PROSPECTING AND GEOPHYSICAL REPORT

on the

MONTANA CLAIM

CANYON CREEK AREA

GREENWOOD MINING DIVISION, BRITISH COLUMBIA

49° 26' North latitude
118° 53' 30'' West longitude
N.T.S. 82E/07

OWNERS: ST. ELIAS MINES LTD.
604 - 700 WEST PENDER ST.
VANCOUVER, B.C. V6C 1G8

MADMAN MINING CO. LTD.
548 BEATTY ST.
VANCOUVER, B.C. V6B 2L3

OPERATOR: ST. ELIAS MINES LTD.
604 - 700 WEST PENDER ST.
VANCOUVER, B.C. V6C 1G8

REPORT BY: LEONARD GAL M.Sc. P. Geo.

DATE: November 5, 1996

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SUMMARY AND CONCLUSIONS

The Montana Claim is a 20 unit 4 - post claim, staked in 1995 over an area of historic workings, and several old Crown Grants along Fourth of July and Canyon Creeks. The geology of the property consists mainly of Carboniferous or older Anarchist Group greenstones, meta-andesites and some sediments. These are intruded by granodiorites and feldspar porphyry dykes. A search was made for workings along Canyon and Fourth of July Creeks, as well as the old Montana and Mayflower Crown grants. The BCMEMPR MINFILE lists showings of copper, silver and gold on these Crown Grants. An adit on the old Fourth of July Crown Grant was opened and the quartz carbonate vein was sampled. Gold and silver values (to 27.74 g/t Au and 160.7 g/t Ag over 15cm) seemed to be associated with sulphide shoots within the veins. A limited VLF survey was carried out over the Fourth of July adit area. North - northwest and possible northeast trending conductors were indicated, that may be related to the vein structures. Further anomalous gold values were found in veins exposed by blast pits near the head of Fourth of July Creek, approximately 800m northwest of the adit.

INTRODUCTION

A short exploration program was conducted by White Wolf Explorations Ltd. on behalf of the claim owners from August 12 to 15, 1996. The aim of the program was to locate old workings, determine the style and extent of mineralization developed by such workings, and formulate a plan for further exploration based on observations in the field.
Prospecting traverses were conducted over the property, 16 rock samples collected, and a limited (400m) VLF-EM survey was conducted over the Fourth of July adit area.

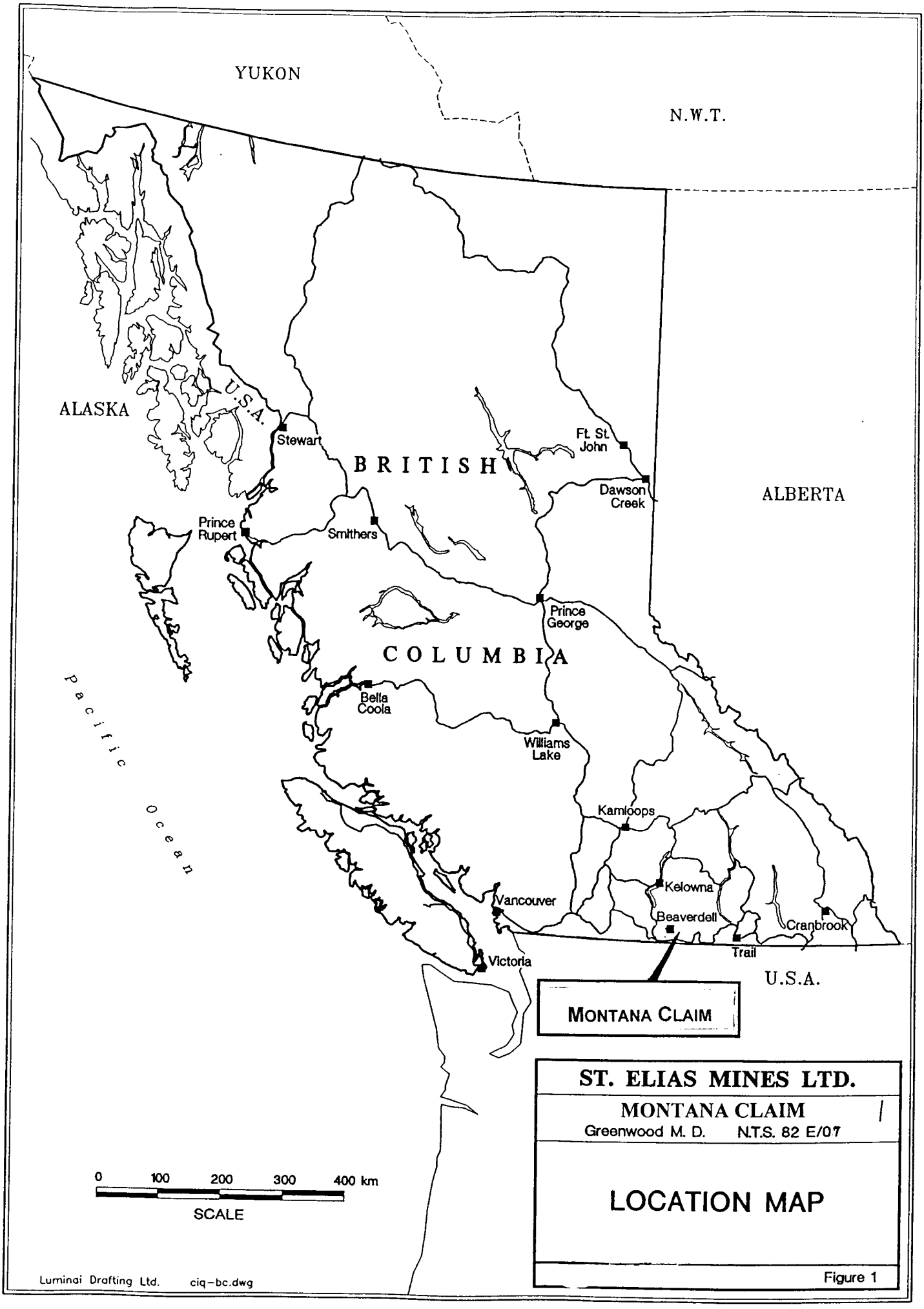
CLAIM INFORMATION AND PROPERTY OWNERSHIP

The Montana Claim, located in the Greenwood Mining Division is a 20 unit 4 - post mineral claim, staked on December 13, 1995 by Mr. Gerrard Gallissant (Figure 2). Through a Bill of Sale, the title (100%) was transferred to Madman Mining Co. Ltd. Subsequently, Madman Mining assigned an 80% interest to St. Elias Mines Ltd. Claim information is summarized below:

