521748

RECOMMENDATIONS ON THE GOLDWAY PEAK PROPERTY
McCONNELL CREEK MAP-AREA (94D/9)
OMINECA MINING DIVISION
BRITISH COLUMBIA

REPORT TO

MR. DANIEL ROSS SUTHERLAND
781 UNDERHILL DRIVE,
DELTA, B.C.,
V4M 2V2

FROM

THOMAS A. RICHARDS, PhD
BOX 4186,
SMITHERS, B.C,

APRIL 2, 1990

TABLE OF CONTENTS

GOLDWAY PEAK PROPERTY

LIST OF FIGURES

LIST OF APPENDICIES

GOLDWAY PEAK PROPERTY

INTRODUCTION

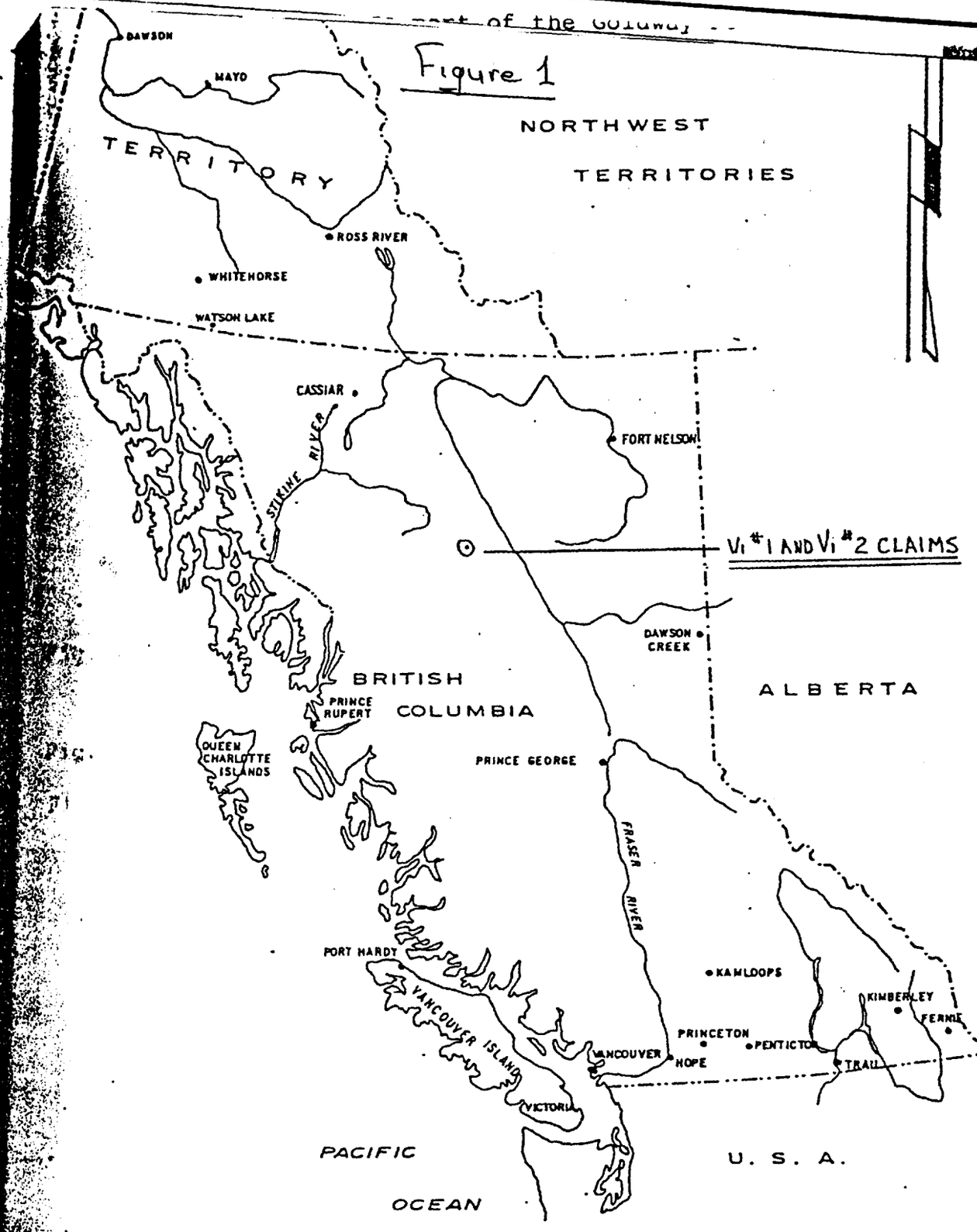
I have been commissioned by Mr. Daniel Sutherland, to write a report on the Mineral Claims on Goldway Peak. I visited the property on August 11th, 1989, and mapped the Goldway Peak area for the Geolocial Survey of Canada in July, of 1975, when responsible for the geological mapping of the McConnel Creek west-half map area (94D), I have read the geological reports on the property, including the most recent work authoured by Mr. G. von Rosen. This later report was a qualifying report on the property for Super Twin Resources and had been accepted by the Superintendent of Brokers for a prospectus from Super Twins Resources Ltd., effective date, December, 30, 1988. All the data for this report has been drawn from previous work other than limited observations on the "A" vein and its possible extensions.

From examination ef the ground and available data, I am of the opinion that the Goldway property qualifies as a viable, bona fide gold property that will require further exploration. No drill holes have been collared on the claims. Although work has been done on the property during the 80's, the most important work done on the claims appears to have been done during the 1947 season and is represented by the report to the Ministry of Mines by Dr. W.H. White. This work described veins discovered in 1945 as a series of veins, lettered "A" to "E", two of which carried very significant gold values. Vein "A" is traceable for in excess of 420 feet (155 meters) with gold values to in excoss of 3 ounces/ton with an average width of 2 feet. Vein "C" is traceable for 145 feet (50 meters), with gold values to 1 ounce/ton and width of 18 inches. Silver values are approximately similar to gold. In a report not available to the author, assay results by D.D. Campbell in 1947 corroborated the results of White. Subsequent work confirmed the investigations of White and Campbell, and did not significantly further add to the understanding of the property.

The veins are associated with shears, and occur as *en echelon* quartz-filled gashes within submarine greenstone volcanics and associated intrusions. They strike northwesterly to west north-westerly and dip steeply in both easterly and westerly directions. All geologic investigations on these veins are refered to in the 1947 report by W.H. White, and included in the geolgic sketch of appendix ii. It appears that no subsequent geologic mapping has been undertaken.

Certain of the earlier work (von Rosen, 1988) recommends preparation for mining, as in the enhancement of the road, set up of camp, shop and mill facilities. These conclusions are very missleading. The Goldway property is a property of merit, it is not a mine, nor is it near a

Figure 1



LOCATION MAP

VANCOUVER BRITIS

Vi #1 AND Vi #2 CLAIMS

LARAMIE MINING CORP

SCALE 1:12,672,0

0 200 K

NTS. | DATE. | F

1" = 250 MILES

Figure 2.

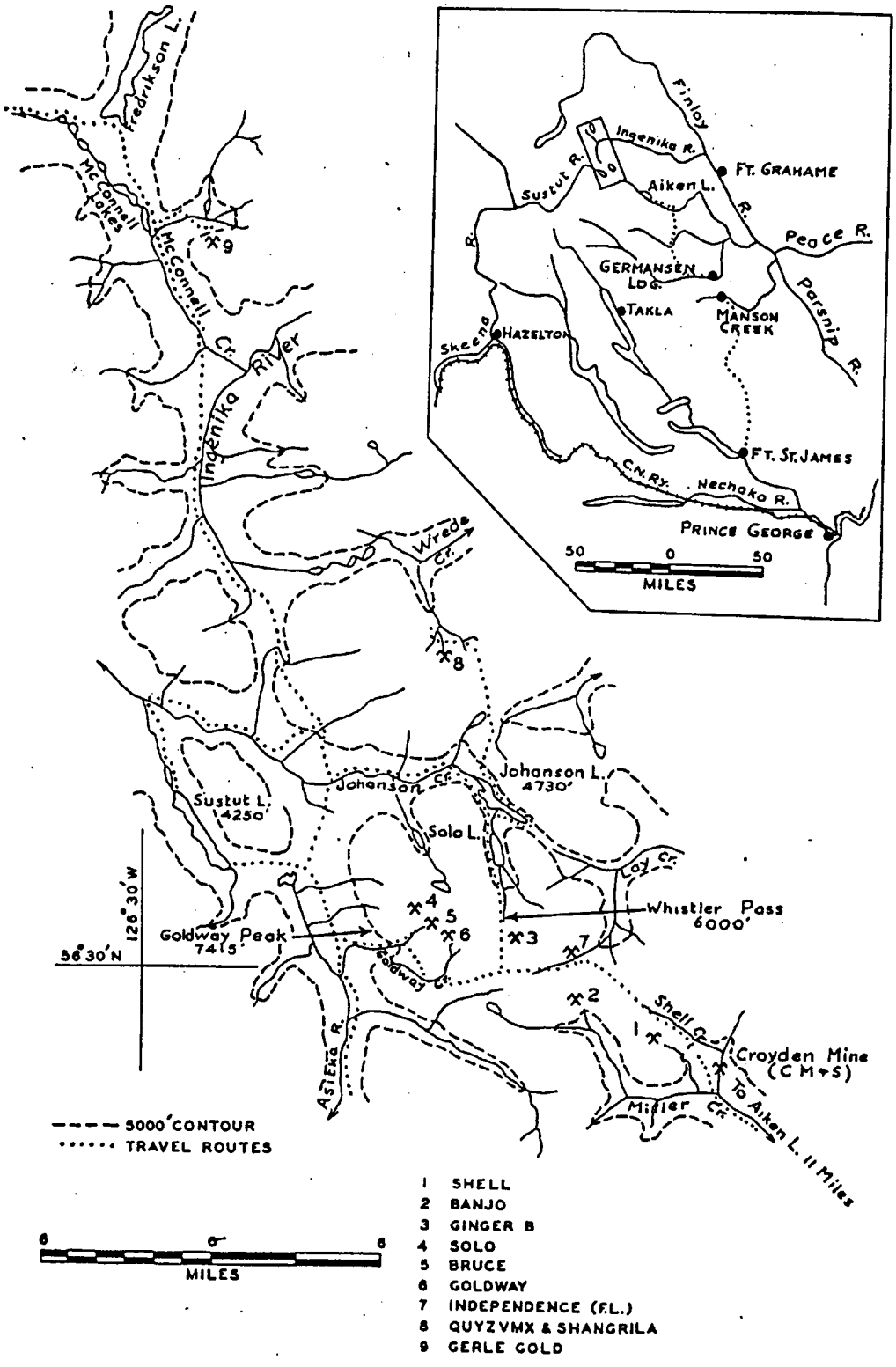


Fig. 10. Sustut-Aiken-McConnell Lake area, showing location of properties. Inset map shows location of area.

mine. It has very encouraging values in the veins, and values that have been duplicated by independent workers from independent labs. Its location 16 kilometers south of the Cheni mine road and south of the Cheni toll-gate are favourable features. Any serious future potential will not be excessivly hindered by transportation logistics. It should be treated as a prospect, and dealt with in successive, logical stages.

