

LOG NO:	0914	RD.
ACTION:		
FILE NO:		

1989 Prospecting Report
on the
DAY3, DAY4, DAY5, & DAY6 Claims

Liard Mining Division
NTS: 104F/16
Lat: 57 53' N
Long: 132 10' N

Owners: Homestake Mineral Development Company
1000 - 700 W. Pender St.
Vancouver, B.C.
and
Equity Silver Mines Ltd.
Suite 13 - 1155 Melville St
Vancouver, B.C.

FILMED

Operator: Homestake Mineral Development Company

R.G. Carmichael
P.M. Holbek

June 27, 1989

GEOLOGICAL BRANCH
ANNUAL REPORT

19,079

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SUMMARY

The DAY property is located in the Stikine region of British Columbia. The property consists of four 2-post claims (DAY3, DAY4, DAY5, DAY6) totalling four units and is owned by Homestake Mineral Development Company and Equity Silver Mines Ltd.

Work on the property was carried out on June 13, 1989 and involved prospecting as well as the collection of 4 rock samples, 1 silt sample and 3 talus fine samples. The valley floor was covered by 1m of snow when the property was visited.

No further work is recommended on this property.

1.0 INTRODUCTION

1.1 Location and Access

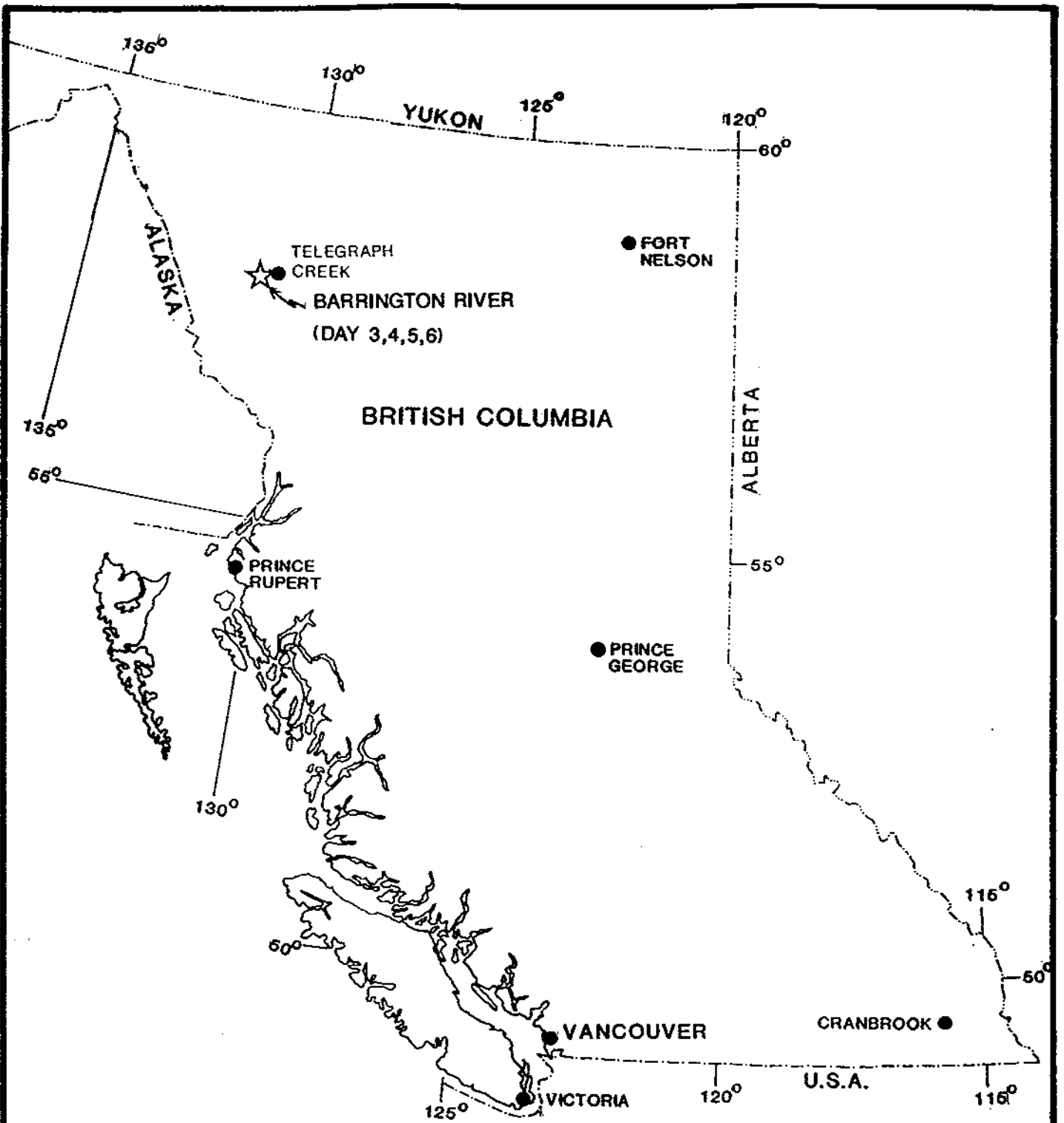
The Day property is located in the Stikine region of northwestern British Columbia approximately 55 km due west of the village of Telegraph Creek (Figure 1.1). The claims occupy a hanging valley on the north side of the Barrington River and are centred at 57 53' N latitude and 132 10' W longitude on NTS map sheet 104F/16.


