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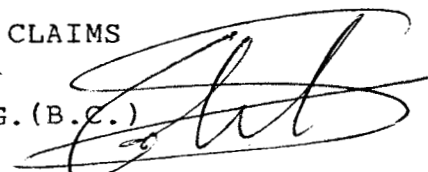
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1983 PROPERTY REPORT

TITLE: 1983 PROPERTY REPORT:
BANKER - SPARLING GROUP OF CLAIMS

AUTHOR: GUILLERMO SALAZAR S., P.ENG. (B.C.) 

DATE: DECEMBER 25, 1983

COMMODITIES: SILVER, GOLD, LEAD, ZINC

LOCATION: AREA: N.W. B.C.
MINING DIVISION: ATLIN
COORDINATES: LATITUDE: 58°41'N
LONGITUDE: 133°35'W
ELEVATION: 30 to 350m.
ABOVE SEA LEVEL

NTS: 104K/12E

CLAIMS: JANET W No. 1 to 8, JOKER, VEGA No. 1 to 5,
VEGA FRACTION, ALL CROWN GRANTS AND
TALLON No. 1 (9 UNITS) AND No. 2 (20 UNITS)

WORK DESCRIBED: SOIL GEOCHEMICAL AND CHIP SAMPLING
ALONG OLD TRENCH WALLS

DATES OF WORK: AUGUST 10-20, 1983

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,707

(i)

SUMMARY

The 1983 program at the Banker and Sparling showings is described and analyzed in the context of data available to the writer dating back to 1941. The Banker and Sparling showings are situated along the eastern bank of the Tulsequah River, near its confluence with the Taku River, opposite the Polaris-Taku Mine, in the Atlin Mining Division (NTS 104K/12E). The property is now owned by Silver Takon Mines Ltd.

Last year's program consisted of chip-channel resampling of the Banker showing and soil geochemical grid sampling of both Banker and Sparling areas. All samples were analyzed or assayed for silver, lead and zinc, as required. All rock samples were analyzed for gold as well. Soil samples, in turn, were also analyzed for arsenic. All soil samples anomalous in silver and arsenic were analyzed for gold.

A number of anomalies were defined, and a program budgeted at \$143,323.22 is recommended.

CONCLUSIONS

The following is concluded:

1: Re-sampling of Banker trenches did not reproduce the 800(+) o/t silver assays reported previously. No satisfactory explanation can be given for this discrepancy. It is recommended that portions of the trench walls be re-blasted and re-sampled.

2: The Sparling showing is defined as covering an area about 420m. x 200m. elongated northwesterly underlain by a volcanic package of rocks similar to that present at the Tulsequah Chief and Big Bull orebodies. Galena and sphalerite mineralization along stringers and veins are exposed by very old trenches throughout the area.

3: The soil geochemical survey found the following:

3.1: The Banker showing is a geochemically anomalous Bull's Eye in all elements.

3.2: The Sparling showing, where surveyed, shows as a strongly silver-arsenic anomalous area. Here, strong silver and arsenic anomalies are open to the northeast or towards a draw interpreted by Cominco in 1957 to represent the on-trend continuation of the Tulsequah Chief

shear. Three diamond drill holes tested the northern third of this anomaly, with uneconomic results.

A well-defined gold-silver-arsenic anomaly extends from L910+OON=180+OOE (0.034 o/t Au) through L970+OON-220+OOE (0.054 o/t Au) to L1060+OON-210+OOE requires immediate investigation.

L910+OON-130+OOE is the center of a coincident gold-silver-arsenic anomaly with gold up to 0.064 o/t. This anomaly may be located near the contact between Stuhini volcanics and Banker-type limestones.

4: The presence of large outcrops of white limestones to the southeast of the Sparling showing and a review of all available data makes the writer question the Permian age ascribed to the limestone seen at the Banker.

5: All of the above-described soil anomalies should be further investigated by extending the soil geochemical grid, carrying out a turam/pulse EM - magnetometer survey and by detail geological mapping prior to drilling. A detailed program and budget are described and proposed.

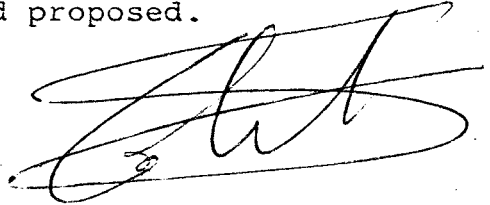
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1.0 INTRODUCTION

1.1 LOCATION

The Banker and Sparling showings are protected by 14 contiguous crown granted mineral claims and two MGS mineral claims, totalling 43 units. The claims are located on the Tulsequah River three miles north of its confluence with the Taku River. The Banker and Sparling showing lie on the east bank of the Tulsequah River, opposite the Polaris-Taku Mine. The Big Bull Mine is two miles to the southeast of the Banker showing.

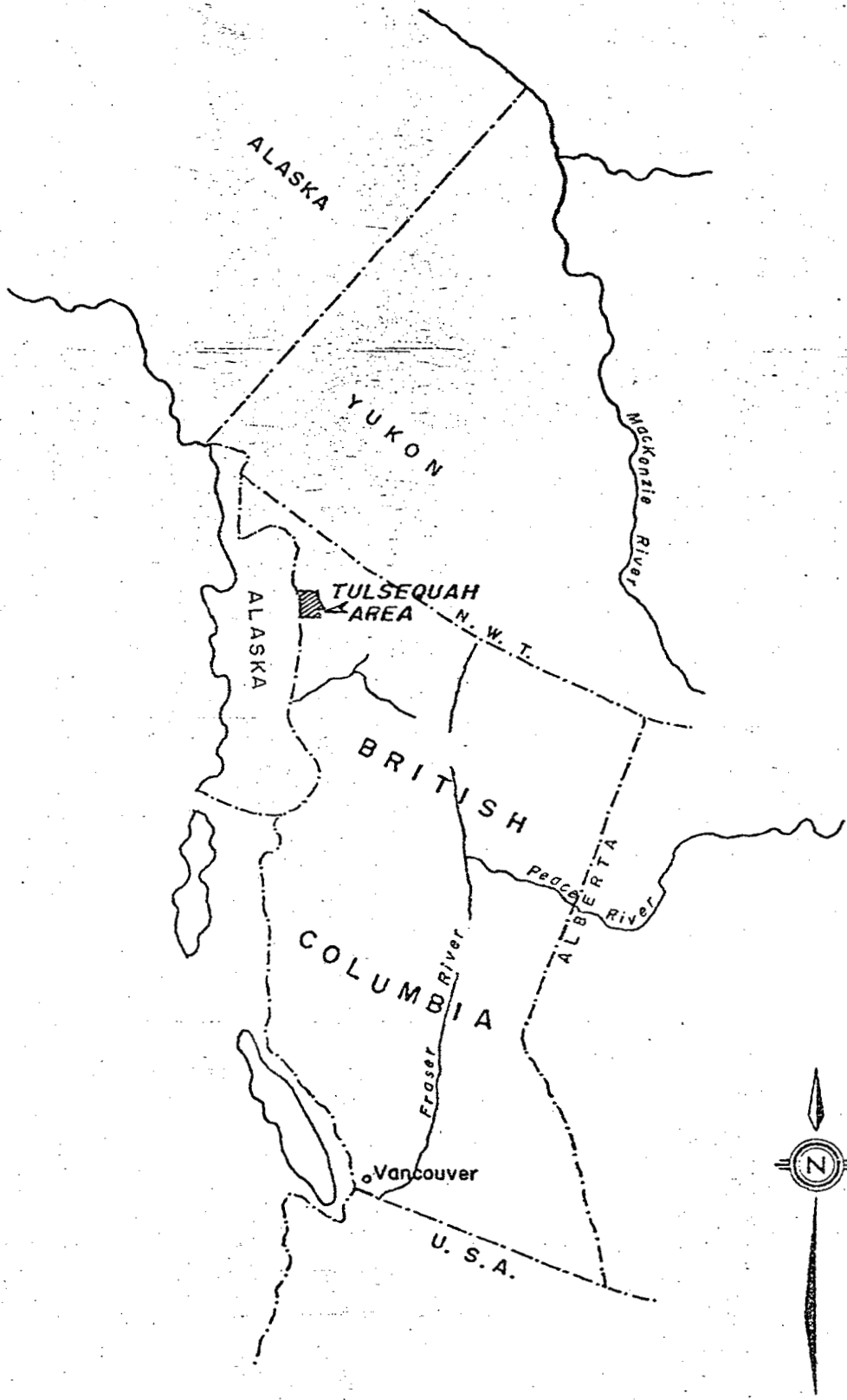
1.2 ACCESS

The portions of the claim group on the east side of the Tulsequah River is connected by an old tote road with the Big Bull Mine and Tulsequah Landing three miles to the south. Portions of this road have been eroded away by slumping along the banks of the Tulsequah River, the remainder is presently overgrown with thick spruce and alder. Animal trails have kept portions of this tote road open.

The area is readily accessible from tidewater by river boat during the summer months. Operating properties in the past (before 1965) have used river barges to transport supplies and concentrates, while personnel have entered the area by aircraft from Juneau (Alaska) and/or Atlin (B.C.). Aircraft can land on the Taku River, at its confluence with the Tulsequah River, on the still useable Polaris airstrip directly across the Tulsequah River from the property or at the Polaris town-site airstrip, if minor repairs to the latter are carried out with heavy machinery presently available there.

1.3 PHYSIOGRAPHY AND CLIMATE

The Tulsequah River cuts a drainage parallel to the Coast Range and is the first major such drainage from the Coast. It is, thus, typical to all Coastal environment in physiography and climate. F.A. Kerr reports annual precipitation between 1.91 and 3.81 meters, average snowfall as much as 2.90 meters and winter temperatures (December, January and February) of between -3°C and -5°C . The flats in the Tulsequah area do not begin to clear until about the end of April and most slopes up to timber line are free of snow around the end of June. Cominco reports having mapped the surface around the Sparling showing in June, and a previous owner conducted a geophysical survey in the property starting around the first week of May. Both Polaris-Taku and Tulsequah Chief mines were year-around operations with minor shut downs in June/July during the flood season.



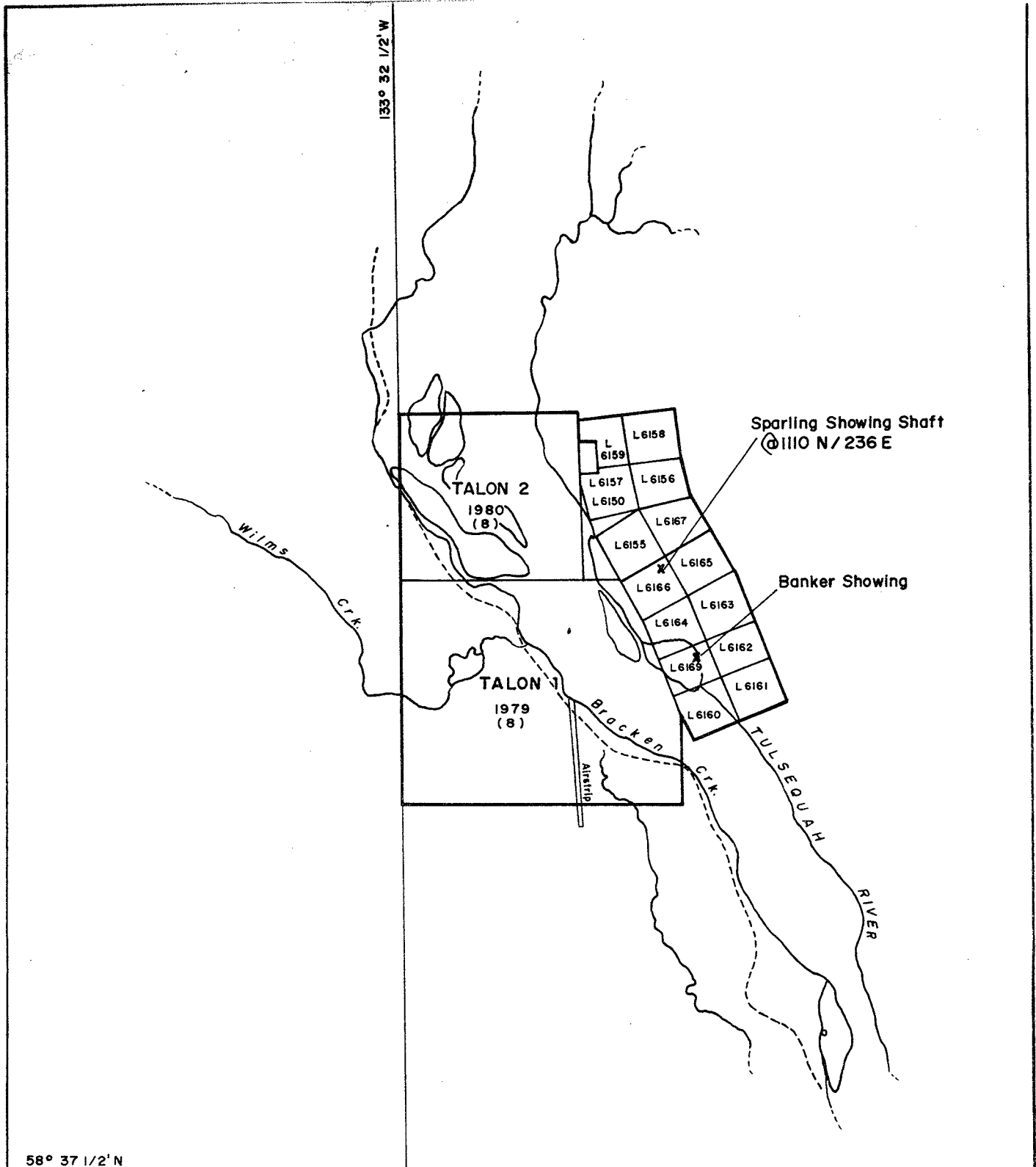
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LOCATION MAP

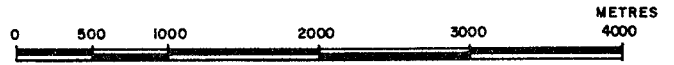
UPDATES	
Date	Revised
Sept. 30/53	GSS

NTS 104 K/12E
 Work by: G. Salazar S., P. Eng.
 Drawn by: *[Signature]*
 Map No. 1

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 312 Cedarbrae Cresc. SW
 Calgary Alberta



58° 37' 1/2" N



SCALE - 1:50,000

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CLAIM MAP

UPDATES	
Date	Revised

NTS 104 K/12E
 Work by: G. Salazar S., P. Eng.
 Drawn by: *[Signature]*
 Map No. **2**

G. SALAZAR S. & ASSOCS. LTD.
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 312 Cedarbrae Cresc. SW
 Calgary Alberta

1.4 CLAIM STATUS

Table No. 1 is a listing of all claims subject to this report. Pertinent assessment work data is required only to claims Tallon No.'s 1 and 2 because the others are all crown grants.

Table No. 1
BANKER GROUP OF CLAIMS
Assessment Information

Claim Name	Type (1)	Record (Lot)No.	Record Date (2)	Expiry Date (3)	No. Units
Vega No.1	C.G.	6155	NA	NA	1
Vega No.2	C.G.	6156	NA	NA	1
Vega No.3	C.G.	6157	NA	NA	1
Vega No.4	C.G.	6158	NA	NA	1
Vega No.5	C.G.	6159	NA	NA	1
Janet No.1	C.G.	6160	NA	NA	1
Janet No.2	C.G.	6161	NA	NA	1
Janet No.3	C.G.	6162	NA	NA	1
Janet No.4	C.G.	6163	NA	NA	1
Janet No.5	C.G.	6164	NA	NA	1
Janet No.6	C.G.	6165	NA	NA	1
Janet No.7	C.G.	6166	NA	NA	1
Janet No.8	C.G.	6167	NA	NA	1
Joker	C.G.	6169	NA	NA	1
Tallon No.1	MGS	1979	Aug.2/83	Aug.2/85	20
Tallon No.2	MGS	1980	Aug.2/83	Aug.2/85	9
TOTAL					43 units

Notes:

- (1): CG: Crown Granted Mineral Claim, subjected to Land Tax yearly.
MGS: Modified Grid System mineral claim, subjected to yearly assessment requirements.
- (2): NA: Not Applicable.
- (3): Date Shown, when applicable, is that which becomes effective when this report is presented - and accepted - to the B.C. Government for work assessment purposes.

1.5 HISTORY

The crown grants were staked in 1929 and optioned off to the Alaska Juneau Gold Mining Co., who dropped it after a year's prospecting had been done. During that period, a fifty-foot tunnel, a twenty foot shaft and several hand trenches were completed in the area of the Banker showing. J.D. Mason makes reference to a shallow 180-foot adit being completed

in the claims at this time, but is not specific as to area or showing. The writer feels that the collapsed adit found extending from Trench C at the Banker showing may be the one referred to initially. No evidence of a shallow, 180-foot adit was seen in the field. On the other hand, there is at least one twenty-foot shaft in the Sparling showing area and the depressions/shafts(?) at the north ends of Trenches D & F (Map No.3) could be more than twenty feet deep.

The property lay idle until the late 1940's or early 1950's, when it was taken over by the Polaris-Taku Mining Co., a Rembrandt Gold Mines Ltd. predecessor and from whom Silver Talon Mines Ltd. acquired the property. Cominco optioned the property in 1957 and drilled three flat holes through the north end of the Sparling showing for a total of 1472 feet of drilling.

In 1964, a syndicate made up of New Taku Mines Ltd., Home Oil Ltd., and the Homestake Mining Co. undertook further exploration of the Banker showing. The old trenches were blasted and deepened four or five feet and a number of short X-ray drillholes (5/8" core) were drilled near the original trenches. According to J.D. Mason, this work "... proved that the highgrade (found at surface) ... although erratic silver mineralization, continued to a depth of better than 30 feet."

In 1966, the New Taku Syndicate conducted an electromagnetic and self-potential survey over the Banker and Sparling areas and determined a number of strong anomalies. "One of the anomalies parallels the Banker showings 50 to 100 feet to the northeast" (J.D. Mason) of it, in deep overburden.

In 1962, the New Taku Syndicate attempted to further explore the anomalous areas in the Banker area by bulldozer stripping of trenches A & B (Map No.3). Very deep overburden was encountered and the machine was in poor repair.

The Sparling and Banker showings have attracted all of the attention within this claim group since their discovery. They are geologically different targets and will be treated separately in the following sections of this report.

1.6 WORK DONE IN 1983

1.0: A senior geologist, two line cutters/soil samplers and a boatman/mechanic spent from August 10 to 20, 1983, carrying out the following program.

1.1: Line cutting: A baseline at an azimuth of 334°; 1140m. long was cleared and flagged. Twenty-six

crosslines, totalling 4400m. of flagged and blazed lines. All lines were compass-surveyed with a Silva compass. The baseline and crosslines were also corrected for slope. Stations were flagged every 10.0m. Vegetation at the lower elevations is so lush that I expect this grid to be overgrown after the second growth cycle next summer.

- 1.6.2: Soil sampling: A total of 458 soil samples from the B horizon were sent to Loring Labs to be geochemically analyzed for silver, lead and zinc. This was later on followed by arsenic determinations on all samples and gold determinations on 184 of these samples. Only the samples anomalous in arsenic and/or silver were re-assayed for gold.

A number of soil samples returned values beyond the analytical techniques' reliability and were, therefore, assayed.

- 1.6.3: Trench sampling: The old Banker showing trenches were resampled in an effort to confirm the high silver assays reported by previous workers. A total of 67 channel-chip samples were collected and assayed for gold, silver, lead and zinc. The three samples with highest gold and/or silver assays were assayed for ten major elements and loss on Ignition, in preparation for possible direct shipping to a smelter.

The above information is summarized in two sets of maps; one covers all geochemical data and is subdivided into one map showing gold-arsenic-summary results and another showing lead-zinc-silver results; the other set covers the sampling carried out in the trenches in the Banker showing area.

1.7 REFERENCES

- 1.7.1: Cominco drillhole Logs (circa 1957)
- 1.7.2: Kerr, F.A. (1948): Taku River Map Area, B.C. GSC Memoir 284.
- 1.7.3: Mason, J.D. (1980): Report in the Banker silver Property. Tulsequah, B.C.
- 1.7.4: New Taku Mines Ltd.: Several Annual Reports.

- 1.7.5: Selmsler, C.B. (1966): Geophysical Report. Sparling and Banker Groups, Tulsequah, B.C. for New Taku Mines Ltd.
- 1.7.6: Smith, A. (1941): "Report on the Geology of the Polaris-Taku Mine. Tulsequah, B.C."
- 1.7.7: _____, _____ (1948): "Tulsequah Area", C.I.M. Jubilee Volume "Structural Geology of Canadian Ore Deposits", pp.112-121.
- 1.7.8: _____, _____ (1950): Report on Polaris Taku Mine. Geology and Exploration Development Program. Company report.
- 1.7.9: Souther, J.G. (1971): Geology and Mineral Deposits of Tulsequah Map-Area, B.C. G.S.C. Mem. 362.

2.0 REGIONAL GEOLOGY

The Tulsequah area is underlain by a thick sequence of pre-Permian and Permian limestone and schist which is unconformably overlain by the lower Triassic Stuhini volcanics. Detailed descriptions of the different formations and groups are found in Souther's, Kerr's and Smith's works.

It is worthy to note, though, that while Souther recognizes only pre-Stuhini limestone formations in the area, Kerr also recognizes the presence of post-Stuhini formation limestones, which he refers to as Honakta formation. Both agree in describing the limestone at the Banker as pre-Stuhini.

Appendix No. 4 has been extracted from A. Smith's 1941 report on the Geology of the Polaris-Taku Mine. In it, Smith recognizes the presence of as many as eight separate lime-bearing or limestone horizons of distinct characteristics. Two of these he labels T-6 and T-10, are tuffaceous limestones, and are presumed to be stratigraphically immediately above the magnesite-mariposite rich units referred to as TP-2 to TP-7 by Smith. The other six units appear to be purposely separated from the age-correlative table and are listed at the bottom of the List of Formations. Units LS-3, LS-4 and/or LS-5, if locally silicified, could correlate to the limestone at the Banker.

The purpose of the above discussion is to elucidate the following:

2.1 It has been assumed by all previous workers that the Banker showing is in Permian limestones, which is characteristically a thick, continuous sequence narrowed in places only by post depositional faulting and folding events. This may not be necessarily so, and

2.2 The presence of post- and/or syn-genetic to ore-formation limestone bands may be of economic interest if new ore genesis modelling is confirmed with further work.

Structurally, the Tulsequah Valley was described by Dr. Kerr as a synclitorium plunging gently to the south and lying on the east flank of the Coast Range Batholith. A. Smith (1950) associated the high-angle dips of formations within this Synclitorium to "... intricate second and third or isoclinal folds superimposed on the major syncline..." The principal properties in the Tulsequah Valley are associated with topographic lineaments that are correlated to faults and fault systems having considerable horizontal lengths. Two major systems are recognized. One trends north parallel to the Tulsequah Valley, the second trends northeast and parallels the Taku Valley. The Tulsequah Chief, Big Bull and Polaris Taku orebodies are all localized by "shears" associated with these regional faults or their intersections.

3.0 PROPERTY GEOLOGY AND MINERALIZATION

3.1 BANKER SHOWING

The Banker showing is underlain by silicified, thinly bedded, grey and white coloured limestone. The bedding trends at an azimuth of 300° to 330° and dips from 80°SW to 60°NE. It is considered by most previous workers to be of Permian age, although without providing definitive data. As discussed previously, the limestones at the trenches could be equivalent to any one of three units described by Smith (1941), if locally silicified, or to either of the two tuffaceous limestone bands also described by Smith as younger or coeval to the main episode of mineralization. Mariposite-sulphide bearing veinlets and dykes trending sub-parallel to bedding are observed at the eastern ends of Trenches D and F. It is uncertain whether they show crosscutting relationships to bedding or not. The lack of outcrop immediately to the east prevents us from studying the nature of its contact with the Stuhini formation volcanics which lies in this direction.

Kerr suggested that the mineralization at the Banker was confined to the crest of an anticline plunging gently to the southeast. If this is correct, the deposit has been

eroded to the northwest but should plunge beneath younger(?) volcanics to the southeast (J.D. Mason). The ore minerals are mainly galena and sphalerite, with minor tetrahedrite and chalcopyrite, all along veinlets and stringers subparallel to bedding. Abundant pyrite and lesser amounts of arsenopyrite show crosscutting relationships to the above mineralization and, locally, develop hairline veinlets stockwork of variable density within the trenches themselves.

J.D. Mason reports the presence of a 186-foot (56.69m) shallow adit that "partially expose(d) the mineralized area". A caved, shallow tunnel is plotted as extending from Trench C. The 9.0m mark is coincident with the first set of remaining timber observed. The length of the tunnel, as reported by Mason, is questioned because such a tunnel would have been found by Trench B.

J.D. Mason (1980) reported the following assay results obtained by the Taku Syndicate in 1964 and by the New Taku Company in 1971 in samples collected from these trenches.

Location	Width (ft)	Au(o/t)	Ag(o/t)	Pb(%)	Zn(%)	Cu(%)	Remarks
<u>Taku Syndicate (1964)</u>							
Trench #1	1.0	0.38	871.6	10.45	15.43	1.20	-
Trench #1	1.8	0.10	111.5	11.4	1.85	-	-
Trench #1	6.0	0.12	108.4	6.3	3.9	-	-
Trench #2	4.0	0.18	15.3	5.7	8.7	-	-
<u>New Taku Co. (1971)</u>							
Trench #1	4.0	0.16	276.0	6.5	15.2	0.5	-
Trench #1	2.5	0.16	372.0	6.6	8.0	2.2	-
Trench #1	1.5	0.06	87.0	7.2	5.5	0.4	Directly below sample above
Trench #2	3.5	0.06	25.6	1.16	0.0	-	-

Notes: Trench #1 is called Trench C in Map No. 3.
 Trench #2 is called Trench D in Map No. 3.
 Trench #3 is called Trench F in Map No. 3.

Map No. 3 shows the assay results of the channel-chip sampling program carried out last summer in the same trenches. This sampling was carried out by the author in moss-covered walls. Chip sampling was hampered by the smoothness of the sampled trench-walls, thus requiring more time than usual to properly sample them. Highest silver assay returned was 87.02 o/t across 0.25m. on the northwest wall of Trench C, in what is

hereby interpreted as the second stringer zone, as counted from the southwest, present in the trenches. Variable silver and gold grades are evident when compared to the on-trend sample from the southeast wall, which has only 16.20 o/t silver but twice the amount of gold (0.16 o/t to 0.084 o/t). The next highest silver assays come from the area from which the 800(+) o/t silver samples reported above were collected. Our samples show the following:

Sample No.	Width (m)	Ag (o/t)	Pb (%)	Zn (%)	Au (o/t)	Remarks
<u>Trench C - Northwest Wall</u>						
3712	0.20	30.13	0.30	1.50	0.888	
3713	0.35	73.55	4.03	2.12	0.0074	
3714	1.00	4.78	0.19	0.31	0.0022	
<u>Trench C - Southeast Wall</u>						
3723	1.00	27.68	1.63	1.21	0.024	
3724	0.37	23.08	1.49	2.10	0.030	(Vertical Chip)
3725	1.25	84.42	3.51	2.49	0.082	(Vertical Chip)
3726	1.00	20.98	1.28	0.98	0.042	

and represent the mineralization as observed in the trenches. Strong weathering of the trench walls since the last sampling program is not a satisfactory explanation for the major discrepancy shown between sampling programs although is the only plausible one that comes to mind. Earlier samplers had the advantage of sampling a freshly broken surface. In turn, our samples are probably more representative since moss prevented us from being attracted to the very impressive tetrahedite mineralization occurring along hairline stringers. Should it be desirable to resolve this discrepancy, we suggest that a fresh wall be cut from the trenches with a hand-held plugger, and the new surface be resampled. This work could be carried out in conjunction with work at the Sparling showing.

3.2 SPARLING SHOWING

The Sparling showing area is underlain by a package of Stuhini volcanic rocks similar to that found at the Tulsequah Chief and Big Bull orebodies. "Felsite dykes", sericite-mariposite-silica-carbonate and retrograde clay (indicative of regolithic surface?) mineral alteration assemblages and magnesian-rich hornblende porphyry "andesites"(?) of the Stuhini formation are the main rock types. Trenching over an area of 420m. x 200m. has exposed galena and sphalerite along north- and northwesterly- trending stringers and veins up to 0.3 - 0.4m. wide assaying

Sample No.	Width (m)	Ag (o/t)	Pb (%)	Zn (%)	Au (o/t)	Remarks
3777B	0.30	8.0	0.78	0.63	0.0064	Bottom of 20' shaft
3778B	0.40	2.88	1.79	0.97	0.016	Clean vein
3779B		6.14	1.15	2.01	0.040	Handsorted pile

all of which is within a knob of similar dimensions located to the west of a well-marked northwesterly striking draw which follows the surface trace of a regional fault parallel to the Tulsequah Valley. The three diamond drill holes drilled by Cominco in 1957 tested an area to the north of Sample 3779B and were aimed at the "widest zone of alteration" coincident with the draw referred to above. Mineralization along a shear found directly below the draw assayed as follows:

D.D.H. No.	From (feet)	To (feet)	Length (feet)	Au o/t	Ag o/t	Cu %	Pb %	Zn %
1	426.0	431.0	5.0	0.01	0.7	0.1	0.2	Tr
	459.0	462.5	3.5	0.01	0.9	0.1	Tr	Tr
	467.5	471.0	3.5	0.02	0.8	0.1	0.1	Tr
2	307.5	308.0	0.5	Tr	0.4	Tr	Tr	Nil
	428.5	434.0	5.5	Tr	0.2	Tr	Tr	Nil
	451.0	457.0	6.0	0.01	0.5	Tr	Tr	Nil
3	287.5	294.5	7.0	0.02	1.5	Tr	Tr	0.3

In addition to the above, D.D.H. No. 1 shows a total of 63.0 feet of "altered rock" and 88.0 feet of "felsite dyke" composited over the first 426.0 feet of unassayed drill core. D.D.H. No. 2, in turn, has 215.0 feet of "altered rock" and 9.5 feet of "felsite dyke" over a depth of 428.5 feet in which the only sample was a 0.5 foot of core at 307.5-308.0. D.D.H. No. 3 has 29.5 feet of "altered rock" and 166.5 feet of "felsite dyke" rock composited over the first 287.5 feet of unassayed core. D.D.H. No. 2 was drilled under sample 3779B and in the vicinity of samples 3777B and 3778B but did not seem to have recovered any mineralization worthy of assaying. Whether this is the result of poor core recovery or of the disappearance of mineralization with depth is not known. It is unfortunate that this core is not available for re-sampling since they tested the northern half of a large area of above threshold silver and arsenic soil geochemical values which is presently open to the east (ie. towards their target area) and that was found by our survey.

Map No. 8 is a reproduction of Cominco's Geology Map

slightly modified as to scale, grid and sample locations. From it, the following description of rock types and structural setting is gleaned.

Structurally, Cominco's drill target was localized at the intersection of a northwesterly striking shear and a northerly striking shear, as reflected by draws trending in both directions and draining southerly. This intersection also reflects strong sericite-quartz-mariposite alteration assemblages that become more widespread as one approaches the main draw and is ubiquitous throughout the area of previous trenching. The sheared and sericitic portions are generally more pyritic closer to the main draw. Mineralization at surface, where found, follows either shear system. "Andesite" (magnesian rich), the apparent host rock for mineralization on this zone, also shows local developments of coarse hornblende. Rhyolite outcrops to the east of the draw. It shows strong sericite alteration adjacent to the draw. Several "felsite" dykes are exposed on either side of the draw. Cominco reports the presence of several outcrops of white limestone in contact with the rhyolite.

4.0 SAMPLING PROGRAM AND DISCUSSION OF RESULTS

4.1 TRENCH SAMPLING AT THE BANKER SHOWING

Once the old trenches were relocated, a quick look assessment made us conclude the following:

4.1.1: Except for minor sloughing, trench walls gave us a good enough sampling surface, therefore not requiring a tractor or any other large equipment for the purpose of check assaying the walls.

4.1.2: Mineralization seen on the walls was somewhat erratic, thereby possibly presenting problems to a highgrading operation.

It was therefore, decided to channel-chip sample the trench walls while the soil sampling program was underway.

Map No. 3 shows the results of this channel-chip sampling program. The following is concluded from this map:

4.1.3: Highest silver assay returned was 87.02 o/t across 0.25m. on the northwest wall of Trench C in what is hereby interpreted as the second stringer zone, as counted from the southwest, present in the area. Variable silver and gold grades are evident when compared to the sample

from the southeast wall, which has only 16.20 o/t silver and twice the amount of gold (0.16 o/t to 0.084 o/t). The next highest silver assay comes from the area from which the 800(+) o/t silver samples were collected previously. Our sample results are shown on page 8, and represent the mineralization as observed in the trenches. The major discrepancy between the earlier sampling and the one reported above goes unexplained. Should it be desirable to resolve this discrepancy, we suggest that a fresh wall be cut from the trenches with a hand-held plugger, and the areas of greatest interest be re-sampled. This work could be carried out in conjunction with work at the Sparling showing.

Geochemically, in soils, this area shows as a Bull's Eye anomalous in all elements. Treshold arsenic contour (at 72.0 ppm) shows that this strongly silicified limestone formation may extend northwestwards near the western edge of the grid lines and appears to be buried by river sand and gravel-type overburden south of L760+OON with the exception of L310+OON and L340+OON. Transported overburden burial like that noted on Trenches A and B will mask any mineralization that may exist south of L280+OON, although strongly silicified limestones like that present at the Banker showing should be more resistant to erosion than not silicified limestone.

4.2 SPARLING SHOWING

This area has been referred to as the Potlatch, Banker-Potlatch, Janet-Vega, and Sparling. The writer prefers to refer to it as the Sparling showing in honour of its discoverer. Numerous hand-dug trenches and pits are seen in an area outlined by L103ON, L124ON, the baseline and the creek near the east end of these lines. In 1957, Cominco drilled three holes into the area of "best 'felsite' exposure" ... looking for another Tulsequah Chief (or Big Bull) type deposit in the area near the creek. No assay results are reported in the drill holes until they reached the main structure under the said creek, and these are not encouraging. These drill holes did not test the more important silver and gold geochemical anomalies found with this survey.

4.3 SOIL GEOCHEMICAL RESULTS

4.3.1: General

With the exception of the area of the Banker showing, there is a drastic difference in the geochemical response of soils to the north and south of L760+OON. The flat geochemical response seen to the south is primarily due to the presence

of variably thick sand and gravel deposits of possible fluvial origin, as observed on Trenches A and B, in the Banker showing area.

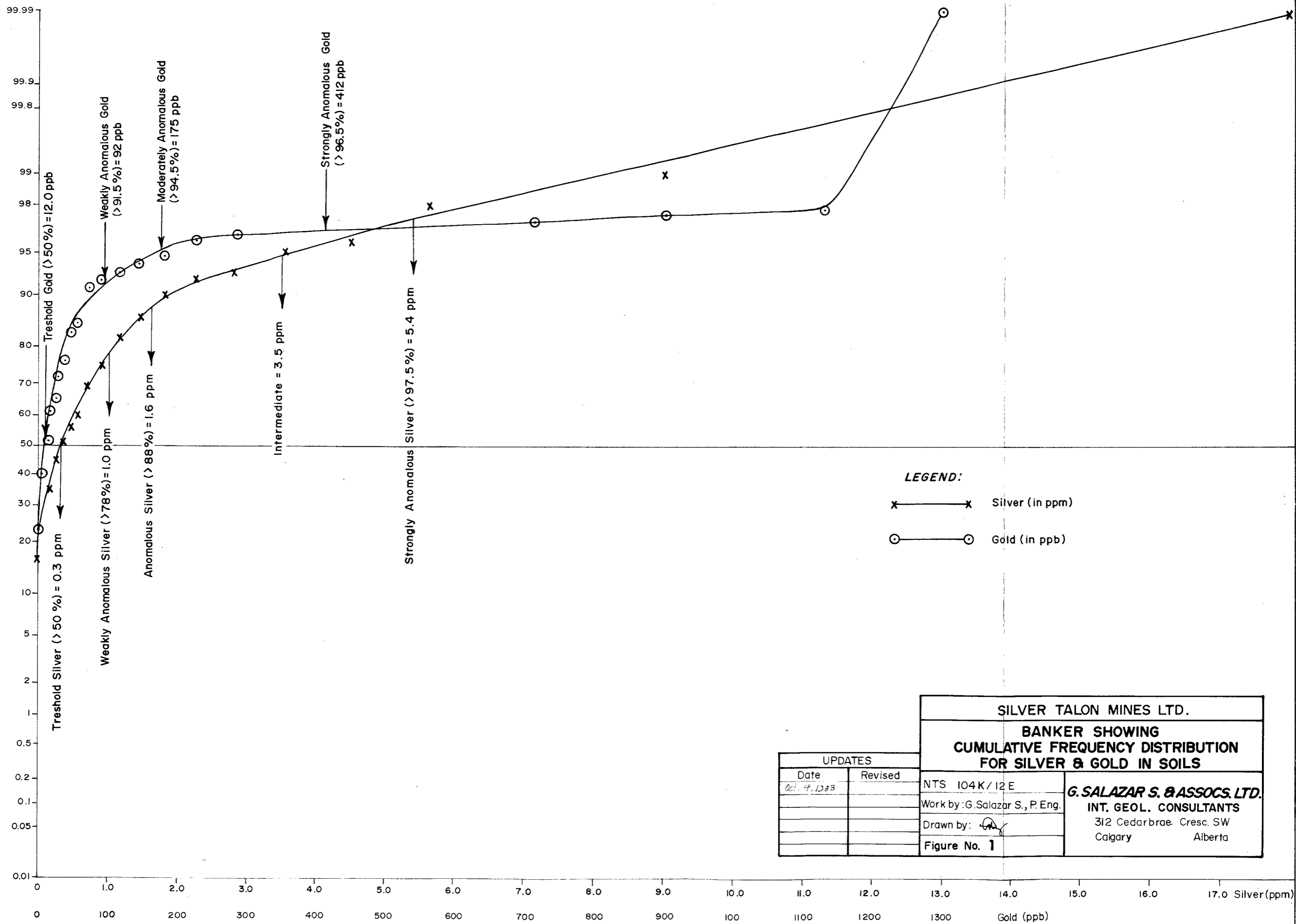
The area to the north of L760+00N is a topographic high, elongated parallel to the baseline, that is bound to the east by a topographic lineament following the creek near the grid's eastern boundary and the Tulsequah River. Cominco's 1957 drilling confirmed the presence of a major shear zone below the creek-draw, thereby confirming their regional structural picture. This structure's anastomosing nature, though, in conjunction with its width, was not stressed at the time. Lines 1120+00N, 1180+00N and 1240+00N to the west of the baseline, go downhill through a series of bench-forming draws and two to three meter-high walls, all of which seem to trend subparallel to the creek-draw to the east. Beyond the western edge of the grid, a second hillock similar in size and shape to the one investigated with the grid is present before reaching the swamps east of the Tulsequah River. We have no geochemical or geological information from this hillock.

4.3.2: Statistical Analyses

Standard cumulative population distribution statistical analyses were carried out on all soil samples collected last summer. Figure No.1 is a graphic representation of the said study for silver and gold, while Figure No.2 shows the respective information for lead, zinc and arsenic. Back-up data, such as the individual Population Distribution Study count sheets and the Assay Certificates are included as Appendix No.2. Table No. 2 (following) summarizes the pertinent statistical information and defines the contour levels used in Maps No. 4 through 7, inclusive, for each element. This Table is read as follows: "88% of the silver values computed is below 1.6 ppm". In most instances, two of the three levels referred to as "weakly anomalous", "moderately anomalous" and "strongly anomalous" are reflected as inflection points in the cumulative distribution curves of Figures No. 1 and 2 and are interpreted to define the areas where two distinct populations overlap. Threshold level is always defined at the fifty percentile level.

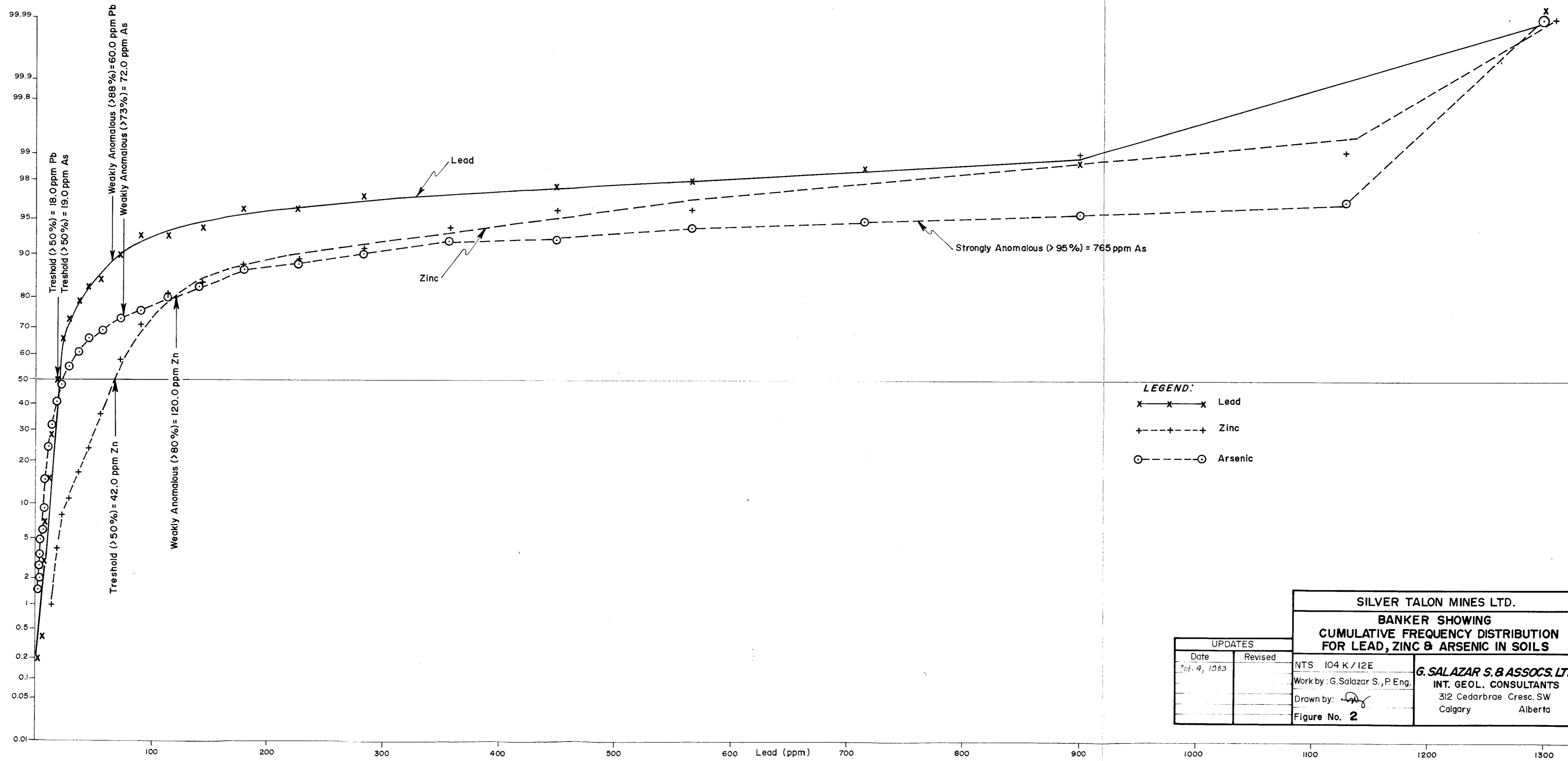
Table No. 2
GEOCHEMICAL POPULATION DISTRIBUTION SUMMARY
BANKER/SPARLING PROPERTY

Element	Unit Level	Threshold		Weakly Anomalous		Moderately Anomalous		Strongly Anomalous	
		Level	%	Level	%	Level	%	Level	%
Silver	ppm	0.3	50.0	1.0	78.0	1.6	88.0	5.4	97.5
Gold	ppb	12.0	50.0	92.0	91.5	172.0	95.2	412.0	95.7
Arsenic	ppm	19.0	50.0	72.0	73.0	418.5	92.5	765.0	95
Lead	ppm	18.0	50.0	60.0	88.0	102.0	93.0	144.0	94.5
Zinc	ppm	42.0	50.0	120.0	80.0	198.0	88.0	276.0	92.0



LEGEND:
 x — x Silver (in ppm)
 o — o Gold (in ppb)

SILVER TALON MINES LTD. BANKER SHOWING CUMULATIVE FREQUENCY DISTRIBUTION FOR SILVER & GOLD IN SOILS		G. SALAZAR S. & ASSOCS. LTD. INT. GEOL. CONSULTANTS 312 Cedarbrae Cresc. SW Calgary Alberta
UPDATES		
Date	Revised	
Oct. 4, 1983		
NTS 104K/12E Work by: G. Salazar S., P. Eng. Drawn by: <i>[Signature]</i> Figure No. 1		



Map No.'s 4 and 5 show the geochemical contours for silver and lead, respectively, on a base showing silver-lead-zinc analytical results. Map No.'s 6 and 7, in turn, show the geochemical contours for arsenic and gold, respectively, on a base showing the available arsenic and gold analytical results. All maps show the approximate locations of Cominco's drillholes as well as some of the trenches and shafts known to be present. Map No. 7 also presents pertinent arsenic and silver anomalous areas in a summary form.

4.3.3: Description of Anomalies

The following targets are prioritized in order of geochemical response:

1) A northerly trending gold anomaly with highs of 0.054 o/t and 0.034 o/t at L970+OON-220+OOE and L910+OON-180+OOE, respectively, has coincident silver and arsenic anomalies which extend northwesterly up to L1060+OON-210+OOE. This anomaly appears to reflect the junction of the above-mentioned northerly trend and the crosscutting northwesterly trend. This anomaly is of first priority for future work.

2) A large silver-arsenic anomaly occupies the eastern ends of lines 1060+OON to 1240+OON and is open to the east. Cominco's D.D.H.'s #1 and 2 tested its northern half but not the higher silver results, which appear on L1120+OON. The lack of information regarding core recovery and size in Cominco's drillholes allows us to discount that information and to proceed with extending the grid eastwards to find out its geochemical response prior to diamond drilling. A silver anomaly at the eastern end of L970+OON and a coincident gold-arsenic-silver anomaly that joins a trench at L820+OON-215+OOE with the eastern end of L880+OON may be extensions of the same anomaly as they may all relate to the creek-draw to the east of the grid. Previous workers have suggested that this topographic lineal/shear connects the Banker and the Tulsequah Chief mine and exerts a certain influence in ore control at the latter.

3) A coincident gold-silver-arsenic anomaly with up to 0.064 o/t Au of L910+OON-130+OOE may be located at or near the contact between Stuhini volcanics like those in the Sparling area and a possible extension of the Banker-type limestone to the west. The latter is inferred from the presence of an above threshold arsenic anomaly along the eastern edge of the grid south of L820+OON, which appears to turn northward north of L1000+OON, and that appears to trend towards the Banker showing.

4) Several single point gold, silver or multi-element anomalies are recognized in the grid's northern half and should be investigated.

5.0 RECOMMENDED PROGRAM

5.1 The Banker showing trenches should be re-blasted and re-sampled, to confirm the tenor of the highgrade sections reported above. This program should be carried out in stages and should start on Trench C (see Map No. 3).

5.2 The soil geochemical grid should be extended in the Sparling area to give a better overall coverage of the anomalous hillock and to include Cominco's target area. Table No. 3 describes in detail the grid lines to be extended.

Table No. 3
SPARLING SHOWING AREA
GRID EXTENSION

Line	From	To	Total	Done	To be Done
L1420N	0	350	350	0	350
1360N	OE	350	350m	0	350
1300N	0	350	350	0	350
1270N	0	350	350	0	350
1240N	0	350	350	170	180
1210N	0	350	350	0	350
1180N	0	350	350	190	160
1150N	0	350	350	50	300
1120N	0	350	350	150	200
1090N	0	350	350	50	300
1060N	0	350	350	190	160
1030N	0	350	350	50	300
1000N	0	350	350	190	160
970N	0	350	350	180	170
940N	0	350	350	170	180
910N	0	350	350	180	170
880N	0	350	350	160	190
850N	0	350	350	150	200
820N	0	350	350	150	200
790N	0	350	350	0	350
760N	0	350	350	110	240
730N	0	350	350	0	350
B.L.	1240	1420	180	0	180
				2140	5740.

5.3 Six hundred soil samples to be analyzed for gold, silver, arsenic, lead and zinc.

5.4 Geophysical surveys (Pulse-EM and magnetometer) should be carried out over the whole grid. It is preferable to have this survey finished while the swamps between Tulsequah River and the showings are still covered with snow (early March?) so that laying of wire is not hampered by open swamps.

5.5 Geological mapping of the whole property.

5.6 Drilling: The coincident gold-arsenic-silver anomaly connecting L970+OON-220+OOE and L910+OON-180+OOE and Cominco's silver are already drillable targets. Other targets may also result from the survey's described above. An initial budget for a total of 300m. of drilling (BQWL size) is allotted at this stage.

6.0 PROPOSED BUDGET

6.1 Grid Extension, includes soil sampling and geologist (10 days) and is evaluated at a field cost of \$2.71/meter (1983 cost) plus 0.153 \$/meter (for more difficult terrain)
 = 2.863 \$/meter x 5740 = \$ 16,244.20

6.2 Geochemical Analyses, 600 soil samples analyzed for Au, Ag, As, Pb and Zn @\$15.00 each 9,000.00

6.3 Pulse-EM and magnetometer survey over whole grid, 9000m. @\$1300/Km. (field costs) 11,700.00

6.4 Transportation from Atlin to Tulsequah approx. 4,000.00

6.4.1: Transportation from Calgary/Vancouver to Atlin approx. 5,000.00

6.5 Food Supplies

Linecutting: 10 days, 4 men = 40 mandays
 Geophysics: 7 days, 4 men = 28 mandays
 Cook: 20 days, 1 man = 20 mandays
 Chopper Pilot: 10 days, 1 man = 10 mandays
 98 mandays
 approx. 100 mandays

1983 Costs:

980.65 = 16.34 \$/manday x 100.00 1,634.00
 4 x 15

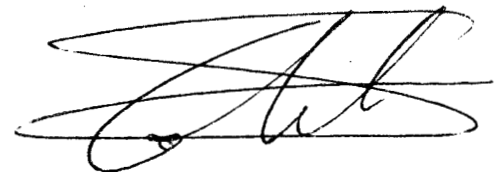
6.6 Salaries not included elsewhere:

Geologist: 10 days @\$300/day 3000.00
 Cook: 20 days @\$150/day 3000.00 6,000.00

6.7	<u>Helicopter Hughes 500C from Whitehorse</u>		
	20 hours @440.00	8,800.00	
	plus fuel 20 hours x 21 gals.		
	x 4.55 x 0.457 =	<u>873.33</u>	approx. 10,000.00
6.8	<u>Drilling - Follow up</u>		
	3-100m. holes, BQWL @\$150/m.,		
	all inclusive		<u>45,000.00</u>
			\$ 108,578.20
			<hr/>
		x 1.2 (for inflation)	\$ 130,293.84
		+ 10% miscellaneous	<u>13,029.38</u>
		GRAND TOTAL	<u>\$ 143,323.22</u>

Notes:

- (1): Helicopter charges may be eliminated if the tractor and crew cab at the mine site are put to use.
- (2): Drilling is definitely a follow-up stage.
- (3): Costs for crews have been taken proportionate to our program last year.



G. Salazar S., P. Eng.

APPENDIX No. 1

SILVER TALON MINES LTD.

STATEMENT OF EXPENDITURES

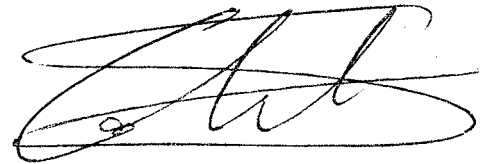
for

1983 PROGRAM AT BANKER SHOWING

1.0	<u>Personnel (Field)</u>		
1.1	G. Salazar S., July 29, August 6, 8-20, 21(1/2 day), 24(1/2 day) and 25. Total 17 days @\$300./day		\$ 5,100.00
1.2	Michael Fee, Senior Prospector, August 7-21, 15 days @\$180./day		2,700.00
1.3	Ralph Wilson, Junior Prospector, August 7-21, 15 days @\$120./day		1,800.00
1.4	Edy Feldman, boatman/mechanic & boat, August 10-20, 1983, 11 days @\$180./day		1,980.00
2.0	<u>Room & Board</u>		
2.1	Staging Costs	739.35	
2.2	Groceries	980.65	
2.3	Field gear & miscellaneous	<u>455.98</u>	2,175.98
3.0	<u>Airline Transportation</u>		
3.1	To Whitehorse & return	1,962.56	
3.2	To Tulsequah & return	<u>869.52</u>	2,832.08
4.0	<u>Fuel</u>		
4.1	Pine Tree Services	1,002.62	
4.2	Gasoline	<u>62.00</u>	1,064.62
5.0	<u>Truck Rental</u>		
	One day @50./		50.00
6.0	<u>Miscellaneous</u>		
6.1	Expediting (Northern Holdings Statement)	978.23	
6.2	Copying, postage, etc.	38.46	
6.3	Rain gear replacement	<u>185.54</u>	1,202.23

STATEMENT OF EXPENDITURES - cont'd.

7.0	<u>Assaying</u>		
7.1	Lab Costs	8,150.25	
7.2	Freight	<u>238.56</u>	\$ 8,388.81
8.0	<u>Report Writing</u>		
8.1	G. Salazar S., 10 days @\$300./day	3,000.00	
8.2	Drafting - E.E. Topacio	1,485.00	
8.3	Typing - J. Koenig	80.00	
8.4	Printing, West Canadian Graphics	<u>180.00</u>	<u>4,745.00</u>
			TOTAL: \$ <u>32,038.72</u>



STATEMENT OF QUALIFICATIONS

Nationality: Peruvian, with Canadian Citizenship

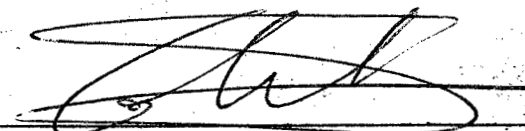
- Degrees:
- 1) B.Sc. and Engineering degree in Mining, Engineering and Mining Geology from the Universidad Nacional de Ingenieria de Lima, Peru (1967)
 - 2) M.Sc. in Economic Geology from Harvard University (1969)
 - 3) Member of the Associations of Professional Engineers of British Columbia and Alberta.
 - 4) Member of the Society of Economic Geologists, AIME, CIMM, etc.

Experience:

Peru: Engineer training programs while going to University. In the last two years at school, provided prospect and property evaluation services to medium-sized mining companies based in Lima.

U.S.A.: Grass roots exploration and property evaluation programs in New Mexico, Arizona, Montana and Washington. While in Montana, involvement in Anaconda's Stillwater Complex and Henderson properties, carrying out core logging, field mapping, ore reserve calculations and pre-feasibility studies. Maintained position of Stewart Mine geologist for one year.

Canada: Involved in mineral explorations and development programs searching for porphyry copper-molybdenum and volcanogenic massive sulphide and uranium deposits since 1970 across Canada. This included economic feasibility analysis of a porphyry copper-molybdenum deposit in Northern B.C. and in-depth geological studies of the economic potential of several Cu-Mo, Cu-Zn-Ag, Ag-Au prospects.



Guillermo Salazar S., P.Eng.

INTERVAL	PLOT PT.	NUMBER OF SAMPLES	PARTIAL		CUMULATIVE	
			N ^o	%	N ^o	%
<.1	0.5	4+2+4+1+4+1+5+6+13+11+10+7+3+1+2	74	16	74	16
1.0-1.9	1.5	9+7+5+5+3+2+6+14+7+8+9+4+1+1+4	86	19	160	35
2.0-2.9	2.5	6+8+7+7+7+7+7+4+4+1	45	10	205	45
3.0-3.9	3.5		26	6	231	51
4.0-4.9	4.5		21	5	252	56
5.0-5.9	5.5		20	4	272	60
6.0-7.9	7.0		43	9	315	69
8.0-9.9	9.0		26	6	341	75
10.0-12.9	11.5		31	7	372	82
13.0-15.9	14.5		20	4	392	86
16.0-19.9	18.0		16	4	408	90
20.0-24.9	22.5		9	2	417	92
25.0-30.9	28.0		7	2	424	93
31.0-39.9	35.5		8	2	432	95
40.0-49.9	45.0		6	1	438	96
50.0-62.9	56.5		8	2	446	98
63.0-79.9	71.5		-	-		
80.0-99.9	90.0		3	1	449	99
100.0-125.9	113.0					
126.0-159.9	142.5					
159.0-199.9	179.5					
200.0-251.9	226.0		2	0.5	451	99
252.0-315.9	284.0					
316.0-379.9	352.0					
400.0-500.9	450.5		1	0.2	452	99.5
501.0-630.9	566.0					
>630.9	650		2	0.5	454	100
631-77.9	71.5	1	1	0.2	453	99.8
>77.9	90.0	1	1	0.2	454	100.0

INTERVAL	PLOT PT.	NUMBER OF SAMPLES	PARTIAL		CUMULATIVE	
			N ^o	%	N ^o	%
< 1	0.5		5	23	5	23
1.0-1.9	1.5					
2.0-2.9	2.5					
3.0-3.9	3.5					
4.0-4.9	4.5					
5.0-5.9	5.5		41	17	96	40
6.0-7.9	7.0					
8.0-9.9	9.0					
10.0-12.9	12.5		28	11	125	51
13.0-15.9	14.5		24	10	149	61
16.0-19.9	18.0					
20.0-24.9	22.5		10	4	159	65
25.0-30.9	28.0		16	7	175	72
31.0-39.9	35.5		10	4	185	76
40.0-49.9	45.0		16	7	201	83
50.0-62.9	56.5		6	3	207	85
63.0-79.9	71.5		14	6	221	91
80.0-99.9	90.0		3	1	224	92
100.0-125.9	113.0		1	0.4	225	93
126.0-159.9	142.5		4	1.6	229	94
159.0-199.9	179.5		1	0.4	230	94.7
200.0-259.9	224.0		4	1.6	234	95.9
252.0-315.9	284.0		1	0.4	235	96.3
316.0-399.9	359.0					
400-500.9	450.5					
501.0-630.9	566.0					
630.3-799.9	680.75		2	0.8	237	97.1
800.0-999.9	900		1	0.4	238	97.5
1000-1259	1130		1	0.4	239	97.9
> 1259	1300		5	2.1	244	100

INTERVAL	PLOT PT.	NUMBER OF SAMPLES	PARTIAL		CUMULATIVE	
			N ^o	%	N ^o	%
< 1	0.5		-		-	
1.0-1.9	1.5		-		-	
2.0-2.9	2.5		-		-	
3.0-3.9	3.5		1	0.2	1	0.2
4.0-4.9	4.5		-		-	
5.0-5.9	5.5		1	0.2	2	0.4
6.0-7.9	7.0		12	3	14	3
8.0-9.9	9.0		17	4	31	7
10.0-12.9	11.5		38	8	69	15
13.0-15.9	14.5		57	12	126	28
16.0-19.9	18.0		103	22	229	50
20.0-24.9	22.5		72	16	301	66
25.0-30.9	28.0		35	8	336	73
31.0-39.9	35.5		25	5	361	79
40.0-49.9	45.0		17	4	378	83
50.0-62.9	56.5		18	4	396	86
63.0-79.9	71.5		14	3	410	90
80.0-99.9	90.0		14	3	424	93
100.0-125.9	113.0		3	0.7	427	93
126.0-158.9	142.5		4	1	431	94
159.0-199.9	179.5		7	2	438	96
200.0-259.9	226.0		1	0.2	439	96
262.0-315.9	284.0		5	1	444	97
316.0-399.9	358.0		-	-	-	-
400-500.9	450.5		3	0.7	447	97.7
501.0-630.9	566.0		1	0.2	448	98.0
> 630.9	650		10	2	458	100
630.9-799.0	715		3	0.7	451	98.5
800.0-999.0	900		1	0.2	452	98.7
1000.0-1259.0	1130		-	-	-	-
> 1259.0	1300		6	1.3	458	100.0

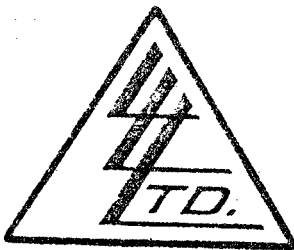
PROPERTY: DANKEK

CINCLUPPM

INTERVAL	PLOT PT.	NUMBER OF SAMPLES	PARTIAL		CUMULATIVE	
			N ^o	%	N ^o	%
< 1	0.5					
1.0-1.9	1.5					
2.0-2.9	2.5					
3.0-3.9	3.5					
4.0-4.9	4.5					
5.0-5.9	5.5					
6.0-7.9	7.0					
8.0-9.9	9.0					
10.0-12.9	12.5					
13.0-15.9	14.5		4	1	4	1
16.0-19.9	18.0		13	3	17	4
20.0-24.9	22.5		18	4	35	8
25.0-30.9	28.0		17	4	52	11
31.0-39.9	35.5		27	6	79	17
40.0-49.9	45.0		32	7	111	24
50.0-62.9	56.5		55	12	166	36
63.0-79.9	71.5		100	22	266	58
80.0-99.9	90.0		61	13	327	71
100.0-125.9	113.0		42	9	369	81
126.0-159.9	142.5		16	3	385	84
159.0-199.9	179.5		17	4	402	88
200.0-259.9	226.0		4	1	406	89
252.0-315.9	284.0		10	2	416	91
316.0-399.9	359.0		15	3	431	94
400.0-500.9	450.5		7	2	438	96
501.0-630.9	566.0		3	1	441	96
> 630.9	650		17	4	458	100
630.9-799.0	715		9	2	450	98
800.0-999.0	900		4	1	454	99
1000.0-1259.0	1130		1	0.2	455	99
> 1259	1300		3	0.8	458	100

INTERVAL	PLOT PT.	NUMBER OF SAMPLES	PARTIAL		CUMULATIVE	
			N°	%	N°	%
< 1	0.5		7	1.5	7	1.5
1.0-1.9	1.5		3	0.7	10	2.2
2.0-2.9	2.5		2	0.4	12	2.6
3.0-3.9	3.5		4	0.9	16	3.5
4.0-4.9	4.5		6	1.3	22	5
5.0-5.9	5.5		7	1.5	29	6
6.0-7.9	7.0		11	2	40	9
8.0-9.9	9.0		29	6	69	15
10.0-12.9	11.5		39	9	108	24
13.0-15.9	14.5		40	9	148	32
16.0-19.9	18.0		41	9	189	41
20.0-24.9	22.5		30	7	219	48
25.0-30.9	28.0		32	7	251	55
31.0-39.9	35.5		28	6	279	61
40.0-49.9	45.0		22	5	301	66
50.0-62.9	56.5		13	3	314	69
63.0-79.9	71.5		19	4	333	73
80.0-99.9	90.0		15	3	348	76
100.0-125.9	113.0		18	4	366	80
126.0-158.9	142.5		15	3	381	83
159.0-199.9	179.5		17	4	398	87
200.0-259.9	226.0		6	1	404	88
252.0-315.9	284.0		7	1.5	411	90
316.0-399.9	358.0		10	2	421	92
400.0-500.9	450.5		2	0.4	423	92.4
501.0-630.9	566.0		7	1.5	430	93.9
> 630.9	650		28	-	-	-
630.9-799.0	715		4	0.9	434	94.8
800.0-999.0	900.0		3	0.7	437	95.4
1000-1259.0	1130		6	1.3	443	96.7
> 1259.0	1300		15	3.3	458	100.0

To: G SALAZAR & ASSOCIATES
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacio



File No. 25207-1
 Date September 30, 1983
 Samples Soil

Certificate of
 ASSAY of
 LORING LABORATORIES LTD.

Page # 1a

SAMPLE No.	OZ./TON GOLD	% As
<u>"Assay Analyses"</u>		
L 310N-100E	0.168	6.33
L 310N-110E	0.268	15.35
L 310N-140E		.30
L 340N-100E		.11
L 820N-220E		.12
L 850N-240E		.13
L 880N-270E		.13
L 910N-130E	.064	.19
L 910N-140E		.13
L 910N-180E	.034	-
L 940N-200E		.69
L 970N-150E		.11
L 970N-210E		.34
L 970N-220E	.054	-
L1000N-210E		.22
L1030N-200E	.070	2.13
L1030N-240E		.26
L1060N-210E		.14
L1060N-290E		.23
L1180N-130E		.11

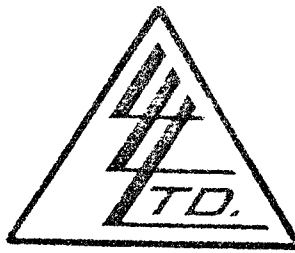
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

D. E. Jones

Assayer

To: G SALAZAR & ASSOCIATES
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacio




File No. 25207-1
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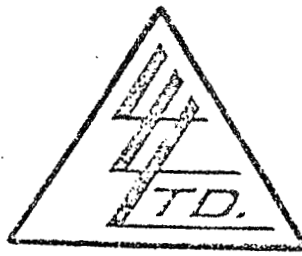
SAMPLE No.	OZ./TON GOLD	% As
<u>"Assay Analyses"</u>		
L1180N-140E		.11
L1180N-240E		.11
L1240N-180E		.14
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>		

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.



 Assayer

To: SALAZAR & ASSOCIATES
 312 Cedarbrae Crescent S.W.
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

Certificate of
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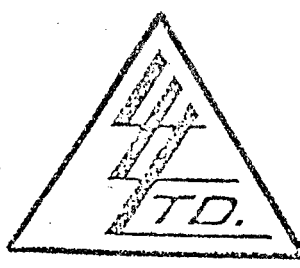
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L100N- 150E	7	14	29	.2	
- 160E	19	15	83	.1	
- 170E	3	11	104	.1	
- 180E	11	11	75	.2	
- 190E	6	13	38	Nil	
-BL200E	5	13	32	Nil	
- 210E	9	14	55	.1	
- 220E	10	11	36	.1	
- 230E	16	20	79	.2	
- 240E	13	23	78	Nil	
- 250E	16	19	74	.1	
- 260E	11	14	50	.1	
- 270E	8	11	34	.2	
- 280E	19	21	55	Nil	
- 290E	8	13	35	.1	
- 300E	10	18	28	.1	
- 310E	153	29	186	.2	150
- 320E	56	17	42	.1	Nil
L160N- 110E	13	14	68	.2	
- 120E	13	20	82	.3	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance

D. Enders (20)

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



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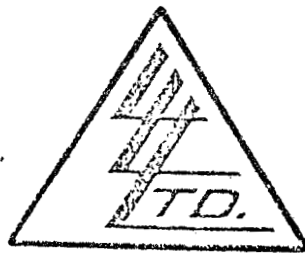
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L160N- 130E	7	12	58	.1	
- 140E	8	13	130	.1	
- 150E	11	16	74	.2	
- 160E	13	11	22	.2	
- 170E	13	18	68	.1	
- 180E	8	14	82	.1	
- 190E	12	13	58	.2	
-BL200E	5	14	27	.1	
- 210E	15	18	64	Nil	
- 220E	10	18	28	Nil	
- 230E	8	9	24	.2	
- 240E	17	17	74	.2	
- 250E	19	18	64	.1	
- 260E	5	9	22	.1	
- 270E	19	18	54	.2	
- 280E	15	19	63	.4	
- 290E	17	12	34	.3	
- 300E	20	24	86	.2	
- 310E	7	11	26	.3	
- 320E	36	14	64	.2	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

D. Salazar (w)

Rejects Retained one month.
 Pulp Retained one month
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 made in advance

To: **Ø SALAZAR & ASSOCIATES LTD**
 312 Cedarbrae Crescent S.W.
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



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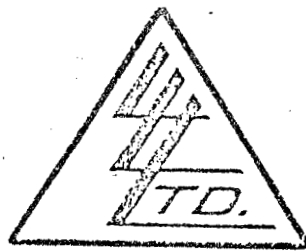
Page # 4

SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L220N- -100E	15	22	83	.4	
-110E	5	19	82	.2	
-120E	12	18	64	Nil	
-130E	9	17	68	Nil	
-140E	10	17	65	.1	
-150E	9	20	73	.1	
-160E	10	21	72	.4	
-170E	10	20	72	.2	
-180E	22	21	85	.2	
-190E	13	19	74	.1	
L220N-BL-200E	6	12	23	Nil	
-210E	14	19	96	.2	
-220E	6	21	68	Nil	
-230E	8	20	60	.1	
-240E	4	14	90	.3	
-250E	24	16	62	.1	
-260E	4	9	26	.4	
-270E	18	24	94	.5	
-280E	26	26	112	.8	25
-290E	20	23	90	.5	
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>					

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

[Signature] (20)

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



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 Date September 9, 1983
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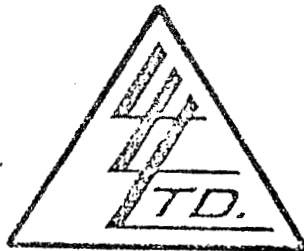
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil, Samples"</u>					
L220N- -300E	3	7	33	.1	
-310E	1	7	47	.1	
-320E	6	16	98	Nil	
L280N- -110E	15	23	96	.1	
-120E	19	28	98	.3	
-130E	43	26	105	.5	
-140E	14	21	78	.1	
-150E	5	21	69	.3	
-160E	15	24	102	.2	
-170E	14	22	75	.4	
-180E	13	22	83	.5	
-190E	18	20	74	.3	
L280N-BL-200E	19	17	68	.2	
-210E	12	18	61	.3	
-220E	15	16	75	.3	
-230E	16	21	74	.3	
-240E	16	13	80	.2	
-250E	8	17	53	.2	
-260E	14	17	64	.2	
-270E	12	17	74	.1	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

D. Erbes (20)

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



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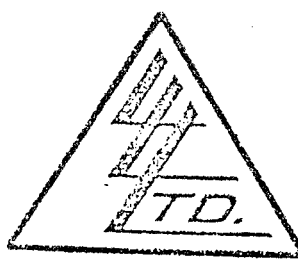
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L280N- -280E	12	11	35	Nil	
-290E	16	16	82	Nil	
-300E	13	22	79	.2	
-310E	17	18	72	Nil	
-320E	8	19	73	.2	
L310N- -100E	+1000	+1000	+1000	+30	45.14 +1000 0.168 % 45.36 +1000 0.268 %
-110E	+1000	+1000	+1000	+30	
-120E	858	62	240	6.2	75
-130E	100	20	113	.3	5
-140E	+1000	32	230	.4	Nil
-150E	45	20	74	.1	75
-160E	27	17	75	.3	
-170E	20	16	69	.2	
-180E	22	13	56	.2	
-190E	29	16	79	.2	
L310N-BL-200E	27	13	63	.2	
-210E	9	13	22	.1	
-220E	17	19	52	.2	
-230E	24	19	66	.1	
-240E	8	11	24	Nil	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

Edy Topacid (20)

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



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 Samples Soil

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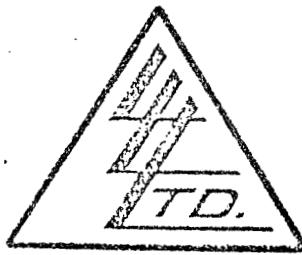
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L310N- -250E	9	17	79	.2	
-260E	14	19	50	.2	
-270E	11	11	33	.2	
-280E	17	18	72	Nil	
-290E	23	17	63	.2	
-300E	13	21	48	.2	
-310E	9	19	79	.2	
-320E	4	9	36	.1	
L340N- -100E	+1000	252	186	9.9	155
-110E	41	23	97	.2	
-120E	38	26	103	.6	Nil
-130E	33	25	90	.5	
-140E	24	23	88	.4	
-150E	22	30	112	.8	10
-160E	29	24	92	.6	15
-170E	26	18	46	.4	
-180E	13	21	74	.2	
-190E	35	21	84	.5	
L340N-BL-200E	34	16	74	.1	
-210E	35	16	63	.3	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

[Handwritten signature]

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 Rec: Edy Topacid



File No. 25207
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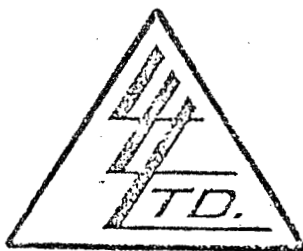
Page # 8

SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L340N- -220E	43	17	73	.2	
-230E	10	14	79	.1	
-240E	17	16	62	Nil	
-250E	19	17	55	Nil	
-260E	30	19	78	Nil	
-270E	18	17	36	.1	
-280E	10	14	35	.1	
-290E	18	19	33	.1	
-300E	8	11	43	.3	
-310E	11	9	22	.4	
-320E	8	6	29	.6	25
L370N- -100E	21	18	68	Nil	
-110E	18	21	64	.1	
-120E	15	17	63	Nil	
-130E	26	26	84	.2	
-140E	17	23	104	.1	
-150E	64	36	88	.6	40
-160E	40	18	76	.2	
-170E	23	17	66	.3	
-180E	22	18	81	.2	
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>					

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements

[Handwritten Signature] (20)

To: G SALAZAR & ASSOCIATES LTE
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

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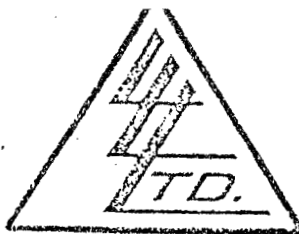
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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L370N- -190E	43	20	66	Nil	5
L370N-BL-200E	77	19	64	.1	
-210E	16	15	66	.1	
-220E	27	17	72	Nil	
-230E	20	16	64	Nil	
-240E	17	18	83	Nil	
-250E	17	16	59	.1	
-260E	12	12	79	Nil	
-270E	12	13	54	.1	
-280E	10	11	56	.1	
-290E	14	18	76	.1	
-300E	10	13	48	.1	
-310E	59	27	82	Nil	Nil
-320E	48	22	71	.1	
L400N- -100E	22	17	86	.1	
-110E	12	14	72	.1	
-120E	20	22	82	.1	
-130E	21	22	84	.1	
-140E	13	24	93	.1	
-150E	18	20	108	.1	
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>					

Rejects Retained one month.
 Pumps Retained one month
 unless specific arrangements
 made in advance.

A. Salazar (20)

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
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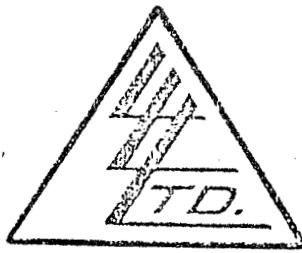
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					✓
L400N- -160E	28	20	74	Nil	
-170E	22	17	68	Nil	
-180E	36	18	74	Nil	
-190E	37	26	68	.1	
-400N-BL-200E	20	15	72	.1	
-210E	66	14	63	Nil	→ Nil
-220E	70	16	58	Nil	→ 5
-230E	37	16	82	.1	
-240E	13	12	42	.1	
-250E	25	20	66	.1	
-260E	18	22	45	Nil	
-270E	87	54	128	Nil	10
-280E	72	42	113	Nil	5
-290E	112	78	146	Nil	15
-300E	93	63	165	.1	5
-310E	267	65	164	.1	Nil
-320E	98	67	159	Nil	10
L460N- -100E	43	27	132	Nil	5
-110E	48	24	120	Nil	5
-120E	126	38	270	Nil	Nil

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

D. Enos (20)

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
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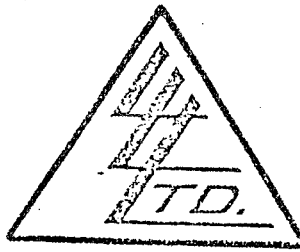
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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L460N- -130E	12	17	88	Nil	✓
-140E	11	16	54	Nil	
-150E	16	18	82	.1	
-160E	18	18	72	Nil	
-170E	12	14	65	Nil	
-180E	28	15	115	Nil	
-190E	22	17	93	.1	
L460N-BL-200E	12	17	69	.1	
-210E	31	12	60	Nil	
-220E	9	14	59	.1	
-230E	8	13	60	.1	
-240E	57	29	97	.1	15
-250E	8	13	47	Nil	
-260E	12	17	57	Nil	
-270E	20	13	52	Nil	
-280E	5	11	16	.1	
-290E	106	22	141	.1	5
-300E	16	14	48	.3	
-310E	33	16	50	Nil	
-320E	14	9	26	Nil	
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>					

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance

G. Salazar (20)

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L580N- -100E	197	60	350	Nil	110 ✓
-110E	170	52	340	Nil	60
-120E	194	59	410	.1	80
-130E	165	52	340	Nil	45
-140E	189	58	320	Nil	35
-150E	11	11	58	Nil	
-160E	13	14	58	Nil	
-170E	9	14	65	Nil	
-180E	15	15	90	.1	
-190E	8	13	78	.1	
L580N-BL-200E	8	14	64	.1	
-210E	170	50	186	.9	65
-220E	21	13	60	Nil	
-230E	46	20	56	Nil	
-240E	32	16	48	.1	
-250E	35	18	53	.1	
-260E	15	14	48	.1	
-270E	27	15	59	Nil	
-280E	27	17	60	.1	
-290E	13	17	58	.1	

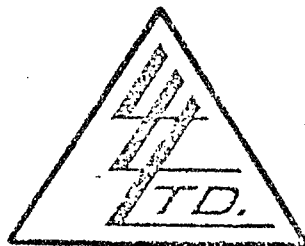
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(26)

D. Enders (20)

Refracts Retained one month.
 Pulp Retained one month
 unless specific arrangements

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

Certificate of
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 LORING LABORATORIES LTD.

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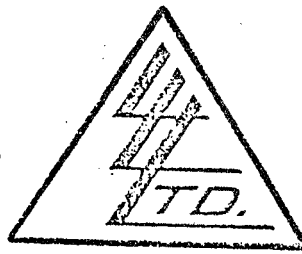
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
"Soil Samples"					✓
L580N- -300E	18	17	44	.1	
-310E	16	19	45	.1	
-320E	17	18	42	.1	
L690N- -120E	132	64	270	.2	25
-130E	222	78	520	1.1	225
-140E	25	23	108	Nil	5
-150E	28	22	99	Nil	Nil
-160E	205	72	400	1.2	720
-170E	324	76	350	.3	15
-180E	76	27	85	Nil	35
-190E	28	21	61	Nil	10
-210E	35	21	68	Nil	
-230E	26	29	68	.1	
-240E	13	15	62	Nil	
-250E	13	11	38	.3	
-260E	20	15	53	.2	
L760N- -120E	31	29	102	.2	
-130E	100	36	110	.2	
-140E	59	34	125	.3	15
-190E	9	19	44	Nil	20

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month

[Handwritten signature]

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

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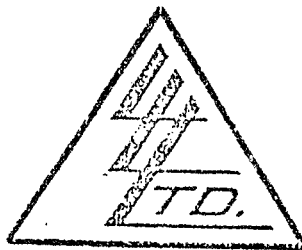
Page #14

SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
1760N- -200E	26	19	88	.1	
-210E	10	15	52	.4	
-220E	8	11	34	Nil	
-230E	4	15	28	Nil	
.20N- -120E	370	96	260	1.0	135
-130E	108	32	120	.5	35
-140E	135	47	86	.3	20
-150E	66	23	91	Nil	5
-160E	48	22	111	.2	20
-170E	35	23	54	.3	15
-180E	54	24	64	.5	10
-190E	12	16	32	.6	Nil
-200E	46	23	68	.7	30
-210E	511	460	185	3.2	70
-220E	+1000	83	86	1.3	25
-230E	94	30	129	1.9	Nil
-240E	27	18	38	.9	Nil
-250E	30	17	48	1.0	Nil
-260E	37	12	48	.5	5
-270E	22	22	52	1.0	5

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
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 Samples Soil

Certificate of
ASSAY
 LORING LABORATORIES LTD.

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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L850N- -120E	173	68	86	.4	10
-130E	154	45	86	.3	20
-140E	286	98	168	.6	70
-150E	46	27	90	.2	10
-160E	49	30	50	.4	35
-170E	38	34	118	.7	Nil
-180E	28	20	48	.4	5
-190E	55	25	48	.5	5
-200E	63	23	38	.3	Nil
-210E	23	18	35	.4	Nil
-220E	68	19	38	.4	10
-230E	81	24	48	.6	15
-240E	+1000	51	74	1.3	75
-250E	547	172	64	118	145
-260E	24	13	24	.6	5
-270E	15	9	20	1.7	Nil
L880N- -120E	539	41	700	.8	5
-130E	94	35	122	.6	40
-140E	57	27	112	.8	40
-150E	31	15	66	.6	15

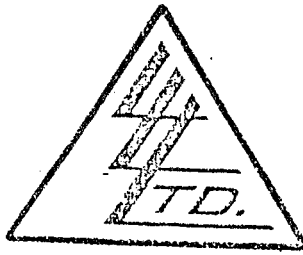
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(Signature)

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements

D. Salazar (Signature)

To: G. SALAZAR & ASSOCIATES LTD.
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

Certificate of
ASSAY OF
LORING LABORATORIES LTD.

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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L880N- -160E	65	28	72	.7	5 ✓
-170E	14	12	45	.3	Nil
-180E	40	29	34	.4	Nil
-190E	12	10	26	.4	Nil
-200E	84	35	48	1.0	45
-210E	31	25	65	.6	Nil
-220E	96	27	50	1.2	Nil
-230E	147	53	117	1.3	20
-240E	91	29	54	.9	40
-250E	348	32	72	1.4	75
-260E	66	19	48	1.0	35
-270E	+1000	284	290	4.8	185
L910N- -100E	27	16	50	.9	45
-110E	155	16	124	.7	45
-120E	83	11	78	.6	50
-130E	+1000	+1000	280	2.6	+1000 0.064 %/t
-140E	+1000	+1000	240	3.0	710
-150E	110	62	79	.8	25
-160E	90	32	60	.6	5
-170E	82	32	54	.6	10

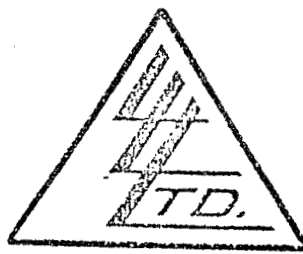
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(102)
 (20)

Refracts Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance

D. J. [Signature]

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

**Certificate of
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 LORING LABORATORIES LTD.**

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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L910N- -180E	188	23	136	1.1	+1000
-190E	46	19	61	1.0	5
L910N-BL-200E	193	68	122	1.2	15
-210E	113	40	78	1.1	10
-220E	72	73	83	.7	65
-230E	860	58	340	9.4	35
-240E	365	48	174	3.1	20
-270E	70	176	86	1.6	15
-280E	86	198	92	1.5	5
L940N- -100E	129	24	112	.6	40
-110E	576	27	450	.9	40
-120E	767	137	750	1.5	25
-130E	736	+1000	850	3.2	70
-140E	374	63	330	.9	55
-150E	47	17	50	.6	25
-160E	435	98	280	2.3	30
-170E	600	197	320	2.0	10
-180E	253	161	198	1.0	Nil
-190E	179	94	112	2.4	15
-200E	+1000	740	400	5.1	875

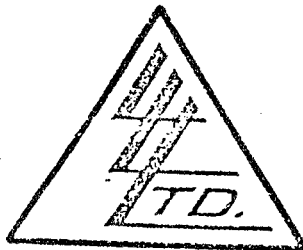
I **Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(22)

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

[Handwritten signature]

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

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 ASSAY OF
 LORING LABORATORIES LTD.

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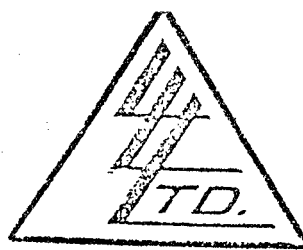
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L940N- -210E	117	47	100	2.0	5
-220E	205	97	121	1.3	Nil
-230E	107	470	570	2.9	290
-240E	14	34	24	9.9	Nil
-250E	25	12	28	.7	Nil
-260E	116	42	78	3.1	45
-270E	66	53	56	4.5	Nil
L970N- -100E	260	24	90	1.4	230
-110E	103	12	410	.8	10
-120E	137	30	103	.8	5
-130E	30	8	30	.6	10
-140E	58	46	99	1.1	5
-150E	+1000	831	+1000	4.1	55
-160E	205	31	188	1.9	Nil
-170E	289	33	149	2.0	5
-180E	395	24	77	1.1	5
-190E	182	148	780	5.1	25
L970N-BL-200E	6	11	18	1.3	45
-210E	+1000	736	330	3.3	235
-220E	193	574	198	5.6	+1000 0.057

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(141)
 (20)
 D. Enders

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

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 LORING LABORATORIES LTD.

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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L970N- -230E	34	42	52	1.0	35
-240E	28	47	47	.6	15
-250E	166	99	86	2.4	80
-260E	13	16	22	.8	75
-270E	23	27	44	1.1	20
-280E	38	25	38	20.9	-
L1000N- -100E	104	15	42	1.0	25
-110E	145	16	62	1.1	20
-120E	19	6	15	.7	85
-130E	25	9	18	.7	10
-140E	150	21	29	.9	35
-150E	40	20	25	2.9	210
-160E	3	20	22	1.8	Nil
-170E	14	20	65	1.3	Nil
-180E	Nil	11	18	.9	Nil
-190E	Nil	32	33	.7	Nil
L1000N-BL-200E	11	19	24	.7	15
-210E	+1000	128	194	2.9	60
-220E	35	14	18	.7	Nil
-230E	71	20	24	1.0	Nil

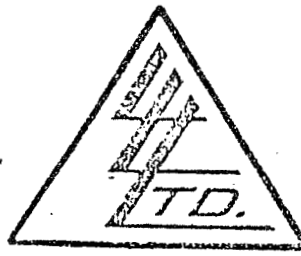
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(161)
 (70)

D. Proles

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

To: G SALAZAR & ASSOCIATES LTD.
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

Certificate of
 ASSAY OF
 LORING LABORATORIES LTD.

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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L1000N- -240E	206	780	134	4.5	15
-250E	165	85	69	1.8	10
-260E	140	81	64	2.0	Nil
-270E	26	37	88	2.4	5
-280E	Nil	6	17	.8	Nil
-290E	1	7	14	.8	Nil
L1030N- -200E	+1000	+1000	+1000	+30.0 ⁶⁸³⁴	-
-210E	139	108	124	.9	15
-220E	109	30	64	1.4	Nil
-230E	351	64	124	1.5	10
-240E	+1000	90	150	24.0	-
-250E	70	48	133	1.3	25
L1060N- -100E	Nil	11	27	.4	
-110E	Nil	12	30	.5	
-120E	1	16	31	.8	Nil
-130E	603	231	370	5.4	70
-140E	408	194	300	3.6	35
-150E	37	92	450	1.7	5
-160E	34	82	160	1.8	10

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

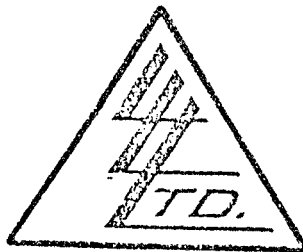
(176)

(19)

[Signature]

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
 Date September 9, 1983
 Samples Soil

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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L1060N- -170E	10	15	20	.7	10
-180E	2	8	19	1.1	Nil
-190E	2	18	33	.7	15
L1060N-BL-200E	24	31	84	1.0	5
-210E	+1000	285	670	2.3	45
-220E	Nil	11	24	3.0	10
-230E	4	7	18	.5	
-240E	3	8	15	.5	
-250E	7	14	22	.8	15
-260E	Nil	11	18	.7	10
-270E	135	18	40	.7	10
-280E	77	16	34	.6	15
-290E	+1000	304	240	1.7	65
L1090N- -200E	278	7	108	.5	
-210E	25	62	103	.8	10
-220E	45	26	65	.9	25
-230E	17	13	86	1.0	Nil
-240E	27	36	66	1.9	5
-250E	605	143	310	3.2	75

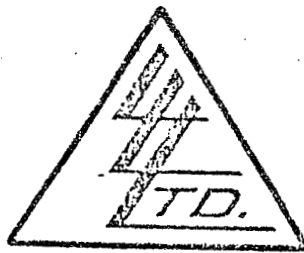
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(192)
 (19)

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements

h e h e

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25207
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 Samples Soil

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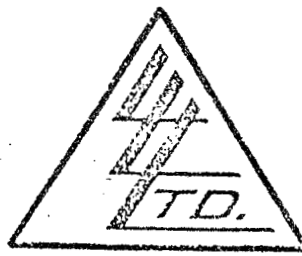
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L1120N- -100E	13	25	52	.6	Nil
-110E	109	37	80	.6	5
-120E	95	37	88	.6	10
-130E	102	43	95	.6	20
-140E	46	13	84	.5	Nil
-150E	115	48	320	1.4	65
-160E	125	48	310	1.1	25
-170E	10	9	158	.8	10
-180E	8	8	182	.7	5
-190E	8	13	106	1.0	15
L1120N-BL-200E	15	30	59	1.3	Nil
-210E	10	37	152	1.4	5
-220E	13	37	142	1.7	40
-230E	7	11	72	.7	5
-240E	184	124	198	5.2	55
-250E	319	411	430	6.1	35
L1150N- -200E	45	26	118	4.6	10
-210E	29	16	94	1.4	Nil
-220E	169	32	330	.9	Nil
-230E	79	43	124	1.3	Nil

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

(Signature)
 (Signature)

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc Edy Toapcid



File No. 25207
 Date September 9, 1983
 Samples Soil

Certificate of
 ASSAY OF
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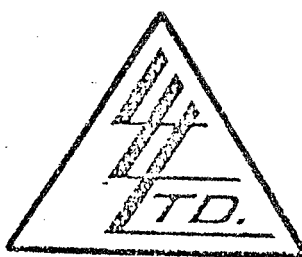
SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L1150N- -240E	8	19	82	1.0	Nil
-250E	58	21	330	2.9	15
L1180N- -100E	779	53	750	1.2	15
-110E	827	68	860	1.0	25
-120E	747	54	650	.7	10
-130E	+1000	59	930	.7	15
-140E	+1000	62	800	1.5	25
-150E	357	19	310	.4	Nil
-160E	339	103	660	1.3	10
-170E	307	98	620	1.1	5
-180E	45	22	142	.9	5
-190E	47	22	147	.5	Nil
L1180N-BL-200E	38	21	26	Nil	Nil
-210E	52	10	130	1.8	5
-220E	24	8	66	.4	Nil
-230E	10	7	72	.1	
-240E	+1000	285	640	1.3	20
-250E	63	86	700	5.3	15
-260E	52	33	350	4.2	5
-270E	4	6	16	.1	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance

(Handwritten signature)
 270
 20

To: G. SALAZAR & ASSOCIATES LTD.
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc; Edy Topacid



File No. -25207
 Date September 9, 1983
 Samples Soil

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 LORING LABORATORIES LTD.

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SAMPLE No.	PPM As	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Soil Samples"</u>					
L1180N- -280E	140	12	164	1.9	40
-290E	100	9	58	1.8	5
L1240N- -100E	12	8	44	Nil	
-110E	13	8	41	.1	
-120E	9	6	18	.1	
-130E	14	6	24	Nil	5
-140E	55	17	115	.3	10
-150E	85	20	42	.5	Nil
-160E	25	12	16	.5	5
-170E	16	10	66	.1	Nil
-180E	+1000	182	320	3.1	40
-190E	214	28	125	1.0	5
L1240N-BL-200E	168	40	102	.7	5
-210E	20	16	58	.5	
-220E	16	18	38	.5	
-230E	11	13	42	.4	Nil
-240E	38	15	124	1.1	Nil
-250E	50	14	122	1.6	Nil
-260E	6	5	17	.3	
-270E	5	3	14	.1	

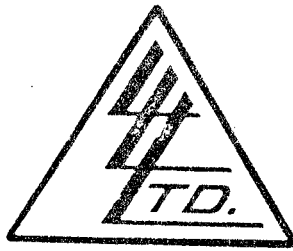
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

243
 20

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance

[Handwritten signature]

To: C. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4



File No. 25210-1
 Date September 9, 1983
 Samples Rock


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SAMPLE No.	#3705	#3725	#3737
<u>Whole Rock</u>			
<u>Analysis</u>			
%			
Na ₂ O	.03	.26	.02
K ₂ O	.02	.02	.10
CaO	4.98	41.23	3.78
MgO	1.82	.94	1.91
Fe ₂ O ₃	8.58	3.07	14.59
Al ₂ O ₃	.15	.19	.43
SO ₃	4.12	3.65	2.27
TiO ₂	.02	.01	.05
SiO ₂	55.96	9.90	58.14
P ₂ O ₅	.17	.09	.22
Loss on Ignition	10.54	22.63	14.27

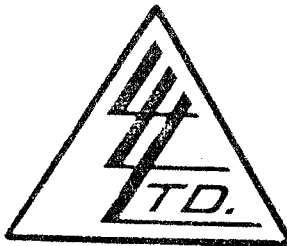
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Refractories Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.



 Assayer

To: G. SALAZAR & ASSOCIATES LTD
312 Cedarbrae Crescent S.W.,
Calgary, Alberta T2W 1Y4



File No. 25210-1
Date September 9, 1983
Samples Rock


Certificate of
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Page #2

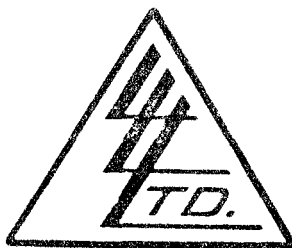
SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
<u>"Recheck Analysis"</u>		
# 3712	.907	30.43
# 3737	.142	.20

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.


Assayer

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25210

Date September 9, 1983

Samples Rock Chips

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Page # 1

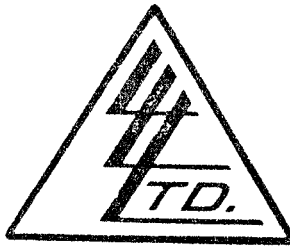
SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
<u>"Rock Chips"</u>				
# 3701	.052	4.17	.24	.48
02	.004	1.52	.38	.24
03	.002	.28	.03	.11
04	Trace	.58	.04	.16
3705	.084	87.02	2.72	5.00
06	.046	22.82	1.79	.10
07	.142	10.74	3.06	.15
08	.036	9.48	2.14	1.20
09	.022	1.44	.20	.09
3710	.092	8.55	2.05	.84
11	.038	1.90	.11	.14
12	.888	30.13	.30	1.50
13	.074	73.55	4.03	2.12
14	.022	4.78	.19	.31
3715	.004	.64	.06	.05
16	.018	1.32	.05	.13
17	.004	.10	.02	.01
18	.066	1.01	.12	.14
19	.002	.08	.02	.01
3720	.016	16.20	1.35	2.02

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 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulp Retained one month
 unless specific arrangements
 made in advance.

.....
 Assayer

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25210
 Date September 9, 1983
 Samples Rock Chip

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LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	OZ./TON	OZ./TON	%	%
	GOLD	SILVER	Pb	Zn
<u>"Rock Chips"</u>				
# 3721	.008	5.84	.72	.73
22	.018	.40	.07	.02
23	.024	27.68	1.63	1.21
24	.036	23.08	1.49	2.10
3725	.082	84.42	3.51	2.49
26	.042	20.98	1.28	.98
27	.040	.48	.03	.02
28	.024	.14	.02	.01
29	.016	.04	.02	.01
3730	.004	.02	.02	.01
31	.064	1.44	.35	1.01
32	.066	9.01	1.31	2.10
33	.082	11.34	2.16	1.03
34	.020	1.88	.29	.52
3735	.072	1.27	.24	.26
36	.068	1.58	.09	.14
37	.150	.17	.03	.02
38	.080	.04	.02	.01
39	.068	.69	.19	.03
3740	.050	.39	.23	.03

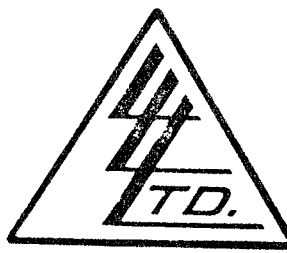
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

D. Enders

Assayer

To: G. SALAZAR & ASSOCIATES LTD
312 Cedarbrae Crescent S.W.,
Calgary, Alberta T2W 1Y4
cc: Edy Topacio



File No. 25210
 Date September 9, 1983
 Samples Rock Chip

Certificate of
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Page # 3

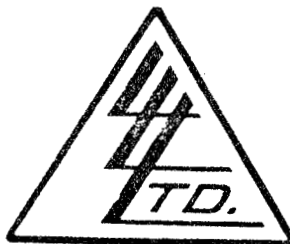
SAMPLE No.	OZ./TON	OZ./TON	%	%
	GOLD	SILVER	Pb	Zn
<u>"Rock Chips"</u>				
# 3741	.110	.39	.03	.02
42	.030	.04	.03	.01
43	.056	.38	.03	.10
44	.086	5.75	.17	.53
3745	.090	23.55	.52	.22
46	.098	5.20	.87	.07
47	.002	.18	.02	.01
48	.004	.12	.02	.01
49	.004	.12	.03	.01
3750	Trace	.02	.02	.01
51	.006	.16	.03	.02
52	.002	.02	.02	.01
53	.150	11.02	3.30	12.60
54	.012	1.14	.48	.92
3755	.004	.72	.22	1.14
56	.002	.24	.04	.02
57	.008	.64	.06	.02
58	.004	.46	.02	.02
59	.002	.20	.01	.01
3760	.004	.14	.01	Trace

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 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

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 Pulp Retained one month
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[Signature]
 Assayer

To: G SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25210
 Date September 9, 1983
 Samples Rock Chip

Certificate of
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 LORING LABORATORIES LTD.

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SAMPLE No.	OZ./TON	OZ./TON	%	%
	GOLD	SILVER	Pb	Zn
<u>"Rock Chips"</u>				
# 3761	Trace	.08	.02	.01
62	Trace	.04	.01	Trace
63	.006	.02	.01	Trace
3776 ✓	.002	.16	.01	.01
77 ✓	.064	8.00	.78	.63
78 ✓	.016	2.88	1.79	.97
79 ✓	.040	6.14	1.15	2.01

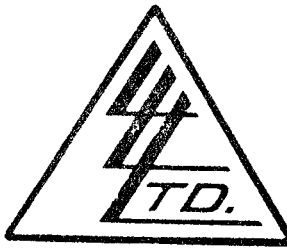
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 Assayer

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 Calgary, Alberta T2W 1Y4
 cc: Edy Topacid



File No. 25210
 Date September 9, 1983
 Samples Rock


Certificate of
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Page # 5

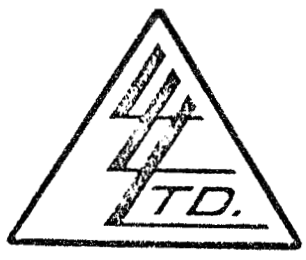
SAMPLE No.	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Geochemical Analyses"</u> TS-1005	241	270	1.6	25

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 Assayer

To: G. SALAZAR & ASSOCIATES LTD
 312 Cedarbrae Crescent S.W.,
 Calgary, Alberta T2W 1Y4



File No. 25210-1
 Date September 9, 1983
 Samples Rock

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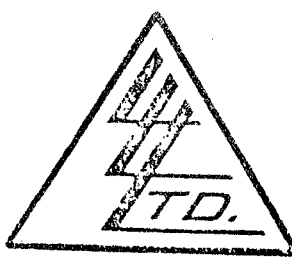
Page #1

SAMPLE No.	#3705	#3725	#3737
<u>Whole Rock</u>			
<u>Analysis</u>			
%			
Na ₂ O .	.03	.26	.02
CO ₂ .	.02	.02	.10
CaO .	4.98	41.23	3.78
MgO .	1.82	.94	1.91
Fe ₂ O ₃	8.58	3.07	14.59
Al ₂ O ₃	.15	.19	.43
SO ₃	4.12	3.65	2.27
TiO ₂	.02	.01	.05
SiO ₂	55.96	9.90	58.14
P ₂ O ₅	.17	.09	.22
Loss on Ignition	10.54	22.63	14.27
<p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p>			

Retained one month.
 Retained one month
 specific arrangements
 in advance.

 Assayer

To: G. SALAZAR & ASSOCIATES LTD
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Calgary, Alberta T2W 1Y4



File No. 25210-1
Date September 9, 1983
Samples Rock

Certificate of
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LORING LABORATORIES LTD.

Page #2

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
<u>"Recheck Analysis"</u>		
# 3712	.907	30.43
# 3737	.142	.20

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Pulps Retained one month
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made in advance.

Assayer

The Consolidated Mining and Smelting Company of Canada Limited

Hole No. 1 Sheet 1

DIAMOND DRILL SAMPLING RECORD

Property JARRET-VEGA Length 518.0 Lat. - Hor. Comp. 457.0 Ver. Comp. 278.0
 District Atlin B.C. Bearing N 77° E Dep. - Etch. at - Total Recovery % 14.5
 Commenced June 27, 1957 Dip -32° Elev. 555.0 (relative elev.) True Dip - Logged by D. J. Heddle
 Completed July 5, 1957 Objective To intersect vicinity of junction of two shears. Location -

FOOTAGE		DESCRIPTION	SHORTS FEET	SAMPLE NO.	LENGTH FEET	ANALYSIS						RECOVER %
FROM	TO					Ag Oz/T.	Ag Oz/T.	Cu %	P %	Zn %	Fe %	
0.0	51.0	Felsite dike.										
51.0	60.0	Andesite.										
60.0	72.0	Felsite dike.	1.5									
72.0	133.5	Andesite, numerous fractures with epidote and calcite.	1.5									
133.5	149.5	Felsite dike.	3.0									
149.5	202.5	Andesite, locally light colored with white streaking and epidote alteration. Calcite in fractures. Four-inch section pyrite with Cu stain on fracture.										
202.5	211.5	Felsite dike.	0.5									
211.5	290.0	Andesite, as preceding section but more epidote alteration, few short chloritic sections and patches quartz.										
290.0	299.0	Andesite, equigranular.	3.0									
299.0	303.0	Andesite, as preceding section but softer - more chloritic.	1.0									
303.0	315.5	Andesite, hard, mottled, few small local chloritic sections.										
315.5	320.0	Andesite, equigranular, softer than normal.										
320.0	324.0	Andesite, soft, mottled with quartz, speck of sphalerite with pyrite at 322.0'.										

The Consolidated Mining and Smelting Company of Canada Limited

Hole No. 2 Sheet 2

DIAMOND DRILL SAMPLING RECORD

Property LAMI-YEBA Length Lat. Hor. Comp. Ver. Comp.
 District Atlin, B.C. Bearing Dep. Etc. at Total Recovery %
 Commenced July 12, 1957 Dip Elev. True Dip Logged by
 Completed July 15, 1957 Objective Location

FOOTAGE		DESCRIPTION	SHORTS FEET	SAMPLE NO.	LENGTH FEET	ANALYSIS						RECOVER %
FROM	TO					As %	Gr %	Cu %	Pb %	Zn %	Ag %	
244.0	296.0	Andesite, epidote and hornblende alteration. 249.0' - 272.5' - Quartz biotite alteration. (felsitic appearance). Fragments at 296.0', suggest possible fault.	1.0									
296.0	424.5	Mottled reddish, cream and pale green rock, locally rich in epidote and hornblende. Believe a change in primary rock type from andesite to more acid type - a sharp fragmental at 298.0'. 305.0' - 313.0' - Silicified brecciated section with possible Zn 307.5' - 308.0'. 377.0' - 387.0' - Sericitic section.	1.5 0.5 1.0	74995	0.5	Tr	0.4	Tr	Tr	Nil	7.2	
424.5	434.0	Highly sheared felsitic rock, cream color, crumbly sections with powdery pyrite, local streaks quartz.	2.0	74996	5.5	Tr	0.2	Tr	Tr	Nil	5.3	
434.0	451.0	Felsite, grey-green color, highly fractured but not crumbly and sheared as 424.5' - 434.0', fine pyrite in fractures.	2.0									
451.0	457.0	Highly sheared felsitic section as 424.5' - 434.0'. Heavy quartz 452.0' - 453.5'. Quite crumbly with powdery pyrite.	1.5	74997	6.0	0.01	0.5	Tr	Tr	Nil	4.5	
457.0	473.0	Mainly mottled acidic rock with red (biotite) and green streaking. Local schistosity 70 - 80°. Hard except for local sericitic sections.	2.5									
473.0	481.0	Felsite, fairly uniform light grey rock, hard except for local sericitic sections.										
	481.0	End of hole.										

Exploration Office, Western District
 September 26, 1957
 Distributions: Mines Division (2)
 Western Expl'n (2)
 Property file (1)

The Consolidated Mining and Smelting Company of Canada Limited

DIAMOND DRILL SAMPLING RECORD

Hole No. 3 Sheet 3

Property N.A.T.A. Length Lat. Hor. Comp. Ver. Comp.
 District Atlin, B.C. Bearing Dep. Etch. at Total Recovery %
 Commenced July 15, 1957 Dip Elev. True Dip Logged by
 Completed July 27, 1957 Objective Location

FOOTAGE		DESCRIPTION	SHORTS FEET	SAMPLE NO.	LENGTH FEET	ANALYSIS						RECOVER %
FROM	TO					SiO ₂	Al ₂ O ₃	CaO	MgO	FeO	P ₂ O ₅	
422.5	473.0	Acid volcanic, fine-grained pale greenish grey color with reddish not- tings - probably due to presence of fine biotite. Few minor streaks pyrite.	1.5									?
	473.0	End of hole.										

Designed
 Exploration Office, Western District
 September 26, 1957
 Distributions: Mines Division (2)
 Western Expl'n (2)
 Property file (1)

LIST OF FORMATIONS (cont'd.)

CLASS	FORMATION SYMBOL	FORMATION DESCRIPTION	SPECIMEN NOS.
# 858	D ₄	Grey green andesite, crystalline, felsite and Femag. phenocrysts.	# 39, 231.
# 858	D ₅	Grey green with fels phenocrysts. Outlines or edges not clear cut.	# 166, 30.
# 858	D ₆	Normal with typical dark green fragments or crystals plus large fels in rosettes.	# 118, 92.
# 858	D ₇	Yellowish green fels porphyry rock 70% Fels, 1/4".	
	D ₈	A G	
Flows			
# 868	F ₁	Dark green fairly basic, fine grained calcareous.	# 112, 161.
# 868	F ₂	Grey green massive with hematite and pyrite.	# 167
# 868	F ₃	Y Volcanics	# 173, 214, 178, 124, 77.
# 868	F ₄	Massive, dense, normal, non-calcareous, with 1/32" yellowish kaolized felsite ?	# 157, 249 ?
# 868	F ₅	Normal greenstone flow.	# 145, 130.
# 868	F ₆	Dark normal greenstone flow. Similar to F ₁ and F ₂ .	# 146, 132.
Schists, Origin Unknown.			
# 868	S ₁	Normal greenstone schist.	
# 868	S ₂	Normal greenstone schist with quartz and carb. streaks. & II	
# 867	S ₃	Carb. chl. greenstone schist., probably schist calc. P. Similar to T ₈	
Massive, Unidentified.			
# 868	M ₁	Dark grey green.	
	M ₂	Mass normal, fine grained, dense.	# 93, 95
Tuffs			
# 848	T ₁	Thin bedded, banded, AG to normal	# 207, 194

LIST OF FORMATIONS (cont'd.)

CLASS	FORMATION SYMBOL	FORMATION DESCRIPTION	SPECIMEN NOS.
# 848	T ₂	Thin bedded, banded, AG	# 141
# 848	T ₃	Thin bedded, banded, grey and green.	# 103
# 348	T ₄	Thin bedded, banded, greyish green.	# 61, 87
# 848	T ₅	Thin bedded, banded, dark normal, basic.	# 206, 139, 140, 57, 60
# 843	T ₆	Thin bedded, banded, dark bluey grey to light grey limestone tuff.	# 111
# 848	T ₇	Banded, mustardy grey.	# 58, 57
# 848	T ₈	Banded, dark to AG, with hairlike carb. streaks, highly calcareous.	# 147
# 848	T ₉	Massive, normal.	# 188, 127
# 813	T ₁₀	Massive dark blue grey limestone tuff.	
Interbedded T & P # 848			
# 848	TP ₁	Normal, thin bedded.	# 108, 104, 62
	TP ₂	Dark grey green, basic.	# 212, 51, 56, 184.
# 813	TP ₃	Normal P with typ dark green fragments etc., with interbedded and mottled dark blue grey. T.	
	TP ₄	Normal interbedded TP ₁ brecciated and impregnated with epidote and magnetite.	
	TP ₅	AGP & T. Calcareous.	
# 862	TP ₆	P 2 plus T. light cream with mariposite.	
# 862	TP ₇	Grey calcareous T plus med. grey green P.	

LIST OF FORMATIONS (cont'd)

CLASS	FORMATION SYMBOL	FORMATION DESCRIPTION (cont'd.)				SPECIMENS			
		(Typical (dark green) (fragments)	(Greenstone) (fragments) (normal to (bluey and (dark green)	(Light (coloured (calcareous) (fragments) (green to (brown	(White (Calcareous) (fragments)	(Typical (dark (green (fragment (are with (in the (light (coloured (calcareous (fragmen			
Pyroclastics # 848									
	P ₁ (Normal to bluey green)	X			X			No	#17 21
	P ₂ (Normal to bluey green)	X	X					No	#82 45 78 236
	P ₃ (Dark grey)	X			X				#200
	P ₄ (AGP green cal- careous.)	X	X						
	(a) (Yellowish AG to nor- mal to dark)	X			X			Yes	(a) #181 94 119
P ₅ #858	(b) (Grey green, calcareous)								(b) #239 223 165
P ₆ #858	(AG to bluey green)	X	X		X			Yes	#125
P ₇ #848	(AG to normal)	X	X			X			# 41 183 21

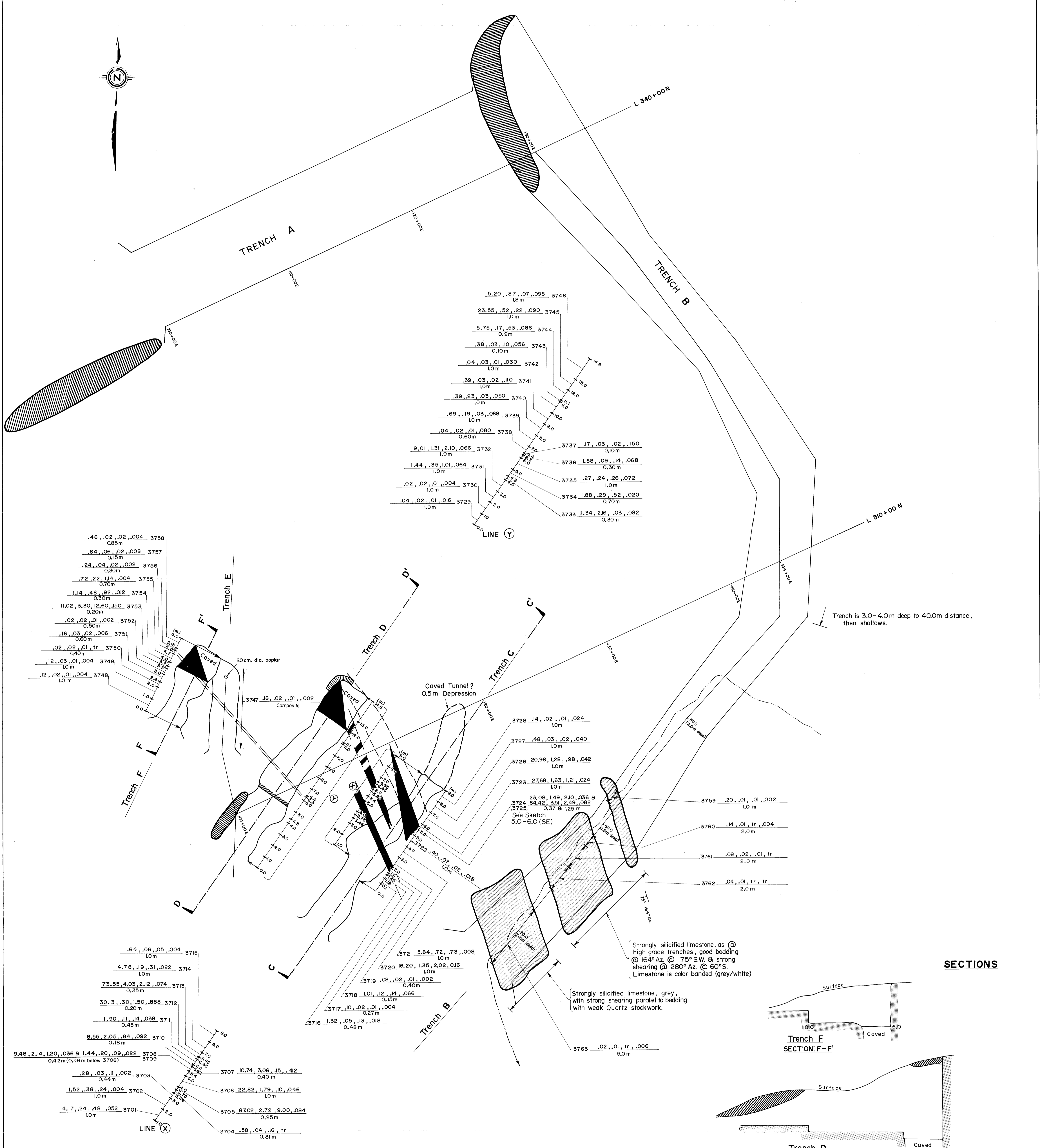
LIST OF FORMATIONS (cont'd.)

CLASS	FORMATION SYMBOL	FORMATION DESCRIPTION (cont'd.)				SPECIMENS
		(Typical dark green fragments)	(Greenstone fragments normal to bluey and dark green)	(Light Coloured calcareous fragments green to brown)	(White calcareous fragments)	
		X				(Typical dark green fragments are with- in the light coloured calcareous fragments.)
P ₈	(AG to grey)	X				#116 46 25
P ₉	(Normal)		X			(Fine #189 grained)
P ₁₀	(Bluey green to grey)			X		#182
P ₁₁	(Normal)		X	X		
P ₁₂ 862	(Cream mariposite)					# 219 222
P ₁₃	(Normal)			X		
P ₁₄	(P. or Breccia, large gs. & Ls. frags.)					

LIST OF FORMATIONS (cont'd.)

NUMBERS	FORMATION SYMBOL	FORMATION DESCRIPTION	SPECIMEN NOS.
Limestones			
853	LS ₁	White massive	
	LS ₂	Light grey massive	
	LS ₃	White, thin-bedded	
	LS ₄	Grey, thin-bedded	
	LS ₅	White and grey interbedded	
	LS ₆	Brown and Buff	

The numbers in the left-hand column refer to the color of Mongol Pencil used for that formation on the maps. Those in the right hand column to specimens of that formation in specimen suite at the mine. The same color scheme as used in the 300 scale map has been kept except in a few cases where it has been necessary to change it.



LINE X

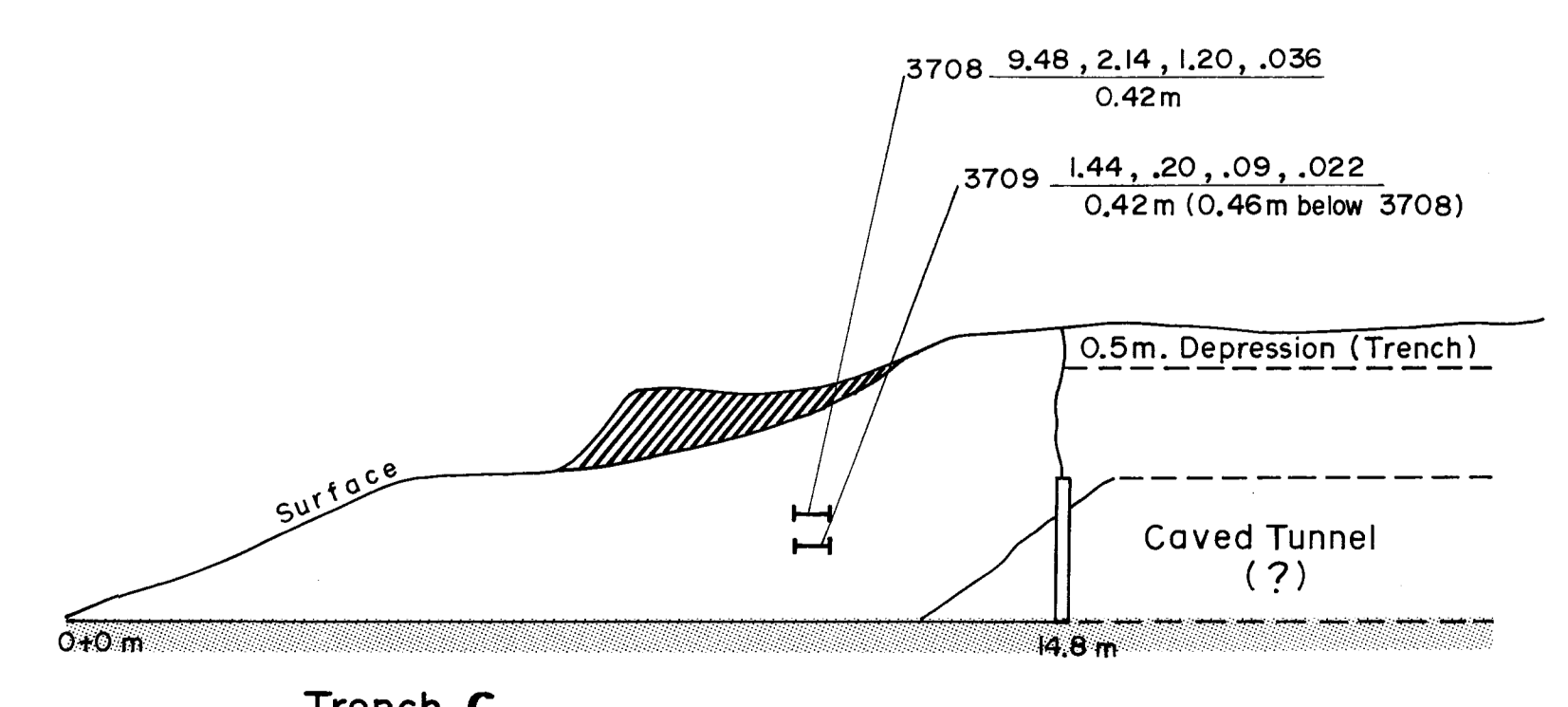
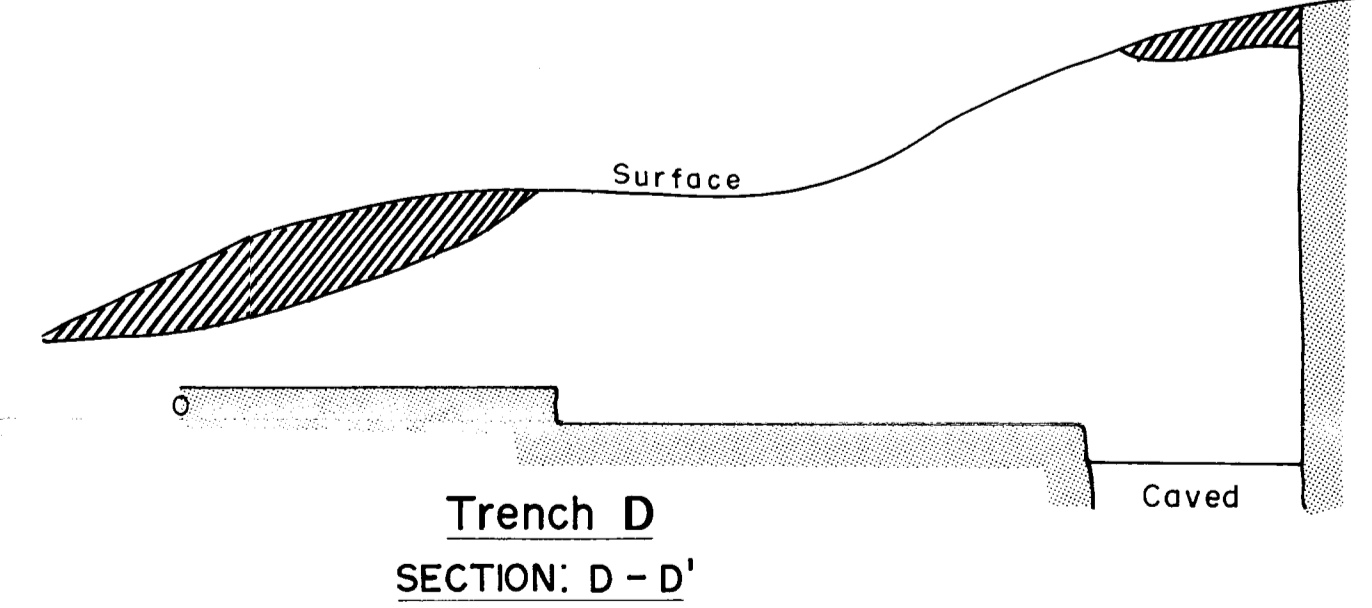
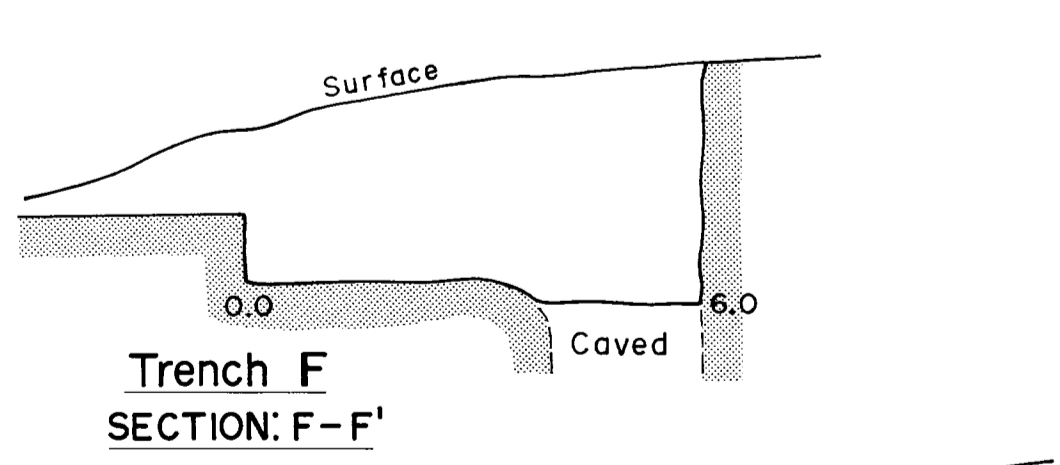
.46, .02, .02, .004	3758	0.85m
.64, .06, .02, .008	3757	0.15m
.24, .04, .02, .002	3756	0.30m
.72, .22, .14, .004	3755	0.70m
1.14, .48, .92, .012	3754	0.30m
11.02, 3.30, 12.60, .150	3753	0.20m
.02, .02, .01, .002	3752	0.50m
.16, .03, .02, .006	3751	0.60m
.02, .02, .01, tr	3750	0.40m
.12, .03, .01, .004	3749	1.0m
.12, .02, .01, .004	3748	1.0m

.64, .06, .05, .004	3715	1.0m
4.78, .19, .31, .022	3714	1.0m
73.55, 4.03, 2.12, .074	3713	0.35m
30.13, .30, 1.50, .888	3712	0.20m
1.90, .11, .14, .038	3711	0.45m
8.55, 2.05, .84, .092	3710	0.18m
9.48, 2.14, 1.20, .036 & 1.44, .20, .09, .022	3708	0.42m (0.46m below 3708)
.28, .03, .11, .002	3703	0.44m
1.52, .38, .24, .004	3702	1.0m
4.17, .24, .48, .052	3701	1.0m

LINE Y

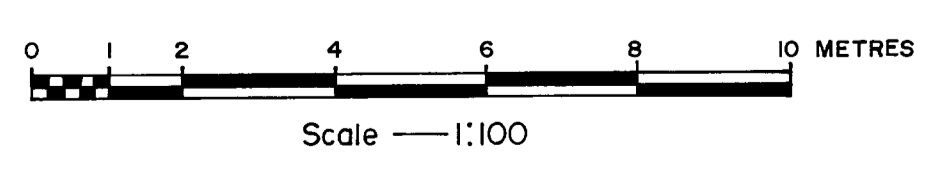
5.20, .87, .07, .098	3746	1.8m
23.55, .52, .22, .090	3745	1.0m
5.75, .17, .53, .086	3744	0.9m
.38, .03, .10, .056	3743	0.10m
.04, .03, .01, .030	3742	1.0m
.39, .03, .02, .110	3741	1.0m
.39, .23, .03, .050	3740	1.0m
.69, .19, .03, .068	3739	1.0m
.04, .02, .01, .080	3738	0.60m
9.01, 1.31, 2.10, .066	3732	1.0m
1.44, .35, 1.01, .064	3731	1.0m
.02, .02, .01, .004	3730	1.0m
.04, .02, .01, .016	3729	1.0m
3737, .17, .03, .02, .150		0.10m
3736, 1.58, .09, .14, .068		0.30m
3735, 1.27, .24, .26, .072		1.0m
3734, 1.88, .29, .52, .020		0.70m
3733, 11.34, 2.16, 1.03, .082		0.30m

SECTIONS



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,707



LEGEND:

- Step Down
- Spill Pile
- Sample Interval in Metres
- Shaft

TRENCH D

Sample No.	Ag (%)	Pb (%)	Zn (%)	Au (g/t)
1276	35.15	30	1.5	.888

20m (width of sample)

30+00N.....SOIL GEOCHEMICAL GRID (August 1983)

SECTION LINE

Y.....SEE DETAIL Y

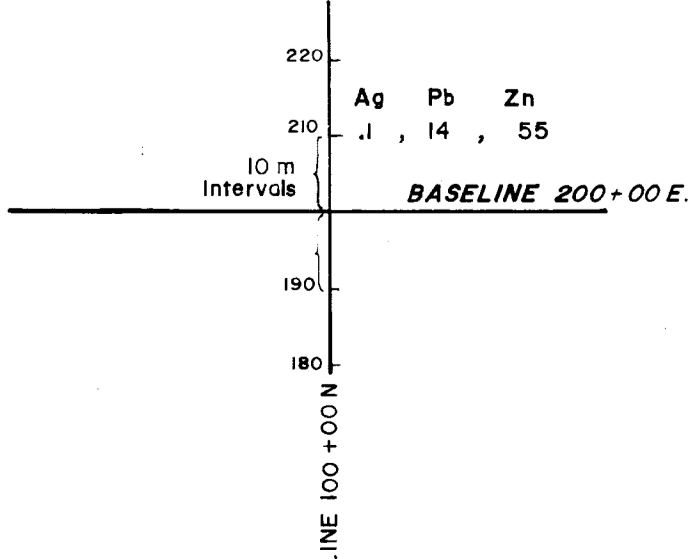
SILVER TALON MINES LTD.	
BANKER SHOWING TRENCHES & ASSAY RESULTS	
G. SALAZAR S. & ASSOC. LTD. INT. GEOL. CONSULTANTS 312 Cedarbrae Cres. SW Calgary Alberta	
NTS 104K/12E	Date
Work by: G. Salazar S., P. Eng	Revised
312 Cedarbrae Cres. SW	Sept. 30, 83
Calgary Alberta	
Map No. 3	



LEGEND:

- SHAFT
- TRENCH
- CREEK
- CABIN
- TRAIL
- CLIFF

LEGEND: SOIL GEOCHEMICAL GRID



NOTE:
 ① Silver Contours 0.3, 1.0, 1.6, 3.0 & 5.4 ppm shown as solid lines.
 ② Drill Hole & Sparing Cabin location approximate.

12,707 SILVER - LEAD - ZINC

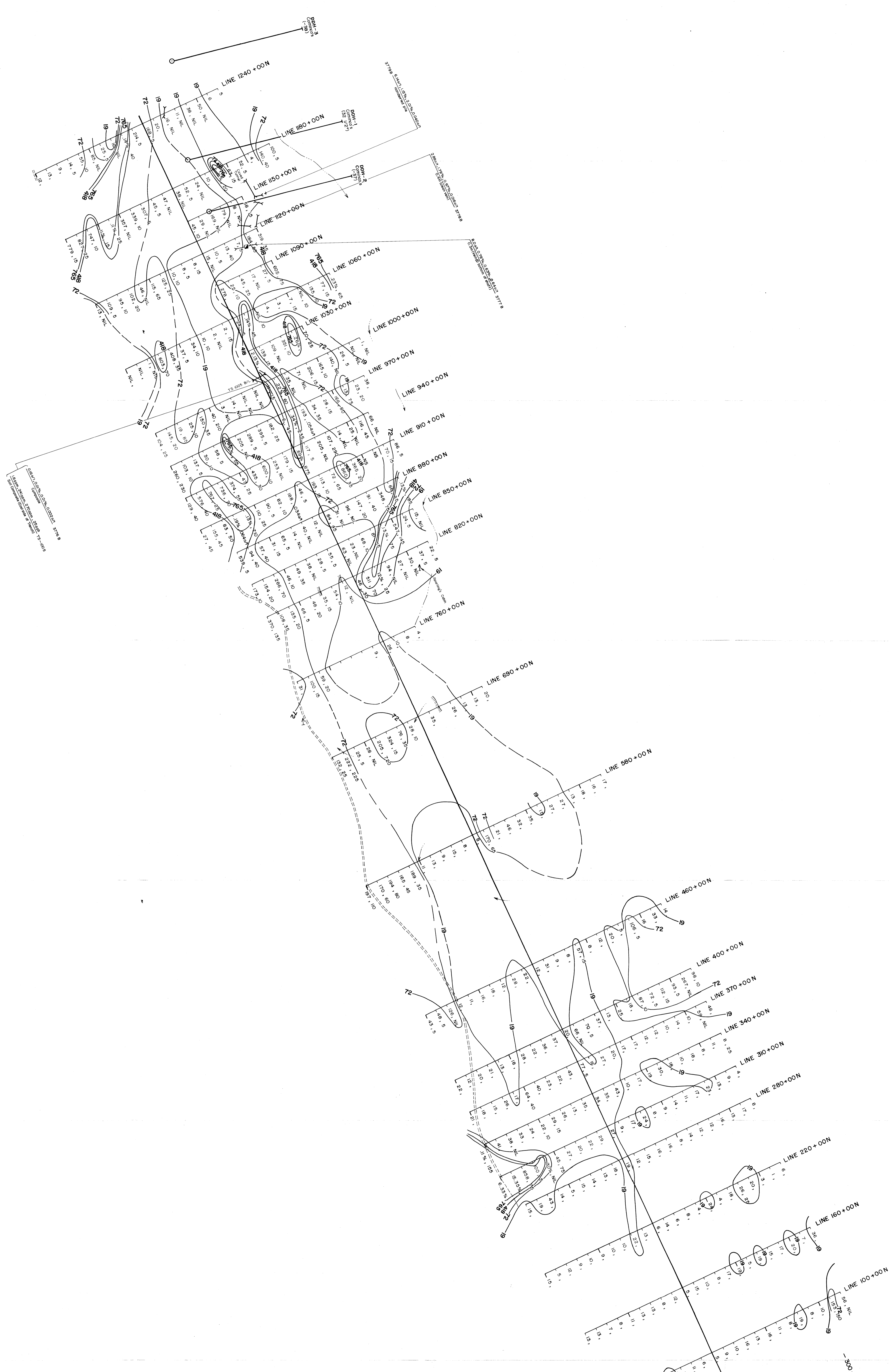
Scale 1:1000

UPDATES		DATE	REVISION	BY	REASON

SILVER TALON MINES LTD.
 BANKER - SPARLING SHOWINGS
 SOIL GEOCHEMICAL GRID

G. SALAZAR S & ASSOC'S LTD.
 INT. GEOL. CONSULTANTS
 312 Cedarbrae Cres. SW
 Calgary Alberta
 Map No. 4

NTS 104K/12E
 Work by G. Salazar S.P. Eng.
 Drawn by: [Signature]
 Map No. 4



LEGEND:

- SHARP
- TRENCH
- CREEK
- CABIN
- TRAIL
- CLIFF

LEGEND: SOIL GEOCHEMICAL GRID

- 1.00 200
- 2.00 250
- 3.00 300
- 4.00 350
- 5.00 400
- 6.00 450
- 7.00 500
- 8.00 550
- 9.00 600
- 10.00 650
- 11.00 700
- 12.00 750
- 13.00 800
- 14.00 850
- 15.00 900
- 16.00 950
- 17.00 1000
- 18.00 1050
- 19.00 1100
- 20.00 1150
- 21.00 1200
- 22.00 1250
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