LOCATION and ACCESS

The claims are located in the Omineca Mining Division, in the McConnel Creek map area (94D/9E), and latitude 56°32' north and 126°15' west (figures 1 and 2). Access to the claims is by road from Prince George through McKenzie northward to Johanson Lake along the Cheni Mine Road, a distance of same 480 kilometers. The property lies 10 air-kilometers southwest of the Johanson Lake air-strip. A 16 kilometer tote road to the property, leaves the Cheni road 16 kilometers west of Johanson Lake. This road is at present not 4x4 useable, but may be with all-terrane vehicle. This will require investigation. Access by helicopter will be contingent upon the location of a helicopter. A helicopter is occasionally located at the Johanson Lake air strip. In recent years helicopters have been located at either the Sturdee strip, 80 kilometers north, or at Osilinka Lake, 80 kilometers to the south. Location of air access will dictate certain of the costs.

PHYSIOGRAPHY

The claims lie within the Omineca Mountains, west of Goldway Peak (elevation 2260 meters). This mountain system is featured by steep and rugged mountains and ridges isolated from one-another by broad, flat vallies. Valley bottoms are about 1500 meters elevation, with tree-line at 1700 meters. Most of the area is traversable excepting certain north-facing cirque walls. The exploration work season ranges from late June at the earlest to late September.

CLAIM OWNERSHIP

The claims are held by:

Mr. Daniel Ross Sutherland,
781 Underhill Drive, Delta B.C.
V4M 2V2
Phone: (604) 943 3830

Included is a sketch map of the claims and copies of the claim forms located on September 1, 1989 by the author for Mr. Sutherland.

Figure 3

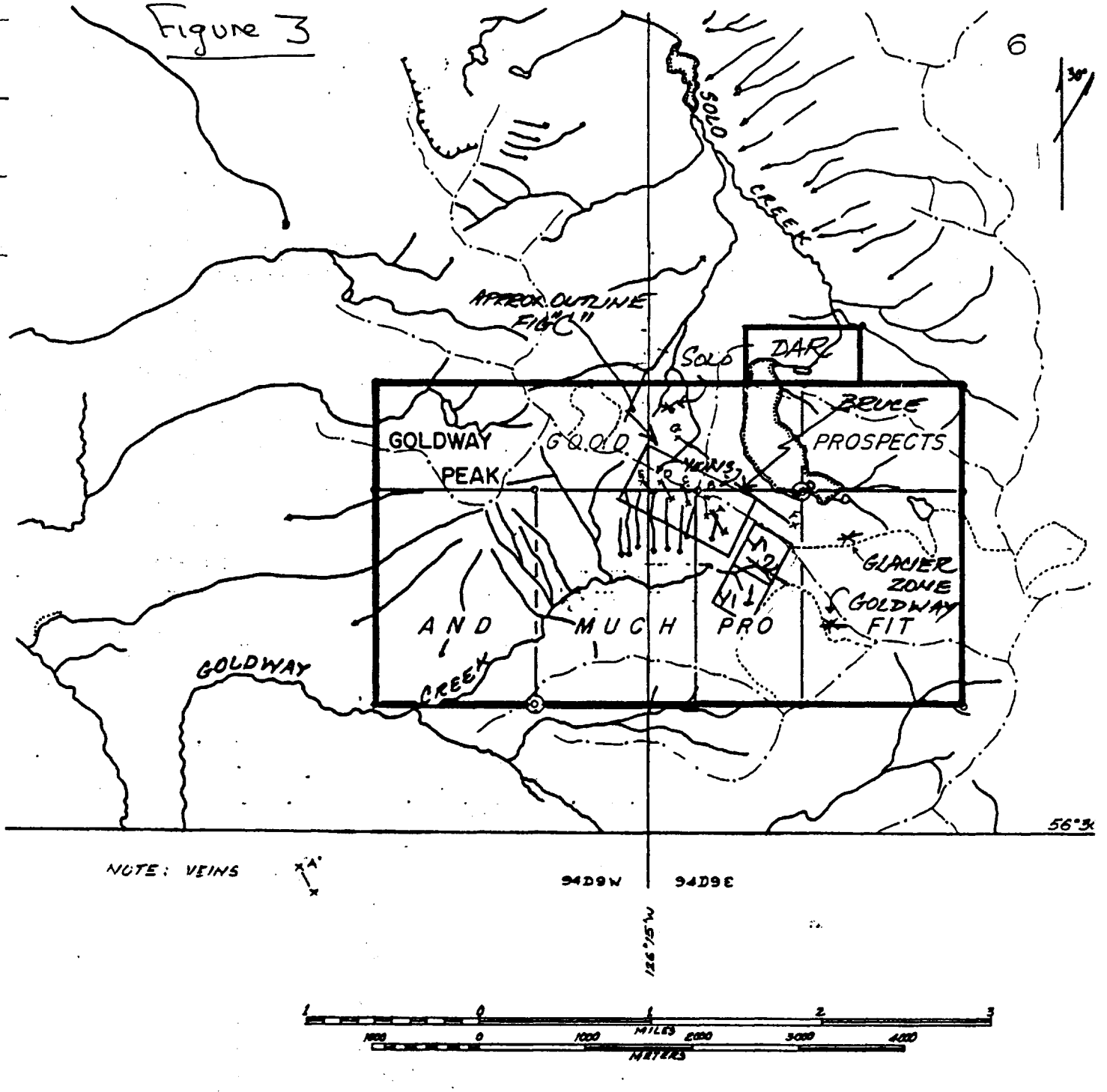


FIGURE B

LOCATION MAP

"GOLD" MINERAL CLAIM GROUP

GOOD:PROSPECTS:AND:MUCH:PROFIT
DAR:MINERAL CLAIMS
GOLDWAY PEAK AREA
OMINECA MINING DIVISION
94D9E/W

To accompany report by: Gerhard von Rosen, PEng
REV SEP01 88
REV NOV15 88

FEAREX ENGINEERING missio

REGIONAL GEOLOGICAL SETTING

The property lies near the eastern margin of the Quesnel Belt, underlain by basic and intermediate marine volcanics, sediments and intrusions of Upper Triassic and Lower Jurassic age. These are greenish submarine flows, breccias, tuffs and intrusions associated with the Takla Volcanics. The entire assemblage is regionally metamorphosed in the greenschist facies with the pervasive development of epidote, chlorite, actinolite and hornblende. East of the property, and east of Goldway peak, the Asitka valley is occupied the the Ingenika-Finlay Fault, the northern extension of the Pinchi Fault Zone. The area has been mapped by the Geological Survey in 1945 (Lord) and 1975 (Richards, et al).

Although no major gold production has occurred, there are numerous known showings of interest in the area (figure 2). It has not been seriously investigated since the late 40's as it is a remote location. The Cheni Mine road has altered this feature.

PROPERTY GEOLOGY

The only geological mapping that has been done on the property is that done by White in 1947. All subsequent work refers to and copies his map.

White describes the property as being underlain by andesite and basalt flows intercalated with beds of breccia, agglomerate, and finely stratified tuffaceous sediments intruded by a composite stock of quartz diorite and granodiorite. The beds are folded, with a fold axis of north 20 degrees west. Beds to the west dip 50 degrees westward, those to the east dip at 30 degrees. Within the property are shear zones where the volcanics have been converted to schist and phyllite that strike at west 20 degrees north. The quartz veins, in part, parallel these structures, and likely there will be some genetic relationship between the two. Veins occur both in the intrusive and in the volcanics.

MINERALIZATION

Mineralization occurs in quartz veins associated with mainly northwest trending shear zones. The vein assemblage appears to be of the mesothermal, or, deep-seated type, as indicated by their association with shear zones and by the associated epidote-chlorite-actinolite-hornblende silicate mineral assemblages. These deep-seated veins, like most precious metal systems, are notorious for their unpredictable precious metal values. They may, however, be very persistent along strike and dip. All the veins appear to be low sulphide type, with quartz associated with minor galena, chalcopyrite and possibly tetrahedrite. Limonite staining is

associated with the veins and the shears. Copies of the assay values and sketches of the veins taken from the summay report of von Rosen (1988) are included with this report (appendix I).

One vein in particular consistently shows values that are very highly significant in gold, with a single sample assaying to 5.41 ounces/ton (sample 1176-D.D.C.) This is the "A" vein whose location is shown in figure 3 and appendicies II, III and IV. This vein has been sampled by White (1947), Campbell (1947), Phendler (1984), Pawliuk, (1985) and von Rosen (1986 and 1987). Each of these authors, except the latter, obtained samples that assayed the greater than 1 ounce/ton gold and include numerous values greater than 0.1 ounce\ton gold. The values quoted in the table in appendix I (von Rosen, 1988) for the "A" vein reflect a significant consistency for gold in veins of this type. This is the most important known vein on the property, and will be the one that will merit the most immediate attention. The vein strikes northwesterly, and can be seen as a major set of *en echelon* lenses heading northerly from the headwaters of Goldway Creek. Its southerly extension is covered by overburden. Von Rosen (1988) noted that trenching south of the last known exposure of the vein, to 10-12 feet depth, uncovered 3-4 feet width of vein material that assayed to 0.14 oz/ton. The present author noted quartz float on strike with the "A" vein for several hundred feet south of the last visible exposure. This float train eventually gets lost under a thick cover of glacial morraine. It is very likely that this vein persists along strike for greater than the presently uncovered 420 feet (155 meters)

Vein "B" has been extensively sampled by White and Campbell, and the results are uniformly low (figure in appendix II).