CLAIM NAME	CLAIM TYPE	TENURE NUMBER	NUMBER OF UNITS	ANNIVERSARY DATE *
MONTANA	4-post	342865	20	Dec. 13, 1996

LOCATION AND ACCESS

The Montana Claim is located 295 kilometers east of Vancouver, 25 kilometres north of Westbridge and just west of the Kettle River (Figure 1). The property is in the Greenwood Mining Division, and is centred at approximately 49°26'N latitude and 118°53'30'' W longitude on NTS Map Sheet 82 E/7W. The claim is accessed by the Fourth of July Forestry Service road which leaves the Westbridge - Christian Valley - Monashee Pass Road at kilometer 25. The Fourth of July FSR traverses the claim from southeast to northwest, with some minor trails branching off the main logging road.



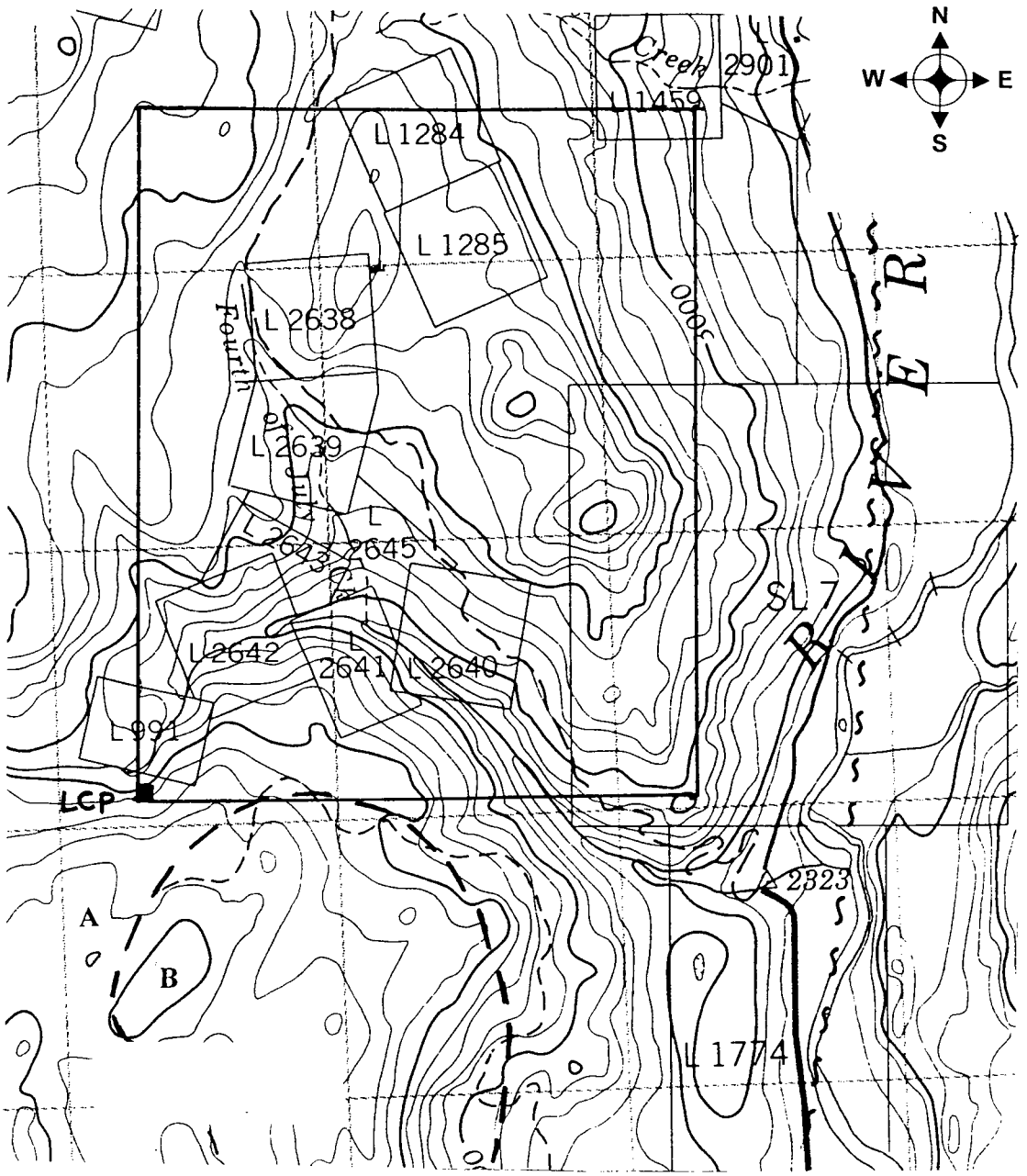
ST. ELIAS MINES LTD.