Access to the property is via helicopter from Telegraph Creek, which is connected to Dease Lake by an all-weather road and serviced by fixed-wing flights from Smithers, B.C. The Stikine River provides navigable water access from Wrangell, Alaska north to Telegraph Creek.

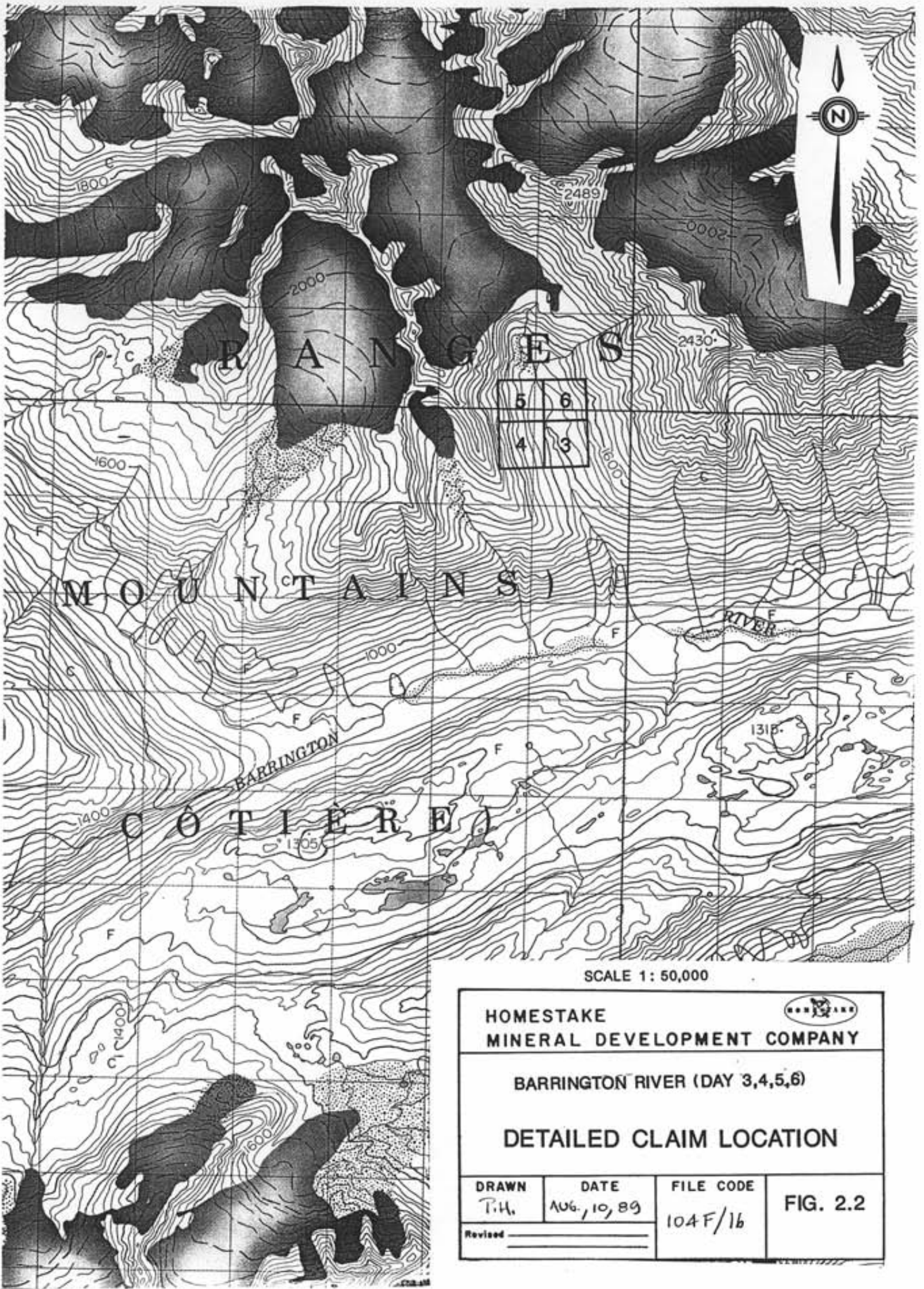
1.2 Claim Status

The Day property consists of four 2-post claims totalling four units. The claims were recorded on August 12, 1988 and are owned by Homestake Mineral Development Company and Equity Silver Mines Ltd. Assuming acceptance of this assessment work, claim data will be as follows:


CLAIM	UNITS	RECORD #	RECORDING DATE	EXPIRY DATE
DAY3	1	5067	Aug. 12, 1988	Aug. 12, 1990
DAY4	1	5068	"	"
DAY5	1	5069	"	"
DAY6	1	5070	"	"



HOMESTAKE 		
MINERAL DEVELOPMENT COMPANY		
GRAND CANYON PROJECT, B.C. BARRINGTON RIVER (DAY 3,4,5,6)		
LOCATION MAP		
DRAWN KMc	DATE 11/87	FILE CODE 104G
Revised _____		FIGURE 1,1



SCALE 1 : 50,000

HOMESTAKE MINERAL DEVELOPMENT COMPANY			 FIG. 2.2
BARRINGTON RIVER (DAY 3,4,5,6)			
DETAILED CLAIM LOCATION			
DRAWN T.H.	DATE AUG., 10, 89	FILE CODE 104F/16	
Revised _____			

1.3 Physiography

The Day claims are situated in a U-shaped hanging valley which has a small glacier at the head. The centre of the valley is a gravel braided stream bed and the valley sides are predominantly cliffs and talus slopes.