From the available work, the "C" vein carries values of significance. This has only been sampled by Campbell (1947), as recored in the von Rosen 1988 report. White mentions this vein as traceable for 145 feet, at a fairly constant width of 18 inches (figure in appendix II).

Vein "D" is traceable for up to 700 feet with an average width of 6 feet. Although von Rosen (1988) states that this vein has undergone similar rigorous sampling (page 19), he states further (page 23), that he has made only short inspection on these other veins and "basis his detail knowledge about these on the report by the previous workers". White appears to have been the only other previous worker. White obtained gold values of 0.26 and 0.15 ounces/ton from five samples, and appear to represent the only sampling done on these veins (appendicies I and II).

Vein "E" is represented by three samples from White (1947), none of which is significant.

Other quartz veins on the property are noted in the von Rosen report. Vein "F", east of the A-E series showed very low gold and silver. Vein "G" north of the A-E series gave weakly anomalous precious metal values. A stock-work system, the Glacial Zone (appendix V), has been extensively sampled by von Rosen, and very few values of significance were obtained.

From the descriptions given in the various assessment reports, there appears the strong probability of the presence of other quartz veins on the property, particularly associated with the schistose shear zones noted by White (1947).

COMMENTS ON THE 1980'S PROGRAMS

Drilling was attempted in1985 (Pawliuk, 1985). A Winkie diamond drill program was prevented by an inaccessible water supply. Pawliuk (1985) suggested a drill program utilizing a wireline drill and a relay pump system to provide water. His report indicates water available 914 meters away and 274 meters below drill collar locations.

Game (1984) indicated that VLF-EM survey did not pick up the trace of the quartz veins. Thought may be given to other geophysical methods.

In 1982, von Rosen completed a soil geochemical survey in Goldway creek. This survey did little to outline the trace of any gold geochemical anomaly, but did serve to show that gold is traceable in the system through soils and may be of use in a more thoughtful program.

CONCLUSIONS

It is concluded that the Goldway property contains a gold system, or systems that are of potential economic significance. The veins contain numerous values of ore grade, in widths at or cluse to mineable dimensions. The hosting shear zones appear to have strike lengths that are sufficient to develop tonnage. At present, there are no drill holes nor any proven tonnage on the property.

RECOMMENDATIONS

Futher explortation of the property should take at least two stages. It is the opinion of this author that most of the work done in the 80's has not added greatly to the understanding of the property, it is suggested that the property be treated as it was left in 1947.

PHASE I

The first stage of work should be directed to the verification of the results of the previous workers. It should involve:

-attempting to survey in the "A" vein and approximate the locations of the earlier samples.

-sampling of the other veins on the property, particularly the ones that have given anomalous values in gold,

-location of all the veins on an appropiate scale map derived from airphotos. A good map will be required in order to allow for correlation of drill-hole data with surface data. The present data base is at the level of sketches.

-Investigation of the condition of the tote road to assess the cost of potential up-grading for 4x4 vehicles, or for the potential of drill moves by a "cat". The appraisal of the ground for the set-up of drill sites by a "cat" would be of great assistance in reducing helicopter costs, and allow for the presence of a "cat", preferably with a back-hoe, for trenching in certain localities.

-The location of a camp requires investigation. As the "A" vein is presently the most attractive, a camp location proximal to this site is needed. Investigation of other areas on the property may be done by fly camp locations.

-Prospecting of the claimed area, and any area in proximity to the claims is required. The tracing of the veins along strike and investigation of the shear zones outlined by White is suggested. It is felt that a prospector should be part of the early phases of exploration.

-The claimed ground appears to meet a minimum required to cover the ground adequately. If a second phase program is to be undertaken, further staking would be useful to protect the present showings. The showings are near the boundaries of the claims.

-Contour soil lines in selected areas to test for the presence of precious metal.

Estimates of the cost of this program will range from $30,000 to $50,000. Cost estimates are outlined below.

PHASE II

Phase two program will be contingent upon the results of phase I. As the "A" vein has never been drilled, and it contains significant values of gold over its entire length, a drill program should be outlined to test this structure. The scope of the program will depend upon the evaluation ef how to effectively drill the vein, as its location is not conducive to simple set-ups.

Cost of drilling is to be investigated, but all-up values of $75/foot, including drilling, drill moves, camp costs, mob and demob, assay, report, supervision and contingencies are not out of line for remote areas as is the Goldway and Toodoggone areas. A 1500 foot program may be in the range of $112,500. Such a program would be a short hole program designed to intersect the vein in as many locations as is feasible.

PHASE I BUDGET ESTIMATE

Budget estimate based upon seven days/man spent on the property,and two day travel from Smithers to the property and two return. Estimates of helicopter time dependent upon source. Access to the property may be made by air from Smithers.

Man-time		
Prospector, 7 days @ 250	1750	
Geologist, 7 days /@400	2800	
Sampler, 7 days @ 150	1050	
Sampler, 7 days, @ 150	1050	6650
Employee Expenses, UIC, etc		1330
Travel Time/ Smithers Return		4800
Helicopter, 5 Hrs, @750/hour		3750
Truck, 12 days @ 55/day	660	
Quad, 7 days @ 40	280	
Fuel	500	1440
Meals, 54 man-day/25/day		1350
Camp Costs		1350
Supplies, expendibles		1350
Geochemistry, 500 samples @ 15/per		7500
Map, air photos		6000
Field Preparation		1500
Travel, Vancouver-Smithers		800
Insurance, Office, Expiditing,		1000
Management		3500
Report		1500
	Total Estimate	$43,720

STATEMENT OF QUALIFICATIONS

I, Thomas A. Richards, reside in Smithers, British Columbia, at 3847 second ave., Box 4186.

I have a BSc in Honours Geology from the University of British Columbia in 1965,

I have a PhD in Geology from the University of British Columbia in 1971,

I am a Fellow of the Geological Association of Canada,

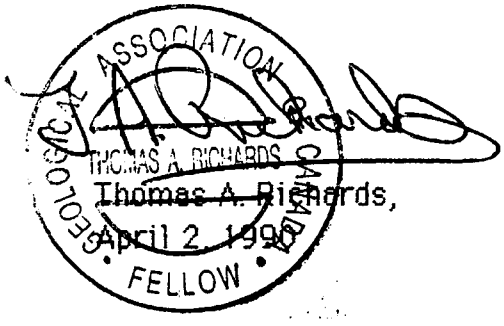
I visited the property on Goldway Peak on August 11, 1989, and worked on and around the property area in 1975,

I based the conclusions of this report upon my personal visit to the area and upon reports enclosed in the references of this report,

I have no interest in the property,

I have no intention of gaining any interest in the property or of any interest in any company formed to explore and develop this property other than professional renumerations for fees and expenses relating to this and any further investigation of the property.

Yours Truly



Thomas A. Richards,
April 2, 1990

REFERENCES

Game, R.E., 1984, Report of Assessment Work (Geological and Geophysical) of the Good (4155), Much (4149), Pro (4150), And (4148), Fit (4151), Prospects (4147) and Dar (4154) Claims, Goldway Peak, Johanson Lake, Assessement Report: 13,145

Pawliuk, D.J., 1985, Report on Assessement Work on the Goldway Peak Property, Assessment Report 14,105

Phendler, R.W., 1983, Report on Assessement Work, on Vi 1 and Vi 2, Johanson Lake Area, Assessement Report 11,636

Phendler, R.W., 1984, Report of Assessement Work, on Vi 1 and Vi 2, Johanson Lake Area, Assessement Report.

von Rosen, G., 1982, Assessment Report, Geochemical, Gold Content Soil Survey, Goldway Peak Area, Assessement Report 10,809

von Rosen, G., 1986, Assessment Geological Report on Mapping, Sampling and Bulk Sampling Program on the Gold Group Mineral Claims, Goldway Peak, Johanson Lake, Assessment Report

von Rosen, G., 1988, Revised Recommendation Report on Access Road Enhancement, Bulk Sampling, Further Exploration on the Gold Group Mineral Claims, Goldway Peak-Johanson Lake Area, Qualifying Report for Prospectus for Super Twin Resources.

White, W.H., 1947, Report by the British Columbia Ministry of Mines, pp 100-109

APPENDIX I

Appendix I include the tables of assays from the von Rosen Qualifying Report to Super Twin Resouces. Of significance in these assays are the values obtained from the "A" Vein by the various investigators, and the consistently high values in this vein.

ASSAYS

A complete listing of pertinent assays relative to the various mineral areas on the Goldway property are displayed in the following tables.
The following abbreviations were used in these tables:

W.H.W., refers to White, 1947.
D.D.C., refers to Campbell, 1947.
PHEND , refers to Phendler, 1984.
PAWLI , refers to Pawliuk, 1985.
GEAVR , refers to von Rosen, 1986, 1987.

Most of the assay locations are shown on figures C, D, & E.
The remainder of the assays are given as "character assays" only. To show their detailed locations would be not be possible as some of this data is not at hand, for some, and would be too inaccurate to plot on large-scale maps, for the remainder.
The term "channel" refers to sample methods of high accuracy.
The term "chip" refers to sampling methods of reasonable accuracy.
The term "grab" refers to samples taken to provide an estimation of what the rock may contain, hence they are of lower accuracy.
The term "bulk" refers to larger-volume samples, which are esteemed to be of much greater value (than even 'channel' samples) in suggesting the mineral content of the rock taken for assay.