MONTANA CLAIM

Greenwood M. D. N.T.S. 82 E/07

LOCATION MAP

Figure 1



SCALE

0 250 500 750 1000m

LEGEND

A - Anarchist Group
B - Valhalla Intrusions
~~~ Major Fault

ST. ELIAS MINES LTD.

MONTANA CLAIM

CANYON CREEK, BEAVERDELL AREA

GREENWOOD MINING DIVISION, B.C.

82 E/07W SCALE 1:25,000

PHYSIOGRAPHY

The property is situated within the Monashee Mountains of the Southern Interior Physiographic Region, and elevations range from 810m along Canyon Creek to 1230m on ridges adjacent to Fourth of July Creek. Slopes are gentle except in the Canyon Creek valley. Vegetation consists mainly of mature pine and fir with open grazing areas on the ridge adjacent to Fourth of July Creek. There is evidence of old woodlots, and recent winter logging has taken place west of Fourth of July Creek. There is relatively little underbrush, except along Canyon Creek where vegetation is thick. The climate features warm summers and mild winters. Water is plentiful in Canyon Creek, but Fourth of July Creek flow is intermittent.

HISTORY OF PREVIOUS WORK

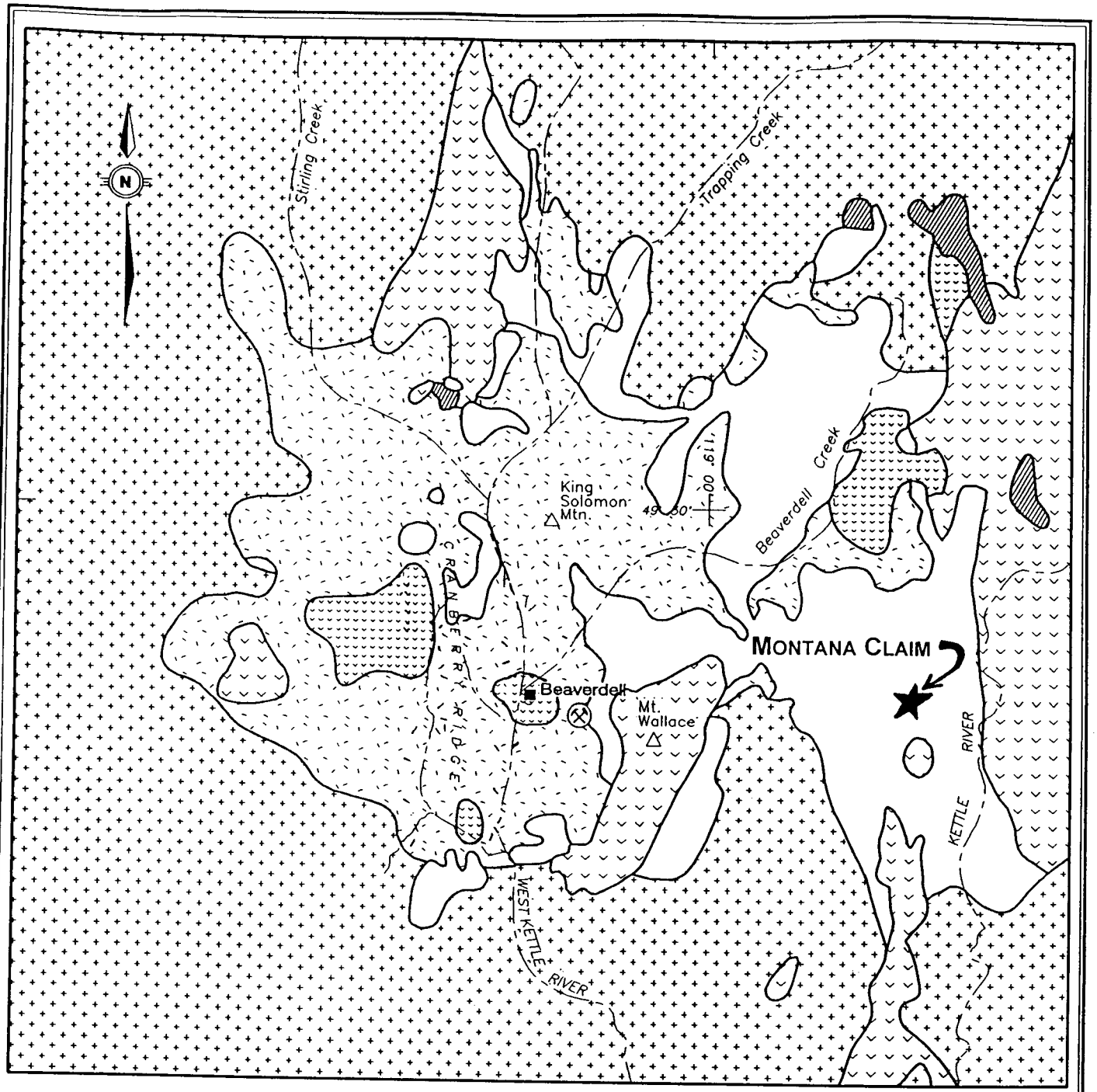
Old Crown Granted claims in the area date to the late 1800s. The B.C. Minister of Mines Annual Reports of the early 1900s mention developments on the Fourth of July (L. 2638), Montana (L.2640) and Mayflower (L.1284). Several other Crown Grants were located along Fourth of July Creek and Canyon Creek. MINFILE refernces list Assessment Reports that indicate work on past claims in the 1970s and 1980s that partly include the present Montana claim. The Lake Ridge district, 5km north of the Montana claim has seen more intensive exploration and development. The Barnato Mine on Lake Ridge was a former gold producer.

REGIONAL GEOLOGY

The area is within the Omineca Crystalline Belt, a NW trending belt dominated by plutonic and high grade metamorphic rocks. Regional geology is presented in Figure 3, simplified from G.S.C. Map 1736-A by Templeman-Kluit. The Montana claim is underlain by the Carboniferous or older Anarchist Group. This unit includes amphibolite, greenstones, quartz - chlorite and quartz - biotite schists, minor ultramafics, sediments and chert. Granodioritic plugs of middle Jurassic Nelson plutonics, as well as Jurassic - Cretaceous intrusions of the Okanagan batholith outcrop in the area. To the east of the Montana Claim, Eocene volcanics of the Marron Group outcrop in a fault-bounded graben expressed by the Kettle River valley. The Anarchist Group rocks are also overlain south of the property by Eocene Springbrook Formation Conglomerate.

PROPERTY GEOLOGY

