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TRIFCO MINERALS LTD.

FILMED

WIM & WIM-TA CLAIMS  
CARIBOO MINING DIVISION

ASSESSMENT WORKS FOR 1988 - 1989

LATITUDE

LONGITUDE

53° 59' 20" N

123° 51' 30" W

NTS - 93A/13

OWNERS - TRIFCO MINERALS LTD.

OPERATORS - R. TRIFAUX & TRIFCO MINERALS LTD.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,118

WIM & WIM-TA CLAIMS GROUP

ASSESSMENT REPORT 1988 - 1989 SEASON

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1:0    SUMMARY

Recent exploration conducted in 1987 and 1988 on the above group of claims which is situated at approximately 40 kms south-east of Quesnel, has identified several bodies of talc and dolomitic - talc in the areas of Creek No 2 and 3 (see map # 6).

Furthermore, two trenches of approximately 200 m in length have been done to have a cross section of the terrain at the lower level of Creek No 3 itself. They are situated 25 m north of the Swift River Forestry Road near Creek No 3. This year, 1988-1989 season, seven huge pits have been dug to establish a new reserve of talc in the same area of the trenches. One pit has been dug south of the Forestry Road No 1300.

Petrographic studies of the talc bearing rocks and the X-Ray Diffraction confirmed the primary objectives to establish the talc presence, estimate it's abundance, the grain size and mode of occurrences in the rocks. A report is included with the 1988-1989 report. The same report results apply with the excavations done in 1988-1989.

This year also some huge boulders have been encountered in Creeks No 1, 2 & 3.

2:0 INTRODUCTION

2:1 Terms of Reference

This report is based on the works done from March 27 to April 3, 1988. Also on the works executed from August 3 to 11 and from August 20 to 25, 1988. Trip back from Quesnel on August 26, 1988. A 100 pound sample of talc in the vicinity of Creek No 3 has been taken for the processing by Bacon, Donaldson & Associates Ltd. from Vancouver. The talc will be processed for concentration of sulphides to know the contents of Ni, Co, Cr, Fe, Au, Pt, Pd Cu & Ag.

At the beginning of the year, 7 test pits were dug with a backhoe and a caterpillar for access to the ground to be dug. For the first time cores from the drilling at the Do-Do Creek have been analyzed for Ni, Co, Ag, Pb, Cu & Au etc. Digging in Trench No 2 near Creek No 3, came with samples of talc with 4 to 5% sulphides, a marked increase which is higher than in the DoDo Creek.

Quartzitic rocks, containing sulphides have been discovered near Creek No 1 - on the left bank. Talc at 4 to 5% sulphides have been analyzed by Ores Laboratories Ltd. and petrography has been executed. Vancouver Petrographic also established thin sections, also polished sections on the ores of talc from the samples taken in the month of August. Vancouver Petrographic established the presences of the minerals Pyrrhotite and Pentlandite in the Creek No 3 ores and on the plateau north of Road No 1300.

2:0 INTRODUCTION

2:1 Terms of Reference (continued)

Bacon, Donaldson & Associates Ltd. processed our talc ores and established a concentrate of the sulphides which has been successful in determining the values of the ores in Ni, Co, Cu, Pb, Zn, Ag. (Analyses done by Chemex Laboratories Ltd. Also the concentrates have been analyzed and assayed by Chemex Laboratories Ltd., Min-En Laboratories Ltd. and by Sherritt Gordon Mines Ltd.

2:0 INTRODUCTION

2:2 Property Description / Claims Data

Trifco Minerals ltd. hold the Wim-Ta claim group which comprises 10 contiguous one-unit and three two-units claims (Map No.M93A/13W) The claims are located in the Sovereign Creek area in the Cariboo Mining Division at 52° 59' 30" N, 121° 53' 30" E (NTS Map sheet 93A/13W). Several claims posts were inspected by the geologists of Nevin, Sadlier-Brown, Goodbrand Consultants Ltd. and in their opinion staking conforms to the Mineral Act Regulations for British Columbia. Pertinent claim data on the subject property verified at the Mining Recorder's office is summarized as follows:

Table I                      Claim Data

Claim Name	Record No	Units	Expiry Date	Recorded owner
Wim 1	418	1	June 8-99	Trifco Minerals Ltd.
Wim 2	334	1	May 12-99	" " "
Wim-Ta 1	335	1	May 12-99	" " "
Wim-Ta 2	338	1	May 16-99	" " "
Wim-Ta 3	461	1	July 25-99	" " "
Wim-Ta 4	462	1	July 25-99	" " "
Wim-Ta 5	419	1	June 8-99	" " "
Wim-Ta 6	463	1	June 25-99	" " "
Wim-Ta 7	6869	2	June 26-99	" " "
Wim-Ta 8	6868	2	June 26-99	" " "
Wim-Ta 9	7082	1	August 12-99	" " "
Arne	6893	2	July 10-99	" " "
Tom	4766	1	April 14-99	" " "

NOTE: All the claims have been transferred legally to Trifco Minerals Ltd.

2:0 INTRODUCTION

2:3 Access & Physiography

The access to the Wim-Ta, Arne & Tom claims group is by way of the Swift River Forestry Road No 1300, which leaves southward from Highway 26 at a point 32 km east of Quesnel. The Forestry Road is an all weather, secondary gravel road that traverses the southern portion of the claims, crossing Do-Do Creek at 16 km, and also crossing Creek No 3 between Km 16 and 17, Creek No 4 between Km 17 and 18. The talc occurrences in the Do-Do Creek, Creek 1, Creek 2 and Creek 3 can be reached on foot from the main road by trails which are very well established. No permanent facilities exist on the group at this stage. The property is on the south flank of the Sovereign Mountain, between 1050m and 1350m (3500 - 4500 feet) in elevation. Local relief is 650 m (2100 feet). Mountains are generally rounded with moderate slopes forested predominantly by fir and pine. Perennial growth is thick, particularly in shallow moist depressions common throughout the property. Bedrock is mantled by overburden except in the creeks which results in poor outcrop conditions. Glacial drift blankets exist in the low-lying southerly portions of the claims.



2:0 INTRODUCTION

2:4 Exploration History

The existence of the talc at the Do-Do Creek ultramafic and in the metamorphic has been recognized since 1960 when it was discovered by R. Trifaux. In 1969, R. Trifaux explored the ultramafic and Iso Explorations Ltd. and Canistan International Ltd. took some interest on the property. The explorations were directed to base metal (Ni, CU, Co, Cr, Fe) and also on precious metals (Au, Ag, Pt, Pd,) Industrial talc mineralization was observed at the time. More recently, prospecting, trenching and diamond drilling by Trifco Minerals Ltd. has extended known talc occurrences across much of the Wim-Ta group.

Exploration during June 1986 focused primarily on the Do-Do Creek area. A work program involving 91m (300 feet) of diamond drilling, geological mapping and prospecting and sampling was conducted in this vicinity in an attempt to delineate the extent of the talcose serpentinite unit exposed in the Do-Do Creek. Work was conducted as partial fulfillment of the recommendations of an earlier report by NSBG (Fairbank, 1985). Additionally, a brief geological evaluation was performed at talc showings of Creek 1, Creek 2 and Creek 3, although the assessment was of a cursory nature.

2:0 INTRODUCTION

2:5 Current Works (Synopsis)

Property Map

Geology and Talc occurrences

Pits excavated in March 1988

Because of the exceptionally good weather and the accessibility to the claims facilitated by the snow removal on the Forestry Road, we went to execute the digging of small pits at the lowest levels of the known elevations north of the 1300 Road. Seven pits were opened to know the approximate depth of the talc which have been altered and reduced to powder with the times.

The depths were measured, the talc physically analyzed and a map produced showing the extent of the altered talc and new reserves were obtained by this type of work. (See map No.2)

In each pit some talc boulders were present and have been cut to see the presence of sulphides. Some of them were deeply altered and oxidized by the presence of minute sulphides in the talcs. The north west pit was in sand, no boulders of talc were recovered. We believe the sand came from Creek No 3. (See sketch map for locations of pits and talcs). The Pit No 7, executed in the same direction of Trench No 1, dug in 1987 discovered a multitude of huge boulders, all containing sulphides and permit the recognition of the presence of the talc in place a few meters away to the north.

2:0 INTRODUCTION

2:5 Current Works (continued)

After our visit to Sherritt Gordon Mines Ltd. we decided to take talc samples in the rocks for Ni, Co content. In August 1988 we made the following works.

1. Survey for the presence of talc from pit south of Road No 1300 to the boulders discovered in the first pit, north of the same Road 1300.
2. We took samples in the altered talc on the plateau.
3. We took samples in the rocks in the trenches No. 1 (Creek No 3).
4. We took samples of talc in Creek No 1. (with sulphides)
5. We took samples of talc in Creek No 2. (with sulphides)

Except for the altered talcs, all the other samples were taken in rocks. All of them contained sulphides in which we knew the presence of Pentlandite and cobaltite (also Au, Ag, Pt, Pd) The total weight taken with the above samples came to 50 Kgs approximately. In each pit the thickness of the talc was measured, distance between the pits, the orientation and the distances from the main road to the left bank of Creek No 3 were taken.

2:0 INTRODUCTION

2:5 Current Works (continued)

By the thicknesses of the talc discovered in the trenches in 1987, and this year in the pits, also by the presence of huge boulders which seems to be in place in the trenches and the vicinity of the talc beds in Creek No 3, we induced that the talc formations are not just present in Creek No 3 but they are present on the plateau south of the left bank of the same creek.

Not only did we find talcs on the plateau north of the road, but we found talc south of the main road to approximately 25 m from the south border of the said road. Boulders in talc pits, boulders in the trenches, boulders of talc (huge) in the cut of the Road No 1300 suggest the talc in place is close by.

We calculated new reserves based on what we have discovered, not on assumptions. (See calculations of talc reserves by R. Trifaux)

See sketch No 3 & 4 with view in plan, cross section, and volume of talc encountered.

3:0 GEOLOGY

3:1 Regional Geology

The property is underlain by three main geologic units.

(Figure 1) i.e.

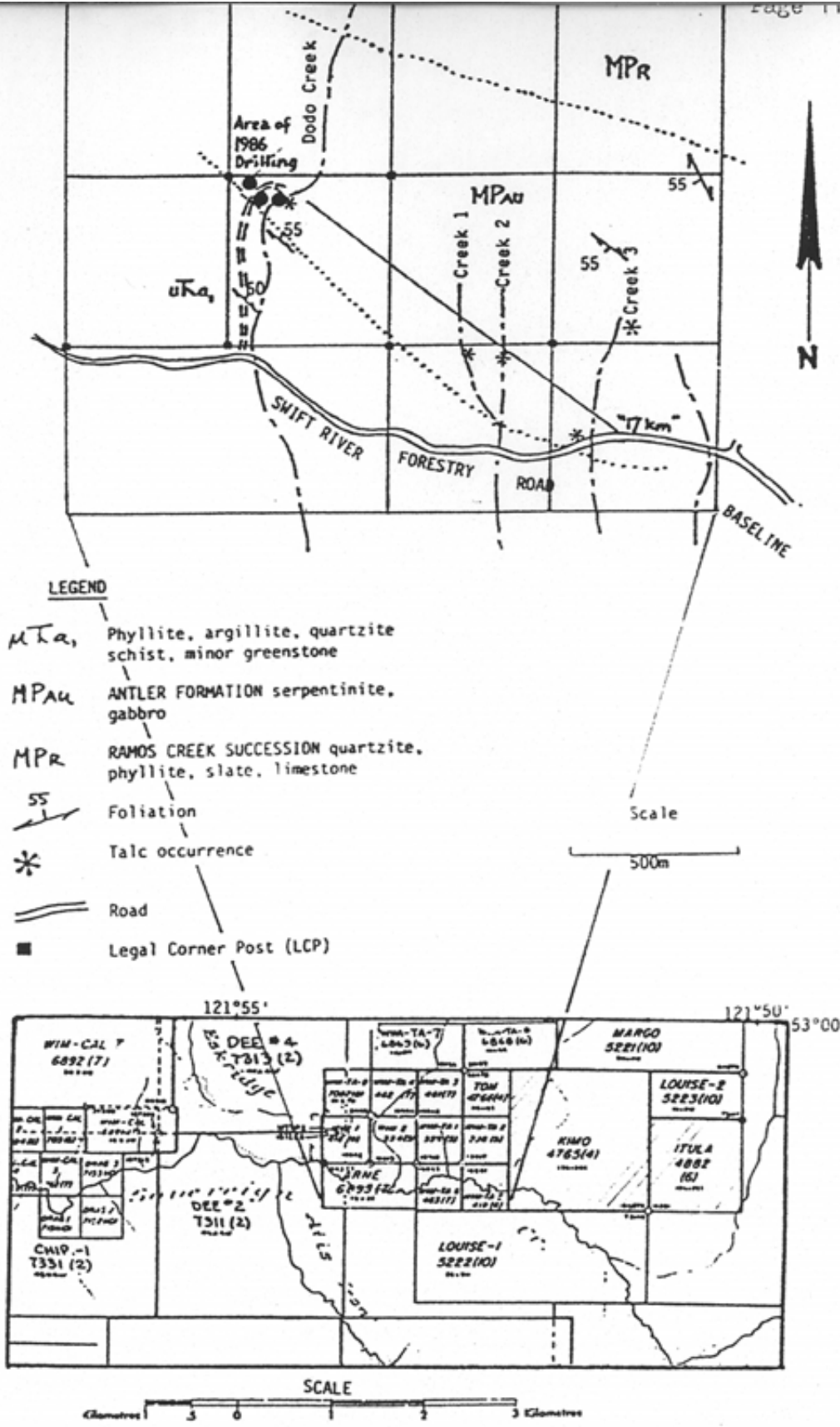
(a) Upper Triassic Phyllite, argillite, quartzite, schist and minor greenstone (UTal) best exposed along Do-Do Creek above (north) of the road.

(b) Antler Formation Serpentinite and sheared mafic rocks. (MPAU) which are locally talcose.

(c) Ramos Creek Succession (MPr) Olivine and micaceous quartzite, phyllite slate and limestone in the northern upper reaches of the property.

The stratigraphy generally trends west/north-west and dips south-west. Also complex structures are evident from place to place on the claims. Skarn, carbonate schists, grit south of talcose, granitic rocks south of talcose in Creek No 3 and 4 etc.

Folded graphitic phyllite at the bottom of the claims strikes  $120^{\circ}$  -  $145^{\circ}$  and dips northward contrary to the regional trend. These relationships indicate that additional folded structures occur northward towards the Do-Do Creek talc occurrences in order for strata to be in proper sequence and that thickening and/or repetition of beds occurs locally (quote from S. Croft, Geologist, report of August 1986)



As of 4 July 1986

**Figure I**  
**Wim Wim-Ta Group of Claims**  
**Sovereign Creek area**  
**NTS 93A/13W**  
**Regional Geology & Location of**  
**Main Geological Units**

3:0 GEOLOGY

3:2 Local Geology (Talcoses)

In the regional geology, under item B - Antler Formation, serpentinite and sheared mafic rocks which are locally talcose, are underlined. S. Croft, Geologist, signaled in his report done in August 1986, four widely separated areas of talc alteration along a 1 kilometer linear trend which had been identified as:

[1] Do-Do Creek talcose serpentitized ultramafic

[2] Creek No 1 and Creek No 2 platy talc float

[3] Creek No 3 platy talc and float

[4] Swift River Forestry Road talc - carbonate schist boulders

Of particular interest he showed the "platy" steatite occurrences at Km 17.2 on the Swift River Road and in Creek No. 3.

Over 16 pits (hand dug) in the area, has identified approximately an area of 3000 m<sup>2</sup> containing talcose schist in bed-rock and angular boulders. Also S. Croft, described the different qualities of talc in the area from the talc of the Do-Do Creek. These talc containing 80 - 90% grained material with up to 5% of sulphides for volume. We prospected all the area in Creek No 1, 2 and 3 and the local geology of the entire surface from Creek No 1 to Creek No 3 is talcose. Trenches dug in 1987, pits dug in March 1988, samples taken for metallurgy confirm the finding of the geologist on a more extensive surface than first seen by Mr. S. Croft.

3:0    GEOLOGY

3:3    Samples Location - Talc Ores

Plan No 2, shows the exact locations of the samples taken during the prospecting season of 1988-1989.



3:0    GEOLOGY

3:4    Nature of Samples

All the samples taken in Creek No 1, Creek No 2 and Creek No 3 are platy talcs containing a certain percentage of calcium. The contents of talc reached from 65 to 85% talc. Also the contents of sulphides vary from 3 to 5+% with nickel, cobalt, precious metals, iron and chrome. All the samples taken in the three areas have been taken in talc in place. Several samples have been taken in a quartz monzonite which has been located in Creek 1 and in Creek 4.

The sketch maps show all localization of the samples of 1988-1989.

Petrographic reports from Orex Laboratories Ltd. and Vancouver Petrographics Ltd. are included with this report.

3:0    GEOLOGY

3:5    Petrographic Reports on ores - Vancouver Petrographics Ltd.

Author - John Payne, Geologist, P.Eng.

Trifco Minerals Ltd. asked for the petrography of the talc ores in Creek No. 3 on the plateau situated on the left bank and especially for the minerals containing the Nickel, Cobalt, Pyrites, Chrome and Iron.      The report established by Mr. Payne are giving the results on 2 types of rocks: A - the ultrabasic and B - the mafic rocks. The ultrabasic belong to the Cariboo claims and the mafic to the Cascades claims.

A - Cariboo claims (Wim & Wim-Ta) - ultrabasic

We know that the assays done by Chemex Laboratories Ltd. and Min-En Laboratories Ltd. contained from 1.3 to 1.9 nickel and 100 ppm+ of cobalt and that some talc patches were deeply altered. This is why the petrography shows alterations to limonite/hematite.

The presence of Pentlandite has been definitely revealed which corroborates the assay results in nickel. All the samples submitted by Bacon, Donaldson & Associates contain:

6 samples - Pyrite

6 samples - Pyrrhotite

4 samples - Pentlandite

4 samples - with Chromite

2 samples - with Ilmenite

3:0 GEOLOGY

3:5 Petrographic Reports on Ores - Vancouver Petrographics Ltd.

(continued)

Pyrrhotite and Pentlandite is the sulphide association which is present for the nickel. Also chalcopyrite exists as inclusions in pyrites in a few samples and also is associated with pyrrhotites. Magnetites are seen in rounded silicate grains.

See Report attached: Vancouver Petrographics Ltd.

3:0 GEOLOGY

3:6 Graphitic schists - DoDo Creek and analyses

Reference Map No 7

Comments on results obtained by the analyses:

252 analyses on 13 samples have been done by Bondar-Clegg Laboratories, in the falls of the DoDo Creek. The rock formations in the falls are a mixture of Calcium silicates, Calcium carbonates, Black schists with sulphides.