GOLD ASSAYS: VEIN A

SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
1	CHANNEL	W.H.W.	19	48	.08	.50
2	CHANNEL	W.H.W.	17	43	1.30	1.30
3	CHANNEL	W.H.W.	32	81	.06	NIL
4	CHANNEL	W.H.W.	2	56	.01	.20
5	CHANNEL	W.H.W.	16	41	.32	6.10
6	CHANNEL	W.H.W.	18	46	.99	1.00
7	CHANNEL	W.H.W.	35	89	NIL	NIL
8	CHANNEL	W.H.W.	72	183	.06	NIL
9	CHANNEL	W.H.W.	21	53	.61	.30
1176	CHIP	D.D.C	13	34	1.00	NA
1172	CHIP	D.D.C	24	61	2.08	NA
1175	CHIP	D.D.C	24	61	3.34	NA
1177	CHIP	D.D.C	BULK	BULK	3.57	NA
1173	CHIP	D.D.C	8	23	5.41	NA
1178	CHIP	D.D.C	48	122	.02	NA
1171	CHIP	D.D.C	12	31	.31	NA
1180	CHIP	D.D.C	30	76	.52	NA
1174	CHIP	D.D.C	54	137	.41	NA
1179	CHIP	D.D.C	36	91	.01	NA
1184	CHIP	D.D.C	15	38	NA	NA
1182	CHIP	D.D.C	15	38	.09	NA

ASSAYS: VEIN A continued:

ASSAYS: VEIN A						continued:
1181	CHIP	D.D.C	21	53	1.94	NA
1183	CHIP	D.D.C	42	107	.47	NA
1196	CHIP	D.D.C	54	137	NA	NA
1186	CHIP	D.D.C	36	91	.57	NA
1188	CHIP	D.D.C	12	31	.18	NA
1189	CHIP	D.D.C	15	37	.36	NA
1190	CHIP	D.D.C	36	91	.82	NA
1187	CHIP	D.D.C	12	31	.39	NA
1185	CHIP	D.D.C	24	61	2.76	NA
1217	CHIP	D.D.C	24	61	.04	NA
1216	CHIP	D.D.C	30	76	.07	NA
1215	CHIP	D.D.C	40	101	.37	NA
1214	CHIP	D.D.C	24	61	.30	NA
1213	CHIP	D.D.C	46	116	.07	NA
1212	CHIP	D.D.C	43	110	.17	NA
1211	CHIP	D.D.C	46	116	.16	NA
1194	CHIP	D.D.C	24	61	.05	NA
1221	CHIP	D.D.C	24	61	.61	NA
1226	CHIP	D.D.C	15	38	.65	NA
1219	CHIP	D.D.C	12	31	.08	NA
1218	CHIP	D.D.C	13	34	.08	NA
1225	CHIP	D.D.C	24	61	.35	NA
1224	CHIP	D.D.C	24	61	.24	NA
1223	CHIP	D.D.C	22	55	.56	NA
1222	CHIP	D.D.C	18	46	.19	NA
1228	CHIP	D.D.C	36	91	TR	NA
1229	CHIP	D.D.C	36	91	TR	NA
1192	CHIP	D.D.C	12	31	.01	NA
1191	CHIP	D.D.C	24	61	.01	NA
1193	CHIP	D.D.C	48	122	.02	NA
100	CHIP	PHEND	9	24	.44	NA
101	CHIP	PHEND	12	30	.01	NA
102	CHIP	PHEND	24	61	.00	NA
102	CHIP	PHEND	39	98	.73	NA
103	CHIP	PHEND	6	14	.02	NA
103	CHIP	PHEND	39	98	.10	NA
104	CHIP	PHEND	9	23	.55	NA
105	CHIP	PHEND	8	20	1.61	NA
106	CHIP	PHEND	20	51	.58	NA
107	CHIP	PHEND	11	27	2.16	NA
108	CHIP	PHEND	16	40	.08	NA
109	CHIP	PHEND	30	76	.05	NA
110	CHIP	PHEND	15	37	.01	NA
111	CHIP	PHEND	12	30	.03	NA
112	CHIP	PHEND	32	81	.09	NA
113	CHIP	PHEND	30	76	.70	NA
7485	CHIP	PAWLI	21	54	.16	NA
7486	CHIP	PAWLI	24	61	1.08	NA
ASSAYS: VEIN A						continued:

ASSAYS: VEIN A						continued:
	7487	CHIP	PAWLI	13	33	.12	NA
	7488	CHIP	PAWLI	31	78	.05	NA
	7489	CHIP	PAWLI	18	46	.01	NA
	7490	CHIP	PAWLI	13	34	.04	NA
	AV 1	GRAB	GEAVR	-	-	.04	.27
	AV 2	GRAB	GEAVR	-	-	.02	.21
	AV 3	GRAB	GEAVR	-	-	.04	1.09
	AV 4	GRAB	GEAVR	24	61	.42	.59

ASSAYS: VEIN B

SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
10	CHANNEL	W.H.W.	72	183	NIL	NIL
11	CHANNEL	W.H.W.	60	152	.07	.2
12	CHANNEL	W.H.W.	15	38	.06	.2
13	CHIP	W.H.W.	60	152	NIL	NIL
14	CHANNEL	W.H.W.	56	142	NIL	NIL
1167	CHIP	W.H.W.	20	52	TR	NA
1165	CHIP	W.H.W.	48	122	.07	NA
1166	CHIP	W.H.W.	48	122	.005	NA
1168	CHIP	W.H.W.	54	137	TR	NA
1170	CHIP	D.D.C	60	152	TR	NA
1169	CHIP	D.D.C	54	137	NIL	NA
1142	CHIP	D.D.C	36	91	TR	NA
1243	CHIP	D.D.C	43	110	.61	NA
1245	CHIP	D.D.C	02	003	.035	NA
1230	CHIP	D.D.C	66	168	TR	NA
1246	CHIP	D.D.C	24	61	.005	NA
1240	CHIP	D.D.C	24	61	.005	NA
1249	CHIP	D.D.C	.6	15	NIL	NA
1247	CHIP	D.D.C	60	152	TR	NA
1244	CHIP	D.D.C	80	204	.005	NA
1259	CHIP	D.D.C	72	183	TR	NA
1255	CHIP	D.D.C	60	152	TR	NA
1253	CHIP	D.D.C	54	137	TR	NA
1256	CHIP	D.D.C	60	152	TR	NA
1260	CHIP	D.D.C	12	183	TR	NA
1261	CHIP	D.D.C	36	91	.005	NA
1262	CHIP	D.D.C	24	61	.02	NA
1263	CHIP	D.D.C	12	30	.02	NA
1258	CHIP	D.D.C	60	152	TR	NA

ASSAYS: VEIN B continued:

ASSAYS: VEIN B continued:						
1257	CHIP	D.D.C	12	183	TR	NA
1254	CHIP	D.D.C	24	61	TR	NA
1252	CHIP	D.D.C	36	91	TR	NA
1251	CHIP	D.D.C	36	91	TR	NA
1267	CHIP	D.D.C	12	30	.005	NA
1271	CHIP	D.D.C	24	61	.015	NA
1270	CHIP	D.D.C	29	73	TR	NA
1272	CHIP	D.D.C	48	122	.01	NA
1269	CHIP	D.D.C	40	101	TR	NA
1268	CHIP	D.D.C	52	131	TR	NA
1266	CHIP	D.D.C	48	122	.01	NA
1265	CHIP	D.D.C	132	335	.005	NA
1264	CHIP	D.D.C	18	46	.005	NA
1275	CHIP	D.D.C	12	183	.005	NA
1273	CHIP	D.D.C	76	193	.07	NA
1274	CHIP	D.D.C	52	131	.015	NA
1276	CHIP	D.D.C	48	122	.1	NA
1277	CHIP	D.D.C	36	91	.08	NA
1278	CHIP	D.D.C	48	122	.07	NA
1279	CHIP	D.D.C	12	183	.2	NA

ASSAYS: VEIN C						
SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
1203	CHIP	D.D.C.	36	91	.13	NA
1292	CHIP	D.D.C	18	46	.54	NA
1291	CHIP	D.D.C	16	40	1.04	NA
1290	CHIP	D.D.C	12	30	.04	NA
1269	CHIP	D.D.C	24	61	.96	NA
1288	CHIP	D.D.C	30	76	.84	NA
1287	CHIP	D.D.C	26	67	.28	NA
1286	CHIP	D.D.C	36	91	.06	NA
1285	CHIP	D.D.C	13	34	.01	NA

ASSAYS: VEIN D

SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
15	CHANNEL	W.H.W	64	163	.26	.30
16	CHANNEL	W.H.W	54	137	-	-
17	CHANNEL	W.H.W	26	66	.15	.20
18	CHANNEL	W.H.W.	54	137	-	.10
19	CHANNEL	W.H.W.	40	102	-	-

ASSAYS: VEIN E

SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
20	CHANNEL	W.H.W.	26	66	TR	NIL
21	CHANNEL	W.H.W.	26	66	TR	NIL
22	CHANNEL	W.H.W.	26	66	.05	.10

ASSAYS: VEIN F

SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
7472	CHIP	D.J.P.	18	46	.07	.02
7473	CHIP	D.J.P.	18	46	.39	2.08
7474	CHIP	D.J.P.	47	120	.01	.16
7475	CHIP	D.J.P.	79	200	.00	.15
7476	CHIP	D.J.P.	35	89	.00	.07
7477	CHIP	D.J.P.	11	27	.00	.08
7478	CHIP	D.J.P.	21	54	.00	.01
7479	CHIP	D.J.P.	13	32	.12	.18
7480	CHIP	D.J.P.	91	230	.00	.06
7481	CHIP	D.J.P.	110	280	.00	.04
B1	GRAB	GEAVR	20	50	.00	.02
B2	GRAB	GEAVR	59	150	.00	.02
B3	GRAB	GEAVR	39	100	.01	.02
B4	GRAB	GEAVR	20	50	.00	.02
B5	GRAB	GEAVR	39	100	.00	.02
B6	GRAB	GEAVR	39	100	.00	.02
B7	GRAB	GEAVR	39	100	.00	.02

ASSAYS: VEIN F continued:

ASSAYS: VEIN F continued:						
B8	GRAB	GEAVR	39	100	.00	.02
B9	GRAB	GEAVR	39	100	.00	.02
B10	GRAB	GEAVR	20	50	.00	.02
B11	GRAB	GEAVR	20	50	.01	.02
B12	GRAB	GEAVR	20	50	.00	.02
B13	GRAB	GEAVR	39	100	.00	.02
B14	GRAB	GEAVR	4	10	.00	.07
B15	GRAB	GEAVR	197	500	.00	.07
B16	GRAB	GEAVR	197	500	.00	.03
B17	GRAB	GEAVR	197	500	.00	.04
B18	GRAB	GEAVR	39	100	.00	.02
B19	GRAB	GEAVR	20	50	.00	.02
B20	GRAB	GEAVR	39	100	.00	.02
B21	GRAB	GEAVR	197	500	.00	.02
B22	GRAB	GEAVR	12	30	.00	.02
B23	GRAB	GEAVR	118	300	.01	.02
B24	GRAB	GEAVR	12	30	.00	.03
B24B	GRAB	GEAVR	-	-	.03	.10

ASSAYS: VEIN G						
SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
B26	GRAB	GEAVR	157	400	.002	.02
B27	GRAB	GEAVR	197	500	.018	.10
B28	GRAB	GEAVR	118	300	.046	.12
B29	GRAB	GEAVR	79	200	.008	.03
B30	GRAB	GEAVR	118	300	.088	.29

ASSAYS: VEIN X						
SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
G-1	BULK	GEAVR	24	61	.076	.13
HEADS	(1.725st)	SANDO	24	61	.097	.04

ASSAYS: GLACIER ZONE

SAMPLE NO	METHOD	TAKEN BY	WIDTH inches	WIDTH centim	GOLD oz/t	SILVER oz/t
B series 31	'CHIP'	GEAVR	276	700	.01	.02*
32	'CHIP'	GEAVR	197	500	.034	.20*
33	'CHIP'	GEAVR	354	900	.008	.08*
34	'CHIP'	GEAVR	157	400	.028	.02*
35	'CHIP'	GEAVR	315	800	.004	.02*
36	'CHIP'	GEAVR	315	800	.004	.02*
37	'CHIP'	GEAVR	591	1500	.012	.02*
38	'CHIP'	GEAVR	79	200	.062	.02*
39	'CHIP'	GEAVR	118	300	.012	.02*
40	'CHIP'	GEAVR	197	500	.004	.02*
41	'CHIP'	GEAVR	197	500	.002	.02*
42	'CHIP'	GEAVR	236	600	.002	.02*
43	'CHIP'	GEAVR	276	700	.002	.02*
44	'CHIP'	GEAVR	157	400	.004	.02*
45	'CHIP'	GEAVR	157	400	.004	.02*
46	'CHIP'	GEAVR	315	800	.004	.02*
47	'CHIP'	GEAVR	394	1000	.004	.04*
48	'CHIP'	GEAVR	394	1000	.004	.05*
49	'CHIP'	GEAVR	394	1000	.004	.08*
50	'CHIP'	GEAVR	354	900	.012	.10*
51	'CHIP'	GEAVR	394	1000	.004	.18*
52	'CHIP'	GEAVR	591	1500	.004	.02*
53	'CHIP'	GEAVR	118	300	.002	.02*
54	'CHIP'	GEAVR	236	600	.002	.02*
55	'CHIP'	GEAVR	197	500	.006	.05*
57	'CHIP'	GEAVR	118	300	.004	.10*
58	'CHIP'	GEAVR	394	1000	.004	.10*
59	'CHIP'	GEAVR	394	1000	.002	.05*
60	'CHIP'	GEAVR	197	500	.002	.10*
61	'CHIP'	GEAVR	157	400	.002	.05*
62	'CHIP'	GEAVR	276	700	.002	.03*
63	'CHIP'	GEAVR	394	1000	.002	.05*
64	'CHIP'	GEAVR	394	1000	.002	.02*
65	'CHIP'	GEAVR	197	500	.002	.03*
6	'CHIP'	GEAVR	315	800	.002	.06*
67	'CHIP'	GEAVR	197	500	.016	.08*
8	'CHIP'	GEAVR	591	1500	.02	.08*
69	'CHIP'	GEAVR	197	500	.002	.07*
70	'CHIP'	GEAVR	591	1500	.002	.02*
71	'CHIP'	GEAVR	276	700	.002	.02*
72	'CHIP'	GEAVR	236	600	.002	.02*
73	'CHIP'	GEAVR	276	700	.006	.05*
74	'CHIP'	GEAVR	472	1200	.002	.08*
75	'CHIP'	GEAVR	472	1200	.002	.03*
76	'CHIP'	GEAVR	315	800	.002	.03*

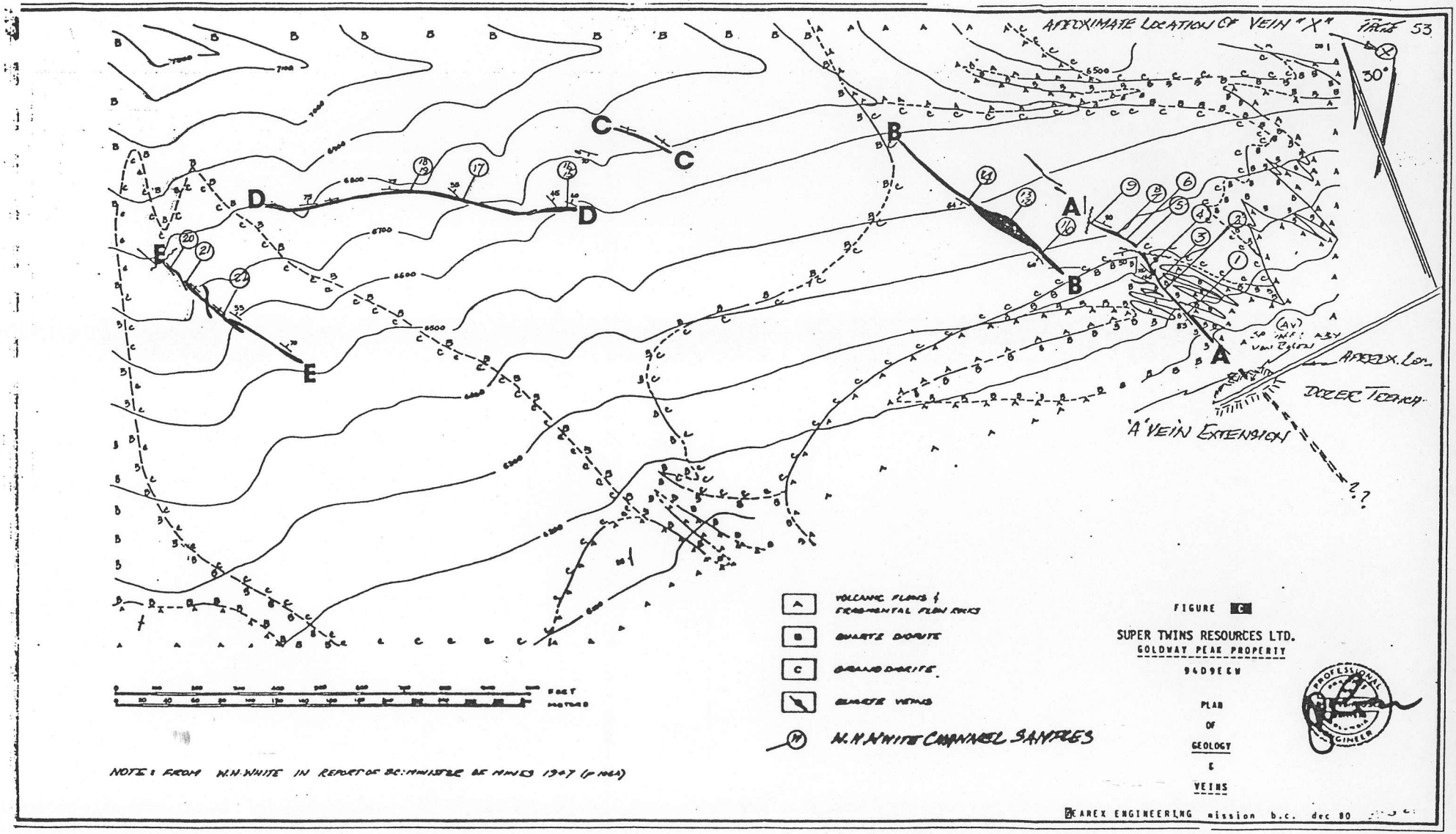
ASSAYS: GLACIER ZONE continued:

ASSAYS: GLACIER ZONE						continued:
	77	'CHIP'	GEAVR	591	1500	.002	.02*
	78	'CHIP'	GEAVR	984	2500	.002	.02*
	79	'CHIP'	GEAVR	787	2000	.002	.05*
	80	'CHIP'	GEAVR	787	2000	.002	.05*
	81	'CHIP'	GEAVR	591	1500	.002	1.10*
	82	'CHIP'	GEAVR	197	500	.002	.20*
	83	'CHIP'	GEAVR	394	1000	.036	.31*
D series	01	'CHIP'	GEAVR	79	200	.002	.17*
	2	'CHIP'	GEAVR	118	300	.008	.18*
	3	'CHIP'	GEAVR	157	400	.002	.05*
	4	'CHIP'	GEAVR	236	600	.002	.02*
	5	'CHIP'	GEAVR	118	300	.072	.05*
	6	'CHIP'	GEAVR	394	1000	.002	.02*
	7	'CHIP'	GEAVR	472	1200	.006	.02*
	8	'CHIP'	GEAVR	591	1500	.002	.08*
	9	'CHIP'	GEAVR	630	1600	.002	.02*
	10	'CHIP'	GEAVR	630	1600	.002	.02*
	11	'CHIP'	GEAVR	472	1200	.002	.02*
	12	'CHIP'	GEAVR	591	1500	.002	.02*
	13	'CHIP'	GEAVR	472	1200	.002	.02*
	14	'CHIP'	GEAVR	787	2000	.002	.02*
	15	'CHIP'	GEAVR	236	600	.002	.05*
	16	'CHIP'	GEAVR	157	400	.002	.05*
	17	'CHIP'	GEAVR	591	1500	.018	.20*
	18	'CHIP'	GEAVR	669	1700	.004	.05*
	19	'CHIP'	GEAVR	394	1000	.002	.04*
	20	'CHIP'	GEAVR	472	1200	.002	.04*
	21	'CHIP'	GEAVR	787	2000	.002	.15*
	22	'CHIP'	GEAVR	236	600	.002	.07*
	23	'CHIP'	GEAVR	315	800	.002	.10*
	24	'CHIP'	GEAVR	236	600	.008	.15*
	25	'CHIP'	GEAVR	551	1400	.008	.16*
	26	'CHIP'	GEAVR	472	1200	.03	.36*
	27	'CHIP'	GEAVR	512	1300	.026	.07*
	28	'CHIP'	GEAVR	236	600	.002	.02*
	29	'CHIP'	GEAVR	394	1000	.002	.08*
	30	'CHIP'	GEAVR	315	800	.044	.05*
	31	'CHIP'	GEAVR	433	1100	.002	.02*
	32	'CHIP'	GEAVR	354	900	.002	.10*
	33	'CHIP'	GEAVR	236	600	.05	.22*
	34	'CHIP'	GEAVR	276	700	.002	.08*
	35	'CHIP'	GEAVR	433	1100	.008	.02*
	36	'CHIP'	GEAVR	315	800	.002	.14*
	37	'CHIP'	GEAVR	394	1000	.002	.09*
	38	'CHIP'	GEAVR	394	1000	.002	.03*
	39	'CHIP'	GEAVR	394	1000	.004	.10*
	40	'CHIP'	GEAVR	551	1400	.002	.05*

