

84-#114-12488
3

REPORT

ON THE

SANQUHAR CLAIMS (59 UNITS)
RECORD NOS. 1564(3), 1565(3), 1595(6), 1599(6)

*Jumbo, Gladstone, Corbin
North Star.*

ILLECILLEWAET MINING DISTRICT
REVELSTOKE MINING DIVISION
ILLECILLEWAET, BRITISH COLUMBIA

N. Lat. 51°12'

W. Long. 117°47'

82N/4

for

SUFFOLK RESOURCES LTD.
Suite 809
837 West Hastings Street
Vancouver, British Columbia

by

GEORGE P. KRUECKL, P. ENG.

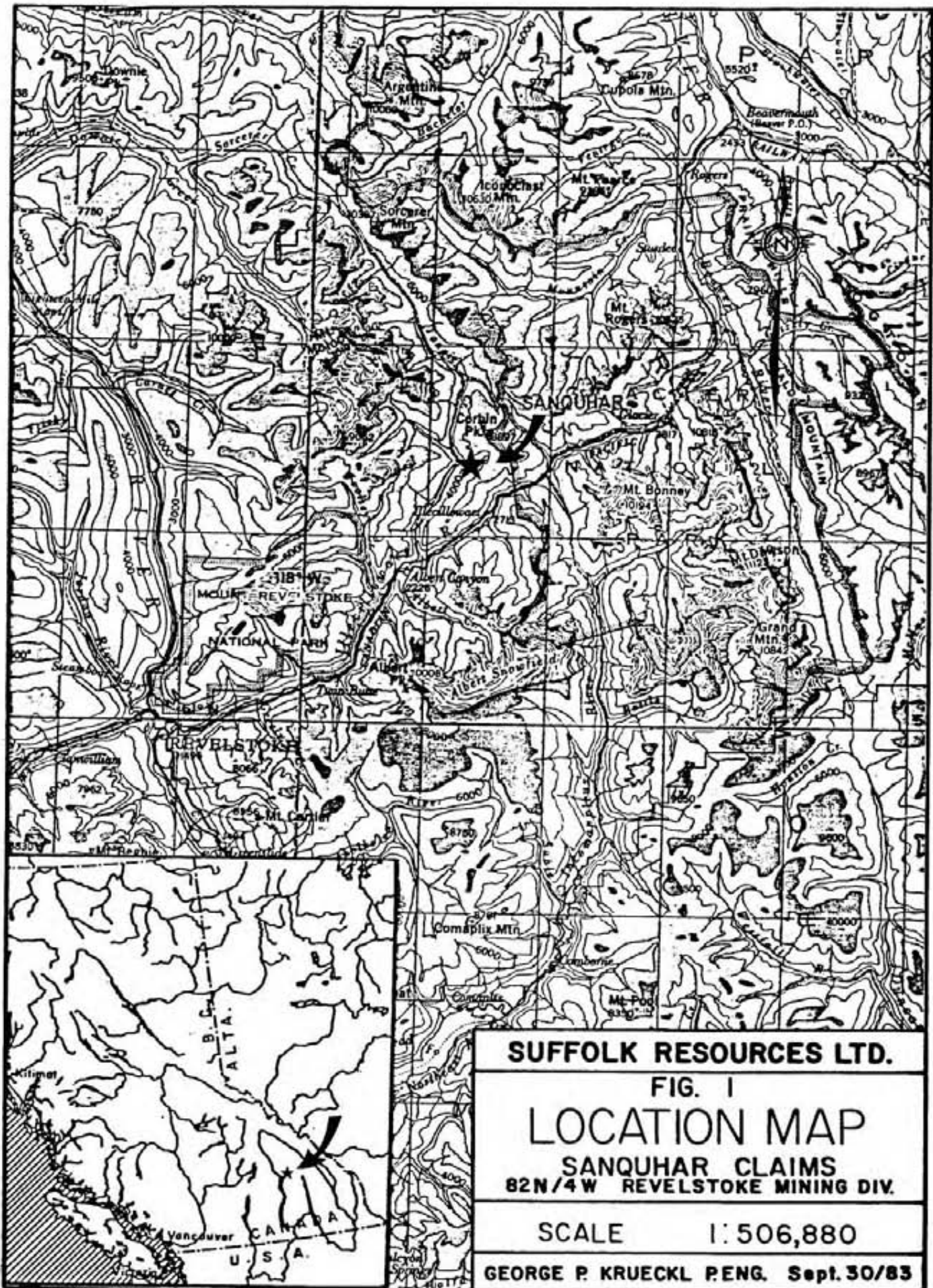
September 30, 1983 **GEOLOGICAL BRANCH**
ASSESSMENT REPORT Richmond, B.C.

12,488

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INTRODUCTION

This report was prepared at the request of the Directors of Suffolk Resources Ltd., Suite 809, 837 West Hastings Street, Vancouver, British Columbia.

The purpose of this report is to review the current and previous development work carried out on the Sanquhar group of mineral claims and assess the mine-making potential of the property.

This report is based upon a field examination of the claimed ground on September 7, 1983.

A program of mineral exploration is recommended.

SUMMARY AND CONCLUSIONS

The Sanquhar property is a silver-lead-zinc prospect.

The Sanquhar property consists of four claims having 59 claim units covering an area of 1475 hectares located 40 kilometres northeast of Revelstoke. The claim group is northwest of the old CPR station of Illecillewaet and is centered over the "Corbin Pass" area between the Illecillewaet River and the Tangier River.

The history of the property dates back to the 1880's when a claim owned by Kennedy and Corbyn was reported to have excavated three adits from which were extracted very rich silver ore. The three adits were called the Jumbo mine. In adjoining ground several excavations carried out in the late 1880's and early 1890's exposed similar mineralization. These were on the old Sanquhar and Summit claims and are reported in the G.S.C. and B.C. Minister of Mines reports. No work was carried out in the area after 1900 with the exception of minimum assessment work to hold claims. These claims were held by various individuals since 1900 and have become open ground early in 1983.

