093888

Geological Report On

328 Claims in the Anvil District, including:
3 Carol, 1 Da, 89 Gal, 2 Heck, 3 Hek, 3 Joe,
22 Kay, 7 Ko, 10 Lea, 13 Miami, 4 Mo, 1 Que Fr,
5 Rich, 4 Roc, 100 Rv, 2 Sb, 8 Sea, 22 Sun,
12 Swim, 4 Tie, 11 Whi Fr., and 2 Whif Fr.,
Grant Numbers Listed Herein

Located on

Claim Sheets 105/K/02,03,05,06 & 07

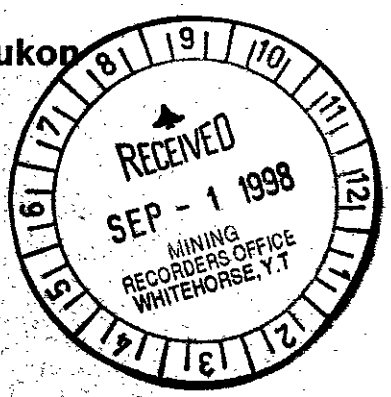
at

Latitude 62°18' N Longitude 133°15' W

Owned by

Anvil Range Mining Corporation

Whitehorse Mining District, Yukon



Report prepared by

Gregg A. Jilson,
Access Mining Consultants Ltd.

1 September 1998

Work completed 1 August 1997 to 28 February 1998

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 19,000 .

M. Burk

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

0118- 76160

Geological Report On

328 Claims in the Anvil District, including: 3 Carol, 1 Da, 89 Gal, 2 Heck, 3 Hek, 3 Joe, 22 Kay, 7 Ko, 10 Lea, 13 Miami, 4 Mo, 1 Que Fr, 5 Rich, 4 Roc, 100 Rv, 2 Sb, 8 Sea, 22 Sun, 12 Swim, 4 Tie, 11 Whi Fr., and 2 Whif Fr., Grant Numbers Listed Herein

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Plate 5	Map sheet E6E	scale 1:10,000
Plate 6	Map sheet F6W	scale 1:10,000
Plate 7	Map sheet F6E	scale 1:10,000
Plate 8	Map sheet G6W	scale 1:10,000
Plate 9	Map sheet G6E	scale 1:10,000
Plate 10	Claim sheet 105K02,03,05,06,07	scale 1:31,680

INTRODUCTION

This report describes work on a geological compilation begun in August 1997 on behalf of Anvil Range Mining Corporation. The purpose of the project was to compile all available geological mapping covering the claims and vicinity, to coordinate the map units used, and to compile all available drill holes. Such a compilation had not been undertaken since the late 1970's; since then much additional work had been done and some fundamentally new structural concepts had been developed which were not adequately integrated with the district wide geology. An additional objective was to integrate the results of detailed airborne geophysical survey (electromagnetic and magnetic surveys) flown in 1996. The ultimate purpose of the project was to update the geological interpretation of the district preparatory to target selection for a planned phase of exploration work which was to include deep exploration drilling.

This project was to be a continuing programme through 1997 and 1998 but was terminated in early 1998 due to financial difficulties of Anvil Range Mining Corporation. This work describes the status of the work completed between August 1, 1997 and February 28, 1998, when the project was terminated.

LOCATION AND ACCESS

The claims concerned are located 210 km northeast of Whitehorse and 25 km north of Faro Yukon at Latitude 62°18' N Longitude 133°15' W (Figure 1). The center of the claim block is just north of the town of Faro. The claims are a portion of a 2,484 claim contiguous block shown on Figure 2.

Access to the Anvil District is by all weather highway from Whitehorse (340 km) to the town of Faro and locally by a well developed secondary pad network.

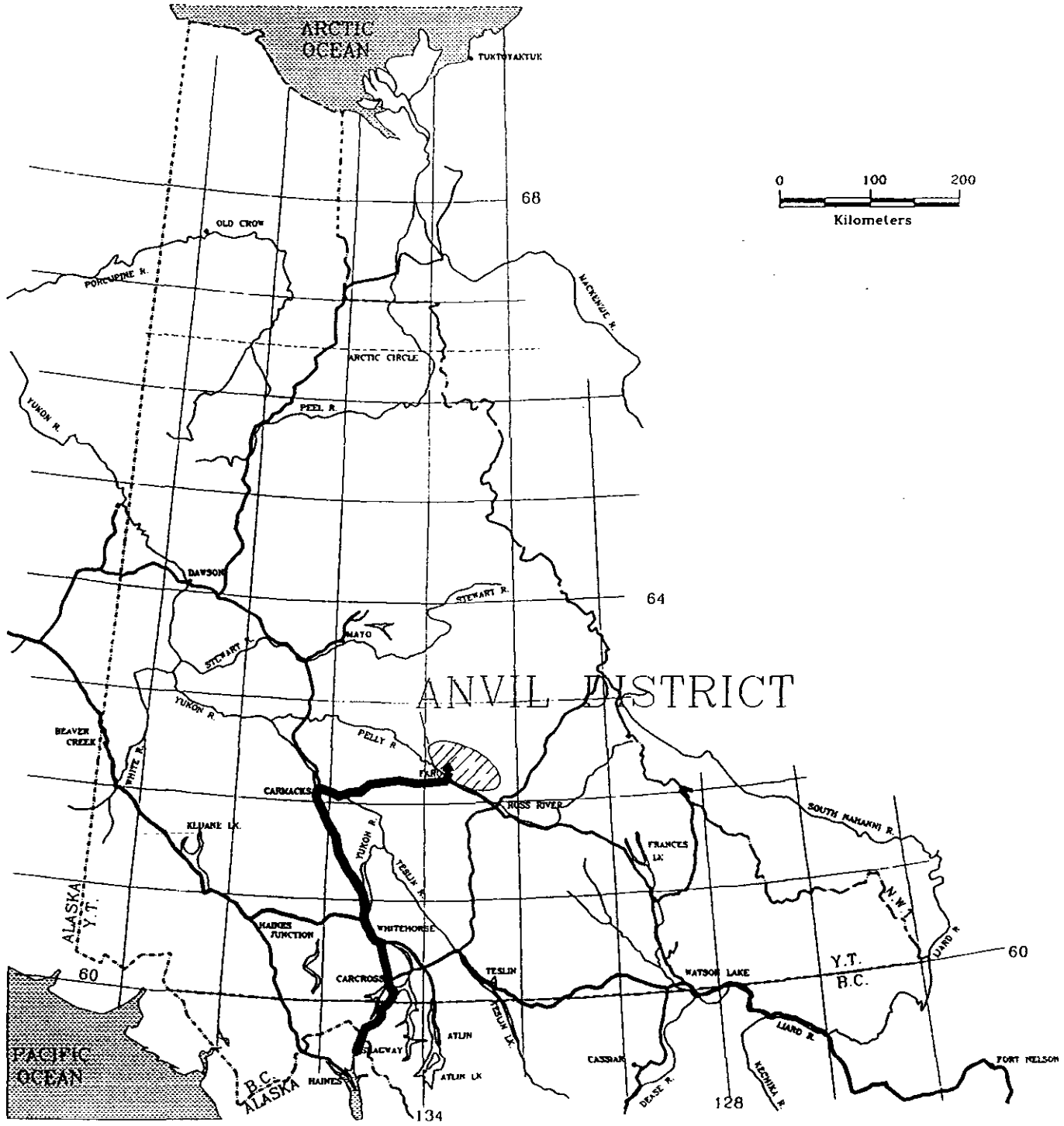


Figure 1. Location of the Anvil Range Lead-Zinc-Silver District near Faro, central Yukon Concentrate is hauled to tidewater at Skagway Alaska along the Campbell and Klondike Highways, the route is shown as a heavy line.

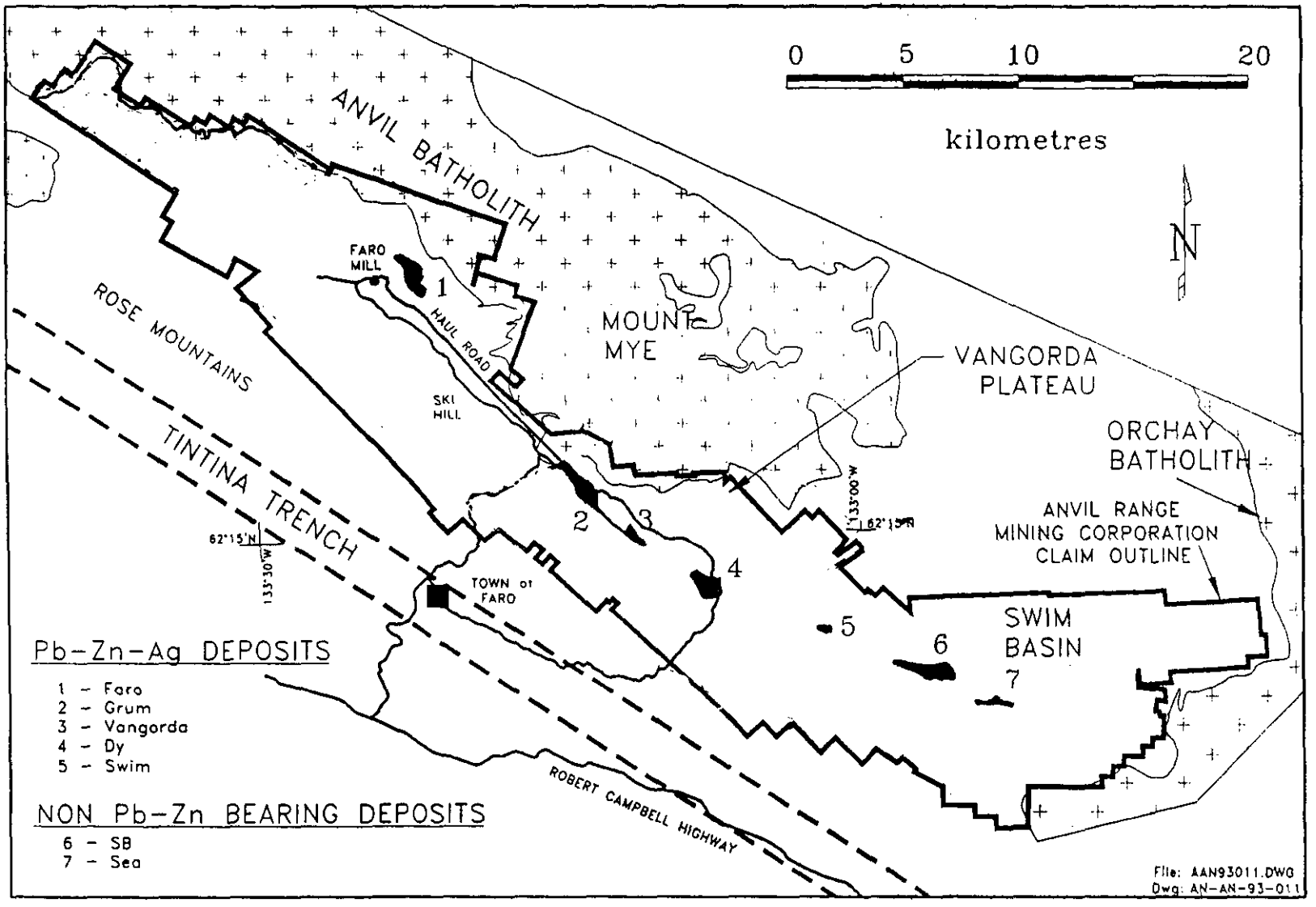


FIGURE 2 – CLAIMS OF ANVIL RANGE MINING CORPORATION IN THE ANVIL DISTRICT

CLAIMS

The claims are owned by several companies and are under option to, and managed by, Anvil Range Mining Corporation on behalf of whom the work was done. The claims are listed in Table 1.

Table 1
List of Claims

grant	claim	owner	location	claim sheet	years applied	expiry date
85511	SWIM 1	ARMC	Blind Creek area	105K3	1	01-Mar-98
85512	SWIM 2	ARMC	Blind Creek area	105K3	1	01-Mar-98
85527	SWIM 17	ARMC	Blind Creek area	105K3	1	01-Mar-98
85528	SWIM 18	ARMC	Blind Creek area	105K3	1	01-Mar-98
85543	SWIM 33	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
85544	SWIM 34	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
85545	SWIM 35	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
85546	SWIM 36	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
85555	SWIM 45	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
85556	SWIM 46	ARMC	Blind Creek area	105K3	1	01-Mar-98
85557	SWIM 47	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
85558	SWIM 48	ARMC	Blind Creek area	105K3	1	01-Mar-98
85688	JOE 10	PRM	Rose Creek area	105K6	1	01-Mar-98
85690	JOE 12	PRM	Rose Creek area	105K6	1	01-Mar-98
85692	JOE 14	PRM	Rose Creek area	105K6	1	01-Mar-98
85739	TIE 21	PRM	Vangorda Creek area	105K6	1	01-Mar-98
85740	TIE 22	PRM	Vangorda Creek area	105K6	1	01-Mar-98
85741	TIE 23	PRM	Vangorda Creek area	105K6	1	01-Mar-98
85742	TIE 24	PRM	Vangorda Creek area	105K6	1	01-Mar-98
86133	SEA 1	ARMC	Blind Creek area	105K2	1	01-Mar-98
86134	SEA 2	ARMC	Blind Creek area	105K2	1	01-Mar-98
86135	SEA 3	ARMC	Blind Creek area	105K2	1	01-Mar-98
86136	SEA 4	ARMC	Blind Creek area	105K2	1	01-Mar-98
86137	SEA 5	ARMC	Blind Creek area	105K2	1	01-Mar-98
86138	SEA 6	ARMC	Blind Creek area	105K2	1	01-Mar-98
86143	SEA 11	ARMC	Blind Creek area	105K2	1	01-Mar-98
86144	SEA 12	ARMC	Blind Creek area	105K2	1	01-Mar-98
86260	LEA 1	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86262	LEA 3	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86263	LEA 4	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86264	LEA 5	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86266	LEA 7	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86268	LEA 9	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86270	LEA 11	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86271	LEA 12	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86272	LEA 13	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
86279	LEA 20	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92021	GAL 1	ARMC	Rose Creek area	105K6	1	01-Mar-98
92022	GAL 2	ARMC	Rose Creek area	105K6	1	01-Mar-98
92023	GAL 3	ARMC	Rose Creek area	105K6	1	01-Mar-98
92024	GAL 4	ARMC	Rose Creek area	105K6	1	01-Mar-98
92025	GAL 5	ARMC	Rose Creek area	105K6	1	01-Mar-98
92026	GAL 6	ARMC	Rose Creek area	105K6	1	01-Mar-98
92027	GAL 7	ARMC	Rose Creek area	105K6	1	01-Mar-98
92028	GAL 8	ARMC	Rose Creek area	105K6	1	01-Mar-98
92033	GAL 13	ARMC	Rose Creek area	105K6	1	01-Mar-98
92034	GAL 14	ARMC	Rose Creek area	105K6	1	01-Mar-98
92035	GAL 15	ARMC	Rose Creek area	105K6	1	01-Mar-98
92036	GAL 16	ARMC	Rose Creek area	105K6	1	01-Mar-98
92037	GAL 17	ARMC	Rose Creek area	105K6	1	01-Mar-98
92038	GAL 18	ARMC	Rose Creek area	105K6	1	01-Mar-98
92039	GAL 19	ARMC	Rose Creek area	105K6	1	01-Mar-98
92040	GAL 20	ARMC	Rose Creek area	105K6	1	01-Mar-98
92594	KAY 5	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92596	KAY 7	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92597	KAY 8	ARMC	Blind Creek area	105K2/3	1	01-Mar-98

Table 1
List of Claims

grant	claim	owner	location	claim sheet	years applied	expiry date
92598	KAY 9	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92599	KAY 10	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92600	KAY 11	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92601	KAY 12	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92602	KAY 13	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92603	KAY 14	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92604	KAY 15	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92605	KAY 16	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92606	KAY 17	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92607	KAY 18	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92610	KAY 21	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92611	KAY 22	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92612	KAY 23	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92613	KAY 24	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92614	KAY 25	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92615	KAY 26	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92616	KAY 31	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
92681	SUN 37	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92683	SUN 39	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92684	SUN 40	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92685	SUN 41	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92686	SUN 42	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92687	SUN 43	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92689	SUN 45	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92690	SUN 46	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92691	SUN 47	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92692	SUN 48	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
92707	SUN 61	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92710	SUN 64	ARMC	Vangorda Creek area	105K3/6	1	01-Mar-98
92711	SUN 65	ARMC	Vangorda Creek area	105K3/6	1	01-Mar-98
92712	SUN 66	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92713	SUN 67	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92714	SUN 68	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92715	SUN 69	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92716	SUN 70	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92717	SUN 71	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92718	SUN 72	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92719	SUN 73	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92720	SUN 74	ARMC	Vangorda Creek area	105K3	1	01-Mar-98
92737	CAROL 1	ARMC	Blind Creek area	105K3	1	01-Mar-98
92738	CAROL 2	ARMC	Blind Creek area	105K3	1	01-Mar-98
92739	CAROL 3	ARMC	Blind Creek area	105K3	1	01-Mar-98
93305	GAL 164	ARMC	Rose Creek area	105K6	1	01-Mar-98
93306	GAL 165	ARMC	Rose Creek area	105K6	1	01-Mar-98
93307	GAL 166	ARMC	Rose Creek area	105K6	1	01-Mar-98
93308	GAL 167	ARMC	Rose Creek area	105K6	1	01-Mar-98
93309	GAL 168	ARMC	Rose Creek area	105K6	1	01-Mar-98
93310	GAL 169	ARMC	Rose Creek area	105K6	1	01-Mar-98
93311	GAL 170	ARMC	Rose Creek area	105K6	1	01-Mar-98
93312	GAL 171	ARMC	Rose Creek area	105K6	1	01-Mar-98
93313	GAL 172	ARMC	Rose Creek area	105K6	1	01-Mar-98
93314	GAL 173	ARMC	Rose Creek area	105K6	1	01-Mar-98
93315	GAL 174	ARMC	Rose Creek area	105K6	1	01-Mar-98
93316	GAL 175	ARMC	Rose Creek area	105K6	1	01-Mar-98
93317	GAL 176	ARMC	Rose Creek area	105K6	1	01-Mar-98
93318	GAL 177	ARMC	Rose Creek area	105K6	1	01-Mar-98

Table 1
List of Claims

grant	claim	owner	location	claim sheet	years applied	expiry date
93329	GAL 188	ARMC	Rose Creek area	105K6	1	01-Mar-98
93330	GAL 189	ARMC	Rose Creek area	105K6	1	01-Mar-98
93331	GAL 190	ARMC	Rose Creek area	105K6	1	01-Mar-98
93332	GAL 191	ARMC	Rose Creek area	105K6	1	01-Mar-98
93333	GAL 192	ARMC	Rose Creek area	105K6	1	01-Mar-98
93334	GAL 193	ARMC	Rose Creek area	105K6	1	01-Mar-98
93335	GAL 194	ARMC	Rose Creek area	105K6	1	01-Mar-98
93336	GAL 195	ARMC	Rose Creek area	105K6	1	01-Mar-98
93337	GAL 196	ARMC	Rose Creek area	105K6	1	01-Mar-98
93338	GAL 197	ARMC	Rose Creek area	105K6	1	01-Mar-98
93339	GAL 198	ARMC	Rose Creek area	105K6	1	01-Mar-98
93340	GAL 199	ARMC	Rose Creek area	105K6	1	01-Mar-98
93341	GAL 200	ARMC	Rose Creek area	105K6	1	01-Mar-98
93342	GAL 201	ARMC	Rose Creek area	105K6	1	01-Mar-98
93343	GAL 202	ARMC	Rose Creek area	105K6	1	01-Mar-98
93344	GAL 203	ARMC	Rose Creek area	105K6	1	01-Mar-98
93345	GAL 204	ARMC	Rose Creek area	105K6	1	01-Mar-98
93346	GAL 205	ARMC	Rose Creek area	105K6	1	01-Mar-98
93347	GAL 206	ARMC	Rose Creek area	105K6	1	01-Mar-98
93348	GAL 207	ARMC	Rose Creek area	105K6	1	01-Mar-98
93351	GAL 210	ARMC	Rose Creek area	105K6	1	01-Mar-98
93352	GAL 211	ARMC	Rose Creek area	105K6	1	01-Mar-98
93353	GAL 212	ARMC	Rose Creek area	105K6	1	01-Mar-98
93354	GAL 213	ARMC	Rose Creek area	105K6	1	01-Mar-98
93355	GAL 214	ARMC	Rose Creek area	105K6	1	01-Mar-98
93356	GAL 215	ARMC	Rose Creek area	105K6	1	01-Mar-98
93357	GAL 216	ARMC	Rose Creek area	105K6	1	01-Mar-98
93358	GAL 217	ARMC	Rose Creek area	105K6	1	01-Mar-98
93359	GAL 218	ARMC	Rose Creek area	105K6	1	01-Mar-98
93360	GAL 219	ARMC	Rose Creek area	105K6	1	01-Mar-98
93361	GAL 220	ARMC	Rose Creek area	105K6	1	01-Mar-98
93362	GAL 221	ARMC	Rose Creek area	105K6	1	01-Mar-98
93363	GAL 222	ARMC	Rose Creek area	105K6	1	01-Mar-98
93364	GAL 223	ARMC	Rose Creek area	105K6	1	01-Mar-98
93365	GAL 224	ARMC	Rose Creek area	105K6	1	01-Mar-98
93366	GAL 225	ARMC	Rose Creek area	105K6	1	01-Mar-98
93367	GAL 226	ARMC	Rose Creek area	105K6	1	01-Mar-98
93368	GAL 227	ARMC	Rose Creek area	105K6	1	01-Mar-98
93369	GAL 228	ARMC	Rose Creek area	105K6	1	01-Mar-98
93370	GAL 229	ARMC	Rose Creek area	105K6	1	01-Mar-98
93371	GAL 230	ARMC	Rose Creek area	105K6	1	01-Mar-98
93372	GAL 231	ARMC	Rose Creek area	105K6	1	01-Mar-98
93373	GAL 232	ARMC	Rose Creek area	105K6	1	01-Mar-98
93374	GAL 233	ARMC	Rose Creek area	105K6	1	01-Mar-98
93375	GAL 234	ARMC	Rose Creek area	105K6	1	01-Mar-98
93376	GAL 235	ARMC	Rose Creek area	105K6	1	01-Mar-98
93377	GAL 236	ARMC	Rose Creek area	105K6	1	01-Mar-98
93378	GAL 237	ARMC	Rose Creek area	105K6	1	01-Mar-98
93379	GAL 238	ARMC	Rose Creek area	105K6	1	01-Mar-98
93380	GAL 239	ARMC	Rose Creek area	105K6	1	01-Mar-98
93381	GAL 240	ARMC	Rose Creek area	105K6	1	01-Mar-98
93388	GAL 247	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
93389	GAL 248	ARMC	Vangorda Creek area	105K5/6	1	01-Mar-98
93393	GAL 253	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
93394	GAL 254	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
93436	RICH 41	ARMC	Vangorda Creek area	105K6	1	01-Mar-98

Table 1
List of Claims

grant	claim	owner	location	claim sheet	years applied	expiry date
93437	RICH 42	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
93438	RICH 43	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
93439	RICH 44	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
93440	RICH 45	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y01300	WHI 44 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y01301	WHI 45 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y01302	WHI 46 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y01303	WHI 47 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y01304	WHI 48 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y01305	WHI 49 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y01306	WHI 50 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y04382	WHI 130 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y04383	WHI 131 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y04384	WHI 132 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y04385	WHI 133 FR	ARMC	Vangorda Creek area	105K6	1	01-Mar-98
Y08040	WHIF 143 FR	ARMC	Blind Creek area	105K2	1	01-Mar-98
Y08041	WHIF 144 FR	ARMC	Blind Creek area	105K2	1	01-Mar-98
Y08071	KAY 43	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
Y08072	KAY 44	ARMC	Blind Creek area	105K2/3	1	01-Mar-98
Y10577	QUE 18 FR	PRM	Rose Creek area	105K6	1	01-Mar-98
Y25568	HECK 23	ARMC	Rose Creek area	105K5/6	1	01-Mar-98
Y25569	HECK 24	ARMC	Rose Creek area	105K5/6	1	01-Mar-98
Y29771	DA 3	ARMC	Rose Creek area	105K5	1	01-Mar-98
Y60723	MO 1	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y60724	MO 2	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y60725	MO 3	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y60726	MO 4	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y67951	KO 1	BML-CREAM	Rose Creek area	105K6	1	01-Mar-98
Y67953	KO 3	BML-CREAM	Rose Creek area	105K6	1	01-Mar-98
Y67955	KO 13	BML-CREAM	Rose Creek area	105K6	1	01-Mar-98
Y67957	KO 5	BML-CREAM	Rose Creek area	105K6	1	01-Mar-98
Y67959	KO 7	BML-CREAM	Rose Creek area	105K6	1	01-Mar-98
Y67961	KO 9	BML-CREAM	Rose Creek area	105K6	1	01-Mar-98
Y67963	KO 11	BML-CREAM	Rose Creek area	105K6	1	01-Mar-98
Y75826	SB 17	ARMC	Blind Creek area	105K2	1	01-Mar-98
Y75827	SB 18	ARMC	Blind Creek area	105K2	1	01-Mar-98
Y78030	ROC 3	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y78031	ROC 4	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y78032	ROC 5	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y78033	ROC 6	ARMC	Rose Creek area	105K6	1	01-Mar-98
Y79354	MIAMI 1	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79355	MIAMI 2	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79356	MIAMI 3	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79357	MIAMI 4	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79358	MIAMI 5	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79359	MIAMI 6	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79360	MIAMI 7	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79361	MIAMI 8	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79362	MIAMI 9	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79363	MIAMI 10	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79364	MIAMI 11	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79365	MIAMI 12	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y79366	MIAMI 13	GLAMIS	Rose Creek area	105K6	1	01-Mar-98
Y93371	HEK 1	ARMC	Rose Creek area	105K5	1	01-Mar-98
Y93372	HEK 2	ARMC	Rose Creek area	105K5	1	01-Mar-98
Y93374	HEK 4	ARMC	Rose Creek area	105K5	1	01-Mar-98

Table 1
List of Claims

grant	claim	owner	location	claim sheet	years applied	expiry date
YA08153	GAL 261	ARMC	Rose Creek area	105K6	1	01-Mar-98
YA08155	GAL 263	ARMC	Rose Creek area	105K6	1	01-Mar-98
YA08156	GAL 264	ARMC	Rose Creek area	105K6	1	01-Mar-98
YA08157	GAL 265	ARMC	Rose Creek area	105K6	1	01-Mar-98
YB12498	RV 1	ARMC	Rose Creek area	105K6	1	01-Dec-98
YB12499	RV 2	ARMC	Rose Creek area	105K6	1	01-Dec-98
YB12540	RV 43	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12541	RV 44	ARMC	Rose Creek area	105K6	1	01-Dec-98
YB12542	RV 45	ARMC	Rose Creek area	105K6	1	01-Dec-98
YB12557	RV 60	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12558	RV 61	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12559	RV 62	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12560	RV 63	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12561	RV 64	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12562	RV 65	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12563	RV 66	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12564	RV 67	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12565	RV 68	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12566	RV 69	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12567	RV 70	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12568	RV 71	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12569	RV 72	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12570	RV 73	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12571	RV 74	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12572	RV 75	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12573	RV 76	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12574	RV 77	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12575	RV 78	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12576	RV 79	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12577	RV 80	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12578	RV 81	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12579	RV 82	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12580	RV 83	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12581	RV 84	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12582	RV 85	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12583	RV 86	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12584	RV 87	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12585	RV 88	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12586	RV 89	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12587	RV 90	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12588	RV 91	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12589	RV 92	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12602	RV 104	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12603	RV 105	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12604	RV 106	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12605	RV 107	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12606	RV 108	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12607	RV 109	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12608	RV 110	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12609	RV 111	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12610	RV 112	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12611	RV 113	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12612	RV 114	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12613	RV 115	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12614	RV 116	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12615	RV 117	ARMC	Rose Creek area	105K5	1*	01-Dec-97

Table 1
List of Claims

grant	claim	owner	location	claim sheet	years applied	expiry date
YB12616	RV 118	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12617	RV 119	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12618	RV 120	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12619	RV 121	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12620	RV 122	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12621	RV 123	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12622	RV 124	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12623	RV 125	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12624	RV 126	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12625	RV 127	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12626	RV 128	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12627	RV 129	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12628	RV 130	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12629	RV 131	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12630	RV 132	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12631	RV 133	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12632	RV 134	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12633	RV 135	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12634	RV 136	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12635	RV 137	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12636	RV 138	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12637	RV 139	ARMC	Rose Creek area	105K5	1	01-Dec-98
YB12638	RV 140	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12639	RV 141	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12640	RV 142	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12641	RV 143	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12642	RV 144	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12643	RV 145	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12644	RV 146	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12645	RV 147	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12646	RV 148	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12647	RV 149	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12648	RV 150	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12649	RV 151	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12650	RV 152	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12651	RV 153	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12652	RV 154	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12653	RV 155	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12654	RV 156	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12655	RV 157	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12656	RV 158	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12657	RV 159	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12658	RV 160	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12659	RV 161	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12660	RV 162	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12661	RV 163	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12662	RV 164	ARMC	Rose Creek area	105K5	1*	01-Dec-97
YB12663	RV 165	ARMC	Rose Creek area	105K5	1*	01-Dec-97

* = The year applied for here is additional to one year applied for on 1 Dec 1997 and reported on 1 June 98

ARMC	Claims registered in name of Anvil Range Mining Corporation
PRM	Claims registered in name of Pelly River Mines Limited
GLAMIS	Claims registered in name of Glamis Gold and optioned to Anvil Range Mining Corporation
BML-CREAM	Claims registered in name of Belmoral Mines & Cream Silver Mines and optioned to ARMC

REGIONAL SETTING

The geology of the Anvil Range has been described by Roddick and Green (1961), Templeman-Kluit (1972) and most recently by Gordey (1983) and Gordey and Irwin (1987). Jennings and Jilson (1986) and Pigage (1990b) summarized the geology of the district and it's orebodies based on work by staff of Cyprus Anvil Mining Corporation.

The claims are underlain by meta-sedimentary rocks of lower Paleozoic and possibly late Hadrynian age. The meta-sedimentary sequence is an outboard extension of the basinal stratigraphy much better documented toward the northeast (Gordey 1992). To the southwest of the claim block are examples of the younger Paleozoic section similar to that of Selwyn Basin including probable equivalents of the Road River Group, Earn Group and Anvil Range Group.

The meta-sedimentary rocks host several stratiform massive, pyritic, lead-zinc-silver orebodies. Parts of the claim group are underlain by rocks younger than these orebodies, thus there is still good potential for additional discoveries of similar mineralization. This is particularly true in the area northwest of the Faro minesite. Despite the long exploration history of the area, there are relatively few drill holes in the area away from the known ore deposits, and only a fraction of these holes were drilled deep enough to test the stratigraphy currently considered favorable for occurrence of the massive sulphide orebodies.

WORK PROGRAM

INTRODUCTION

The work program required a topographic base that covered the entire area, yet was consistent with the latest operating grid coordinate system. This proved to be a challenge, as outlined below. All geological information used was that already accumulated by Anvil Range or the previous owners of the claim block and a few other companies active in the area such as Welcome North Mines and Atlas Exploration. No new mapping was done but the information was reevaluated in light of a vastly improved and still evolving knowledge of the stratigraphy and structure of the district.

The degree to which the project was completed varies. Nowhere was a final product realized. In the northwest sheets C6 and D6, both have preliminary interpretations of all available geology – sheet E6 has only Cyprus Anvil's 1972-1981 mapping compiled and no interpretation was done. Recent mapping by Pigage (1990a) has not yet been compiled. Only a topographic and claims base was prepared for sheets F6 and G6 in the southeast part of the district.

It was hoped that a more final geological interpretation would be realized, in particular, cross sections would be completed, but the budget limitations imposed by the early termination did not allow that to be realized.

Staff involved included G.A. Jilson and L.C. Pigage, geologists, and Holly and Bob Stirling, draftspeople. Shortcomings of the project and this report are solely the responsibility of the author.

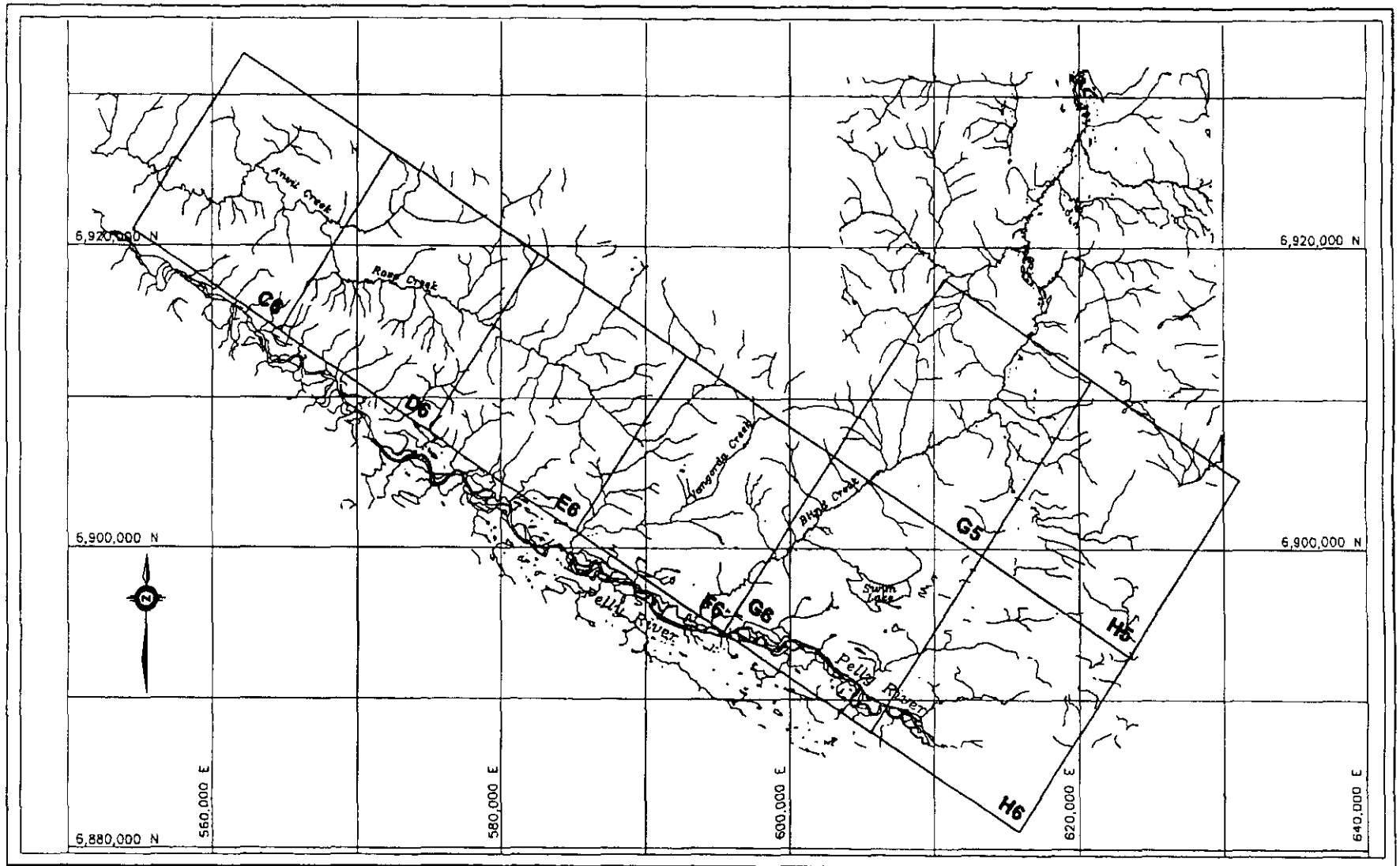
TOPOGRAPHY BASE, SURVEY CONTROL & COORDINATE SYSTEMS

Early exploration in the Anvil District was completed by different companies working on specific properties. Sampling stations, drill hole collar locations, outcrop stations, and geophysics stations were commonly referenced to local survey control grids. Some of these grids were properly surveyed; others consisted only of chained cut lines. With more extensive development work in some areas, a succession of survey control grids often have been utilized on the same property. Exploration locations in the District, therefore, are often referenced using a confusing matrix of historical coordinate systems of varying quality which have not been related to each other by conversion equations.

The first universal coordinate system for the Anvil District was completed in 1974 as part of the geology compilation initiated by Cyprus Anvil Mining Corporation ("CAMC"). A District orthophoto was produced at 1:12,000 scale. The underlying coordinate system was the Yukon Territorial Plan ("YTP"). YTP coordinates were a North-South rectilinear system with the unit measure in both the N and E directions being feet (Imperial). CAMC created several map sheets at 1:12,000 scale to encompass the entire District. Locations of the map sheets are indicated in Figure 3. Although providing a universal coordinate base for the District, the YTP system was not universally adopted because all Federal 1:50,000 NTS maps and many subsequent exploration maps used metric coordinates.

In 1979 CAMC acquired control over all known deposits and mineral claims in the District. Northwest Survey Corporation (Yukon) Ltd. was contracted to complete a new control survey over the District. The survey was undertaken to provide horizontal and

vertical control for a new series of detailed orthophotos, to incorporate all previous local control surveys to a common datum, and to provide a universal basis for any future exploration and development activity.



LEGEND

ANVIL RANGE
MINING CORPORATION

1974 COMPILATION MAPS

Cyprus Anvil Mining Corporation

Access Mining Consultants Ltd.		
SCALE: 1:400,000	FILE: 74MAPAD.dwg	DATE: 28/02/88
DRAWN: LCF Edmonton	DWG:	FIGURE 3

All survey control points used in earlier local surveys, which could be located, were incorporated into this District survey. In addition several new survey control points and airphoto targets were established. Consequently all the known deposit areas were tied into a common control grid and elevation datum.

The 1979 Anvil District control survey was then tied into the international UTM (Universal Transverse Mercator) grid system using Canada Geodetic Survey control point in the Faro and Ross River areas. The locations of these control points were adjusted in mid-1979 using satellite control. The 1979 adjusted coordinates were then utilized in the Anvil District control survey.

The UTM grid is a rectilinear grid system with both N and E reference axes being measured in metres. UTM coordinates in the District control survey use the 1866 Clarke spheroid; the elevation datum is the geodetic surface based on the 1927 North American datum (NAD27). This surface corresponds to mean sea level. The Anvil District occurs in UTM zone 8. UTM grid north is rotated 1.57° from True North in a clockwise direction.

This orthophoto survey control has been used in all subsequent exploration activities in the Anvil District. It has continued to be used by Curragh and Anvil Range Mining Corporation. Earlier historical exploration data has been partially converted to the 1979 Anvil District survey control. In 1985 a nonlinear least-squares conversion equation was calculated for converting from YTP to 1979 CAMC UTM (Pigage, 1985). The conversion equations included expressions for translation, rotation, and scaling. The primary database for the least squares regression consisted of 47 survey control stations located throughout the Anvil district with locations known in both YTP coordinates and 1979

UTM coordinates. The nonlinear regression program MODFIT was used to calculate the best fit parameters for the NO, EO, scale factor, and rotation angle. Appendix 1 contains the conversion equations and summarizes the differences between calculated and measured UTM coordinates for the 47 control stations. In 1988 survey control was extended into the area northwest of Faro to Anvil Creek (Pigage, 1988). Subsequently the District control was further extended to the southeast into the south part of Swim Basin (Pigage, 1989).

The 1979 Anvil District survey control represents the most detailed coordinate system with full internal consistency for the District. It is a metric based system which is fully compatible with GPS instruments. Federal NTS maps for the District utilize the same coordinate base. All recent exploration data and portions of the earlier exploration data are recorded using the 1979 District survey control. For these reasons, the 1979 Anvil District survey control was selected as the preferred coordinate system for the present Anvil District geology compilation.

No attempt has been made to update and convert the Anvil District survey control to the more recent North American 1983 datum. Because of the large amount of historical data in the NAD27 datum, it was not considered appropriate to convert that data to NAD83.

MAP SHEETS

The 1974 CAMC geological compilation consisted of a set of 1:12,000 map sheets (Figure 3). These map sheets became the base design for all subsequent geological compilations. The 1974 geology maps with legends were drafted on Mylar. Internal

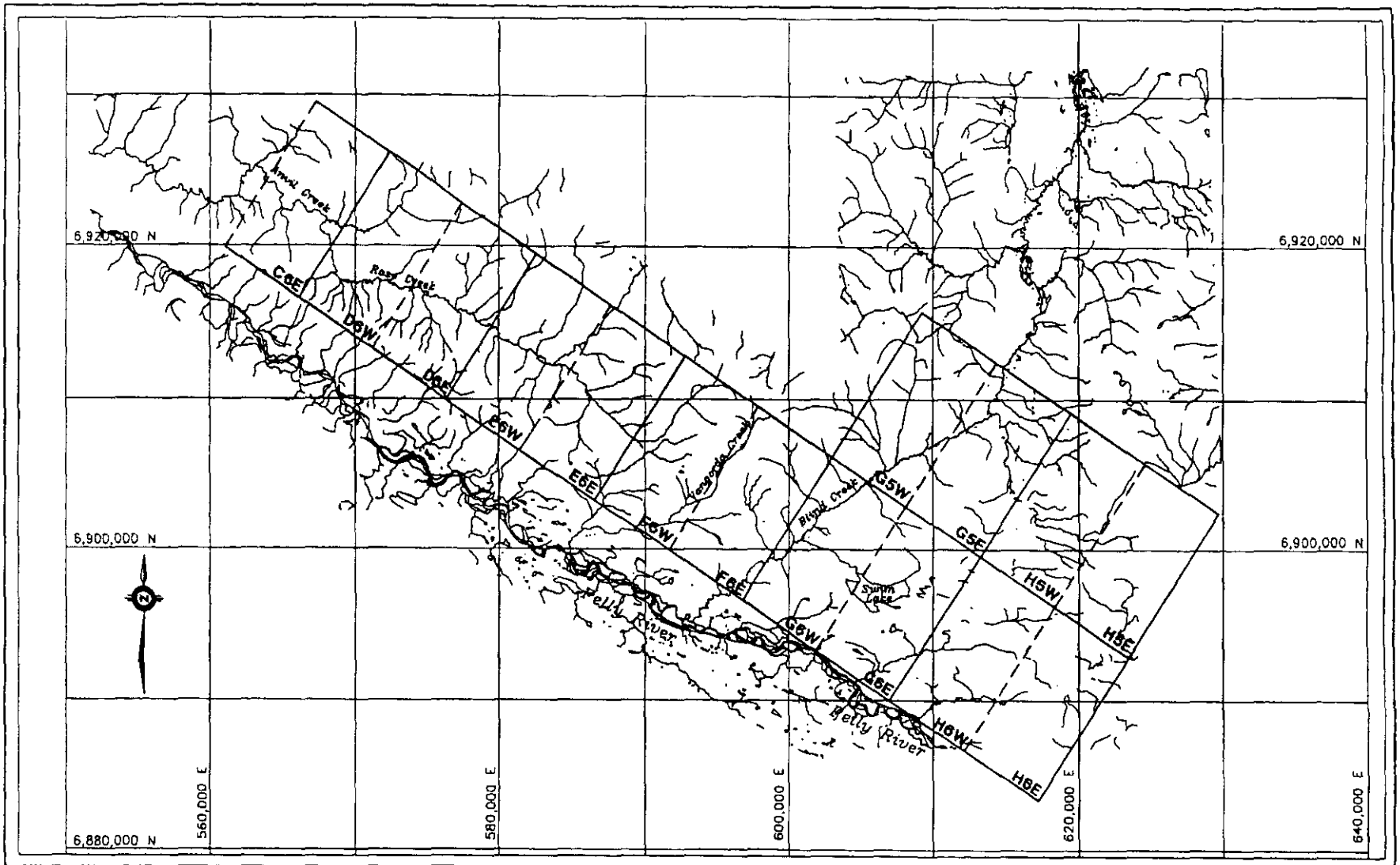
map dimensions of the compilation sheets were 46 inches long x 40 inches wide; overall dimensions with the legend included were oversized at 53 inches long x 42 inches wide. North on the map sheets was not parallel to the edges of the sheet because the geology of major interest had a northwest-southeast structural trend. Storage was troublesome, and custom storage units were required to hold the oversized maps.

The compilation maps presented with this report are designed to closely correspond to the original orientation and size of the 1974 CAMC compilation maps. Map scale is 1:10,000. Because of the scale, two of the present compilation maps represent a single sheet from the 1974 compilation maps. The new compilation maps also have the northwest-southeast angular orientation. Map sheet size is constrained to fit on standard E size cut sheets for ease in plotting and storage; this was accomplished by truncating the southwest limit of the map sheet most of which covered geology outside the Anvil Range stratigraphy proper (Figure 4).

The compilation maps in this report have been completed in digital/electronic form using Autodesk Map 2. The maps are fully compatible with Autocad r14. All work was completed on personal computers using either Windows95 or Windows NT 3.51/4.0.

INFRASTRUCTURE AND TOPOGRAPHY

Topography contours, lakes, streams, roads, survey control stations, and buildings are incorporated into the compilation maps from three either the 1:5,000 1979 CAMC UTM maps, the 1:12,000 1974 CAMC compilation maps, or the 1:50,000 NTS published map sheets. Table D lists the sources for the different types of information contained in the compilation maps.



LEGEND

ANVIL RANGE MINING CORPORATION

1998 COMPILATION MAPS

Anvil Range Mining Corporation

Access Mining Consultants Ltd.		
SCALE: 1:400,000	FILE: 98MAPAD.dwg	DATE: 26/02/98
DRAWN: LCP Consult	DWG:	FIGURE 4

Table D. Sources for topography, natural features, and cultural features in the compilation maps

Item	Source	Insertion Method
Survey Stations	1:5,000 1979 UTM	Inserted from tables
Roads, Buildings	1:5,000 1979 UTM	Digitized
Roads, Buildings	1:12,000 1974 YTP	Digitize, Floated
Roads, Buildings	1:50,000 NTS	Scanned, Floated
Streams, Lakes	1:5,000 1979 UTM	Digitized
Streams, Lakes	1:12,000 1974 YPT	Digitized, Floated
Streams, Lakes	1:50,000 NTS	Scanned, Floated
Topography Contours	1:50,000 NTS	Scanned, Floated

Roads, streams, and lakes are most accurately located on the 1:5,000 1979 CAMC UTM maps. Information from the 1:5,000 maps was preferentially digitized for inclusion in the present compilation maps. Since these maps have the same coordinate base as the compilation maps, no coordinate conversions are required during the digitizing process.

The 1979 1:5,000 orthophoto maps do not have complete coverage of the areas contained in the compilation maps. Roads, streams, and lakes from the 1974 1:12,000 scale maps were digitized where 1:5,000 map coverage was not available. Information from the 1:12,000 maps were digitized in 1979 UTM coordinates after calibrating the digitizing tablet using the conversion equations described above and presented in Appendix 1.

Part way into this digitizing process it was discovered that roads and streams digitized from the 1:12,000 maps did not exactly coincide with the same roads and streams as digitized from the 1:5,000 maps. No reasonable explanation for this discrepancy could be determined. As a result, however, all features digitized from the 1:12,000 scale maps had to be visually floated into the compilation maps so that the 1:5,000 data and the 1:12,000 data were compatible.

A universal manipulation of the 1:12,000 data for the entire Anvil District was not possible. Consequently the 1:12,000 roads, streams, and selected topographic contours from each of the sheets C6E, D6, E6, F6W, F6E, and G6 was visually floated separately into the compilation maps. Control for the visual floating was provided by 1:5,000 digitized roads and streams where they overlapped with the same 1:12,000 features. Records were kept of the exact sequence of rotations and translations required to make the 1:12,000 features closely correspond to the same 1:5,000 digitized features.

Topography contours from the published 1:50,000 NTS map sheets are considered sufficient for the final scale of the compilation maps. The appropriate Federal map sheets were scanned, and converted to Federal UTM coordinates. Because this coordinate system does not precisely correspond to the 1979 CAMC UTM coordinates, the contours had to be floated into the present compilation maps. A visual best fit for the contours in the compilation maps was achieved by matching roads, streams, and selected topographic contours to the same features as digitized from the 1:5,000 and 1:12,000 maps. Topographic contours for each of the compilation map sheets was visually floated separately. Since each of the sheets had a slightly different rotations and translation to achieve a visual best fit, the topographic contours did not match

exactly at the edges of adjacent map sheets. These edge effects were manually edited to provide consistent topographic contours between adjacent map sheets.

OUTCROPS, FIELD STATIONS, GEOLOGY CONTACTS, FAULTS, DRILL HOLE COLLARS, QUARTZ CLAIMS

Outcrop outlines, field geological stations, and geological contacts were digitized from 1:5,000, 1:12,00, and 1:50,000 maps using exactly the same procedures as described above for the streams, lakes, roads, and buildings. Geological data from the 1:5,000 maps were digitized directly after calibrating the digitizing tablet. Geological information from the 1:12,000 maps went through the same digitizing and then translation and rotation procedures as described above. Each separate map sheet had the digitized information rotated and translated using the same procedures outlined for the digitized stream, lake and road information.

All the geological information was digitized using the right hand rule. Right hand rule procedures would allow for the exporting of the Autocad Map 2 data into a full GIS system if desired.

Quartz claim and quartz claim group lines were digitized from 1:24,000 scale versions of the 1:12,000 1974 CAMC compilation maps. The digitizing tablet was calibrated using the Yukon Territorial Plane to 1979 UTM coordinate conversion equations presented in Appendix 1. The digitized information was then rotated and translated using the same scheme as outlined for the streams, lakes, roads, and buildings. In a few instances the claim lines were further adjusted slightly using field verified claim post locations digitized from the 1:5,000 orthophoto maps.

MAP UNITS

The stratigraphy of the district is described in Jennings & Jilson (1986); Figure 5 is a generalized stratigraphic column of the district.

Mt. Mye formation (HC_{mm}) consists of non-calcareous, biotite-muscovite ± andalusite ± staurolite ± garnet schist (HC_{mms}). It contains lesser, interlayered black carbonaceous phyllite or schist (HC_{mmgp}), calcitic marble (HC_{mml}), calc-silicate phyllite or schist (HC_{mmcs}), greenstone or amphibolite (HC_{mmb}), and psammitic schist. The formation has a structural thickness of at least 2 km, and the base is not exposed. The reddish brown weathering color of the formation is characteristic and helps distinguish it from non-calcareous portions of the overlying Vangorda formation.

Dark grey to black carbonaceous phyllite or schist members (HC_{mmgp}) comprises about 10 percent of the formation. They are more abundant in the upper 400 m of the formation. Regionally, a distinctive assemblage of carbonaceous siliceous phyllite and black carbonaeous limestone appears to underlie, or be laterally equivalent to the lowest sulphide horizons. This unit is not exposed in the map area.

Coarse-grained, white, calcite marble and calc-silicate also constitute about 10 percent of the Mt. Mye formation. The marble is light grey (HC_{mml}), medium crystalline calcite marble with boudins of pelite, amphibolite and calc-silicate. Marble bodies are generally only a few tens of meters thick in the map area. They can be traced laterally for approximately a kilometer. The calc-silicate lithology (HC_{mmcs}) is a thinly interbanded sequence of purplish brown biotite pelite and pale green actinoite-epidote calc-silicates.

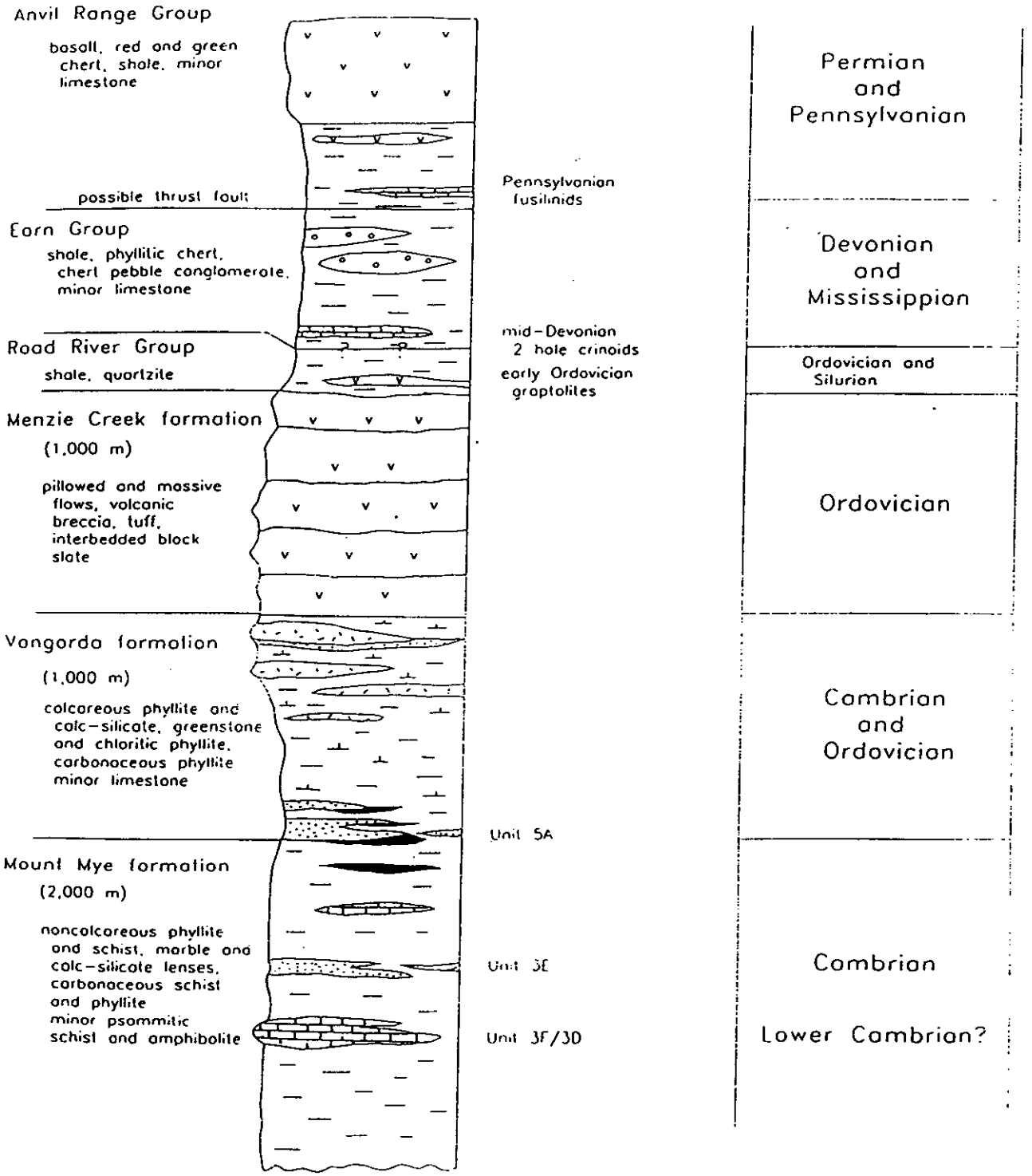


Figure 5 Schematic stratigraphic section for Anvil District Vangorda and Mt Mye formations contain carbonaceous phyllite (stipple-units 5A, 3E) interbanded with sulphide horizons (black) Sulphides form massive beds through a 200m stratigraphic interval straddling the Mt. Mye-Vangorda contact Upper Vangorda formation is characterized by abundant dark green greenstone lenses (hachure pattern)

Typically, the calc-silicates are spatially associated with the marbles. The calc-silicates are identical to Vangorda formation calc-silicates. Thus the formational assignment of Mt. Mye marbles and calc-silicate is locally unclear in the northwest portion of the district due to possible structural repetition of similar Vangorda formation units. Regionally, the most persistent horizon of lenticular marble and calc-silicate bodies occurs about 500 to 700 m below the top of the Mt. Mye formation.

Metabasite bodies in the Mt. Mye formation (HC_{mmb}) are generally only a few meters thick and have small lateral dimensions. Volumetrically they constitute less than one percent of the Mt. Mye formation. They are generally strong foliated, dark green amphibolites lacking relict igneous texture. Compositions are similar to basalts of the Menzie Creek formation (Jennings and Jilson, 1986). They are interpreted as subvolcanic feeder dykes and sills of the Menzie Creek basalts.

The Vangorda formation (CO_V) is characterized by light to medium grey to greenish grey, calcareous, phyllitic rocks made up of very thin (0.1-2 cm) interlayers of medium grey, non-calcareous, weakly carbonaceous, muscovite-chlorite pelite and light grey, generally calcareous quartz-calcite ± dolomite siltstone (CO_{Vp}). Close to the Anvil Batholith, (northeast of Rose Creek on sheets C6 & D6), at the higher metamorphic grade of amphibolite facies, the Vangorda formation calcareous phyllites are transformed to a thinly banded, pervasively foliated, hard, very fine grained, green, cream, and purplish brown, calc-silicate (CO_{VCS}). Major interbanded units include greenstone (CO_{VB}) and carbonaceous pelite (CO_{VG}). Minor phyllitic limestone occurs locally (CO_{VL}). The northwest part of the District is unusual in that marble is relatively prominent in the basalt part of the formation. This creates considerable confusion with the formational assignment of marbles and calc-silicates described above as part of the

Mt. Mye formation. This issue is of immense importance in the area immediately northwest of the Faro Pit and between Faro and Grum where it has implications for exploration. The Vangorda formation varies between 0.5 and 2 km in apparent thickness. The formation becomes more calcareous up section. The light grey to tan colored, brush weathering of the formation is characteristic both within the district and elsewhere.

Regionally, the greenstone bodies (CO_{vb}) range from 1 m to 100 m in thickness and are up to several kilometres in length. They comprise approximately 15 percent of the Vangorda formation and are more prevalent near the top of the formation. Whole rock analyses show that the greenstones are compositionally similar to the overlying Menzie Creek basalts (Jennings and Jilson, 1986). Locally, the greenstones contain coarsely crystalline serpentinized pyroxenite subunits (CO_{vbp}), which may be pyroxene cumulates. This unit is particularly common near claim RV 30 and cause a very strong magnetic anomaly. Most greenstone bodies have medium-grained, equigranular centres with strongly foliated margins. Although marginal contacts of the bodies are superficially conformable, detailed inspection indicates the units are locally slightly crosscutting. The greenstones are thus interpreted as subvolcanic dykes and sills feeders to the Menzie Creek formation. Where the mafic units are thin, the entire body may be a foliated chloritic phyllite, commonly calcareous, with thin white bands of quartz and calcite. Some of these chloritic phyllites contain relict pyroxenes or feldspars, and develop a fine augen texture, while others have flat, oviod, and dark chloritic spots on the foliation after vesicles or pyroxenes. Some particularly large and continuous greenstone bodies are traceable through map sheets C and D6 and into E6 where they are useful structural markers across the Rose Creek Valley.

Typically, the Vangorda formation adjacent to the greenstones is a thinly banded, hard, pale green, calcareous, chloritic phyllite (CO_{vpg}). This lithology had been interpreted as a marginal tuff adjacent to basaltic flows (as noted in Jennings and Jilson, 1986). More extensive and more recent drill core inspection and additional outcrop exposures by the author and L.C. Pigage indicate that, rather than a tuff, it represents a slight contact metamorphic aureole caused by intrusion of the greenstone bodies; further evidence that the greenstones are intrusive. Where the mafic bodies are thin, these altered phyllites can be difficult to distinguish from the sill, and if the alteration is intense, the contact with the mafic rock may not be noticeable at all.

Black, slightly calcareous to dolomitic, carbonaceous pelite (CO_{vg}) members occur throughout the Vangorda formation. Dimensions and lateral continuity of these members are poorly known. The thickest and most extensive of these occurs at the base of the formation; it ranges from only a few tens of meters to 100 m in thickness. This basal member becomes thicker in the immediate vicinity of the ore deposits and appears to be laterally equivalent to black, sulphide-bearing, ribbon-banded, carbonaceous, quartzite ores within some of the mineral deposits. Southwest of the Grum and Vangorda deposits, the basal members is very siliceous and slightly pyritic, enhancing the impression of equivalence to the carbonaceous quartzite ores.

Overlying the Vangorda formation are several units including correlatives of the Menzie Creek formation, Road River Group, Earn Group and Anvil Range Group.

Unit O_{MC} represents the Menzie Creek formation and consists of highly flattened, medium olive green, highly amygdaloidal pillowed basalt and basaltic breccia. Black graphitic phyllite is commonly interlayered.

Unit OD_{bs} consists of black carbonaceous shale, commonly calcareous. The unit crops out poorly and is mainly traced by electromagnetic surveys. The unit contains thin two-hole crinoid bearing bioclastic limestone beds elsewhere in the district.

Earn Group correlatives cannot readily be differentiated from Anvil Range Group in the Rose Mountains, thus the two groups are combined into unit DP. Units DP_{bs} and DP_{bch} are the dominant lithologies. The former consists of black carbonaceous siliceous shale, black chert and siltstone. The unit is not readily distinguished from the underlying unit OD_{bs}. Unit DP_{bch} consists of beige, green and black phyllitic chert.

Particularly noteworthy in the foothills of the Rose Mountains are strongly deformed, highly flattened, chert pebble conglomerates. These rocks resemble lenticularly bedded cherts due to the extreme flattening of the clasts. Unit DP_{ba} consists of stratiform barite that occurs at several horizons in unit DP_{bch}. Unit DP_t consists of bedded greenish rocks, possibly tuffaceous, of uncertain stratigraphic affiliation. They crop out near the base of unit DP.

At the top of unit DP, units DP_b and DP_{rch} (combined with DP_{bch}) represent the classic Anvil Range Group as redefined by Templeman-Kluit (1972). Unit DP_b consists of massive epidotized basalt. It is the uppermost unit of the Rose Mountains Paleozoic section. Underlying the basalt is a chert rich sequence characterized by red and green colors. Unit DP_{rch} represents the mappable areas of significant red or maroon chert. These appear to finger into unit DP_{bch} the background greenish chert of the upper part of unit DP. A small occurrence of limestone containing Pennsylvanian fusilinids was described in the Rose Mountains by Templeman-Kluit (1972). This locality was not

found but it appears to plot in the area of the structurally lowest significant red and green cherts.

A mafic-ultramatic complex occurs in the Rose Mountains southwest of the outcrop of Anvil Range Group basalt. The complex consists mostly of serpentinized harzburgite ($P_{z\ sp}$) with lesser massive coarse grained gabbro ($P_{z\ g}$) and diorite ($P_{z\ di}$). The serpentinites are commonly highly sheared.

STRUCTURE

FOLD DEFORMATION

The structural and metamorphic history of the Anvil District is complex and of considerable significance to present distribution, form and nature of the ore deposits, and hence exploration for them, since all of the deposits have experienced the full deformation history. Five phases of deformation have been recognized in the district (Jennings & Jilson, 1986). The first two are periods of intense fold deformation and concurrent metamorphism which determined the gross structure of the mineral deposits. The remaining deformations are only locally developed and do not generally form large or regionally significant structures, but can be important on a mining scale.

The first deformation (D_1) produced a regional metamorphic foliation (S_1) axial planar to tight to isoclinal mesoscopic folds (F_1) in bedding (S_o). Mesoscopic D_1 early folds are rarely preserved in the district. D_1 folds that have been observed are northeasterly inclined to upright, northeasterly verging (shaped like a "Z" in cross-section looking northwest) structures with shallow northwesterly or southeasterly plunging axes. There are very few preserved and identified first phase folds in the District.

During the second deformation event (D_2), S_1 was strongly crenulated and ubiquitous close to tight mesoscopic folds (F_2) in S_1 were produced. Primary bedding (S_0) and S_1 had been transposed into near parallelism with the S_2 foliation. Parallel to the axial planes of the D_2 folds is a crenulation cleavage (S_2), which imparts a well developed lithon structure to most rocks of the district, especially the strongly banded phyllites of the Vangorda formation. F_2 axial planes and S_2 axial plane foliations dip shallowly to the southwest or northeast, with fold axes subparallel to F_1 fold axes. The largest megascopic folds known to have been formed during D_2 are those at the Grum Deposit and comparable folds in the Swim Deposit.

In map areas C6 & D6, S_2 surfaces dip southwest, and F_2 minor folds trend northwest. Where vergence was noted the F_2 folds have southwest vergence (shaped like an "S" in cross-section looking northwest). The shallow dip of F_2 axial planes, the isoclinal nature of F_2 folds, and the transposition of bedding into foliation results in rock units that are flat lying or shallowly southwest dipping on the average.

Three later, less intense periods of folding and associated faulting followed D_2. The later vents (D_3 through D_5) generally produced open folds and weak crenulations in S_2 related to broad, regional structures, an important exception to this general rule is found in the vicinity of the Faro deposit, where the fourth event (D_4) is intense with tight mesoscopic folds developed in nearly pervasive S_2. D_4 minor folds have appreciable mica growth along S_4 axial plane crenulation cleavages.

METAMORPHISM

Metamorphism was concurrent with deformation and was most intense during the major D_1 and D_2 folding deformation. D_1 metamorphism has been largely overprinted by the later D_2 metamorphism. Metamorphic grades during these two events appear to be comparable since mica mineral assemblages between microlithons (i.e. micro folded S_1 foliations) are similar to those defining the S_2 foliation surfaces; however, this interpretation is controversial due to possible recrystallization of D_1 micas during D_2. The rest of the discussion will focus on the D_2 metamorphism.

Metamorphic grade ranges from upper amphibolite facies (sillimanite-muscovite zone) to lower greenschist facies (muscovite-chlorite zone) in a low pressure Buchan type facies series. In pelites adjacent to the intrusions, the typical assemblage is andalusite-staurolite-garnet-biotite-muscovite-quartz-plagioclase with local fibrolite and cordierite. Lower greenschist facies pelites contain the assemblage muscovite-chlorite-quartz-plagioclase.

The area northwest of Rose Creek (closer to the Anvil Batholith) is metamorphosed to amphibolite facies. These high-grade rock grade southwest and up section into less metamorphosed rocks. To the southwest of Rose Creek, rocks are metamorphosed to lower greenschist facies and the structurally highest units in the foothills of the Rose Mountains show little if any metamorphic recrystallization.

FAULTING

During the first and second phases of deformation, low angle faulting appears to have occurred, but the details are as yet poorly understood. Thrust faulting during the first phase of folding is likely and several candidates have been found. The most obvious of

these are along the north flank of the district outside the map area (Gordey, 1983; Jennings and Jilson, 1986), but additional, smaller thrusts may occur in the vicinity of the ore deposits. Gordey and Irwin (1987) have indicated a major thrust through the center of map area C6 & D6 (the Faro Thrust). It is not likely that such a structure exists in the area as it would have to cross well defined lithologic trends, such as the large greenstone bodies noted above. The basis for this postulated thrust appears to have been the dissimilarity of the calc-silicates (correlated by Gordy with a thinly banded siliceous unit near Two-Pete Mountain) and phyllites of Vangorda formation. However, drilling in the vicinity of the Faro mine shows conclusively that the change from one rock to another is a gradual and gradational metamorphic transition, and not a structural superposition.

Major thrust faulting has been hypothesized to bring the potentially exotic stratigraphy of the Rose Mountains (i.e. Anvil Range Group) into contact with the structurally deeper and more comfortably North American stratigraphy of the Anvil District. Such a thrust fault has been difficult to find on the ground and straight forward criteria to locate such a fault have not been established.

There appears to be considerable duplication or interleaving of Anvil Range Group and Earn Group stratigraphy, as evidenced by red and maroon charts at various levels with intervening chert similar to Earn Group. This might suggest some thrust implication in the Rose Mountains foothills. The interpretation of Cyprus Anvil (Jennings & Jilson, 1986) regarding a thrust has been accepted but with reservations. This puts a thrust at the level of unit DP_t on Cornice Ridge (immediately southwest of the Faro Mine). It is thought that DP_t may be a sliver along the basal thrust plane and that additional unmapped imbricate thrusts or isoclinal folds alternate Anvil Range Group and Earn

Group stratigraphy above that which the Anvil Range basalts are reached at the top of the section. It is equally likely that the Rose Mountain section is not allochthonous at all as it very closely resembles Selwyn Basin stratigraphy but for the basalt of the Anvil Range Group.

Post folding and post metamorphism faulting is widespread and of great significance for exploration in the district. Intrusion of the Anvil Batholith further deformed the metamorphic sequence so that the overall structure of the district is an elongate dome cored by the Batholith. In the later stages of emplacement, large extensional fault displacement occurred along the margins of the Batholith (Pigage and Jilson, 1985). These structures are widespread on Vangorda Plateau but have not been recognized with certainty in the northwest part of the District where drill control is poor.

The youngest faults of the district are steeply dipping the diversely oriented. One of the most prominent sets strikes northeast. A second important set strikes approximately north-south. The northeast striking set is subvertical and commonly shows left lateral strike slip offset. This set may represent second order structures to the Tintina Fault. The best example of such a fault is the Blind Creek Fault which offsets the favorable trend of deposits by 1.3 km. A group of faults belonging to this set, through the center of the map, may have similarly offset the favorable trend there; however, this concept has not yet been drill tested. Many late faults show subhorizontal slickenslides, suggesting the last displacements were strike slip. This is true even of structures in the Faro Pit, which are well constrained to have small horizontal displacement compared to the vertical component of movement.

INTRUSIVE HISTORY

ANVIL BATHOLITH

During the later stages of the deformation history a large granitic body, the Anvil Batholith was intruded into the metamorphic sequence. Anvil Batholith ranges in composition from a biotite-muscovite peraluminous granite to a metaluminous to peraluminous hornblende-biotite granodiorite (Pigage and Anderson, 1985). Textures include equigranular massive and megacrystic massive. The latter being more abundant toward the southeast in the area. The Anvil Batholith northwest of Faro Mine appears to have been passively intruded onto the metamorphic sequence, while the portion of the Batholith southeast of the mine appears to have "pushed through" the sequence causing shearing along the contacts and extensional faults in the surrounding metamorphic sequence.

A second pluton similar to the more northwesterly Anvil Batholith occurs west of the mouth of Rose Creek.

ANVIL DYKE SUITE

Anvil Batholith and surrounding metasedimentary rocks are crosscut by two families of post-tectonic dykes. Only one of these dyke families occurs in the area. These are northeast-trending, medium to dark green, porphyritic, unfoliated, hornblende-biotite quartz diorite. These quartz diorite dykes appear to be associated with late extensional faults elsewhere in the district.

An important member of this family crops out in the northwest end of the Faro pit where it truncates the Faro orebody. This body does not have a dike form, as is usual, but

appears to be better described as a small pluton. The distribution of this body is critical to exploration northwest of Faro and drilling by Curragh in 1988-89 (Pigage, 1990a) shows the shape of the body is not well understood. Unfortunately this study was terminated before interpretation of sheet E6 (where the Faro pit is located) was completed, thus the issue could not be dealt with but interesting airborne magnetic anomalies northwest of Faro and possibly north of the large diorite body warrant further investigation. A second, similar, large quartz diorite body occurs on sheet D6.

CONCLUSIONS AND RECOMMENDATIONS

The early termination of this project limits the specific conclusions that can be made; however, nothing seen during the work has diminished interest in the exploration potential of the area northwest of the Faro Pit.

It is recommended that a careful review of the geology and drilling in that area be completed and that the structure be re-interpreted in light of current concepts of the uncertainty of "Mt. Mye" calc-silicate assignment and the importance of late faulting. Results of the 1996 airborne survey should be interpreted in light of that work. The author believes that a significant chance exists for the discovery of additional buried mineralization similar to the Faro ore deposit in that area.

It is also recommended that the study be completed for the remainder of the district as preliminary review of the 1996 airborne work suggests that there will be significant changes to the structure of the district, particularly in the Swim Basin.

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STATEMENT OF QUALIFICATIONS

1. I, Gregg A. Jilson, am a resident of the Yukon Territory, living at 38 Dawson Road, Whitehorse, Yukon Territory, Y1A 5T6.

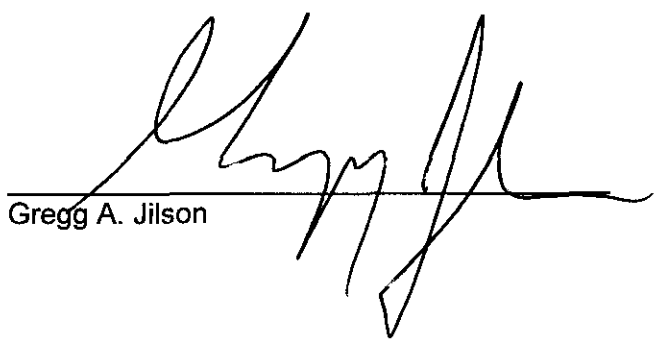
2. I graduated from the University of California at Davis in 1972 with a Bachelor of Science degree in Geology.

3. I have worked in mineral exploration and mining geology continuously since 1971.

4. I have carried out exploration programs in and near the Anvil District since 1972 and am fully familiar with the geology and exploration data for the District.

5. I do not have any investment interest in any of the quartz claims described in this report.

Dated September 1, 1998



Gregg A. Jilson

APPENDIX A

Conversion Equations
For
Yukon Territorial Plane
To
1979 CAMC UTM Coordinates

Prepared By:

Lee Pigage
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February 28, 1998

Conversion equations from a rectilinear grid system to the 1979 UTM grid system will involve the following three operations:

1. Translation (origin of the YTP grid is different from the origin of the UTM grid.

2. Rotation (YTP grid coordinate axes have a different angle relative to True North than the UTM grid axes.

3. Scaling (to correct distances to the geodetic datum and to correct for using different reference systems [ie. Metric vs Imperial]).

Angular rotation from the YTP grid system to the UTM grid may be either positive (clockwise) or negative (anticlockwise). The conversion equations incorporating the above three operations are:

1A UTMNorth = N0 + Sh * (YTPNorth*cosine(x) + YTPEast * sine(x))

1B UTMEast = E0 + Sh * (YTPEast * cosine(x) - YTPNorth * sine(x))

1C UTMelevation = Z0 + Sv * YTPelevation

where
N0 = origin of YTP grid in UTM coordinates - Northing
E0 = origin of YTP grid in UTM coordinates - Easting
Z0 = origin of YTP grid in UTM coordinates - elevation
Sh = horizontal scaling factor
x = rotation angle from YTP grid to UTM grid
Positive - clockwise
Negative - counterclockwise
Sv = vertical scaling factor

The nonlinear regression program MODFIT was used to find least squares best fits for the parameters listed above. Least squares values for the constants are as follows:

x = -0.0001065560555 radians = -0.006105 degrees
N0 = -123.0958435
E0 = 499272.3375
Z0 = 0.4123888
Sh = 0.3047140313
Sv = 0.3047747

The initial least squares analysis of this conversion assumed that there was no angular rotation between the YTP and the UTM grids. Residuals were improved markedly when the regression included the angle x as a constant which could be regressed.

Table N contains the residual differences between calculated and measured UTM coordinates for the 47 survey control stations. These residual differences are less than ± 1 metre for each of the 47 data points. Values for Sh and Sv predominantly denote the conversion from feet to metres in the YTP to UTM conversion. The small value for Z0 indicates the elevation datums for these two grid systems were nearly identical.

The above equations can be readily programmed into spreadsheets.

Station	Surveyed YTP Northing	Surveyed YTP Easting	Surveyed YTP elev	Surveyed 1979 UTM Northing	Surveyed 1979 UTM Easting	Surveyed 1979 UTM elev	Calculated 1979 UTM Northing	Calculated 1979 UTM Easting	Calculated 1979 UTM elev	Calculated - Surveyed Delta N	Delta E	Delta el
1401	22,650,936.869	319,081.570	3,939.8	6,901,924.642	597,236.124	1,200.9	6,901,924.791	597,236.425	1,201.2	0.149	-0.301	-0.252
1402	22,654,293.727	315,216.927	4,027.5	6,902,947.662	596,058.684	1,227.7	6,902,947.798	596,058.923	1,227.9	0.136	-0.239	-0.231
1403	22,654,592.579	312,765.365	3,983.5	6,903,038.830	595,311.699	1,214.2	6,903,038.942	595,311.907	1,214.5	0.112	-0.206	-0.234
1404	22,659,791.336	307,960.976	4,265.0	6,904,623.172	593,847.979	1,300.1	6,904,623.232	593,848.111	1,300.3	0.060	-0.132	-0.214
1405	22,661,200.786	304,235.229	4,265.5	6,905,052.811	592,712.796	1,300.3	6,905,052.832	592,712.869	1,300.4	0.021	-0.073	-0.176
1406	22,662,027.058	301,851.537	4,327.3	6,905,304.678	591,986.529	1,319.1	6,905,304.686	591,986.552	1,319.3	0.008	-0.023	-0.121
1407	22,665,433.006	301,247.804	4,368.3	6,906,342.645	591,803.078	1,331.7	6,906,342.546	591,802.697	1,331.8	-0.099	0.381	-0.106
1408	22,664,296.510	299,099.574	4,225.9	6,905,996.299	591,148.184	1,288.3	6,905,996.310	591,148.064	1,288.4	0.011	0.120	-0.100
1409	22,666,457.579	295,726.894	3,959.5	6,906,654.938	590,120.559	1,207.1	6,906,654.927	590,120.431	1,207 2	-0.011	0.128	-0.100
1410	22,670,119.043	293,307.391	3,953.1	6,907,770.723	589,383.394	1,205.2	6,907,770.705	589,383.293	1,205.2	-0.018	0 101	-0.039
1411	22,670,108.717	290,875.262	3,894.8	6,907,767.660	588,642.285	1,187.4	6,907,767.638	588,642.189	1,187.4	-0.022	0.096	-0 026
1412	22,673,367.573	288,477.221	3,844.9	6,908,760.760	587,911.640	1,172.2	6,908,760.735	587,911.578	1,172.2	-0.025	0 062	0 001
1413	22,675,281.974	286,272.765	3,776.9	6,909,344.143	587,239.993	1,151.5	6,909,344.151	587,239.912	1,151.5	0.008	0.081	0.032
1414	22,676,019.123	284,574.607	3,720.3	6,909,568.798	586,722.605	1,134.3	6,909,568.826	586,722.483	1,134.3	0 028	0 122	0.066
1415	22,682,072.634	281,589.496	3,640.9	6,911,413.499	585,813.136	1,110.2	6,911,413.512	585,813.075	1,110.1	0.013	0.061	0.129
1416	22,681,606.531	280,977.160	3,570.4	6,911,271.486	585,626.528	1,088.7	6,911,271.504	585,626.472	1,088.6	0.018	0.056	0.122
1418	22,685,220.061	274,921.811	3,498.7	6,912,372.783	583,781.572	1,066.9	6,912,372.794	583,781.440	1,066.7	0.001	0.132	0.176
1419	22,687,432.524	273,901.108	3,590.2	6,913,046.918	583,470.671	1,094.8	6,913,046.996	583,470.489	1,094.6	0.078	0.182	0.179
1482	22,710,867.041	255,234.092	5,864.8	6,920,188.336	577,783.316	1,788.2	6,920,188.428	577,783.148	1,787.9	0 092	0.168	0.316
1481	22,701,625.024	273,415.722	5,409.2	6,917,371.631	583,323.197	1,649.1	6,917,371.665	583,323.046	1,649.0	0.034	0.151	0.105
1464	22,702,927.577	284,110.935	5,060.8	6,917,768.321	586,582.245	1,542.8	6,917,768.224	586,582 070	1,542.8	-0.097	0.175	0.021
1494	22,697,348.609	295,110.395	4,458.4	6,916,068.062	589,933.887	1,359.2	6,916,067.877	589,933.578	1,359.2	-0.185	0.309	-0.001
1489	22,688,254.169	297,141.850	5,917.2	6,913,296.806	590,552.536	1,803.7	6,913,296.608	590,552.296	1,803.8	-0.198	0.240	-0.088
1450	22,675,892.054	297,720.651	5,704.8	6,909,529.832	590,728.547	1,738.9	6,909,529.679	590,728.263	1,739.1	-0.153	0.284	-0.145
1469	22,668,267.328	288,815.232	4,664.0	6,907,206.636	588,014.643	1,421.8	6,907,206.607	588,014.409	1,421.9	-0.029	0.234	-0.092
1475	22,676,386.462	278,749.463	4,582.9	6,909,680.924	584,947.628	1,397.2	6,909,680.948	584,947.492	1,397.2	0.024	0.336	-0.000
1462	22,664,094.037	309,636.814	5,190.0	6,905,934.536	594,358.750	1,582.0	6,905,934.271	594,358 902	1,582.2	-0.265	-0.152	-0.215
1453	22,657,190.443	320,035.942	4,212.8	6,903,830.314	597,527.197	1,284.1	6,903,830.311	597,527.438	1,284.4	-0.003	-0.241	-0.241
1488	22,648,043.908	315,061.251	3,922.5	6,901,043.273	596,010.921	1,195.6	6,901,043.395	596,011.283	1,195.9	0.122	-0.362	-0.277
1493	22,718,852.158	299,464.764	5,298.0	6,922,620.118	591,260.878	1,615.2	6,922,620.169	591,261.114	1,615.1	0.051	-0.236	0.077
1492	22,704,816.237	326,785.003	5,251.3	6,918,342.598	599,585.104	1,601.0	6,918,342.340	599,585.518	1,600.9	-0.258	-0 414	0 081
1491	22,683,477.528	338,254.562	5,909.9	6,911,839.456	603,079.377	1,801.7	6,911,839.764	603,079.761	1,801.6	0.308	-0.384	0.104
1495	22,693,740.211	342,820.705	4,606.4	6,914,966.630	604,471.086	1,404.4	6,914,966.799	604,471.462	1,404.3	0.169	-0.376	0.068
1445	22,663,183.706	321,614.055	5,662.0	6,905,656.256	598,008.252	1,725.8	6,905,656.492	598,008.506	1,726.0	0.236	-0.254	-0.208
1484	22,662,664.913	389,115.359	3,847 8	6,905,496.308	618,576.420	1,173.8	6,905,496.216	618,577.083	1,173.1	-0.092	-0.663	0.671
1463	22,683,938.890	262,289.295	4,969.8	6,911,982.826	579,932.468	1,515.1	6,911,982.814	579,932.093	1,515.1	-0.012	0.375	0.055
1480	22,672,846.590	329,951.290	6,607.3	6,908,600.282	600,548.938	2,014.1	6,908,600.637	600,549.292	2,014.2	0.355	-0.354	-0.003
1421	22,689,211.585	267,124.664	3,410.7	6,913,589.247	581,405.949	1,040.1	6,913,589.321	581,405.669	1,039.9	0.074	0.280	0.173
1432	22,655,588.970	361,145.940	4,289.3	6,903,341.244	610,053.965	1,307.7	6,903,340.985	610,054.179	1,307.7	-0 259	-0.214	0.040
1470	22,686,846.099	254,586.238	5,517.1	6,913,478.353	577,585.377	1,682.1	6,913,478.359	577,585.023	1,681.9	0.006	0.354	0.176
1461	22,657,474.209	300,925.098	4,346.2	6,903,917.487	591,703.958	1,324.7	6,903,917.399	591,704.105	1,325.0	-0.088	-0.147	-0.319
678756	22,678,048.306	323,403.626	6,761.3	6,910,186.037	598,554.299	2,061.2	6,910,185.886	598,554.357	2,061.1	-0.151	-0.058	0.099
6786001	22,651,315.340	363,768.240	4,384.5	6,902,038.968	610,852.679	1,336.7	6,902,038.665	610,853.092	1,336.7	-0.303	-0.213	0.038
678566	22,672,489.760	330,017.320	6,515.2	6,908,491.552	600,569.043	1,986.1	6,908,491.904	600,569.401	1,986.1	0.352	-0.358	0.045
678687	22,672,741.230	251,900.650	5,462.9	6,908,571.320	576,766.660	1,665.5	6,908,571.067	576,766.164	1,665.4	-0.253	0.496	0.092
1417	22,684,671.372	278,213.501	3,552 2	6,912,205.464	584,784.540	1,083.2	6,912,205.494	584,784.446	1,083.0	0.030	0.094	0.153
1420	22,688,917.238	267,432.730	3,413.6	6,913,499.548	581,499.814	1,041.0	6,913,499.619	581,499.532	1,040.8	0.071	0.282	0.169

APPENDIX B

Statement of Cost

and

Copies of Invoices

Prepared By:

Access Mining Consultants Ltd.

September 1, 1998

Statement of Cost

List of invoices

invoice	dated	for work completed	amount (no GST)
ARMCOMP897	3-Sep-97	Aug .1 to 31, 1997	$ 6,993.65
ARMCOMP997	16-Sep-97	Sep. 1 to 15, 1997	$ 3,379.12
ARMCOMP997B	2-Oct-97	Sep. 16 to 30, 1997	$ 5,531.00
ARMCOMP1097A	20-Oct-97	Oct. 1 to 15 ,1997	$ 2,577.18
ARMCOMP1097B	4-Nov-97	Oct. 16 to 31, 1997	$ 6,593.60
ARMCOMP1197A	18-Nov-97	Nov. 1 to 15, 1997	$ 7,446.25
ARMCOMP1197B	1-Dec-97	Nov. 16 to 30, 1997	$ 15,281.45
ARMCOMP1297	8-Jan-98	Dec. 1 to 31 ,1997	$ 6,336.87
ARMCOMP0198A	31-Jan-98	Jan. 1 to 15, 1998	$ 10,370.07
ARMCOMP0298	4-Feb-98	Jan. 15 to Feb. 28, 1998	$ 15,000.00
		total	$ 79,509.19

Copies of the invoices and a breakdown of the work by type and map sheet follows

Anvil Range Mining Corporation -- Geological Compilation Project – calcualtion of applicable assessment costs

Portion of the work component completed to Feb 28, 1998

sheet	CD6	E6	F6	G6	total
area	209	139	139	139	**627**
topography	100%	100%	100%	100%	**$ 32,350**
geology	70%	50%	0%	0%	**$ 35,116**
geology database	0%	0%	0%	0%	**$ 3,730**
geophysics	100%	0%	0%	0%	**$ 3,096**
claim compilation	100%	100%	100%	100%	**$ 5,218**
claims database	0%	0%	0%	0%	$ -
report writing	0%	0%	0%	0%	$ -
					$ 79,510

Portion of time and effort devoted to each component by mapsheet

sheet	CD6	E6	F6	G6	total to date
topography	25%	25%	25%	25%	100%
geology	70%	30%	0%	0%	100%
geology database	70%	20%	5%	5%	100%
geophysics	85%	15%	0%	0%	100%
claim compilation	25%	25%	25%	25%	100%
claims database	0%	0%	0%	0%	0%
report writing	0%	0%	0%	0%	0%
					0%

Breakdown of costs by mapsheet

	sheet				
Task	**CD6**	**E6**	**F6**	**G6**	**total to date**
topography	$ 8,088	$ 8,088	$ 8,088	$ 8,088	**$ 32,350**
geology	$ 24,581	$ 10,535	$ -	$ -	**$ 35,116**
geology database	$ 2,611	$ 746	$ 186	$ 186	**$ 3,730**
geophysics	$ 2,632	$ 464	$ -	$ -	**$ 3,096**
claim compilation	$ 1,305	$ 1,305	$ 1,305	$ 1,305	**$ 5,218**
claims database	$ -	$ -	$ -	$ -	$ -
report writing	$ -	$ -	$ -	$ -	$ -
Total cost of the work completed	**$ 39,216**	**$ 21,137**	**$ 9,579**	**$ 9,579**	**$ 79,510**
area of the map sheet (sq. km.)	209.2	139.2	139.3	139.3	627.0
area of the claims requiring filing of work	39.2	94.8	16.0	9.6	159.6
area of all claims on sheet	**60.6**	**107.0**	**79.0**	**102.3**	**349.0**
percent of map sheet	**29%**	**77%**	**80%**	**90%**	**56%**
geological complexity on vs. off claims	**2.5**	**1.2**	**1**	**1**	
cost weighted for area and geology complexity	**22,044**	**17,871**	**7,663**	**8,621**	**56,198**
already filed in Dec. 1997	**8,097**	**-**	**-**	**-**	**8,097**
remaining for filing	**13,947**	**17,871**	**7,663**	**8,621**	**48,101**
cost per hectare	**$ 2.30**	**$ 1.67**	**$ 0.97**	**$ 0.84**	**$ 1.61**
cost per full size claim	**$ 48.11**	**$ 34.90**	**$ 20.28**	**$ 17.61**	**$ 33.66**

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: **Anvil Range Mining Corporation**
Box 1000
Faro, YT
Y0B 1K0

[illegible]	ARMCOMP897
[illegible]	03-Sep-97
[illegible]	31-Aug-97

Attention: **Patrick Mars, President**

Re: **GEOLOGICAL COMPILATION**

Professional Services (see attached breakdown)

HOURS	PERSON	PURPOSE	RATE	AMOUNT	GST
18.50	G.A. Jilson	Project Management	$110 /hr	$2,035.00	$142.45
17.50	R. McIntyre	Project Management	$85 /hr	$1,487.50	$104.13
1.25	R. Snider	AutoCAD Drafting	$55 /hr	$68.75	$4.81
58.25	H. Stirling	AutoCAD Drafting	$55 /hr	$3,203.75	$224.26
1.00	K. Borden	Secretarial	$40 /hr	$40.00	$2.80

Sub-total	$6,835.00	$478.45
Total Prof. Services	$7,313.45	incl. GST

Disbursements (CHARGED AT COST)

DATE	DESCRIPTION	AMOUNT (CAD)	GST
13-Aug-97	MicroAge Computers, Invoice 8710, Recordable CD - to back up computers	$25.90	$1.81
15-Aug-97	GL Electronics, Invoice 21214, Iomega Zip Disk	$25.00	$1.75
31-Aug-97	Fax charges, 17 pages @ $0.25/	$4.25	$0.30
31-Aug-97	Photocopying charges, 30 copies @ $0.25/copy	$7.50	$0.53
31-Aug-97	Plotting fees on HP 750C, bond check plots - 2 B size @ $3	$6.00	$0.42
31-Aug-97	Plotting fees on HP 750C, bond check plots - 9 D Size @ $6	$54.00	$3.78
31-Aug-97	Plotting fees on HP 750C, bond check plots - 3 E Size @ $12	$36.00	$2.52
	Sub-total	$158.65	$11.11

Total Disbursements	$169.76	incl. GST

	without GST	GST
Invoice Subtotal	$6,993.65	$489.56
Less Advances	$0.00	
[illegible]	$7,483.21	incl. GST

Thank You

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

PAID
RCA 3/97
903

ACCESS MINING CONSULTANTS LTD.
AUGUST 1997 BILLING

GJ	12-Aug-97	ARM - compil	2.00	go to Anvil office to find maps and pull out of files
GJ	13-Aug-97	ARM - compil	3.00	goto Anvil office to find maps, talk w/ Mars re project, mark areas for topo scanning, call Robertson re topo they did
GJ	14-Aug-97	ARM - compil	2.50	get topo files from Robertson, get geophysics maps from ARM, meet w/ Power re geophysical review, return maps, get CD of data
GJ	20-Aug-97	ARM - compil	2.00	call w/ B. Nobs re backup and Autocad files needed., check maps and coords, discuss /w L. Pigage
GJ	22-Aug-97	ARM - compil	1.00	look at test plots w/ Holly, plan next approach
GJ	24-Aug-97	ARM - compil	3.00	organize and send fax re exploration program - to P. Kennedy
GJ	25-Aug-97	ARM - compil	0.50	review maps w/ Holly, discuss Anvil budget for 97-98
GJ	26-Aug-97	ARM - compil	2.50	telecon w/ P. Kennedy,R. Hall re geophysics, revise budget further
GJ	28-Aug-97	ARM - compil	2.00	meeting re scanning results, set up procedure for coordinate shift, comments and budget to P. Mars
			18.50	
KB	13-Aug-97	ARM - compil	1.00	locating and ordering map via internet
			1.00	
RM	Aug-12-97	ARM - compil	2.00	search data, discuss availability of digital topo data w/ NRCAN, search internet for maps
RM	Aug-14-97	ARM - compil	1.00	mtg. w/ M. Power, G. Jilson to review strategy for geophysical manipulation portion of compilation project
RM	Aug-14-97	ARM - compil	0.50	download NTS 105k/7 digital from internet, zip for H. Stirling, mtg. w/ Stirling to set objectives
RM	Aug-19-97	ARM - compil	0.50	mapping discussion w/ H. Stirling
RM	Aug-20-97	ARM - compil	2.00	mtg. w/ Mining Recorder (D. Weibe) to obtain approval of comp. project for assessment; NAD 27 - NAD 83 conversions
RM	Aug-22-97	ARM - compil	2.50	sort out technical data in regards to topo digitizing, discuss w/ Jilson/Stirling
RM	Aug-25-97	ARM - compil	0.50	discuss w/ L. Pigage, set up timing for Dbase production, technical questions regarding topo base mapping
RM	Aug-27-97	ARM - compil	0.50	review topo digitizing w/ H. Sirling
RM	Aug-27-97	ARM - compil	0.50	budget & review/edit comm. to P. Mars
RM	Aug-28-97	ARM - compil	0.50	mtg. w/ GAJ, L. Pigage, H. Stirling, YES (R. Slade, D. Noelle) re: topo base digitizing issues
RM	Aug 11- 97	ARM - compil	1.00	discuss compilation project w/ Jilson, H. Stirling
RM	Aug 13-97	ARM - compil	1.00	order NTDBS 1:50k topo maps, deliver mylar maps to YES for scanning, vectorizing, discuss w/ Slade, Noelle @ YES
RM	Aug 25-97	ARM - compil	5.00	develop monthly spreadsheet of GRP budget, milestones, completion schedule
			17.50	
RS	14-Aug-97	ARM - compil	0.75	Geological resource program - printing AutoCad layers
RS	29-Aug-97	ARM - compil	0.50	Printing budget spreadsheet
			1.25	
HS	11-Aug-97	ARM - compil	3.00	Meet with Access, preliminary work at Anvil office
HS	12-Aug-97	ARM - compil	3.00	Meet with Access, preliminary work at Anvil office
HS	13-Aug-97	ARM - compil	3.00	Meet with Access, preliminary work at Anvil office
HS	19-Aug-97	ARM - compil	2.25	Compile 105 K/7 file from government
HS	20-Aug-97	ARM - compil	5.50	Create plots for G. Jilson, pick up drawings from Anvil
HS	21-Aug-97	ARM - compil	4.50	Create compilation project map for R. McIntyre
HS	22-Aug-97	ARM - compil	5.00	Create compilation project map for R. McIntyre
HS	23-Aug-97	ARM - compil	0.50	Check Yukon Engineering 105 K/5, 6 file
HS	25-Aug-97	ARM - compil	5.00	Digitize sheets 6,7,8 & D6-4 E 1/2
HS	26-Aug-97	ARM - compil	6.00	Digitize sheets 6,7,8 & D6-4 E 1/2
HS	27-Aug-97	ARM - compil	6.50	Digitize sheets 6,7,8 & D6-4 E 1/2
HS	28-Aug-97	ARM - compil	6.50	Run plots, meet at Access, pick up drawings from Anvil, meet with L. Pigage
HS	30-Aug-97	ARM - compil	4.00	Digitize 1:5,000 sheet data for L. Pigage
HS	31-Aug-97	ARM - compil	3.50	Digitize 1:5,000 sheet data for L. Pigage
			58.25	

Compilation

MicroAge
OPERATED BY
NOR-DAT COMPUTER SERVICES LTD
211B Elliott Street
Whitehorse, YT Y1A 2A1
(403) 668-6677



InterNORTH
Internet Services
GST# R103901948

INVOICE

008710
INVOICE

CUSTOMER NO. ACCESS

BILL TO:
Access Mining Consultants
204D Strickland St.
Whitehorse, YT
Y1A 2J8
Colette

SHIP TO:
SAME

Authorized Reseller

IBM Business Partner

PLEASE RETAIN INVOICE, BOX & PACKAGING FOR WARRANTY SERVICE, RETURNS & EXCHANGE

DATE	SHIP VIA	F.O.B.	TERMS
08-13-97	U.P.S.	Your dock	Net 20 days

PURCHASE ORDER NUMBER	ORDER DATE	SALESPERSON	OUR ORDER NUMBER
	08-13-97	BRO	002873

ITEM NO. / DESCRIPTION / SERIAL NO. / UNIT			QUANTITY REQ.	QUANTITY SHIPPED	QUANTITY B.O.	UNIT PRICE	EXTENDED PRICE
095625	ea	CD RECORDABLE, CW-74, 74 MINUTES, MAXELL	2	2		12.95	25.90

Access Mining Consultants Ltd.		
CLIENT	CODING	AMOUNT
ARM	5060	25.90
	GST:	1.81
	TOTAL:	27.71
Approved:		Date: 8/13/97

Discount	
Net amount	25.90
Shipping	
G.S.T.	1.81
Total due:	$27.71

RECEIVED BY: Holly D. Sterling DATE: Aug 13/97
I understand and accept the terms and conditions stated herein.

RETURN POLICY We will credit or refund any unopened product within 14 days of purchase. For Software, please ensure your system meets the hardware requirements before opening. Special order products are not returnable. Notification of shortages or incorrect products must be made within 7 days of receipt. A $25.00 service charge will be applied to any request for return or warranty service without a copy of the original invoice.

WARRANTY INFO MicroAge makes no implied or written warranties about the performance of any product. All warranties are as stated by the manufacturers. Please contact the manufacturer directly for assistance where applicable. Shipping and handling charges may apply to warranty repairs or exchanges.

NOR-DAT COMPUTER SERVICES LTD IS A LICENSEE OF THE TRADEMARK MICROAGE© OWNED BY MICROAGE COMPUTER CENTRES INC.

Completion

G L ELECTRONICS
#208 Strickland Street
Whitehorse, YT Y1A 2J8
Ph:(403)668-2225 Fax:(403)668-3555
GST Reg'n #898008271RT

ACCESS MINING CONSULTANTS LTD
204D STRICKLAND ST.
Whitehorse, YT
Y1A 2J8

SAME

08-15-97

SALE 021214
On Account (A/R)

P.O.

DISKZIP1 DISK ZIP 100MB IOMEGA	2	25.00	50.00

(1 ANVIL + 1 AMC)

Access Mining Consultants Ltd.		
CLIENT	CODING	AMOUNT
AMC	5060	25
ARM	5060	25
		3.5
		53.50
Approved:		8/19/97

Net amount	50.00
G.S.T.	3.50
Total Due:	$53.50
Am't Tndrd	0.00
Change Due	
On Account	53.50

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: *Anvil Range Mining Corporation*
Box 1000
Faro, YT
Y0B 1K0

[redacted]	ARMCOMP997
[redacted]	16-Sep-97
[redacted]	Sept. 1-15/97

Attention: **Patrick Mars, President**

Re: **GEOLOGICAL COMPILATION**

Professional Services (see attached breakdown)

[redacted]					
4.50	G.A. Jilson	Project Management	$110 /hr	$495.00	$34.65
3.00	R. McIntyre	Project Management	$85 /hr	$255.00	$17.85
45.50	H. Stirling	AutoCAD Drafting	$55 /hr	$2,502.50	$175.18

Sub-total	$3,252.50	$227.68
Total Prof. Services	$3,480.18	incl. GST

Disbursements (CHARGED AT COST)

[redacted]			
14-Aug-97	Long distance telephone and fax charges	$20.20	$1.41
20-Aug-97	Jim's Toy & Gift - Map Sales, Invoice 9956, topographical maps	$89.50	$6.27
29-Aug-97	Arctic Star Printing Inc., Invoice 15428, blue prints	$16.92	$1.18

Sub-total	$126.62	$8.86
Total Disbursements	$135.48	incl. GST

	without GST	GST
Invoice Subtotal	$3,379.12	$236.54
Less Advances	$0.00	
[redacted]	$3,615.66	incl. GST

Thank You

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

Person	Date	Client	Total Hours	Description of work done
RM	2-Sep-97	ARM - comp	1.00	review progress w/ H. Stirling
RM	3-Sep-97	ARM - comp	0.50	discuss mapping progress w/ H. Stirling
RM	3-Sep-97	ARM - comp	1.00	mtg. w/Abbott, S. Abercrombie to discusss possible government support for anvil project
RM	9-Sep-97	ARM - comp	0.50	check progress, review goals w/ H. Stirling
			3.00	
GJ	3-Sep-97	ARM - comp	1.00	meet Abott and Abercrombie re YTG support, budget
GJ	4-Sep-97	ARM - comp	1.50	Go to Anvil office to find map source data for geology digitizing
GJ	5-Sep-97	ARM - comp	1.00	discuss digitizing w/ H. Sterling - order bluelines of geology maps
GJ	8-Sep-97	ARM - comp	1.00	meet w/ P. Mars re project direction, timing and funding
			4.50	
HS	2-Sep-97	ARM - comp	3.00	Digitize 1:5,000 sheet data for L. Pigage
HS	3-Sep-97	ARM - comp	6.00	Digitize topo for G6-5 & G6-6
HS	4-Sep-97	ARM - comp	4.25	Meet G.A. Jilson @ Anvil/digitize Sheet 6 outcrops 1:5,000
HS	5-Sep-97	ARM - comp	2.00	Digitize Sheet 6 outcrops 1:5,000
HS	6-Sep-97	ARM - comp	2.00	Digitize Sheet 6 outcrops 1:5,000
HS	7-Sep-97	ARM - comp	2.00	Digitize Sheet 6 outcrops 1:5,000
HS	8-Sep-97	ARM - comp	1.25	Digitize Sheet 6 outcrops 1:5,000
HS	9-Sep-97	ARM - comp	6.00	Digitize Sheet 7 outcrops 1:5,000
HS	10-Sep-97	ARM - comp	5.00	Digitize Sheet 7 outcrops 1:5,000
HS	11-Sep-97	ARM - comp	3.00	Digitize sheets D6-4-E 1/2 & Sheet 8 outcrops 1:5,000
HS	12-Sep-97	ARM - comp	5.50	Digitize sheets D6-4-E 1/2 & Sheet 8 outcrops 1:5,000; digitize 105K/5 outcrops 1:50,000
HS	13-Sep-97	ARM - comp	5.50	Digitize 105K/5 outcrops 1:50,000
			45.50	

Access Mining Consultants Ltd.
August 17 Phone Bill

Date	From:	Number called:	Amount:	Person called:	Bill to:
7 21 ph	668-6463	416-348-8955	$0.92	Anvil Range Toronto switchboard	ARM
7 21 ph	668-6463	416-348-9353	$2.76	Anvil Range - Executive fax	ARM
7 31 ph	668-6463	416-348-9353	$1.84	Anvil Range - Executive fax	ARM
7 18 ph	668-6463	416-408-5232	$0.92	Anvil Range - Patrick Mars	ARM
7 21 ph	668-6463	416-408-5232	$0.92	Anvil Range - Patrick Mars	ARM
8 13 ph	668-6463	604-684-8072	$8.12	Robertson Geo, ph	ARM
8 14 ph	668-6463	604-684-8072	$3.08	Robertson Geo, ph	ARM
8 14 ph	668-6463	604-684-8072	$1.64	Robertson Geo, ph	ARM
			$20.20		

9/15

JIM'S TOY & GIFT - MAP SALES

4137 - 4th Avenue
WHITEHORSE, Y.T. Y1A 1H8
(403) 667-2606

RECEIVED
SEP 05 1997

CUSTOMER ORDER NUMBER	TELEPHONE	FAX	DATE
	668-4643		97/08/20

NAME: Access Mining Consultants - Holly Stirling

ADDRESS: 204 D Strickland

CITY: Whitehorse PROVINCE: YT POSTAL CODE: Y1A 2S8

SOLD BY	CASH	CHEQUE	CHARGE	DEBIT CARD	C.O.D.	ON ACCT.	MDSE. RET'D.	PAID OUT
AW			X					

QUANTITY	DESCRIPTION	PRICE	AMOUNT
10	1:50 Maps	8.95	89 50

ARM
1 set NS + 1 set EW

Access Mining Consultants Ltd.

CLIENT	CODING	AMOUNT
	GST	
	TOTAL	

Approved: Date:

SPECIAL INSTRUCTIONS
No Returns or Exchanges on Maps

All claims and returned goods MUST be accompanied by this bill.

RECEIVED BY Holly D. Stirling

SUBTOTAL	89 50
GST	6 27
PST	
TOTAL	95 77

9956

THANK

ARCTIC STAR PR..NTING INC.

204 Strickland St. Whitehorse, Y.T., Y1A 2J8 Phone: (403) 668-4733

8/15

INVOICE NUMBER No 15428

SOLD TO: Access Mining

ADDRESS: 204-D Strickland St
Whitehorse, Yt Y1A 2J8

DATE: Aug 29/97

ORDER #:

NUMBER OF ORIGINALS	NUMBER OF COPIES	TOTAL	DESCRIPTION	UNIT PRICE	AMOUNT	
8	1	8	8 11x17	.18	1	44
2	1	2	8½x11	.10		20
2	2	4	24x58½ Blueprints		8	58
2	2	2	24x59 "		4	33
1	2	2	A-1 "		2	37

QUANTITY ORDERED	QUANTITY SHIPPED				
		SUB TOTAL		16	92
			G.S.T.	1	18
			TOTAL $	18	10

THIS IS YOUR INVOICE • PAYABLE UPON RECEIPT • 2% PER MONTH CHARGED ON ALL OVERDUE ACCOUNTS

GST Registration # R100251677

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: Anvil Range Mining Corporation
145 Wellington St. W., 6th Floor
Toronto, Ontario
M5J 1H8

[redacted]	ARMCOMP997-B
[redacted]	02-Oct-97
[redacted]	Sept. 16-30/97

Attention: Mr. Patrick Mars, President

Re: GEOLOGICAL COMPILATION

Professional Services (see attached breakdown)

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
1.25	G.A. Jilson	Project Management	$110 /hr	$137.50	$9.63
16.50	R. McIntyre	Land Issues	$85 /hr	$1,402.50	$98.18
12.80	L. Pigage, P. Geol	Database Layout - Coordination	$65 /hr	$832.00	$58.24
57.00	H. Stirling	AutoCAD Drafting	$55 /hr	$3,135.00	$219.45

Sub-total	$5,507.00	$385.49
Total Prof. Services	$5,892.49	incl. GST

Disbursements (CHARGED AT COST)

[redacted]	[redacted]	[redacted]	[redacted]
30-Sep-97	Plotting fees, No. 2-E bond check plots @ $12/each	$24.00	$1.68

Sub-total	$24.00	$1.68
Total Disbursements	$25.68	incl. GST

	without GST	GST
Invoice Subtotal	$5,531.00	$387.17
Less Advances	$0.00	
[redacted]	$5,918.17	incl. GST

Thank You

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

PAID
#939
Doc 5/97

Access Mining Consultants Ltd.
September 1997 Hours

Person	Date	Client	Total Hours	Description of work done
GJ	17-Sep-97	ARM-comp	0.75	derive coordinate conversion equation TPC to UTM
GJ	24-Sep-97	ARM-comp	0.50	Meet w/ Lee Pigage and review coordinate conversion options for topo maps, give instructions
			1.25	
RM	24-Sep-97	Anv - comp	0.50	mtg. W/ LCP re; topo coordinate shifts
			0.50	
LP	27-Aug-97	ARM-comp	2.50	Access meeting to discuss coordinate systems, topography contours, mapping geology data
LP	28-Aug-97	ARM-comp	2.00	Access meeting to discuss coordinate systems, topography contours, mapping geology data
LP	28-Aug-97	ARM-comp	0.50	Select hydro features to digitize from 1:50,000 federal maps & 1:5,000 CAMC maps to comp. Coor. Systems
LP	1-Sep-97	ARM-comp	1.50	Memo to Access on variables for Anvil District exploration compilation databases
LP	24-Sep-97	ARM-comp	0.80	Access meeting to discuss coordinate systems, topography contours, mapping geology database design
LP	25-Sep-97	ARM-comp	1.00	Meeting with B. Stirling to discuss coordinate systems and corrections
LP	25-Sep-97	ARM-comp	3.00	Check conversion equation YTP to 1979 UTM/compare federal UTM and 1979 CAMC UTM
LP	26-Sep-97	ARM-comp	1.50	Memo to Stirling on UTP to 1979 UTM conversion/correct conversion spreadsheet
			12.80	
HS	16-Sep-97	ARM-comp	3.50	Digitize 1:50,000/plot 1:10,000/meet with Gregg and Rob
HS	17-Sep-97	ARM-comp	6.00	Digitize sheet C6 outcrops 1:12,000
HS	18-Sep-97	ARM-comp	5.00	Digitize sheet C6 outcrops 1:12,000
HS	19-Sep-97	ARM-comp	6.00	Digitize sheet D6 outcrops 1:12,000
HS	22-Sep-97	ARM-comp	6.00	Digitize sheet D6 outcrops 1:12,000
HS	23-Sep-97	ARM-comp	6.00	Digitize sheet D6 outcrops 1:12,000
HS	24-Sep-97	ARM-comp	6.00	Digitize sheet E6 outcrops 1:12,000/meet with Lee/locate drawings and take to printers
HS	26-Sep-97	ARM-comp	6.00	Digitize sheet E6 outcrops 1:12,000/meet with Lee/locate drawings and take to printers
HS	29-Sep-97	ARM-comp	6.00	Digitize sheet E6 outcrops 1:12,000/meet with Lee/locate drawings and take to printers
HS	30-Sep-97	ARM-comp	6.50	Digitize sheet E6 outcrops 1:12,000/meet with Lee/locate drawings and take to printers
			57.00	

Date	Property	Time (hours)	Activity
27-Aug-97	Anvil District	2.5	Access meeting to discuss coordinate systems, topography contours, mapping geology data
28-Aug-97	Anvil District	2.0	Access meeting to discuss coordinate systems, topography contours, mapping geology data
28-Aug-97	Anvil District	0.5	select hydro features to digitize from 1:50,000 federal maps and 1:5,000 CAMC maps to compare coordinate systems
01-Sep-97	Anvil District	1.5	memo to Access on variables for Anvil District exploration compilation databases
24-Sep-97	Anvil District	0.8	Access meeting to discuss coordinate systems, topography contours, mapping geology database design
25-Sep-97	Anvil District	1.0	meeting with Bob Stirling to discuss coordinate systems and corrections
25-Sep-97	Anvil District	3.0	check conversion equation YTP to 1979 UTM / compare federal UTM and 1979 CAMC UTM
26-Sep-97	Anvil District	1.5	memo to Stirlings on UTP to 1979 UTM conversion / correct conversion spreadsheet
	Total	12.8	

early Nov →

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: **Anvil Range Mining Corporation**
145 Wellington St. W., 6th Floor
Toronto, ON
M5J 1H8

[redacted]	ARMCOMP1097-A
[redacted]	20-Oct-97
[redacted]	Oct. 1-15, 1997

Attention: **Mr. Patrick Mars, President**

Re: **GEOLOGICAL COMPILATION**

Professional Services (see attached breakdown)

[redacted]					
3.25	G.A. Jilson	Project Management	$110 /hr	$357.50	$25.03
1.25	L. Pigage, P. Geol.	Database Layout - Coordination	$65 /hr	$81.25	$5.69
15.75	H. Stirling	AutoCAD Drafting	$55 /hr	$866.25	$60.64

Sub-total	$1,305.00	$91.35
Total Prof. Services	$1,396.35	incl. GST

Disbursements (CHARGED AT COST)

[redacted]			
30-Sep-97	Arctic Star Printing Inc., Invoice 15520, blueprints	$24.18	$1.69
01-Oct-97	Yukon Engineering Services, Invoice 97-032-01-1479, Scan and Vectorize NTS Maps	$1,200.00	$84.00
15-Oct-97	Plotting fees, 4-E bond check plots @ $12/ea	$48.00	$3.36
	Sub-total	$1,272.18	$89.05

Total Disbursements	$1,361.23	incl. GST

	without GST	GST
Invoice Subtotal	$2,577.18	$180.40
Less Advances	$0.00	
[redacted]	$2,757.58	incl. GST

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

[redacted]CES[redacted]NING[redacted]NSU[redacted]NTS[redacted]

OCTOBER 15, 1997 BILLING
ANVIL RANGE MINING CORPORATION

Person	Date	Client	Total Hours	Description of work done
GJ	1-Oct-97	ARM-comp	0.25	discuss geological map digitizing w/ Holly
GJ	2-Oct-97	ARM-comp	0.50	review topo maps on home computer re coordinate shift
GJ	3-Oct-97	ARM-comp	0.50	Go over map options w/ Lee Pigage
GJ	14-Oct-97	ARM-comp	1.50	meet w/ lee Pigage re map coordinates, give further instructions, travel time
GJ	15-Oct-97	ARM-comp	0.50	review budget and actual costs, discuss Holly's objectives for week
			3.25	
LP	7-Oct-97	ARM-comp	0.50	Meeting with G. Jilson to discuss coordinate change
LP	14-Oct-97	ARM-comp	0.75	Review AutoCad drawings with G. Jilson and discuss coordinate change
			1.25	
HS	6-Oct-97	ARM-comp	3.00	Digitize outcrops 1:12,000/move outcrops to new locations due to change in formula
HS	6-Oct-97	ARM-comp	1.00	Meet with Lee Pigage/map set up/digitize contours for shift
HS	10-Oct-97	ARM-comp	3.00	Digitize outcrops 1:12,000/move outcrops to new locations due to change in formula
HS	14-Oct-97	ARM-comp	3.00	Digitize outcrops 1:12,000/move outcrops to new locations due to change in formula
HS	14-Oct-97	ARM-comp	0.75	Meet with Lee Pigage/map set up/digitize contours for shift
HS	15-Oct-97	ARM-comp	0.50	Meet with Lee Pigage/map set up/digitize contours for shift
HS	15-Oct-97	ARM-comp	4.50	Digitize outcrops 1:12,000/move outcrops to new locations due to change in formula
			15.75	

ARCTIC STAR PR..TING INC.

204 Strickland St. Whitehorse, Y.T., Y1A 2J8 Phone: (403) 668-4733

10/15

RECEIVED
OCT 09 1997

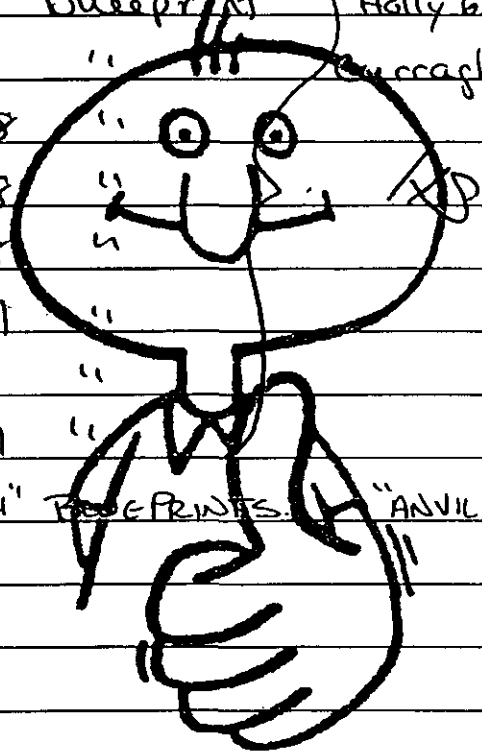
INVOICE NUMBER **No 15520**

SOLD TO: Access Mining DATE: Sept 30/97

ADDRESS: 204 - D Strickland St ORDER #:

Whitehorse, Yt Y1A 2J8

NUMBER OF ORIGINALS	NUMBER OF COPIES	TOTAL	DESCRIPTION	UNIT PRICE	AMOUNT	
1	1	1	48x28 Blueprint Holly 633-3829		2	05
1	1	1	48x28 " Cowcrash Rd.		2	05
1	1	1	44x28 "		1	88
1	1	1	43x28 "		1	84
1	1	1	43x28 "		1	84
1	1	1	37x31 "		1	75
1	1	1	37x31 "		1	75
1	1	1	24x17 "			62
+30 3	1	3	42" x54" BLUEPRINTS "ANVIL RANGE"	X5	10	40



QUANTITY ORDERED	QUANTITY SHIPPED				
		Access Mining Consultants Ltd. CLIENT / CODING / AMOUNT			
		GST			
		TOTAL			
		Date:			
		SUB TOTAL		24	18
		G.S.T.		1	69
		TOTAL $		25	87

THIS IS YOUR INVOICE • PAYABLE UPON RECEIPT • 2% PER MONTH CHARGED ON ALL OVERDUE ACCOUNTS

GST Registration # R100251677

Yukon Engineering Services

1 Calcite Business Centre
151 Industrial Road, Whitehorse, Yukon Y1A 2V3
Tel. (403) 668-2000 Fax. (403) 667-2220

10/15

GST 106361645

October 1, 1997

Access Mining Consultants Ltd.
204D Strickland Street
Whitehorse, Yukon
YIA 2J8

Invoice #97-032-01-1479

Re: *Scan and Vectorize NTS Maps*
Anvil Range Area

Total Fees	$1,200.00
GST	$ 84.00
BALANCE DUE	**$1,284.00**

TERMS:
NET 30 DAYS FROM DATE OF INVOICE
2% INTEREST CHARGED PER MONTH ON OVERDUE ACCOUNTS

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: Anvil Range Mining Corporation
145 Wellington St. W., 6th Floor
Toronto, ON
M5J 1H8

Attention: Mr. Patrick Mars, President

[redacted]	ARMCOMP1097-B
[redacted]	04-Nov-97
[redacted]	Oct. 16-31/97

Re: GEOLOGICAL COMPILATION

Professional Services (see attached breakdown)

[redacted]					
2.75	G.A. Jilson	Project Management	$110 /hr	$302.50	$21.18
36.00	L. Pigage, P. Geol.	Database Layout - Coordination	$65 /hr	$2,340.00	$163.80
29.85	B. Stirling	AutoCAD Drafting	$55 /hr	$1,641.75	$114.92
36.75	H. Stirling	AutoCAD Drafting	$55 /hr	$2,021.25	$141.49
3.25	C. MacMillan	Secretarial	$40 /hr	$130.00	$9.10

Sub-total	$6,435.50	$450.49
Total Prof. Services	$6,885.99	incl. GST

Disbursements (CHARGED AT COST)

[redacted]		[redacted]	[redacted]
31-Oct-97	Plotting fees, 5 opaque bond, 63.75 ft² @ $1.00/ft², 1 colour-opaque bond, 9.5 ft² @ $1.00/ft²	$73.25	$5.13
31-Oct-97	Fax page charges, 66 pages @ $0.25/page	$16.50	$1.16
31-Oct-97	Photocopier charges, 389 pages @ $0.15/page	$58.35	$4.08
31-Oct-97	Laser printer pages, 40 pages @ $0.25/page	$10.00	$0.70

Sub-total	$158.10	$11.07
Total Disbursements	$169.17	incl. GST

	without GST	GST
Invoice Subtotal	$6,593.60	$461.55
Less Advances	$0.00	
[redacted]	$7,055.15	incl. GST

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

Access Mining Consultants Ltd.

October 1997 Hours

Person	Date	Client	Total Hours	Description of work done
BS	16-Oct-97	ARM-comp	2.75	Digitize topo for shift/query topo for MAD/FTP file/meet with Lee/generate topo plot
BS	17-Oct-97	ARM-comp	2.75	Digitize topo for shift/query topo for MAD/FTP file/meet with Lee/generate topo plot
BS	19-Oct-97	ARM-comp	2.75	Digitize topo for shift/query topo for MAD/FTP file/meet with Lee/generate topo plot
BS	20-Oct-97	ARM-comp	2.75	Digitize topo for shift/query topo for MAD/FTP file/meet with Lee/generate topo plot
BS	21-Oct-97	ARM-comp	2.75	Digitize topo for shift/query topo for MAD/FTP file/meet with Lee/generate topo plot
BS	26-Oct-97	ARM-comp	3.50	Digitize water and roads D6E & W
BS	27-Oct-97	ARM-comp	3.50	Digitize water and roads D6E & W
BS	28-Oct-97	ARM-comp	4.50	Break out topo and set up C6E, D6E & D6W
BS	29-Oct-97	ARM-comp	4.60	Break out topo and set up C6E, D6E & D6W
BS Total			29.85	
CMM	15-Oct-97	ARM-comp	1.50	Work on budget reconciliation
CMM	16-Oct-97	ARM-comp	0.75	Type letter to P. Mars from G. Jilson and send out
CMM	20-Oct-97	ARM-comp	1.00	Enter new numbers for Compilation budget
CMM Total			3.25	
GJ	21-Oct-97	ARM-comp	1.25	review project status and topo situation with Lee Pigage
GJ	22-Oct-97	ARM-comp	1.50	meet with geophysicist and pigage re geology and geophysics for compilation
GJ Total			2.75	
HS	16-Oct-97	ARM-comp	2.75	Digitize outcrops 1:120,000/move outcrops to new locations due to change in formula
HS	20-Oct-97	ARM-comp	2.75	Digitize outcrops 1:120,000/move outcrops to new locations due to change in formula
HS	21-Oct-97	ARM-comp	2.75	Digitize outcrops 1:120,000/move outcrops to new locations due to change in formula
HS	22-Oct-97	ARM-comp	6.75	Digitize outcrops 1:120,000/move outcrops to new locations due to change in formula; pull maps for contour digitizing/meet with Lee/digitize water C6E & W
HS	23-Oct-97	ARM-comp	4.00	Pull maps for contour digitizing/meet with Lee/digitize water C6E & W
HS	28-Oct-97	ARM-comp	4.00	Title block and legend/make plot for Lee
HS	29-Oct-97	ARM-comp	4.00	Title block and legend/make plot for Lee
HS	30-Oct-97	ARM-comp	5.50	Title block and legend/make plot for Lee; locate structure maps
HS	31-Oct-97	ARM-comp	4.25	Digitize suboutcrops and drillhole locations
HS Total			36.75	
LP	20-Oct-97	ARM-comp	4.00	Comparison of CAMC UTM elevation contours and federal UTM contours
LP	21-Oct-97	ARM-comp	4.50	Comparison of CAMC UTM and federal UTM maps
LP	22-Oct-97	ARM-comp	3.00	Access meeting to discuss geophysics and coordinate systems
LP	22-Oct-97	ARM-comp	1.75	Meeting with Geological Drafting Services on map conventions
LP	23-Oct-97	ARM-comp	2.00	Prepare DXF file to forward to Mike Power/Amerok
LP	24-Oct-97	ARM-comp	1.50	Determine UTM coordinates for Anvil District map sheets
LP	27-Oct-97	ARM-comp	6.00	Determine corners of map sheets, prepare memo on map sheet coordinates
LP	28-Oct-97	ARM-comp	3.25	Spreadsheet and memo on map sheet corners
LP	29-Oct-97	ARM-comp	7.25	New map sheet coordinates, revised memo on map sheet corners, memo on Autocad conventions
LP	30-Oct-97	ARM-comp	1.25	Access meeting to discuss appearance of map sheets
LP	30-Oct-97	ARM-comp	1.50	ARM office searching through archives for maps and drill logs
LP Total			36.00	

10/31 - Comp.

Access Mining Consultants Ltd. October Laser Paper Totals 03/11/97

Client Name		Fax Copies		Photocopier Copies		Laser Copies
ARM	TOTAL	66	TOTAL	389	TOTAL	40

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: **Anvil Range Mining Corporation**
145 Wellington St. W., 6th Floor
Toronto, ON
M5J 1H8

[redacted]	ARMCOMP1197-A
	18-Nov-97
	Nov. 1-15/97

Attention: **Mr. Patrick Mars, President**

Re: **GEOLOGICAL COMPILATION**

Professional Services (see attached breakdown)

5.00	G.A. Jilson	Project Management	$110 /hr	$550.00	$38.50
25.50	L. Pigage, P. Geol.	Database Layout - Coordination	$65 /hr	$1,657.50	$116.03
40.25	H. Stirling	AutoCAD Drafting	$55 /hr	$2,213.75	$154.96
29.85	B. Stirling	AutoCAD Drafting	$55 /hr	$1,641.75	$114.92
			Sub-total	$6,063.00	$424.41
			Total Prof. Services	$6,487.41	incl. GST

Disbursements (CHARGED AT COST)

01-Nov-97	Plotting fees: 5 x 63.75 ft² opaque bond @ $1/ft²	$63.75	$4.46
01-Nov-97	Plotting fees: 1 x 9.5 ft² colour-opaque bond @ $1/ft²	$9.50	$0.67
15-Nov-97	Amerok Geosciences Ltd., Invoice No. 97100, Airborne Geophysical Data Processing and Imaging	$1,310.00	$91.70
	Sub-total	$1,383.25	$96.83
	Total Disbursements	$1,480.08	incl. GST

Thank You

	without GST	GST
Invoice Subtotal	$7,446.25	$521.24
Less Advances	$0.00	
[redacted]	$7,967.49	incl. GST

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

[redacted] Mining Consultants

November 1-15, 1997 Hours

Anvil Range Mining Corporation

Person	Date	Client	Total Hours	Description of work done
GJ	07-Nov-97	ARM-comp	1.5	Meeting with L. Pigage re: topo maps
GJ	12-Nov-97	ARM-comp	3.5	Meeting with geophysicist and review data - discuss approach to geophysics with L. Pigage
GJ Total			**5.0**	
LP	3-Nov-97	ARM-comp	0.75	District survey control coordinates
LP	4-Nov-97	ARM-comp	4.75	Topography contour fitting for D6; meeting Geological Drafting Services to discuss maps
LP	5-Nov-97	ARM-comp	1.00	Research Faro NW reports
LP	6-Nov-97	ARM-comp	4.00	Digitize Eva geology and insert into regional maps
LP	7-Nov-97	ARM-comp	5.75	Access meeting to discuss C6E topo gap; memo on additional changes to C6E
LP	10-Nov-97	ARM-comp	3.75	Research Faro NW reports; meeting Geological Drafting Services to discuss maps
LP	11-Nov-97	ARM-comp	2.25	Research Faro NW reports
LP	12-Nov-97	ARM-comp	3.25	Amerok meeting to view Faro NW geophysics; discuss Anvil geophysics/geology with Jilson
LP Total			**25.50**	
HS	3-Nov-97	ARM-comp	3.00	Drill hole & LCP locations 1:5000 & 1:12,000
HS	4-Nov-97	ARM-comp	6.50	Drill hole & LCP locations 1:5000 & 1:12,000; develop blocks for DDH's, survey & geological stations; meet with L. Pigage
HS	5-Nov-97	ARM-comp	11.00	Develop blocks for DDH's, Survey & geological stations; insert station locations C6E,D6E/W, Sheet 6,7,8 & D6, locate claim map/update title page
HS	6-Nov-97	ARM-comp	2.50	Locate claim map/update title page
HS	10-Nov-97	ARM-comp	9.00	Meet with L. Pigage; insert station locations C6E,D6E/W, sheet 6,7,8 & D6
HS	11-Nov-97	ARM-comp	7.00	Changes re: L. Pigage's memo "anvilchanges1'" insert station locations C6E, D6E/W, sheet 6,7,8 & D6
HS	12-Nov-97	ARM-comp	1.25	Develop structure symbols/insert on C6E & Sheet 6
HS Total			**40.25**	
BS	03-Nov-97	ARM-comp	4.00	Digitize contours C6E & float in/edit C6E topo
BS	04-Nov-97	ARM-comp	7.50	Survey station database & location; topo; meet with L. Pigage
BS	05-Nov-97	ARM-comp	5.50	Survey station database & location; topo
BS	06-Nov-97	ARM-comp	6.00	Topo; RV claims
BS	07-Nov-97	ARM-comp	4.75	RV claims
BS	10-Nov-97	ARM-comp	2.10	Meet with L. Pigage
BS Total			**29.85**	

Amerok Geosciences Ltd.

11 Canyon Cres.
Whitehorse, Yukon Y1A 5V8
Phone: (867) 668-7672
Fax: (867) 393-3577
E-mail: amerok@yknet.yk.ca

11/15

INVOICE

GST No.: RT89493 8588
File: 97-35

Invoice 97100
November 15, 1997

In account with: **Access Mining Consultants Ltd.**
204D Strickland Street.
Whitehorse, YT
Y1A 2J8

Re: **Airborne Geophysical Data Processing and Imaging - Anvil Range**
(November 1-15, 1997)

Professional Services:

5790 Subs - Other

Data Processing	
Downloading, grid conversion -3.0 hrs @ $60	$180.00
EM gridding - setup charge (per contract)	$600.00
Imaging and consultation: 2.5 hrs @ $60	$150.00
RTICadd - 2 shaded plots 2.0 hrs @ $60	$120.00
CADD	
4.5 hours @ $40/hour	$180.00

Other Charges:

5140 Plotting — 2 E-size full colour plots — $80.00

Subtotal	$1310.00
Federal GST	$91.70
TOTAL	**$1401.70**

Access Mining Consultants Ltd.		
CLIENT	CODING	AMOUNT
ARM	ARM-Comp	
	5140	$ 80.00
	5790	$ 1230.00
	GST:	$ 91.70
	TOTAL:	1,401.70
Approved:		Date: 11/17/97

Terms: Net 30 days. Interest charged at 2% per month on overdue accounts

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: Anvil Range Mining Corporation
145 Wellington St. W., 6th Floor
Toronto, ON
M5J 1H8

[redacted]	ARMCOMP1197-B
[redacted]	01-Dec-97
[redacted]	Nov. 16-30/97

Attention: Mr. Patrick Mars, President

Re: GEOLOGICAL COMPILATION

Professional Services (see attached breakdown)

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
64.50	G.A. Jilson	Geological Interpretation	$110 /hr	$7,095.00	$496.65
53.25	L. Pigage, P. Geol.	Geological Interpretation	$65 /hr	$3,461.25	$242.29
62.90	H. Stirling	AutoCAD Drafting	$55 /hr	$3,459.50	$242.17
16.00	B. Stirling	AutoCAD Drafting	$55 /hr	$880.00	$61.60

Sub-total	$14,895.75	$1,042.70
Total Prof. Services	$15,938.45	incl. GST

Disbursements (CHARGED AT COST)

[redacted]	[redacted]	[redacted]	[redacted]
27-Nov-97	Amerok Geosciences Ltd., Invoice 97105, Data Processing and Imaging	$290.00	$20.30
30-Nov-97	Plotting, No. 3 opaque bond, 14.55 ft² @ $1.5/ft²	$21.83	$1.53
30-Nov-97	Plotting, No. 1 color line, 11.50 ft² @ $1.00/ft²	$11.50	$0.81
30-Nov-97	Plotting, No. 3 light color bond, 36.75 ft² @ $1.5/ft²	$55.13	$3.86
30-Nov-97	Plotting, No. 1 black & white bond, 7.25 ft² @ $1.00/ft²	$7.25	$0.51

Sub-total	$385.70	$27.00
Total Disbursements	$412.70	incl. GST

Thank You

	without GST	GST
Invoice Subtotal	$15,281.45	$1,069.70
Less Advances	$0.00	
[redacted]	$16,351.15	incl. GST

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

Access Mining Consultants Ltd.

November 1997 Hours

Person	Date	Client	Total Hours	Description of work done
H. Stirling	14-Nov-97	ARM-comp	4.00	Develop structure symbol/s insert on C6E & Sheet 6
H. Stirling	15-Nov-97	ARM-comp	3.90	Meet with L. Pigage; insert station locations C6E,D6E/W, sheet 6,7,8 & D6
H. Stirling	17-Nov-97	ARM-comp	6.00	Structure for Sheet 6 1:5000
H. Stirling	18-Nov-97	ARM-comp	4.50	Change layer names and colors/plots for L. Pigage; Structure for Sheets 7 & D-6-4
H. Stirling	19-Nov-97	ARM-comp	2.50	Change layer names and colors/plots for L. Pigage
H. Stirling	20-Nov-97	ARM-comp	6.00	Structure for Sheets 7 & D-6-4
H. Stirling	21-Nov-97	ARM-comp	4.00	Meet with L. Pigage/Structure on D6 E&W 1:12,000
H. Stirling	24-Nov-97	ARM-comp	9.00	Structure on D6 E&W 1:12,000, title block changes/check station # & move
H. Stirling	25-Nov-97	ARM-comp	5.00	Title block changes/check station # & move
H. Stirling	26-Nov-97	ARM-comp	6.00	Meet with L. Pigage, update structure, changes to Sheet C6E
H. Stirling	27-Nov-97	ARM-comp	6.00	Geology C6E 1:12,000
H. Stirling	28-Nov-97	ARM-comp	6.00	Geology D6E 1:12,000
H. Stirling			62.90	
B Stirling	17-Nov-97	ARM-comp	3.00	Set up colors/set up fills/plot/meet with L. Pigage
B Stirling	19-Nov-97	ARM-comp	2.00	Set up colors/set up fills/plot/meet with L. Pigage
B Stirling	21-Nov-97	ARM-comp	2.00	Set up colors/set up fills/plot/meet with L. Pigage
B Stirling	26-Nov-97	ARM-comp	2.00	Meet with L. Pigage/Claims on D6E & W
B Stirling	27-Nov-97	ARM-comp	4.50	Meet with L. Pigage/Claims on D6E & W/update logo add to title page/fill in legend/topo D6W
B Stirling	28-Nov-97	ARM-comp	2.50	Update logo, add to title page/fill in legend/topo D6W
B Stirling			16.00	
L. Pigage	16-Nov-97	ARM-comp	1.50	Autocad rock type colours
L. Pigage	17-Nov-97	ARM-comp	3.25	Structural data from L. Pigage (1988) mapping
L. Pigage	18-Nov-97	ARM-comp	5.75	Coordinate conversion, Autocad lithology colours, geology review
L. Pigage	19-Nov-97	ARM-comp	2.75	Autocad layer conventions, map editing
L. Pigage	20-Nov-97	ARM-comp	4.50	Access meeting for map review
L. Pigage	21-Nov-97	ARM-comp	4.50	GDS meeting for map revisions, Anvil office for information search
L. Pigage	22-Nov-97	ARM-comp	4.00	Edit map C6E, geology D6W
L. Pigage	26-Nov-97	ARM-comp	7.00	Geology C6E, D6W, D6E
L. Pigage	27-Nov-97	ARM-comp	7.00	Geology C6E, D6W, D6E
L. Pigage	28-Nov-97	ARM-comp	7.00	Geology C6E, D6W, D6E
L. Pigage	29-Nov-97	ARM-comp	3.00	Geology C6E, D6W, D6E
L. Pigage	30-Nov-97	ARM-comp	3.00	Geology C6E, D6W, D6E
L. Pigage Total			53.25	
G. Jilson	15-Nov-97	ARM-comp	8.00	review old interpretation and new geophysics
G. Jilson	17-Nov-97	ARM-comp	6.00	new preliminary contacts for C6 and D6 (at 1:24,000)
G. Jilson	18-Nov-97	ARM-comp	6.00	check geophysics against interpretation
G. Jilson	19-Nov-97	ARM-comp	7.00	review field notes, check outcrops, revise preliminary interpretation, review budget
G. Jilson	20-Nov-97	ARM-comp	8.00	meet w/ Amerok re maps, meet L. Pigage,goto Anvil office look for maps and notes

Access Mining Consultants Ltd.

November 1997 Hours

Person	Date	Client	Total Hours	Description of work done
G. Jilson	21-Nov-97	ARM-comp	7.50	join new geophysics and geology maps, preliminary interpretation
G. Jilson	22-Nov-97	ARM-comp	8.00	interpret D6W in more detail, cross check notes
G. Jilson	27-Nov-97	ARM-comp	6.50	check interpretation, revise as needed
G. Jilson	28-Nov-97	ARM-comp	7.50	lay out cross section lines on C6E and D6E
G. Jilson Total			64.50	
Grand Total			196.65	

11/30



Amerok Geosciences Ltd.

11 Canyon Cres.
Whitehorse, Yukon Y1A 5V8
Phone: (867) 668-7672
Fax: (867) 393-3577
E-mail: amerok@yknet.yk.ca

COPY

INVOICE

GST No.: RT89493 8588
File: 97-35

Invoice 97105
November 27, 1997

In account with: **Access Mining Consultants Ltd.**
204D Strickland Street.
Whitehorse, YT
Y1A 2J8

Re: **Airborne Geophysical Data Processing and Imaging - Anvil Range**
(November 16 - 22, 1997)

Professional Services:

Data Processing		
Imaging and consultation: 3.0 hours @ $60/hour		$180.00
Other Charges:		
2 E-size full colour plots @ $40/plot		$80.00
1 E-size B/W shade plot		$30.00
	Subtotal	$290.00
	Federal GST	$20.30
	TOTAL	**$310.30**

Terms: Net 30 days. Interest charged at 2% per month on overdue accounts

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: Anvil Range Mining Corporation
145 Wellington St. W., 6th Floor
Toronto, ON
M5J 1H8

Attention: Mr. Patrick Mars, President

Re: GEOLOGICAL COMPILATION

Invoice #	ARMCOMP1297
Date	08-Jan-98
Pay Period Ending	31-Dec-97

Professional Services (see attached breakdown)

HOURS	PERSON	PURPOSE	RATE	AMOUNT	G.S.T.
100.00	H. Stirling	AutoCAD Drafting	$55 /hr	$5,500.00	$385.00
11.00	B. Stirling	AutoCAD Drafting	$55 /hr	$605.00	$42.35
			Sub-total	$6,105.00	$427.35
			Total Prof. Services	$6,532.35	incl. GST

Disbursements (CHARGED AT COST)

DATE	DESCRIPTION	AMOUNT (without GST)	GST
15-Dec-97	Rob McIntyre, Expense Report #EXRM9708, electronic map database purchase	$184.00	$12.88
15-Dec-97	Plotting fees: 1 light color bond, 12.25 ft² @ $1.50/ft²	$18.38	$1.29
29-Dec-97	Arctic Star Printing, Invoice 15748, blueprint charges	$17.49	$1.22
31-Dec-97	Fax and photocopier page charges, 48 pages @ $0.25/page	$12.00	$0.84
	Sub-total	$231.87	$16.23
	Total Disbursements	$248.10	incl. GST

Thank You

	without GST	GST
Invoice Subtotal	$6,336.87	$443.58
Less Advances	$0.00	
Balance Owing	$6,780.45	incl. GST

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

Access Mining Consultants Ltd.
December 1997 Hours

Person	Date	Client	Total Hours	Description of work done
B. Stirling	1-Dec-97	ARM-comp	3.00	Meet with L. Pigage; Claim map for G. Jilson; Update legend
B. Stirling	4-Dec-97	ARM-comp	2.00	D6E road error; meet with L. Pigage & G. Jilson
B. Stirling	5-Dec-97	ARM-comp	1.50	Meet with L. Pigage & G. Jilson re: road error
B. Stirling	9-Dec-97	ARM-comp	1.50	Set up colors; set up and redo fills; edit legend
B. Stirling	10-Dec-97	ARM-comp	2.00	Set up colors; set up and redo fills; edit legend
B. Stirling	11-Dec-97	ARM-comp	1.00	Update DWF files, upload to web site
B. Stirling Total			11.00	
H. Stirling	1-Dec-97	ARM-comp	4.00	Digitize geology sheet 6, 1:5,000
H. Stirling	2-Dec-97	ARM-comp	2.50	Digitize geology sheet 7, 1:5,000
H. Stirling	3-Dec-97	ARM-comp	8.50	Digitize geology sheet 7, 1:5,000; digitize geology sheet 8, 1:5,000; digitize geology sheet D6 E&W, 1:12,000
H. Stirling	4-Dec-97	ARM-comp	4.00	Digitize geology sheet D6 E&W, 1:12,000
H. Stirling	5-Dec-97	ARM-comp	5.50	Digitize geology sheet D6 E&W, 1:12,000; changes from L. Pigage for C6E & D6E/W
H. Stirling	8-Dec-97	ARM-comp	6.00	Changes from L. Pigage for C6E & D6E/W; Digitize Topo Sheet E-6-3 W1/2 & E1/2, 1:5,000
H. Stirling	9-Dec-97	ARM-comp	7.00	Digitize Topo Sheet E-6-4 W1/2 & E1/2, 1:5,000
H. Stirling	10-Dec-97	ARM-comp	7.00	Digitize Topo Sheet E-6-5 E1/2 & E-6-6 W1/2 & E1/2
H. Stirling	11-Dec-97	ARM-comp	3.75	Digitize Topo Sheet E-6, 1:12,000
H. Stirling	12-Dec-97	ARM-comp	3.75	Digitize Topo Sheet E-6, 1:12,000
H. Stirling	16-Dec-97	ARM-comp	4.50	Digitize physical features 1:5,000 F-6-6 W1/2 & E1/2
H. Stirling	17-Dec-97	ARM-comp	3.50	Digitize physical features 1:5,000 F-6-3 E1/2
H. Stirling	18-Dec-97	ARM-comp	3.25	Digitize physical features 1:5,000 F-6-3 E1/2
H. Stirling	19-Dec-97	ARM-comp	2.75	Digitize physical features 1:5,000 F-6-4 E1/2
H. Stirling	22-Dec-97	ARM-comp	4.00	Digitize physical features 1:5,000 F-6-4 E1/2 and F-6-3 W1/2
H. Stirling	23-Dec-97	ARM-comp	3.00	Digitize physical features 1:5,000 F-6-3 W1/2 and F-6-4 W1/2
H. Stirling	28-Dec-97	ARM-comp	4.00	Digitize physical features 1:5,000 F-6-4 W1/2
H. Stirling	29-Dec-97	ARM-comp	7.00	Digitize physical features 1:5,000 F-6-4 W1/2 and 1:12,000 F-6
H. Stirling	30-Dec-97	ARM-comp	8.50	Clean up F-6 1:12,000 & 1:5,000 files; digitize physical features 1:5,000 G-6-3 W1/2 & G-6-5 W1/2
H. Stirling	31-Dec-97	ARM-comp	7.50	Digitize physical features 1:5,000 G-6-3 E1/2 & G-6-5 E1/2
H. Stirling Total			100.00	

12/31

ACCESS MINING CONSULTANTS LTD.

Department		
	Communications -- 5170	$0.00
	Travel and Accomodation -- 5880	$0.00
	Vehicle -- 5910	$19.97
	Meals -- 5870	$76.81
	Entertainment -- 5850	$895.10
	GST -- 2525	$82.31
	Books,maps & publications -- 5220	
	Photo & video supplies, Developing -- 5210	
	Office Supplies -- 5120	
	Printing & copying -- 5140	
	Field supplies -- 5810	
	Miscellaneous expense -- 5125	

EXPENSE REPORT

Employee Name: Rob McIntrye | From Date: Sept 09/97 | Submitted By: RLM | Expense Report Number: EXRM9708

Purpose: Access - Geoscience, Christmas, projects | To Date: Dec 12/97 | Approved By: _____ | Date Submitted: 15-Dec-97

Date	Communications 5170	Vehicle Operating Expense 5910	Travel: Hotel	Travel: Surface 5880	Travel: Air Fares	Travel: Meals 5870	Travel: (non tax) Groceries	Entertainment 5860	Purpose / Description	Other / Miscellaneous	Code for other	Client	Recover? Y/N	Total
97/09/19									electronic map data base for Anvil	196.88		ANV	y	$196.88
97/09/26								19.40	lunch - D. Austin			ycm	n	$19.40
97/11/05								19.00	lunch - L. Clarkson & RLM			kpma	n	$19.00
97/11/13								56.15	rlm/ddc/ diand staff			amc	n	$56.15
97/11/15						48.25			RLM / DIAND Mining rec.			amc	n	$48.25
97/11/20								46.75	lunch mtg. - D. Austin			YCM	n	$46.75
97/11/21								46.75	RLM/GAJ & M. Attaway - Viceroy			vic	n	$46.75
97/11/24						21.40			Geoscience luncheon			amc	n	$21.40
[illegible]								17.00	lunch - JMG & RLM			yes	n	$17.00
								27.03	Chamber lunch			ycm	n	$27.03
									lunch - RLM & CAM - Rsway report			yes	n	$12.54
									winter wipers, snow brush			amc	n	$21.37
								725.68	Christmas dinner for partners & Staff			amc	n	$725.68
														$0.00
														$0.00
														$0.00
														$0.00
														$0.00
														$0.00
														$0.00
.00								$895.10		$184.00				$1,175.89
.00								$62.66		$12.88	GST for Report=			$82.31
Meals											Advances to Employee:			$0.00
											Paid by cheque No.: _____		Balance Due Employee:	$1,258.20

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4516-017-134-017
09/97
ROBERT L. McINTYRE

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AMOUNT-MONTANT
DATE 09 19 97
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INRAW
VERIFICATION
5061
DESCRIPTION
AMOUNT-MONTANT
NMDB FILE 184 00
#04815
SALES DRAFT CHARGEX FACTURE 12 88
CDN $ CAN 196 88

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ACCESS CONSULTING GROUP

12/31

Client Name	Fax Copies	Photocopier Copies	Laser Copies
ARM	*Total = 16*	*Total = 32*	*Total = 0*

DECEMBER Total Paper Count = 48

ARCTIC STAR PRINTING INC.

204 Strickland St. Whitehorse, Y.T., Y1A 2J8 Phone: (403) 668-4733

JAN 05 1998

12/31

INVOICE NUMBER No 15748

SOLD TO: Access Mining

ADDRESS: 204 - D Strickland St
Whse, Yt Y1A 2J8

DATE: ~~Nov 27~~ 29 Dec. 9

ORDER #:

NUMBER OF ORIGINALS	NUMBER OF COPIES	TOTAL	DESCRIPTION	UNIT PRICE	AMOUNT	
2	1	2	42" x 54" BLUEPRINTS "ANVIL" 31.5	LB	6	93
4	1	4	36x 48 "ANVIL" 48.5	Per LB	10	56
4	1	4	8½ x 11 Copies New Millennium			40
Nov 27		15	8½x11 Fusion Blue Cover (Black) Westmin	.75	1	50
		2	11x17 Color Copies New Millenium	3.50	7	—
Dec 12		5	2" Color Bindings Vicemy R.S.	3.60	3	—
		20	8½x11 R.F. Blue Cover - Vicemy R.S.		2	80

Access Mining Consultants Ltd.		
CLIENT	CODING	AMOUNT
ARM		
Nmml		7.40
Vicemy		
WRL		4.50
	GST	
	TOTAL	34.94
Approved:		Date 9.05/98

QUANTITY ORDERED	QUANTITY SHIPPED				
		SUB TOTAL		32	19
			G.S.T.	2	25
			TOTAL $	34	44

THIS IS YOUR INVOICE • PAYABLE UPON RECEIPT • 2% PER MONTH CHARGED ON ALL OVERDUE ACCOUNTS

GST Registration # R100251677

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: Anvil Range Mining Corporation
145 Wellington St. W., 6th Floor
Toronto, ON
M5J 1H8

Invoice #	ARMCOMP0198-A
Date	31-Jan-98
For Period Ending	Jan. 1-15/98

Attention: Mr. Patrick Mars, President

Re: GEOLOGICAL COMPILATION

Professional Services (see attached breakdown)

Hours	Person	Services	Rate	Amount	GST
27.25	G. Jilson	Geological Interpretation	$110 /hr	$2,997.50	$209.83
60.50	H. Stirling	AutoCAD Drafting	$55 /hr	$3,327.50	$232.93
3.25	B. Stirling	AutoCAD Drafting	$55 /hr	$178.75	$12.51
41.50	L. Pigage, P. Geol.	Geological Interpretation	$65 /hr	$2,697.50	$188.83
19.50	S. MacDougall	Database work	$55 /hr	$1,072.50	$75.08
2.00	C. MacMillan	Secretarial	$40 /hr	$80.00	$5.60
			Sub-total	$10,353.75	$724.76
			Total Prof. Services	$11,078.51	incl. GST

Disbursements (CHARGED AT COST)

Date	Description	Amount w/o GST	GST
31-Dec-97	Long distance telephone and fax charges for November/December	$16.32	$1.14
	Sub-total	$16.32	$1.14
	Total Disbursements	$17.46	incl. GST

	without GST	GST
Invoice Subtotal	$10,370.07	$725.90
Less Advances	$0.00	
Total Due	$11,095.97	incl. GST

Thank You

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payable 30 days from date of invoice, 1.5% interest per month charged on overdue accounts

Access Mining Consultants Ltd.
January 1-15, 1998 Hours
Anvil Range Mining Corporation

Person	Date	Client	Total Hours	Description of work done
L. Pigage	2-Jan-98	ARM-comp	3.00	Database design for stations and drill holes - review FieldLog
L. Pigage	5-Jan-98	ARM-comp	2.50	Meeting with Geological Drafting to determine progress of activities; drill hole database design - test possible FieldLog
L. Pigage	6-Jan-98	ARM-comp	6.50	Meeting with G. Jilson for progress report; database design for stations and drill holes - memo on database design
L. Pigage	7-Jan-98	ARM-comp	3.75	Database designs for field notes and drill holes
L. Pigage	8-Jan-98	ARM-comp	2.25	Transfer PC-XPLOR databases from CD-ROM to hard drive
L. Pigage	9-Jan-98	ARM-comp	2.75	Determine shift and rotation for 12,000 data fit to 5,000 coordinates - G6, E6; meeting with G. Jilson for progr report
L. Pigage	12-Jan-98	ARM-comp	4.00	Determine shift and rotation for 12,000 data fit to 5,000 coordinates - G6, E6, D6
L. Pigage	13-Jan-98	ARM-comp	8.00	Determine shift and rotation for 12,000 data fit to 5,000 coordinates - F6W, F6E; Eva drill hole locations - digitize air photo and insert into drawing for comparison - memo
L. Pigage	14-Jan-98	ARM-comp	1.50	Download primary digitizing files for C6, D6 from internet to start topography base shift
L. Pigage	15-Jan-98	ARM-comp	7.25	C6, D6 shift 12,000 topography features to correspond to 5,000 coordinate system
L. Pigage Total			**41.50**	
H. Stirling	2-Jan-98	ARM-comp	5.00	Digitize physical features 1:5,000 G-6-3 E1/2, G-6-5 E1/2, G-6-4 W1/2 & G-6-6 W1/2
H. Stirling	5-Jan-98	ARM-comp	6.00	Digitize physical features 1:5,000 G-6-6 E1/2, G-6-4 E1/2, meeting with L. Pigage
H. Stirling	6-Jan-98	ARM-comp	7.00	Clean up 1:5,000 files, digitize physical features 1:12,000 G-6
H. Stirling	7-Jan-98	ARM-comp	7.50	Digitize physical features 1:12,000 G-6, digitize outcrops and stations 1:5,000 E-6-4 W1/2
H. Stirling	8-Jan-98	ARM-comp	7.00	Digitize outcrops and stations 1:5,000 E-6-4 W1/2, E-6-3 W1/2
H. Stirling	9-Jan-98	ARM-comp	7.00	Digitize physical features 1:12,000 D-6 & 1:5,000 D-6-4 E1/2
H. Stirling	11-Jan-98	ARM-comp	3.50	Digitize physical features 1:5,000 D-6-3 W1/2, 1:digitize outcrops and stations 1:12,000 E-6
H. Stirling	12-Jan-98	ARM-comp	3.50	Digitize outcrops and stations 1:12,000 E-6
H. Stirling	13-Jan-98	ARM-comp	3.50	Digitize outcrops and stations 1:12,000 E-6
H. Stirling	14-Jan-98	ARM-comp	7.00	E-mail files to L. Pigage, digitize outcrops and stations 1:5,000 E-6-5 W1/2
H. Stirling	15-Jan-98	ARM-comp	3.50	Digitize outcrops and stations 1:5,000 E-6-4 E1/2
H. Stirling Total			**60.50**	
B. Stirling	5-Jan-98	ARM-comp	1.00	Meeting with L. Pigage; update dwf files
B. Stirling	8-Jan-98	ARM-comp	0.50	Update dwf files
B. Stirling	13-Jan-98	ARM-comp	0.50	File maintenance
B. Stirling	14-Jan-98	ARM-comp	1.00	Breakout and e-mail topo files to L. Pigage
B. Stirling	15-Jan-98	ARM-comp	0.25	File maintenance
B. Stirling Total			**3.25**	
S. MacDougall	7-Jan-98	ARM-comp	5.00	Enter drillhole data into database
S. MacDougall	8-Jan-98	ARM-comp	8.00	Enter drillhole data into database
S. MacDougall	9-Jan-98	ARM-comp	6.50	Enter drillhole data into database
S. MacDougall Total			**19.50**	
C. MacMillan	12-Jan-98	ARM-comp	1.00	Updated Compilation budget spreadsheet
C. MacMillan	13-Jan-98	ARM-comp	1.00	Worked on Compilation budget spreadsheet
C. MacMillan Total			**2.00**	

Access Mining Consultants Ltd.
January 1-15, 1998 Hours
Anvil Range Mining Corporation

Person	Date	Client	Total Hours	Description of work done
G. Jilson	6-Jan-98	ARM-comp	2.50	meet w/ Lee Pigage re data entry etc.
G. Jilson	7-Jan-98	ARM-comp	6.00	go to Anvil office to find drill logs etc., discuss data entry w/ S. McDougal, check inputs, review maps
G. Jilson	8-Jan-98	ARM-comp	4.00	go over data entry w/ S. McDougal, check data
G. Jilson	9-Jan-98	ARM-comp	1.75	meet w/ Lee Pigage, go over info for data entry
G. Jilson	12-Jan-98	ARM-comp	3.50	review geophysics to trace left lateral faults -- outline area for next plot
G. Jilson	14-Jan-98	ARM-comp	3.00	check coordinate shifts on each map sheet
G. Jilson	15-Jan-98	ARM-comp	6.50	review outcrop patterns on CDE/6 sheets – outline folds in unit 5C and possible fault W of Faro
G. Jilson Total			**27.25**	

ACCESS MINING CONSULTANTS LTD.
NOVEMBER/DECEMBER PHONE BILL

11	27	fax	Toronto	416-348-9353	$1.64	Anvil Range - Executive fax	ARM
12	3	fax	Toronto	416-348-9353	$2.46	Anvil Range - Executive fax	ARM
12	9	ph	Toronto	416-348-8955	$0.82	Anvil Range Toronto switchboard	ARM
12	9	ph	Toronto	416-348-8955	$3.28	Anvil Range Toronto switchboard	ARM
12	10	ph	Novancouver	604-986-8551	$8.12	Pitean Assoc. ph	ARM
					$16.32		**ARM Total**

ACCESS MINING CONSULTANTS LTD.
204 D Strickland Street, Whitehorse, Yukon Y1A 2J8
Phone (403) 668-6463

INVOICE
G.S.T # 89899 7689

To: Anvil Range Mining Corporation
145 Wellington St. W., 6th Floor
Toronto, ON
M5J 1H8

[redacted]	ARMCOMP0298
[redacted]	04-Feb-98

Attention: Mr. Patrick Mars, President

Re: GEOLOGICAL COMPILATION PROJECT

Complete geological compilation of sheets C&D6 and complete topographic base map preparation for sheets E, F and G6 (to be done by March 1, 1998)

Professional fees:

	Amount	GST
Geological Work	$11,500.00	$805.00
Drafting	$3,000.00	$210.00
Sub-total:	$14,500.00	$1,015.00

Disbursements:

	Amount	GST
Plotting fees	$500.00	$35.00
Sub-total:	$500.00	$35.00

Sub-total this section:	**$16,050.00**

Compile reports describing all assessment work filed, photocopy and submit (to be done by April 1998)

	Amount	GST
Geological Work:	$10,000.00	$700.00

Sub-total this section:	**$10,700.00**

GRAND TOTAL DUE:	**$26,750.00**

Please make cheque payable to Access Mining Consultants Ltd. at the above address, Thank You
Terms: Payment in Advance

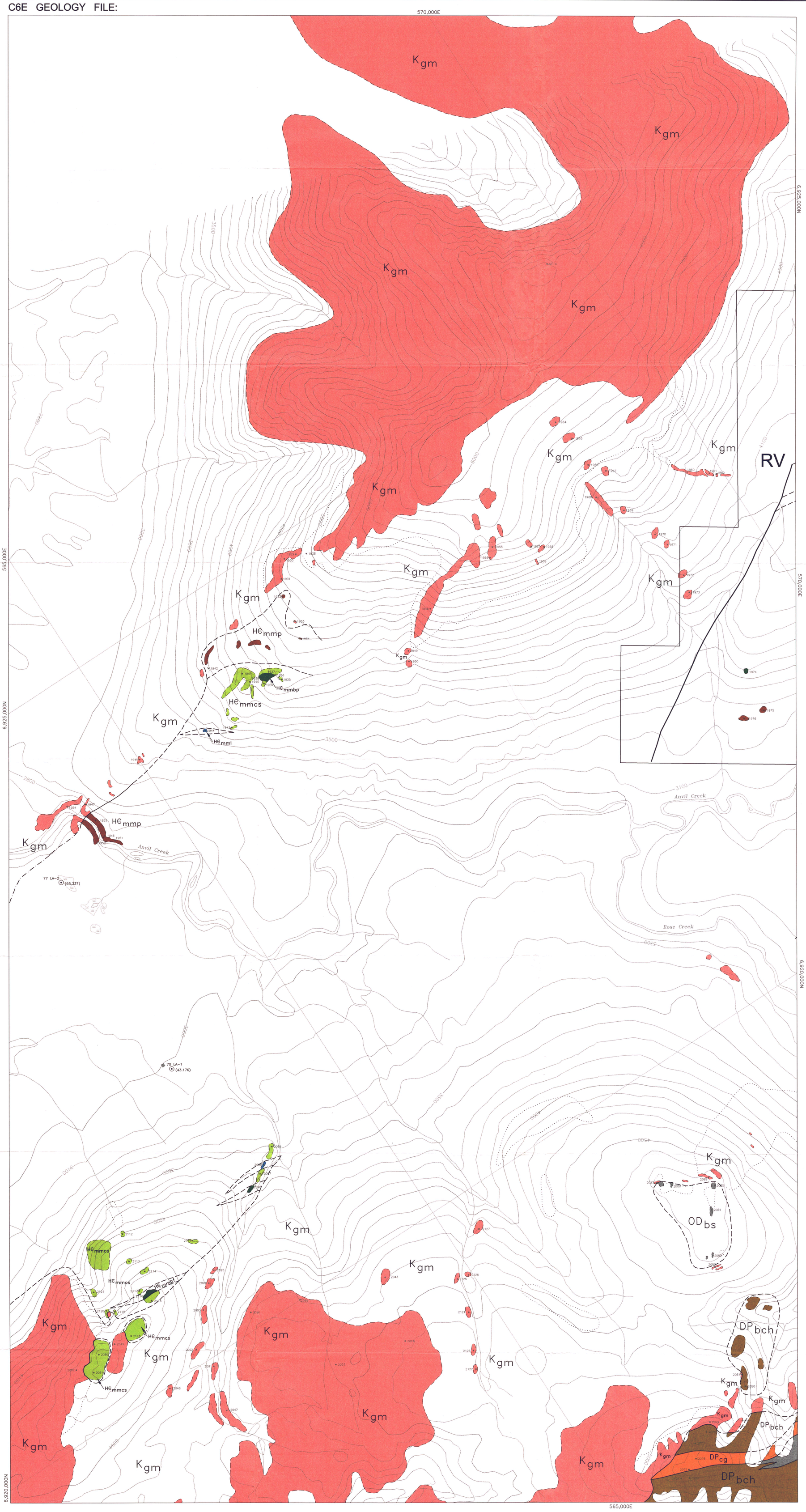
C6E GEOLOGY FILE:

570,000E

565,000E

6,925,000N

6,920,000N



ROCK UNITS

CRETACEOUS

INTRUSIVE ROCKS

Anvil Dyke Suite

- K_{gf} Smoky Quartz - feldspar porphyry
- K_{ge} Homeblende - biotite granite

Anvil Plutonic Suite

- K_{gmm} Mt. Mye phase: biotite-muscovite granite
- K_{go} Orchay phase: biotite-hornblende granite
- K_{gm} Marjorie phase: biotite-hornblende granite with quartz phenocrysts
- K_{gp} Pegmatite to aplite dykes

PALEOZOIC

Vangorda Creek Fault Zone-mafic-ultramafic complex

- P_z g-gabbro, di-diabase, sp-serpentinite, h-harzburgite, r-rodingite, b-basalt, e-eclogite

Yukon Tanana Terrane

- P_{zytqs} Micaceous quartzite or schist
- P_{zytqs} Poorly foliated, dark green metabasite/amphibolite
- P_{zytqs} Eclogite

DEVONIAN-PERMIAN

Undifferentiated Earn Group and Anvil Range Group

- Dpb Epidotized, massive basalt
- DP_{rch} Red to maroon, green and beige phyllite chert
- DP_{bch} Green, black and beige phyllite chert
- DP_{bs} Carbonaceous shale/phyllite, siltstone, chert
- DP_{l} Carbonaceous shale with bioclastic limestone
- DP_{cg} Chert pebble conglomerate, sandstone
- DP_{ba} Laminated to nodular barite
- DP_{t} Green (fuffaceous?) slate and tuff

ORDOVICIAN-DEVONIAN

Road River Group

- OD_{bs} Carbonaceous, slightly calcareous, locally graptolitic shale
- OD_{l} Massive limestone, locally crinoidal

Menzie Creek formation

- O_{mc} Foliated, amygdaloidal basalt, tuff, breccia

CAMBRIAN - ORDOVICIAN

Vangorda formation

- ϵO_{vp} Calcareous, medium grey phyllite (greenschist facies)
- ϵO_{vcs} Striped cream and brown calc-silicate (amphibolite facies)
- ϵO_{vpg} Pale green, calcareous phyllite - contact metamorphosed adjacent to metabasites
- ϵO_{vg} Carbonaceous, locally calcareous phyllite/schist
- ϵO_{vl} Marble
- /// Skarn
- ϵO_{vb} Poorly foliated, dark green, metabasite/amphibolite
- ϵO_{vbf} Foliated medium green chloritic phyllite/schist
- ϵO_{vbp} Metamorphosed pyroxenite, interbedded phyllite, calc-silicate, metabasite
- ϵO_{va} Transitional unit from Vangorda formation to Mt. Mye formation

CAMBRIAN

Ore Zones (in Vangorda and Mt. Mye formations)

- ϵ_{ms} Massive sulphides
- ϵ_{qs} Quartzose disseminated sulphides

Alteration associated with mineralization (with mica envelopes)

HADRYNIAN-CAMBRIAN

Mt. Mye formation

- HE_{mmp} Noncalcareous brownish grey phyllite
- HE_{mmpu} Upper horizon
- HE_{mmpl} Lower horizon
- HE_{mms} Noncalcareous brownish grey schist
- HE_{mmsu} Upper horizon
- HE_{mmsl} Lower horizon
- HE_{mmcs} Striped cream and brown calc-silicate
- /// Skarn
- HE_{mmgp} Noncalcareous, carbonaceous phyllite
- HE_{mmgs} Noncalcareous, carbonaceous schist
- HE_{mml} Grey marble
- /// Skarn
- HE_{mmglp} Carbonaceous phyllite with dark marble lenses
- HE_{mmgls} Carbonaceous schist with dark marble lenses
- HE_{mmb} Poorly foliated, dark green metabasite/amphibolite
- HE_{mmbf} Well foliated, medium green chloritic phyllite/schist
- HE_{mmbp} Metamorphosed pyroxenite

OTHER FEATURES

- Geological contact defined, approximate, inferred
- Fault defined, approximate, inferred (ball on downthrown side)
- Lineament
- Thrust fault defined, approximate, inferred (teeth on overthrust panel)
- Inferred stratigraphic boundary between Earn Group and Anvil Range Group
- X Outcrop, subcrop, float
- Bedding (S_0) compositional layering (strike,dip) upright, overturned, vertical
- Foliation/Cleavage (strike,dip) phase 1, phase 2, phase 3, unknown
- Fold axis (azimuth/plunge) phase indicated by # of arrowheads (vergence sense looking down plunge; phase)
- Lineation (azimuth/plunge) phase indicated by # of arrowheads (lineation type; phase)
  - S elongation/stretching
  - M mineral
  - P prismatic phenocrysts
  - B boudin axis
  - X intersection of planes
  - C crenulations
- Fold axial surface trace (antiform, synform) phase and plunge direction indicated by # of arrowheads upright, overturned
- Shear - shear zone (azimuth/dip) (sense of movement; slickensides or crystal fibers)
- Fracture/Joint inclined, vertical
- Glacial striae
- Vein
- Mineral isograd (marks on high grade side) (S biotite; calc-silicate: S phyllite, schist phyllite; B biotite; S sillimanite/fibrolite; St staurolite; A andalusite; G garnet)
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- 2410 Geological station
- A — A' Section line
- Trench

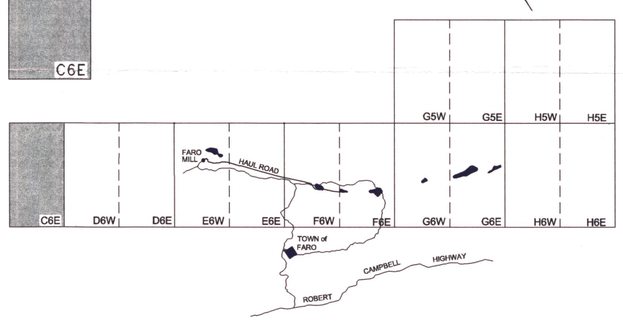
PHYSICAL FEATURES

- Road
- Trail
- Stream
- Cut line
- Building
- 1418 VG-18 Survey control point

Source of Geological Information

Jennings et al. (1975) - 1:1200

C6E



Contour Interval 100 feet

0m 500 1000 1500m

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1.2	98.08.31	First draft	HDS		
1.1	98.05.29	Updated as per field notes	HDS		GJ
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DRAFT

SHEET C6E
GEOLOGY

093888

Anvil Range MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

SCALE: 1 : 10,000			DATE: 98/08/31
NTS: 105 K/5	DRAWN:	DRAWING:	VERSION: DRAFT

File: C6E.DWG	xref: topobase	xref:	
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xref: survey_station	xref:	xref:	

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D6W GEOLOGY FILE:

6,925,000N

575,000E

570,000E

6,920,000N

6,915,000N

RV

LA

DA

Anvil Creek

Rose Creek

6VE-2 (47,142)

6VE-3 (12,374)

6VE-4 (26,319)

$H\epsilon_{mmbf}$

$H\epsilon_{mmcs}$

K_{gm}

K_{ge}

ϵO_{vb}

ϵO_{vpg}

ϵO_{vg}

O_{mc}

OD_{bs}

OD_{l}

DP_{cg}

DP_{bs}

DP_{bch}

DP_{ba}

DP_{rch}

Dpb

P_{zg}

CALC-SILICATE PHYLLITE

MULTI-68-M1 (4,153)

ROCK UNITS

CRETACEOUS

INTRUSIVE ROCKS

Anvil Dyke Suite

K_{gf} Smoky Quartz - feldspar porphyry

K_{ge} Hornblende - biotite granite

Anvil Plutonic Suite

K_{gmm} Mt. Mye phase: biotite-muscovite granite

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ORDOVICIAN-DEVONIAN

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Menzie Creek formation

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CAMBRIAN - ORDOVICIAN

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ϵO_{vl} Marble

/// Skarn

ϵO_{vb} Poorly foliated, dark green, metabasite/amphibolite

ϵO_{vbf} Foliated medium green chloritic phyllite/schist

ϵO_{vbp} Metamorphosed pyroxenite, interbedded phyllite, calc-silicate, metabasite

ϵO_{va} Transitional unit from Vangorda formation to Mt. Mye formation

CAMBRIAN

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Alteration associated with mineralization (with mica envelopes)

HADRYNIAN-CAMBRIAN

Mt. Mye formation

$H\epsilon_{mmp}$ Noncalcareous brownish grey phyllite

$H\epsilon_{mmpu}$ Upper horizon

$H\epsilon_{mmpl}$ Lower horizon

$H\epsilon_{mms}$ Noncalcareous brownish grey schist

$H\epsilon_{mmsu}$ Upper horizon

$H\epsilon_{mmsl}$ Lower horizon

$H\epsilon_{mmcs}$ Striped cream and brown calc-silicate

/// Skarn

$H\epsilon_{mmgp}$ Noncalcareous, carbonaceous phyllite

$H\epsilon_{mmgs}$ Noncalcareous, carbonaceous schist

$H\epsilon_{mml}$ Grey marble

/// Skarn

$H\epsilon_{mmglp}$ Carbonaceous phyllite with dark marble lenses

$H\epsilon_{mmgls}$ Carbonaceous schist with dark marble lenses

$H\epsilon_{mmb}$ Poorly foliated, dark green metabasite/amphibolite

$H\epsilon_{mmbf}$ Well foliated, medium green chloritic phyllite/schist

$H\epsilon_{mmbp}$ Metamorphosed pyroxenite

OTHER FEATURES

Geological contact defined, approximate, inferred

Fault defined, approximate, inferred (ball on downthrown side)

Lineament

Thrust fault defined, approximate, inferred (teeth on overthrust panel)

Inferred stratigraphic boundary between Earn Group and Anvil Range Group

X Outcrop, subcrop, float

Bedding (S_0) compositional layering (strike,dip) upright, overturned, vertical

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Fold axis (azimuth/plunge) phase indicated by # of arrowheads (vergence sense looking down plunge)

Lineation (azimuth/plunge) phase indicated by # of arrowheads (lineation type)

S elongation/stretching

M mineral

P prismatic phenocrysts

B boudin axis

X intersection of planes

C crenulations

Fold axial surface trace (antiform, synform) phase and plunge direction indicated by # of arrowheads upright, overturned

Shear - shear zone (azimuth/dip) (sense of movement, slickensides or crystal fibers)

Fracture/Joint inclined, vertical

Glacial striae

Vein

Mineral isograd (marks on high grade side) S biotite, B biotite, S sillimanite/fibrolite, St staurolite, A andalusite, G garnet; calc-silicate phyllite; schist phyllite

Diamond drill hole (30, 250) location approximate; location defined in field; (overburden depth, total length in metres)

Rotary drill hole (30, 250) location approximate; location defined in field; (overburden depth, total length in metres)

• 2410 Geological station

A A' Section line

Trench

PHYSICAL FEATURES

Road

Trail

Cut line

Stream

Building

1418 VG-18 Survey control point

Source of Geological Information

Jennings et al. (1975) - 1:200

D6W

T.N. 1.57° UTM North

C6E D6W D6E E6W E6E F6W F6E G5W G5E G6W G6E H5W H5E H6E H6W

FARO MILL HAUL ROAD TOWN of FARO CAMPBELL HIGHWAY ROBERT

Contour Interval 100 feet

0m 500 1000 1500m

VERSION	DATE	REVISION	BY	CHK	APPD
1.2	98.08.31	First draft	HDS		
1.1	98.05.29	Updated as per field notes	HDS		GJ
1.0	97.11.09	Updated as per field notes	HDS	LCP	GJ

DRAFT

SHEET D6W
GEOLOGY

093 888

Anvil Range MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

SCALE: 1 : 10,000			DATE: 98/08/31
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xref: ANVIL_GEOLOGY	xref: claims	xref:	
xref: survey_station	xref:	xref:	

D6W(2)

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D6E GEOLOGY FILE:

580,000E

6,920,000N

6,915,000N

575,000E

FARO

RV

TSS

WHI FR.

FUBAR

HECK

DEE

LA

DA

HEK

ED

GAL

Rose Creek

67 FLAG (LEE)-1 (7.0,221.3)

67 FLAG (LEE)-2 (10.4,244.2)

69 FLAG (LEE)-1 (3.4,68.6)

JACOLA-1 (2.304.5)

JACOLA-2 (5.2,303.9)

JACOLA-3 (3.7,154.2)

ROCK UNITS

CRETACEOUS

INTRUSIVE ROCKS

Anvil Dyke Suite

- K_{gf} Smoky Quartz - feldspar porphyry
- K_{ge} Hornblende - biotite granite

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- K_{gmm} Mt. Mye phase: biotite-muscovite granite
- K_{go} Orchay phase: biotite-hornblende granite
- K_{gm} Marjorie phase: biotite-hornblende granite with quartz phenocrysts
- K_{gp} Pegmatite to aplite dykes

PENNSYLVANIAN - PERMIAN

Anvil Range Group

- PP_{arb} Epidotized, massive basalt
- PP_{arch} Red, green and beige chert
- PP_{arbch} Green, black and beige chert

DEVONIAN - MISSISSIPPIAN

Earn Group

- DM_{es} Carbonaceous shale, siltstone, chert
- DM_{el} Carbonaceous shale with bioclastic limestone
- DM_{ecg} Chert pebble conglomerate, sandstone
- DM_{eb} Laminated to nodular barite

ORDOVICIAN

Road River Group

- O_{rrs} Carbonaceous, slightly calcareous, locally graptolitic shale

Menzie Creek formation

- O_{mc} Foliated, amygdaloidal basalt, tuff, breccia

CAMBRIAN - ORDOVICIAN

Vangorda formation

- ϵO_{vp} Calcareous, medium grey phyllite (greenschist facies)
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- /// Skarn
- ϵO_{vb} Poorly foliated, dark green, metabasite/amphibolite
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OTHER FEATURES

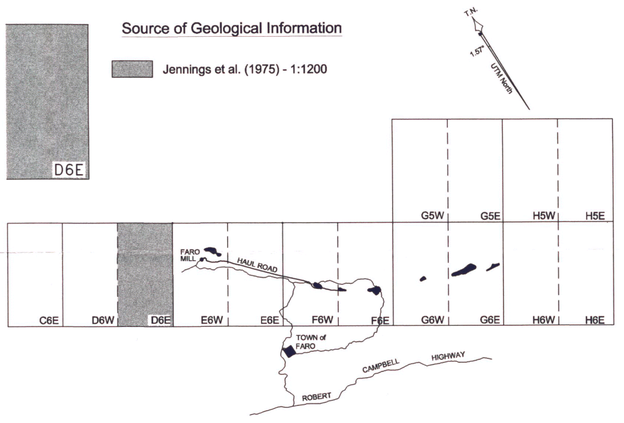
- Geological contact defined, approximate, inferred
- Fault defined, approximate, inferred (ball on downthrown side)
- Lineament
- Thrust fault defined, approximate, inferred (teeth on overthrust panel)
- Limit of mapping
- Outcrop, subcrop, float
- Bedding (S_0) compositional layering (strike,dip) upright, overturned, vertical
- Foliation/Cleavage (strike,dip) phase 1, phase 2, phase 3, unknown
- Fold axis (azimuth/plunge) phase indicated by # of arrowheads (vergence sense looking down plunge)
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  - M mineral
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- 2410 Geological station
- A — A' Section line
- Trench

PHYSICAL FEATURES

- Road
- Trail
- Cut line
- Stream
- Building
- 1418 VG-18 Survey control point

Source of Geological Information

Jennings et al. (1975) - 1:1200



Contour Interval 100 feet

0m 500 1000 1500m

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DRAFT

SHEET D6E
GEOLOGY 093888

Anvil Range MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

SCALE: 1 : 10,000			DATE: 98/08/31
NTS: 105 K/5 - K/6	DRAWN:	DRAWING:	VERSION: DRAFT

File: D6E.DWG	xref: topobase	xref:	
xref: ANVIL_GEOLOGY	xref: claims	xref:	
xref: survey_station	xref:	xref:	

dwg 3

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E6W GEOLOGY FILE:

585,000E

6,915,000N

580,000E

6,910,000N

FARO

WHI FR.

FARO

WHI FR.

FARO

FARO

FARO

ED

ED

ED

BILL

ED

GAL

GAL

TSS

Tailings Impoundment

Tailings

Tailings

Tailings

1974 Dam

Original Dam

Rose Creek Diversion

Rose Creek Diversion

Cross Valley Dam

Intermediate Dam

Water

Water

North Fork Rose Creek

South Fork Rose Creek

RH71-049 RH71-050 RH71-051 RH71-052 RH71-047 RH71-060 RH71-048 RH71-059 RH71-041 RH71-053 RH71-062 RH71-054 RH71-063 RH71-055 RH71-056 RH71-057 RH71-058 RH71-067 RH71-111 RH71-110 RH71-109 RH71-061 RH71-064 RH71-065A RH71-065 RH71-066 RH71-066A RH71-045 RH71-044 RH71-043 RH71-042 RH71-203 RH71-204 RH71-202 RH71-207 RH71-080 RH71-206 RH71-08

79F-01 (23.9-488.0) 79F-02 (19.1-451.4) 79F-03 (12.5-486.8) 89FX-01A 89FX-02 89FX-03 89FX-04 67F-1 67F-2 70F-1 66-C-1 66-D-2 66-D-3 66-D-4 66-50 66-56 65-24 66DS-1 66DS-2 66DS-3 66MS-1 66MS-2 66MS-3 66MS-4 67-35 67-36 67-C 67F-3 67F-4 70DS-01 71-211 71-212 71DS-01 71DS-02 74DS-1 74DS-2 74DS-3 74DS-4 76-DS03 76DS-01 76DS-02 76X-01 76X-03 76X-10 76X-14 76X-15 76X-17 76X-18 76X-19 76X-20 456-75-10 456-75-11 456-75-12 456-75-13 456-75-14 456-75-16 456-75-17 456-75-18 66PR-1 LORH-2 LORH-3

1481 HW 2 1482 1483 1484 1485 1486 PR 6 1417 WHI 1 1418 VG 18 1419 VG 19 1420 WHI 3 1421 RC 4 1463 RC 2

5000 4900 4800 4700 4600 4500 4400 4300 4200 4100 4000 3900 3800 3700 3600 3500 3400 3300 3200 3100 3000 2900 2800 2700 2600 2500 2400 2300 2200 2100 2000 1900

ROCK UNITS

CRETACEOUS

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Anvil Dyke Suite

- K_{gf} Smoky Quartz - feldspar porphyry
- K_{ge} Hornblende - biotite granite

Anvil Plutonic Suite

- K_{gmm} Mt. Mye phase: biotite-muscovite granite
- K_{go} Orchay phase: biotite-hornblende granite
- K_{gm} Marjorie phase: biotite-hornblende granite with quartz phenocrysts
- K_{gp} Pegmatite to aplite dykes

PALEOZOIC

Vangorda Creek Fault Zone-mafic-ultramafic complex

- P_z g-gabbro, di-diabase, sp-serpentinite, h-harzburgite, r-rodingite, b-basalt, e-eclogite

Yukon Tanana Terrane

- P_{zytqs} Micaceous quartzite or schist
- P_{zytqs} Poorly foliated, dark green metabasite/amphibolite
- P_{zytqs} Eclogite

DEVONIAN-PERMIAN

Undifferentiated Earn Group and Anvil Range Group

- Dpb Epidotized, massive basalt
- DP_{rch} Red to maroon, green and beige phyllite chert
- DP_{bch} Green, black and beige phyllite chert
- DP_{bs} Carbonaceous shale/phyllite, siltstone, chert
- DP_{l} Carbonaceous shale with bioclastic limestone
- DP_{cg} Chert pebble conglomerate, sandstone
- DP_{ba} Laminated to nodular barite
- DP_{t} Green (fuffaceous?) slate and tuff

ORDOVICIAN-DEVONIAN

Road River Group

- OD_{bs} Carbonaceous, slightly calcareous, locally graptolitic shale
- OD_{l} Massive limestone, locally crinoidal

Menzie Creek formation

- O_{mc} Foliated, amygdaloidal basalt, tuff, breccia

CAMBRIAN - ORDOVICIAN

Vangorda formation

- ϵO_{vp} Calcareous, medium grey phyllite (greenschist facies)
- ϵO_{vcs} Striped cream and brown calc-silicate (amphibolite facies)
- ϵO_{vpg} Pale green, calcareous phyllite - contact metamorphosed adjacent to metabasites
- ϵO_{vg} Carbonaceous, locally calcareous phyllite/schist
- ϵO_{vl} Marble
- /// Skarn
- ϵO_{vb} Poorly foliated, dark green, metabasite/amphibolite
- ϵO_{vbf} Foliated medium green chloritic phyllite/schist
- ϵO_{vbp} Metamorphosed pyroxenite, interbedded phyllite, calc-silicate, metabasite
- ϵO_{va} Transitional unit from Vangorda formation to Mt. Mye formation

CAMBRIAN

Ore Zones (in Vangorda and Mt. Mye formations)

- ϵ_{ms} Massive sulphides
- ϵ_{qs} Quartzose disseminated sulphides

Alteration associated with mineralization (with mica envelopes)

HADRYNIAN-CAMBRIAN

Mt. Mye formation

- $H\epsilon_{mmp}$ Noncalcareous brownish grey phyllite
- $H\epsilon_{mmpu}$ Upper horizon
- $H\epsilon_{mmpl}$ Lower horizon
- $H\epsilon_{mms}$ Noncalcareous brownish grey schist
- $H\epsilon_{mmsu}$ Upper horizon
- $H\epsilon_{mmsl}$ Lower horizon
- $H\epsilon_{mmcs}$ Striped cream and brown calc-silicate
- /// Skarn
- $H\epsilon_{mmgp}$ Noncalcareous, carbonaceous phyllite
- $H\epsilon_{mmgs}$ Noncalcareous, carbonaceous schist
- $H\epsilon_{mml}$ Grey marble
- /// Skarn
- $H\epsilon_{mmglp}$ Carbonaceous phyllite with dark marble lenses
- $H\epsilon_{mmgls}$ Carbonaceous schist with dark marble lenses
- $H\epsilon_{mmb}$ Poorly foliated, dark green metabasite/amphibolite
- $H\epsilon_{mmbf}$ Well foliated, medium green chloritic phyllite/schist
- $H\epsilon_{mmbp}$ Metamorphosed pyroxenite

OTHER FEATURES

- Geological contact defined, approximate, inferred
- Fault defined, approximate, inferred (ball on downthrown side)
- Lineament
- Thrust fault defined, approximate, inferred (teeth on overthrust panel)
- Inferred stratigraphic boundary between Earn Group and Anvil Range Group
- Outcrop, subcrop, float
- Bedding (S_0) compositional layering (strike,dip) upright, overturned, vertical
- Foliation/Cleavage (strike,dip) phase 1, phase 2, phase 3, unknown
- Fold axis (azimuth/plunge) phase indicated by # of arrowheads (vergence sense looking down plunge)
- Lineation (azimuth/plunge) phase indicated by # of arrowheads (lineation type)
  - S elongation/stretching
  - M mineral
  - P prismatic phenocrysts
  - B boudin axis
  - X intersection of planes
  - C crenulations
- Fold axial surface trace (antiform / synform)
  - phase and plunge direction indicated by # of arrowheads
  - upright, overturned
- Shear - shear zone (azimuth/dip) (sense of movement; slickensides or crystal fibers)
- Fracture/Joint inclined, vertical
- Glacial striae
- Vein
- Mineral isograd (marks on high grade side) (S biotite; calc-silicate phyllite; schist phyllite; B biotite; S sillimanite/fibrolite; St staurolite; A andalusite; G garnet)
- Diamond drill hole
  - location approximate
  - (30, 250) location defined in field (overburden depth, total length in metres)
- Rotary drill hole
  - location approximate
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- 2410 Geological station
- A A' Section line
- Trench

PHYSICAL FEATURES

- Road
- Trail
- Stream
- Cut line
- Building
- 1418 VG-18 Survey control point

Source of Geological Information

Jennings et al. (1975) - 1:1200

E6W

C6E D6W D6E E6W E6E F6W F6E G6W G6E H6W H6E

G5W G5E H5W H5E

FARO MILL HAUL ROAD TOWN of FARO CAMPBELL HIGHWAY ROBERT

Contour Interval 100 feet

0m 500 1000 1500m

VERSION	DATE	REVISION	BY	CHK	APPD
1.2	98.08.31	First draft	HDS		
1.1	98.05.29	Updated as per field notes	HDS		GJ
1.0	97.11.09	Updated as per field notes	HDS	LCP	GJ

DRAFT

SHEET E6W GEOLOGY 003888

Anvil Range MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

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NTS: 105 K/5 - K/6	DRAWN:	DRAWING:	VERSION: DRAFT

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xref: survey_station	xref:	xref:	

Dwg 4

DIAND - YUKON REGION, LIBRARY

E6E GEOLOGY FILE:

6,915,000N 590,000E

FARO

WHI FR.

OK

KO

FARO

QUE

LO

BILL

MO

GAL

BILL

GAL

LA

ROC

MIAMI

JOE

TIE

GAL

GAL

South Fork Rose Creek

RH71-087 RH71-088 RH71-089 RH71-090 RH71-091 RH71-092 RH71-093 RH71-094 RH71-095 RH71-096 RH71-097 RH71-098 RH71-099 RH71-100 RH71-101 RH71-102 RH71-103 RH71-083 RH71-084 RH71-085

66PR-2 68PR1 68PR2 EA81F01 LORH-4 71-209 71-082

6,915,000N 585,000E 6,910,000N 6,905,000E 590,000E

ROCK UNITS

CRETACEOUS

INTRUSIVE ROCKS

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OTHER FEATURES

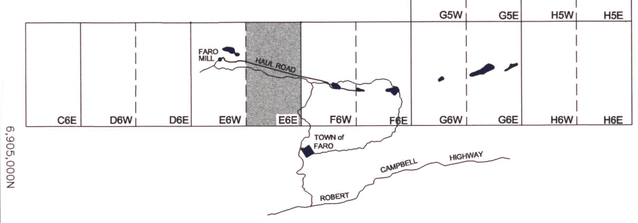
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PHYSICAL FEATURES

- Road
- Trail
- Cut line
- Stream
- Building
- 1418 VG-18 Survey control point

Source of Geological Information

Jennings et al. (1975) - 1:1200



Contour Interval 100 feet

0m 500 1000 1500m

VERSION	DATE	REVISION	BY	CHK	APPD
1.2	98.08.31	First draft	HDS		
1.1	98.05.29	Updated as per field notes	HDS		GJ
1.0	97.11.09	Updated as per field notes	HDS	LCP	GJ

SHEET E6E
GEOLOGY

DRAFT
093B8

Anvil Range MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

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NTS: 105 K/6	DRAWN:	DRAWING:	VERSION: DRAFT

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DIAND - YUKON REGION, LIBRARY

F6W GEOLOGY FILE:

595,000E

6,910,000N

6,910,000N

590,000E

6,905,000N

595,000E

590,000E

6,905,000N

5000

6500

6000

4700

4500

4000

3500

3000

1450 HW/6

1462 HW 9

1407 VG 7

1409 VG-9

1408 VG 8

1490 HW 7KA

1406 VG 6

1422 HW 4KA

1424 HW 6KA

1405 VG 5

1404 VG 4

1423 HW 5KA

1461 HW 1KA

1454 JK-4

TIE

RICH

JACK

SALLY

FIRTH

CHUCK

ELLEMAY

GRUM

CHAMP

FRANK

FRANK

GRUM

TIE

GAL

GRUM

WYNNE

WHI

HIW

CHAMP

SUN

ALICE

WHI FR.

SUN

SUN

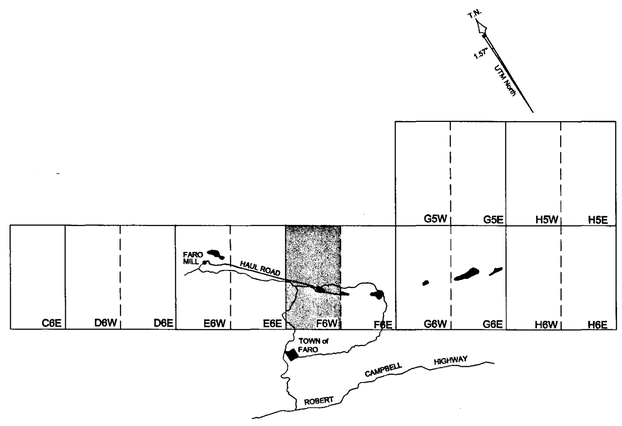
GAL

SUN

WHI FR.

PHYSICAL FEATURES

- Claim line
- Claim boundary
- Road
- Trail
- Cut line
- Stream
- Building
- 1418 VG-18 Survey control point



Contour Interval 100 feet

0m 500 1000 1500m

VERSION	DATE	REVISION	BY	CHK	APPD
1.0	98.08.31	First Draft	HDS		

DRAFT

SHEET F6W
GEOLOGY

093888

Anvil Range
MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

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Dwg (6)

DIAND - YUKON REGION, LIBRARY

F6E GEOLOGY FILE:

600,000E

6,905,000N

595,000E

6,900,000N

HO-HO

DY

RICH

GALE

DY

JACK

ELLEMAY

ROCKY

GALE

MAC

MAC FR.

MAC

TIM

TIM

GALE

GALE

WYNNE

TIM

ALICE

SUN

WHI FR.

SUN

SUN

5000

6000

4400

1500

3700

3400

1445 HW 16

1453 HW 10

1457 3KA

1457A

1458 IN 1

1460 IN 4

1459 JK 3

1458 IN 2

1456 HW 2KA

1455 IN 3

1451 JK 2

1446 UHJ 11

1402 VG 2

1403 VG 3

1401 VG 1

1473 IB 756

1474 DP 2

1500 DT 2

1471 DP

1472 IB 751

1470 DT 1

1499

1498

1497

1496

1488 HW 1

1443 BC 5

1449 BC 3

PHYSICAL FEATURES

- Claim line
- Claim boundary
- Road
- Trail
- Cut line
- Stream
- Building
- 1418 VG-18 Survey control point

TRUE N
1.5°
UTM NORTH

G5W G5E H5W H5E
C6E D6W D6E E6W E6E F6W F6E G6W G6E H6W H6E
FARO MILL
HAUL ROAD
TOWN of FARO
CAMPBELL HIGHWAY
ROBERT

Contour Interval 100 feet

0m 500 1000 1500m

VERSION	DATE	REVISION	BY	CHK	APPD
1.0	98.08.31	First Draft	HDS		

DRAFT

SHEET F6E
GEOLOGY

093888

Anvil Range
MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

SCALE: 1 : 10,000			DATE: 98/08/31
NTS: 105 K/6	DRAWN:	DRAWING:	VERSION: DRAFT

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Dwg(7)

DIAND - YUKON REGION, LIBRARY

G6W GEOLOGY FILE:

605,000E 6,905,000N

6,905,000N

600,000E

6,900,000N

605,000E

6,900,000N

6,895,000N 600,000E

HO-HO

BRAM

DY

HO-HO

DY

GALE

SUN

SWIM

TREAD

SINK

DY

SWIM

SEA

LEA

CAROL

WHI FR.

DY

WHI FR.

WHI

DEA

DEA

DEA

WHI

DEA

DEA

KAY

KAY

Blind Creek

Swim Creek

Swim Lake

SWIM DEPOSIT

1467 BC 16

1468 BC 7

1442

1445

1443 BC 7

1439

14401 1440 ECC 4100

1440

2800

3000

3400

4000

2700

3300

2500

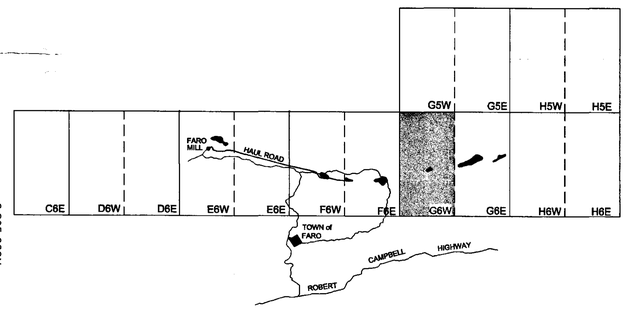
3500

2500

PHYSICAL FEATURES

- Claim line
- Claim boundary
- Road
- Trail
- Cut line
- Stream
- Building
- 1418 VG-18 Survey control point

T.N. 1.5° UTM North



Contour Interval 100 feet

0m 500 1000 1500m

VERSION	DATE	REVISION	BY	CHK	APPD
1.0	98.08.31	First Draft	HDS		

DRAFT

SHEET G6W
GEOLOGY

03888

Anvil Range
MINING CORPORATION

ACCESS MINING CONSULTANTS LTD.

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DWG 8

DIAND - YUKON REGION, LIBRARY

G6E GEOLOGY FILE:

610,000E

6,900,000N

ECHO

Echo Lake

3500

ECHO

TREAD

SEA

Finger Lake

SINK

SEA

SB

BS

3300

SB

3300

SEA

Swim Lake

1430
SL 12

SEA

SB

LEA

SEA

PEA

PEA

POD

DY

LEA

BP

PEA

DP

2600

41

3700

3300

DEA

WHI

KAY

KAY

PEA

POD

1428

3000

2400

605,000E

6,895,000N

6,900,000N

610,000E

605,000E

6,895,000N

PHYSICAL FEATURES

Claim line	Claim boundary
Road	Trail
Cut line	Stream
Building	1418 VG-18 Survey control point

T.N.
1.5°
UTM North

G5W G5E H5W H5E

C6E D6W D6E E6W E6E F6W F6E G6W G6E H6W H6E

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TOWN of FARO
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ROBERT

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VERSION	DATE	REVISION	BY	CHK	APPD

DRAFT

093888

SHEET G6E
GEOLOGY

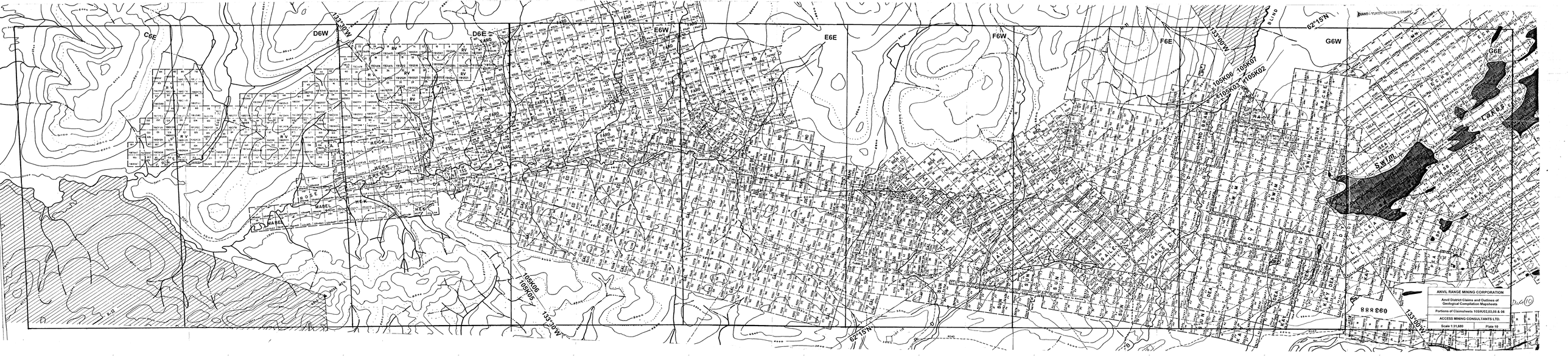
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xref: topobase.dwg	xref: utm.dwg	xref:	
xref: survey_station	xref:	xref:	

DIAND - YUKON REGION, LIBRARY


C6E
D6W
D6E
E6W
E6E
F6W
F6E
G6W
G6E
133°30'W
62°15'N
105K06
105K07
105K02
105K03
105K11
105K14
105K15
105K16
105K12
105K13
105K10
105K09
105K08
LAKES
SWIM
MABEL
HEK
FARO
SUN
GALE
DOLLY
KAT
IDA
RV
RC
KD
TRAIL
ROAD
ANVIL RANGE MINING CORPORATION
Anvil District Claims and Outlines of Geological Compilation Mapsheets
Portions of Claimsheets 105K/02,03,06 & 06
ACCESS MINING CONSULTANTS LTD.
Scale 1:31,680
Plate 10
098888