d

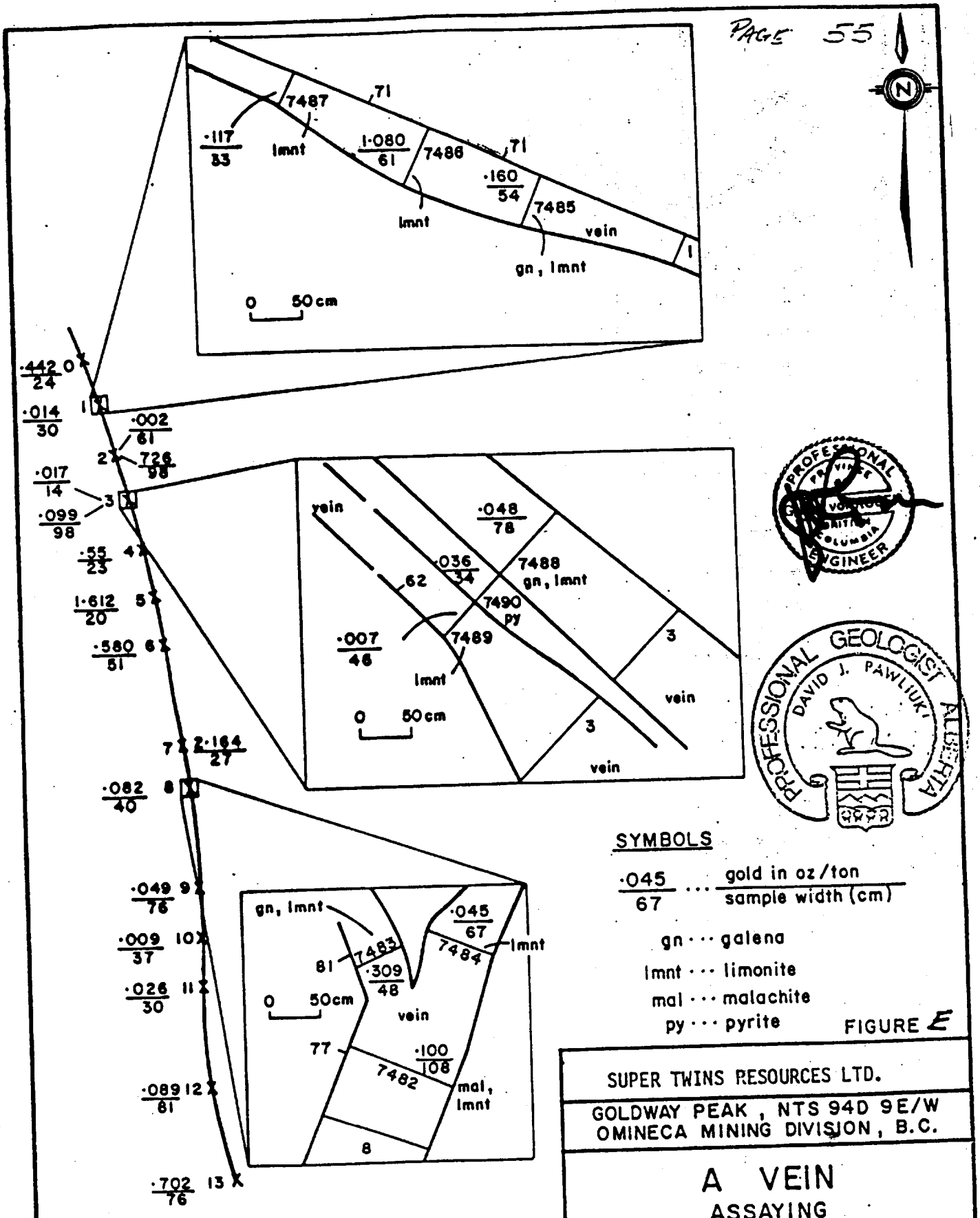
APPENDIX II

Figure C in the von Rosen Qualifying Report to Super Twin Resources. This diagram is a sketch of the A to E vein systems that define the original discovery area found in 1945, and described by White, 1947. The diagram is a copy of the White map, and as far as this author can tell, is the only geological map of the claimed area. Dr. W.H. White was a highly respected economic geologist in his time, and this map will likely have much validity. Enclosed with this report is a copy of the White report on the Sustut-McConnel area, in which is included a copy of his map, along with the original assay values.


APPROXIMATE LOCATION OF VEIN "X"
PAGE 53
30°
A
B
C
D
E
6500
6600
6700
6800
7000
7100
'A' VEIN EXTENSION
??
APPROX. LOC.
DOGEE TRENCH
VOLCANIC FLOWS & FRAGMENTAL FLOW ROCKS
QUARTZ DIORITE
GRANODIORITE
QUARTZ VEINS
M.N. WHITE CHANNEL SAMPLES
FEET
METRES
NOTE: FROM M.N. WHITE IN REPORT OF BC: MINISTRY OF MINES 1947 (p 1464)
FIGURE C
SUPER TWINS RESOURCES LTD.
GOLDWAY PEAK PROPERTY
94D9EGW
PLAN
OF
GEOLOGY
&
VEINS
AREX ENGINEERING mission b.c. dec 80

APPENDIX III

This figure is from the Phendler Assessment Report of 1984. It shows portions of the "A" vein although the precise location on the vein are not clear. The values are consistent with the White values of 1947.



A Vein: plan view with expanded views of 1985 sample sites and assay results.
After Phendler (Nov. 20, 1984)

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA

PROFESSIONAL GEOLOGIST DAVID J. PAWLIUK ALBERTA

SYMBOLS

·045 / 67 ... gold in oz/ton / sample width (cm)

gn ··· galena
lmnt ··· limonite
mal ··· malachite
py ··· pyrite

FIGURE E

SUPER TWINS RESOURCES LTD.

GOLDWAY PEAK, NTS 94D 9E/W
OMINECA MINING DIVISION, B.C.

A VEIN
ASSAYING

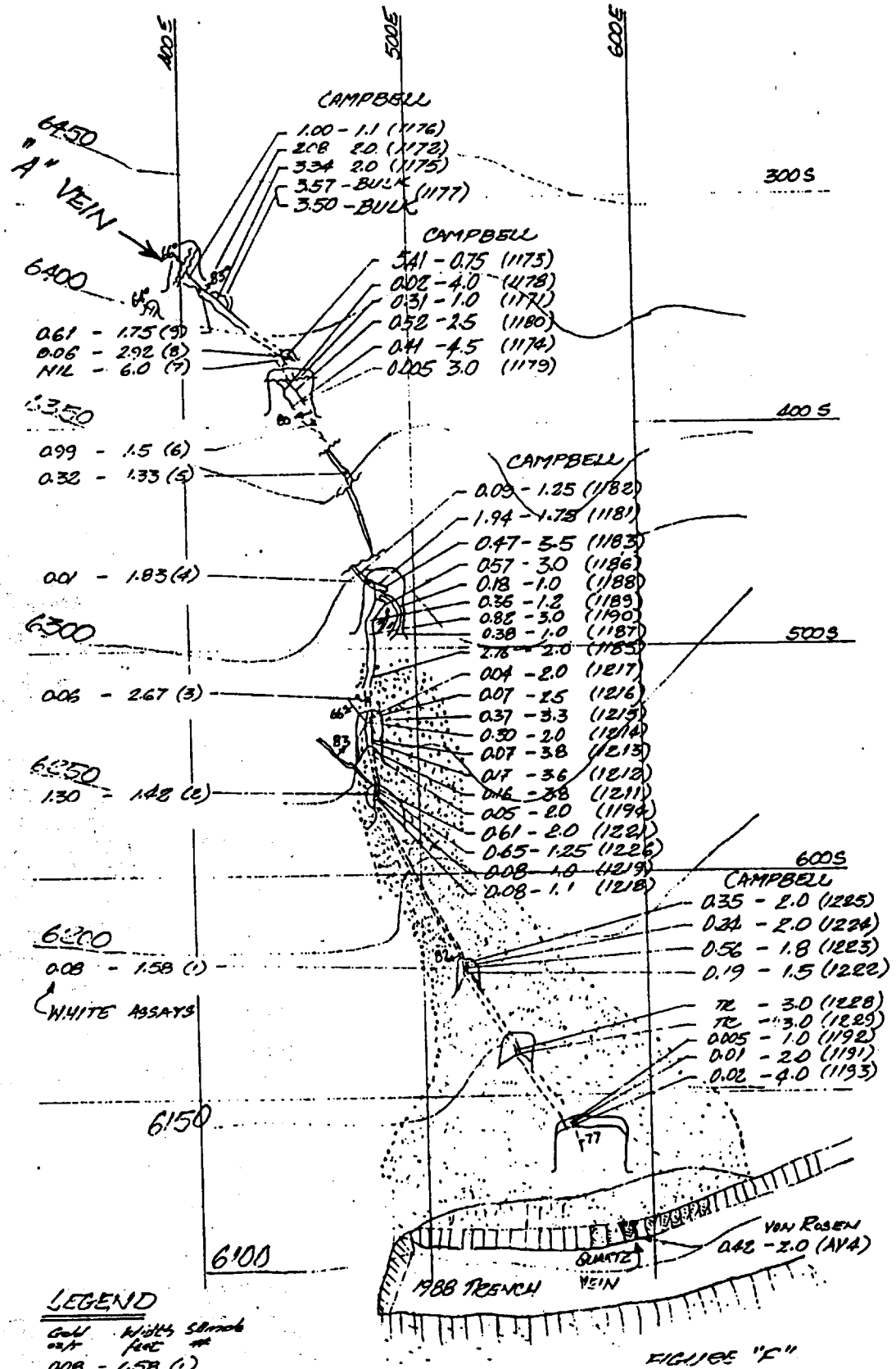
0 50 100 FEET

To accompany a report by D. J. Pawliuk, P. Geol.
Dated: October, 1985

STRATA GEOLOGICAL LTD.