In June 1983 de La Mothe Exploration Services Ltd. of Vancouver staked four claims titled Jumbo, North Star, Corbin and Gladstone, together making up 59 claim units. These claims cover the old Jumbo, Sanquhar and Summit showings. Suffolk Resources Ltd., now owner of the claims, has carried out geophysical surveys and sampling of the showings. These have shown some interesting results and are reported in this report.

A field inspection of the quartz veins in the showings confirms the existence of high silver, lead, zinc values. In the Jumbo adits mineralization occurs primarily in a vertical quartz vein ranging in thickness from one to three metres. Some of the other showings have similar mineralization plus copper sulphides in the wall rock.

It is concluded the Sanquhar mineral claims should be explored further since very little work has been carried out since 1900 and, based on the history of the area, appears to be an excellent exploration bet. The ground has a favourable geological environment and with some additional field work it should be possible to develop mineral targets.

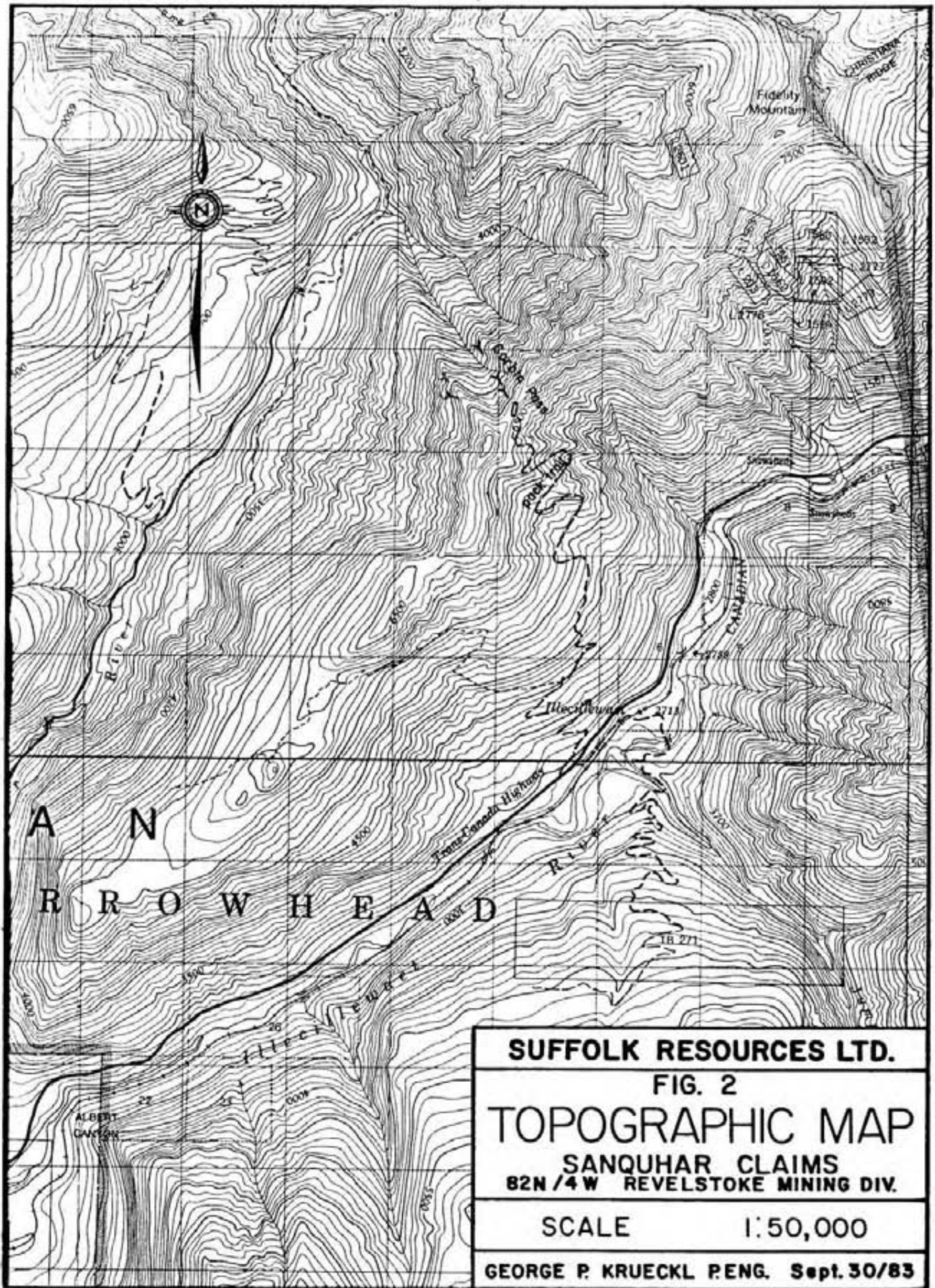
A program of mineral exploration is recommended at an estimated cost of \$45,000.

PROPERTY - LOCATION, ACCESS, PHYSIOGRAPHY

The Sanquhar Mineral Claims are located 40 kilometres northeast of Revelstoke on the north side of Illecillewaet River near the old CPR Station of Illecillewaet, British Columbia (Figure 2).

The Sanquhar property comprises four mineral claims as follows:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Area (Hectares)</u>
Jumbo	20	500
North Star	18	450
Corbin	12	300
Gladstone	<u>9</u>	<u>225</u>
TOTALS	59	1,475



A rough switch-back trail leads up the mountain side from the Illecillewaet River to Corbin Pass. This trail then descends on the other side to the Jumbo showings.

The Jumbo showings are located on the south slope of the Tangier River valley and four kilometres north-northwest of the Illecillewaet Station at an elevation of about 5,300 feet above sea level. The Sanguhar and Summit showings are just south of the Jumbo showings near the Corbin Pass at an elevation of about 6,700 feet above sea level.

The topography of the claim group is relatively steep, involving the north slope of the Illecillewaet River valley and the south slope of the Tangier River valley in the area of Corbin Pass.

A major portion of the claims is covered with forest.

CLAIM

The Sanguhar mineral claims are located in the Revelstoke Mining Division.

Information on file with the British Columbia Ministry of Energy, Mines and Petroleum Resources at Revelstoke, British Columbia is as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Recorded Holder</u>
Jumbo	4Wx5N=20	1564	March 1, 1983	Dean A. de la Mothe
North Star	6Nx3E=18	1565	March 1, 1983	Dean A. de la Mothe
Corbin	3Wx4N=12	1595	June 21, 1983	Dean A. de la Mothe
Gladstone	3Nx3E= 9	1599	June 21, 1983	Dean A. de la Mothe

The Sanguhar mineral mineral claims are shown on British Columbia Mineral Claims Map M82N/4E (Figure 3).

HISTORY - PREVIOUS DEVELOPMENT

Mining in the Illecillewaet area goes back to the 1880's when many independent mining ventures were undertaken in the Illecillewaet mining area. Some 200 claims were located in the area and many adits and open cuts were worked, the most prominent of these being the workings of the "Lanark Mine". Some 800 tonnes of ore containing gold, silver, lead were shipped out for smelting from this mine, yielding 0.01 oz. gold, 42 oz. silver and 800 lbs. lead per tonne.

One of the earliest claims worked in the area during the 1880's was the Jumbo claim belonging to Corbin and Kennedy. The mineralized showing on this claim is located on the south slope of Tangier River Valley at about 5,300 feet above sea level. The terrain is very steep and the showing consists of a massive vertical quartz vein, cutting black slates which are in this location almost horizontal. The vein varies in width from one to three metres and is mineralized with galena and pyrite. The ore mined concentrated readily to about twenty to one. An assay of the concentrate went 316 oz. per ton silver in 1888. Three adits following the massive quartz vein were worked prior to and during 1888 attaining lengths of 30, 22 and 12 metres.

Further reports on the Jumbo property were given in 1893, 1896, 1899 and 1900. From these reports it is apparent that the excavating was completed prior to 1892, the adits being extended a short distance further based on the lengths given in 1888. A carload of ore was shipped to Scotland in 1893.

The Sanquhar and Summit mineral claims were first reported in 1896. The showings on these claims are located due south and 1,000 feet higher than the Jumbo adits in the location of the "Corbin Pass". The showing on both these claims involves a nine metre shaft and a 23 metre adit. The adit was excavated in a greenish rock, mineralized with calcopyrite and pyrite. These workings were extended a short distance further in the next two years and no more work was carried out since then to the present day.

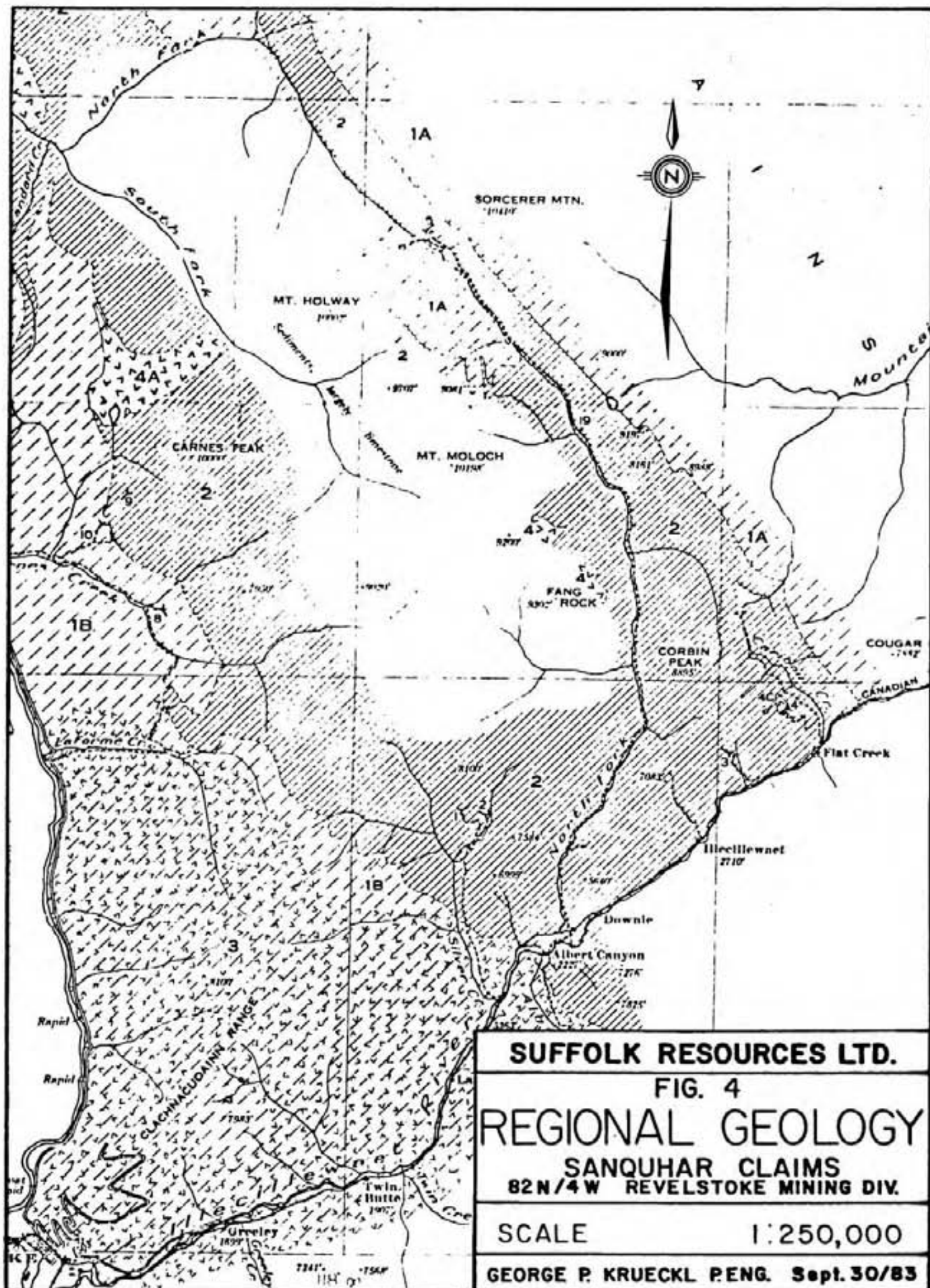
REGIONAL AND LOCAL GEOLOGICAL SETTING

The region is underlain by a series of metamorphosed Precambrian sediments which strike from north to northwest and dip to the east. All of these rocks are complexly folded in a series of essentially isoclinal anticlines and synclines. The sediments include crystalline limestones, quartzites, mica schists, slates, phyllites, argillites, and chlorite schists, and are cut by numerous stocks, dykes, and sills of granite rocks of Mesozoic age.

The sediments are divided, on a lithologic basis, into two major subdivisions (see Figure 4). Member 1 is subdivided into two submembers consisting of quartzites, schists and some limestone beds. Member 2, which makes up the rocks in the area being reported, consists of a thick and complexly folded series of crystalline limestones, argillaceous and carbonaceous sediments varying from argillite to slate and schists, mica schists, quartzites and chlorite schists.

In the vicinity of the Lanark mine, grey to black carbonaceous sediments, varying from flaggy argillites to slates, and pure white to impure carbonaceous crystalline limestones, are well exposed. In this area, mineralization occurs chiefly in quartz veins, cutting a series of shales and limestones. These veins are often very folded, having an average dip from 35° to 40° to the east-northeast and apparently flatten towards the summits of the mountains. Most of the veins are parallel with the stratification, though not infrequently passing from one bed plane to that of another.

In the vicinity of the Jumbo, Sanquhar and Summit mineral showings the sediments consist of chiefly black to dark greenish slates with no limestone beds appearing to be present. The area consisting of relatively flat lying slates has been intruded by quartz veins, one of which is a massive near vertical quartz vein. Mineralization in the area of the Jumbo showings consists of galena and some pyrites containing high silver values and some gold. In the area of the Sanquhar and Summit showings the mineralization consists of galena, chalcopyrite, tetrahedrite and pyrites. These also carry good silver values. All of these showings are located in the massive near vertical quartz vein.



MINERALIZATION - ASSAYS

Mineralization in the vicinity of Lanark mine (the Sanquhar claims are adjacent to the Lanark mine) occur as fissure quartz veins and as replacements in limestone (where limestone is present). These occurrences are a type of low-temperature mineralization where galena, sphalerite and pyrite are the principal sulphides, and pyrrholite being absent. The values in gold are generally low, but silver values are high and appear to be controlled by the amount of galena present.

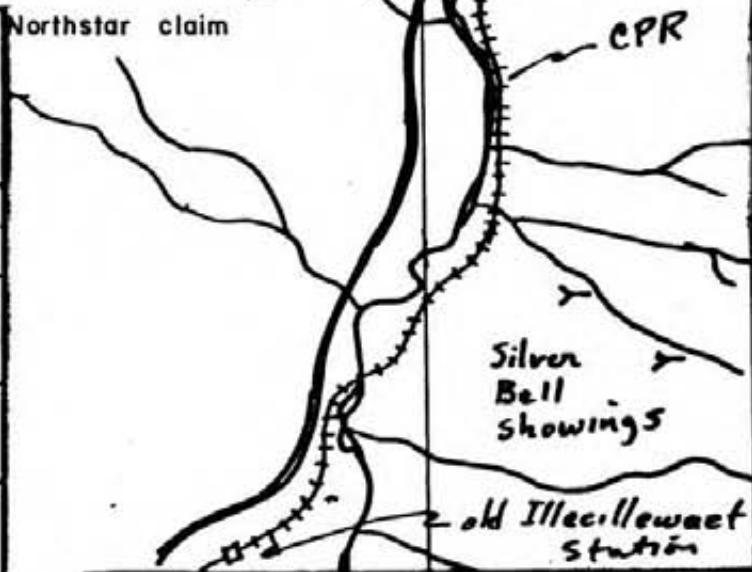
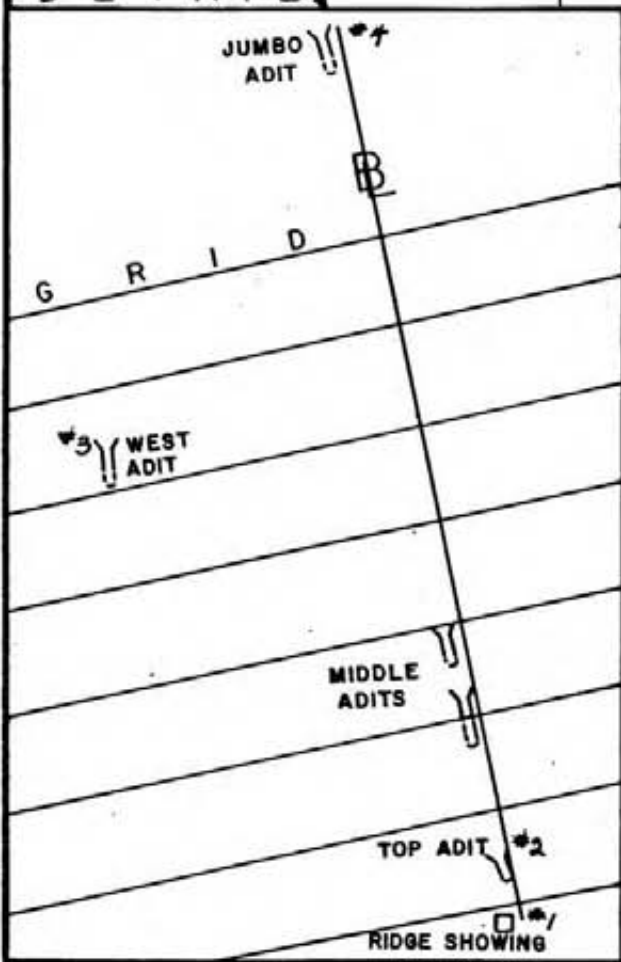
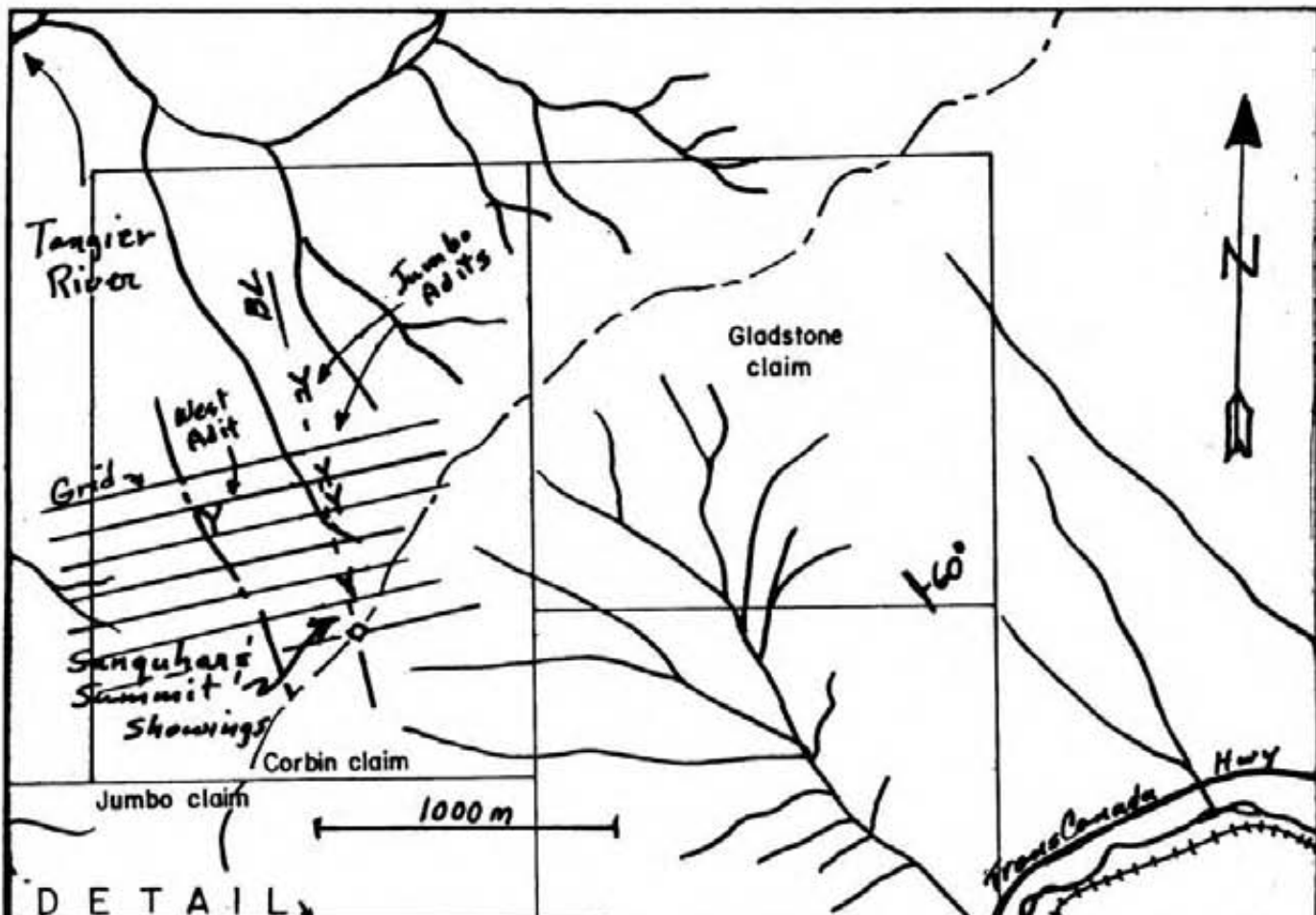
Mineralization in the area of the Jumbo showings consists of galena and some pyrites containing high silver values and some gold. Four samples were taken, one in each of the three adits reported on this part of the property (see samples #2, 3 and 4 below) and one in the Ridge Showing located in Corbin Pass (see Figure 5). In the area of the Sanquhar and Summit showings the mineralization consists of galena, chalcopyrite, tetrahedrite and pyrite with high silver values. The two middle adits were caved and therefore not sampled.

<u>Sample No.</u>	<u>% Pb</u>	<u>% Zn</u>	<u>(oz/ tonne) Ag</u>	<u>(oz/ tonne) Au</u>
#1 Ridge Showing	3.98	0.80	43.80	.006
#2 Top Adit	5.10	1.48	52.30	.002
#3 West Adit	7.40	2.60	50.40	.005
#4 Lower Adit	23.85	9.80	223.00	.009

RESULTS OF THE 1983 GEOPHYSICAL SURVEYS

During August 1983 a grid for survey control was established on the claim (Figure 5). A very low frequency electromagnetic (VLF-EM) survey was carried out over the grid. The results of the survey are interesting and are shown on Figure 6.

The VLF-EM survey used a EM-16 Fraser Filtering technique which involves manipulating data to transform noisy non-contourable data into less noisy contourable data. The manipulation is the result of the application of a "difference operator" to transform zero crossings into peaks, and a "low-pass smoothing operator" to reduce noise.

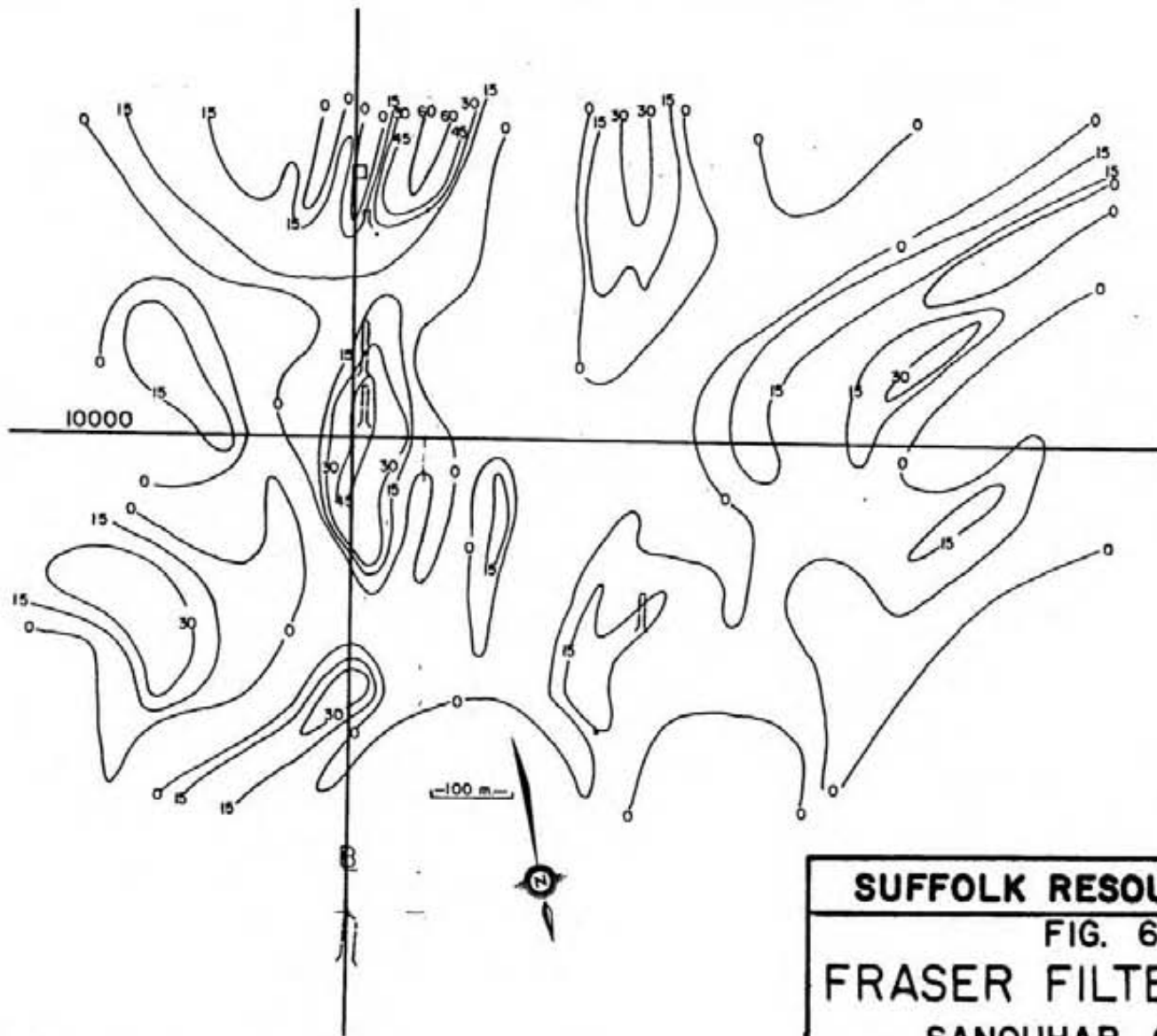


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FIG. 5
**PLAN OF
 PREVIOUS WORKINGS
 SANQUHAR CLAIMS**
 82 N/4 W REVELSTOKE MINING DIV.

SCALE AS SHOWN

GEORGE P. KRUECKL P. ENG. Sept. 30/83



TRANSMITTER

LUALAPUEI HAWAII 23.4 KHz

CO-ORDINATES 158W09-21N25

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FIG. 6

FRASER FILTER EM-16

SANQUHAR CLAIMS
82N/4W REVELSTOKE MINING DIV.

SCALE AS SHOWN

GEORGE P. KRUECKL PENG. Sept. 30/83

The EM-16 survey results were plotted and contoured at an interval of 15 units as shown on Figure 6. Several electromagnetic "Highs" shown on the plan correspond to the mineralized quartz vein discussed in the foregoing pages.

REFERENCES

Information in the following publications is considered to be pertinent to the ground covered by the Sanquhar mineral claims.

British Columbia Minister of Mines Reports for the years

- 1889 - pg. 304 & 324
- 1893 - pg. 1050
- 1896 - pg. 540
- 1898 - pg. 1062
- 1899 - pg. 677 & 678
- 1900 - pg. 811
- 1921 - pg. G153
- 1960 - pg. 133

Geological Survey of Canada Annual Report, Volume VIII for the years 1887 and 1888 written by Dr. Selwyn, pg. 2A and 3A.

Geological Survey of Canada - Mineral Wealth of British Columbia Mining Districts Volume II, 1887-88, pg. 64R by Dr. George M. Dawson.

Geological Survey of Canada - Geology and Mineral Deposits of Big Bend Map - Area Memoir 237A, 1928, pg. 136A to 192A by H.C. Gunning.

Ministry of Energy, Mines and Petroleum Resources, Resource Data Section.

- Showing Names - Sanquhar
- Summit Lode
- Elkhorn
- Jumbo
- Gladstone

Air Photograph Series

BC7801 No. 028 to 031

BC7802 No. 043 to 047

BC4007 No. 007 to 008

BC4007 No. 102 to 104

BC4003 No. 60 to 61

RECOMMENDATIONS

The field program as originally conceived involved three phases of mineral exploration work:

Phase 1 involving claim staking, geophysical surveys and sampling of mineralized zones;

Phase 2 involving geological mapping, sampling of outcrops and mineralized showings and alternative geophysical surveys;

Phase 3 involving diamond drilling.

The Phase 1 work has been completed and results from the geophysical surveys and sampling carried out are encouraging. A Phase 2 and Phase 3 program are therefore recommended as follows:

Phase 2

Establish an improved access to the site, particularly to the Jumbo adits. Carry out a detailed assessment of the Jumbo adits and muck piles to quantify the silver concentrates at these sites. Investigate if it is possible to re-establish access to the middle workings so that sampling can be carried out. Carry out geological mapping of the claimed area and, where mineralization is evident, sampling of outcrops. Results of the Phase 1 geophysical survey are encouraging and since additional veins are reported in the area, investigate if the anomalies shown correspond to those veins. Investigate the use of alternative or more refined geophysical survey techniques.

Due to the disseminated nature of the mineralization a ground survey using combined "resistivity", "induced polarization" and "electromagnetic" methods of target detection should be investigated.

Phase 3

Contingent upon the results of the Phase 2 program, it is proposed to diamond drill the indicated mineralized zones. Due to the difficulty of access seen on this property, investigate using EX size drilling equipment. Investigate concentrating techniques that would be feasible for the type of silver bearing quartz vein material on this property.

ESTIMATED COST OF THE PROPOSED WORK PROGRAM

Phase 1 (completed Sept. 7, 1983)

Involved claim staking, geochemical surveys,
and geological surveys

Subtotal	\$13,000
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Phase 2

Geological mapping - 8 days	8,000
Geophysical surveys	6,000
Sampling of Mineralized Zones	<u>3,000</u>
Subtotal	17,000

Phase 3

4 shallow diamond drill holes using EX core 50 metre each @ \$75/m	<u>15,000</u>
Subtotal	15,000

TOTAL	\$45,000
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CERTIFICATE

I, George P. Krueckl, of the City of Richmond, Province of British Columbia, hereby certify as follows:

1. I am a Consulting Geological Engineer with an office at 4860 Fortune Avenue, Richmond, B.C., V7E 4H9.
2. I am a registered Professional Engineer of the Province of British Columbia.
3. I graduated with a degree of Bachelor of Science, Geological Engineering, from the University of Saskatchewan, 1962.
4. I have practised my profession for 21 years.
5. I have no direct, indirect or contingent interest in the shares of Suffolk Resources Ltd. or the Sanquhar mineral claim, subject of this report, nor do I intend to have any interest.
6. This report dated September 30, 1983 is based on a personal field examination I made on September 7, 1983, and from information gathered from available maps and reports.
7. Permission is granted to publish this report dated September 30, 1983, in the Prospectus for Suffolk Resources Ltd. Written permission from the author is required to publish this report for any other purpose.

DATED at Richmond, Province of British Columbia, this 30th day of September, 1983.



George P. Krueckl, P.Eng.
Consulting Engineer

COST STATEMENT

Prospecting	
1 man 4 days @ \$100 day	400
Grid Layout	
1 man 25 days @ \$150 day	3,750
EM Survey	
1 man 29 days @ \$150 day	4,350
Helicopter total surveyed 117km	
4hrs.	2,000
EM Rental	
30 days @ \$40 day	1,200
Food, Misc.	1,000
Data Coplation and Fraser Filter Reducions	
1 man 2 days @ \$150 day	300
Report Preparing	
Consultion 4 days @ \$300 day	1,200
Drating, Word Processing, Copying	264
Train Fare and Meals	124
Computer Mapping	102
4 Assays-Pb, Zn, Ag, Au @ 25.50 each	102
4 Assay Sample Prep. @ 3.00 each	12
	<hr/>
total	14,804.

VLF-EM SURVEY DATA

Example of data listing

	5	10400	10125	101	190	47		
OMIT	↑	↑	↑	↑	↑	↑	FINAL FRASER FILTER	
	LINE NUMBER		STATION	DIP	CALCALTOIN DATA			

Listing of SANQAUR.DAT at 10:22:40 on AUG 29, 1984 for CCId=ZMCL Page 1

1	10400	10000	65		
2	10400	10025	79	143	
3	10400	10050	78	171	-45
4	10400	10075	92	188	22
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6	10400	10125	101	190	47
7	10400	10150	80	146	55
8	10400	10175	45	135	61
9	10400	10200	55	85	47
10	10400	10225	40	88	11
11	10400	10250	33	74	5
12	10400	10275	34	83	-50
13	10400	10300	50	124	-46
14	10400	10325	90	129	-56
15	10400	10350	79	180	-30
16	10400	10375	90	159	-26
17	10400	10400	80	154	19
18	10400	10425	64	140	40
19	10400	10450	60	114	28
20	10400	10475	50	112	17
21	10400	10500	52	97	0
22	10400	10525		110	-12
23	10400	10550			-11
24	10400	10525	47		
25	10400	10550	60	109	
26	10400	10575	62	123	-12
27	10400	10600	63	121	7
28	10400	10625	59	115	10
29	10400	10650	52	111	13
30	10400	10675	52	102	2
31	10400	10700	50	109	-6
32	10400	10725	57	108	-10
33	10400	10750	58	119	-19
34	10400	10775	62	127	-23
35	10400	10800	69	142	-34
36	10400	10825	80	151	-27
37	10400	10850	82	169	-1
38	10400	10875	89	152	8
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42	10400	10975	76	120	
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45	10300	10025	65	130	
46	10300	10050	60	128	18
47	10300	10075	63	112	18
48	10300	10100	52	110	14
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53	10300	10225	38	85	18
54	10300	10250	35	68	-5
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59	10300	10375	65	139	16
60	10300	10400	63	122	24
61	10300	10425	57	115	16
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64	10300	10500	43	95	5
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66	10300	10550			-16
67	10300	10525	46		
68	10300	10550	47	98	
69	10300	10575	52	106	-15
70	10300	10600	59	113	-23
71	10300	10625	61	129	-27
72	10300	10650	70	140	-23
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80	10300	10850	72	135	3
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82	10300	10900	64	144	10
83	10300	10925	69	126	14
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89	10200	10050	52	137	-25
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91	10200	10100	75	129	29
92	10200	10125	39	98	30
93	10200	10150	23	99	16
94	10200	10175	60	82	-8
95	10200	10200	59	107	-5
96	10200	10225	47	87	11
97	10200	10250	28	96	-6
98	10200	10275	49	93	-13
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101	10200	10350	62	123	-9
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107	10200	10500	70	131	-19
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151	10100	10525	75		
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153	10100	10575	71	131	20
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161	10100	10775	50	91	-8
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163	10100	10825	62	115	-9
164	10100	10850	64	121	-9
165	10100	10875	59	126	-8
166	10100	10900	62	129	2
167	10100	10925	70	124	-5
168	10100	10950	62	134	-5
169	10100	10975	64	129	
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170.5		-1			

171	10000	10000	43		
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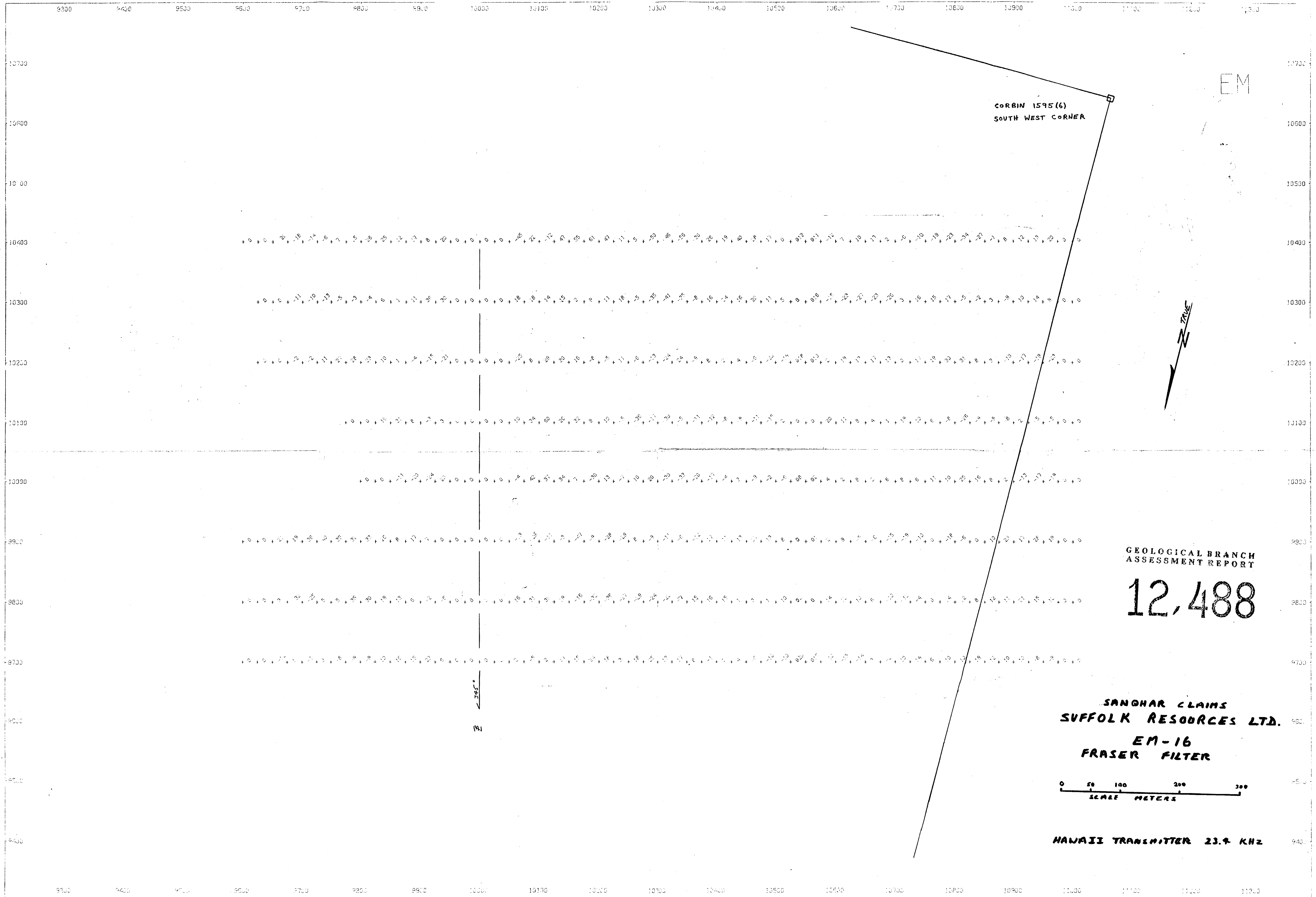
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Listing of SANQUR.DAT at 10:22:40 on AUG 29, 1984 for CCid=ZMCL Page 9

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CORBIN 1595(6)
SOUTH WEST CORNER

EM

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,488

SANGHAR CLAIMS
SUFFOLK RESOURCES LTD.
EM-16
FRASER FILTER

0 50 100 200 300
SCALE METERS

HAWAII TRANSMITTER 23.4 KHZ

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