1.4 Exploration History

No previous work has been done on the Day property.

1.5 Present Work

The 1989 work program outlined in this report was designed to locate areas of anomalous metal values and to assess the economic potential of the property. It consisted of rock sampling, stream sediment sampling, talus fine sampling and prospecting.

2.0 REGIONAL GEOLOGY

The property lies on the boundary between the Coast and Intermontane tectonic belts. This area is underlain by rocks of the Stikine Terrane (Stikinia) consisting of Paleozoic schists, phyllites and greenstones of the Stikine Assemblage, Mid to Upper Triassic sedimentary and volcanic rocks of the Stuhini Group (Kerr, 1948), and Late Cretaceous to Tertiary continental volcanic arc assemblages of the Sloko Group (Logan and Koyanagi, 1989).

Three stages of plutonism are recognized in the area. The Hickman batholith is composed of Early to Middle Triassic quartz diorites and Middle Jurassic quartz monzonites. The third series of intrusive rocks are alkalic, generally syenitic, rocks of Early Jurassic age. These Early Jurassic rocks are associated with mineralization in the area, including the Galore Creek and Schaft Creek porphyry deposits.

These rocks have undergone multiple stages of deformation, forming a complex structural pattern which is complicated by large differences in the competence of the different units. North- and northwesterly-trending normal faults are dominant with narrow west-trending extensional fault zones postdating them (Souther, 1972).

The most economically important exploration targets are

LEGEND
STRATIFIED ROCKS

QUATERNARY

RECENT

Rvb (BSLT 64)* Basalts, cinder, ash

PLEISTOCENE AND RECENT

Qs (TILL 64) Surficial clastic sediments and glacial deposits

Qvo (OLVB 64) Olivine basalt

TERTIARY AND QUATERNARY

PLIOCENE AND PLEISTOCENE

PPLM (BSLT 63) LEVEL MOUNTAIN GROUP: basalt

PPvb (BTRT 63) Basalt, rhyolite, olivine, basalt

PPvr (RYLT 63) Rhyolite, trachyte, tuff

TERTIARY

EOCENE

ESL (RYLT 59) SLOKO GROUP: rhyolite, trachyte, andesite, basalt

CRETACEOUS AND TERTIARY

KTvd (ANDS 56) Andesite

CRETACEOUS

uKTC (SNDS 55) TANGO CREEK: sandstone, siltstone, coal

JURASSIC AND CRETACEOUS

JKs (SLSN 51) Siltstone, greywacke, conglomerate, shale (upper HAZELTON GROUP in part)

JURASSIC

JHs (SLSN 50) HAZELTON GROUP: siltstone, greywacke, sandstone, tuff

mJvb (BSLT 49) Basalt, pillow lava, tuff, volcanoclastic rocks

Jp (SHLE 49) Shale

JT (CGLM 49) TAKWAHONI: conglomerate, grit, greywacke

Jcg (CGGK 49) Conglomerate, grit, greywacke

TRIASSIC

uTp (PLLT 45) Phyllite, argillite, siltstone, greywacke, limestone

uTs (SLSN 45) Siltstone, chert, sandstone, tuff

uTsv (ANDV 45) Undifferentiated andesitic volcanic and clastic sedimentary rocks

uTST (VLRK 45) STUHINI GROUP: undifferentiated volcanic and sedimentary rocks

uTv (ANBT 45) Andesite, basalt

uTvd (ANDS 45) Andesite, pyroclastic rocks, greenstone

PERMIAN

Pc (LMSH 36) Limestone, minor, calcareous shale

CARBONIFEROUS AND PERMIAN

CPsn (SCST 35) Schist, gneiss

CPsv (GRNS 35) Greenstone, limestone, shale, clastic sedimentary rocks

MISSISSIPPIAN

Mct (LMTF 34) Limestone, tuff, chert

PLUTONIC ROCKS

CRETACEOUS AND TERTIARY

KTfp (FLSP 56) Felsite, feldspar porphyry

KTqm (QTMZ 56) Quartz monzonite

KTy (LSYN 56) Leucocratic syenite

JURASSIC AND CRETACEOUS

JKgd (GRDR 51) Granodiorite

JKqd (QRZD 51) Quartz diorite

JKdi (DORT 51) Diorite

TRIASSIC AND JURASSIC

TJgd (GRDR 46) Granodiorite

TJdi (QRZD 46) Quartz diorite, diorite, amphibolite

TJy (SYNT 46) Syenite, monzonite

TRIASSIC

Tb (DORT 42) Diorite, gabbro

Tdi (DORT 42) Diorite, monzonite

PERMIAN AND TRIASSIC






Pkub (UMFC 40) Ultramafic rocks, serpentinite

AGE UNKNOWN

gd (GRDR 65) Granodiorite

ih (AMPH 65) Amphibolite, gneiss, migmatite

SYMBOLS

Geological boundary	
Fault	
Thrust fault	
Glaciers	
Field duplicate sample sites	

GEOLOGY AND MINERAL DEPOSITS

Geological base and legend are derived from:

Souther, J.G., Brew, D.A. and Cluettich, A.V. (compilers) (1979) Iskut River, Geological Survey of Canada, Map 1418A.

*A mnemonic code assigned to rock types and recorded as part of field observations

For location of the following specific information for this area refer to British Columbia Ministry of Energy, Mines and Petroleum Resources; mineral deposits refer to Mineral Inventory Map, M1 104F - SUNDUM and M1 104G - TELEGRAPH CREEK; assessment reports refer to Assessment Report Index Map, AR 104F - SUNDUM and AR 104G - TELEGRAPH CREEK; bedrock geological mapping refer to Index of Bedrock Mapping, 1983; for mineral and placer claim maps contact the Ministry of Energy, Mines and Petroleum Resources, Mineral Titles Branch, Victoria, for current editions and status.

LEGEND TO ACCOMPANY FIG. 3.1

porphyry copper-gold-silver deposits and peripheral mesothermal and shear zone-hosted precious metal veins (Logan et al, 1989).

3.0 PROPERTY GEOLOGY

The Day property is underlain by Middle to Upper Triassic phyllite, argillite and siltstone. The rocks trend east-west and dip sub-vertically. No intrusive rocks were noted on the property and the only mineralization seen was minor pyrite within a faulted graphitic argillite. One large (2 x 1 m) quartz vein boulder with trace pyrite was found below the cliffs on the east side of the valley.

4.0 GEOCHEMISTRY

Three types of geochemical samples (stream silt, rock and talus fine) were collected during the work program. Sample locations and results are plotted on Figure 4.1. All sample sites were marked in the field with orange flagging tape and metal tags.

4.1 Analytical Methods

One sediment sample was taken from the central creek on the Day property. The sample was collected by hand and placed in a kraft sample bag, air dried and shipped to Acme Analytical Labs of Vancouver, B.C. Sample analysis consisted of 30 element ICP and gold by fire assay. The sample site was located by elevation and topography.

Four rock samples were collected from the property and shipped to Acme Analytical Labs. Thirty element ICP and gold by fire assay was done on each sample.

Three talus fine samples were collected by hand, placed in kraft paper bags and air dried. They were then shipped to Acme Analytical Labs where 30 element ICP and gold by fire assay was done.

4.2 Results

Analytical results are presented in Appendix I.

Four rock samples were collected from the DAY claims. Sample 31990 was a 1.3m chip sample across a gossanous, sub-vertical fault zone within phyllite. Limonite, jarosite and graphite were abundant within the zone and minor pyrite (<5%) was noted. This

sample returned 18ppm molybdenum, 1.6ppm silver, 21ppm arsenic and 27ppb gold. Sample 31989 was a grab sample from a large (1m x 1m), angular quartz boulder containing 5% disseminated pyrite. No significant results were obtained from this sample. Sample

31524 was from quartz vein boulder. The host rock was phyllite and the vein material contained 1% disseminated pyrite. No significant results were obtained from this sample. Sample 31525 was a grab sample from a thin, foliation parallel pyritic zone within chlorite schist. This sample returned 112ppm copper.

Three talus fine samples (31521, 31522, 31523) were taken at 100m intervals along the 1400m contour on the west side of the valley. These samples returned 0.7ppm, 0.9ppm and 1.5ppm silver; 137ppm, 110ppm and 154ppm arsenic and 17ppb, 22ppb and 66ppb gold.

One silt sample was collected from the main creek on the property (31991). This sample contained 14ppb gold.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the brief geological survey carried out during this work program, the economic potential of the property appears limited. A good representation of the geology was obtained from short traverses and occasional sampling due to the small size of the property and the excellent rock exposure. The best mineralization seen was 1 - 2% disseminated pyrite occurring in a rusty, graphitic fault zone within a steeply dipping argillite unit. One quartz vein with trace pyrite was sampled, but its source is likely to the north of the property. Other than the high arsenic values obtained from the talus fine samples, analytical results do not appear to be anomalous. No further work is recommended for the DAY claims.

6.0 REFERENCES

Brown, D.A. and Gunning, M. (1989): "Geology of the Stikine River Area, Northwestern B.C.", B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Field Work, 1988, Paper 1989-1, pp. 251-267.

Holbek, P.M. (1988): "Geology and Mineralization of the Stikine Assemblage, Mess Creek Area, Northwestern British Columbia.", University of British Columbia MSc thesis.

Kerr, F.A. (1948): "Lower Stikine and Western Iskut River Areas, B.C.", GSC Memoir 246.

Logan, J.M. and Koyanagi, V.M. (1989): "Geology and Mineral Deposits of the Galore Creek Area, Northwestern B.C.", B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Field Work, 1988, Paper 1989-1, pp. 269-284.

Souther, J.G. (1972): "Telegraph Creek Map Area, B.C.", GSC Paper 71-44.

7.0 STATEMENT OF COSTS

Labour

Project Geologist	0.5 days @ \$253/day	\$ 126.50
Geologist	0.5 days @ \$165/day	\$ 82.50
Senior Assistant	0.5 days @ \$115/day	\$ 57.50
Junior Assistant	0.5 days @ \$ 90/day	\$ 45.00

Food and Accommodation

2 mandays @ \$ 90/day	\$ 180.00
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Geochemical Analysis + Freight

Rock Samples	4 @ \$ 25/sample	\$ 100.00
Silt Samples	1 @ \$ 25/sample	\$ 25.00
Soil Samples	3 @ \$ 25/sample	\$ 75.00
Supplies		\$ 200.00

Mob/Demob

\$ 200.00

Helicopter Support (including fuel)

0.7 hrs @ \$700/hr	\$ 490.00
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Report Preparation

1 day @ \$165/day	\$ 165.00
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TOTAL

\$1746.50

APPENDIX I
Analytical Results

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR NM PI SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AD DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1 ROCK P2 SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 29 1989 DATE REPORT MAILED: *July 5/89* SIGNED BY: *C. Long* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

HOMESTAKE MINERAL DEV. CO. PROJECT 5711 BR 5 #26 File # 89-1842 Page 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	AU*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM
BR 5-1 31524	2	49	2	2	.2	12	3	49	1.01	2	5	ND	1	2	1	2	2	11	.23	.007	2	11	.04	6	.04	2	.04	.01	.01	2	1
BR 5-1 31525	1	112	7	65	.3	50	25	623	5.16	2	5	ND	1	8	1	2	2	70	.67	.064	2	54	1.55	33	.32	2	2.28	.01	.02	1	1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
31521	2	119	16	133	.7	20	23	1126	6.33	137	5	ND	1	37	1	2	3	26	.37	.103	13	10	.53	140	.01	2	1.21	.01	.10	1	17
31522	3	120	14	131	.9	22	25	970	6.25	110	5	ND	1	34	1	4	2	26	.40	.112	15	12	.63	130	.01	2	1.38	.01	.07	1	22
31523	2	109	14	129	1.5	27	24	1014	6.03	154	5	ND	1	50	1	2	2	46	.76	.093	11	20	.91	218	.03	8	1.47	.02	.12	1	66

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR NH FF SR CA P LA CR NG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1 ROCK P2 SILT AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 29 1989 DATE REPORT MAILED: July 5/89 SIGNED BY: C. Long... D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

HOMESTAKE MINERAL DEV. CO. PROJECT 5711 BR #29 File # 89-1845 Page 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Mn	Co	Ni	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM	PPB
BR-31-1 31990	18	210	17	176	1.6	45	22	436	5.38	21	5	ND	1	13	2	3	2	103	.91	.056	7	43	1.66	24	.28	2	1.87	.01	.06	1	27
BR-31-1 31333	1	13	6	33	.2	8	8	565	2.60	2	5	ND	1	409	1	2	2	80	4.41	.017	2	6	1.75	124	.01	5	.33	.01	.01	1	3
BR-31-1 31514	2	22	46	3	.3	4	4	38	1.52	11	5	ND	1	2	1	2	2	3	.01	.006	2	7	.01	4	.01	4	.05	.01	.01	3	34
BR-31-1 31515	1	189	13	128	.5	39	32	1118	7.14	4	5	ND	1	144	1	2	2	174	4.98	.044	3	22	1.65	79	.09	2	1.91	.02	.12	1	5
BR-31-1 31519	3	36	8	12	.2	11	3	664	.96	2	5	ND	1	560	1	2	2	13	5.87	.055	7	6	.24	87	.01	6	.41	.01	.16	1	1
BR-31-1 31520	4	23	6	5	.1	18	8	94	1.26	6	5	ND	1	9	1	2	2	3	.19	.008	2	6	.08	127	.01	2	.19	.01	.10	2	2
BR-31-1 31582	1	10	7	44	.4	10	12	634	3.59	2	5	ND	1	104	1	2	2	61	2.36	.026	2	7	.80	35	.01	3	.35	.01	.01	1	2
BR-31-1 31583	1	46	20	52	.1	12	4	263	2.30	3	5	ND	3	5	1	2	2	7	.14	.010	12	8	.43	193	.01	2	.76	.01	.09	1	2
BR-31-1 31586	2	30	5	8	.1	21	8	352	1.61	5	5	ND	2	5	1	2	2	4	.06	.009	3	6	.04	133	.01	10	.22	.01	.11	3	1
BR-31-1 31587	1	150	3	139	.3	26	19	1293	7.64	2	5	ND	1	20	1	2	2	151	.71	.063	3	57	3.44	20	.38	2	4.16	.01	.01	1	5
BR-31-1 31985	1	9	2	8	.1	3	2	240	.85	3	5	ND	1	13	1	2	2	11	.51	.085	2	6	.05	209	.01	2	.11	.01	.01	3	5
BR-31-1 31986	3	102	8	64	.5	14	16	890	4.66	3	5	ND	1	166	1	2	2	87	3.95	.063	1	21	1.49	12	.05	5	.59	.04	.02	1	133
BR-31-1 31987	17	22	472	382	.9	4	2	189	2.14	23	5	ND	22	6	2	4	2	5	.03	.004	9	4	.02	11	.01	2	.24	.06	.02	1	7
BR-31-1 31988	1	166	9	89	.3	37	31	1109	7.55	32	5	ND	1	210	1	2	2	77	5.37	.044	4	22	2.23	75	.07	6	1.81	.01	.17	1	3
BR-31-1 31989	1	81	8	75	.1	19	11	659	3.88	2	5	ND	1	248	1	2	2	33	3.43	.021	2	11	.85	72	.01	3	1.26	.01	.17	1	8
BR-32-1 31112	2	21	14	40	.3	13	5	449	1.98	2	5	ND	2	3	1	2	2	12	.09	.009	3	10	.45	40	.01	3	.85	.01	.04	3	8
BR-32-1 31113	11	45	29	70	.1	21	7	801	2.85	2	5	ND	1	14	1	2	2	31	.24	.021	8	14	.68	102	.01	4	1.14	.01	.05	1	13
BR-32-1 31114	2	19	10	49	.1	8	2	278	2.37	2	5	ND	2	3	1	2	2	19	.05	.019	8	9	.45	38	.01	2	.78	.01	.03	2	18
BR-32-1 31138	1	146	10	77	.7	41	22	1131	6.64	9	5	ND	1	200	1	2	2	96	8.85	.047	3	38	2.60	38	.01	2	1.39	.02	.06	1	17
BR-32-1 31246	38	48	222	113	.7	36	9	1484	3.55	2	5	ND	1	63	1	2	2	32	2.22	.017	4	12	1.00	45	.01	2	1.28	.02	.06	1	5
BR-32-1 31505	1	196	5	77	.6	56	24	788	5.67	9	5	ND	1	41	1	2	2	104	2.06	.043	4	80	2.55	11	.25	2	3.54	.01	.03	1	4
BR-32-1 31512	4	83	43	153	.8	56	5	519	1.51	7	5	ND	1	169	1	2	2	15	5.34	.020	4	15	.49	23	.01	5	.31	.01	.06	2	6
BR-32-1 31613	5	54	7	37	.3	28	9	278	2.01	3	5	ND	1	7	1	2	2	45	.62	.046	4	19	1.11	61	.03	2	1.14	.01	.05	1	4
BR-33-1 31272	2	102	7	55	.3	28	16	489	4.68	17	5	ND	1	47	1	2	2	130	1.92	.029	2	40	1.62	7	.10	2	2.10	.01	.01	1	19
BR-33-1 31273	3	283	63	23	3.5	6	9	24	1.61	2	5	ND	9	5	1	2	59	2	.04	.016	11	5	.01	57	.01	6	.19	.03	.11	1	4
BR-33-1 31581	1	76	5	51	.1	7	11	1102	3.33	2	5	ND	1	136	1	2	2	48	1.70	.035	3	5	1.06	15	.01	2	.34	.02	.03	1	9
STD C/AU-R	18	62	41	132	6.7	67	31	957	4.14	41	21	7	38	50	18	15	23	59	.52	.090	39	56	.92	177	.07	37	2.03	.06	.13	12	530

APPENDIX II
Sample Summary

BARRINGTON RIVER (Day 3 to 6)

SAMPLE NO.	SAMPLE TYPE	DESCRIPTION	MINERALIZATION
BR-d5	31521	soil	
	31522	soil	
	31523	soil	
	31524	float phyllites, coarse grained qtz vein	1% diss py
	31525	o/c chlorite schist, epivolcanic clastics & seds	diss. po & py 1-2%, trace cpy &
BR-d6	31989	float rusty wht qtz vein 60cm wide w/ sericitetr to 5% py schist, angular not glacial	
	31990	o/c rusty graphitic fault in metaseds. intense limonite+jarosite+graphite	
	31990	silt	

APPENDIX III

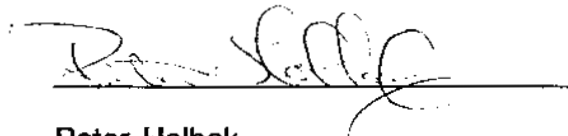
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Peter Holbek, DO HEREBY CERTIFY THAT:

- 1) I am a project geologist presently employed by Homestake Mineral Development Company located at 1000 - 700 West Pender Street, Vancouver, B.C. V6C 1G8
- 2) I graduated from the University of British Columbia with a B.Sc. (Hons.) in geology in 1980 and an M.Sc. in geology in 1988.
- 3) I have actively practiced my profession in North America since 1975.
- 4) The work described herein was done by me or under my direct supervision.

DATED THIS 8th DAY OF AUGUST, 1989 AT VANCOUVER, B.C.


Peter Holbek

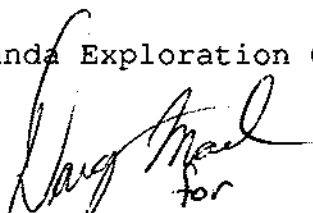
I, Robert G. Carmichael of 4058 West 32 Avenue, Vancouver B.C. do hereby state that:

- I graduated with a Bachelor of Applied Science in Geological Engineering in 1987 from the University of British Columbia;

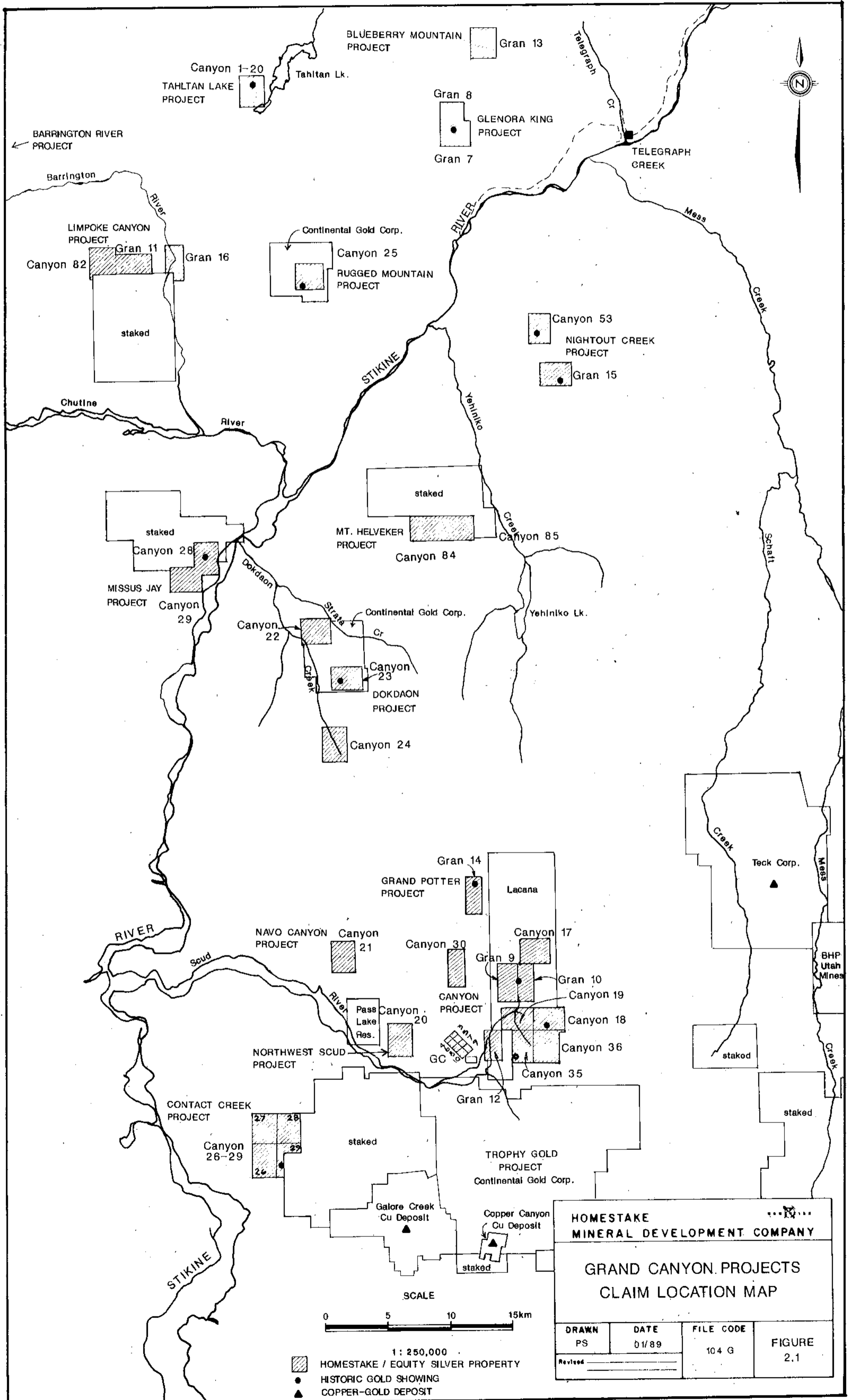
- I have been employed by Homestake Mineral Development Company since May of 1989;

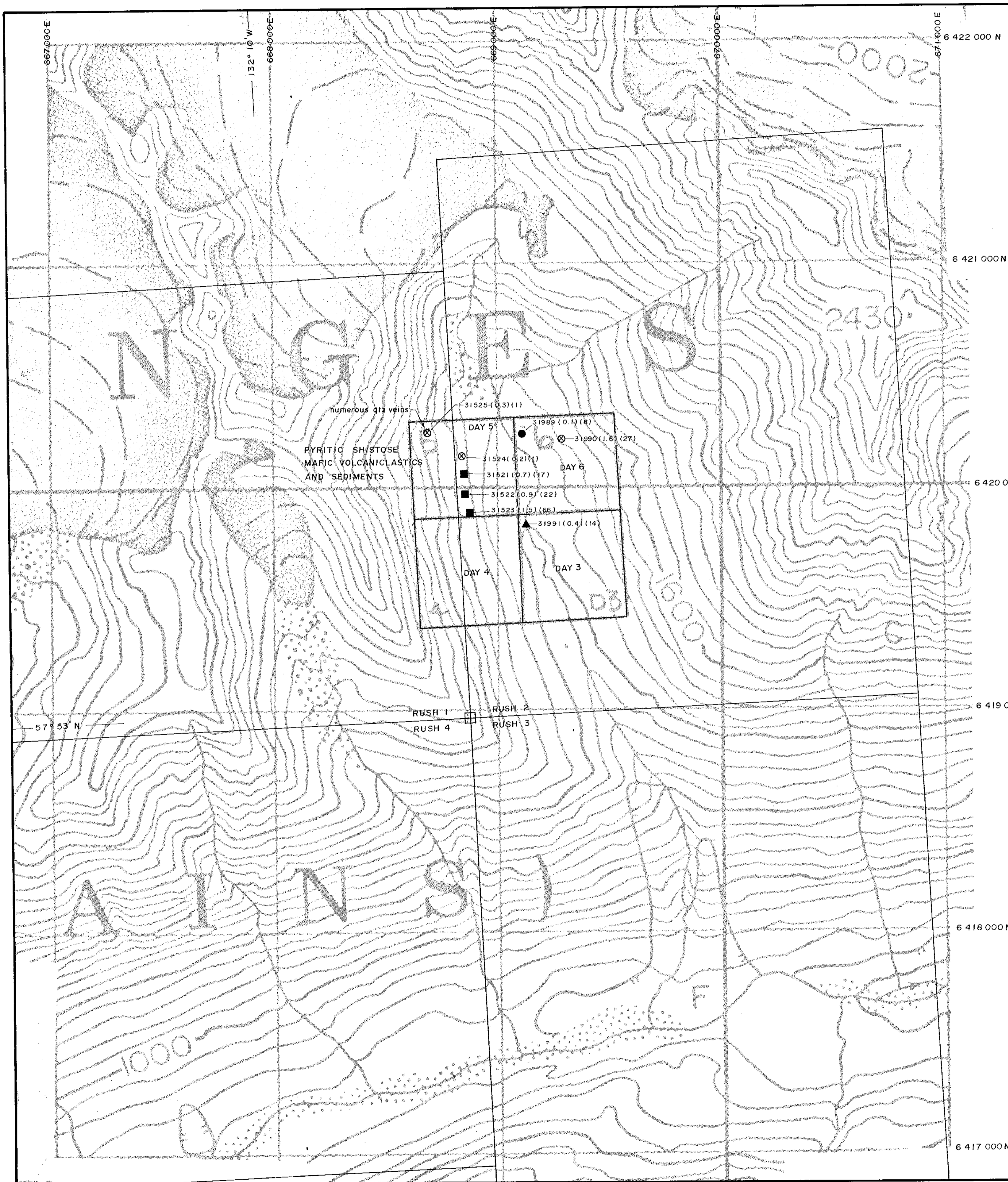
- I was employed by Esso Minerals Canada Limited from May 1987 to February 1989;

- I was employed by Noranda Exploration Company during the summer months of 1985 and 1986.


for
Robert G. Carmichael
July 27 1989

19,079



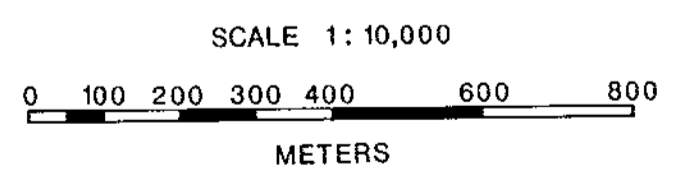


LEGEND

- ⊗ Rock Sample
 - ▲ Silt
 - Soil
 - Heavy Mineral
 - Mapping Station
 - Geological Contact/Limit of Outcrops
 - /// Fault
 - Outcrop
- Ag-ppm Au-ppb
- ⊗ 31395 (0.5) (93)
Sample Number
Sample Site
 - 31395 (0.5) (93)
(1000) (10000) Heavy Mineral - 150 mesh
(500) (2000) Heavy Mineral - 60 + 150 mesh
 - Py Pyrite
 - Po/Pr Pyrrhotite
 - Mg/Mag Magnetite
 - qtz vn Quartz Vein
 - Sil Silicified
 - EP Epidote
 - Bi Biotite
 - cp Calcopryrite
 - F.G Fine Grained

GEOLOGICAL BRANCH
MINERAL DEVELOPMENT REPORT

19,079



HOMESTAKE MINERAL DEVELOPMENT COMPANY BARRINGTON RIVER PROPERTY B.C. (DAY 3,4,5,6)			
GEOLOGY AND SAMPLE LOCATIONS			
DRAWN P.H.	DATE JULY, 27, 1989	FILE CODE 104 F/16	FIG. 4.1
Revised _____			