APPENDIX IV

This figure is from the von Rosen qualifying report to Super Twin Resouces. It is a sketch map from a 1947 report by D.D. Campbell and includes the White values of 1947. The actual source for this figure is not known to the author at present, but if the report is a Dolmage Campbell report, it would be useful to track down, as work by this individual is reputed to be of quality. This figure shows the best values obtained on the "A" Vein.



LEGEND

Gold oz/t | Width feet | Sample #

0.08 - 1.58 (1)

6200 —— CONTOURS IN FEET

300S ---- GRID IN FEET

∩ TRENCH

Auth: DD CAMPBELL, Sept 1947
WH WHITE, AP 1947

FIGURE "F"

GOLDWAY PEAK
TOURMON LAKE
BADGE

"A" VEIN DETAIL

GEOTEX ENGINEERING
NOV 1988

PAGE 56

APPENDIX V

This figure is from the von Rosen report of 1986, and shows the detailed sampling of the stockwork area outlined in figure 3 in the report. The values of the samples are shown in the latter part of appendix I

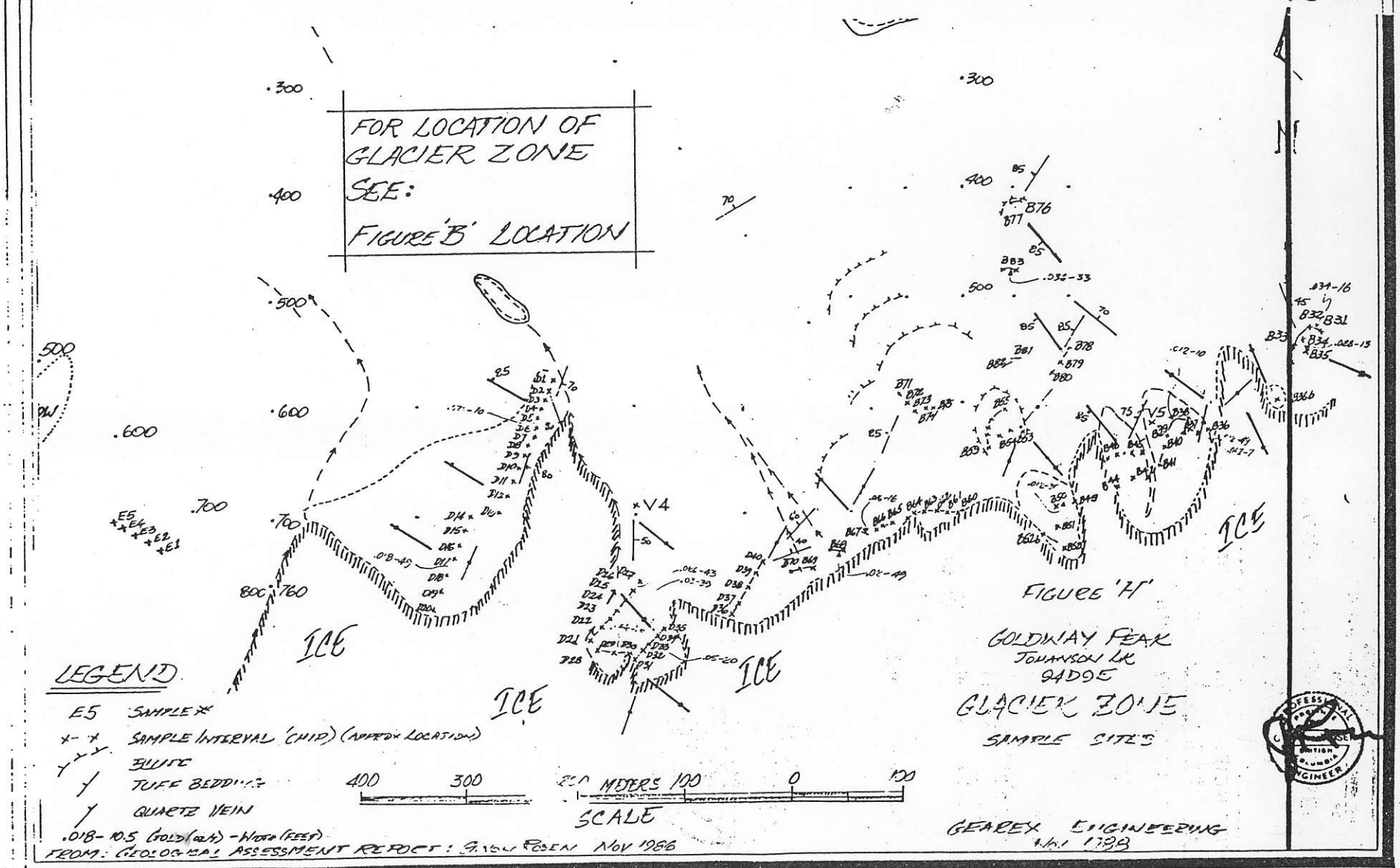
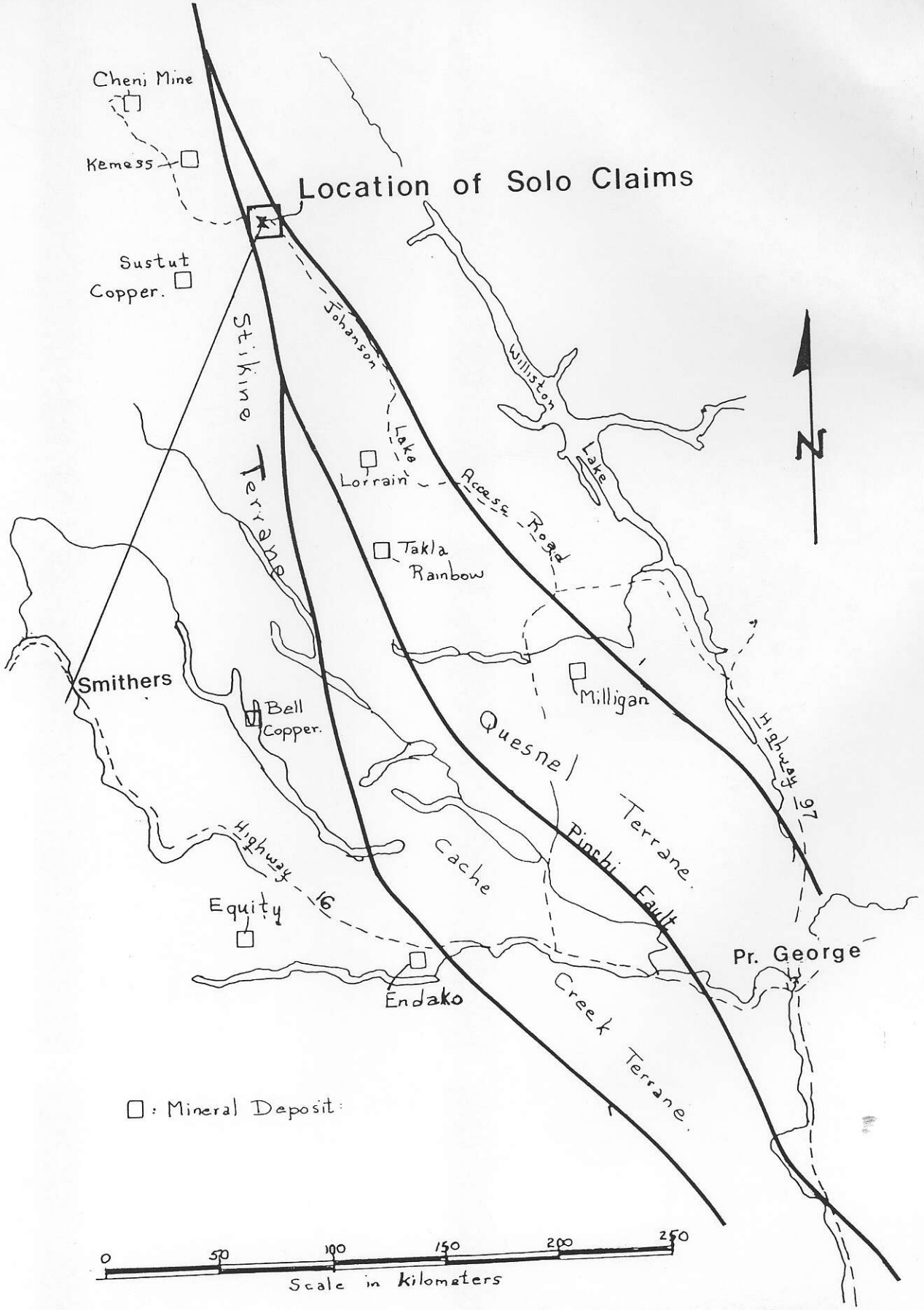

FOR LOCATION OF GLACIER ZONE SEE: FIGURE 'B' LOCATION
ICE
ICE
ICE
ICE
V4
V5
N
FIGUEE 'H'
GOLDWAY PEAK
JOHANSON LK
94D9E
GLACIER ZONE
SAMPLE SITES
LEGEND
E5 SAMPLE #
x- x SAMPLE INTERVAL (CHIP) (APPROX LOCATION)
BLUFF
TUFF BEDDING
QUARTZ VEIN
.018- 10.5 (GOLD (OZ/T) - WIDTH (FEET)
FROM: GEOLOGICAL ASSESSMENT REPORT: GLEN ROSEN NOV 1986
400 300 200 METERS 100 0 100
SCALE
GEOREX ENGINEERING
LTD.

