FIELD

TARGET PROJECT #117

ANNUAL REPORT
1980

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TARGET PROJECT # 117

ANNUAL REPORT 1980

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#### TARGET PROJECT

#### ANNUAL REPORT 1980

#### SUMMARY

Check analysis was carried out for precious metals on available samples south of Francois Lake in central British Columbia. Prospecting followed to investigate moderately anomalous results and succeeded in locating silver bearing float south of Borel Lake which has been staked as the BRAN claim group. Review of 1980 geochemical results also shows an area of some interest northeast of Binta Lake. A single stored sample had run 160 ppb gold. Check sampling has given scattered values up to 3.4 ppm silver as well as 160 ppb and 340 ppb gold which may be related to the west margin of an acid intrusive mapped by our crews. This location is to receive further attention in 1981.

The HALO claim was staked five miles sputh of the BURN property on copper molybdenum geochemistry. Exploration during 1980 failed to locate significant mineralization. A visit to the property is proposed for 1981 to investigate coincidence of geochemical and magnetic low anomalies.

The FLAME claim was staked early in 1980 to cover old copper showings reported to contain gold values. Sampling indicates only low values and small zones of mineralization. No further work is proposed.

Prospecting in the Chuchi Lake area for massive sulphides was cut short for budget reasons and because of poor performance of that particular crew. Proposed prospecting for precious metals in the Vital-Silver-Kwanika Creek area was not attempted.

Work was done on SWAB group to investigate molybdenum geochemistry. Portions of the anomalies were more closely defined but no mineralization was found. Pyrite occurs on fractures in poorly exposed dioritic intrusives. Further work is proposed to hold this claim group.

The GREER claim group received detailed work on several zones of interest. Results were negative and the claims will be allowed to lapse.

The DRUM group was staked on weak molybdenum mineralization north of SWAB and southeast of Endako. Only very weak geochemical indications were located by limited soil sampling. No further program is proposed.

Fairly extensive prospecting southeast of Quesnel for precious metals failed to locate anything of interest. No further work is proposed.

A further check of copper, molybdenum, tungsten geochemical indications at Marvin Creek north of Quesnel failed to locate mineralization of interest.

A proposed program for 1981 is provided with this report. Total budget is indicated to be \$50,000.00 with a major percentage of these funds allocated to the SWAB group.

The financial report for 1980 indicates total expenditure for the year as

#### **AGREEMENTS**

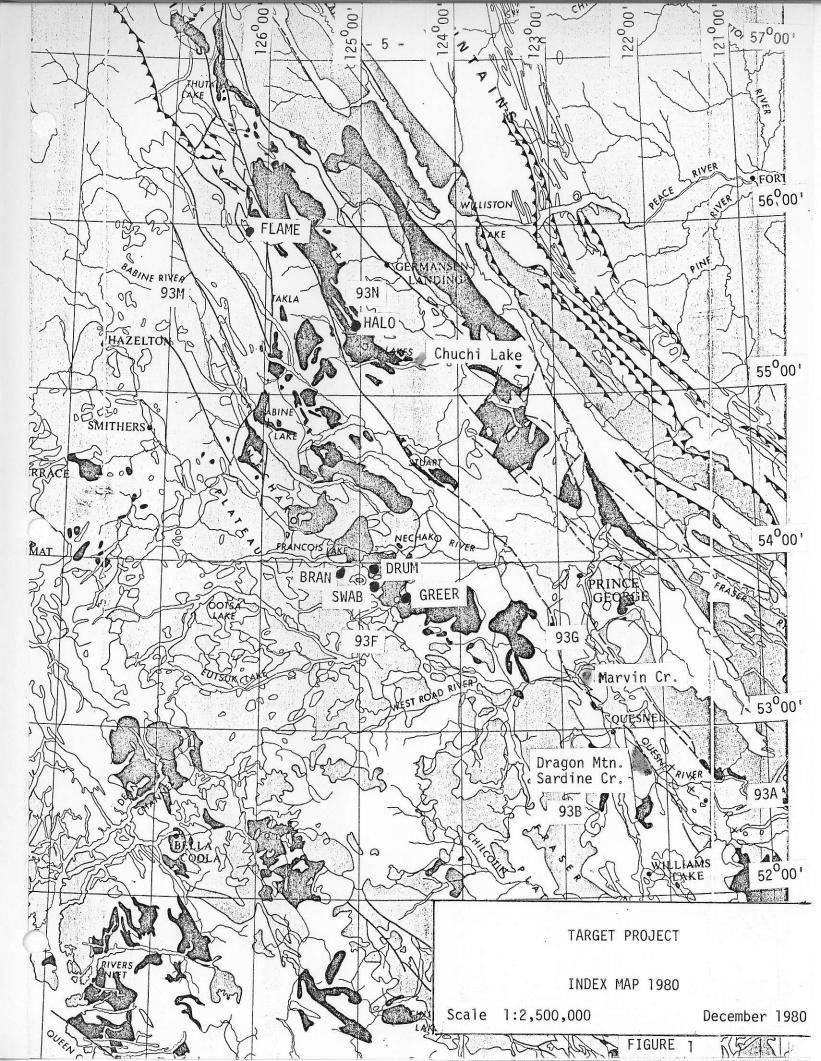
An informal agreement was arranged in January 1980 to avoid conflict between Dome funded projects TARGET and GOLDEX. TARGET was to carry out a check of existing samples south of Francois Lake and west of Fraser River for precious metal prospects. General prospecting was otherwise to be restricted in that area.

#### URANIUM MORATORIUM

Percussion drilling had been planned on the main uranium-molybdenum anomaly on claims SWAB 2 and 3 for early 1980. Premier Bennett announced a moratorium on uranium mining in British Columbia on February 27. As a result the drill program was cancelled and the funds diverted to general exploration.

The Order-in-Council reserving rights to uranium was filed April 26, 1980 and a copy of the notice is included with this report as Appendix I.

A ruling on the status of claims already staked for uranium was sought and we were advised that assessment work or cash in lieu of work would be required to keep claims in good standing. In order to hold SWAB group exploration was therefore directed to the molybdenum geochemistry in the northeast portion of the property. Work was concentrated on copper molybdenum indications on the GREER group.

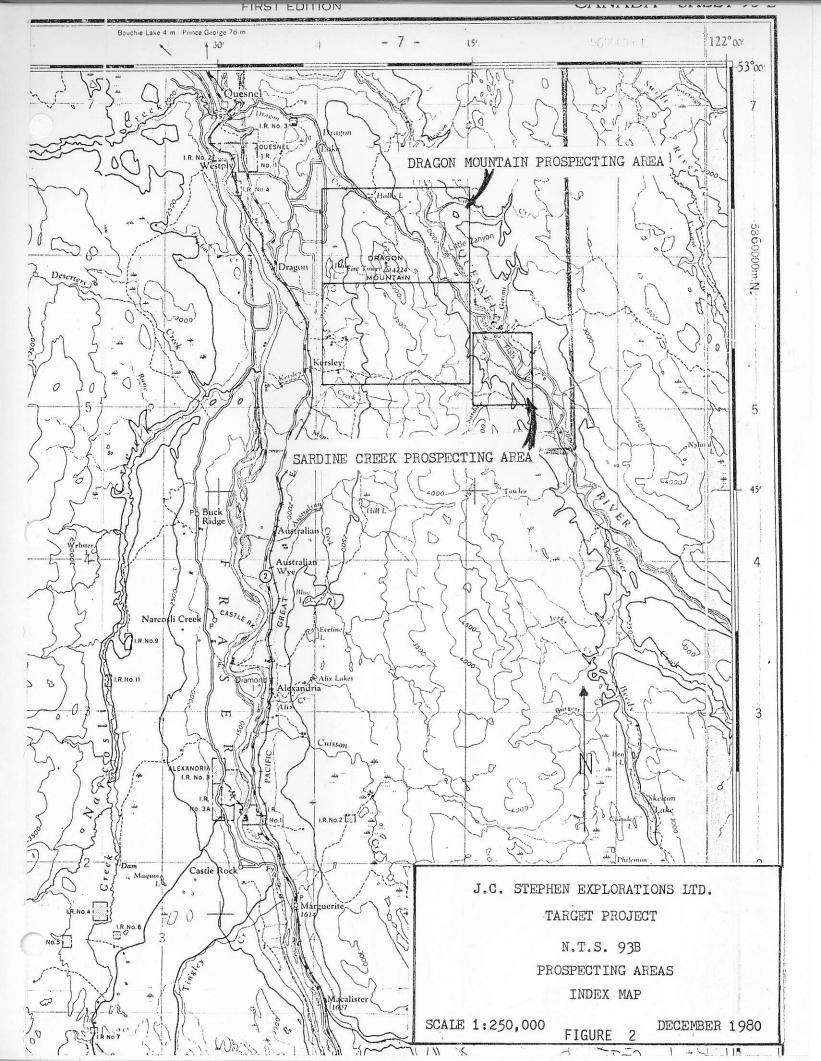


## CHECK SAMPLING PROGRAM

Various combinations of gold silver and arsenic determinations were done on some 335 stored geochemical samples. These were almost entirely from areas located south of Francois Lake and Prince George and only four samples returned gold values of 20 ppb or greater. Since most of these samples were originally finest available silt collected for copper-zinc-molybdenum analysis more reliance was placed on arsenic values to indicate areas for precious metals prospecting. Sixty-one samples ran 5 ppm arsenic or greater, approximately 20% of the total analyzed for arsenic.

The 1980 prospecting programs in the Sardine Creek, Dragon Mountain, Marvin Creek, Borel, Anzus and Binta Lakes area were based largely on these geochemical results. Results have been generally negative but discovery of silver bearing float south of Anzus - Borel Lakes resulted from prospecting upstream from the highest arsenic value of 155 ppm. This location was staked as the BRAN group.

Location of claim groups and prospecting areas is shown on Figure 1.



#### EXPLORATION RESULTS

#### MAP SHEET 93 B

Figure 2 Index Map 93B shows location of the Sardine Creek and Dragon Mountain prospect areas. Geochemical and limited geological data is provided on maps I - III with this report.

#### SARDINE CREEK Map 1

Sampling in this area had previously indicated slightly anomalous values for copper and zinc with moderate values for molybdenum and arsenic. Check of gold values returned a high of 30 ppb. See Figure 3.

A soil sample grid was run as shown on Map I. Relatively high arsenic values of 22 to 32 ppm were obtained in the north corner of the grid near Sardine Creek itself. A single gold high of 2850 ppb is located near the extreme south corner of the grid. The highest silver value was only 1.0 ppm and is not considered significant.

Placer prospecting has been carried out in the area and the location of test pits is shown on the map. Rock types exposed consist almost entirely of black argillitic or silt stone type sediments cut by felsite dykes. These rocks are exposed only in the creek beds and thick deposits of silt, fine sand and some gravel overlie bed rock beyond the stream courses. It is likely that soil sampling in the higher areas is ineffective due to this deep glacial, glacial lake and river type sediment.

An exposure of semi to well consolidated conglomerate occurs to the south east of the grid and may represent a Tertiary deposit.

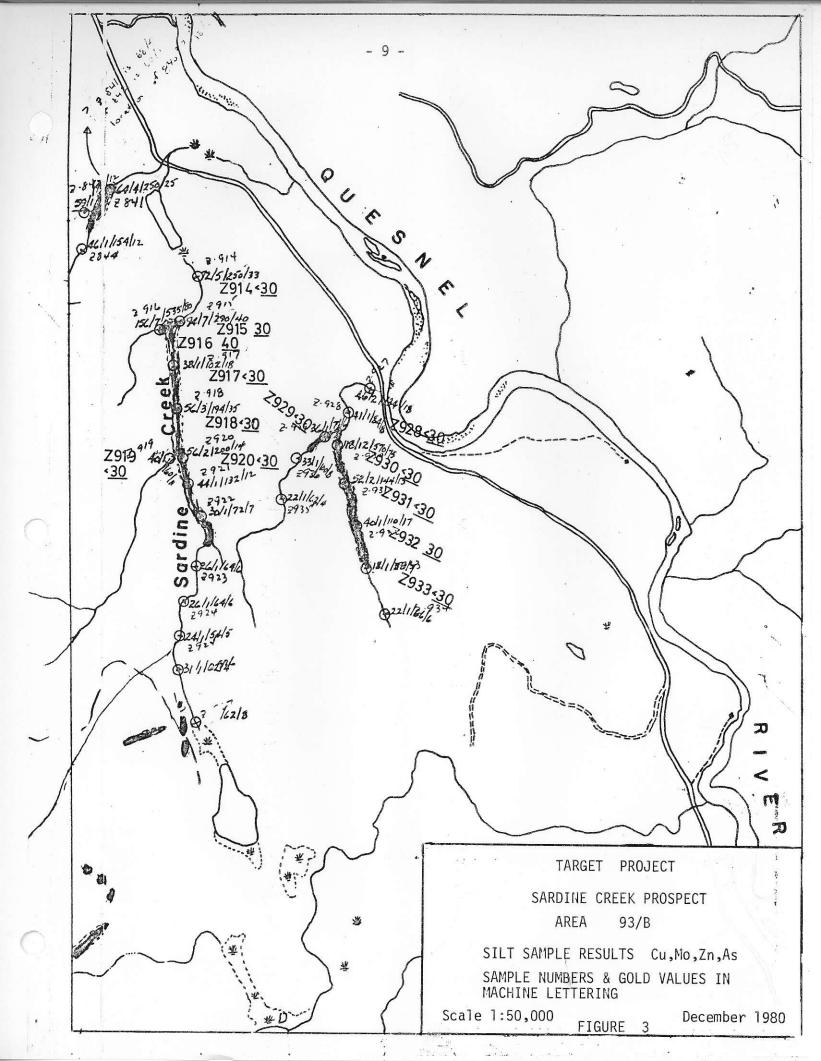


TABLE 1

ROCK GEOCHEMICAL RESULTS SARDINE CREEK AREA

		•	PPB		F	PM		
SAMPLE NO.	CREEK	ROCK TYPE	AU	AS	AG	CU	ZN	M0
33355A	1300 M. East (	Cr. Felsite Py	<10	19				
356	11	11 11	<10	12				
357	11	Silic Sed, Py Qtz	20	>500				
358	ш	Quartz Float	<10					
359	II	Quartz Float Py	<10		0.6			
360	II	Quartz Py	<10		0.1			
361	11	Shale	.10	15	0.1		600	
362	II .	Shale Py	:10	4		86	140	6
363	u	Shale Float Py o	:py<10	7		260	230	15
364	II .	Shale		3			260	8
365	II	Shale		65				
80813	II	Shale Quartz py	10	7	0.8			
80803	Sardine Creek	Shale	<10	10	0.1			
804	11	Quartz Vein	<10	4	0.1			
805	II	Shale Qtz Veins	<10	1	0.4			
806	11	Shale Silic py	<10	35	0.1			
807	11	Dyke Silic	<10:	>500	0.6			
808	II	Quartz Breccia	<10	95	0.4			
809	II	Shale Silic	<10	23	0.1			
810	11	Shale Silic	<10	9	0.6			
811	11	Shale Silic	<10	120	0.2			
812	11	Shale Silic	<10	19	0.1			

Prospecting of the stream beds showed a fair amount of quartz rich float and some pyritic mineralization. Some rock geochem values are shown on Map I, complete results are listed in Table 1. No significant gold or silver values were obtained but three samples in the vicinity of a fault zone on Sardine Creek gave values of 35 to 500 ppm arsenic.

#### CONCLUSIONS

Moderate intensity multi-element stream silt anomalies for copper, zinc and molybdenum appear to be related to traces of these elements in the black shaley sediments. Only very minor chalcopyrite mineralization was seen in float. The highest arsenic values appear to be related to sheared and altered zones. A specimen of cinnibar mineralization was reported south east of this area several years ago and as the area is thought to lie on the trend of the Pinchi Fault it is possible arsenic and mercury mineralization may be associated with faulting. No significant precious metal values were obtained even from attractive looking quartz float with pyrite mineralization.

No further work is recommended.

#### DRAGON MOUNTAIN

Geochemical results and geology are shown on Maps II (North Sheet) and III (South Sheet).

The soil sample grid shown on Map II covers the north extension of the silt anomaly investigated at Sardine Creek. Silt results are shown on Figure 4.

A much higher proportion of volcanic rock types are present in the Dragon Mountain area as shown by mapping along the access road and one creek. Less prospecting was done and only limited rock geochemistry than in Sardine Creek. Results are shown on Map II. Sample 80802 contained arsenopyrite but no significant gold or silver content is indicated.

The area has been prospected for placer gold and it is likely that gravel, sand and silt deposits are locally quite deep. The highest gold value obtained was 60 ppb north of Dragon Mtn. Quartz veins observed in outcrop were barren. Rock geochem values are listed in Table II.

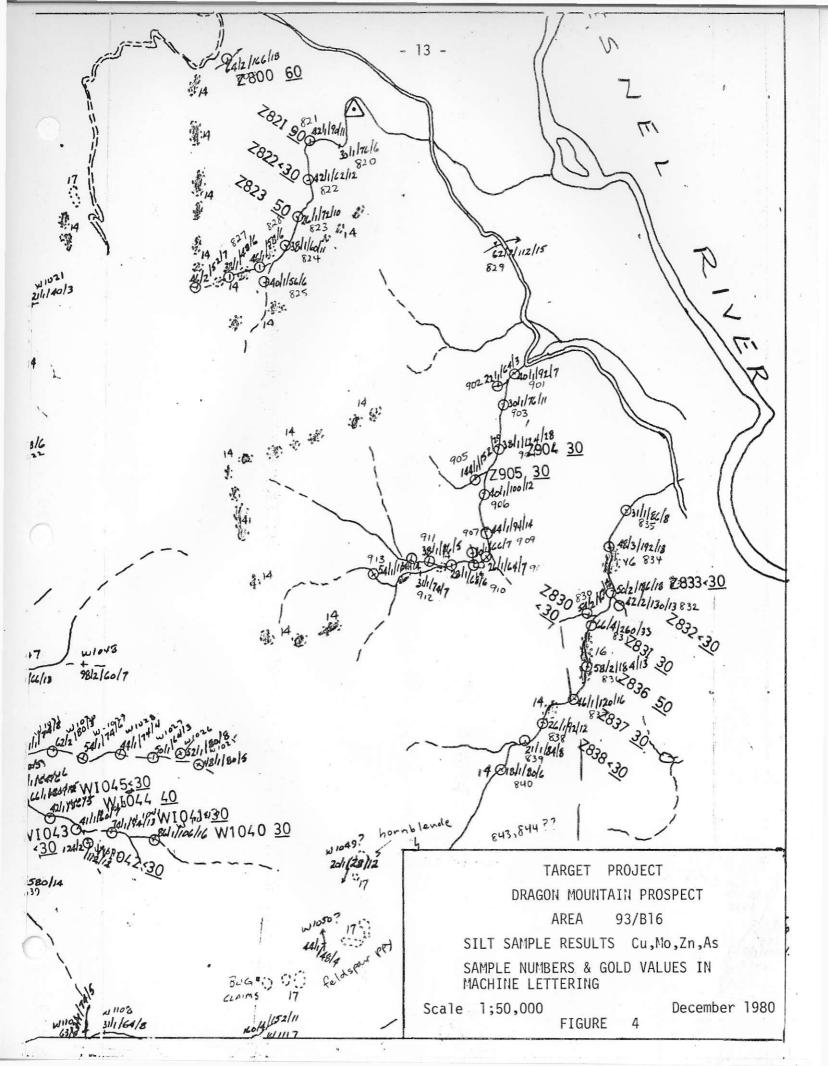


TABLE II

ROCK GEOCHEMICAL VALUES DRAGON MOUNTAIN AREA

SAMPLE NO.	LOCATION	ROCK TYPE	AU	AS	AG	CU	ZN	MO
80801	Dragon Mtn Road	Felsite py	⊲0	15	0.1			
802	11 11 11	Chlorite Schist Asp.	10>	>500	0.1			
80851	44N 5+50E	Quartz	<10	1	0.1			
852	0+50E	Quartz	<10	1	0.1			
853	6+00E	Andesite	10	3	0.1			
854	8+10E	Dacite	10	14	0.1			
855	Kim's Creek	Qtz Vein	<10	1	0.1			
856	11	Black Shale	20	39	0.2			
857	п	Qtz Vein	10	33	1.0			
858	п	Qtz Vein	<10	22	0.2			
80752	Dragon Mtn.	Dacite + Qtz Vein		1	0.1			

Again it is thought the silt anomalies are probably due to minor copper zinc molybdenum content in the shaley sediments while arsenic values may be related to fault structures.

Sampling was also done in an area east of Kerseley and south of Dragon Mtn as shown on Map III. Similar silt values had been obtained in this area. Logging and some agriculture are being conducted in the area.

No significant gold, arsenic or silver values were obtained.

No further work is recommended in these areas.

# SHEET 93G

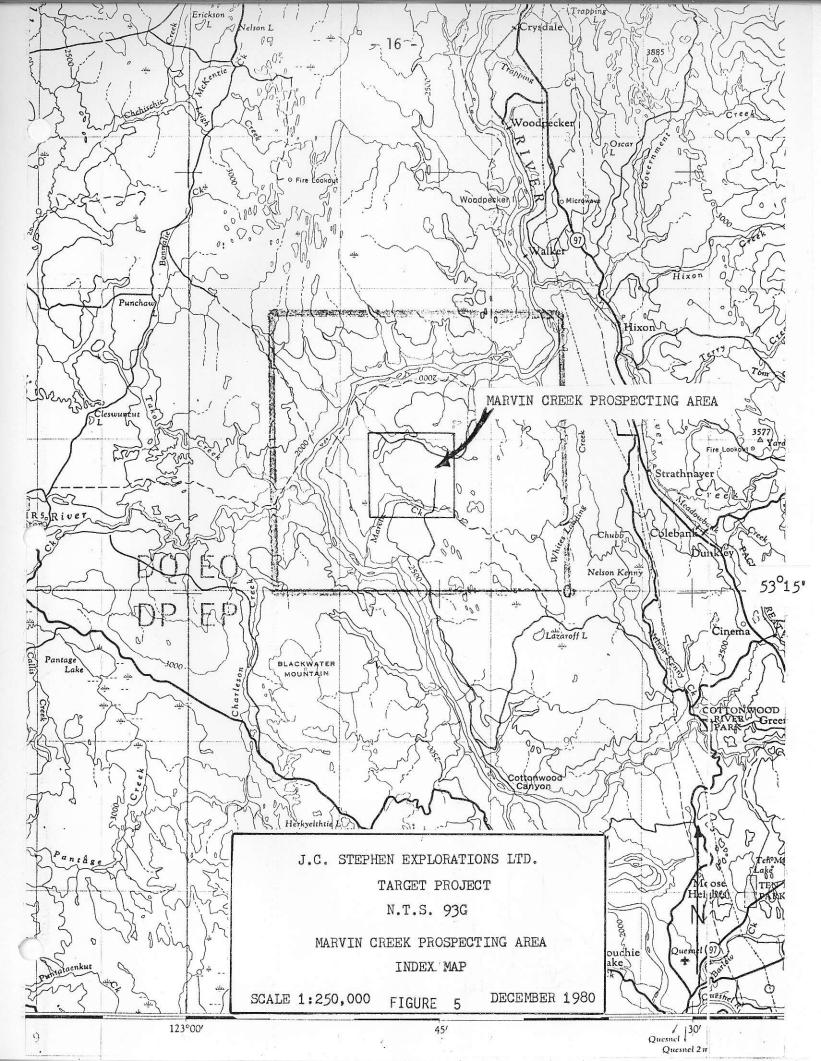
#### MARVIN CREEK AREA

Figure 5, Index Map 93G shows location of the Marvin Creek area. Geochemical results and some geology are shown on Map 1V.

Attention was first drawn to this area during reconnaissance silt sampling in 1966 when moderate copper values were obtained. Later analysis returned scattered values for molybdenum and tungsten. The area has been visited very briefly on at least five occasions with the most detailed work being that reported here for 1980.

Map 1V shows a grid of soil samples taken in the area indicated to be the source of the original anomalous silt samples. Values for Mo and W reach highs of 13 and 10 ppm respectively, but no significant anomaly is indicated. An inset plan of the grid shows As, Ag, Au values as well. An isolated value of 120 ppb Au on the east margin of the grid is associated with the highest As values of 23 to 63 ppm. These are in the same area as the highest (4-12 ppm) values for Mo and W.

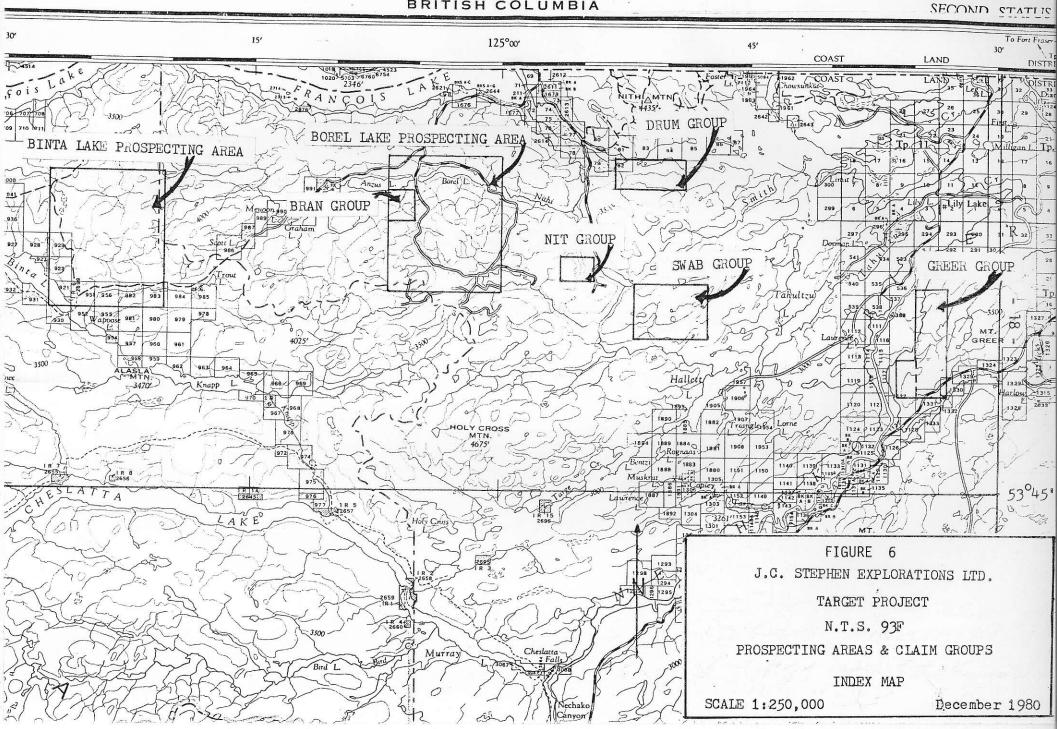
Rock rubble and minor outcrop indicates a biotite granodiorite intruding micaceous quartzite and graphitic slate. Quartz veining occurs and minor amounts of pyrite, chalcopyrite and tetrahedrite were found. A lens of talc has been opened up.



## CONCLUSIONS

Moderately anomalous values have been obtained in this area for copper, zinc, molybdenum and tungsten. Prospecting is hampered by lack of outcrop. Soils of various natures, including thick clay and silt deposits, make soil sampling relatively ineffective. The very minor mineralization found in float is not encouraging.

No further work is recommended at present. Additional logging in the area may expose further rock as time goes on.



#### MAP SHEET 93F

## BINTA LAKE PROSPECTING AREA Figure 6

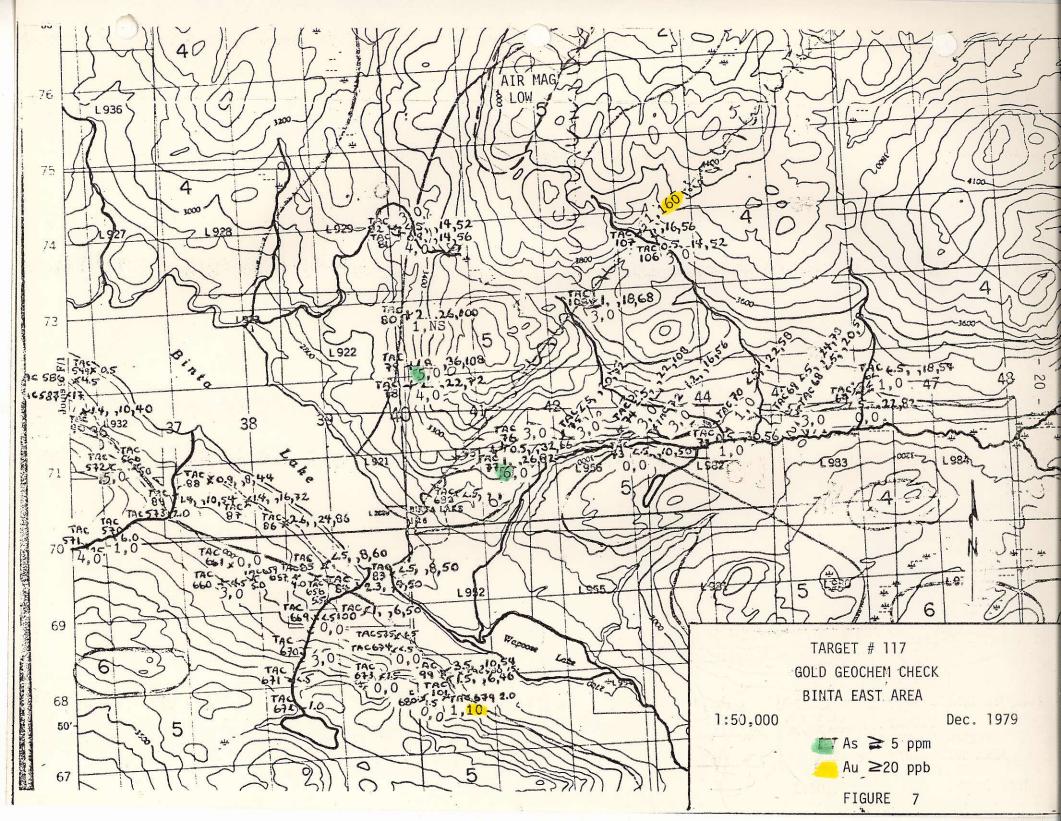
This area lies immediately north east of Binta Lake where silt sampling had been done in 1977 in search of uranium. Check analysis had returned an isolated value of 160 ppb gold in one creek. Check values for arsenic and gold are shown on Figure 7. These are only three values for arsenic of 5ppm or greater, and only the one value for gold.

Prospecting and check sampling failed to indicate strong anomalies. Results are shown on Map V. The general outline of an aeromagnetic low is indicated on Map V and in the north central portion of Figure 7. The only significant silver values obtained (3.4 ppm and 1.8 ppm in rock) occur in this area while there is a very slight increase in arsenic values to the north west where some pyrite mineralization was noted. The sample of bleached silicified ryholite which ran 1.8 ppm Ag also ran 160 ppb Au.

A single gold value of 340 ppb in a silt sample occurs between Binta Lake and the aeromagnetic low in the west central portion of Map V. There are no other supporting values in the immediate area.

The aeromagnetic low is part of a larger area of magnetic low to the north and south but it does appear to coincide with outcrops of a pink miarolitic intrusive similar to that on SWAB. The 1977 sampling did not reach this areawhile the 1980 sampling has not yet been run for Mo or U.

Because of the uncertainty of the location of the 1977 sample which ran 160 ppb gold and the occurrence of 3.4 and 1.8 ppm Ag and 160 ppb Au in rock as well as 340 ppb gold in a 1980 silt sample in the same general area it is recommended that additional prospecting be done in this locality. In addition 1980 samples in the vicinity of the magnetic low should be analyzed for molybdenum.





## BOREL LAKE AREA - BRAN GROUP Figure 6

Fracture controlled Pb Zn Cu mineralization occurs north of Cabin Lake within intrusive rocks which are capped by Tertiary age volcanics and sediments. Some high silver and moderate gold values are associated with this mineralization. Silt samples were analysed for arsenic and gold in the area and results are shown on Figure 8. A value of 80 ppb Au and one of 20 ppm As occur in samples from the creek draining the mineralized area at Cabin Lake.

To the north scattered values of 5 to 155 ppm arsenic occur around Borel and Anzus Lakes. Prospecting was concentrated upstream from the 155 ppm value in the vicinity of an aeromagnetic anomaly which appears to outline a medium grained biotite granodiorite. A portion of the aeromagnetic maps is shown as Figure 9 and the 6000 gamma contour is shown on Map VI. The mineralized area north of Cabin Lake appears to be related to a magnetic low within the intrusive.

Prospecting results are shown on Map VI with this report. Check silt sampling above the original 155 ppm value failed to return any significant arsenic values. No gold or silver values were obtained in these silt samples but mineralized float was found in the stream bed. Initial rock geochem values ran to greater than 20 ppm silver in several rock samples and one value of 120 ppb Au was reported. Rock geochemical values are listed in Table III.

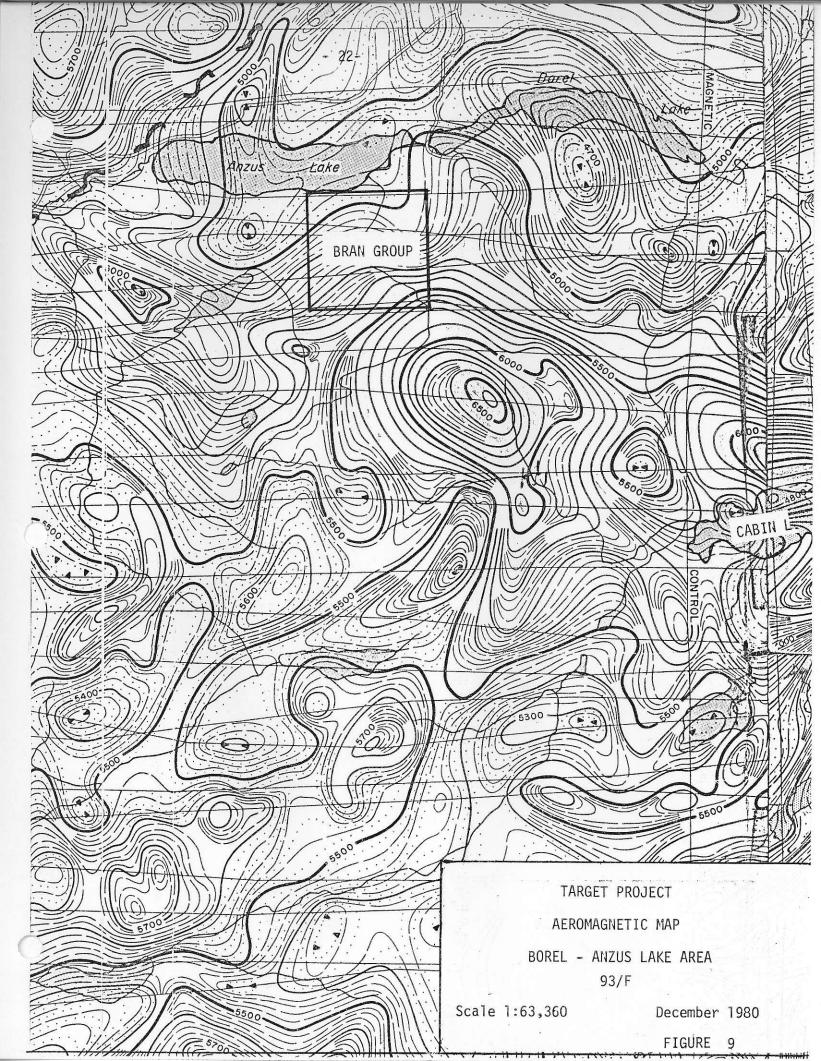


TABLE III

ROCK GEOCHEMICAL VALUES BRAN GROUP AREA

	ppb Geochem			ļ	Assay d	z/Ton		
Sample No.	Location	Rock Type	Au	As	Ag	Au	Ag	
80762	1200 m upstream from road S of Borel Camp	Altered tuff,py	<10	4	1.6			•
763	SW of Borel L.	Basic Vol Brex,py	<10	5	0.1			
764	tt	Rhyolite tuff	<10	5	0.1			
765	H	Chloritic vein	<10	14	0.1			
766		Rhyolite brex,py	<10	5	0.1			
767	W of Cabin L.	Cherty tuff	<10	1	0.1			
768	ii	Silic tuff	<10	1	0.1			
769		Andesite magnetit	e<10	1	0.1			
770	11	Chloritive brex "	<10	1	0.2			
771		Andesite brex	<10	1	0.1			
772	N of Cabin L. Claims	Andesite	<10	1	0.1			
773 ·	NW " " "	Andesite	<10	1	0.1			
80831	Anzus L.	Acid lapille tuff	<10	7	0.1			
832	II	и и п	<10	3	0.1			
841	Cr.SE of Borel Camp	Silic Andesite tuff	<10	1	0.2			
842	1.11 cm south of W end Borel W	Rusty rhyolite,py	<10	1	0.2			
843	1.3 km South of W end Borel L.	H H H	<10	2	0.1			
844	Cabin L. Pb Ag	Acid scoria, py	120	> 20	20		1.2	28
845	11	mg granodionite cpy	<10	1	0.6			
846	ii.	" "ру	<10	50	4.8			

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			ppb Geochem			Assay oz/Ton		
Sample No.	Location	Rock Type	Au	As	Ag	Au	Ag	Zn%
80847	Cabin L.PbAg	Mg Granodionite sph gal cpy	3100		> 20	0.250	5.90	
848	NW of Borel Lake	Silic rhyolite bro	ex 10	1	6.0			•
849	и и и	Rhyolite	<10	. 4	0.8			
73451B	Bran Creek	Andesite/granodio	<10	12	0.1			•
452	11 11	Granodio py chl	<10	10	0.1			•
453	11 11	Dyke silic py chl	<10	2	0.1			
454	11 11	Feld par py gal	<10	24	0.1			
455	13 93	" " py	<10	10	0.4			
456 .	Bran Creek	Calcite sph gal c	py120	70	>20		252.6	4.19
457	11 11	Rhyolite py	20	1	>20		0.32	
458	N. of Bran Cr.	Andesite	<10	5	16			
459	W. of Cabin	L. Vol Brex	<10	, 1	0.1			
460	W. of Cabin	L. Rhyolite tuff	<10	2	0.1			•

Sample 73456B assayed 252.6 Oz/ton and led to staking the 16 unit BRAN group late in the season. Snow prevented any further prospecting at the time of staking.

Examination of 1980 silt sample results show no significant gold or silver values. There is an apparent increase in arsenic values in the two drainages south of the east end of Borel Lake. Values range from 10 to 53 ppm As and there is a single 1.6 ppm value for Ag. Prospecting failed to show alteration or mineralization of interest at the time of sampling. The area might receive further attention if encouraging results are obtained on BRAN group.

A value of 6.0 ppm Ag was obtained from a sample of volcanics north of the bridge at the west end of Borel Lake.

There is a northwest trending fault zone along the creek on BRAN group and mineralization may be related to this structure. It is indicated, on the GSC geology map, to extend to the north west of Anzus Lake. Several high arsenic values in 1977 silt samples are shown in that area (Figure 8).

Soil sampling on BRAN group is on generally high ground possibly above barren volcanics and may be of little use in exploring for mineralization, which may be related to the fault zone in the creek canyon.

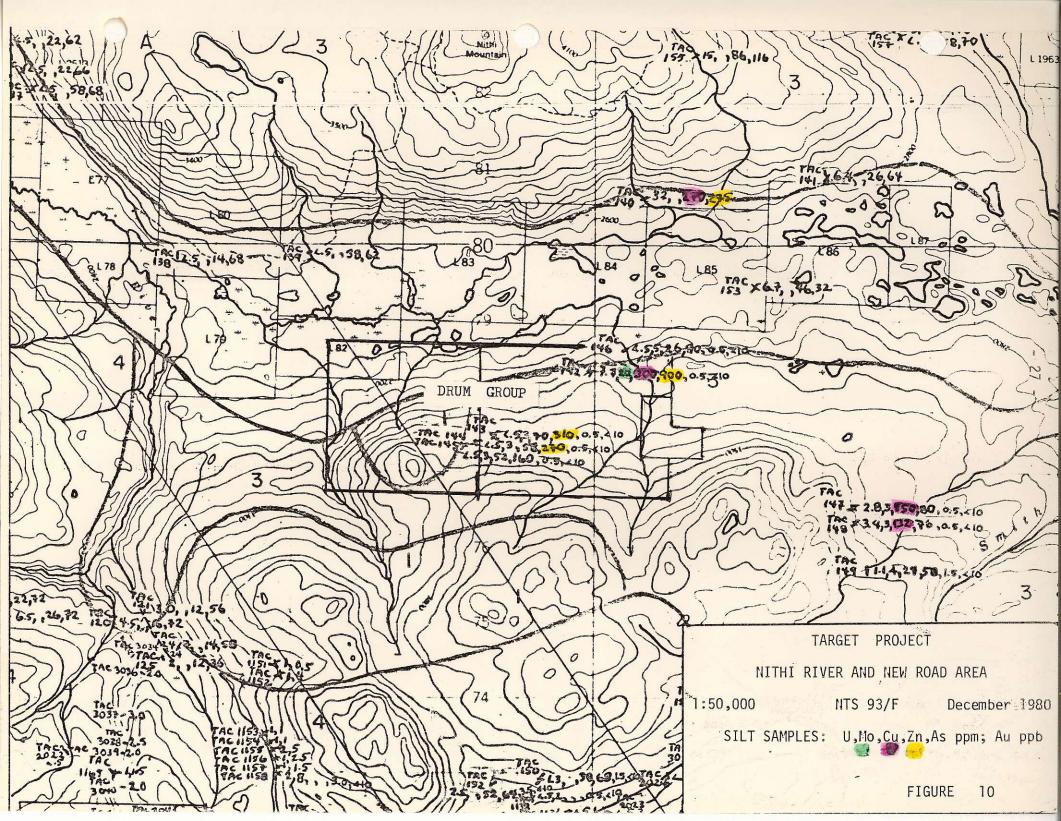
It is recommended that detailed prospecting and sampling be done on BRAN group with some prospecting to the southeast toward the Cabin Lake claims. Additional prospecting should be done along the indicated northwest trend of the fault zone and arsenic anomaly beyond Anzus Lake.

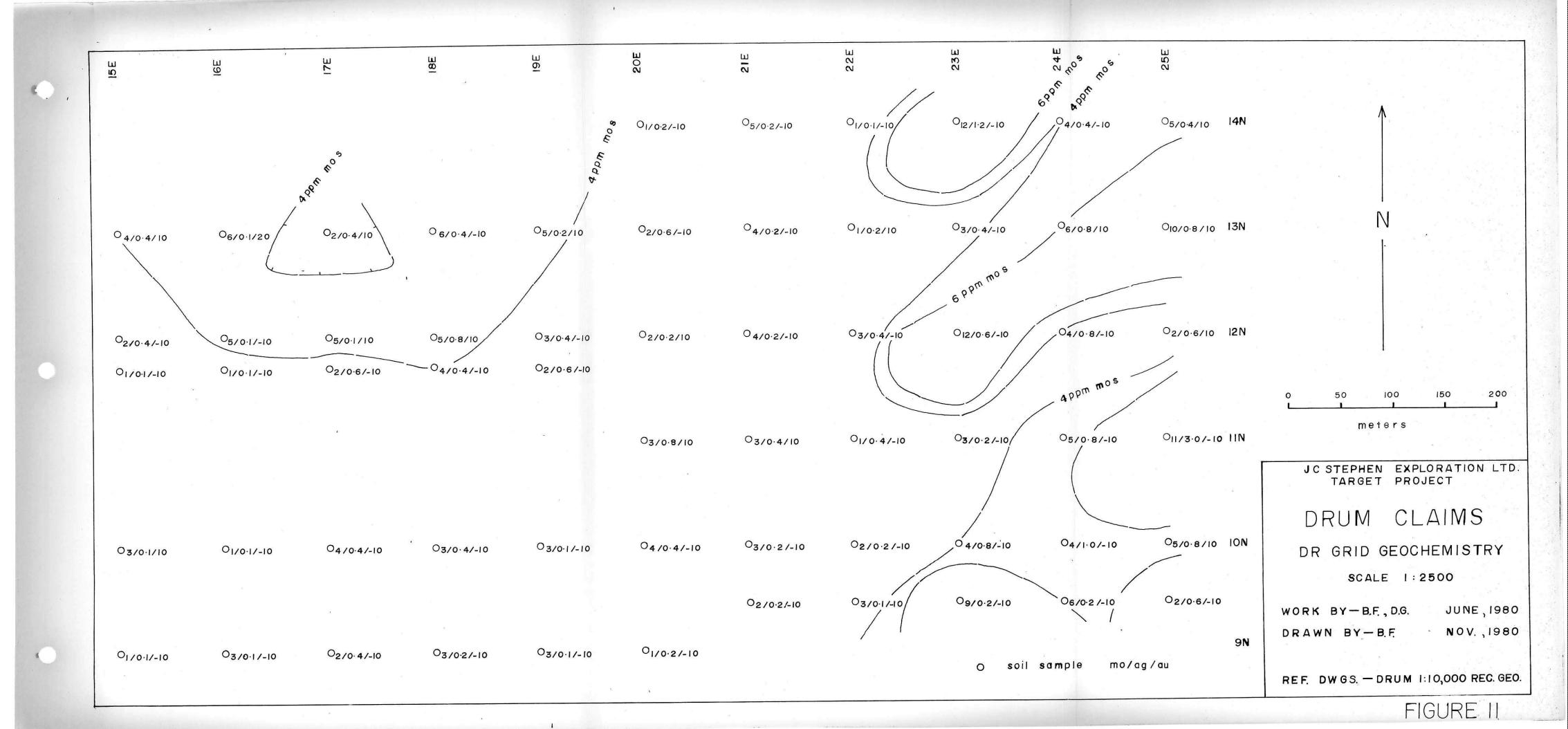
#### DRUM CLAIM GROUP FIGURE 6

Location of the DRUM GROUP is shown on Index Map Figure 6 and on a portion of the regional geochem map Figure 10. New road construction was proceeding in this area and as several silt samples anomalous for copper and molybdenum had been collected in the region further prospecting was undertaken.

Minor molybdenum mineralization was located on the new road and staked. A soil sample grid was established in the vicinity with results as shown on Figure 11. Location of the grid in relation to available geology is indicated on Map VII. Soil samples ran only to a high of 12 ppm Mo while rock geochem values on two samples ran > 250 ppm Mo. These are not very impressive results and no further work is proposed at this time.

Examination of claim records show that the CALEDONIA property, to the west of DRUM, has similar low geochemical results but percussion drilling by Amax encountered some significant values (about 0.10% MoS2) in two or three widely separated holes. Mineralization appeared to lack continuity.





# NIT CLAIM GROUP

 $$\operatorname{\textsc{No}}$$  work was conducted on these claims and they were allowed to lapse.

## BIN CLAIM GROUP

No work was done on this group, which had previously been reduced in size, and the claims were allowed to lapse.

# GREER CLAIM GROUP See Figure 6

Geological mapping, soil sampling and a magnetometer survey were conducted on specific areas of this claim group where previous work indicated mineralization, geochemical results, or structure of possible interest.

Continued logging on the claim group has provided considerable new exposure. Results of 1980 work are negative and no further work is proposed. An assessment report was prepared and the text follows as Appendix II for record purposes.

## SWAB CLAIM GROUP Figure 6.

Proposed percussion drilling on SWAB 2 and 3 to test the U-Mo geochemical anomaly along a coincident magnetic low was cancelled in March due to the moratorium on uranium mining in B.C.

Exploration was conducted during May on SWAB 1 to investigate molybdenum anomalies in that area. Text of the assessment report prepared follows as Appendix 111.

The two detail grid areas soil sampled were those with the greatest density of anomalous molybdenum results in earlier sampling. The anomalies resulting are fairly strong but of small individual extent. No molybdenum mineralization was located on these grids.

The stream anomalies on "Main" and "Small" creeks are located south of the detail grids. No distinct soil anomalies are indicated in the vicinity by preliminary soil sampling. These creeks were prospected with some care. No molybdenum mineralization was located but, particularly on "Small" creek the dioritic float is quite angular and contains pyrite mineralization predominantly along fracture surfaces.

The SWAB group has relatively little outcrop except for some areas in the high central portion of the group. Present information indicates the area is underlain in part by dark green andesitic volcanics possibly of Triassic age. These rocks are extensively intruded by diorite and granodiorite related to the major Topley intrusives in the area. Into this complex bodies of high level quartz monzonite "alaskite" have been intruded. From the aeromagnetic pattern and the topographic geological distribution it is thought there are two or possibly three centres of "alaskite" intrusion.

In the south west portion of the claim group there is evidence of acid porphyry dykes with some pyrite intruded into the volcanics. These may be related to the "alaskite" intrusions. In addition there are indications of rhyolite either as a flow or high level intrusion which may be a late phase of the alaskite sequence. Some bleaching and fine pyrite mineralization occurs. These phases are in the vicinity of the main uranium. molybdenum anomaly and together with the coincident magnetic low still constitute the best target on the property.

In the northeast portion of the property (North west corner of Detail Grid "A") restricted remnants of quartz pebble conglomerate occur as float and minor outcrop. These are probably of Tertiary age. Nothing is known of their possible extent.

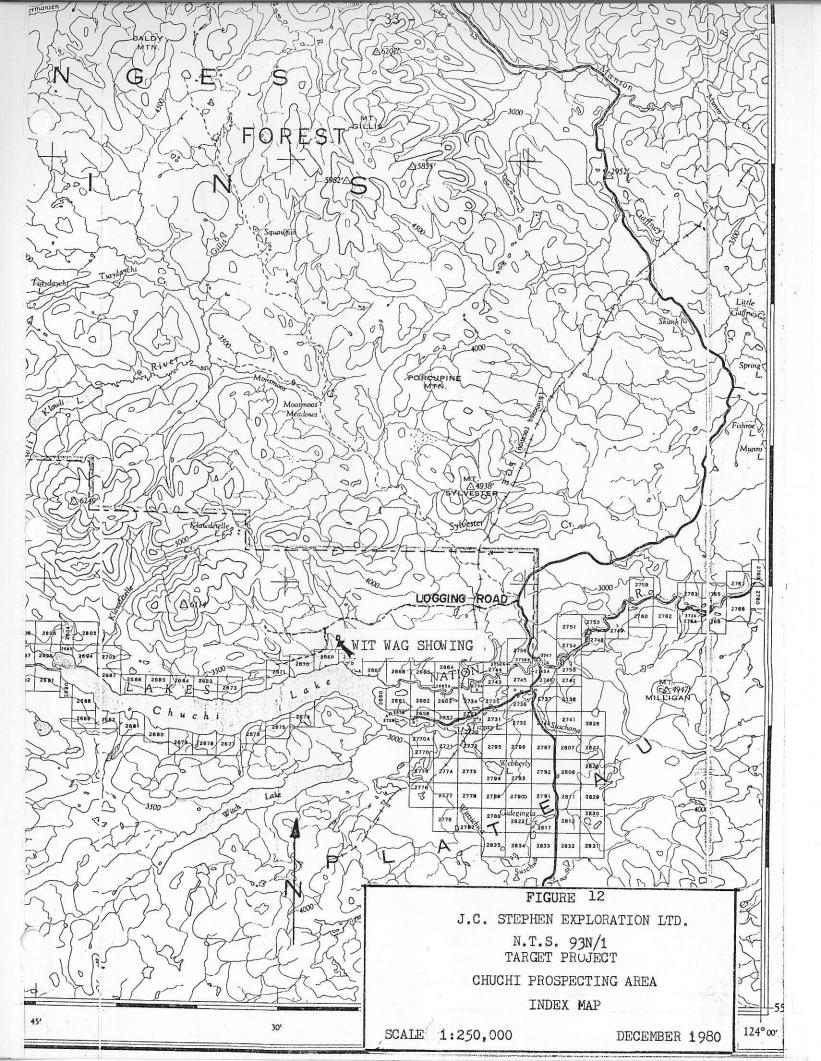
High level intrusions, the alaskite intrusions on SWAB group, should be a highly differentiated late phase of the intrusive sequence in the region. They are probably late Cretaceous to very early Tertiary age and may be the sub volcanic equivalent of some of the rhyolites so widespread in the region. In general these late differentiates should be rich in fluorine, boron, tin, tungsten, molybdenum and uranium. Geochemical results from soil and silt sampling indicate anomalous values for molybdenum, uranium and fluorine. Fluorite is visible in the alaskite but no molybdenum or uranium mineralization has been identified. Scheelite has been seen rarely on pyritized fractures in diorite in the area. No boron rich minerals have been noted and no tests have been made for tin content.

Four possible courses of action are indicated for SWAB group.

- (1) drill the main alteration and anomolous zone on SWAB 3 for geological and possible economic information.
- (2) I-P. and percussion drill the area of pyrite bearing fractures on SWAB 1. Possibility of economic mineralization is thought to be lower than in (1).

- (3) option the property to Placer or Amax as both companies have shown some interest.
- (4) drop the claims.

It is recommended that the course (1) be followed unless refused by the B.C. government. If significant uranium values are found work would be stopped but solid evidence would be at hand to justify holding the property. The budget for percussion drilling proposed for early 1979 was \$19,000. That money was diverted to general exploration after spending approximately \$6,000 on SWAB 1. A similar budget is proposed for early 1980 to test the main anomaly with as much drilling as can be accomplished with that money. One hundred units can now be grouped in B.C. and assessment work would be filed from this expenditure with the maximum additional allowance (30%) to be drawn from the P.A.C. account to hold the claims for the maximum time. The group would be reduced from 80 to 60 units by dropping some of the most westerly units.



## MAP SHEET 93N

#### CHUCHI LAKE AREA

Prospecing in the Chuchi Lake area had been intended to investigate the easterly trending volcanics which were known to host the WIT-WAG Pb Zn Ag showing north of Chuchi Lake and to contain a few small chalcopyrite occurrences south of Chuchi Lake and east of Witch Lake. A new logging road network in the area provides reasonably good access to certain areas.

The crew accomplished little in the way of prospecting. Rock exposures along the roads were examined and the WIT-WAG showing was visited.

## WIT-WAG SHOWING

The following descriptions are quoted from a report by Nels Vollo datedOctober 21, 1967.

# "History and Previous Work

The lead-zinc showing on the No. 1 group was discovered and staked by Ted Taylor, prospector, in 1964. He optioned the ground to Van Metals Exploration who carried out an electromagnetic survey, did more staking and in turn optioned it to the Noranda Exploration Company. In the fall of 1965 Noranda drilled five short holes on the mineralized outcrop. They also soil sampled the No. 1 group for copper and zinc and ran a Crone type electromagnetic survey.

Noranda Exploration subsequently dropped the group and it was optioned to Royal Canadian Ventures late in 1966. The No. 2 group was staked in the spring of 1967.

The area has been mapped by the Geological Survey of Canada and a map, 876A Manson Creek, published on a scale of 1" = 4 miles. Aeromagnetic maps on the scale 1" = 1 mile are also available. Petrology

The volcanics can be roughly divided into two groups; an acid to intermediate series north of the mineralized zone, and an intermediate to basic series south of the mineralized zone.

The mineralized zone is a bed of volcanic tuff or tuffite up to about 90 feetthick. It is frequently thinly, though irregularly, banded or bedded and is composed mainly of carbonates and cherty quartz. It commonly contains a little disseminated sphalerite and galena, but in some areas becomes strongly fractured and heavily mineralized with barite, sphalerite and galena.

Red andesite occurs immediately south of the tuffite. It is dark reddish brown, vesicular in places, and contains 1 - 2 mm feldspar phenocrysts in a red felsic matrix.

A flow of <u>porphyritic andesite</u> overlies the tuffite. It is dark brown, amygdaloidal, and contains abundant feldspar phenocrysts or fragments up to 5 mm.

The <u>rhyolite</u> is grey, fine grained and quite massive. It contains fine hornblende and feldspar phenocrysts in a dense felsic matrix.

The <u>agglomerate</u> is quite coarse with darker fragments in a lighter coloured acid volcanic matrix.

The <u>trachyandesite</u> is grey, massive, with fine pink, lathlike phenocrysts of orthoclase in a dark matrix.

<u>Latite</u> is grey, fine to medium grained, massive, with 1 - 2 mm phenocrysts of both orthoclase and plagioclase in a grey matrix.

Trachyte was noted in one outcrop in the northwest part of the group. It is pink, fine to medium grained and quite massive.

<u>Basalt</u> occurs in two outcrops west of the showing. It is black, fine grained, amygdaloidal, with sparse light coloured feldspar phenocrysts.

Hornblende monzonite occurs in one small outcrop area. It is medium grained and composed of roughly equal parts of feldspar and hornblende. This may represent a dike or an extension of the Hogem batholith. Individual outcrops were small, however, and they could possibly be large erratics.

## Mineralization

Sphalerite, galena, greenockite and barite are present in variable amounts in the tuffite and disseminated in the overlying porphyritic andesite. Silver is present in amounts up to several ounces per ton, but no silver mineral was identified. Drilling by Noranda indicated one small pod of about 20,000 tons averaging 7.5% combined lead - zinc."

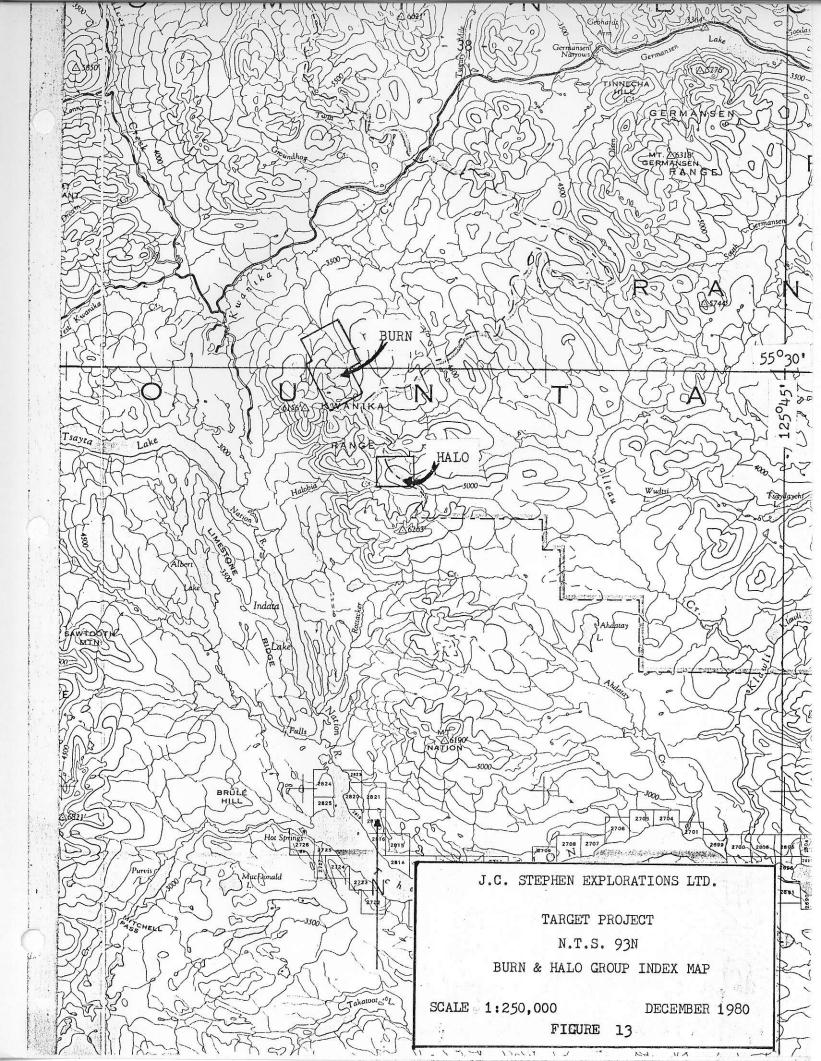
The following is a list of rock geochem results for samples taken in the area.

TABLE IV

Rock Geochem Values - Chuchi Lake Area

		Values			ppm		ppb
Sample No.	Location	Rick Type	Cu	Pb	Zn	Ag	Au
80891 B	6km W.of Main Hwy	Tectonic?breceia	72		92		<10
892		Tuffaceous metase	d52		56		<10
893		Rusty Andesite	46		54		<b>&lt;</b> 10
894		Rusty Silic Zone	36		20		<10
· 895		Rusty Rhyodocite	42		68		<10
896	N.side of river at road	Rusty Andesite	18		96		<b>&lt;</b> 10
897	N.side of river	11 11	32		54		<b>&lt;</b> 10
898	S.side of river at road	II II	52		84		<10
899	Main logging road 108.35 km		78	34	124	2.8	<b>~</b> 10
900	WIT WAG	Barite + quartz	54	385 >	4000	5.4	180
77401	WIT WAG	11 11	46	700 >	4000	3.6	60
402	WIT WAG	Siliceous miner- alized zone	18>	<b>&gt;</b> 4000>	4000	3.0	20
403	WIT WAG		18	2800>	4000	<b>&gt;</b> 20	<b>~</b> 10

Location of samples is uncertain except that they were taken along the logging road shown in Figure 12, at the WIT WAG showing and, presumably, on the north and south sides of the Nation River on the main road.



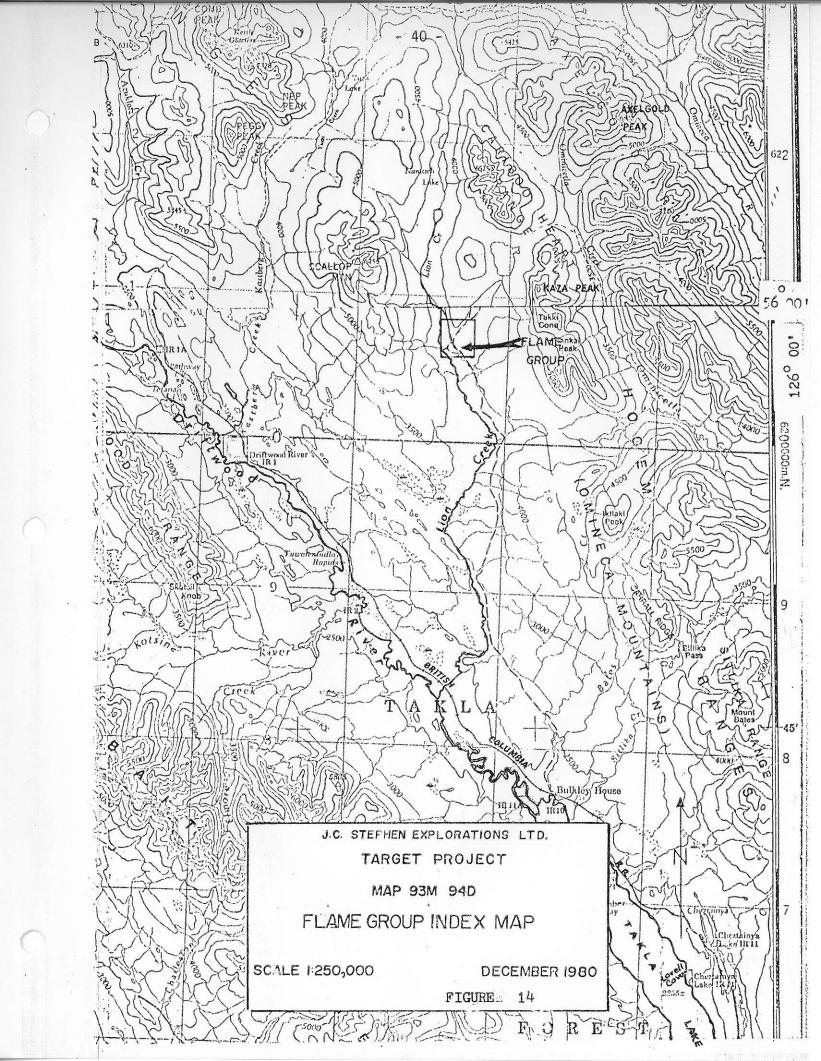
## HALO CLAIM GROUP See Figures 6 and 13.

Molybdenum and copper soil sample anomalies occur within the Hogem batholith five miles south of BURN group. Geochemistry and geology are similar to that on BURN group. Check profile soil sampling, geological mapping and a magnetometer survey were done with results described in the assessment report included in this report as Appendix 1V.

There is an apparent correlation between local magnetic lows and geochemical anomalies. No significant mineralization was found during mapping.

The following steps are recommended:

- (a) investigate whether IP and drilling results of the 1973 program might be available from UMEX.
- (b) make an examination of the magnetic low areas for possible float etc before consideration of additional work on the property.



## MAP SHEET 93 M

# FLAME CLAIM GROUP Figures 6 and 14

Twenty units were staked north of Takla Lake to cover an area where earlier copper exploration had located showings which . were reported to contain gold values.

The existing showings were sampled and the results, together with some geology, are described in the assessment report provided here as Appendix V. Values do not indicate that further work should be done on these showings.

At a meeting December 9, Stephen suggested that further prospecting should be done in the vicinity of the present showings. Subsequent review of 1980 work showed that the crew had done a fairly comprehensive job including rock geochemistry outside the claim. This additional data was added to the assessment report before filing.

No further work is recommended.

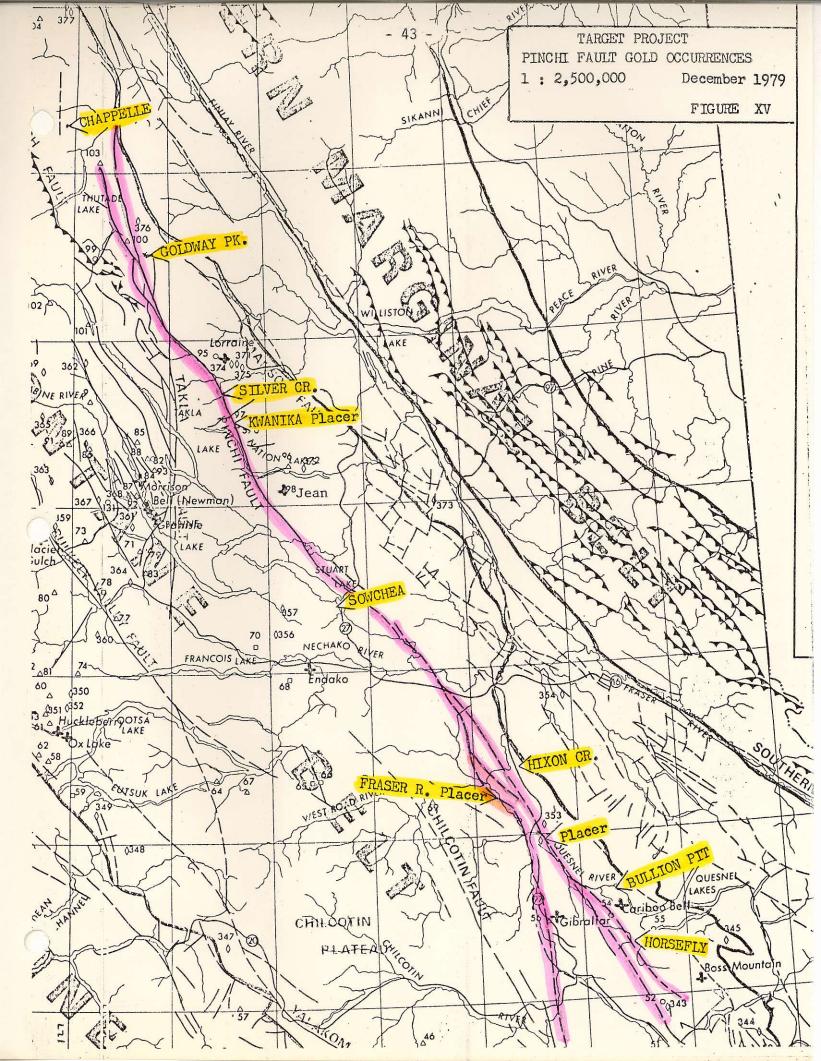
# PROGRAM PROPOSED FOR 1981

The 1979 Annual Report included a map Figure XV Pinchi Fault Gold Occurrences to indicate location of the various placer and hardrock gold districts between Horsefly and Chappeile. This figure is repeated here for illustration. Part of the intended 1980 program had been investigation of the Silver Creek area for possible Carlin type gold occurrence. This is considered to be an area worthy of investigation.

	The following program items are proposed:	
(1)	percussion drilling on SWAB	\$19,000.
(2)	detail mapping and rock geochemistry	
	on BRAN group for Ag Au	8,000.
(3)	further prospecting and sampling SE	
	and NW of BRAN group for Ag Au	7,000.
(4)	additional prospecting on the 160 and	
	340 ppb Au kicks north east of Binta Lake	3,500.
(5)	prospecting in the Ominicetla - Silver	
	Creek areas for Au	7,500.
(6)	examination of HALO Magnetic anomalies	
	and short reconnaissance of Wolverine	
	Complex using new logging roads	5,000.
	Total	\$50,000.

Respectfully submitted, J.C. Stephen Explorations Ltd.

0.C. Stephen



# TARGET PROJECT #117 CLAIMS REGISTER 1980

A copy of our current claim records follows. Processing by the B.C. Dep't. of Energy etc. is so slow that records are difficult to keep. A copy of the last received notice is provided to show current time lag.



File No.: 166-0mineca

December 11, 1980

cc: Gold Commissioner: Smithers, B.C.

Dear Sir:

Re: SWAB Mineral Claims

Geochemical, Geophysical, Geological Report '80-#387-#8164

Owner: J.C. Stephen

This is to advise that the above-noted report(s) has (have) been approved for assessment work credits for the total amount of \$.5,9.64.00

Statement(s) recorded July 14/80 request(s) the following:

To be credited to P.A.C. account(s)

\$ 1,964.00

To be withdrawn from owner's P.A.C. account

\$ NIL . . . . .

To be applied to claim(s)

\$ 4,000.00.

BALANCE NOT USED

\$ NIL. . . . .

Please note your records and your semi-monthly return to show the work numbers issued.

Yours very truly,

R. RUTHERFORD,

Chief Gold Commissioner.

cc: J.C. Stephan

REGISTER OF CLAIMS

TARGET PROJECT #117

LIST OF CLAIMS

TARGET PROJECT

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GREER 4. 1266 20 July 27/78 ] July 27/80 Nil (RECORDS) HAVE NECESTORD (JET 28/20)   July 27/81   July 27/80 Nil (September 20)   July 27/81   July 2				ii ·		1									-    - - - - - -	╢╾┼┼┼┼
39   Expres DATE ASSUMED 70 BE JULY 27/81		GREER A	4 1266	20	July 27/78		,	July 27/80	Nil	KEGO	prob IHAVE	JET BE	EL RECE	1 VED 145 48/80)		#-+++
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#### LIST OF CLAIMS

CLAIM	RECORD	NO. OF	RECORD	GROUPING W	ORK RECORDED	EXPIRY	P.A.C.
NAME	NUMBER '	UNITS	DATE	& DATE	TYPE YEARS	DATE	DEPOSITS
LAKE 1	1262	20	July 27/78		LAPSED		
HALO 1	2651	20	March 21/80	2 Yo Be	(RS ADSESS FILED	мент шов	ZK REAI
FLAME 1	. 2650	20	March 21/80		RS ASSESS FILED	Менчт Шол	zκ β₌aı
DRUM 1 DRUM 2	2857 2858	20	JULY 4/80				
BRAN 1	NOT YET RECEIVED	16	NOV. 14/80				
					3		