Anarchist Group rocks outcropping on the Montana Claim comprise mainly green and grey meta-andesites. These are massive generally with little fabric, although phenocrysts are evident. Minor disseminated pyrite and lesser pyrrhotite are common. Silicified and pyritic altered zones are present on the ridge east of Fourth of July Creek. Thin bedded turbiditic siltstones were also observed here. Fine grained dioritic intrusives cut the Anarchist Group rocks in the vicinity of Fourth of July Creek, and may be related to the Nelson plutonics. Medium - grained granodiorites crops out along Canyon Creek in the southwest corner of the property. Intrusives are also present in the northeast corner and along the eastern margin of the claim. Feldspar porphyry dykes, trending northeast, was observed near the headwaters of Fourth of July Creek. Quartz - carbonate - sulphide veins were identified on the old Fourth of July Crown Grant, as well as in Canyon Creek. Several oxidized clay gouge and fault zones were also noted at the latter location.



Source: G.S.C. Map 1736 A, G.S.C. Map 15(1961), G.S.C. Map 6(1957)

LEGEND

Miocene

- Plateau Basalts

Eocene

- Eocene volcanics in part coeval with the CORYELL SYENITE
- CORYELL SYENITE

Jurassic – Cretaceous

- VALHALLA PLUTONICS (OKANAGAN BATHOLITH) granodiorite, granite

Middle Jurassic

- NELSON PLUTONICS granodiorite, quartz diorite

Carboniferous and Older

- ANARCHIST GROUP – amphibolite, greenstone, mafic schist, minor limestone, slate

0 2 4 6 8 10 km

SCALE

ST. ELIAS MINES LTD.

MONTANA CLAIM

Greenwood M. D. N.T.S. 82 E/07

REGIONAL GEOLOGY MAP

Figure 3

Luminai Drafting Ltd. ciqreg.dwg

PROSPECTING

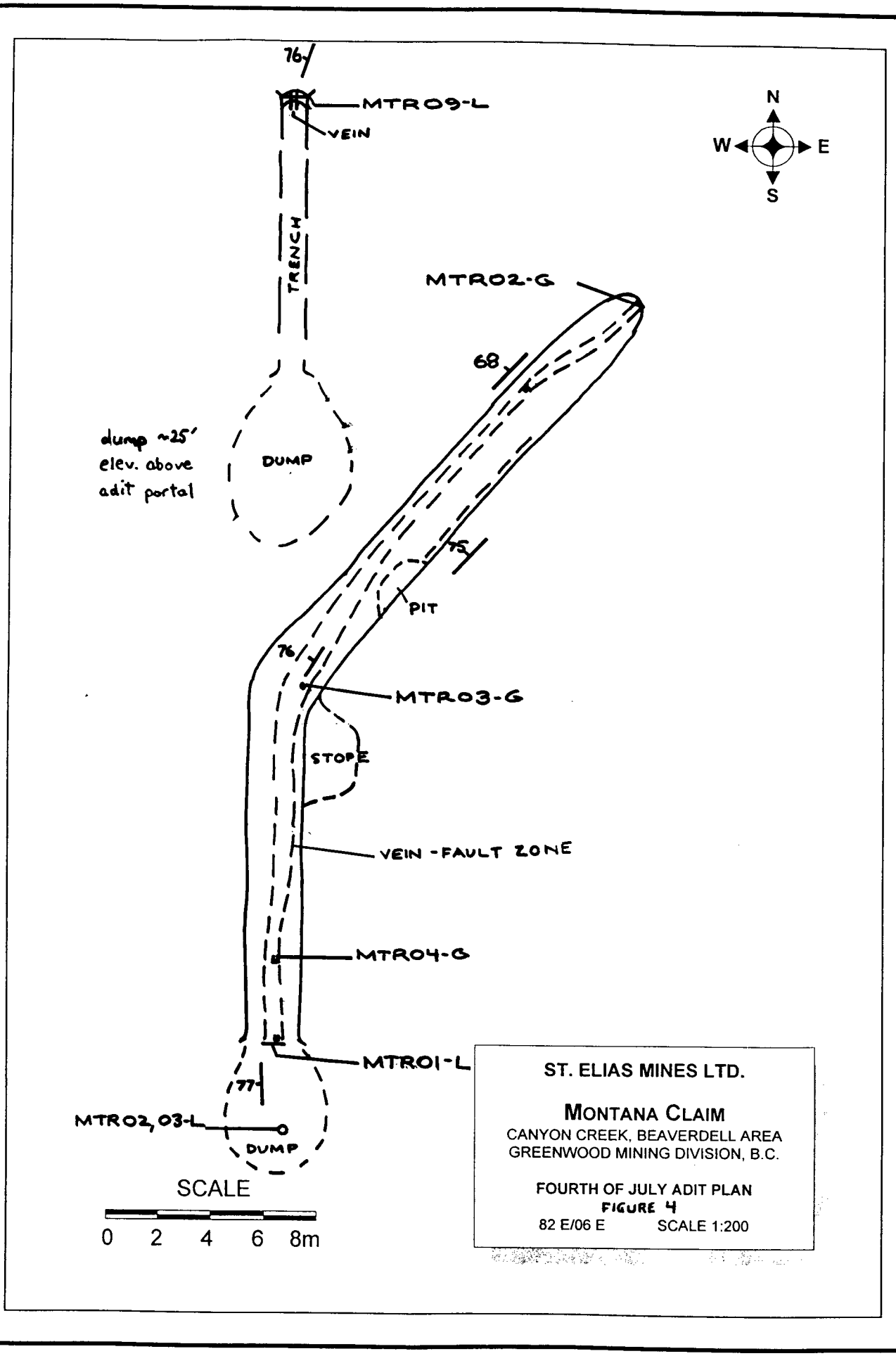
An effort was made to locate workings on the old Crown Granted claims on the property, specifically those mentioned in the Minister of Miners Annual Reports, i.e., the Mayflower, Montana and Fourth of July Crown Grants. Prospecting traverses are shown in Figure 6. The Mayflower lot covers a ridge of silicified volcanics and sedimentary rocks, rusty weathering and with local significant disseminated pyrite. The area had been logged in the past, and was possibly an old sawmill site. An intensive ground search failed to discover any major adits or workings, except for some possible old blast pits and caved trenches. On the Montana lot, the Fourth of July FSR was traversed, as well as Canyon Creek, with no old workings being discovered. An old adit on the Fourth of July Crown Grant was located (see below) . The portal was opened up and the adit was mapped (Figure 4). Several samples were taken from the adit and dump.

FOURTH OF JULY VEIN

A north trending adit on the old Fourth of July Crown Grant was cleared out and inspected. The adit was accessible, but sampling efforts were limited due to loose rock along the back of the adit. At the portal, the fault zone is about 60cm wide, with 5cm of clay gouge on the hanging-wall. The zone consists of silicified and clay altered volcanics with disseminated pyrite and trace chalcopyrite. At the portal are two parallel veins up to 8cm wide, composed of quartz and carbonate with some clasts of altered wall rock. The veins merge into one and the adit follows the fault zone north for about 13m, where it then bends to the northeast (about 40°) and follows a quartz carbonate vein, dipping to the west, within a variably sheared and broken fault zone up to 2m wide. The vein here is generally up to 25cm wide. Within the vein are shoots of massive fine grained pyrite and pyrrhotite up to 20cm wide. Additional sulphide minerals observed in the carbonate and quartz vein material include chalcopyrite and galena. Sample MTR04-G assayed 27.74 g/t Au (0.809 oz/ton) over a 15cm width of sulphide within the quartz carbonate vein. Sample MTR03-L from the adit dump was a select sample of pyrrhotite with minor chalcopyrite, probably from a similar sulphide shoot within the vein. This sample yielded 4.03 g/t Au. Other samples of interest include MTR01-L, a 70cm chip sample from the adit portal which assayed 696 ppb Au. Other samples from the vein in the adit yielded low gold, although a representative grab of quartz from the dump with only minor pyrite and trace chalcopyrite yielded 556 ppb Au (MTR02-L). A trench was cut about 25m north and uphill from the adit, where the quartz - carbonater vein cut fine grained dioritic rock. Quartz, calcite, pyrite, pyrrhotite and chalcopyrite were noted in the trench dump. A chip sample across 1m of quartz -carbonate vein and rusty wall rock yielded 348 ppb Au.

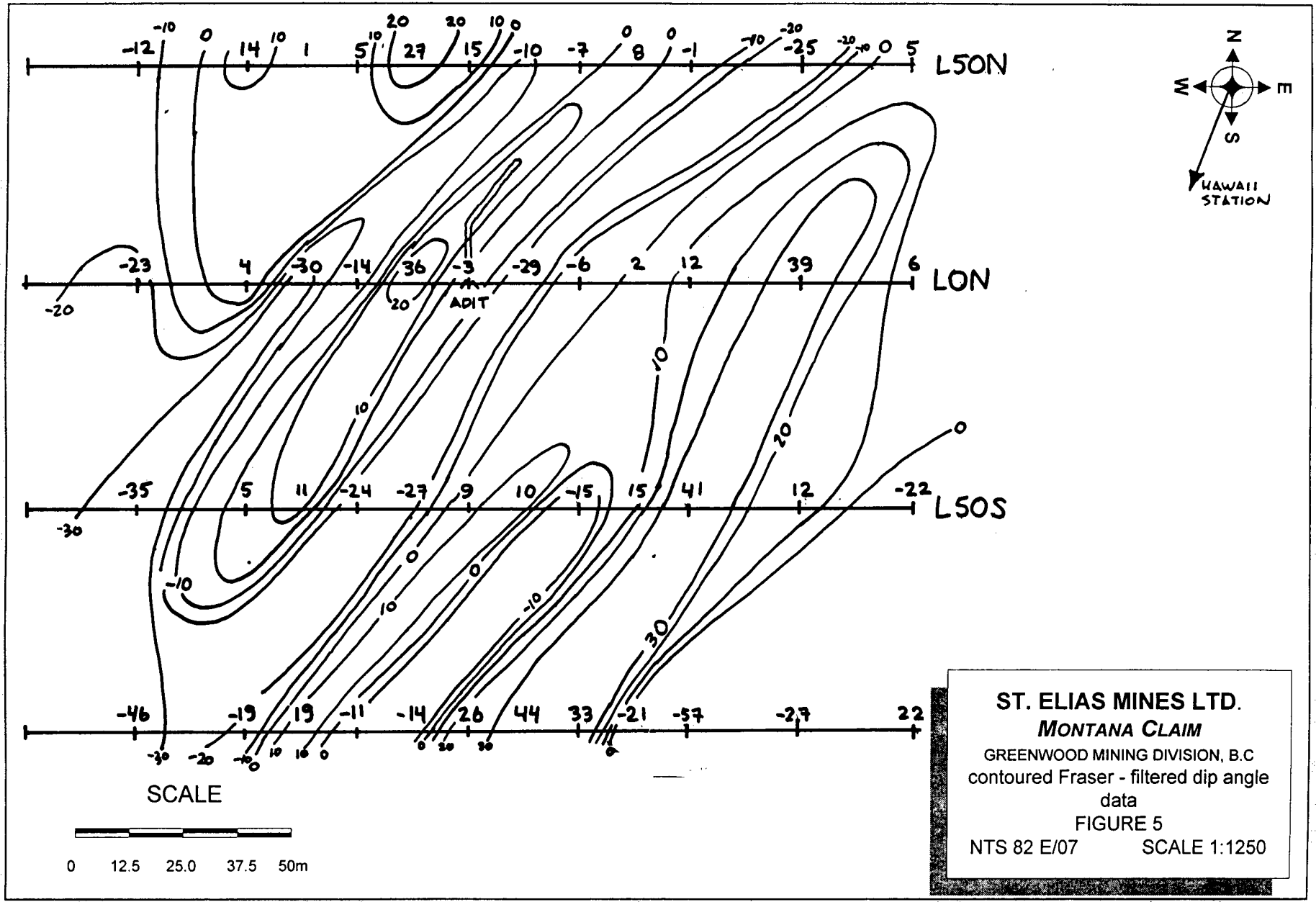
OTHER MINERALIZATION

Northwest of the adit across Fourth of July Creek near the northwest corner of the property, two samples from old blast pits yielded anomalous gold. Sample MTR-05G was a selection of weakly mineralized quartz that returned 364 ppb Au. Sample MTR06-G was a grab of oxidized and limonitic vein adjacent to a porphyry dyke, yielding 279 ppb Au. The country rock was silicified pyritic andesite and feldspar porphyry dykes.


76
MTR09-L
VEIN
TRENCH
N
W
E
S
MTR02-G
68
dump ~25' elev. above adit portal
DUMP
75
PIT
76
MTR03-G
STOPE
VEIN - FAULT ZONE
MTR04-G
MTR01-L
77
MTR02,03-L
DUMP
SCALE
0 2 4 6 8m
ST. ELIAS MINES LTD.
MONTANA CLAIM
CANYON CREEK, BEAVERDELL AREA
GREENWOOD MINING DIVISION, B.C.
FOURTH OF JULY ADIT PLAN
FIGURE 4
82 E/06 E
SCALE 1:200

VLF-EM SURVEY

A limited VLF-EM survey was conducted in the area of the Fourth of July vein. Four east - west lines were chained and flagged, 50m apart and 250m long. The Fraser filtered and contoured dip angle data are shown on Figure 5. Station readings were taken every 25m (or 12.5m) using a Geonics -16 instrument, and Hawaii as a transmitting station. Northeast trending conductors are apparent the adit location. The bend in the vein from north to northeast trending, as exposed in the adit, may indicate that two sets of structures could influence the vein position. The strong anomaly in the southeast corner of the grid is probably due to a fault that lies in the gully at this position.


L50N
L0N
L50S
ADIT
N
E
S
HAWAII STATION
SCALE
0 12.5 25.0 37.5 50m
ST. ELIAS MINES LTD.
MONTANA CLAIM
GREENWOOD MINING DIVISION, B.C
contoured Fraser - filtered dip angle data
FIGURE 5
NTS 82 E/07 SCALE 1:1250

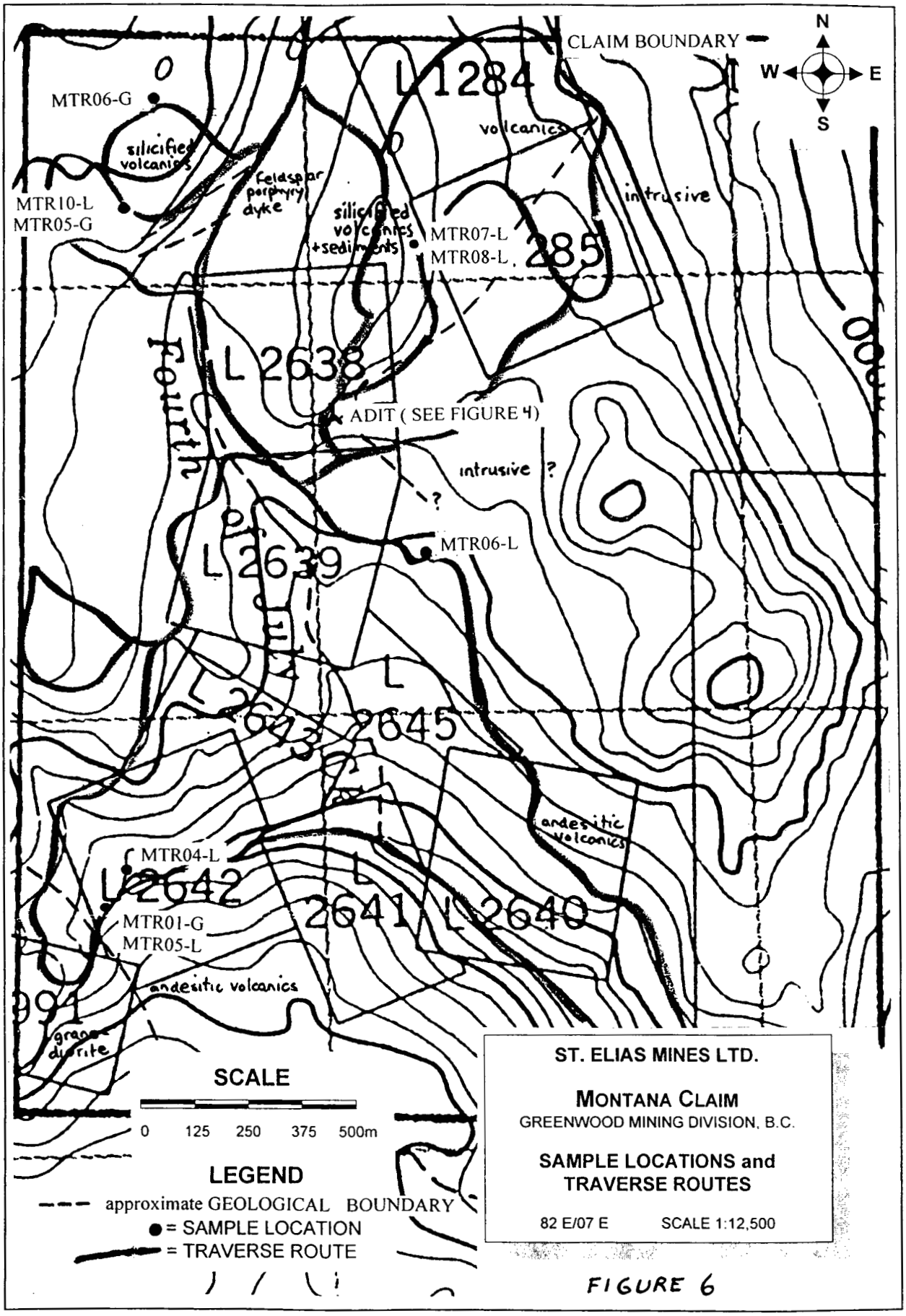

CLAIM BOUNDARY
N
W
E
S
MTR06-G
silicified volcanics
feldspar porphyry dyke
MTR10-L
MTR05-G
volcanics
intrusive
silicified volcanics +sediments
MTR07-L
MTR08-L
L 1284
285
L 2638
ADIT (SEE FIGURE 4)
intrusive ?
MTR06-L
L 2639
L 2645
andesitic volcanics
MTR04-L
L 2642
MTR01-G
MTR05-L
L 2641
L 2640
andesitic volcanics
granodiorite
SCALE
0 125 250 375 500m
LEGEND
approximate GEOLOGICAL BOUNDARY
= SAMPLE LOCATION
= TRAVERSE ROUTE
ST. ELIAS MINES LTD.
MONTANA CLAIM
GREENWOOD MINING DIVISION, B.C.
SAMPLE LOCATIONS and TRAVERSE ROUTES
82 E/07 E
SCALE 1:12,500

FIGURE 6

SELECTED BIBLIOGRAPHY

BCMEMPR MINFILE MINFILE 082ESE168 (Mayflower), MINFILE 082ESE111 (Montana)

B.C. Minister of Mines Annual Reports 1900 (p.879), 1901 (p.1136), 1902 (p.182), 1903 (p.248).

Little, H.W. (1961) Geology, Kettle River (West Half), British Columbia; Geological Survey of Canada, Map 15-1961

Tempelman-Kluit, D.J. (1989) Geology, Penticton, British Columbia; Geological Survey of Canada, Map 1736A, scale 1:250 000

STATEMENT OF QUALIFICATIONS

I, Leonard Gal, of Kelowna, British Columbia hereby certify that:

- I am a Professional Geoscientist registered in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
- I am a graduate of the University of British Columbia, with a B.Sc. in Geology (1986).
- I am a graduate of the University of Calgary, with a M.Sc. in Geology (Metamorphic Petrology) (1989).
- I have been engaged in geological work more or less continuously since 1986, in British Columbia, the Northwest Territories, Saskatchewan and the United States.
- The information in this report is based on review of published reports and maps, and a visit to the Property on August 12 - 15, 1996.
- I grant permission to use this report in a prospectus or other financial offering.

Signed this 5 day of November, 1996.

Leonard Gal

Leonard Gal M.Sc., P.Geo.

MONTANA CLAIM
COST of WORK PROGRAM - August 1996

DESCRIPTION	DATES	RATE	SUB - TOTAL
Leonard Gal, M.Sc, P. Geo.	Aug 12 - Aug. 15	3.5 days @ $375.00	$1,312.50
Gerard Gallissant, B.Sc. (Geography)	Aug 12 - Aug. 15	3.5 days @ 275.00	$962.50
Crew board (food)	7 man/days	@ $52.00 m/d	$364.00
Vehicle rentals 1 ton 4x4 crewcabs	3.5 days	@$75.00/d	$262.50
VLF-EM rental	Geonics EM-16	4 days @ $750/mo (pro rata)	$100.00
ATC rental	Honda 250cc -	3.5 days @ $50.00/d	$175.00
Survey supplies, fuel & oils (consumable)	Flagging, Topofil, sample bags,		$74.00
Analytical analysis (Bondar Clegg Inchape) North Vancouver	16 rock samples	@ $25/ samples	$400.00
Report preparation, drafting and research	1.5 days	@ $250/day	$375.00
Communications, management		@ 3%	$124.50
TOTAL			$4150.00

APPENDIX I

ROCK SAMPLE DESCRIPTIONS

MTR01-L: Fourth of July adit, 70cm chip sample at portal across zone of at least two sub-parallel quartz veins (up to 8cm wide) in silicified volcanic bounded by gouge zones. Pyrite and chalcopyrite noted.

MTR02-L: Representative grab from dump of quartz - carbonate vein material with minor altered wall rock. Trace pyrite and chalcopyrite noted.

MTR03-L Grab massive pyrrhotite (plus pyrite) pieces from dump. Overall, few massive sulphide chunks in dump.

MTR04-L Canyon Creek. 50cm chip across rusty, strongly fractured volcanic rock with some gouge development on north dipping zone. Not silicified.

MTR05-L Canyon Creek. 20cm chip sample across vein - fracture zone. Pyrite veinlets and stringers subparallel to carbonate vein sampled by MTR01-G.

MTR06-L Roadcut grab of typical pyritic and silicified andesitic volcanics

MTR07-L Mayflower C.G. 15cm chip sample across brecciated and fractured fault zone in thin bedded turbidites. Slightly pyritic.

MTR08-L Mayflower C.G. Grab from talus below bluff of rusty, silicic metasediment (?) with pyrite and pyrrhotite

MTR09-L Fourth of July trench. 1m chip sample across rusty, heavily oxidized fractured fault zone with minor vein material. Host rock appears intrusive.

MTR10-L Blast trench near head of Fourth of July Creek. Grabs of brecciated, pyritic, fractured silicified volcanic from trench dump.

MTR01-G Canyon Creek. Carbonate vein, highly fractured and oxidized. Wall rock andesite hosts disseminated sulphides.

MTR02-G Fourth of July adit. 33m from portal. 35cm chip across fault gouge in andesitic volcanics with disseminated sulphides.

MTR03-G Adit, 13m from portal. Fault gouge with 2-5cm quartz vein with disseminated sulphides.

MTR04-G Adit, 3m from portal. Highly oxidized vein 15cm wide with abundant disseminated sulphides

MTR05-G Grabs from dump of trench. Apparently unmineralized quartz vein material

MTR06-G Second trench uphill from MTR05-G, highly leached and oxidized andesitic volcanics adjacent to a porphyry dyke.

APPENDIX II

Geochemical Lab Report
Rock Samples

Bondar Clegg
Inchcape Testing Services

Geochemical Lab Report

CLIENT: WHITE WOLF EXPLORATION
REPORT: V96-01355.0 (COMPLETE)

PROJECT: SEM I
DATE PRINTED: 19-SEP-96 PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Au+ OPT	Ag PPM	AgOL PPM	Cu PPM	CuOL PCT	Pb PPM	Zn PPM	ZnOL PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM
MTR-01G		73		1.4		30		11	58		2	10	3	0.7	<5	10	<5	1.62	1077	<10	41	24	39	<20	<20	7	1.14	1.16	>10.00	0.01	0.10	196	4	4
MTR-02G		30		1.1		59		11	100		1	8	14	0.8	<5	36	10	4.69	998	<10	32	38	94	<20	<20	3	2.70	1.55	2.10	<.01	0.16	58	4	5
MTR-03G		36		0.3		33		4	14		2	4	4	<0.2	<5	10	<5	0.86	491	<10	16	123	15	<20	<20	2	0.63	0.22	2.09	<.01	0.07	43	4	<2
MTR-04G		>10000	0.809	160.7		1085		83	180		<1	4	6	66.8	<5	7083	54	>10.00	103	<10	9	69	4	<20	<20	10	0.10	<.01	0.07	<.01	0.06	3	5	<2
MTR-05G		364		3.9		55		4	67		<1	8	5	0.3	<5	221	6	3.02	954	<10	21	107	56	<20	<20	3	1.36	1.23	0.23	0.03	0.09	5	3	<2
MTR-06G		279		4.7		1063		54	47		<1	10	<1	9.1	<5	323	32	>10.00	11	26	14	3	35	<20	<20	60	0.43	<.01	0.02	<.01	0.08	3	3	<2
MTR-01L		696		1.1		154		87	630		<1	3	26	<0.2	<5	6354	25	8.54	978	<10	30	63	11	<20	<20	23	0.68	0.09	0.11	<.01	0.22	6	3	<2
MTR-02L		556		3.5		835		29	48		<1	11	95	<45.9	<5	>10000	24	2.38	1111	<10	4	58	2	<20	<20	2	0.12	0.03	8.68	<.01	0.02	79	3	<2
MTR-03L		4025		71.1		>10000	1.5	54	369		<1	<1	11	103.3	26	3298	25	>10.00	277	<10	1	10	20	<20	<20	51	0.05	0.02	1.44	<.01	<.01	7	2	<2
MTR-04L		96		<0.2		77		72	455		14	36	6	1.5	<5	131	<5	3.30	1313	<10	31	67	84	<20	<20	11	1.62	1.40	5.49	0.01	0.09	63	11	<2
MTR-05L		30		5.3		503		33	3675		<1	131	87	41.1	<5	157	54	>10.00	302	<10	4	41	68	<20	<20	15	1.83	1.12	0.21	<.01	0.01	5	4	<2
MTR-06L		15		0.3		51		10	116		32	65	6	0.3	<5	33	14	7.01	1642	<10	20	129	305	<20	<20	6	2.05	0.87	3.79	0.02	0.03	36	10	<2
MTR-07L		11		0.5		107		10	76		2	25	43	0.5	<5	34	<5	3.98	1061	<10	26	30	85	<20	<20	2	4.33	1.28	1.91	0.01	0.22	163	4	5
MTR-08L		28		1.9		267		9	62		<1	14	15	0.6	<5	10	7	5.38	242	<10	18	61	56	<20	<20	3	1.61	0.68	1.21	0.15	0.05	68	5	<2
MTR-09L		348		14.6		1609		13	50		<1	2	<1	7.2	<5	1118	16	>10.00	540	<10	28	39	63	<20	<20	2	2.46	1.27	0.17	<.01	0.17	8	3	<2
MTR-10L		18		0.7		78		10	93		<1	13	14	0.5	<5	21	8	5.41	1838	<10	33	37	128	<20	<20	4	1.96	1.86	3.31	0.03	0.02	77	8	3

Bondar Clegg
Inchcape Testing Services

Geochemical Lab Report

CLIENT: WHITE WOLF EXPLORATION
REPORT: V96-01355.0 (COMPLETE)

PROJECT: 5EM 1
DATE PRINTED: 19-SEP-96 PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
MTR-01G		19	2	<5	<10	<.01	2
MTR-02G		28	2	<5	<10	<.01	<1
MTR-03G		8	2	<5	<10	<.01	<1
MTR-04G		<1	2	<5	<10	<.01	<1
MTR-05G		17	1	<5	<10	<.01	<1
MTR-06G		<1	2	<5	<10	<.01	4
MTR-01L		4	<1	<5	<10	<.01	2
MTR-02L		1	1	<5	<10	<.01	<1
MTR-03L		<1	<1	<5	<10	<.01	4
MTR-04L		21	8	<5	<10	<.01	1
MTR-05L		14	3	<5	<10	<.01	2
MTR-06L		9	5	<5	<10	0.06	4
MTR-07L		23	2	<5	<10	0.07	2
MTR-08L		7	3	<5	<10	0.10	4
MTR-09L		12	2	<5	<10	<.01	<1
MTR-10L		15	4	6	<10	<.01	1

APPENDIX III

Raw VLF-EM data
Station Hawaii

LINE 0+00	DIP ANGLE	QUADRATURE
1+25W	+50	+12
1+00W	+20	+12
0+75W	+50	+37
0+50W	+80	+10
0+37W	+85	+35
0+25W	+130	+42
0+13W	+90	+17
0+00	-90	+24
0+13E	-130	+38
0+25E	-60	+32
0+37E	+100	+36
0+50E	-110	+32
0+75E	+120	+24
1+00E	+110	+5
1+25E	-70	+38
LINE 0+50N		
1+25W	+25	+10
1+00W	+65	+35
0+75W	+60	+31
0+50W	+20	+26
0+37W	+40	+26
0+25W	-80	+30
0+13W	-25	+17
0+00	+80	+12
0+13E	+80	+20
0+25E	-90	+19
0+37E	-120	+20
0+50E	-30	+11
0+75E	-130	+29
1+00E	-75	+27
1+25E	+105	+8
LINE 0+50S		
1+25W	+50	+8
1+00W	+60	+10
0+75W	+100	+32
0+50W	+100	+21
0+37W	+90	+16
0+25W	+70	+26
0+13W	+130	+35
0+00	+130	=34
0+13E	-110	+18
0+25E	-75	+41
0+37E	-60	+26
0+50E	-100	+18

LINE 0+50S	DIP ANGLE	QUADRATURE
0+75E	-60	+8
1+00E	-70	+24
1+25E	-100	+24
LINE 1+00S		
1+25W	-50	+15
1+00W	+70	+8
0+75W	+100	+32
0+50W	-80	+39
0+37W	+50	+20
0+25W	+100	+32
0+13W	+75	+38
0+00	+120	+28
0+13E	+110	+16
0+25E	+80	+6
0+37E	+60	+5
0+50E	+90	+38
0+75E	-100	+30
1+00E	-85	+40
1+25E	+85	+6