Fig: 2. Location & Access



Goldway Property

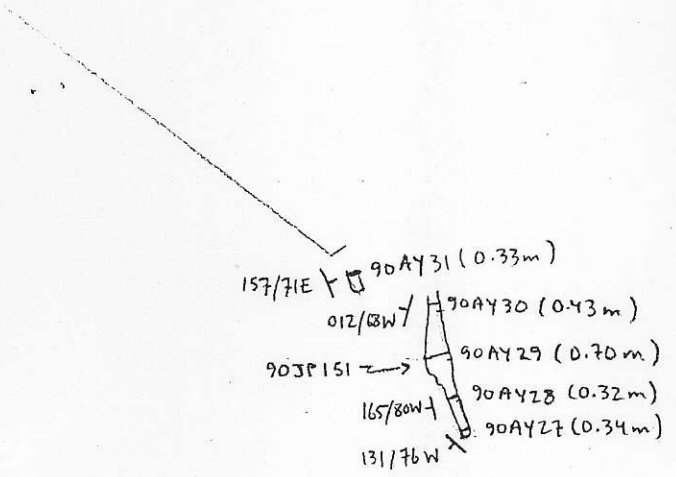
'A' Vein

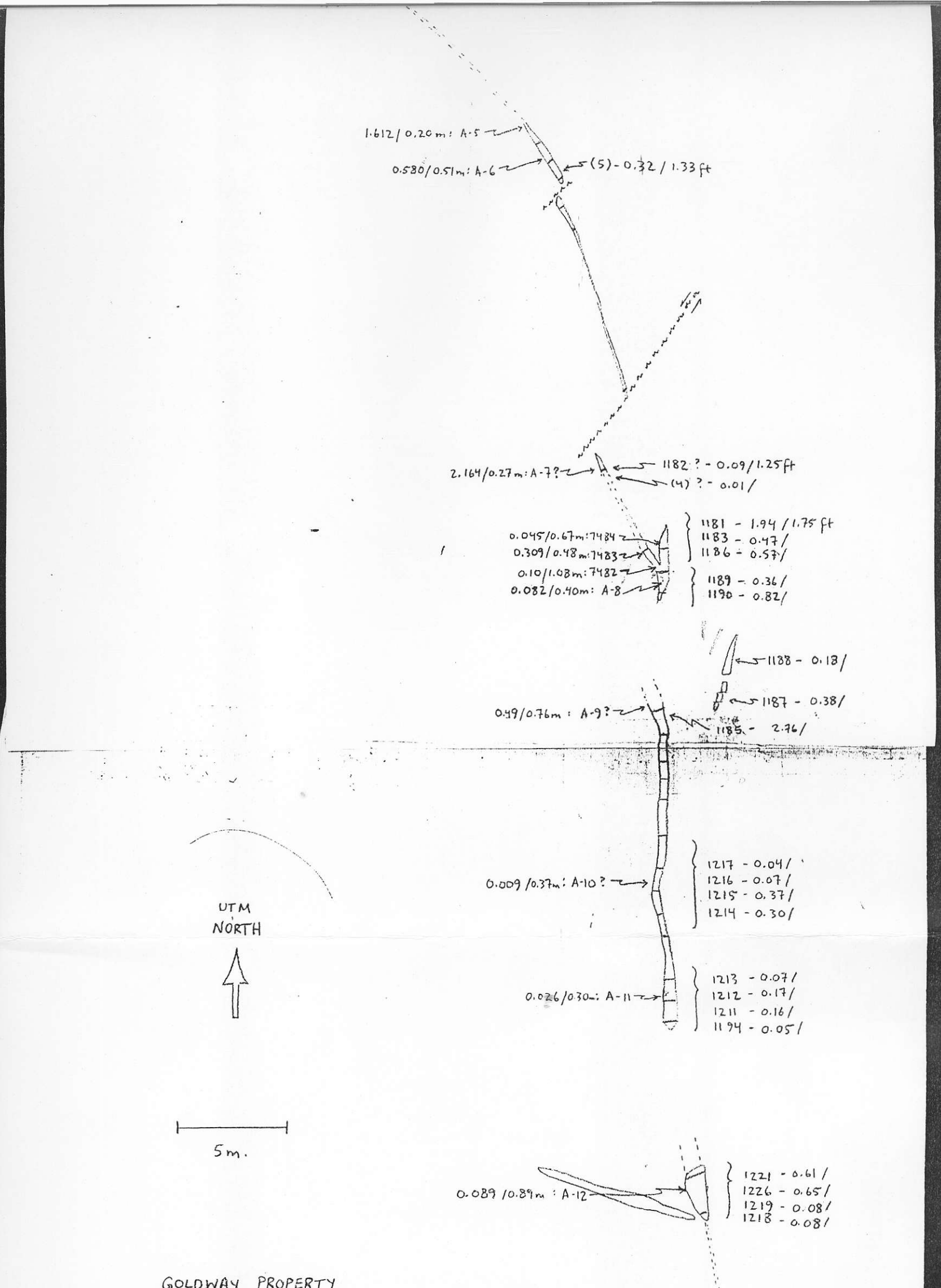
Map of Vein + Sample Sites

Sept / 90

Slope corrected Plan View.

Draft copy.





GOLDWAY PROPERTY

'A' VEIN

Location of Old Sample Sites, Plan View.

'A' series (including 7000 series) from
Von Rosen, Oct/85 report.
described on left side of vein.

'1100' series and .() series from
Campbell and Gearex in
Gearex Engineering, Nov/88 Report.
described on right side of Vein

LEGEND

0.037/0.52m : Au in oz/ton / sample width

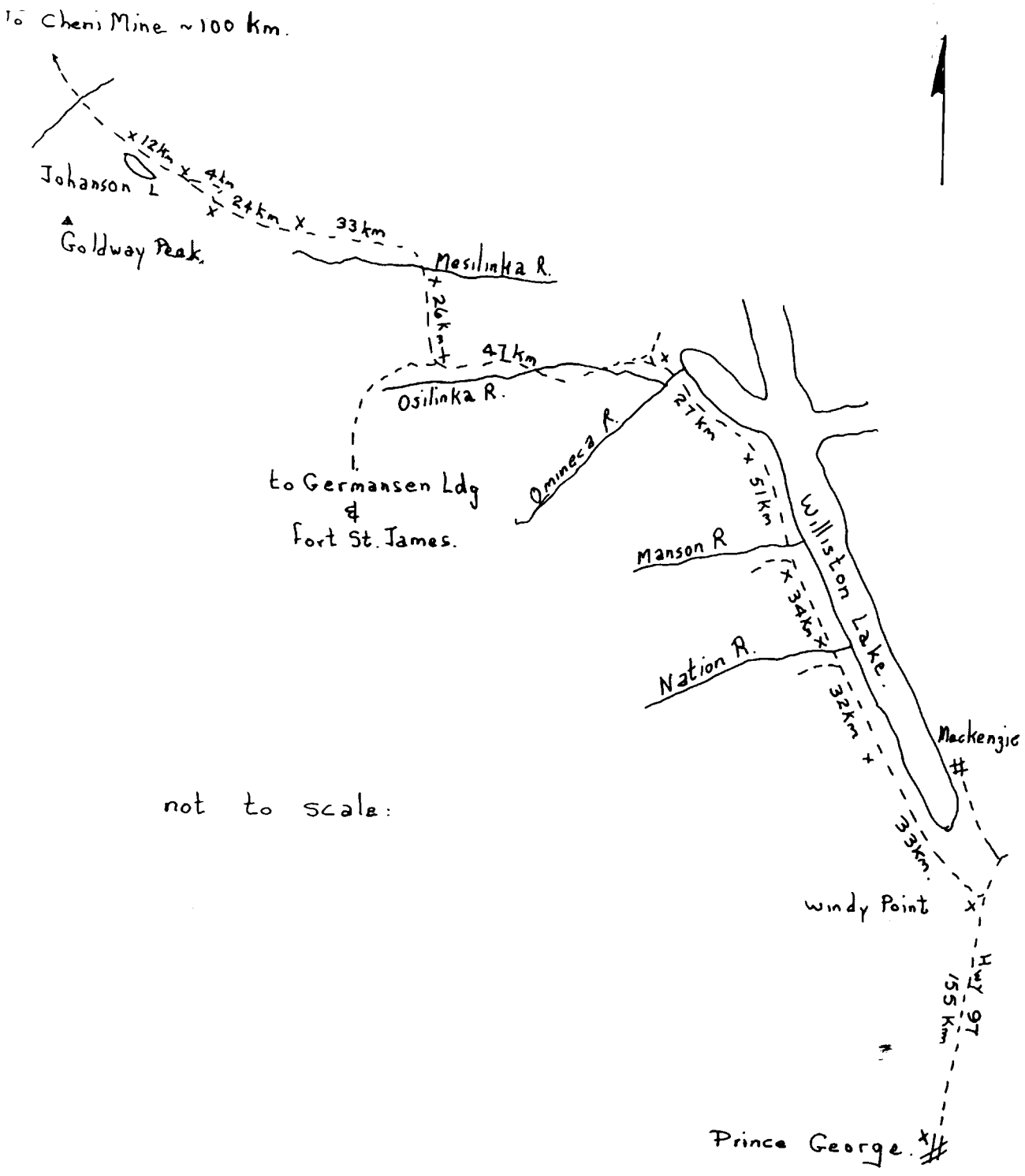
Exposed vein

Assumed trace of unexposed vein

Fault

1990 Sample Locations on Vein.

Figure 3: Sketch: Road Access to Johanson Lake.



not to scale: