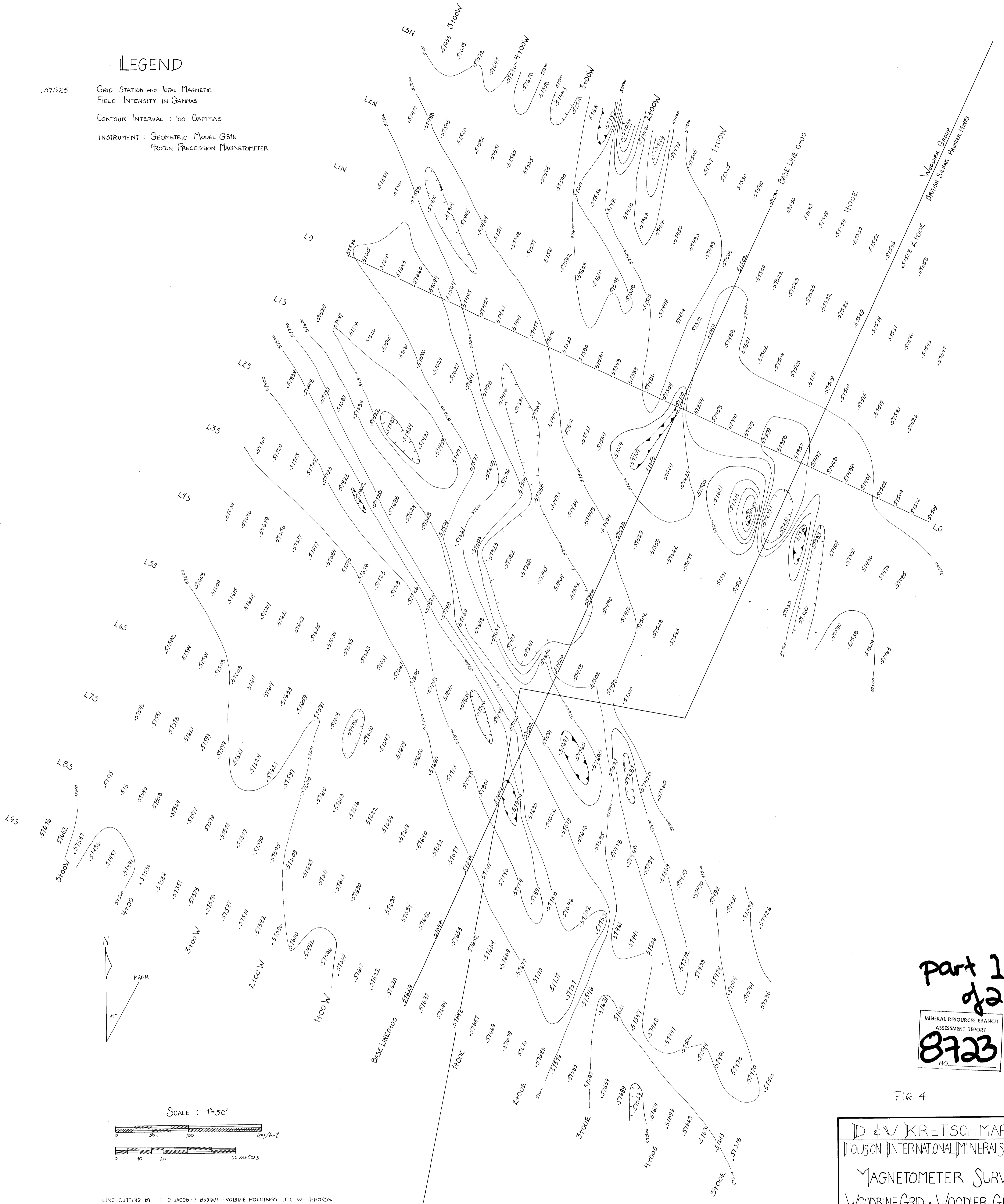
LEGEND

.57525

GRID STATION AND TOTAL MAGNETIC
FIELD INTENSITY IN GAMMAS

CONTOUR INTERVAL : 100 GAMMAS

INSTRUMENT : GEOMETRIC MODEL G816
PROTON PRESSION MAGNETOMETER



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FIG 4

D & V KRETSCHMAR
HOUSTON INTERNATIONAL MINERALS CORP.
MAGNETOMETER SURVEY
WOODBINE GRID · WOODIER GROUP
NTS104 B/AE STEWART-BC

LINE CUTTING BY : D. JACOB · F. BUSQUE · VOISINE HOLDINGS LTD. WHITEHORSE
MAGNETOMETER OPERATOR : J. WEGENAST · AUGUST 20TH & 26TH 1980
DRAFTED BY : J. DANIELS · OCTOBER 1980