The presence of the sulphides exist in all the schists encountered, sometimes as high as 6% in the rocks. In the fine textured graphitic schists, the size of the sulphides is lower than in the schists. Gold is not outstanding, three samples above the anomaly threshold of 10 ppb, but it indicates the presence of the metal in the environment. Silver is low in general. Arsenic is very low and inconsequent. Cobalt as usual is present with the gold. Cu is well represented at the bottom of the falls with 81, 81, 130 and 178 ppm. Mo is not anomalous.

Nickel is becoming quite consequent going up in the falls, the last samples with 1583 ppm or 3#6 per ton. Also the Cr is higher going up in the falls. Lead is anomalous at the bottom and is also present in the middle of them, but disappears on the top showing different geologies. Mercury is quite anomalous all over

3:0    GEOLOGY

3:6    Graphitic schists DoDo Creek and analyses (continued)

the falls but diminishes at the top. Barium is definitely anomalous from the bottom to the middle of the falls with a high of 3100 ppm.

The exploration done in the falls is not negative, and we didn't analyze the rocks for graphite. We plan to do the graphite formation geochemical survey in 1989.

The sampling works have been done on the two faces of the canyon.

The graphitic schists have been analyzed for the graphitic carbon quite a while ago and we have 8.29% carbon in the formations. The graphitic mines which are opening in Ontario and Quebec start at 7% carbon graphite in their ores. Graphite is preferred to carbon on the grounds of purity, since impurities in a baked carbon anode could contaminate the pure metal produced.

The electrolytic method of manufacturing magnesium and aluminum is very similar, again high purity graphite in the graphite cathodes (8 inches in  $\phi$  x 9ff long) is preferred to pure baked carbon.

3:0    GEOLOGY

3:6    Graphitic schists DoDo Creek and analyses (continued)

The electric shell furnace electrodes are the second largest user of manufactured carbon and graphite after the aluminum industry. The main demand is for graphite electrodes for 3 phase furnaces - the type of steel accounts for 14 of the world steel production. The Canadian steel mills are switching to the electric furnaces now. The uses of graphite in casting moulds is consequent and also for hot pressing with melting point above 1800<sup>o</sup> centigrade.

Grinding wheels, dressing sticks, diamond drill core moulds are using graphite. Commercial graphites are considered to be chemically inert - the special coke-based graphite. Coke-based graphite purified, densified, are used for electrode grade on chemical applications. One of these is gaseous oxidations etc. It is also used in heat exchangers (in extended tubes) in graphite furnaces, graphite resin systems, in resistors, in solid fuel rockets near the expansion cones and the ignifiers in rocket motors etc.

See Bondar-Clegg geochemical lab report attached.

4:0 METALLURGY

4:1 Processing of Talc Ores

In August 1988, R. Trifaux and A. Fardal took 50 Kgs of talc ores in Trench No 2 on the left bank of Creek No 3. In the trench in 1987, Trifco Minerals Ltd. found talcs in place with 4 to 5% sulphides in the ores. (See sketch map # 5 of August 31, 1988).

The ores collected were intended to be deposited in the laboratory of Bacon, Donaldson & Associates Ltd., processors and consultants. We asked them to do the analyses of the samples first and processing the ores to obtain a concentrate for the metals which have been found in the talcs. The ores have been crushed, ground, floated and dried. Separation of the sulphides was executed by gravity and magnetic separation also. When the concentrates were recuperated, they were sent to Chemex Laboratories Ltd. for complete analyses, part of the concentrates were given to Min-In Laboratories by Trifco Minerals. Also, at our request, concentrates were sent to Sherritt Gordon Mines Ltd. for analyses and assays. All samples, to date, responded positively to the tests and assays for Ni, Co, Au, Pt, Pd, Ag, Fe and Cr203.

Bacon, Donaldson & Associates Ltd. also sent samples to Vancouver Petrographics Ltd. for thin section, physical determinations, microscopic analyses etc. R. Trifaux sent samples to Orex Laboratories for some analyses.

4:0 METALLURGY

4:1 Processing of Talc Ores (continued)

The petrographic works showed the presence of Pyrite, Pyrrhotites and Pentlandite.

Tin and polished sections were done by the lab of Vancouver Petrographics Ltd. Determination of percentages of sulphides in the ore has been indicated for each sample in the report.

Also, samples were sent to Orex Laboratories Ltd. for physical observations. Some determination of percentages of sulphides has been executed by Orex Laboratories Ltd.



4:0 METALLURGY

4:2 Concentrate Analyses by Bacon, Donaldson & Associates Ltd.

The attached report is self explanatory. The consultants have done preliminary works on the productions of the concentrates of nickel, cobalt, iron and sulphur. For the precious metals, the concentrates are in the laboratory. Further processing will be done on the talcs for the above elements.

4:0 METALLURGY

4:3 Concentrate Analyses by Chemex Labs Ltd.

Bacon, Donaldson & Associates Ltd. issued a purchase order dated September 9, 1988 to Chemex Labs Ltd. of ICP 24 element package and relates to No 7678, which is the client # or Bacon, Donaldson & Associates Ltd., which is Trifco Minerals Ltd. (See P.O.)

From report No A8823309, Chemex showed the Ni content per sample as follows:

				The ICP results were:
7678 - 1	0.14	Rock		1309 ppm
7678 - 2	0.14	Rock		1315 ppm
7678 - 3	0.19	Rock		1686 ppm
7678 - 3a	0.16	Rock		1438 ppm
7678 - 4	0.15	Rock		1353 ppm
7678 - 5	0.12	Rock		1206 ppm
Total	0.90	$\div 6 = 0.15$	or 3# of Ni per ton in the ores.	

From report No A 8821385 Chemex Labs Ltd. gave an average value of 2.58# of Nickel per ton, for cores analyzed from the diamond drilling.

From report No A 8821386 Chemex Labs Ltd. found 68 ppb of Au in 2 samples of graphitic schists in the DoDo Creek on the same group of claims in the falls of the DoDo Creek.

4:0 METALLURGY

4:3 Concentrate Analyses by Chemex Labs Ltd. (continued)

From Report No A 8821463 Chemex Labs Ltd. found 5 and 10 ppb in Gold, from .4 to 1.6 ppm in Silver, from 71 to 247 ppm in Zinc in the schist in the falls of DoDo Creek.

From Report No A 8822143 Chemex Labs Ltd. found 68 ppb in a quartzitic rock below the falls of the DoDo Creek.

Chemex Labs Ltd. report No A 8824737 gave the following results of concentrates of Ni submitted by Bacon, Donaldson & Associates Ltd.

	Ni	Co	Fe(tot)	S%	Weight (grams)
7678 D	0.12 %	0.007	4.63	0.299	118.20
7678 E	0.08 %	0.005	5.09	0.065	142.60
7678 F	0.34 %	0.017	8.04	1.290	149.20
7678 H	1.30 %	0.056	13.40	6.78	43.30

The 7678 H number represents crystal of sulphides sent by Bacon, Donaldson & Associates Ltd. to Chemex Labs Ltd. at the request of R. Trifaux. The results of that analyses is high in Ni - 1.30 %, and in Co - 0.056 %. Chemex Labs Ltd. report No A 8825967 gives the results of a magnetic concentrate to be analyzed for Ni, Co, Fe and S. And the results are positive. The sample is a concentrate of magnetics extracted by high intensity magnetic separation.

4:0 METALLURGY

4:3 Concentrate analyses by Chemex Labs Ltd. (continued)

Chemex Labs Ltd. report No A 8825968 gives the results of an ultrabasic rock ground by Min-En Laboratories for analyses of Ni in the rock. The results for Ni compare with the results of Min-En. Silver is high with 3 ppm.

Chemex Labs Ltd. report No A 8824738 gives the results of sample No 7678 G from Bacon, Donaldson & Associates for total concentrates.

Ni	3.44 %	> 10.000 ppm
Co	.220 %	- 2270 ppm
Fe	44.816 %	> 25%
S	44.6 %	
Zn	898 ppm	
Pb	274 ppm	
Cu	739 ppm	
Ag	46.6 ppm	

Chemex Labs Ltd. report attached.

4:0 METALLURGY

4:4 Concentrate analyses by Min-En Laboratories Ltd.

Test pits dug in March and April 1988 in the Cariboo on the Wim & Wim-Ta claims. Talcs altered and reduced to powder in the holes.

Test for magnesite gave from 3.16 to 18.17 % of magnesite.

Report 8-461 from the same lab gave the following:

	Ni	Nb	Pb	Rb	W	Zn
E A	3160 ppm	90 ppm	306 ppm		144 ppm	81 ppm
E B	380 ppm	90 ppm	171 ppm	440 ppm	162 ppm	108 ppm
E C	300 ppm	90 ppm	270 ppm		189 ppm	99 ppm
E D	180 ppm	90 ppm	270 ppm	360 ppm	156 ppm	112 ppm
E E	2740 ppm	90 ppm	306 ppm		135 ppm	

Min-En Laboratories Ltd. report No 8-1286 P1 gave the following results from samples from cores drilled in 1986.

Average value of cores analyzed 2 # 6 Ni @ 6 per ton = \$ 15.60

Average value of Co analyzed 50 grs @ 16.50 per ton = 1.80

Average value of Ag 1.2 ppm

-----  
\$ 17.40

Min-En Laboratories Ltd. assayed the concentrates without tails from Orex Laboratories Ltd. and came with 1.41 % Ni or 28 # 20, an increased result from the ICP supplied to Orex Laboratories Ltd.

4:0 METALLURGY

4:4 Concentrate analyses by Min-En Laboratories Ltd. (continued)

Min-En Laboratories Ltd. analyzed 3 pulps and from the ultrabasic and had the following results in Nickel. Report 8-1796/P1

Ni	Ag	Co	Zn	
1186	1.3	72	24	
1372	1.4	78	34	Ultrabasic above Trifco Minerals Ltd.
999	.4	45	135	

Report No 8-1871/P1 analyzed a rock with sulphides from Creek No 1 and found the following;

Ni 1074      Co 652      Au 68      Pt 77      Pd 15

Min-En Laboratories Ltd. report attached.

4:0 METALLURGY

4:5 Concentrate analyses by Orex Laboratories Ltd.

The same talc from the trenches has been analyzed by Orex Laboratories Ltd. for it's mineralogical composition. The ore was ground to 100% passing 2 m/m. The minerals observed in the microscopic analyses were: Pyrite, Pyrrhotite, Pentlandite, Goethite (alterations), Chalcopyrite and Galena.

The concentrate product contains 75% sulphides. In the samples the sulphides constitute approximately 4% of the sample. The only Ni bearing mineral in the sample is Pentlandite (0.2% by weight). An analyses of the concentrate by ICP by Min-En Laboratories Ltd. gave the following results:

Ni - 8159 ppm or 8159 grams  $\div$  450 grams = 18 lbs per ton

Co - 676 ppm or 1 pound 226 per ton of concentrate

As - 184 ppm per ton of concentrate

Ag - 1.5 ppm per ton of concentrate

Cu - 156 ppm per ton of concentrate

Pb - 198 ppm per ton of concentrate

Zn - 50 ppm per ton of concentrate

Cr - 434 ppm per ton of concentrate

Orex Laboratories Ltd. report attached.

4:0 METALLURGY

4:6 Conclusion of Works Data

(1) The digging of the seven pits on the left bank of Creek No 3 gave a good cross section of talc present in that area. The weathered talc has been found to depths of 3 to 4 m in the holes. All pits encountered talc and talc boulders and we were able to calculate the presence of the following reserves in place. See map No 6.

(2) The samples of talc taken in the Trench No 1 on the left bank of Creek No 3 (approximately 54 Kgs) permitted us to ask Bacon, Donaldson & Associates Ltd. to process our talcs to have a concentrate to be analyzed for the metals which we knew were contained in the ores. i.e. Ni, Co, Cu, Fe, Cr, Pt, Pd, Ag. (Some gold).

The results of analyses by the consulting companies are positive and as follows:

(See sketch for location of samples, and report from analyses of Chemex Laboratories Ltd.



## 5:0 COST STATEMENTS

## 5:1 Cost Summary

1. Work done by independent contractors:		
R. Kozuchar, operator and owner of heavy equipment.	\$3,319.00	
A. Fardal - sampling, cleaning trails, staking, surveys, boxing samples for labs.	458.09	
Berton McLean, work done in April and July 1988 for report on pits excavation and placement of sign on the property	216.25	
R. Trifaux - work and supervision on the sites (time, expenses, meals & mileage)	<u>5,588.50</u>	\$ 9,581.84
2. Work executed by:		
Chemex Labs Ltd.	\$1,440.03	
Min-En Laboratories Ltd.	738.00	
Bondar-Clegg & Company Ltd.	431.50	
Orex Laboratories Ltd.	175.00	
Vancouver Petrographics Ltd.	740.50	
Quanta Trace Laboratories Ltd.	<u>40.00</u>	3,565.03
3. Bacon, Donaldson & Associates Ltd.		2,611.21
4. Miscellaneous costs:		
Samples preparation 10 hrs x \$20	\$ 200.00	
Transportation costs, time for lab trips for meetings and following up on the laboratory work.	<u>215.50</u>	415.50
5. Drafts for reports and verification.	\$ 350.00	
Typing, photocopies & miscellaneous trips.	480.00	
Transportation, stationery	150.00	
Document preparation 30 hrs x \$20	<u>600.00</u>	1,580.00
6. Miscellaneous Expenses related to reserves and metallurgy on Wim & Wim-Ta claims in the field and in the lab.	\$ 456.93	
In the head office - March, April, August, September & October.	738.37	
Samples preparation.	<u>112.50</u>	<u>1,307.80</u>
Total Expenses		\$19,061.38

6:0 STATEMENT OF QUALIFICATIONS

EDUCATION

- A. Two diplomas from Tamines and Chatelineau Schools of Mines, Belgium - underground surveys, calculation of coordinates, reserves, geology, study of fossils for reconnaissance.
- B. University of Charleroi, Belgium. One year - one certificate.
- C. McMaster University (certificate) Cost accounting - 2 years.
- D. Passed successfully the rocks and minerals test with a professional engineer from the Department of Mines in 1978 at Robson Square, Vancouver, B.C.

EXPERIENCE

Extensive experience in exploration in Zaire and Ruanda - Burundi in Central Africa. Tin, wolframite, columbo-tantalite, beryllium and gold. Increased reserves of two tin mines.

Directed open pit, placer and underground mines. Mapping and establishment of reserves.

In Canada I started prospecting in 1959 for gold for a company in placer. I did several discoveries of base, precious metals and industrial minerals - zinc, lead, copper, molybdenum, silver, gold, extensive talc beds, syenite, graphite, calcium carbonate, calcium silicate (wollastonite), dolomite and magnesite in the Cariboo and in other divisions.

6:0 STATEMENT OF QUALIFICATIONS

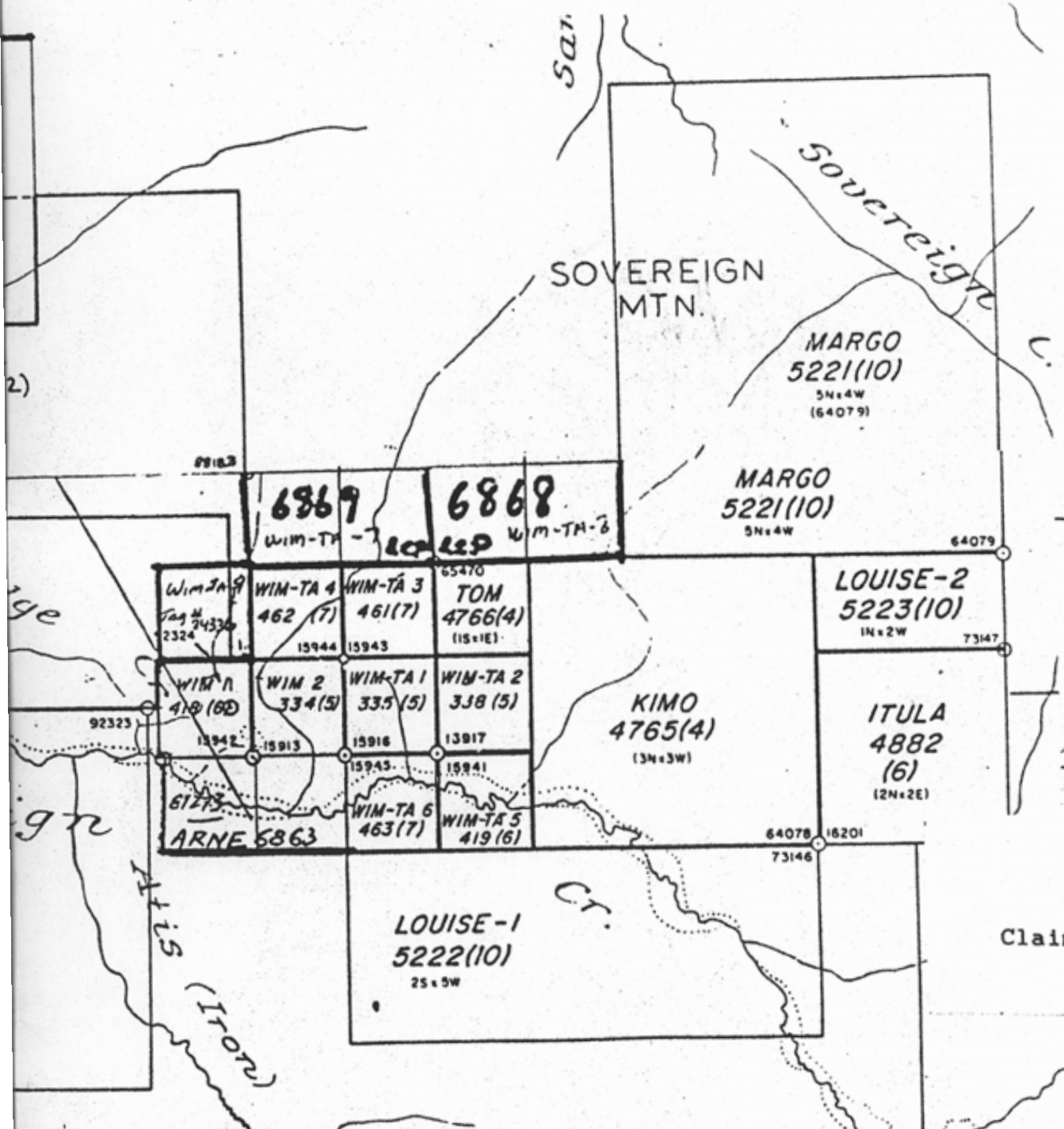
EXPERIENCE (continued)

Beneficiation of industrial minerals (talc) has been done with success. Processing of ores for base metals also has been done in part. I keep informed with mining literature from the U.S.A. and from the Department of Energy, Mines and Petroleum Resources in Victoria. I consult with professionals and use the most up to date prospecting equipment, aerial maps, optics (stereoscope, altimeter, geiger counter, mineral light etc.)

I am engaged in the research of other industrial minerals and make some processing of them to know their qualities and usefulness.

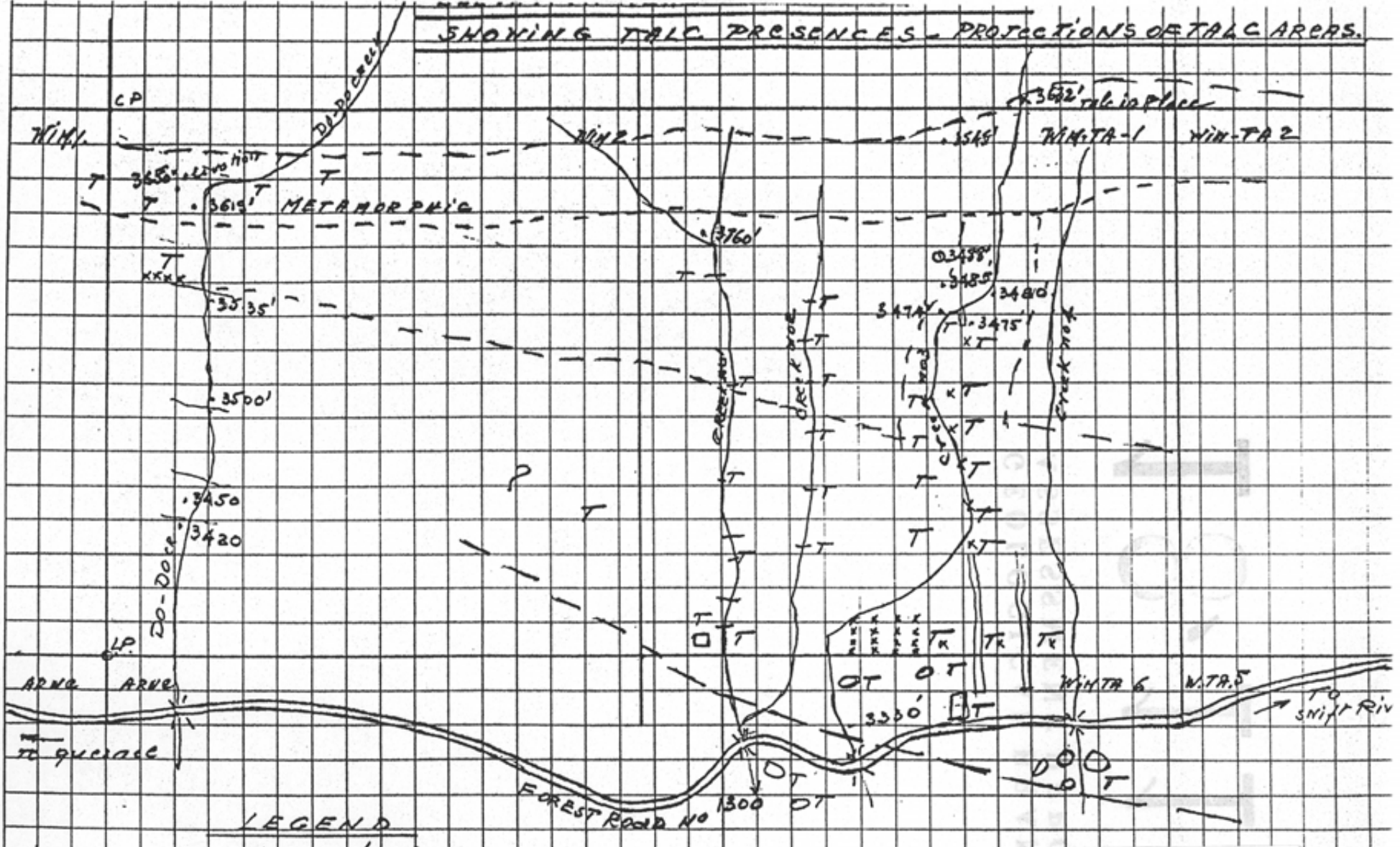
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,118



Map No. 1 - M93A/13W  
Cariboo Mining Division  
Claims location of Trifco Minerals Ltd.  
Scale 1/50,000

SHOWING TALC. PRESENCES - PROTECTIONS OF TALC AREAS.



LEGEND

- T - talc showings -
- O - ELEVATIONS -
- talc limits
- ROAD NO 1300
- EXCAVATIONS
- Boulders.

Map No 2  
 Wim & Wim-Ta Group of Claims  
 Cariboo Mining Division

Talc showings on claims  
 Wim 2, Wim-Ta 1 & 2  
 Scale 2 cm/100 m  
 By R. Trifaux

TRIFCO MINERALS LTD

SECTIONS A-A & B-B

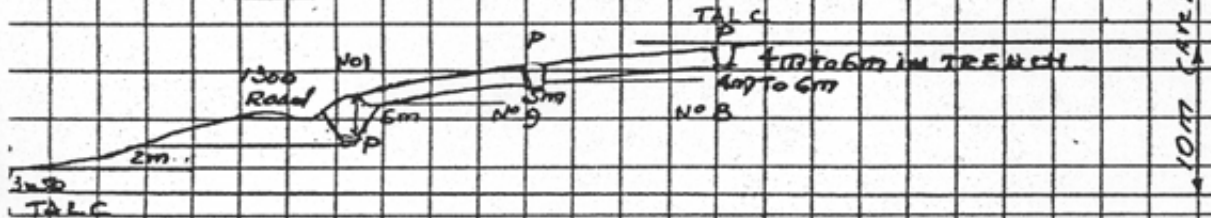
APRIL 1988

NOT TO SCALE

*R. Trifaux*

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,118



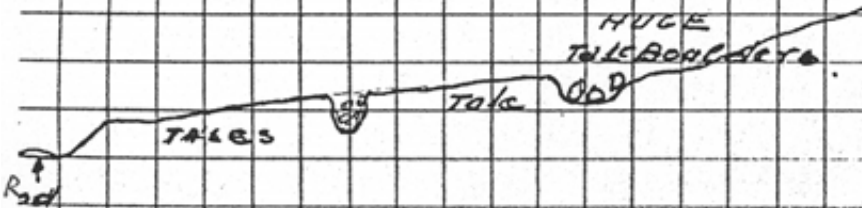
SECTION A-A

Map No 3

By R. Trifaux

Pits location on left bank  
of Creek No 3

Sections AA BB



SECTION B-B

TOTAL DEPTH. PITS No 1 to Pit 10.  
 INCLUDING DEPTH OF TRENCH  
 IN SECTION A-A =  $3.5 + 2 + 6m = 11.5m$   
 BETWEEN PIT 188 = 2m  
 TOTAL = 13.5m. AVERAGE DEPTH  
 CONSIDERED 10m. IN CALCULATION  
 OF RESERVE

WIM-TA CLAIMS

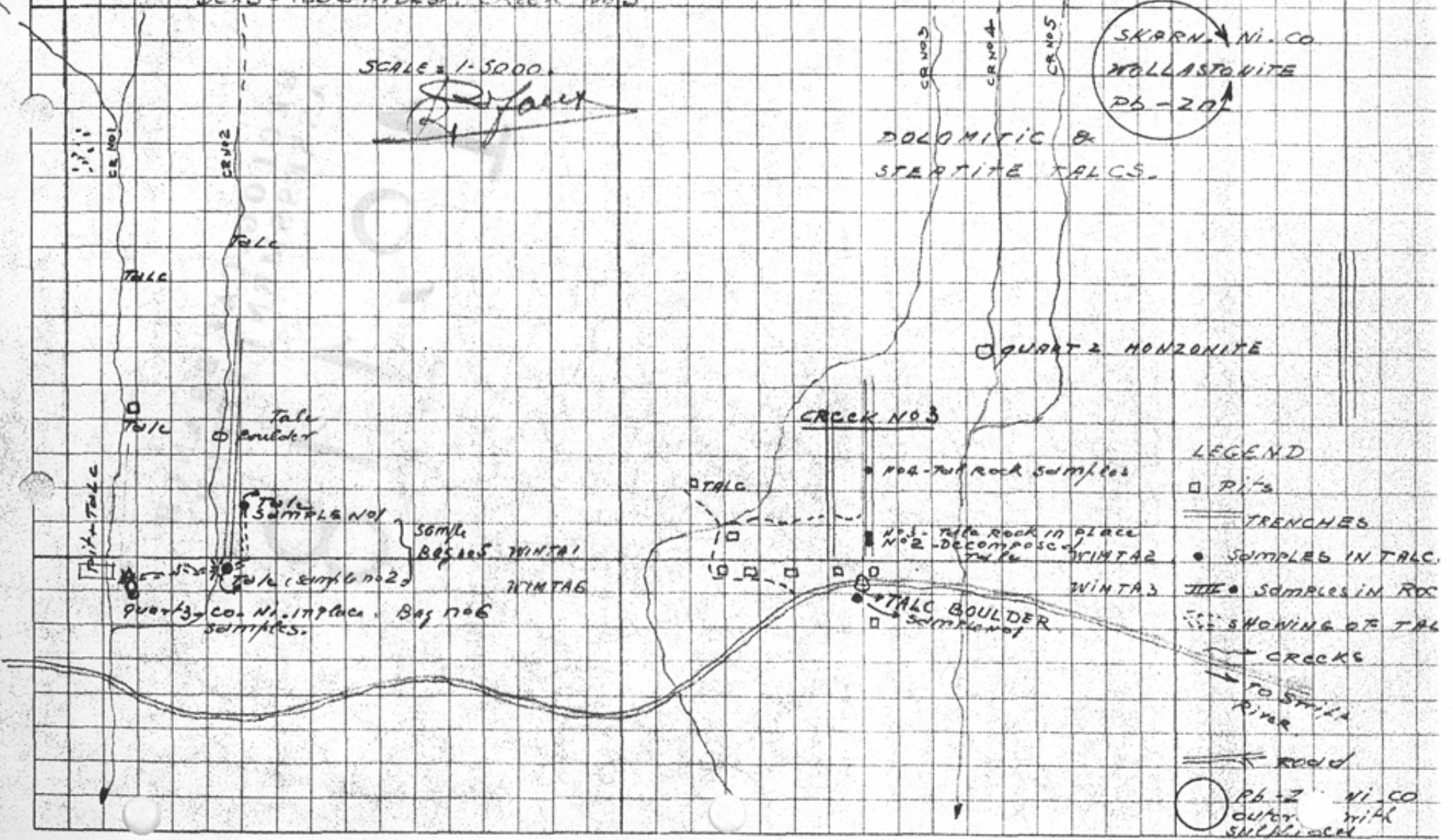
PLAN No. 4

NORTH

- BAG NO. 1. SAMPLE FROM BIG BOULDER
- BAG NO. 2. DECOMPOSED TALC FROM TRENCH NO. 2. CREEK NO. 3
- BAG NO. 3. TALC ROCK IN PLACE IN TRENCH WITH SULPHIDES
- BAG NO. 4. NORTHERN PIT CONTROLLED BY KAZUCHIY. TALC FROM 2 BOUL. -DCRS- (SULPHIDES), CREEK NO. 3

- BAG NO. 5. SAMPLE NO. 1 AND NO. 2 FROM CREEK
- BAG NO. 6. QUARTZ IN PLACE LEFT BANK NO. 1 CREEK

SCALE = 1:5000  
*[Signature]*



SKARN Ni. CO  
 WOLLASTONITE  
 Pb-Zn

DOLOMITIC &  
 STREPTITE TALCS.

QUARTZ HORIZONITE

CREEK NO. 3

- LEGEND
- PITS
  - ≡ TRENCHES
  - SAMPLES IN TALC
  - SAMPLES IN ROCK
  - SHOWING OF TALC
  - ~ CREEKS
  - TO ST. RIVER
  - ≡ ROAD
  - Pb-Zn Ni. CO outcrop with sulphides

quartz co. Ni. in place. Bag No. 6 samples.

Talc sample no. 1  
 sample BEARS WINTAG  
 WINTAG  
 Talc sample no. 2

no. 1 - talc rock samples

no. 1 - talc rock in place  
 no. 2 - decomposed talc

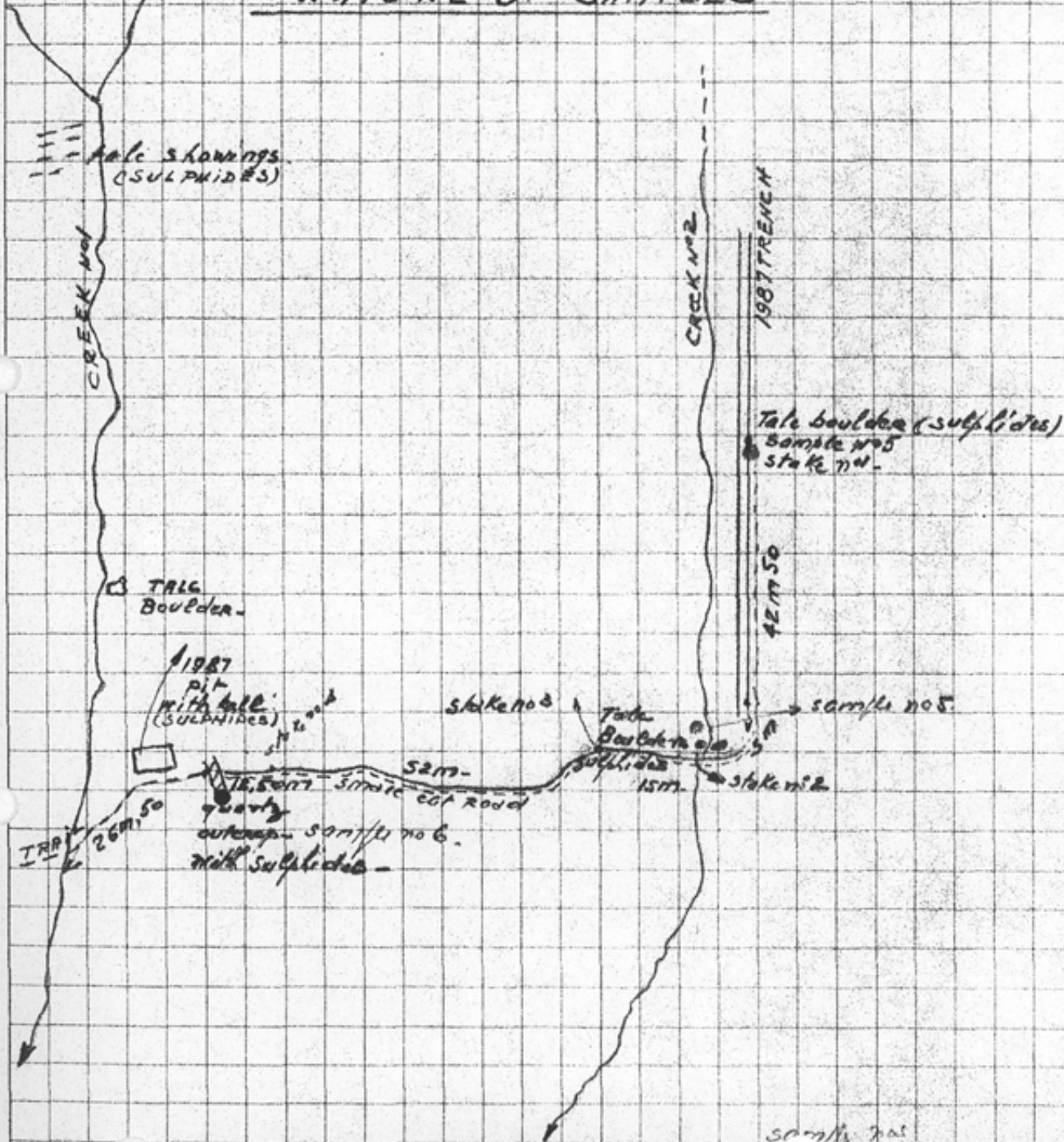
TALC BOULDER  
 sample no. 1

CREEK N°1 and N°2. WIM-TA. claims - Plan No 5

SAMPLE LOCATIONS.

NATURE OF SAMPLES

NORTH.



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,118

LEGEND.

- PIT. 1987. (with talcs)
- == TRENCH. 1987. (with talcs)
- SAMPLES IN TALC (sulphides)
- SAMPLES IN ROCK.
- TRAIL
- III OUTCROP IN ROCK.

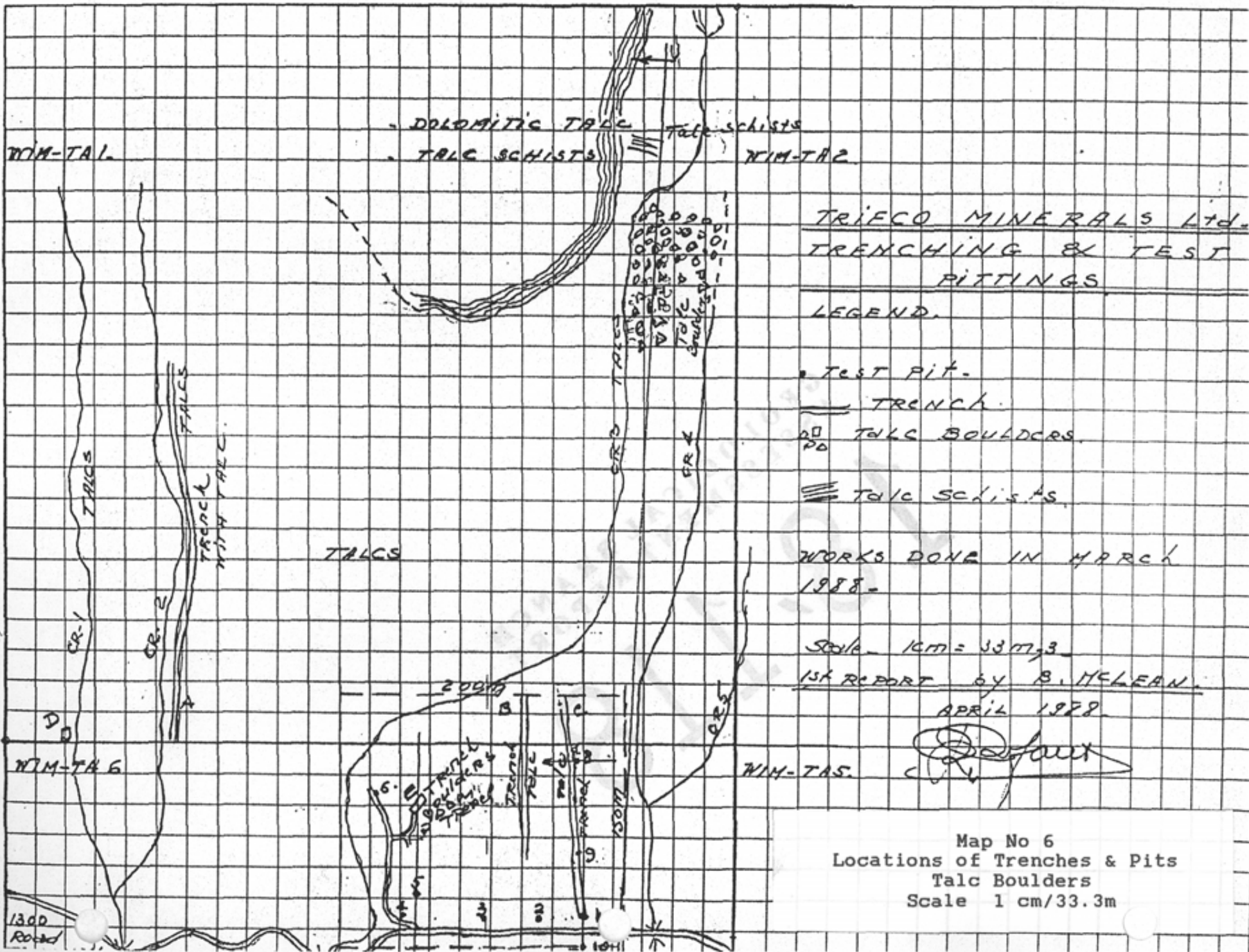
SCALE - 1CM = 10MT. (APPROX.)

AUGUST 31, 1988

*[Signature]*

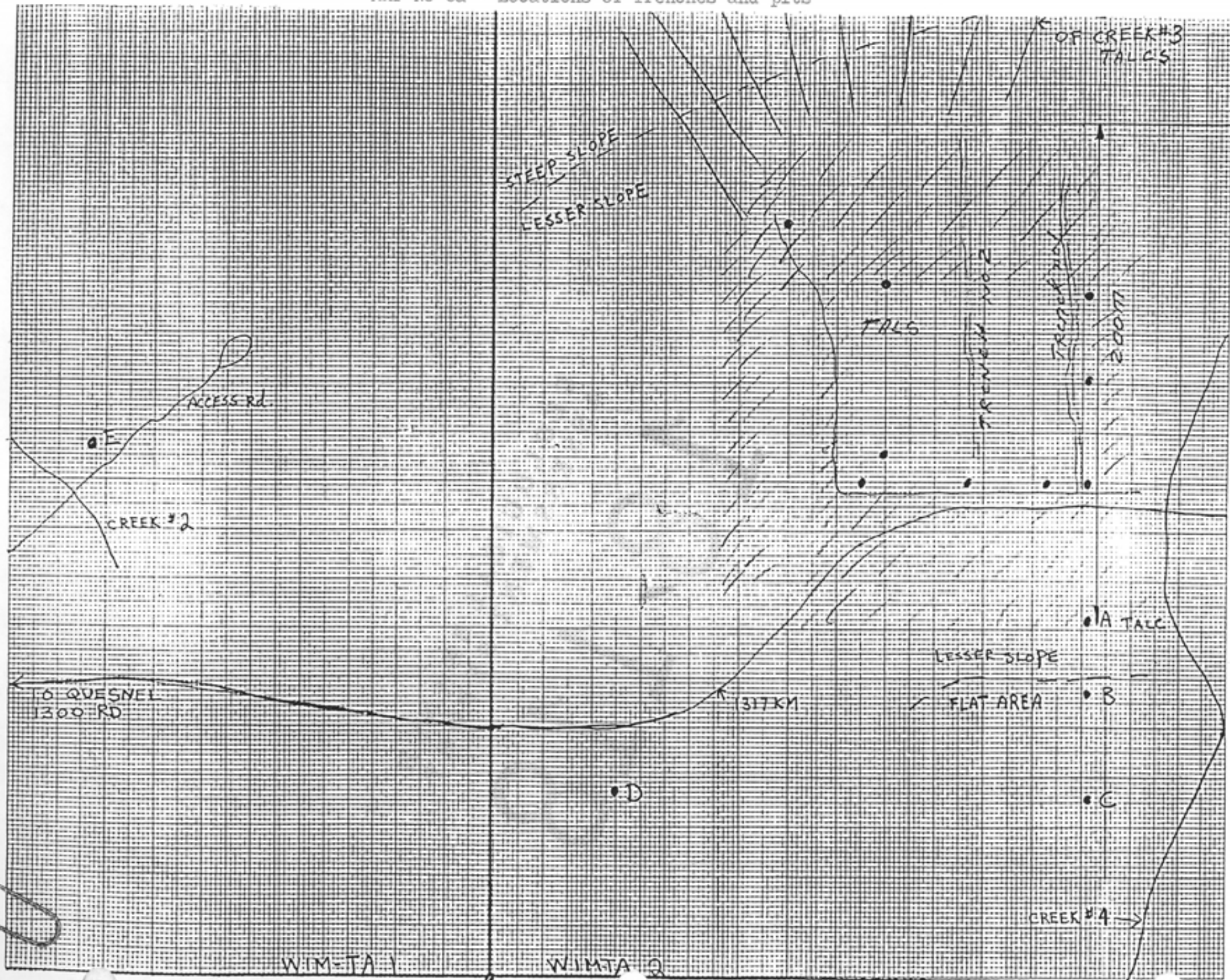
sample nos.





Map No 6  
 Locations of Trenches & Pits  
 Talc Boulders  
 Scale 1 cm/33.3m

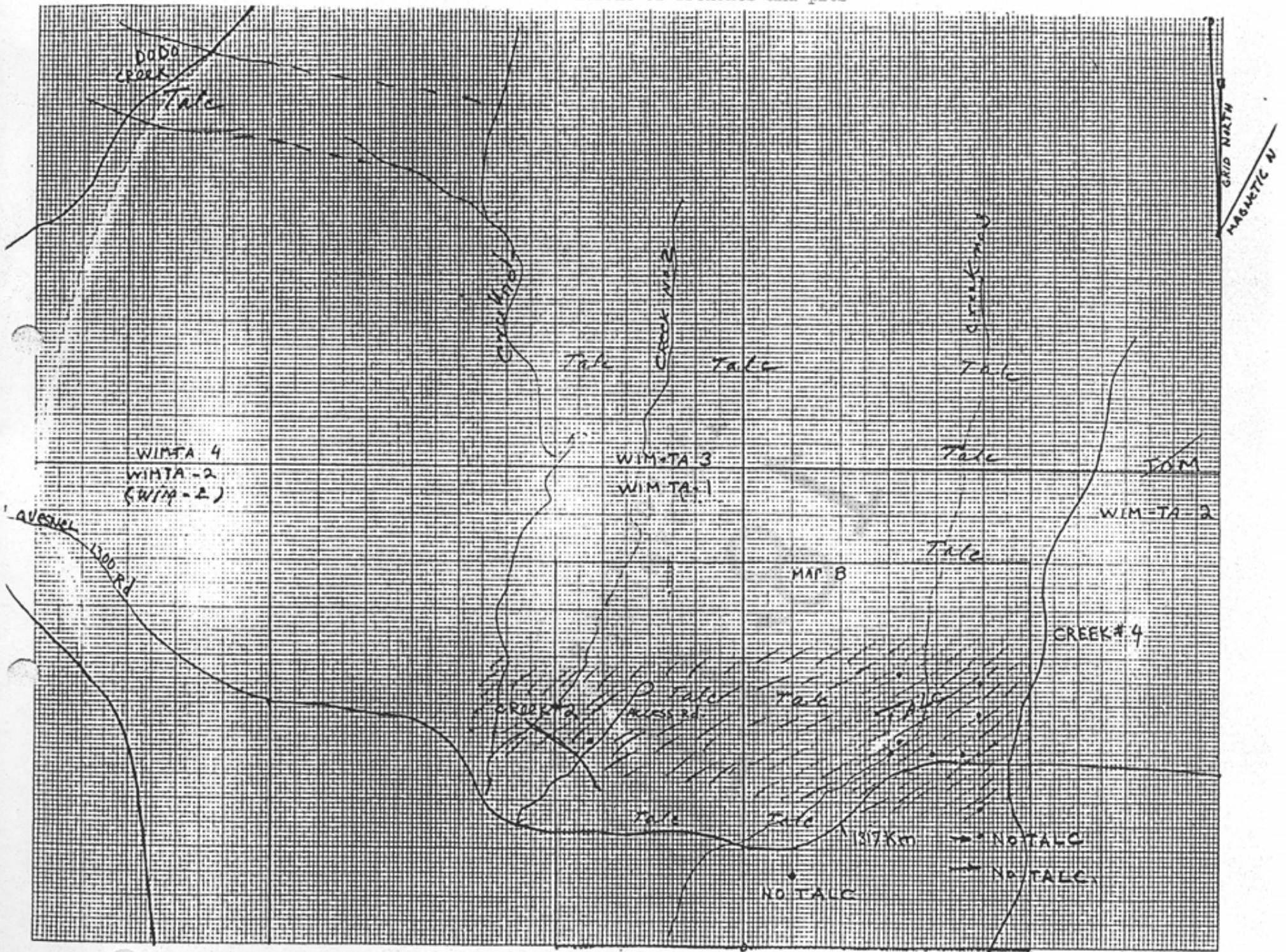
MAP NO 6a - Locations of Trenches and pits



By Berton McLean

2000:1  
50M:1CM

MAP NO 6B - Locations of Trenches and pits



S-5131

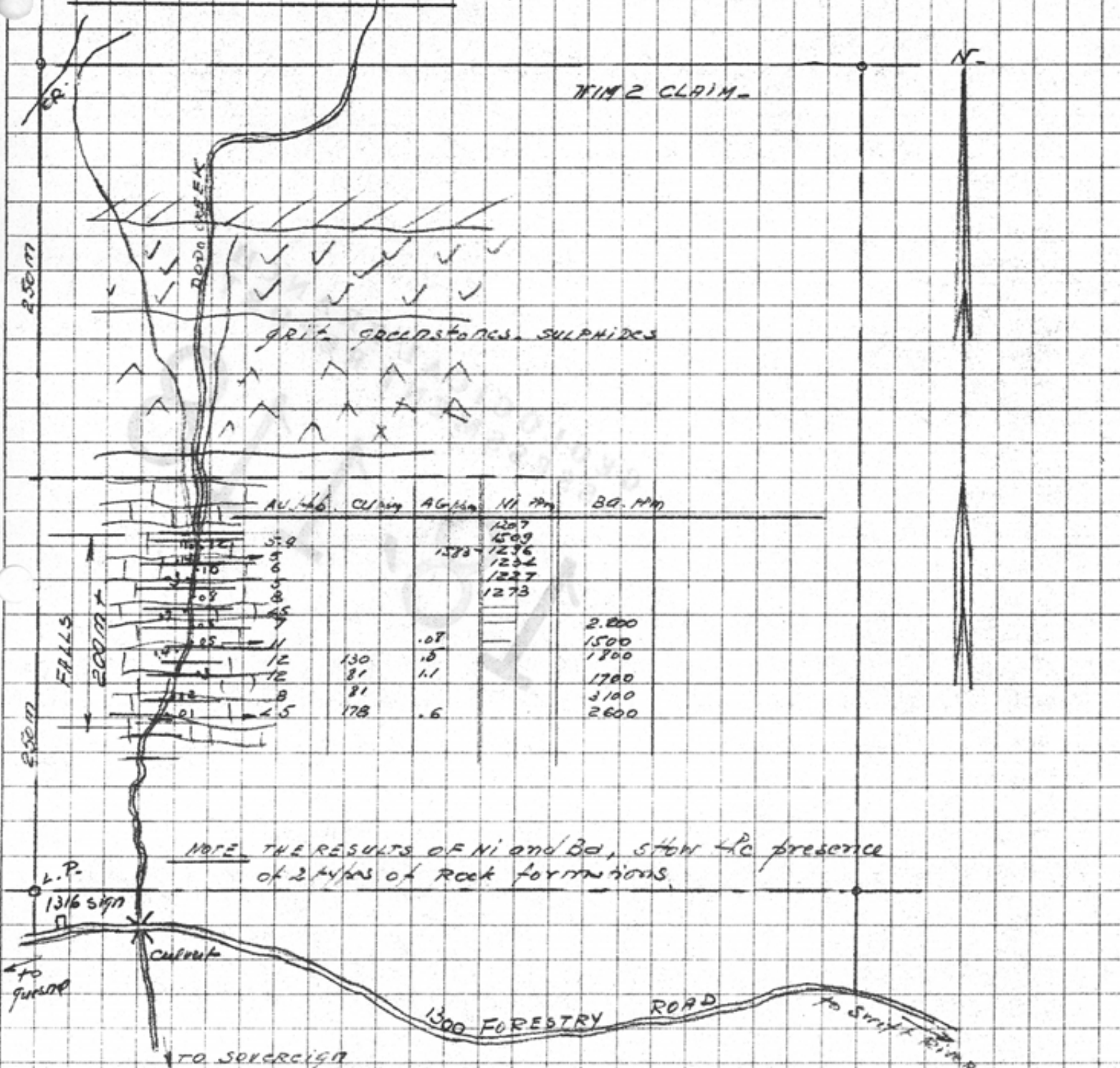
Metric

R.

Renton M9.ean

500'

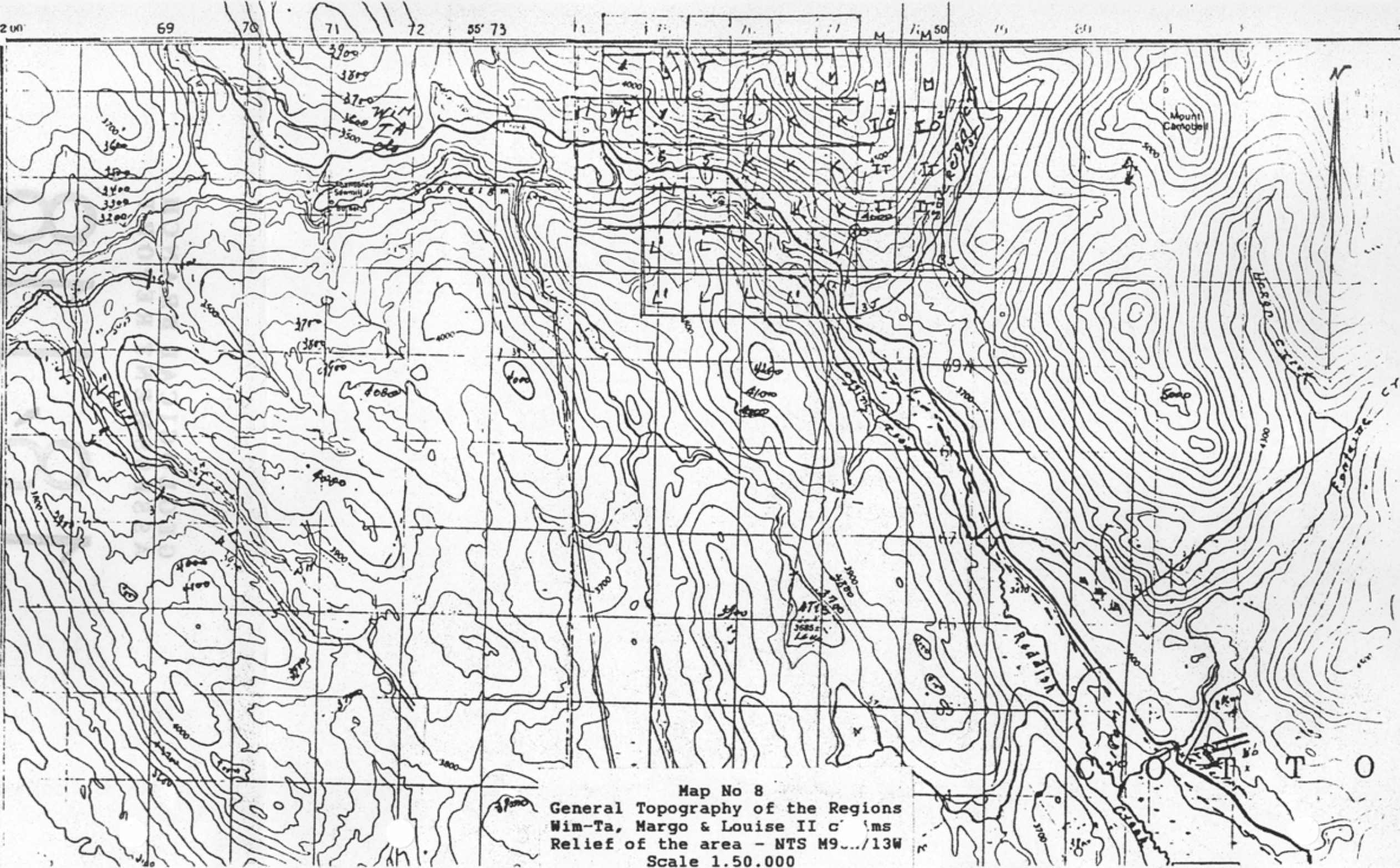
TRIFCO MINERALS LTD. WIM-KIMTA. GROUP OF CLAIMS  
 DO-DO CREEK. GEOCHEM SURVEY IN ROCKS IN THE  
 GRAPHITIC SCHISTS. MAP No 7



NOTE THE RESULTS OF Ni and Bi, show the presence of 2 types of rock formations.

LEGEND

- //// TALCS
  - vvvv GRITT.
  - ^^^ GRITT + GREENSTONES
  - ≡≡≡ LIMESTONES
  - ⊞ BLACK SCHIST. (GRAPHITIC)
- SCALE  
 1:50,000  
 NOVEMBER 1988  
 D. J. FAULT



Map No 8  
 General Topography of the Regions  
 Wim-Ta, Margo & Louise II c' ms  
 Relief of the area - NTS M9.../13W  
 Scale 1.50.000



*Conferment to Zaim & Donaldson  
Report.*  
*Vancouver Petrographics Ltd.*

JAMES VINNELL, Manager  
JOHN G. PAYNE, Ph. D. Geologist

P.O. BOX 39  
8887 NASH STREET  
FORT LANGLEY, B.C.  
VOX 1J0

Report for: **Rene Trifaux,**  
**TRIFCO Minerals,**  
**751 Clark Road, Suite 308,**  
**COQUITLAM, B.C.**

PHONE (604) 888-1323

Invoice 7638  
September 1988

Samples: 7678 Series: 1 to 5, 8 to 14  
Study of Sulfide Minerals Only

**Summary:**

Samples 1, 2, 3, 3A, 4, 5, and 6 are thin sections of rock chips up to a few mm across (averaging 0.5-1.5 mm). Samples 8, 9, 10, 11, 12, 13, and 14 are polished sections of rock samples. The study was made only of the opaque and semiopaque minerals. The mineralogy of silicates and carbonates could be made on the thin sections, but not on the polished sections.

The samples can be divided into two main suites on the basis of their sulfide and oxide mineralogy as follows:

- A: Ultramafic samples containing pentlandite and/or chromite
- B: Mafic and other samples free of pentlandite and chromite

Most samples contain pyrrhotite and pyrite with much less chalcopyrite.

Pyrrhotite forms very fine to fine grained patches, either alone or intergrown with lesser pentlandite and minor chalcopyrite, and extremely fine grained inclusions in pyrite, either alone or with chalcopyrite. In some samples, it is altered moderately to strongly to secondary marcasite/pyrite-(oxide/carbonate), or more strongly altered to limonite/hematite.

Pentlandite occurs alone and with pyrrhotite in very fine grained intergrowths. A mineral which may be pentlandite occurs as interstitial grains in some pyrite aggregates in samples containing pyrrhotite-pentlandite aggregates.

Chalcopyrite is a minor phase occurring with or near pyrrhotite and as inclusions in pyrite.

Pyrite generally forms anhedral grains up to 1.5 mm in size. It is free of inclusions or contains minor ones of one or more of pyrrhotite, chalcopyrite, and pentlandite.

Chromite forms anhedral, strongly fractured and segmented grains up to 2 mm in size.

Ilmenite and Ti-oxide occur together in patches, in part associated with biotite. Ti-oxide is secondary after ilmenite. In one sample magnetite and ilmenite are abundant, and commonly form aggregates of very fine grains. Locally ilmenite contains exsolution lenses of magnetite or hematite.

Minor phases include sphalerite (with exsolution chalcopyrite) and coarse pyrite cubes.

In the summary below, phases are listed in order of decreasing abundance. Phases in brackets are much less abundant than those listed before the brackets. Phases present in trace amounts are not listed.

**A: Ultramafic Samples with Pentlandite and/or Chromite**

The ultramafic nature of these samples is indicated by the presence of chromite and by the sulfide association pyrrhotite-pentlandite.

Sample 7678-1	pyrite-pyrrhotite-(pentlandite)	
7678-2	pyrite-pyrrhotite-chromite-ilmenite	
7678-3	pyrite-pyrrhotite-pentlandite-chromite	7
7678-3A	pyrite-chromite-(pyrrhotite-pentlandite)	
7678-4	pyrite-pyrrhotite-pentlandite-chromite	
7678-5	pyrrhotite-pyrite-pentlandite-chromite-ilmenite	

**B: Mafic and Other Samples without Pentlandite and/or Chromite** *Cu-No identification only.*

7678-6	pyrrhotite-(pyrite)
8	ilmenite-magnetite-(pyrite-pyrrhotite-chalcopyrite)
9	pyrrhotite-(chalcopyrite- Ti-oxide)
10	pyrrhotite
11	ilmenite-(pyrite), vein of pyrite-(chalcopyrite)
12	pyrite-pyrrhotite-ilmenite/Ti-oxide-(chalcopyrite)
13	pyrite-(sphalerite-chalcopyrite)
14	pyrite

### Sample 7678-1

Pyrite (3-4%) forms angular grains averaging 0.1-0.3 mm in size, with a few from 0.6 to 1.5 mm in size.

Pyrrhotite (2-3%) forms patches averaging 0.07-0.15 mm of very fine, anhedral, equant grains. Some patches are altered strongly to completely to hematite along a major crystallographic direction of the pyrrhotite grains.

Pentlandite (0.2%) forms grains averaging 0.02-0.05 mm in size intergrown with pyrrhotite.

Chalcopyrite (trace) forms a very few grains up to 0.02 mm in size bordering or near pyrrhotite, and a few inclusions in pyrrhotite.

### Sample 7678-2

Pyrite (0.1%) forms grains averaging 0.03-0.2 mm in size. Several are surrounded by thin alteration rims of hematite.

Pyrrhotite (minor) forms grains averaging 0.05-0.15 mm in size; many are altered completely to limonite/hematite.

Chromite (minor) forms a few angular grains 0.25 mm across.

Ilmenite (minor) and Ti-oxide (0.2%) occur in clusters up to 0.3 mm in size as grains averaging 0.03-0.07 mm in size.

### Sample 7678-3

Pyrite (2- 3%) forms subhedral to anhedral grains averaging 0.1-0.2 mm in size, with a few up to 0.6 mm across. Some grains contain irregular tiny inclusions of pyrrhotite, pentlandite(?), and chalcopyrite. A few are altered slightly to moderately along borders and fractures to hematite.

Pyrrhotite (1%) forms anhedral grains 0.05-0.15 mm in size.

Pentlandite (0.5%) forms grains averaging 0.03-0.07 mm in size intergrown with pyrrhotite and much less chalcopyrite.

Chromite (1%) forms anhedral, strongly fractured grains up to 2 mm across.

### Sample 7678-3A

Pyrite (2- 3%) forms grains averaging 0.05-0.3 mm in size, with a few up to 1.2 mm across. A few contain minor inclusions of chalcopyrite, pentlandite(?), and pyrrhotite. A few are altered on borders and along a few coarse fractures to hematite.

Pyrrhotite (minor) forms a few grains up to 0.1 mm in size, mainly intergrown with pentlandite. Some are replaced completely by hematite.

Pentlandite (minor) occurs in intergrowths with pyrrhotite, as grains from 0.05-0.1 mm in size.

Chromite (1-2%) forms strongly fractured grains up to 2 mm across.

Chalcopyrite (trace) forms minor inclusions in pyrite.



#### Sample 7678-4

Pyrrhotite (0.4%) forms grains average 0.05-0.1 mm in size, and a few clusters up to 0.6 mm long of grains averaging 0.03-0.05 mm across.

Pyrite (0.2%) forms clusters up to 0.4 mm in size of grains averaging 0.05-0.1 mm across. Some patches consist of pyrrhotite intergrown with lesser, subhedral pyrite grains averaging 0.05-0.07 mm in size.

Pentlandite (0.2%) forms anhedral grains from 0.03-0.07 mm in size, in part alone and in part intergrown coarsely with pyrrhotite.

Chromite (0.3%) forms angular grains averaging 0.1-0.3 mm in size.

#### Sample 7678-5

Pyrrhotite (0.7%) forms anhedral grains averaging 0.05-0.08 mm in size. Some are altered to secondary marcasite/pyrite and some are more strongly altered to limonite/hematite.

Pyrite (0.2%) forms subhedral to euhedral grains averaging 0.07-0.15 mm in size, with a few up to 0.5 mm across. One large grain is altered to hematite on coarse fractures. A few other grains are altered slightly on their borders to limonite/hematite.

Pentlandite (0.1%) forms anhedral grains from 0.03-0.1 mm in size, in part intergrown coarsely with pyrrhotite.

Chalcopyrite (trace) forms a few angular grains up to 0.03 mm in size intergrown with silicates.

Chromite (0.3%) forms a few ragged, slightly to strongly fractured and replaced grains from 0.1-0.8 mm in size.

Ilmenite (0.2%) forms a clusters of grains up to 0.6 mm in size associated with biotite (partly altered to muscovite). Ilmenite is replaced moderately by Ti-oxide.

#### Sample 7678-6

Pyrrhotite (2-3%) forms anhedral patches averaging 0.1-0.3 mm in size, with a few from 0.5-0.8 mm across. Several are altered moderately to strongly to secondary marcasite/pyrite and/or limonite/hematite. In the largest grain, secondary marcasite/pyrite is oriented along one crystallographic direction in pyrrhotite, and partly forms halos about narrow fractures.

Pyrite (0.3-0.5%) forms anhedral fragments from 0.1-0.2 mm in size.

#### Sample 8

Magnetite (1%) and ilmenite (2- 3%) occur in disseminated, commonly skeletal intergrowths up to 0.5 mm in size intergrown with rounded silicate grains. Oxide grains commonly are subrounded and average 0.05-0.2 mm in size. A few coarser grains of ilmenite up to 0.4 mm in size contain abundant, extremely fine grained, exsolution lenses of magnetite or hematite. Disseminated grains average 0.015-0.03 mm in size. The rock is moderately magnetic.

**Sample 8** (continued)

Sulfide grains occur alone or locally intergrown coarsely with magnetite and lesser ilmenite.

Pyrite (0.2%) forms anhedral grains averaging 0.05-0.15 mm in size. Several contain minor subrounded inclusions of chalcopyrite, and a few contain one or two inclusions of pyrrhotite-chalcopyrite. Some are rimmed by hematite.

Pyrrhotite (0.1%) forms a few patches up to 0.15 mm in size. In many patches it is altered to marcasite/pyrite or limonite/hematite.

Chalcopyrite (minor) forms grains averaging 0.02-0.05 mm in size, mainly associated with pyrite or pyrrhotite.

**Sample 9**

Pyrrhotite (1- 2%) occurs in silicate (quartz?) veins as patches averaging 0.2-0.7 mm in size, with a few lenses up to 3 mm long. In several patches, it is altered strongly to marcasite/pyrite, and in a few others it is altered strongly to limonite/hematite. Pyrrhotite also forms moderately abundant disseminated grains averaging 0.01-0.02 mm in size; many of these are replaced by limonite/hematite.

Chalcopyrite (minor) forms a few anhedral grains up to 0.1 mm in size associated with pyrrhotite and a few up to 0.03 mm in size in silicate (quartz?) veins.

Ti-oxide (0.1%) forms disseminated, subrounded grains averaging 0.01 mm in size.

**Sample 10**

Pyrrhotite (5- 7%) forms subrounded, irregular, locally skeletal patches averaging 1-2 mm in size. Grain size is medium. Along one side of the section, alteration is strong to secondary marcasite/pyrite. Many patches contain abundant silicate inclusions averaging 0.02-0.05 mm in size.

Chalcopyrite (trace) forms a very few grains from 0.03-0.13 mm in size in pyrrhotite.

**Sample 11**

Pyrite (0.2%) forms disseminated, subhedral grains averaging 0.03-0.05 mm in size. One contains two rounded inclusions of pyrrhotite 0.007-0.01 mm across. One patch of grains up to 0.1 mm in size is replaced strongly by hematite.

Chalcopyrite (trace) forms disseminated grains up to 0.05 mm in size.

Ilmenite (1%) forms disseminated, equant grains averaging 0.05-0.15 mm in size, in part associated with Ti-oxide.

A veinlike zone up to a few mm wide is dominated by extremely fine to very fine grained aggregates of pyrite (10-12%), with locally, subhedral coarser grains up to 0.6 mm in size. Dusty to extremely fine grained silicate inclusions are common in finer grained aggregates, and much less common in coarser grains. Chalcopyrite (0.2%) forms a few anhedral, interstitial patches up to 0.2 mm in size in silicates adjacent to pyrite and a few patches up to 0.05 mm in

### Sample 12

Pyrite (5- 7%) forms anhedral to subhedral aggregates of very fine grains in patches up to 1.2 mm in size. Some patches are slightly pleochroic, suggesting that the mineral is marcasite/pyrite. Most grains contain abundant tiny silicate inclusions; patches with abundant, extremely fine grained to dusty inclusions may be secondary after pyrrhotite.

Pyrrhotite (3- 4%) forms grains up to 0.5 mm in size in patches up to 1 mm in size. Many are altered to secondary marcasite/pyrite and much less non-reflective opaque.

Chalcopyrite (0.3%) forms interstitial patches in pyrite clusters, averaging 0.02-0.07 mm in size, with a few up to 0.15 mm across. A few chalcopyrite grains and patches up to 0.3 mm in size are interstitial to silicates. A few chalcopyrite-rich veinlets up to 0.07 mm wide and 1.5 mm long contain minor pyrrhotite (altered to marcasite/pyrite).

Ilmenite and Ti-oxide (1-2%) occur in patches averaging 0.1-0.3 mm in size, with grains averaging 0.03-0.05 mm in size. Ti-oxide generally is concentrated towards the margins of the patches and probably is secondary after ilmenite.

### Sample 13

Pyrite (7-8%) forms anhedral to subhedral grains averaging 0.1-1.5 mm in size in clusters up to 3 mm in size. They contain very abundant tiny silicate inclusions and a very few pyrrhotite inclusions averaging 0.01-0.02 mm in size.

Sphalerite (minor) forms a few anhedral grains up to 0.2 mm in size, with abundant exsolution blebs of chalcopyrite (0.003-0.005 mm).

Chalcopyrite (trace) forms one grain 0.03 mm across in silicate.

### Sample 14

The rock contains euhedral to subhedral pyrite cubes up to a few mm across, in part slightly intergrown with groundmass silicates.



John G. Payne  
604-986-2928

November 2, 1988

File Number: 7678

TRIFCO MINERALS LTD.  
Suite 308 - 751 Clark Road  
Coquitlam, B.C.  
V3J 3Y3

Attention: Rene Trifaux, Sr.


Dear Rene,

Re: Production of Sulphide Concentrate from Talc Ore

On September 8, 1988, Bacon, Donaldson and Associates received seven samples of talc ore reportedly collected from your property in the Cariboo. The samples are identified as follows and the assays by Chemex Labs Ltd. are as indicated:

	<u>% Ni</u> HF Digest	<u>% Ni</u> AR Digest	S %	Fe %	Co ppm	Sample Weight g
Sample #1	0.14	0.11	1.460	3.97	68	4134
Sample #2	0.14	0.08	0.022	5.02	73	7041
Sample #3	0.19	0.15	1.660	4.69	68	9469
Sample #3 A	0.16	0.11	1.380	4.40	67	6870
Sample #4	0.15	0.09	0.224	3.95	71	11301
Sample #5	0.12	0.08	0.425	3.55	77	10527
Sample #6	<0.01	<0.01	0.468	1.36	6	1395

The two different assays for % Ni represent analyses preceded by two different sample digestion procedures. The "HF Digest" represents a hydro fluoric acid digestion which should dissolve silicate materials as well as sulphides. The "AR Digest" represents an aqua regia digestion which does not dissolve silicates.



The purpose of the testwork was to produce a bulk sulphide flotation concentrate for evaluation by Sherritt Gordon Mines Ltd. A composite was prepared by combining samples #1 through #5.

### Sample Treatment Procedure

As shown in Figure 1, the feed to flotation was ground to approximately 82% minus 200 mesh.

Each flotation was performed at approximately 20% solid (wt) in the slurry. In each test the only reagent used was MIBC at a dosage of 0.15-0.21 lb MIBC/ton of ore. The purpose of this flotation was to produce a talc flotation concentrate. The times for these flotations were exceptionally long, ranging between 63 and 93 minutes.

The flotation tails from each of these tests were combined together for feed to the sulphide flotation stage. A size analysis of this material indicated a size distribution of 89% minus 200 mesh. This material was floated at natural pH=8.3 for 52 minutes with 0.18 lb MIBC/ton of feed. This scavenger flotation was to further remove any talc remaining in the tails from the previous flotation. Following the talc scavenger flotation, the slurry was conditioned with Depramin C, PAX and AF208 then followed by a rougher sulphide flotation using DF250. The rougher flotation concentrate was further processed in two cleaner flotation stages. The final cleaner concentrate was sent to Sherritt Gordon.


The talc rougher flotation concentrate was further treated by magnetic separation. The magnetic concentrate recovered was weighed and analyzed for % Ni.

### Flotation Results

The results of the flotation procedure are shown in Table 7678-F4.

A detailed material balance of the Ni recovery at each stage of flotation is shown in Figure 2.

From Figure 2 and Table 7678-F4 it can be seen that 32.4% of the nickel in the original feed is recovered in the final sulphide cleaner flotation concentrate. The final



cleaner concentrate has a nickel grade of 3.44 % Ni.

According to Figure 2, this means that if the ore sent to flotation contains 0.118% Ni, as it is this case, then of the 2.36 lb of nickel per ton of ore, there is 0.76 lb of this nickel recovered in the sulphide flotation concentrate.

### Magnetic Separation Results

As indicated in Figure 2, up to 60% of the nickel in the ore remains in the talc concentrate (rougher, scavenger and sulphide flotation tails combined).

The use of magnetic separation was tested as a means of recovering a portion of this nickel from the talc rougher flotation concentrate. The talc rougher concentrate contains 0.99 lb of nickel from the original 2.36 lb of nickel in the ore feed.

The detailed material balance on the magnetic treatment of the talc rougher concentrate is shown in Table 7678-F4B.

As the results indicate the magnetic separation step only recovered 4.63% of the nickel contained in the talc rougher flotation concentrate. The grade of the magnetic concentrate is 2.40 %Ni. This means that the magnetic concentration step recovered only 0.041 lb of nickel in addition to the flotation treatment.



## SUMMARY

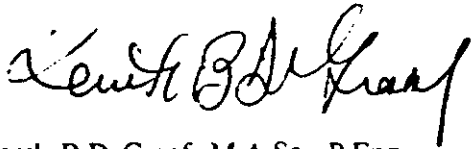
For the ore composite tested (0.118 %Ni), the flotation cleaner concentrate recovers 0.76 lb/ton of the original 2.36 nickel lb/ton in the ore. This represent a Ni recovery of 32.4% for a nickel concentrate containing 3.44 % Ni.

The magnetic separation treatment of the talc rougher concentrate indicates that an additional 0.041 lb/ton of the original 2.36 lb/ton of nickel can be recovered.

This increases the overall recovery of nickel to 33.2% for the combined flotation and magnetic separation stages.

Yours truly,

BACON, DONALDSON & ASSOCIATES LTD.



Kenneth B. DeGraaf, M.A.Sc., P.Eng.

KBD/jlb

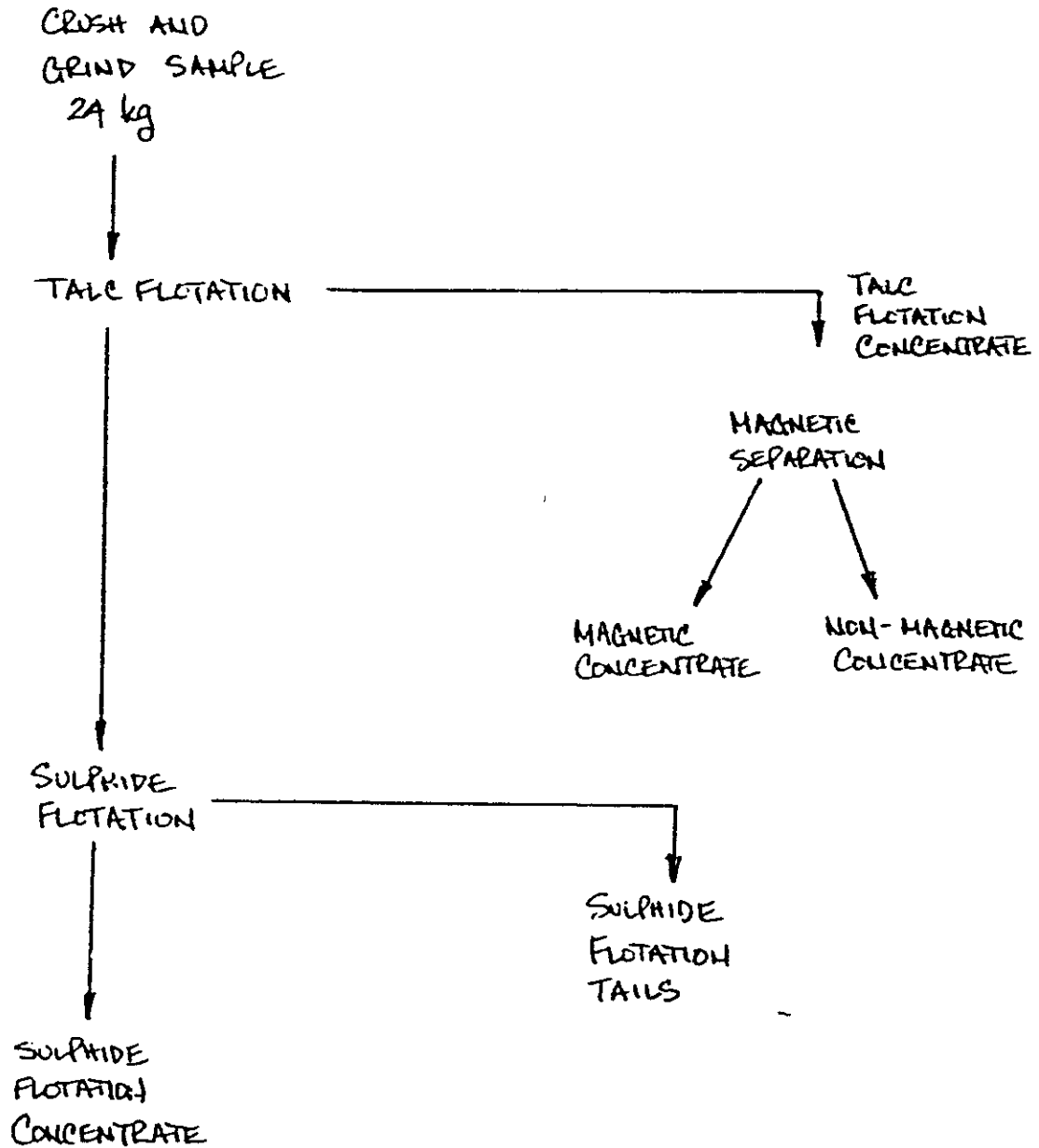
# BACON, DONALDSON & ASSOCIATES LTD.

PROJECT No. FIGURE 1 - 7678 DATE NOVEMBER 2, 1988

Subject TRIFCO MINERALS LTD



## SAMPLE TREATMENT PROCEDURE



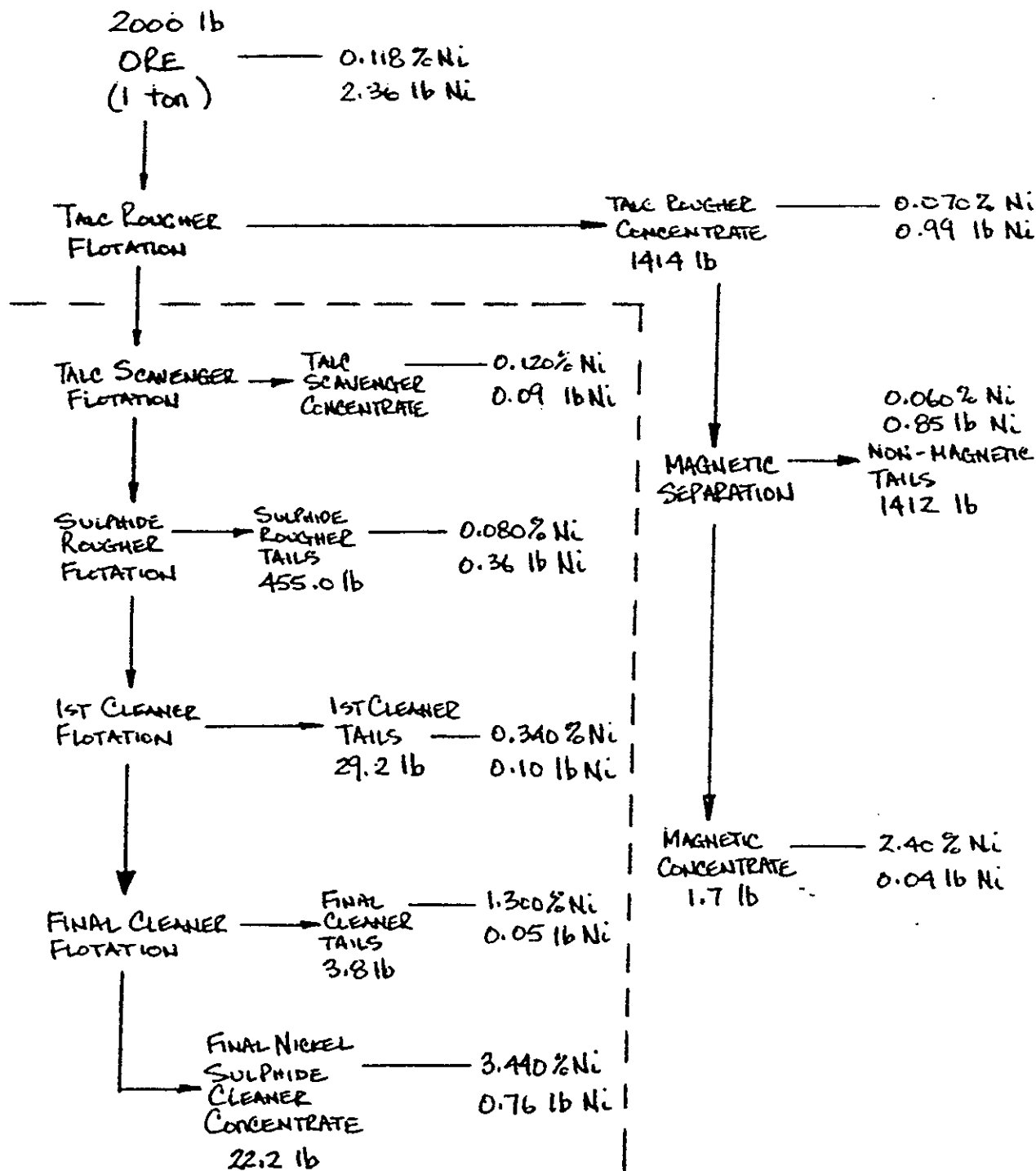


# BACON, DONALDSON & ASSOCIATES LTD.

PROJECT No. FIGURE 2 - 7678 DATE NOVEMBER 2, 1968  
 Subject TRIFCO MINERALS LTD



## NICKEL MATERIAL BALANCE FLOTATION AND MAGNETIC SEPARATION



TEST NUMBER: 7670-F4B Mag Separation on Talc Rougher Conc

PRODUCT	WEIGHT		ASSAYS				% DIST			
	GMS	%	%Ni	%Co	%Fe	%S	Ni	Co	Fe	S
Magnetic Conc	0.7	0.12	2.400	0.090	34.000	17.600	4.63	1.54	1.61	31.73
Non-Magnetic Tails	568.0	99.88	0.050	0.007	2.240	0.046	95.37	98.46	99.19	68.27
CALC HEAD	568.7	100.0	0.063	0.007	2.279	0.067				

TEST NUMBER: 7578-F4

PRODUCT	WEIGHT		ASSAYS				% BEST			
	GMS	%	%Si	%Co	%Fe	%S	%Si	%Co	%Fe	%S
:Final Cleaner Conc	258.6	1.11	3.448	0.220	44.810	44.608	32.39	38.83	13.76	89.38
:Final Cl Tails	45.4	0.19	1.300	0.056	13.400	6.786	2.15	1.73	0.72	2.39
:1ST Cl CONC	394.8	1.31	3.120	0.196	40.119	38.952	34.54	48.36	14.49	91.77
:1st Sulphide Cl Tail	339.4	1.46	0.348	0.017	0.048	1.298	4.28	3.82	3.24	3.39
:SULPHIDE RD CONC	643.4	2.76	1.654	0.101	23.197	19.885	38.74	44.27	17.73	95.16
:Sulphide Rd Tails	5299.8	22.75	0.080	0.005	5.088	0.865	15.43	17.99	32.04	2.97
:Talc Scavenger	882.0	3.79	0.120	0.007	4.630	0.299	3.85	4.19	4.85	2.04
:Talc Rougher	16467.8	70.70	0.070	0.003	2.329	0.001	41.97	33.54	45.38	0.13
:CALC HEAD	23292.2	100.0	0.118	0.006	3.614	0.554	100.0	100.0	100.0	100.0



# OREX Laboratories Ltd.

APPLIED MINERALOGY - PETROGRAPHY

428 - 510 West Hastings St., Vancouver, B.C. Canada V6B 1L8

Telephone: (604) 681-8598

MINERALOGICAL STUDY OF SAMPLE CREEK # 3

For  
TRIFCO MINERALS LTD.

By  
C. L. Soux, BSc.  
(October, 1988)

		(Conc. 1)	Creek #3T	(Tailings)	Creek #3S	(Slimes)		Creek #3
WEIGHT (gm)		26.45		610.00		63.00	TOT. WT. (gm)	699.45
WEIGHT (%)		3.78		87.21		9.01	TOT. WT. (%)	100.00
MINERALS	% Observed	% Relative	% Observed	% Relative	% Observed	% Relative		TOT. % REL.
Pyrite	55.00	2.08	0.73	0.64	0.73	0.07		2.78
Pyrrhotite	15.00	0.57	0.20	0.17	0.20	0.02		0.76
Pentlandite	4.00	0.15	0.05	0.04	0.05	0.00		0.20
Goethite	1.00	0.04	0.02	0.02	0.02	0.00		0.06
Chalcopyrite	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Galena	0.00	0.00	0.00	0.00	0.00	0.00		0.00
Gangue	25.00	0.95	99.00	86.34	99.00	8.92		96.20
TOTAL		3.78		87.21		9.01		100.00

Mineralogical Composition for Sample Creek #3

# MINERALOGRAPHIC REPORT

by C. L. Soux

**For:** Trifco Minerals Ltd.

**Project:**

**Sample:** Creek #3K

**Location:**

**Collector:**

**Date Analyzed:** Oct. 10'88

## MACROSCOPIC DESCRIPTION:

Final gravity concentrate of sample Creek #3, previously ground to 100% passing 2mm

## MICROSCOPIC ANALYSIS IN POLISHED SECTION

Abr.	Mineral	Chem. Formula	%	Description
Py.	Pyrite	Fe S <sub>2</sub>	55	Contains inclusions of Pyrr., Pent., Cpy., and Gn
Pyrr.	Pyrrhotite	Fe S	15	Intimately associated with Pent.
Pent.	Pentlandite	Ni <sub>9</sub> S <sub>8</sub>	4	Intimately associated with Pyrr.
Gt	Goethite	H Fe O <sub>2</sub>	1	Alteration product of Py. and Pyrr.
Cpy	Chalcopyrite	Cu Fe S <sub>2</sub>	<1	Inclusions in Pyrr.
Gn	Galena	Pb S	<1	As inclusions in Py.
Gg	Gangue		25	

## TEXTURES AND DESCRIPTION:

- This concentrate product contains 75% sulphides.
- Pyrite shows incipient alteration to goethite and contains inclusions of pyrrhotite, pentlandite, chalcopyrite, and galena.
- Pyrrhotite appears to be the earliest mineral to have formed in the paragenetic sequence. Pyrrhotite contains spindles and flame-like segregations of pentlandite.
- Pentlandite occurs as xenomorphic grains intimately associated with pyrrhotite. It also occurs as inclusions in the latter mineral.

## MINERALOGICAL REPORT ON SAMPLE CREEK #3

for  
Trifco Minerals Ltd.

by  
C. Soux, BSc., S. Feulgen, HBSc.

**Sample No:** Creek #3 **Date:** Oct. 10'88

**Location:**

**Type of product:** Grab Sample

**Submitted by:** Mr. Rene Trifaux Sr., Trifco Minerals Ltd.

**OBJECTIVES:** To establish the mineralogy of the sample, to identify the Ni-bearing minerals and their relative amounts, and to report the percentage of sulphides present in the sample.

**METHOD:** The sample was ground to 100% passing 2mm and then weighed. A aliquot portion of the slimes was taken and the remainder of the sample separated by gravity separation using a batea type pan. Two products were obtained from the gravity separation, namely, a concentrate (K) and a tailings (T) product. These products were weighed, and the weight of the slimes calculated as the difference from the total weight of the original sample. After homogenizing, a polished section was prepared of a representative subsample of the concentrate (K). The mineralogical analysis was done by observation of the polished section using a reflected light polarizing microscope. A subsample of the concentrate (K) was also sent for 31 element I.C.P.

**RESULTS:** The complete mineralogical analysis of the concentrate product (K) is given in the "Mineralographic Report" sheet included at the end of the report. The sample, as a whole, is composed primarily of gangue minerals (96%). Pentlandite is identified as the only Ni bearing mineral in the sample. Sulphides constitute approximately 4% of the sample (see Mineralogical Composition table). Of the total sulphide content, pentlandite makes up ~5%. Bearing in mind that pentlandite contains ~22% Ni, this correlates with the amount of Ni obtained by I.C.P. analysis of a subsample of the concentrate (Creek #3K).

**CONCLUSIONS:**

- The only Ni bearing mineral in the sample is pentlandite (0.2 % by weight).
- The sample contains 96% gangue minerals and 4% sulphides.
- Pentlandite accounts for 5% of the total sulphide content in the sample.

PROJECT NO:

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: B-1726/P1

ATTENTION:

(604)980-5814 OR (604)988-4524

\* TYPE ROCK GEOCHEM \*

DATE: OCTOBER 5, 1988

( PPM ) CREEK #3

	K
AG	1.5
AL	1370
AS	184
B	6
BA	4

BE	2.2
BI	10
CA	23260
CD	3.8
CO	676

CU	156
FE	259940
K	380
LI	6
MG	14730

MN	373
NO	2
NA	70
NI	8159
P	70

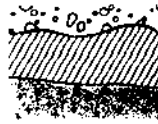
PB	198
SB	8
SR	22
TH	2
U	1

V	7.6
ZN	50
CA	4
ER	3
N	9
CR	434



Bondar-Clegg & Company Ltd.

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Telex: 04-352667



**BONDAR-CLEGG**

**Geochemical  
Lab Report**

*25/3*

TRIFCO MINERALS LTD.  
REF: TRTEAUX  
308 - 751 CLARKE ROAD  
COQUITLAM, B.C.  
V3J 3Y3



REPORT: V88 R67D1.B ( PARTIAL )

REFERENCE INFO: SHIPMENT #3 P004

CLIENT: TRIFCO MINERALS LTD.  
 PROJECT: WTR-TA MARG-2

SUBMITTED BY: R. TRITFAUX  
 DATE PRINTED: 2 SEP-88

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DEFLECTION LIMIT	EXTRACTION	METHOD
1	Au Gold - Fire Assay	14	5 PPM	FIRE-ASSAY	Fire Assay AA
2	Ag Silver	14	0.5 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
3	As Arsenic	14	5 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
4	Bi Bismuth	14	2 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
5	Cd Cobalt	14	1 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
6	Cr Chromium	14	1 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
7	Cu Copper	14	1 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
8	Mn Manganese	14	1 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
9	Mo Molybdenum	14	1 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
10	Ni Nickel	14	1 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
11	Pb Lead	14	5 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
12	Sb Antimony	14	5 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
13	Se Selenium	14	5 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
14	W Tungsten	14	10 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
15	Zn Zinc	14	1 PPM	HN03-HCl HOT EXTR	PLASMA EMISSION SPEC
16	Hg Mercury	14	5 PPM	HN03-HCl HOT EXTR	Cold Vapour AA
17	Ra Barium	14	20 PPM		X-RAY Fluorescence

RESULTS TO FOLLOW FOR: TE

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK OR PWD ROCK	14	2 150	14	CRUSH, PWL VERTZ	14

REPORT COPIES TO: RENE TRITFAUX

INVOICE TO: RENE TRITFAUX



REPORT: V88-1167R1.0

PROJECT: WTM-TA MARG-2

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPR	Ag PPM	As PPM	Pb PPM	Co PPM	Cr PPM	Cu PPM	Mn PPM	Mo PPM	Ni PPM	Pb PPM
R2 MARG-1-2 13		<5	<0.5	21	<2	177	621	178	537	<1	1094	35
R2 WTM-TA 01		3	0.6	43	<2	17	182	81	62	10	127	34
R2 WTM-TA 02		12 ✓	<0.5	50	5	15	166	81	65	14	121	39
R2 WTM-TA 03		12 ✓	1.1	9	<2	8	92	130	443	<1	64	30
R2 WTM-TA 04		11 ✓	0.5	<5	<2	5	56	51	459	<1	33	19
R2 WTM-TA 05		7	0.8	<5	6	5	74	49	450	2	37	16
R2 WTM-TA 06		<5	<0.5	14	<2	22	193	29	289	<1	438	15
R2 WTM-TA 07		8	<0.5	<5	<2	64	302	34	609	<1	1277	14
R2 WTM-TA 08		5	<0.5	<5	5	47	145	18	634	<1	1227	15
R2 WTM-TA 09		6	<0.5	<5	5	48	1163	11	579	<1	1234	8
R2 WTM-TA 10		5	<0.5	<5	6	64	1125	29	888	<1	1296	9
R2 WTM-TA 11		5	<0.5	<5	<2	49	1153	7	437	2	1509	11
R2 WTM-TA 12		<5	<0.5	<5	<2	55	228	10	584	<1	1207	<5
R2 WTM-TS 14		9	<0.5	<5	5	78	438	32	350	<1	1583	20

*graphite schists.*



REPORT: U88-06701.0

PROJECT: WTM-TA MARG-2

PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Se PPM	W PPM	Zn PPM	Hg PPB	Ba PPM
R2 MARG-L-2 13		11	45	23	71	160	770 <i>May 2</i>
R2 WTM-TA 01		<5	<5	<10	63	120	2600
R2 WTM-TA 02		<5	<5	<10	57	190	3100
R2 WTM-TA 03		<5	<5	<10	93	120	1700
R2 WTM-TA 04		<5	<5	<10	92	100	1800
R2 WTM-TA 05		<5	<5	<10	85	105	1500
R2 WTM-TA 06		9	27	<10	104	90	2200
R2 WTM-TA 07		<5	<5	<10	31	20	<20
R2 WTM-TA 08		<5	<5	<10	32	25	<20
R2 WTM-TA 09		<5	<5	<10	19	20	<20
R2 WTM-TA 10		<5	13	<10	11	40	<20
R2 WTM-TA 11		<5	<5	<10	16	20	<20
R2 WTM-TA 12		9	<5	<10	6	15	<20
R2 WTM-TS 14		<5	<5	<10	34	45	<20

*Graphic sheets*

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Geochemical  
Lab Report

Aug:

Invoice V 051 257

Refers V88 06701.

TRIFCO MINERALS LTD.  
RENE TRIFAUX  
308 - 751 CLARKE ROAD  
COQUITLAN, B.C.  
V3J 3Y3

\$395.50



REPORT: V88-D6701.0 ( PARTIAL )

REFERENCE INFO: SHIPMENT #3 P0#4

CLIENT: TRIFCO MINERALS LTD.

SUBMITTED BY: R. TRIFAUX

PROJECT: WIN-TA MARG-2

DATE PRINTED: 29-AUG-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - Fire Assay	14	5 PPR	FIRE-ASSAY	Fire Assay AA
2	Ba	Barium	14	20 PPM		X-RAY Fluorescence

RESULTS TO FOLLOW FOR: Ag As Bi Co Cr Cu Mn Mo Ni Pb Sb Se Ti W Zn Hg

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R TRUCK OF BED ROCK	14	20 - 150 μm	14	CRUSH, PULVERIZE - 150 μm	14

REPORT COPIES TO: RENE TRIFAUX

INVOICE TO: RENE TRIFAUX



REPORT: V88-06701.0

PROJECT: WTN-TA MARG-2

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ba PPM
R2 MARG-1 -2 13		<5	770
R2 WIM-TA 01		8	2600
R2 WIM-TA 02		12 ✓	3100
R2 WIM-TA 03		12 ✓	1700
R2 WIM-TA 04		11 ✓	1800
R2 WIM-TA 05		7	1500
R2 WIM-TA 06		<5	2200
R2 WIM-TA 07		8	<20
R2 WIM-TA 08		5	<20
R2 WIM-TA 09		6	<20
R2 WIM-TA 10		5	<20
R2 WIM-TA 11		5	<20
R2 WIM-TA 12		<5	<20
R2 WIM-TS 14		9	<20



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1  
PHONE (604) 984-0221

To: TRIFAU, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

A8825967

Comments: CC: BACON DONALDSON & ASSOC ATTN: RENNE TRIFAU

## CERTIFICATE A8825967

TRIFAU, R.  
PROJECT : 7678  
P.O.# : 61233

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 6-NOV-88.

## ANALYTICAL PROCEDURES

CHEMEX NUMBER		DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
CODE	SAMPLES				
321	2	Ni %: HClO4-HNO3 digestion	AAS	0.01	100.0
323	2	Co %: HClO4-HNO3 digestion	AAS	0.001	100.00
325	2	Fe(Tot) %: Peroxide-NaOH fusion	TITRATION	0.01	100.00
380	2	S %: Leco induction furnace	LECO-IR DETECTOR	0.001	100.0

## SAMPLE PREPARATION

CHEMEX NUMBER		DESCRIPTION
CODE	SAMPLES	
235	1	Pan concentrate: Ring pulverize
214	1	Received sample as pulp

### \* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

*Handwritten signature or initials.*





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V3J 3Y3

Page No. : 1  
Tot. Pages: 1  
Date : 30-OCT-88  
Invoice # : I-8825967  
P.O. # : 61233

Project : 7678

Comments: CC: BACON DONALDSON & ASSOC ATTN: RENNE TRIFAUX

## CERTIFICATE OF ANALYSIS A8825967

\*\*

SAMPLE DESCRIPTION	PREP CODE	Ni %	Co %	Fe tot %	S % (Leco)						
7678-I MAG CONC	214 --	2.40	0.090	34.00	17.60						
7678-J MAG TAIL	235 --	0.06	0.003	2.24	0.124						<i>Good</i>
**CORRECTED VALUES											

*R. Swaites*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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BRITISH COLUMBIA, CANADA V7J-2C1

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To: TRIFAUX, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

A8823309

Comments: ATTN: RENE TRIFAUX CC: BACON DONALDSON

## CERTIFICATE A8823309

TRIFAUX, R.  
PROJECT : 7678  
P.O.# : 50340

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 6-OCT-88.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
232	7	Total ICP digestion

*Redone free - No Subs\**

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
321	7	Ni %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion	AAS	0.01	100.0
554	7	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
556	7	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	7	Zn ppm: 24 element, rock & core	ICP-AES	2	10000
559	7	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	7	Pb ppm: 24 element, rock & core	ICP-AES	2	10000
561	7	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
562	7	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	7	Co ppm: 24 element, rock & core	ICP-AES	1	10000
564	7	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
565	7	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
566	7	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
568	7	Mn ppm: 24 element, rock & core	ICP-AES	1	10000
569	7	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
570	7	Mg %: 24 element, rock & core	ICP-AES	0.01	25.0
572	7	V ppm: 24 element, rock & core	ICP-AES	1	10000
573	7	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
575	7	Be ppm: 24 element, rock & core	ICP-AES	0.5	10000
576	7	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
577	7	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
578	7	Ag ppm: 24 element, rock & core	AAS	0.5	500
579	7	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
582	7	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
583	7	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
584	7	K %: 24 element, rock & core	ICP-AES	0.01	20.0
380	7	S %: Leco induction furnace	LECO-IR DETECTOR	0.001	100.0



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: TRIFAUX, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

Project: 7678

Comments: ATTN: RENE TRIFAUX CC: BACON DONALDSON

Page No. : 1-A  
Tot. Pages: 1  
Date : 21-SEP-88  
Invoice #: I-8823309  
P.O. #: 50340

*Bacon Donaldson*

## CERTIFICATE OF ANALYSIS A8823309

\*\* CORRECTED COPY FOR Ni%

SAMPLE DESCRIPTION	PREP CODE	Ni % **	Mo ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Ni ppm (ICP)	Ba ppm (ICP)	Fe % (ICP)	Mn ppm (ICP)	Cr ppm (ICP)
7678-1	232	0.14	< 1	< 10	34	80	6	< 2	0.5	68	1309	20	3.97	475	1355
7678-2	232	0.14	< 1	< 10	91	410	12	< 2	0.5	73	1315	140	5.02	639	2020
7678-3	232	0.19	< 1	< 10	77	< 10	10	< 2	0.5	68	1686	30	4.69	832	1715
7678-3 A	232	0.16	< 1	< 10	72	< 10	4	< 2	0.5	67	1438	20	4.40	437	1595
7678-4	232	0.15	< 1	< 10	35	< 10	2	< 2	< 0.5	71	1353	< 10	3.95	444	829
7678-5	232	0.12	< 1	< 10	62	< 10	8	< 2	< 0.5	77	1206	20	3.55	1285	1860
7678-6	232	< 0.01	< 1	< 10	14	430	16	< 2	< 0.5	6	38	940	1.36	93	160

*15-10-88*

*Rectified data for Ni in primary.*

*Wim-TA*

*[Signature]*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: TRIFAUX, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

Project : 7678

Comments: ATTN: RENE TRIFAUX CC: BACON DONALDSON

Page No. : 1-B  
Tot. Pages: 1  
Date : 21-SEP-88  
Invoice # : I-8823309  
P.O. # : 50340

## CERTIFICATE OF ANALYSIS A8823309

SAMPLE DESCRIPTION	PREP CODE	Mg % (ICP)	V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)	S % (Leco)		
7678-1	232	13.55	23	0.33	< 0.5	6.88	65	< 0.5	< 0.01	392	0.02	< 0.01	1.460		
7678-2	232	12.55	60	2.92	< 0.5	1.71	26	< 0.5	0.12	48	0.22	< 0.07	0.022		
7678-3	232	13.65	38	0.39	< 0.5	4.66	45	0.5	< 0.01	160	0.01	< 0.01	1.660		
7678-3 A	232	13.95	30	0.40	< 0.5	2.22	38	< 0.5	< 0.01	77	0.06	< 0.01	1.380		
7678-4	232	14.00	14	0.11	< 0.5	5.92	11	< 0.5	< 0.01	153	0.01	< 0.01	0.224		
7678-5	232	12.60	20	0.79	< 0.5	5.86	28	< 0.5	< 0.01	152	0.01	< 0.01	0.425		
7678-6	232	0.94	19	6.72	2.5	0.25	1	< 0.5	0.12	52	3.45	1.97	0.468		

*R. Trifaux*



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V3J 3Y3

Comments: ATTN: R TRIFAUX

A8822413

**CERTIFICATE A8822413**

## ANALYTICAL PROCEDURES

TRIFAUX, R  
PROJECT : WIM-WINTA  
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 15-SEP-88.

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
398	1	Au oz/T: 1/2 assay ton	FA-AAS	0.002	20.00
385	1	Ag oz/T: Aqua regia digestion	AAS	0.01	20.0
301	1	Cu %: HClO4-HNO3 digestion	AAS	0.01	100.0
321	1	Ni %: HClO4-HNO3 digestion	AAS	0.01	100.0
323	1	Co %: HClO4-HNO3 digestion	AAS	0.001	100.00
347	1	Sb %: Assay	NAA	0.001	100.0

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	1	Assay: Crush, split, ring



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V3J 3Y3

Project: WIM-WINTA  
Comments: ATTN: R. TRIFAUX

Page No.: 1  
Tot. Pages: 1  
Date: 15-SEP-88  
Invoice #: I-8822413  
P.O. #: NONE

## CERTIFICATE OF ANALYSIS A8822413

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Ag oz/T	Cu %	Ni %	Co %	Sb NAA %			
CH-NO1-N-O	208 --	0.002	< 0.01	< 0.01	< 0.01	< 0.001	< 0.001			
		<i>11/20/88</i>								<i>Analysed in 2010, before the 10/10/88</i>

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION: *R. Trifaux*



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To: TRIFAUX, R.  
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COQUITLAM, BC  
V3J 3Y3

A8823310

Comments: ATTN: RENE TRIFAUX CC: BACON DONALDSON

## CERTIFICATE A8823310

TRIFAUX, R.  
PROJECT : 7678  
P.O.# : 50340

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 27-SEP-88.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	1	Received sample as pulp

• NOTE 1:

Code 1000 is used for repeat gold analyses  
It shows typical sample variability due to  
coarse gold effects. Each value is  
correct for its particular subsample.

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion	AAS	0.01	100.0
321	1	Ni %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion	AAS	0.01	100.0
325	1	Fe(Tot) %: Peroxide-NaOH fusion	TITRATION	0.01	100.00
379	1	S %: HNO <sub>3</sub> -bromide digestion	GRAVIMETRIC	0.01	100.00



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V3J 3Y3

Project: 7678

Comments: ATTN: RENE TRIFAUX CC: BACON DONALDSON

Page No. : 1  
Tot. Pages: 1  
Date : 27-SEP-88  
Invoice #: I-8823310  
P.O. #: 50340

## CERTIFICATE OF ANALYSIS A8823310

SAMPLE DESCRIPTION	PREP CODE	Cu %	Ni %	Fe tot %	S %						
7678-7	214 --	< 0.01	0.14	41.18	43.85						

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CERTIFICATION :





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 V3J 3Y3

A8824738

Comments: CC: BACON DONALDSON

## CERTIFICATE A8824738

TRIFAUX, R.  
 PROJECT : 7678  
 P.O.# : 61214

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 15-OCT-88.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
235	1	Pan concentrate: Ring pulverize
232	1	Total ICP digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
445	1	Weight g	BALANCE	0.01	N/A
321	1	Ni %: HClO4-HNO3 digestion	AAS	0.01	100.0
323	1	Co %: HClO4-HNO3 digestion	AAS	0.001	100.00
323	1	Fe(Tot) %: Peroxide-NaOH fusion	TITRATION	0.01	100.00
380	1	S %: Leco induction furnace	LECO-IR DETECTOR	0.001	100.0
554	1	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
556	1	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	1	Zn ppm: 24 element, rock & core	ICP-AES	2	10000
559	1	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	1	Pb ppm: 24 element, rock & core	ICP-AES	2	10000
561	1	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
562	1	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	1	Co ppm: 24 element, rock & core	ICP-AES	1	10000
564	1	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
565	1	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
566	1	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
568	1	Mn ppm: 24 element, rock & core	ICP-AES	1	10000
569	1	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
570	1	Mg %: 24 element, rock & core	ICP-AES	0.01	25.0
572	1	V ppm: 24 element, rock & core	ICP-AES	1	10000
573	1	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
575	1	Be ppm: 24 element, rock & core	ICP-AES	0.5	10000
576	1	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
577	1	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
578	1	Ag ppm: 24 element, rock & core	AAS	0.5	500
579	1	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
582	1	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
583	1	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
584	1	K %: 24 element, rock & core	ICP-AES	0.01	20.0



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To: TRIFAUX, R.  
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308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3  
Project: 7678  
Comments: CC: BACON DONALDSON

Page No. : 1-A  
Tot. Pages: 1  
Date : 15-OCT-88  
Invoice #: 1-8824738  
P.O. #: 61214

## CERTIFICATE OF ANALYSIS A8824738

SAMPLE DESCRIPTION	PREP CODE	Weight grams	Ni %	Co %	Fe tot %	S % (Leco)	Mo ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Bi ppm (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Ni ppm (ICP)	Ba ppm (ICP)	Fe % (ICP)	Mn ppm (ICP)	Cr ppm (ICP)	Mg % (ICP)
7678 G	235 232	13.70	3.44	0.220	44.81	44.6	< 1	< 10	898	380	274	74	< 0.5	2270	>10000	30	>25.0	152	231	0.56

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :

*B. Coughlin*



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To TRIFAU, R.  
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COQUITLAM, BC  
V3J 3Y3  
Project : 7678  
Comments: CC: BACON DONALDSON

Page No. : 1-B  
Tot. Pages: 1  
Date : 15-OCT-88  
Invoice #: I-8824738  
P.O. # : 61214

## CERTIFICATE OF ANALYSIS A8824738

SAMPLE DESCRIPTION	PREP CODE	V ppm	Al %	Be ppm	Ca %	Cu ppm	Ag ppm	Ti %	Sr ppm	Na %	K %
		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	AAS	(ICP)	(ICP)	(ICP)	(ICP)
7678 G	235 232	< 1	0.61	< 5.0	0.65	739	46.6	< 0.01	25	0.11	< 0.01

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION : *B. Coughlin*



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To: TRIFAU, R.  
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308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

A8825968

Comments: ATTN: R. TRIFAU CC: BACON DONALDSON

## CERTIFICATE A8825968

TRIFAU, R.  
PROJECT : 7678  
P.O.# : 61232

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 6-NOV-88.

### SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	1	Received sample as pulp
232	1	Total ICP digestion

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
554	1	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
556	1	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	1	Zn ppm: 24 element, rock & core	ICP-AES	2	10000
559	1	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	1	Pb ppm: 24 element, rock & core	ICP-AES	2	10000
561	1	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
562	1	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	1	Co ppm: 24 element, rock & core	ICP-AES	1	10000
564	1	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
565	1	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
566	1	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
568	1	Mn ppm: 24 element, rock & core	ICP-AES	1	10000
569	1	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
570	1	Mg %: 24 element, rock & core	ICP-AES	0.01	25.0
572	1	V ppm: 24 element, rock & core	ICP-AES	1	10000
573	1	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
575	1	Be ppm: 24 element, rock & core	ICP-AES	0.5	10000
576	1	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
577	1	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
578	1	Ag ppm: 24 element, rock & core	AAS	0.5	200
579	1	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
582	1	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
583	1	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
584	1	K %: 24 element, rock & core	ICP-AES	0.01	20.0
321	1	Ni %: HClO4-HNO3 digestion	AAS	0.01	100.0
323	1	Co %: HClO4-HNO3 digestion	AAS	0.001	100.00
325	1	Fe(Tot) %: Peroxide-NaOH fusion	TITRATION	0.01	100.00
380	1	S %: Leco induction furnace	LECO-IR DETECTOR	0.001	100.0



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To: TRIFAUX, R.  
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V3J 3Y3

Project: 7678  
Comments: ATTN: R. TRIFAUX CC: BACON DONALDSON

Page No.: 1-A  
Tot. Pages: 1  
Date: 6-NOV-88  
Invoice #: I-8825968  
P.O. #: 61232

## CERTIFICATE OF ANALYSIS A8825968

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	W ppm	Zn ppm	P ppm	Pb ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	Fe %	Mn ppm	Cr ppm	Mg %
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
7678 TALC FL CON	214	232	2	< 10	97	60	18	< 2	< 0.5	46	1199	10	3.85	483	1110	17.75

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION :

*B. Coughlin*



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V3J 3Y3

Project: 7678

Comments: ATTN: R. TRIFAUX CC: BACON DONALDSON

Page No.: 1-B  
Tot. Pages: 1  
Date: 6-NOV-88  
Invoice #: I-8825968  
P.O. #: 61232

## CERTIFICATE OF ANALYSIS A8825968

SAMPLE DESCRIPTION	PREP CODE		V ppm (ICP)	Al % (ICP)	Be ppm (ICP)	Ca % (ICP)	Cu ppm (ICP)	Ag ppm AAS	Ti % (ICP)	Sr ppm (ICP)	Na % (ICP)	K % (ICP)	Ni %	Co %	Fe tot %	S % (Leco)
	7678 TALC FL CON	214	232	17	0.47	< 0.5	2.76	7	3.0	< 0.01	80	0.02	< 0.01	0.07	0.003	2.32

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION:

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V3J 3Y3

A8821386

Comments:

## CERTIFICATE A8821386

TRIFAU, R.  
PROJECT : MINITA  
P.O.# : 9

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 25-AUG-88.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	6	Assay: Crush, splitting

• NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
398	6	Au oz/T: 1/2 assay ton	FA-AAS	0.002	20.00
6	6	Ag ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	0.2	200
8	6	Ni ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	1	10000
9	6	Co ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	1	10000



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COQUITLAM, BC  
V3J 3Y3

Project: MINITA

Comments:

Page No. : 1  
Tot. Pages: 1  
Date : 25-AUG-88  
Invoice #: I-8821386  
P.O. #: 9

## CERTIFICATE OF ANALYSIS A8821386

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Ag ppm Aqua R	Ni ppm	Co ppm					
SAMPLE 1	208 ---	0.002	0.3	52	9					
SAMPLE 2	208 ---	0.002	0.5	53	10					
SAMPLE 3	208 <<	0.002	0.2	37	10					
SAMPLE 4	208 ---	0.002	0.2	28	7					
SAMPLE 5	208 ---	0.002	0.3	35	7					
SAMPLE 6	208 ---	< 0.002	0.3	33	8					

*V. J. Lavoie*

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :





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COQUITLAM, BC  
V3J 3Y3

A8821463

Comments:

## CERTIFICATE A8821463

TRIFAUX, R.  
PROJECT : WIM-TA  
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 25-AUG-88.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Rock Geochem: Crush,split,ring

### • NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	5	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
	4	Pb ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	1	10000
	5	Zn ppm: HNO <sub>3</sub> -aqua regia digest	AAS	5	10000
	6	Ag ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	0.2	200



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To: TRIFAU, R.  
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COQUITLAM, BC  
V3J 3Y3

Project: WIM-TA

Comments:

Page No. : 1  
Tot. Pages: 1  
Date : 25-AUG-88  
Invoice # : I-8821463  
P.O. # : NONE

## CERTIFICATE OF ANALYSIS A8821463

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R				
CH NO1 GR SCHIST	205 ---		37	93	0.4				
CH NO2 GR SCHIST	205 ---		28	81	1.1				
CH NO3 GR SCHIST	205 ---		16	247	1.6				
CH NO4 GR SCHIST	205 ---		25	194	1.6				
CH NO5 GR SCHIST	205 ---		75	71	0.4				

CERTIFICATION : Hart Bichler



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: TRIFAU, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

A8821385

Comments:

CERTIFICATE A8821385

## ANALYTICAL PROCEDURES

TRIFAU, R.  
PROJECT : MINITA  
P O # : A

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 25-AUG-88.

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
398	12	Au oz/T: 1/2 assay ton	FA-AAS	0.002	20.00
6	12	Ag ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	0.2	100
8	12	Ni ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	1	10000
9	12	Co ppm: HNO <sub>3</sub> -aqua regia digest	AAS-BKGD CORR	1	10000

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	12	Assay: Crush, split, ring

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: TRIFAUX, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUILLAM, BC  
V3J 3Y3

Project: MINITA

Comments:

Page No.: 1  
Tot. Pages: 1  
Date: 25-AUG-88  
Invoice #: I-8821385  
P.O. #: 8

## CERTIFICATE OF ANALYSIS A8821385

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Ag ppm Aqua R	Ni ppm	Co ppm						
H1 EX1 LN 2-9 CM	208 ---	< 0.002	1.1	1060	61						
H1 EX1 LN2-5.5CM	208 ---	< 0.002	1.4	1030	64						
H1 EX1 LN 2-5 CM	208 ---	< 0.002	0.4	1100	54						
H3 EX1 LN 1-1	208 ---	< 0.002	0.4	990	59						
H3 EX1 LN 1-2	208 ---	< 0.002	0.1	920	75						
H3 EX1 LN 2-1	208 ---	< 0.002	0.2	1080	79						
H6 EX1 LN 2-1	208 ---	< 0.002	0.2	955	49						
SAMPLE 6	208 ---	< 0.002	0.6	1180	76						
SAMPLE 7	208 ---	< 0.002	0.2	1500	83						
SAMPLE 8	208 ---	< 0.002	0.3	1330	78						
SAMPLE 9	208 ---	< 0.002	0.1	1350	76						
SAMPLE 10	208 ---	< 0.002	0.1	1250	72						

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :

*R. J. Swartz*



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

211 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-1C1

PHONE (604) 984-0211

To: TRIFAUX, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

A8824737

Comments: CC: BACON DONALDSON

## CERTIFICATE A8824737

TRIFAUX, R.  
PROJECT : 7678  
P.O.# : 61214

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 11-OCT-88.

## SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	4	Received sample as pulp

\* NOTE 1:

Code 1000 is used for repeat gold analyses  
It shows typical sample variability due to  
coarse gold effects. Each value is  
correct for its particular subsample.

## ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
321	4	Ni %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion	AAS	0.01	100.0
323	4	Co %: HClO <sub>4</sub> -HNO <sub>3</sub> digestion	AAS	0.001	100.00
125	4	Fe(Tot) %: Peroxide-NaOH fusion	TITRATION	0.01	100.00
180	4	S %: Leco induction furnace	LECO-IR DETECTOR	0.001	100.0
445	4	Weight g	BALANCE	0.01	N/A



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212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 954-0221

To: TRIFAUX, R.  
TRIFCO MINERALS LTD.  
308 - 751 CLARKE RD.  
COQUITLAM, BC  
V3J 3Y3

Project: 7678

Comments: CC: BACON DONALDSON

Page No. : 1  
Tot. Pages: 1  
Date : 11-OCT-88  
Invoice #: I-8824737  
P.O. #: 61214

## CERTIFICATE OF ANALYSIS A8824737

SAMPLE DESCRIPTION	PREP CODE	Ni %	Co %	Fe tot %	S % (Leco)	Weight grams					
7678 D <sup>9</sup>	214	0.12	0.007	4.63	0.299	118.20					
7878 E <sup>7</sup>	214	0.08	0.005	5.09	0.065	142.60					
7678 F	214	0.34	0.017	8.04	1.290	149.20					
7678 H <i>centri. hyp &amp; in talc</i>	214	1.30	0.056	13.40	6.78	43.30					

2210  
10.013  
132

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :

*W. Santomaria*

**MIN-EN LABORATORIES LTD.**

*Specialists in Mineral Environments*

705 West 15th Street North Vancouver, B.C. Canada V7W 1T2

PHONE: (604) 980-5814 OR (604) 988-4324

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: TRIFCO MINERALS LTD.  
Project: WIM-WIM TA  
Attention: R. TRIFALUX

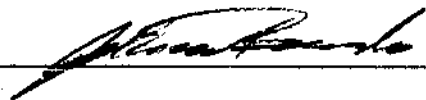
File: 8-461/P1  
Date: MAY 5/88  
Type: ASSAY

We hereby certify the following results for samples submitted.

Sample Number	MGC03 MAGNESITE
TEST HOLE A	18.17
TEST HOLE B	4.85
TEST HOLE C	5.76
TEST HOLE D	3.16
TEST HOLE E	13.84

*Test Holes*

Certified by



MIN-EN LABORATORIES LTD.



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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9821

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

Analytical Report

Company: TRIFCO MINERALS LTD.  
Project: WIM-WIM TA  
Attention: R. TRIFAUX

File: B-461  
Date: MAY 5/88  
Type: SOIL GEOCHEM

Date Samples Received : APRIL 29/88  
Samples Submitted by : R. TRIFAUX

Report on ..... 5 SOILS ..... Geochem Samples  
.....  
..... Assay Samples  
.....

Copies sent to:

1. TRIFCO MINERALS, COQUITLAM, B.C.
- 2.
- 3.

Samples: Sieved to mesh .....-80..... Ground to mesh .....

Prepared samples stored: .....X..... discarded: .....  
rejects stored: ..... discarded: .....X.....

Methods of analysis:

- 31 ELEMENT TRACE ICP..
- 26 MAJOR ICP.
- MGC03 - LEACH.

Remarks



COMPANY: TRIFCO MINERALS LTD.

MIN-EN LABS ICP REPORT

(ACT:F26) PAGE 1 OF 1

PROJECT NO: WIN-WIN TA

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-461

ATTENTION: R. TRIFAUX

(604)980-5814 BR (604)988-4524

TYPE SOIL GEOCHEM DATE: MAY 5, 1988

( % ) TEST HDL TEST HDL TEST HDL TEST HDL TEST HDL

*Test Pils. WIN-WIN TA 1988-89*

	E A	E B	E C	E D	E E
AL2O3	8.74	18.37	19.94	15.45	6.63
BA	.031	.126	.139	.119	.014
BE	.001	.001	.001	.001	.001
CAO	.81	.86	1.21	.78	.52
CO	.136	.011	.005	.005	.053

CR2O3	.14	.02	.02	.02	.31
CU	.005	.005	.005	.005	.010
FE2O3	6.94	7.20	7.94	6.30	6.98
K2O	.52	3.46	3.54	2.72	.25
MGO	13.04	2.88	3.31	2.14	21.28

MNO2	.07	.16	.19	.13	.10
MO	.005	.005	.005	.005	.005
NA2O	.36	1.24	1.61	1.20	.24
NB	.01	.01	.01	.01	.01
NI	.158	.019	.015	.009	.137

P2O5	.19	.19	.21	.19	.15
PB	.034	.019	.030	.021	.034
RB	.01	.22	.01	.18	.01
SiO2	63.16	57.96	60.65	66.39	57.56
SN	.012	.008	.009	.010	.012

SR	.01	.02	.02	.02	.01
TiO2	.50	.86	.91	.94	.22
V	.011	.021	.023	.019	.006
W	.016	.018	.021	.017	.015
ZN	.009	.012	.011	.013	.008

ZR	.016	.020	.016	.025	.005
LOIX	5.40	3.90	4.30	3.00	3.20
SZ	.01	.01	.01	.01	.01

(PPM) TEST HOL TEST HOL TEST HOL TEST HOL TEST HOL

	E A	E B	E C	E D	E E
AG	.6	.5	.3	.3	.3
AL	29790	21260	25690	18440	22200
AS	49	3	41	31	91
B	1	1	2	1	1
BA	215	114	171	158	30

Wim-wim/9

BE	2.4	.9	1.0	.6	1.3
BI	5	8	12	6	3
CA	5770	3590	5190	2310	3130
CD	.1	.5	.5	.2	.6
CO	23	17	20	14	33

CU	1	28	33	32	1
FE	32400	42100	43910	35140	25590
K	2270	1880	2700	1700	440
LI	28	21	23	16	23
MG	51200	13260	15450	8830	42740

Ni. 1420/100  
 NB 90  
 No. 40  
 1500  
 710/100  
 1200/100  
 Y = 376  
 171  
 270  
 188  
 276

MN	348	726	800	554	473
MO	1	5	4	5	1
NA	30	170	410	130	30
NI	356	104	91	64	528
P	560	730	790	860	280

PB	8	20	26	21	8
SB	2	4	1	5	3
SR	7	21	37	27	5
TH	2	4	4	5	3
U	2	3	1	2	1

W. 016 = 144 ppm  
 019 = 162 ppm  
 021 = 213 ppm  
 017 = 156 ppm  
 015 = 135 ppm  
 23 - 11 ppm  
 108 ppm  
 99 ppm  
 112 ppm  
 24 144  
 180  
 144  
 225

V	77.2	64.9	81.9	52.7	51.6
ZN	68	117	101	106	44
GA	41	116	20	18	40
SN	3	3	7	6	2
W	3	1	1	1	3
CR	641	84	87	59	1331

11  
 11  
 11



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TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

***Analytical Report***

Company: TRIFCO MINERALS  
Project: WIM-TA  
Attention: R. TRIFAUX

File: 8-1286  
Date: AUGUST 29/88  
Type: ROCK GEOCHEM

Date Samples Received : AUGUST 23/88  
Samples Submitted by : R. TRIFAUX

Report on ..... 24 ROCKS..... Geochem Samples  
.....  
..... Assay Samples  
.....

Copies sent to:  
1. TRIFCO MINERALS, COQUITLAM, B.C.  
2.  
3.

Samples: Sieved to mesh ..... Ground to mesh ..... -100....

Separated samples stored: ..... X..... discarded: .....  
rejects stored: ..... discarded: ..... X.....

Methods of analysis:  
  
AG NI CO - MULTI ACID.A.A.  
AU - FIRE GEOCHEM.

Remarks

*Certificate of GEOCHEM*

Company: TRIFCO MINERALS  
Project: WIM-TA  
Attention: R. TRIFAUX

File: 8-1286/P1  
Date: AUG 24/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	NI PPM	CO PPM	AG PPM	AU-FIRE PPB
H6-L3-BOX1-5-1	1320	54	1.2	1
H6-L3-BOX1-5-2	1200	57	1.6	1
H6-L3-BOX1-5-3	1400	49	1.3	1
H1-L2-BOX1-5'9-1	1220	47	1.2	2
H1-L2-BOX1-5'9-2	1240	52	1.0	1
-----				
H1-L2-BOX1-5'9-3	1330	43	1.0	1
H3-L2-BOX1-9-15-1	1220	42	1.0	8
H1-L2-BOX1-5-1	1400	81	1.2	4
H1-L2-BOX1-5-2	1050	40	1.3	2
H1-L2-BOX1-5-3	1030	56	1.2	3
-----				
H3-L1-BOX1-0-9-1	1060	42	1.0	1
H3-L1-BOX1-0-9-2	1290	49	1.0	1
ULTRA BASEIC#1	1210	50	1.2	2
ULTRA BASEIC#2	1700	60	1.4	2
ULTRA BASEIC#3	1430	52	1.2	4
-----				
ULTRA BASEIC#4	1430	56	1.2	1
ULTRA BASEIC#5	1650	58	1.4	1
GRAPHITIC SOLIST#1	37	16	.8	2
GRAPHITIC SOLIST#2	50	22	1.0	1
GRAPHITIC SOLIST#3	38	19	.8	1
-----				
GRAPHITIC SOLIST#4	60	29	1.2	2
GRAPHITIC SOLIST#5	52	26	1.4	1
GRAPHITIC SOLIST#6	44	24	1.2	1
GRAPHITIC SOLIST#7	51	20	1.0	1

Certified by \_\_\_\_\_



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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST PROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9998

Certificate of GEOCHEM

Company: TRIFCO MINERALS  
Project: WIM-TA  
Attention: R. TRIFAUX

File: 8-1286/P1  
Date: AUG 24/88  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	NI PPM	CO PPM	AG PPM	AU-FIRE PPB			
H6-L3-BOX1-5-1 <i>core</i>	1320	54	1.2	1	2.60	15.124	1.750
H6-L3-BOX1-5-2 "	1200	57	1.6	1	2.40	14.400	1.830
H6-L3-BOX1-5-3 "	1400	49	1.3	1	2.70	16.800	1.850
H1-L2-BOX1-5'9-1 "	1220	47	1.2	2	2.44	12.200	1.750
H1-L2-BOX1-5'9-2 "	1240	52	1.0	1	2.48	12.400	1.750
H1-L2-BOX1-5'9-3 "	1330	43	1.0	1	2.46	13.300	1.750
H3-L2-BOX1-9-15-1 "	1220	42	1.0	8	2.40	12.200	1.750
H1-L2-BOX1-5-1 "	1400	81	1.2	4	2.70	14.000	1.750
H1-L2-BOX1-5-2 "	1050	40	1.3	2	2.10	10.500	1.750
H1-L2-BOX1-5-3 "	1030	56	1.2	3	2.00	10.300	1.750
H3-L1-BOX1-0-9-1 "	1060	42	1.0	1	2.12	10.600	1.750
H3-L1-BOX1-0-9-2 "	1290	49	1.0	1	2.10	12.900	1.750
ULTRA BASEIC#1 "	1210	50	1.2	2	3.42	12.100	1.750
ULTRA BASEIC#2 "	1700	60	1.4	2	3.40	17.000	1.750
ULTRA BASEIC#3 "	1430	52	1.2	4	2.75	14.300	1.750
ULTRA BASEIC#4 "	1430	56	1.2	1	2.75	14.300	1.750
ULTRA BASEIC#5 "	1650	58	1.4	1	3.10	16.500	1.750
GRAPHITIC SOLIST#1	37	16	.8	2	3.10	3.700	1.750
GRAPHITIC SOLIST#2	50	22	1.0	1	4.30	5.000	1.750
GRAPHITIC SOLIST#3	38	19	.8	1	3.30	3.800	1.750
GRAPHITIC SOLIST#4	60	29	1.2	2			1.750
GRAPHITIC SOLIST#5	52	26	1.4	1			1.750
GRAPHITIC SOLIST#6	44	24	1.2	1			1.750
GRAPHITIC SOLIST#7	51	20	1.0	1			1.750

$\sqrt{2}$   
G.M.E.  
 $\frac{1650 \times 100}{450} = 366.7$

OK  
 $\frac{15}{217}$   
 $\frac{15}{217}$   
 $\frac{15}{217}$   
 $\frac{15}{217}$

Certified by *R. Trifaux*  
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TELEX: VIA U.S.A. 7601087 • FAX (604) 980-9821

TIMMINS OFFICE:  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

## Certificate of ASSAY

Company: MR. TRIPAUX  
Project: *WIMTO - Tab ou k 3*  
Attention: MR. TRIPAUX

File: B-1726/P1  
Date: OCT. 13/88  
Type: PULP ASSAY

We hereby certify the following results for samples submitted.

Sample Number	NI %	
DREEK #3K	1.41	<i>concentrate m<sup>ch</sup>ms tail</i>
	<i>3320 #</i>	

Certified by *Emjwab*

MIN-EN LABORATORIES LTD.

COMPANY: TRIFCO MINERAL LTD.

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: WIM-TA

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-1796/P1

ATTENTION: R. TRIFAUX

(604)980-5814 OR (604)988-4524

‡ TYPE PULP GEOCHEM ‡

DATE: OCT 19, 1988

(VALUES IN PPM )	AG	AS	CD	CU	FE	MO	NI	PB	SB	ZN	W	CR	AU-PPB
CREEKN0.3T	1.3	29	72	7	40010	1	1186	6	1	24	2	691	
#1	1.4	7	78	8	38360	2	1372	13	1	34	2	693	1
#2	.4	34	45	24	24300	4	999	39	1	135	3	583	2



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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

*Certificate of ASSAY*

Company: TRIFCO MINERALS  
Project: WIM-TA  
Attention: R. TRIFAUX

File: 8-1796/P1  
Date: OCT. 18/88  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	NI %
CREEK NO. 3T	.12
#1	.16
#2	.11

Certified by

MIN-EN LABORATORIES LTD.





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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

**TIMMINS OFFICE:**  
33 EAST IROQUOIS ROAD  
P.O. BOX 867  
TIMMINS, ONTARIO CANADA P4N 7G7  
TELEPHONE: (705) 264-9996

***Analytical Report***

Company: TRIFCO MINERALS  
Project: WIM-TA  
Attention: R. TRIFAUX

File: 8-1796  
Date: OCT. 18/88  
Type: PULP & CON.

Date Samples Received : OCT. 13/88  
Samples Submitted by : R. TRIFAUX

Report on ..... 2 PULP..... Geochem Samples  
.....  
..... 1 CON..... Assay Samples  
.....

Copies sent to:  
1. TRIFCO MINERALS, COQUITLAM, B.C.  
2.  
3.

Samples: Sieved to mesh ..... Ground to mesh .....-200.....  
Separated samples stored:.....X..... discarded:.....  
rejects stored:.....X..... discarded:.....

Methods of analysis:  
  
NI-ACID DIGESTION CHEMICAL ANALYSIS  
12 ELEMENT TRACE ICP  
AU-FIRE GEOCHEM

Remarks



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**VANCOUVER OFFICE:**  
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*Analytical Report*

Company: TRIFCO MINERALS  
Project: WIM-WINTA  
Attention: R. TRIFAUX

File: 8-1871  
Date: NOV. 2/88  
Type: HEAVY MINERAL

Date Samples Received : OCT. 21/88  
Samples Submitted by : R. TRIFAUX

Report on ..... 12 HEAVY MINERAL ..... ~~Geochem~~ Samples  
.....  
..... Assay Samples  
.....

- Copies sent to:
1. TRIFCO MINERALS, COQUITLAM, B.C.
  - 2.
  - 3.

Samples: Sieved to mesh ..... Ground to mesh ..... -100.....  
Prepared samples stored: ..... X ..... discarded: .....  
rejects stored: ..... discarded: ..... X .....

Methods of analysis:

NI CO-MULTI ACID A.A.  
AU PT FD-FIRE  
HEAVY MINERALS-SPECIFIC GRAVITY FLOATATION  
AND ROUTINE GEOCHEM ANALYSIS

Remarks



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TELEPHONE: (705) 264-9996

*Certificate of GEOCHEM*

Company: TRIFCO MINERALS  
Project: WIM-WINTA  
Attention: R. TRIFAUX

File: 8-1871/P1  
Date: NOV 2/88  
Type: HEAVY MINERAL

We hereby certify the following results for samples submitted.

Sample Number	NI PPM	CO FPM	HM %	AU-FIRE PPB	PT-FIRE PPB	PD-FIRE PPB
ROCK NON-MAG	224	152	.88	63	70	13
ROCK MAG	850	500	1.00	5	7	2

Certified by

MIN-EN LABORATORIES LTD.