ASSESSMENT

REPORT

ON THE

STAR, PUL, SUN and SKARN CLAIMS

ACAPULCO GROUP

TOODOGGONE RIVER AREA

OMINECA MINING DIVISION

BRITISH COLUMBIA

N.T.S. 94 E / 2W

57, 12 North Latitude; 127, 57 West Longitude

FOR

TANUTA VENTURES CORP.

BY

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OCTOBER 15, 1997

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1.0 SUMMARY

The Star, Pul, Sun and Skarn claims of Tanuta Ventures Corp. are located in the Toodoggone River area of North Central British Columbia at approximately twelve kilometres southeasterly of the Baker Mine, and eight kilometres east of the Sturdee airstrip.

The property is underlain by Permian Asitka Group limestone, and Lower Jurassic Omineca intrusive rocks. Extensive zones of skarn type mineralization containing gold, silver, copper, lead and zinc, have been developed at the limestone/intrusive contact, which have been the focus of exploration by S.E.R.E.M. during the period 1980-87. Since 1987 the Star, Pul and Sun claims have been maintained by S.E.R.E.M. Inc. Work completed by the company consisted of silt and soil geochemical sampling, rock sampling, geology, magnetics, a V.L.F.-E.M. survey, prospecting and diamond drilling.

In 1987, five B-Q size drill holes were completed for a total of 864.67 metres. The best results obtained in the drilling were 1.0 metre at 0.379 Au oz/T, 7.175 Ag oz/T in 87-A-5, and 0.078 Au oz/T. 0.50 Ag oz/T for 12.21 metres, 0.047 Au oz/T, 0.33 Ag oz/T for 16.20 metres in 87-A-3.

Surveys undertaken by Tanuta Ventures Corp. during the summer of 1997 consisted of prospecting and rock sampling, survey grid establishment, soil geochemical sampling with analysis for gold, silver, copper, lead, zinc, arsenic, cobalt, nickel and molybdenum, a magnetometer survey and a V.L.F.-E.M. survey.

Results of the 1997 work are extremely encouraging. Soil geochemical anomalies for gold, silver, lead, zinc, copper and molybdenum form an oval halo around the height of land defined by the Asitka limestone unit. This anomalous trend is directly related to the skarn zones formed at the interface between the limestone and underlying intrusions.

Potential exploration targets for the property are considered to be the limestone/intrusive interface area where skarn development containing precious metals and sulphides of copper, lead and zinc, has occurred.

On the strength of the results of previous exploration work by S.E.R.E.M. including diamond drilling, and the current surveys completed by Tanuta Ventures Corp. in 1997, additional exploration is warranted as described at an estimated cost of $ 246,000.00 in Phase I.

2.0 INTRODUCTION

The Tanuta Ventures Corp. optioned Acapulco Group consisting of the Star, Pul, Sun and Skarn claims (47 units), is situated approximately eight kilometres due east of the Sturdee airstrip and seven kilometres north of the junction of the Firesteel and Finlay Rivers in the Toodoggone River area of north-central British Columbia.

The property consisting of the Sun (8 units), Star (15 units), Pul (12 units) and the Skarn (12 units) is located at 57 degrees, 12 minutes North Latitude; 127 degrees, 57 minutes West Longitude, immediately south and west of Drybrough Peak. The author examined the legal corner post for the Pul claim and it appears to be located in accordance with all applicable laws.

Previous work in the area consisted of copper and molybdenum exploration by Cordilleran Engineering in 1968 and by Minas de Cerro Dorado in 1973. Work performed by S.E.R.E.M. in 1980 resulted in the location of the Sun, Star, and Pul claims with the property being maintained to the present. The Skarn claim was located in 1997 as part of the exploration program.

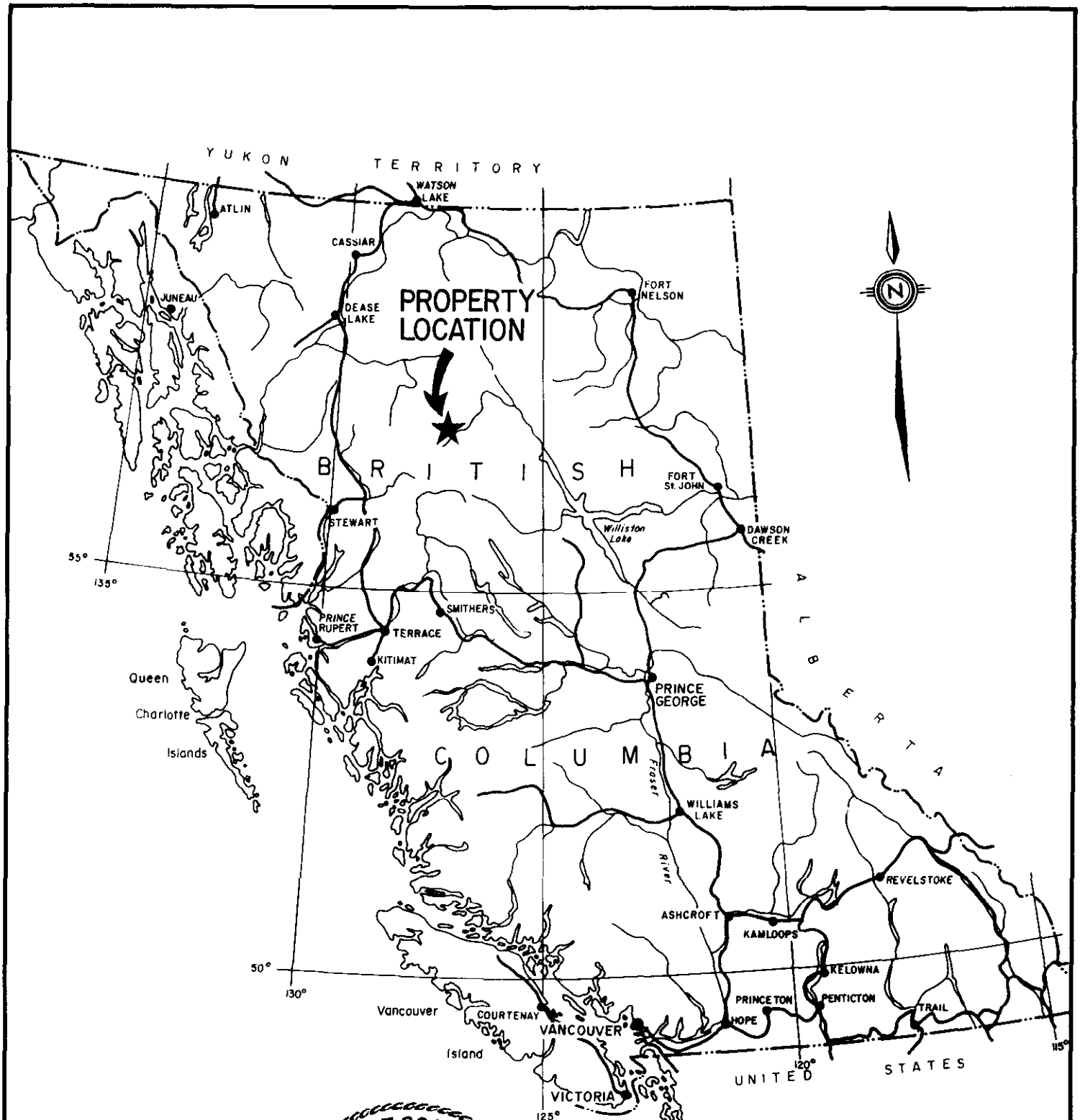
Work undertaken by S.E.R.E.M. included silt sampling of drainage, grid soil sampling, rock sampling, geology, magnetics, V.L.F.-E.M., and diamond drilling.

Recent exploration by Tanuta Ventures Corp.. during 1997 consisted of prospecting and rock sampling, grid establishment and soil sampling, a magnetometer survey, a V.L.F.-E.M. survey, and geology.

The author was requested by Tanuta Ventures Corp. to supervise and conduct the work programs undertaken in 1997.

PROPERTY LOCATION MAP

PLAN NO. 1



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

Km 100 0 100 200 300 400 Km

MILES 100 50 0 100 200 MILES

TANUTA VENTURES CORP.

PROPERTY LOCATION MAP

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

Drawn: J.R.P.	Checked: J.R.P.	PLAN No.
Scale: As shown	Date: Oct. 15, 1997	1

3.0 LOCATION AND ACCESSIBILITY

The Tanuta Ventures Corp.. Acapulco Group is located at 57 degrees, 12 minutes North Latitude, 127 degrees, 57 minutes West Longitude in the Toodoggone River Area, Omineca Mining Division of British Columbia, N.T.S. 94E / 2W.

The claims are centered at approximately eight kilometres due east of the Sturdee airstrip, and seven kilometres north of the junction of the Firesteel and Finlay Rivers. The Baker Mine and Mill complex is situated at twelve kilometres northwesterly.

Access to the property is via fixed wing aircraft to the Sturdee airstrip from Prince George or Smithers, and then by helicopter, and additional distance of about eight kilometres.

Smithers is located approximately 280 kilometres south of the Sturdee airstrip. The nearest road access is the Baker Mine access road or the main Cheni Mine road south of the Sturdee airstrip.

The main Omineca Mine access road from Windy Point on the Provincial Highway #97, north of Prince George is being upgraded by logging companies to the Osilinka camp and then by Royal Oak (Kemess Mine) and the Provincial Government to the area of the Sturdee airstrip. A hydro electric power line is being installed along the access road to supply power to the Kemess Mine.

4.0 CLAIM INFORMATION

The property consists of the Star (15 units), Pul (12 units), Sun (8 units) and the Skarn (12 units) for a total of forty-seven units. Claim data is as follows:

NAME	UNITS	REC.NO.	RECORD DATE	EXPIRY DATE
Star	15	238410	Mar.26/81	Mar.26/98
Pul	12	238309	Aug.15/80	Aug.15/98
Sun	8	238411	Mar.26/81	Mar.26/98
Skarn	12	358286	Aug.13/97	~~Aug.13/98~~ July 30/98

Sufficient exploratory work has been completed in 1997 to extend the expiry dates beyond 1998.

Tanuta Ventures Corp.. has entered into an Earning Option agreement with Mr. John M. Mirko, as described in the agreement subject to a 3% Net Smelter Return Royalty to Cheni Resources Inc.

The claims have been maintained by S.E.R.E.M. and Cheni Resources Inc. since the location dates to the present with exploration being completed actively until 1987 with the completion of five diamond drill holes.

5.0 PHYSICAL FEATURES

The Tanuta Ventures Corp. property covers the height of land formed by Permian Asitka Group limestone which overlies Lower Jurassic Omineca intrusion, with elevations ranging from 1400 metres to 2065 metres above sea level. Tree line generally lies at about 1650 metres above sea level.

Variable outcrop patterns exist with the best rock exposures being along the height of land and steep mountain ridges, and in creeks and gullies.

Ample water is present for camp requirements and potential diamond drilling needs. Diamond drilling can be accessed via Drybrough Creek from the Cheni Mine access road or by using helicopter support.

PHOTO #1 - LOOKING WEST FROM L.C.P. PUL CLAIM.
BASE LINE 100+00E, 100+00N IS AT PEAK CENTRE OF PHOTO

PHOTO #2 - LEGAL CORNER POST, PUL CLAIM LOOKING WEST. ASITKA GROUP LIMESTONE AT HEIGHT OF LAND IN BACKGROUND

PHOTO #3 - LOOKING SOUTH TOWARDS LIMESTONE RIDGE

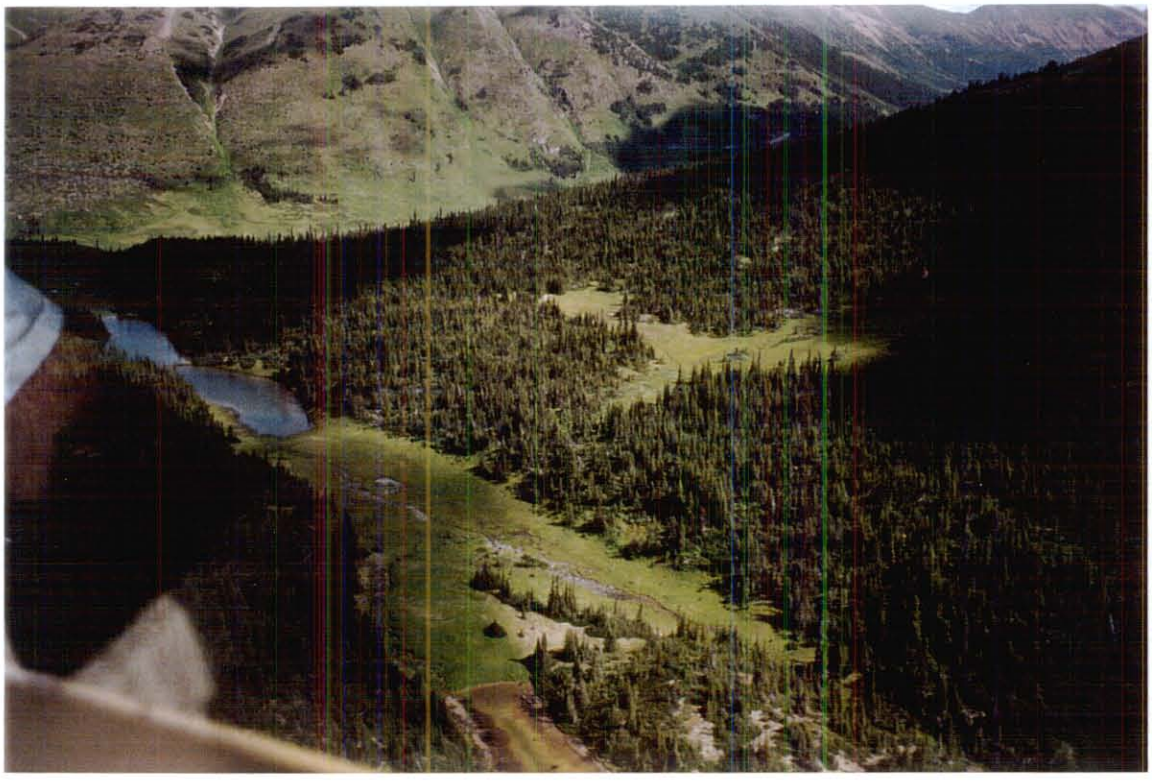


PHOTO #4 - LOOKING NORTH, 90+00 T/L TO LEFT OF LAKE. SKARN CLAIM IN BACKGROUND

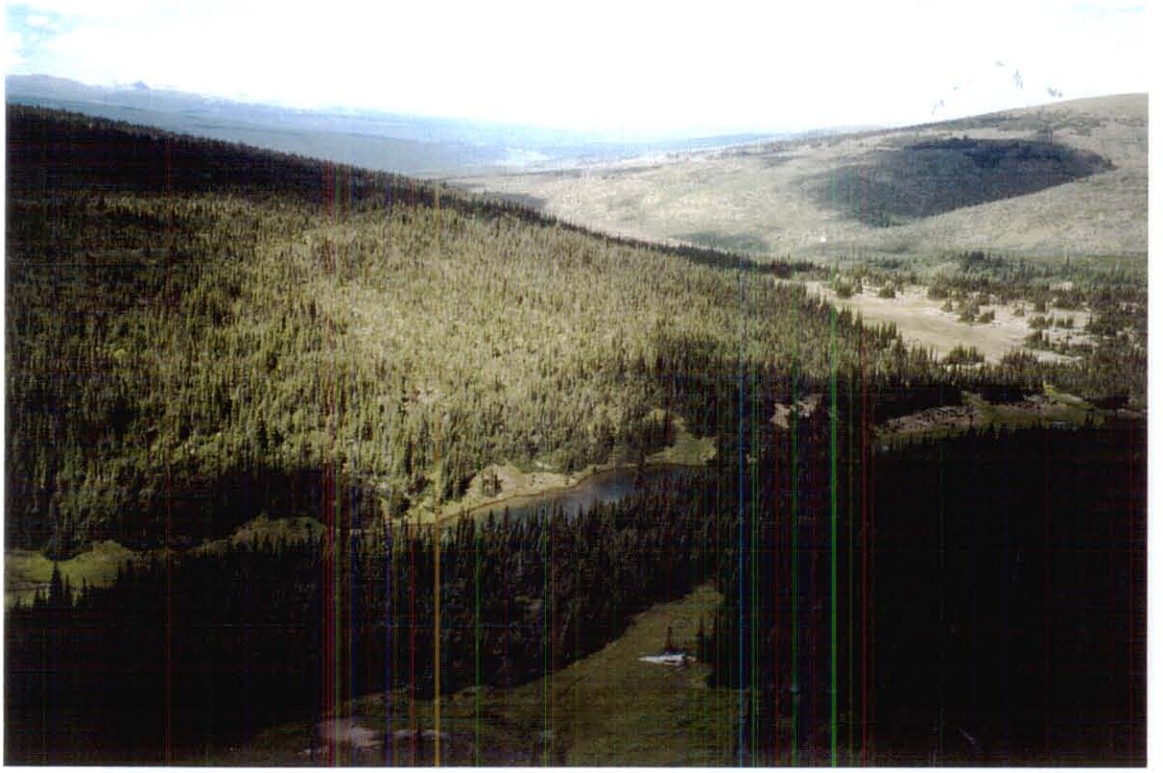


PHOTO #5 - LOOKING N.W. DRYBROUGH CREEK DRAINAGE AND ROAD ACCESS IN UPPER RIGHT OF PHOTO WITH THE STURDEE AIRSTRIP IN THE VALLEY IN DISTANCE

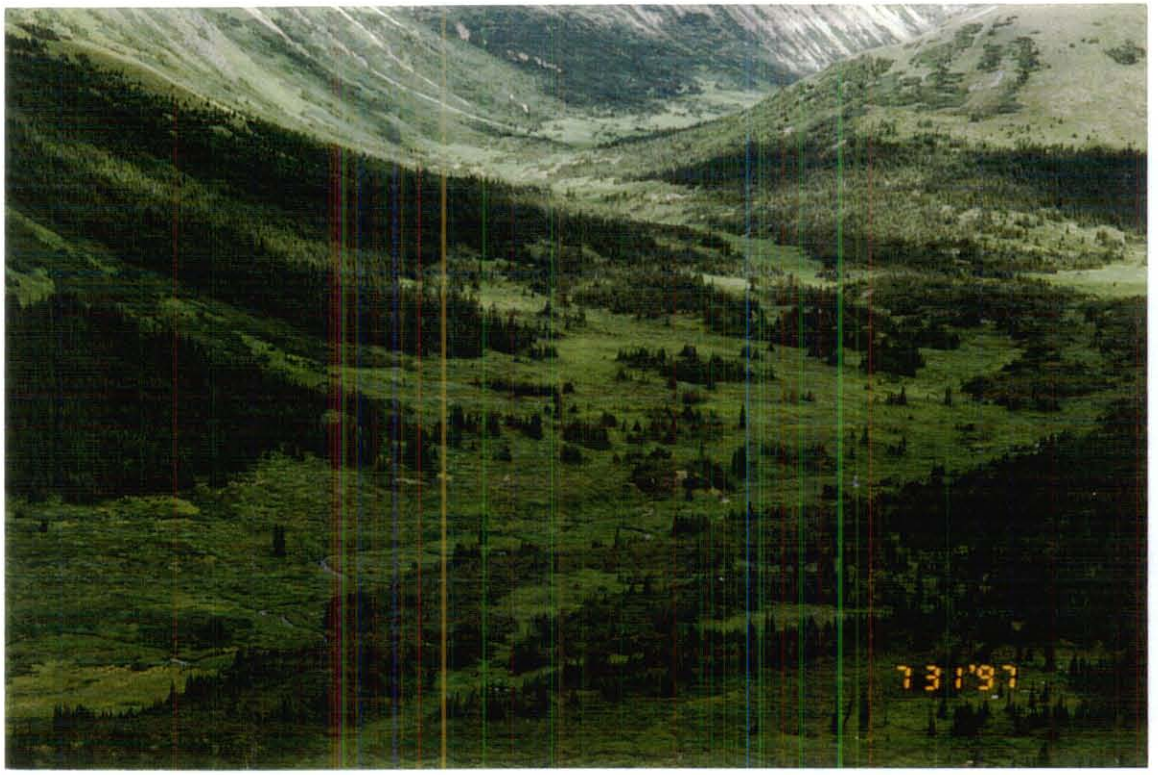


PHOTO #6 - LOOKING N.E. UP MAIN VALLEY OF DRYBROUGH CREEK FROM LIMESTONE RIDGE

PHOTO #7 - HEIGHT OF LAND ALONG B/L AT ABOUT 102+00N. ASITKA LIMESTONE OUTCROP.

PHOTO #8 - LOOKING NORTH FROM AREA OF SUN CLAIM

PHOTOS #8 & #9 COPPER STAINED BOULDERS IN TALUS BELOW L.S. OUTCROP, EAST OF BASELINE.

PHOTO #10 - IRON STAINED, COPPER STAINED FLOAT FROM SAME AREA AS PHOTOS #8 & #9

PHOTO #11 - LOOKING WEST FROM L.C.P PUL CLAIM.
SAMPLE LOCATIONS SHOWN

NO	AU g/T	AG g/T	CU %
5972	6.09	192.0	25.60
L98,104+30E	3.33	41.8	1.76
L94,102E	0.05	43.5	

PHOTO #12 - OLD COMINCO SHOWING LINE 95N-94E LOOKING NORTHERLY

NO	AU g/T	AG g/T	CU%	PB%	ZN%
L95N,94E	0.06	43.5		8.50	12.10
L95N,94+55E	0.15	278.0	1.040		

PHOTO #13 - AREA OF DIAMOND DRILLING 1987. DOZER ACCESS ROAD, LOOKING NORTH TOWARDS SKARN CLAIM

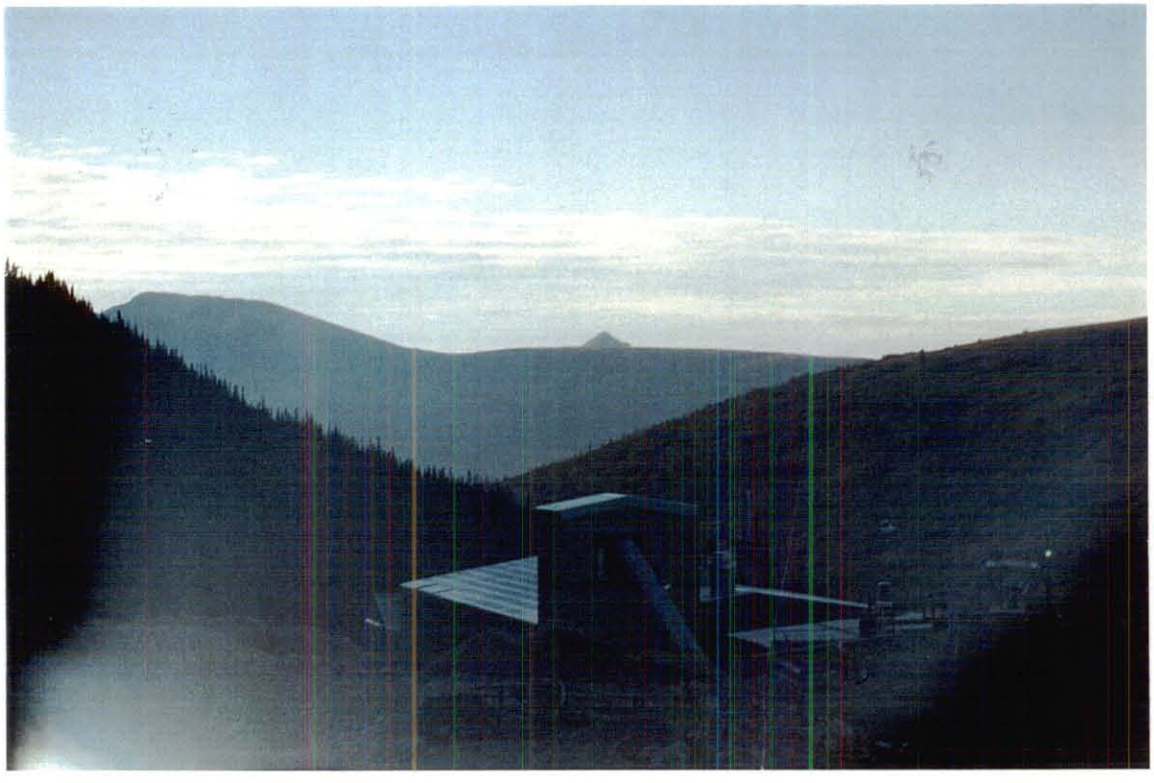


PHOTO #14 - LOOKING SOUTH FROM BAKER MILL TOWARDS LIMESTONE PEAK IN MIDDLE BACKGROUND PHOTO CENTRE

PHOTO #15 - LOCATION OF L.C.P. FOR SKARN CLAIM LOOKING N.W.

PHOTO #16 - GEOLOGICAL INTERPRETATION
LOOKING WEST FROM L.C.P. PUL CLAIM

Looking west from Pul L.C.P.

6.0 HISTORY

Initial work on parts of the property dates back to 1972 when Amax located the Dumac Group of claims. In 1977 Cominco located four units covering parts of the present Star and Sun claims. Minas de Cerro Dorado owned the Riga Group located 2 kilometres to the northeast of the present property. The Riga claims were restaked for Quebec-Cartier Mining in 1968 by Cordilleran Engineering.

Assessment report #6762 by J.C. Caelles for Cominco Ltd. dated June 1, 1978 describes a reconnaissance soil geochemical survey on the 4-unit Amigo Group. Mineralization exposed consisted of skarn type Zn/Cu/Pb/Ag showings occurring at a quartz-monzonite-limestone contact. Reconnaissance soil geochemical sampling was undertaken over the inferred intrusive-limestone contact area in a grid approximately 600x600 metres, with sample sites at 50 metres intervals. B-horizon material was sampled and analysis completed at Cominco's laboratory in Vancouver. As reported by Caelles, at least three anomalous zones were outlined with the largest being 150x100 metres enclosed by the 1500 ppm Zn contour.

S.E.R.E.M. Inc. undertook silt, soil and rock sampling, geological mapping, magnetics, a V.L.F.-E.M. survey in 1980, 1982 and 1985, culminating with the completion of 864.67 metres of diamond drilling in 1987. Work performed by S.E.R.E.M. in 1980 included drainage silt sampling, soil sampling along treeline and one grid, preliminary mapping and minor prospecting of about 2.1 square kilometres. Samples collected were, silt 35, soil contour 82, soil grid 105 and rock prospecting 25.

Silt samples were collected along streams at 150 to 250 metre intervals depending on suitable sample locations. Geochemical soil sampling along treeline at approximately constant elevation, using topofil or pacing as control was completed at approximately 100-150 metre intervals. Soil sampling along an established grid was undertaken in an area of poor rock exposure. Samples were collected at 100 metre intervals along lines at

100 metre spacing. Generally samples were collected from the B-horizon if developed, the top of the C-horizon if the B-horizon was poor, and the A-horizon in swampy areas. Rock samples were collected from outcrops or talus of favourable geology.

Analytical work was completed by Min-En Laboratories with analysis being done for gold, silver, lead, zinc and copper.

The 1980 work covered parts of the Aca and Acapulco claims contiguous on the north to the Pul claim. Further prospecting and trenching were recommended accompanied by a detailed study of fracture patterns to determine trends of mineralization. A copy of the report by Crawford, S.A. and Vulimiri, M.R. dated December 1980 describing Geochemical and Prospecting is appended in Appendix D.

In 1985 S.E.R.E.M. Inc. completed geological and geophysical surveys over the Pul, Sun, and Star claims situated immediately south and west of Drybrough Peak. The work consisted of detailed geological mapping and a V.L.F. - E.M. survey, over a re-established survey grid which followed the original grid as closely as possible. A total of 1.3 kilometres of baseline and 12.4 kilometres of crosslines were established.

Geological mapping at a scale of 1:5000, and 12.5 kilometres of V.L.F.-E.M. survey was carried out. For the geophysical survey a Geonics E.M.-16 unit was used as a receiver, with NLK, Seattle 24.8 Khz the transmitter. The V.L.F.-E.M. unit can define conductors caused by electrolyte-filled fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological boundaries as well as sulphide bodies. The Fraser filter method was applied to the In-phase data. The results of the S.E.R.E.M. geophysical survey data are included in Appendix D of the report.

As described by Vulimiri, M.R. and Crooker, G.F. October 1985,

"*GEOPHYSICS*

The Fraser filter method was applied to all In-phase readings to allow contouring of the data. The results were contoured at 10 percent intervals.

Two conductors were delineated by the VLF electro-magnetic survey.

Conductor A consists of two sub-conductors extending from L-3N;1+20E to L-10S;0+80E, a distance of 1200 metres. This is a very strong conductor, delineating a contact zone (skarn?) between the intrusion and the overlying limestone unit. Skarn outcrops are observed at some locations, where exposed, along the conductor.

Conductor B consists of a weak to moderate conductor extending from L-3N;5+80E to L-2S;6+00E. This corresponds to a feldspar porphyry intrusive dyke and related skarn zones"

It is further stated,

"POTENTIAL

Assays of samples with skarn mineralogy with even small amounts of chalcopyrite and other copper-bearing minerals show significant amounts of gold (up to 0.78 oz/ton.)"

As described in the 1985 report, magnetite bearing skarns with only magnetite carry little gold values but samples with copper-bearing sulphides and magnetite often carry significant gold values. Skarns are the most important in terms of precious metals.

As described by Vulimiri and Crooker, " *The west contact zone of the limestone and intrusion was traced along approximately north-south by geophysics V.L.F.-E.M. and to a minor extent by geology and geochemistry (1980 report) for a distance of 1200 metres, and along east-west direction under the ridge by geological methods and interpretation for a distance of about 900 metres."*

Further work was recommended by Vulimiri and Crooker including dozer and backhoe trenching along the western limestone-intrusion contact because of the gentle terrain and accessibility from the Sturdee airstrip/Cheni Mine road.

Drilling was also recommended. This was undertaken in 1987 with excellent success.

Five B Q size diamond drill holes were completed on the Star claim for a total of 864.67 metres. Location is shown on Plan No. 6 included in Appendix D.

Drill hole data is as follows:

DDH #87-A-1

Length **170.69 metres**

Azimuth **281 degrees**

Inclination **-70 degrees**

INTERVAL	LENGTH	ASSAY DATA		
	M.	Au oz/T	Ag oz/T	Cu %
122-134	1.0	0.005	0.12	0.034
134-135	1.0	0.001	0.08	0.036
135-136	1.0	0.009	0.29	0.212
136-137	1.0	0.053	2.73	2.670
137-138	1.0	0.002	0.36	0.480
138-139	1.0	0.002	0.11	0.032
139-140	1.0	0.001	0.05	0.016
140-141	1.0	0.001	0.06	0.009

DDH #87-A-2

Length **144.78 metres**

Azimuth **281 degrees**

Inclination **-55 degrees**

INTERVAL	LENGTH	ASSAY DATA		
	M.	Au.oz./T.	Ag.oz./T	Cu %
74.95-75.95	1.0	0.014	0.59	
75.95-76.95	1.0	0.028	0.53	
76.96-77.95	1.0	0.036	0.60	
77.95-78.95	1.0	0.010	0.18	

DDH 87-A-3

Length	158.44metres
Azimuth	234 degrees
Inclination	-60 degrees

INTERVAL	LENGTH M.	ASSAY DATA Au oz/T	Ag oz./T	Cu %
93.36-94.36	1.0	0.116	0.61	
94.36-95.36	1.0	0.047	0.36	
95.36-96.36	1.0	0.032	0.24	
96.36-97.36	1.0	0.034	0.29	
97.36-98.36	1.0	0.134	0.57	
98.36-99.36	1.0	0.099	0.58	
99.36-100.36	1.0	0.093	0.71	
100.36-101.36	1.0	0.125	0.81	
101.36-102.36	1.0	0.093	0.63	
102.36-103.36	1.0	0.063	0.47	
103.36-104.36	1.0	0.069	0.36	
104.36-105.57	1.21	0.046	0.36	
AVG.				
93.36-105.57	12.21	0.078	0.50	
119.80-120.50	0.7	0.099	0.49	
120.50-121.50	1.0	0.037	0.19	
121.50-122.50	1.0	0.007	0.12	
122.50-123.50	1.0	0.011	0.14	
123.50-124.50	1.0	0.041	0.37	
124.50-125.50	1.0	0.065	0.36	
125.50-126.50	1.0	0.168	0.54	
126.50-127.50	1.0	0.071	0.36	
127.50-128.60	1.1	0.018	0.19	
128.60-129.60	1.0	0.052	0.27	
129.60-130.60	1.0	0.031	0.21	
130.60-131.60	1.0	0.020	0.12	
131.60-132.69	1.09	0.036	0.31	
132.69-134.00	1.31	0.047	0.66	
134.0 -135.00	1.0	0.031	0.48	
135.0 -136.00	1.0	0.032	0.46	
AVG.				
119.80-136.00	16.20	0.047	0.33	

DDH #87-A-4

Length 229.52 metres

Azimuth 234 degrees

Inclination -70 degrees

INTERVAL	LENGTH M.	ASSAY DATA Au. oz./T	Ag. oz./T.	Cu%
128.10-129.10	1.0	0.013	0.22	
129.10-130.10	1.0	0.006	0.36	
130.10-131.10	1.0	0.035	0.35	
131.10-132.10	1.0	0.018	0.25	
132.10-133.10	1.0	0.059	0.30	
133.10-134.10	1.0	0.003	0.24	

DDH #87-A-5

Length 161.24 metres

Azimuth 281 degrees

Inclination -60 degrees

INTERVAL	LENGTH M.	ASSAY DATA Au.oz./T.	Ag. oz./T.	Cu%
96.0-97.0	1.0	0.004	0.07	
97.0-98.0	1.0	0.023	0.22	
98.0-99.0	1.0	0.070	0.53	
also				
130.0-131.0	1.0	0.002	0.66	
131.0-132.0	1.0	0.001	0.32	
132.0-133.0	1.0	0.379	7.175	
133.0-134.0	1.0	0.001	0.04	

The 1987 diamond drill program tested only a very small section of the anomalous limestone intrusive contact area, approximately 100 metres in length. Very positive results were obtained in this program. Drill hole 87-A-3 contained a 12.21 metre section which averaged 0.078 Au. oz./T. and 0.50 Ag. oz./T., and 16.20 metres averaging 0.047 Au. oz./T. and 0.33 Ag. oz./T. The highest grade section was obtained in drill hole 87-A-5 where a 1.0 metre interval assayed 0.379 Au. oz./T. - 7.175 Ag. oz./T.

Further drilling is required to properly explore this area and other anomalous zones as outlined in the report.

7.0 GEOLOGY

7.1 REGIONAL GEOLOGY

The regional geology of the area of the Tanuta Ventures Corp. property is shown on Plan No. 3 included in Appendix D. as referenced from "Geology of the Toodoggone River Area N.T.S. 94 E., L.J. Daikow, A. Panteleyev, an T.G. Schroeter, 1986."

The property is referenced in Paper 1989-3 Mineral Resources Division, Province of British Columbia, "Precious Metal Enriched Skarns in British Columbia" by A.D. Ettlinger and G.E. Ray, as number 52 within the Intermontane Belt as Acapulco (Aca, Pul, Co, Amigo, Star, Sun). As described the host rocks consist of Permian Asitka Group or Triassic Takla Group-Limestone with Early Jurassic Omineca intrusion - quartz monzonite-hornblend, pyroxene gabbro. Mineralization consists of gold, silver, copper, lead and zinc occurring in skarn at the contact of limestone with quartz monzonite, with subvertical fractures being the possible fluid mineralization path.

7.2 LOCAL GEOLOGY

The claims are underlain by Permian Asitka Group limestone, marble and skarn, and Lower Jurassic Omineca Intrusive rocks.

The Asitka Group outcropping along the ridge in the middle of the claim group consists of recrystallized limestone and marble with minor interbeds of feldspar porphyritic andesite. Limestone beds are mapped on the Skarn Claim immediately upslope of Drybrough Creek near the easterly end of line 120N. Along the ridge in the middle of the claim block limestone units strike NW-SE with moderate dips of about 30 degrees to the east.

Omineca intrusive rocks consisting of coarse textured quartz diorite to quartz monzonite underlie the Asitka limestone.

Mineralized skarn zones formed by contact metasomatism are present at the contact of the intrusive rocks and the limestone.

As described by Vulimiri, M.R. and Crooker, G.F., Oct. 1985, " *Skarns are exposed at the contact of the limestone with the intrusions all around the ridge at lower elevations on the claim group (Figure 3). Minor skarns along with some quartz dioritic and quartz monzonitic intrusions and lamprophyre dykes are also observed on top of the ridge suggesting the intrusion has an undulating contact with apophyses and embayments (Figure 4).*

The skarns appear to be related to predominantly 160/170/E fractures. The chalcedony fracture fillings (possibly excess silica left over during the skarn-forming reactions) also are related to the same fractures. Tracing of these fractures will possibly lead to skarns hidden within the embayments of the intrusion. Minor skarn also occur along the bedding planes of the limestone unit.

The skarns primarily consist of magnetite, diopside, grossular garnet and epidote near the intrusion and away from the intrusion they consist of diopside, epidote, wollastonite with minor garnet.'

The intrusion exhibits extensive hydrothermal alteration in the vicinity of the skarns. It is completely bleached of Mafic minerals with intense K-Feldspar alteration and quartz veining. Where exposed, tracing of the alteration zones within the intrusion towards the carbonates lead to skarns.

MINERALIZATION

Three types of mineralization are present on the claim group. They are the following:

1.Mineralization consisting of chalcopyrite, bornite, malachite, pyrite, pyrrhotite, magnetite, minor galena and sphalerite with gold values is associated with skarn zones. Grab samples from this type of mineralization are assayed for gold and silver. Assays are shown in the table below.

Sample	Ag.oz./ton	Au.oz./ton	Location	Mineralogy
25446	32.0	0.50	7+00E;1+30S	Skarn (Cpy. & Mal.)
25447	0.1	L0.01	Hand Trench-2	Skarn (Magnetite)
25448	1.8	0.78	Hand Trench-2	Skarn (Mag.,Cpy. & Mal.)
25449	0.5	0.75	Hand Trench-2	Skarn (Mag.,Cpy. & Mal.)
25450	0.8	0.21	Hand Trench-2	Skarn (Malachite.)

2.The second type of mineralization consists primarily of galena with minor sphalerite in narrow veinlets in limestone. This does not appear to have much potential. Several samples were assayed for silver and gold in 1982.

3.Chalcopyrite and molybdenum mineralization with associated K-feldspar alteration occurs in the quartz monzonitic phase of the intrusion."

Photo #16 is an interpretation of the geology of the property for the eastern half, as viewed from the area of the L.C.P. of the Pul claim looking westerly.

BRITISH COLUMBIA

UNIVERSITY OF

LEGEND

PLEISTOCENE AND RECENT

UNCONSOLIDATED GLACIAL, FLUVIOGLACIAL, ALLUVIAL, AND COLLUVIAL DEPOSITS

CRETACEOUS

UPPER CRETACEOUS

SUSTUT GROUP *(TANGO CREEK FORMATION)*

POLYMICTIC CONGLOMERATE, SANDSTONE, SHALE, CARBONACEOUS MUDSTONE

JURASSIC

LOWER AND (?) MIDDLE JURASSIC

"TODDOGGONE VOLCANICS" – (?) HAZELTON GROUP

UNDIVIDED, PREDOMINANTLY GREY, GREEN, PURPLE AND ORANGE-BROWN HORNBLENDE PLAGIOCLASE AND PLAGIOCLASE PHYRIC ANDESITE PORPHYRY FLOWS, TUFFS, BRECCIA, SOME LAHAR, CONGLOMERATE, GREYWACKE, SILTSTONE, RARE RHYOLITE-PERLITE. INCLUDES SOME DYKES AND SILLS

LOWER TO MIDDLE JURASSIC

"TODDOGGONE VOLCANICS" (CARTER, 1972)

"GREY DACITE"

8 DARK TO PALE GREY OR GREEN QUARTZOSE BIOTITE HORNBLENDE PLAGIOCLASE ASH FLOWS OF ANDESITIC AND RARELY DACITIC COMPOSITION. VARIABLY WELDED WITH LOCALLY WELL-DEVELOPED COMPACTION LAYERING. CONTAINS ABUNDANT GREY DACITE AND RARE GRANITIC CLASTS. OUTCROPS ARE COMMONLY BLOCKY AND STRONGLY JOINTED — 182 ± 8, 183 ± 8 Ma (GSC) HORNBLENDE

8A POLYMICTIC CONGLOMERATE WITH ABUNDANT TAKLA AND GREY DACITE CLASTS IN A QUARTZOSE SANDSTONE MATRIX

8B GREYWACKE, CONGLOMERATE DERIVED ENTIRELY FROM GREY DACITE

TODDOGGONE CRYSTAL ASH TUFFS AND FLOWS

7 RECESSIVE, GREY, MAUVE, PURPLE QUARTZOSE PLAGIOCLASE CRYSTAL TUFF, LAPILLI TUFF, AND BRECCIA, WITH LESSER AGGLOMERATE, LAHAR, AND EPICLASTIC BEDS; INCLUDES SOME WELDED TUFFS AND PYROXENE HORNBLENDE FELDSPAR PORPHYRY FLOWS WHICH ARE LOCALLY DOMINANT. SOME MEMBERS CONTAIN NO QUARTZ. PINK WEATHERING WHERE LAUMONTITE IS ABUNDANT — 189 ± 6 Ma HORNBLENDE

7A *EPICLASTIC RED BEDS* — ARKOSIC SANDSTONE, SILTSTONE, CONGLOMERATE, AND SLIDE DEBRIS; CONTAINS SOME CRYSTAL TUFF

TUFF PEAK FORMATION

6 PALE PURPLE, GREY, AND GREEN BIOTITE AUGITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS; SOME AUTOBRECCIATED FLOWS, MINOR SILLS AND PLUGS. SOME CRYSTAL AND LAPILLI TUFF — 197 ± 7 Ma BIOTITE, 200 ± 7 Ma HORNBLENDE

6A CONGLOMERATE OR LAHAR DERIVED FROM UNITS 6 AND 6B, WITH GRADED AND CROSSLAMINATED MUDSTONE AND SANDSTONE INTERBEDS; DEBRIS FLOWS, LAPILLI AND CRYSTAL TUFFS

6B FLOWS SIMILAR TO UNIT 6 BUT CONTAINING SPARSE ORTHOCLASE MEGACRYSTS

McCLAIR CREEK FORMATION

PURPLE, LAVENDER, GREY, BARRY, GREY-GREEN, CRIMSON, FINE- TO MEDIUM-GRAINED PLAGIOCLASE PORPHYRITIC FLOWS; INCLUDES SOME LAPILLI TUFF, BRECCIA, AND MINOR EPICLASTIC BEDS

INTRUSIVE DOME WITH AUTOBRECCIATED CARAPACE AND FLANKING BRECCIA

MAFIC FLOW AND TUFF UNIT

4 *BASALT FLOWS*—THIN BEDDED, PURPLE TO DARK GREEN, COMMONLY EPIDOTIZED, FINE-GRAINED PYROXENE BASALT FLOWS AND TUFFS; INCLUDES SOME SILLS AND DYKES

4A PURPLE TO MAUVE, MEDIUM-GRAINED PORPHYRITIC BASALT; LOCALLY MAUVE TO PINK, ZEOLITIZED WITH LAUMONTITE, POSSIBLE INTRUSIVE (LACCOLITH)

4B LAPILLI, CRYSTAL, AND ASH TUFF; WELL BEDDED. INCLUDES MINOR THINLY BEDDED SANDSTONE AND RARE CALCAREOUS SILTSTONE (MARL); TOTALLY OR IN PART EQUIVALENT TO UNIT 7

4C PYROXENE BIOTITE HORNBLENDE PORPHYRY FLOWS WITH TRACES OF QUARTZ AND K-FELDSPAR; INTERBEDDED MINOR BRECCIA AND LAPILLI TUFF; TOTALLY OR IN PART EQUIVALENT TO UNIT 6

LOWER JURASSIC (CONTINUED)

"TOPLEY VOLCANICS" (CARTER, 1972) (CONTINUED)

LAWYERS–METAMIAN QUARTZOSE ANDESITE

3 GREEN TO GREY QUARTZOSE PYROXENE (?) BIOTITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS AND TUFFS. QUARTZ CONTENT RANGES FROM NEGLIGIBLE TO ABOUT 3 PER CENT. IN THE NORTH FLOWS PREDOMINATE WITH LOCAL FLOW BRECCIA. LAPILLI TUFF AND RARE WELDED TUFF UNITS; TOWARD THE SOUTH ASH FLOWS ARE COMMON, INCLUDING RARE SURGE DEPOSITS. THE UNIT CONTAINS EXTENSIVE ZONES OF EPIDOTIZED, PYRITIC ROCK WITH CHARACTERISTIC SALMON, PINK, AND ORANGE PLAGIOCLASE CRYSTALS — 188 ± 8 Ma HYDROTHERMAL ADULARIA

MOYEI CREEK VOLCANICLASTICS

2 CONGLOMERATE WITH SOME GRANITIC CLASTS, GRADED, CROSS-BEDDED GREYWACKE, WELL-BEDDED CRYSTAL TUFF, EPICLASTIC SEDIMENTS. LOCAL LAMINATED CALCAREOUS SILT (MARL). RARE THIN LIMESTONE AND CHERT. LOCAL COARSE LANDSLIDE DEBRIS AND LAHAR. IN PART OR TOTALLY EQUIVALENT TO UNIT 6A

2A CRYSTAL TUFFS IN THIN, WELL-LAYERED UNITS; SOME EPICLASTIC SANDSTONE AND SILTSTONE; RARE PLANT FRAGMENTS IN SOME BEDS; MINOR LAPILLI TUFF

ADOOGGATCHO CREEK FORMATION

1 PALE REDDISH GREY TO DARK RED-BROWN QUARTZOSE BIOTITE HORNBLENDE PHYRIC ASH FLOWS; THE ROCKS CONTAIN MINOR SANIDINE AND RARE AUGITE. WELDING IS WIDESPREAD AND RANGES FROM INCIPIENT TO EUTAXITIC. LOCALLY ORANGE TO BROWN VITROPHYRIC CLASTS ARE COMMON. INCLUDES LAPILLI TUFF AND BRECCIA UNITS AS WELL AS MINOR LAYERED GROUND SURGE DEPOSITS — 199 ± 7, 202 ± 7 Ma BIOTITE; 200 ± 7 Ma HORNBLENDE; 190 ± 7 Ma HYDROTHERMAL ALUNITE (WHOLE ROCK); 204 ± 7 Ma BIOTITE

1A CRYSTAL ASH TUFF, LAPILLI TUFF, AND RARE AGGLOMERATE WITH INTERSPERSED EPICLASTIC BEDS, TUFFACEOUS SEDIMENTS AND MINOR CONGLOMERATE THAT LOCALLY CONTAINS GRANITIC CLASTS. MINOR HORNBLENDE PLAGIOCLASE PHYRIC FLOWS FORMING SINGLE OR THIN COMPOSITE FLOW UNITS

QUARTZOSE PLAGIOCLASE PORPHYRY— JOINTED, DOMAL INTRUSION (?) OF HOMOGENOUS-APPEARING GREY TO GREEN, CHLORITIZED AND EPIDOTE-ALTERED ROCK CONTAINING ABUNDANT INCLUSIONS OF TAKLA VOLCANICS AND RARE METAMORPHIC ROCK CLASTS

TRIASSIC

UPPER TRIASSIC

TAKLA GROUP

DARK GREEN AUGITE PORPHYRY BASALT FLOWS AND BRECCIAS WITH LESSER FINE-GRAINED ANDESITE TO BASALT FLOWS AND MINOR INTERBEDDED SILTSTONE, TUFFACEOUS SEDIMENTS, AND CHERT. CONTAINS LIMESTONE LENSES THAT MAY BE PART OF THE "ASITKA GROUP"

PALEOZOIC

PERMIAN

P ASITKA GROUP?

PREDOMINANTLY LIMESTONE (INCLUDING MARBLE AND MINOR SKARN) WITH SOME ARGILLITE, BLACK SHALE, AND CHERT. UNITS COMPOSED OF LIMESTONE, CHERT, ARGILLITE, AND BASALT (Pv, c) MAY BE, IN PART OR TOTALLY TAKLA GRO...

INTRUSIVE ROCKS

JURASSIC

LOWER JURASSIC (DYKES, SILLS, AND SMALL PLUGS)

BASALT

AUGITE HORNBLENDE PORPHYRY — BASALTIC STOCK, DOMAL INTRUSION (C... TAKLA INLIER) — 210 ± 8 Ma HORNBLENDE

BIOTITE HORNBLENDE DIORITE/GABBRO

PYROXENE PLAGIOCLASE PORPHYRY

LOWER TO MIDDLE JURASSIC (DYKES AND STOCKS)

2 QUARTZ MONZONITE, GRANODIORITE—MEGACRYSTIC IN PART; MINOR SYENITE OR QUARTZOSE SYENITE ALONG CONTACTS

1 GRANODIORITE, QUARTZ DIORITE — MEDIUM GRAINED, PORPHYRITIC, FOLIATED IN PART

FELDSPAR PORPHYRY, HORNBLENDE FELDSPAR PORPHYRY — DYKES AND PLUGS; RARE QUARTZ FELDSPAR PORPHYRY

SYMBOLS

MINERAL OCCURRENCE (MINERAL INVENTORY FILE NUMBER) ... x 43

MINERAL PROSPECT (MINERAL INVENTORY FILE NUMBER) ... ⚒ 34

EXPLORATION CAMP ... ⊖

PLACER WORKINGS ...

PARK BOUNDARY ...

ROAD ...

MAIN OUTCROP AREAS ...

FAULT (OBSERVED, INFERRED) ...

THRUST OR REVERSE FAULT (OBSERVED, INFERRED) ...

GEOLOGIC CONTACT (DEFINED, ASSUMED) ...

BEDDING, LAYERING, FOLIATION (HORIZONTAL, INCLINED, VERTICAL) ... + 10 / ✓

FOLD AXES ...

FOSSIL LOCALITY (PLANT DEBRIS) ... Ⓕ

RADIOMETRIC DATE SAMPLE SITE, AGE IN Ma ... Ⓐ104

VOLCANIC VENT ...

HYDROTHERMAL ALTERATION

FERRICRETE, QUATERNARY FERRUGINOUS BRECCIA ... (iv)

SILICA, CLAY MINERALS ± ALUNITE, BARITE ... (iii)

CLAY MINERALS ± ALUNITE, SILICA, HEMATITE ... (ii)

GOSSAN, LIMONITIC ZONE ... (i)

MINERAL INVENTORY NUMBER NTS 94E	PROPERTY	MINERALS
1	McCLAIR CREEK	Placer Au
2	FIRESTEEL (CALCINE, BREN)	sp, gn, tet
3	RIGA	cp, mo, bo
6	GARNET	cp, bo, gn
7	SPARTAN	cp
8	PILLAR	cp
12	CAIRN 1–4	cp, sp, ro, gn
[illegible]	[illegible]	[illegible]
16	PINE (FIN)	cp, py, mag, mo
19	CHUCK, CHETA	bo, cp, cc
20	HARMON	cp
21	KEMESS	[illegible] y, cp, mo, q, sc
22	ATTYCELLEY (KEM)	gn, sp, cp, ba
23	ED	cp
24	PILL	cp
25	RAT	cp
26	CHAPPELLE (BAKER MINE)	Ag, ac, el, cp, py, gn, sp
27	CASTLE MOUNTAIN	sp, gn, cp, mag
28	XENOS	cp
29	THEBAN	cp
31	WAS	cp, sp, gn, ba
32	PIT	cp, ca, Au, Ag, gn, sp, py
36	EHL	bo
37	SAUNDERS	cp, sp, mo
39	XMAS	cp, bo
40	SOM	cp
42	BLACK	cp, sp
43	FRED	cp, gn, py
46	CLAW	cp, ar, py, gn, sp, ba
48	VIP	cp, mo, sp, py
50	SHAS	ar, Ag, py, sp, gn, cp, el, tet
51	GORD	gn, sp, cp
53	HAR	sp, gn, cp, ba
54	JIMO	cc
57	MEX	mo, cp
58	AMIGO	gn, cp, bo, sp, hem, ro
59	STONE	cp, gn
62	GOAT	cp
64	METSANTAN	py, ba, sc, gn, sp, cp, Am
65	JD VEIN (McCLAIR)	gn, sp, ac, py, cp, Am, hem, ba, ca?
66	LAWYERS	Am, Ag, el, Au, ac, cp, py, gn, cs
67	CLIFF CREEK	Am, ac, py, cp
68	KODAH	q, py, cp
69	SILVER POND	py, q, at, ba, hem
70	MESS	py, ba
71	NORTH QUARTZ	py, gn, sp, cp
72	PAU	py, gn
73	MARMOT LAKE	py, cp, gn, sp
74	DUKE'S RIDGE	py, ar
75	CLOUD CREEK	py, Am, sc
76	GOLDEN STRANGER	py, Am
77	GOLDEN LION	py, gn, sp, cp, ba, hem, ca, sc, ac, Ag, cs, cov
78	RIDGE	q, at, sc, gn, py, hem, ba
79	BONANZA — VERRENASS	at, py, gn, tet, cc, sp, cp, hem, Au, ba
80	GOLDEN FURLONG	q, at, hem, Au, py, cp
81	AWESOME	Am, py
82	WRICH	py, hem, ba
83	ARG	Cu, bo, cc, py
84	PORPHYRY PEARL	mag, ah, gn, sp, cp, py, mo
85	ALBERTS HUMP	at, py
86	MOOSEHORN	Am, py
87	MOUNT GRAVES	py, gn, sp, cp, ba
88	NUB	py, cp, gn, sp
89	SUN	py, cp, gn, sp, q
90	DAR	cp, gn, sp
91	BV — THESIS II AND III	Au, ba, q, Qbx, hem

8.0 EXPLORATION 1997

8.1 SURVEY GRID

A survey grid was established over the Tanuta Ventures Corp. property with a central base line bearing N 45 degrees W. for 3000 metres, two tie lines at 90+00E. and 110+00E., respectively, and 58,300 metres of grid lines. Survey stations were established at 50 metre intervals along the lines. Some lines along the eastern side of the grid were not completed because of scarps and talus terrain. A total of 67.3 kilometres of grid, base line and tie lines was established.

8.2 GEOCHEMICAL SOIL SURVEY

Soil samples were collected over accessible areas of the established survey grid. A total of 864 samples were collected at 50 metre spacing along the survey lines. Generally B-horizon material was collected, placed in Kraft paper bags and delivered to Min-En Laboratories in Smithers for sample preparation. Where B-horizon material was not available or poorly developed the top of the C-horizon was taken or the A-horizon in swampy areas.

Analysis was undertaken in Vancouver using ICP-9 element method for soil samples with gold being done Au wet. Analysis were completed for Ag,As,Co,Cu,Ni,Pb,Sb,Zn and Mo. Assay data has been calculated to determine anomalous parameters with results being contoured on Plans No.7-No.10 inclusive, at a scale of 1:5000.

Anomalous parameters are as follows:

ELEMENT	MEAN	BACKGROUND	ANOMALOUS
Gold	17 PPb	35 PPb	70 PPb
Copper	44 PPm	88 PPm	175 PPm
Molybdenum	2.9 PPm	5.8 PPm	11.6 PPm
Lead	75 PPm	150 PPm	300 PPm
Zinc	300 PPm	600 PPm	1200 PPm
Arsenic	18 PPm	36 PPm	72 PPm
Silver			Greater 2.0 PPm

Soil geochemical plans and assay data are included in Appendix D. of the report.

The results of the soil geochemical survey for gold indicates that the limestone-intrusive contact zone is strongly anomalous with highly positive response forming an oval halo around the height of land defined by the Asitka limestone unit.

An anomalous silver zone greater than two ppm corresponds roughly with the indicated gold soil anomalies. Arsenic response in part does correspond to silver anomalies.

Copper anomalies are not as pronounced as the gold anomalies but also indicate that the contact zone of the limestone/intrusion is an important area for further work. Molybdenum values contoured at greater than 5ppm correspond to copper anomalies in the north central part of the grid. Significant areas of anomalous molybdenum response are shown in the southwest and southeast parts of the survey grid.

Coincident lead/zinc anomalies are found corresponding to the oval halo as indicated for gold response. The most significant values obtained are in the area of the old "Cominco Showings" between lines 94N to 98N with a high of 6192 ppm Pb and 6397 ppm Zn.

8.3 ROCK SAMPLING

Thirty-two grab type rock samples were collected of mineralized outcrops over the property. Analysis was undertaken using I.C.P. methods for eight elements, Ag,As,Co,Cu,Ni,Pb,Sb,Zn and gold fire assay gravimetric finish. Sample and assay data is as follows with assay sheets included in Appendix D.

SAMPLE NO.	DESCRIPTION	ASSAY DATA				
		Au.g/T	Ag.g/T	Cu%	Pb%	Zn%
S971A	Magnetite, Hematite Skarn,Cu,Py	0.05	14.7			
S971B	Skarn,Epidote,Rich Cu	0.50	21.4	3.37		
S972	Massive Cu	6.09	192.0	25.6		
S973	40 metres N.of S971 A & B	0.20	7.6			
S974A	L94+75N-102+75E Magnetite,Cu,Pb,Zn Sub outcrop in Talus	0.08	63.1			
S974B	Malachite,Pb,Zn skarn	0.02	23.6			2.14
S975	Qtz.,Magnetite,Cu	9.80	181.0	18.2		
S976	Skarn,Cu	1.29	10.3			
S977	Syenite,K.Feldspar Cu on fracture faces Malacite/Azurite	0.33	2.9			
S978	Cu massive qtz.	29.08	166.0	16.75		
S979	Sediment silicified	0.38	7.2			
S9712	Skarn,Cu	0.95	10.1			
S9714	L94+75N,102+75E Sub outcrop, Skarn Pb/Zn,Cu	0.06	53.8	2.78		4.75
S9715	Skarn Zn	0.04	18.9			10.80
S9716	Skarn,Py,Cu L94+75N,102+75E	0.43	129.0	3.95		
S9717	L94+75N,102+75E Same as 14,15,16,18	0.06	122.0	4.410		6.70
S9718	as above	0.13	192.0	1.92		
S9719	L95+75N,102+65E Skarn,Epidote	15.62	45.1	1.21		
S9720	L94+75N,102+60E Cu,Magnetite float	0.36	169.0	1.46	1.49	1.83
S9721	Dike,Minor py	0.12	4.5			
59722	L93N,107+70E Talus float	0.16	12.5		2.08	2.27
S9723	Talus Float slabs large @97+00N, 102+50E	0.22	44.3			7.30

T/L	120N, 110E	0.01	2.1				
	Grab						
Location	93+40N,106+50E	0.07	38.6		1.210		
L94N-95N,102E		0.05	42.6				
L95N,94+00E		0.06	43.5			8.50	12.10
L95N,94+55E		0.15	278.0	1.040			
L98+10N,104+20E		3.33	41.8	1.760			
L98+50N,105+50E		0.02	4.4				
L100+50N,101+00E		0.05	35.2	1.400			
L100+75N,100+50E		0.18	42.9	1.690			
L100+80N,100+25E		7.86	275.0	4.570			

Rock sample locations are plotted on Plan No. 6, and shown on Photo pages for Photos #11 and #12.

8.4 MAGNETOMETER SURVEY

A magnetometer survey was completed over the established grid during August-September. Approximately 30.0 line kilometres were covered with readings being taken at 50 metre intervals along the lines, which were established at 100 metre spacing. A Scintrex MP-2 proton precision Magnetometer Serial No. 8208840 rented from T. Hasek Associates was used in the survey. The unit has an accuracy of +/- one gamma. The loop method was used to correct and monitor for diurnal variation during the survey. The results of the survey are presented in contour form on Plan #11 included in Appendix D.

The main magnetic trends appear to be related to the contact zones between the Asitka Group limestone and the Omineca intrusion where skarn type mineralization has developed. The strongest response is centred near the previous diamond drill hole locations and also south of the westerly flowing creek near the "Cominco Showings" along lines 93N-95N inclusive. The survey grid is to be extended.

8.5 V.L.F.-E.M. Survey

A V.L.F.-E.M. survey was undertaken over parts of the survey grid to confirm data obtained in work reported by S.E.R.E.M. in 1985. Approximately 13.0 line kilometres of survey was completed, utilizing a Phoenix V.L.F.-2 unit and the Seattle transmitter station. The V.L.F.-E.M. unit was rented from Pacific Geophysics Ltd.

Results of the survey are plotted on Plan #12 included on Appendix D. Conductive trends appear to correspond with results obtained in the 1985 work undertaken by S.E.R.E.M.

9.0 CONCLUSIONS AND RECOMMENDATIONS

The Acapulco Group of Tanuta Ventures Corp. consisting of forty-seven units covers a contact zone between Permian Asitka Group limestone, marble and skarn and Lower Jurassic Omineca intrusions. Extensive skarn mineralization containing copper, silver, lead, zinc and gold is found along the intrusive/limestone interface. The property is referenced in Paper 1989-3, "Precious Metal Enriched Skarns in British Columbia": as No. 52.

Exploration undertaken on the property by S.E.R.E.M. between 1980-1987 including silt and soil geochemistry, rock sampling, geology, magnetics, and a V.L.F.-E.M. survey, culminated with the completion of five B-Q size diamond drill holes for a total of 864.67 metres. Positive results of prime interest were obtained as follows: 0.053 Au oz/T., 2.73 Ag. oz/T., 2.67 % Cu for 1.0 metre in 87-A-1; 0.028 Au oz/T., 0.53 Ag. oz/T for 1.0 metre and 0.036 Au. oz/T. , 0.60 Ag oz/T for 1.0 metre in 87-A-2; 0.078 Au. oz./T., 0.50 Ag. oz./T. for 12.21 metres and 0.047 Au.oz/T/, 0.33 Ag. 0z./T. for 16.20 metres in 87-A-3; 0.035 Au. oz./T., 0.35 Ag. oz./T. for 1.0 metre and 0.059 Au.oz./T, 0.30 Ag.0z/T for 1.0 metre in 87-A-4; and 0.023 Au.oz./T., 0.22 Ag. oz./T. for 1.0 metre, 0.070 Au. oz./T., 0.53 Ag. oz./T. for 1.0 metre and 0.379 Au. oz./T. , 7.175 Ag. oz./T. for 1.0 metre in 87-A-5.

The results of the 1997 surveys undertaken by Tanuta Ventures Corp. are extremely encouraging indicating that the total area of the limestone/intrusive contact where skarn mineralization has developed requires follow-up exploration. Chalcedony fracture fillings within the limestone, minor skarns with quartz diorite and monzonite, and lamprophyre dikes observed at the height of land within the limestone could indicate an undulating contact zone.

Follow-up surveys will include detailed magnetics and V.L.F.-E.M. surveys where not previously completed, dozer and backhoe trenching along the limestone/intrusive/skarn contact to explore geochemical anomalies, rock sampling and further diamond drilling.

Drilling will initially be undertaken in the area previously drilled, on the Cominco Showing, and where coincident geochemistry and geophysical surveys are strongest.

A cost estimate of the proposed work is included in Appendix A.

APPENDIX A

SURVEY COST STATEMENT

ACAPULCO GROUP

STAR, PUL, SUN and SKARN CLAIMS

COST STATEMENT

PERIOD: July 15 - Sept. 1, 1997

Helicopter:	
Interior, Canadian,	$ 34,873.37
Other:	
Northern Lights	$ 712.19
Hotel, Motel	$ 487.33
Food, supplies	$ 1,098.02
Min En Laboratories	$ 15,758.60
Bk. Radio	$ 54.72
Pacific Geophysics , rental	$ 798.00
T. Hasek (Mag.), rental	$ 584.00
C.J.L. Enterprises, Field Work crews + costs, July, Aug., Sept.	$ 51,521.12
Maps, J. Winfield	$ 2,000.00
Professional Services:	
C.R. Poloni, Mag. Survey, Aug.25-Sept.6/97	$ 3,900.00
J. Mirko, July 28-30, Aug. 11-13/97	$ 3,582.03
J.R. Poloni, P. Eng., July 22-Nov.6/97 Field work, Engineering, Report	$ 20,250.00
TOTAL COST	$135,619.38

Respectfully Submitted,

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. R. POLONI

John R. Poloni, P. Eng.

APPENDIX B

REFERENCES

REFERENCES

1.0 Ettlinger, A.D. and Ray, G.E.
Mineral Resources Division B.C. Paper 1989-3.
Precious Metal Enriched Skarns in British Columbia.

2.0 Roscoe, W.E., 1983
Report on the Toodoggone Project of S.E.R.E.M. Ltd.

3.0 Caelles, J.C., 1978, Cominco Ltd.
Assessment Report, Geological Mapping and Soil Geochemical work on the Amigo Property, Toodoggone River Area, Omineca, M.D.

4.0 Vulimiri, M.R. and Crooker, G.F. , Oct. 1985.
Geological and Geophysical Report on the Pul, Sun, and Star Claim (Acapulco Group).

5.0 Crawford, S.A. and Vulimiri, M.R. Dec. 1980
Toodoggone Project, Geochemical and Prospecting Report on the Acapulco, Aca and Pul Claims.

6.0 S.E.R.E.M. Acapulco Diamond Drill Logs
DDH 87-A-1 to DDH 87-A-5.

7.0 Reeve, A.B., 1968, Geological Report on the Riga Claim Group, Toodoggone River Area for Quebec Cartier Mining Company.

APPENDIX C

CERTIFICATE

CERTIFICATE

I, John R. Poloni of #13-6380-121st Street, in the Municipality of Surrey, in the Province of British Columbia,

DO HEREBY CERTIFY THAT:

1. **I am a Consulting Geologist.**
2. **I am a graduate of McGill University of Montreal, Quebec, where I obtained a B.Sc. Degree in Geology in 1964.**
3. **I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia.**
4. **I have practised my profession since 1964.**
5. **I am a Member of the Canadian Institute of Mining and Metallurgy.**
6. **I have personally visited the Star, Pul, Sun and Skarn property.**
7. **I have no interest in the properties or securities of Tanuta Ventures Corp. nor do I expect to receive or acquire any.**
8. **I consent to the use of this Report by Tanuta Ventures Corp. in a submission to the Vancouver Stock Exchange, the Toronto Stock Exchange, and any other Regulatory Body, and to distribute all or parts of the Report to the shareholders or other interested parties provided that the meaning is not altered by partial quotes.**

Dated this 15th day of October, 1997

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. R. POLONI

John R. Poloni, B.Sc., P. Eng.

APPENDIX D

MAPS, ASSAY DATA, REFERENCE REPORTS

MAPS, ASSAY DATA, REPORTS

MAP		SCALE
Plan No. 2	Claim Map	1:50,000
Plan No. 3	Regional Geology	1:50,000
Plan.No. 4	Local Geology	1:5,000
Plan.No. 5	Cross Section	1:5,000
Plan No. 6	General Grid Compilation	1:5,000
Plan No. 7	Soil Geochemical Plan	
	Gold PPb	1:5,000
Plan No. 8	Soil Geochemical Plan	1:5,000
	Silver PPm, Arsenic PPm	
Plan No. 9	Soil Geochemical Plan	
	Copper PPm, Molybdenum PPm	1:5,000
Plan No. 10	Soil Geochemical Plan	
	Lead PPm, Zinc PPm	1:5,000
Plan No. 11	Magnetometer Survey 1997	1:5,000
Plan No. 12	V.L.F.-E.M. Survey 1997	1:5,000
Plan No. 13	V.L.F.-E.M. Survey 1985	
	S.E.R.E.M.	1:2,500
Plan No. 14	Magnetometer Survey 1987	
	S.E.R.E.M.	1:1,000
Plan No. 15	Magnetometer Survey 1982	
	S.E.R.E.M.	1:2,000
Plan No. 16	Diamond Drill Hole Section	
	87-A-1, 87-A-2	1:1000

Plan No. 17	Diamond Drill Hole Section	
	87-A-3, 87-A-4	1:1,000
Plan No. 18	Diamond Drill Hole Section	
	87-A-5	1:1,000

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Project: SKARN
Attn: John Poloni

Date: OCT-10-97

We hereby certify the following Assay of 8 ROCK samples submitted SEP-08-97 by Lorne Warren.

Sample Number	Au-fire g/tonne	Ag g/tonne	Cu %	Pb %	Zn %
L 94N-95N 102E	.05	42.6			
L 95N 94+00E	.06	43.5		8.50	12.10
L 95N 94+55E	.15	278.0	1.040		
L 98+10N 104+20E	3.33	41.8	1.760		
L 98+50N 105+50E	.02	4.4			
L 100+50N 101+00E	.05	35.2	1.400		
L 100+75N 100+50E	.18	42.9	1.690		
L 100+80N 100+25E	7.86	275.0	4.570		

Certified by _____

MIN-EN LABORATORIES

MINERAL
·ENVIRONMENTS
LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
8282 SHERBROOKE STREET
VANCOUVER, B.C., CANADA V5X 4E8
TELEPHONE (604) 327-3436
FAX (604) 327-3423

SMITHERS LAB:
3176 TATLOW ROAD
SMITHERS, B.C., CANADA V0J 2N0
TELEPHONE (604) 847-3004
FAX (604) 847-3005

Quality Assaying for over 25 Years

Assay Certificate

7S-0265-RA1

Company: **JOHN POLONI & ASSOC. LTD.**
Project: SKARN
Attn: John Poloni

Date: OCT-10-97

We hereby certify the following Assay of 24 ROCK samples submitted SEP-08-97 by Lorne Warren.

Sample Number	Au-fire g/tonne	Ag g/tonne	Cu %	Pb %	Zn %
S 971	.05	14.7			
S 971 B	.50	21.4	3.370		
S 972	6.09	192.0	25.600		
S 973	.20	7.6			
S 974	.08	63.1			
S 974 B	.02	23.6			2.14
S 975	9.80	181.0	18.200		
S 976	1.29	10.3			
S 977	.33	2.9			
S 978	* 29.08	166.0	16.750		
S 979	.38	7.2			
S 9712	.95	10.1			
S 9714	.06	53.8	2.780		4.75
S 9715	.04	18.9			10.80
S 9716	.43	129.0	3.950		
S 9717	.06	122.0	4.410		6.70
S 9718	.13	192.0	1.920		
S 9719	* 15.62	45.1	1.210		
S 9720	.36	169.0	1.460	1.49	1.83
S 9721	.12	4.5			
S 9722	.16	12.5		2.08	2.27
S 9723	.22	44.3			7.30
TL 120N 110E	.01	2.1			
93+40N 106+50E	.07	38.6	1.210		

*GRAVIMETRIC FINISH

Certified by _____

MIN-EN LABORATORIES

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0265-RI
DATE: 97/0
* * (ACT:I

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM
S 971	11.6	1	30	1906	65	88	7	332
S 971 B	19.2	255	51	>10000	20	230	60	4126
S 972	>200.0	82	215	>10000	53	133	341	8042
S 973	1.4	1	17	4921	6	1	20	165
S 974	56.3	115	49	9612	9	1862	35	2615
S 974 B	20.0	1	31	759	21	814	24	>10000
S 975	186.9	175	98	>10000	22	86	260	1275
S 976	4.1	1	97	5474	12	3	19	2055
S 977	2.6	1	19	9424	2	60	20	334
S 978	170.5	113	63	>10000	16	68	234	1020
S 979	7.1	174	8	4245	5	141	13	102
S 9712	4.2	13	5	1403	4	1	6	94
S 9714	47.9	1	66	>10000	34	1257	67	>10000
S 9715	15.0	1	53	3589	17	3271	49	>10000
S 9716	122.8	239	262	>10000	15	773	75	2310
S 9717	117.9	1	71	>10000	31	3384	101	>10000
S 9718	183.5	3	32	>10000	19	1925	46	5746
S 9719	39.7	74	6	>10000	9	59	46	644
S 9720	156.9	89	51	>10000	1	>10000	70	>10000
S 9721	2.9	1	12	268	12	285	10	229
S 9722	.1	1	6	445	86	>10000	55	>10000
S 9723	21.3	1	23	628	67	2406	42	>10000
TL 120N 110E	2.2	1	11	68	9	368	12	691
93+40N 106+50E	26.9	146	72	>10000	1	187	41	3063
L 94N-95N 102E	39.5	1	18	1644	14	725	25	2917
L 95N 94+00E	41.7	1	12	156	22	>10000	95	>10000
L 95N 94+55E	>200.0	475	15	>10000	31	4541	770	1223
L 98+10N 104+20E	39.8	38	20	>10000	1	283	35	609
L 98+50N 105+50E	2.6	63	5	243	1	125	15	128
L 100+50N 101+00E	34.5	1	44	>10000	72	654	15	1178
L 100+75N 100+50E	41.5	36	13	>10000	20	80	95	131
L 100+80N 100+25E	>200.0	991	20	>10000	17	71	1795	440

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0265-RJ1+2
DATE: 97/09/18
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM
L 92N 94+50E	.1	2	11	73	7	11	2	51
L 92N 95+00E	.1	1	8	14	8	10	1	43
L 94+75N 102+75E	>200.0	226	45	>10000	12	4325	8	3563
L 96N 96+00E	1.5	3	1	88	1	19	1	17
L 97N 99+50E	1.4	1	1	48	1	18	1	20
L 97N 100+00E	.8	4	1	14	1	10	1	91
L 97N 106+50E	.5	1	3	27	5	9	2	42
L 99N 93+00E	12.6	1	1	279	1	24	1	30
L 100N 102+50E	.1	4	1	5	2	16	1	30
L 100N 103+50E	.1	1	1	2	1	3	1	7
L 103N 93+00E	.1	2	7	7	6	6	3	75
L 103N 107+00E	.1	2	10	6	5	10	2	78
L 103N 109+00E	.1	1	8	27	5	8	2	162
L 103N 109+50E	.1	1	9	4	6	9	1	109
L 104N 91+00E	.1	3	11	13	5	7	1	63
L 104N 108+00E	.1	2	6	3	4	9	1	45
L 105N 97+00E	.1	21	16	141	35	5	2	60
L 105N 97+50E	.1	39	5	22	10	8	1	22
L 105N 98+50E	.1	5	1	4	5	9	1	31
L 105N 107+00E	.1	1	8	5	4	7	2	95
L 106N 93+00E	.1	55	19	38	39	10	3	91
L 107N 95+50E	.1	29	12	7	25	5	2	28
L 107N 107+00E	.1	1	14	8	14	12	1	144
L 107N 108+50E	.1	2	5	5	6	5	1	46
L 108N 100+00E	.1	58	11	32	23	1	3	24
L 109N 99+00E	.4	66	24	109	37	43	4	79
L 109N 100+00E	.1	1	24	47	11	11	2	79
L 110N 90+00E	.1	1	11	11	7	10	2	116
L 111N 102+00E	.1	3	4	4	3	9	2	60
L 111N 104+00E	.1	75	4	24	6	4	3	16
L 111N 104+50E	.1	2	1	1	1	3	1	10
L 112N 99+50E	.1	1	1	1	1	10	1	13
L 118N 108+00E	.1	4	32	64	63	9	4	166
L 120N 106+00E	.1	5	27	89	49	3	4	53

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0268-SJ1+2
DATE: 97/09/18
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 90N 90+00E	.1	8	11	24	15	32	1	302	5
L 90N 90+50E	.1	7	7	14	13	14	1	90	5
L 90N 91+00E	.1	7	8	24	13	14	1	110	5
L 90N 91+50E	1.1	5	6	12	4	66	3	613	10
L 90N 92+00E	.2	8	6	47	12	40	1	312	5
L 90N 92+50E	.1	5	6	38	6	8	2	100	5
L 90N 93+00E	.4	5	4	148	6	12	1	130	5
L 90N 93+50E	.4	2	4	21	4	6	1	83	5
L 90N 94+00E	.7	6	5	54	6	58	2	1429	30
L 90N 94+50E	.2	5	2	17	2	11	1	39	5
L 90N 95+00E	.4	5	6	33	12	25	1	108	5
L 90N 95+50E	.3	7	10	42	6	22	1	256	5
L 90N 96+00E	.2	9	12	77	6	79	2	93	20
L 90N 96+50E	.1	3	4	4	5	11	1	52	5
L 90N 97+00E	.1	9	5	7	9	18	2	130	5
L 90N 97+50E	.3	21	8	30	16	69	2	200	10
L 90N 98+00E	.2	6	5	10	8	14	2	67	5
L 90N 98+50E	.1	8	6	12	7	32	2	108	10
L 90N 99+00E	.1	9	7	21	10	18	2	107	5
L 90N 99+50E	.2	8	7	31	12	31	2	141	10
L 90N 100+00E	.2	7	8	89	11	32	1	82	10
L 90N 105+50E	.9	9	10	56	13	40	2	163	10
L 90N 106+00E	2.1	6	11	61	5	122	1	184	20
L 90N 106+50E	.8	7	10	41	10	50	1	155	10
L 90N 107+00E	.7	4	9	45	5	24	2	102	10
L 90N 107+50E	.3	4	10	29	7	16	3	89	5
L 90N 108+00E	.1	3	6	21	4	11	2	40	5
L 90N 108+50E	.1	3	9	21	5	20	2	49	5
L 90N 109+00E	.1	4	9	56	4	31	2	97	45
L 90N 109+50E	.1	5	7	14	6	20	2	56	5
L 90N 110+00E	.3	6	10	47	4	49	2	151	5
L 91N 90+00E	.3	8	7	43	19	42	1	267	5
L 91N 90+50E	.5	2	2	11	6	15	2	65	5
L 91N 91+00E	.1	5	6	24	11	19	2	135	5
L 91N 91+50E	.1	8	8	80	13	12	3	113	5
L 91N 92+00E	.1	6	6	52	10	18	2	157	5
L 91N 92+50E	.1	6	5	50	8	14	1	132	5
L 91N 93+00E	.2	4	7	52	8	27	2	183	5
L 91N 93+50E	.3	5	5	132	7	13	2	87	10
L 91N 94+00E	.1	5	4	39	8	15	1	74	5
L 91N 94+50E	.5	12	5	136	12	55	2	278	5
L 91N 95+00E	.1	3	6	13	8	18	2	92	5
L 91N 95+50E	1.1	6	4	62	12	39	2	157	5
L 91N 96+00E	.1	5	7	12	11	15	2	83	5
L 91N 96+50E	.1	8	5	9	8	20	2	99	5
L 91N 97+00E	.2	9	5	9	10	25	1	96	5
L 91N 97+50E	.1	6	6	13	11	18	2	97	5
L 91N 98+00E	.1	11	7	34	11	38	2	124	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0268-SJ3+4
DATE: 97/09/18
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 91N 98+50E	.1	20	9	47	22	56	2	318	5
L 91N 99+00E	.1	10	8	60	25	30	2	198	5
L 91N 99+50E	.1	8	8	26	19	28	2	171	5
L 91N 100+00E	.6	10	7	27	11	89	2	138	15
L 91N 105+50E	.5	9	11	68	16	47	2	214	5
L 91N 106+00E	.2	6	13	86	8	35	1	188	25
L 91N 106+50E	.1	6	11	38	13	19	2	99	5
L 91N 107+00E	.1	6	11	39	6	19	1	83	5
L 91N 107+50E	.1	7	9	24	6	22	2	48	5
L 91N 108+00E	.1	5	7	23	3	15	1	45	15
L 91N 108+50E	.1	3	6	17	3	16	1	39	10
L 91N 109+00E	.1	8	11	52	9	22	1	120	5
L 91N 109+50E	.6	4	6	10	7	15	1	80	5
L 91N 110+00E	.4	9	8	44	6	27	2	160	10
L 92N 90+00E	1.2	5	7	34	8	58	2	339	10
L 92N 90+50E	.1	22	8	23	14	15	3	159	5
L 92N 91+00E	.2	11	10	60	12	37	1	266	5
L 92N 91+50E	.4	13	9	73	12	25	1	265	5
L 92N 92+00E	.1	6	7	43	11	12	1	160	5
L 92N 92+50E	.1	9	6	27	11	12	2	81	5
L 92N 93+00E	.1	12	8	17	17	39	4	146	15
L 92N 94+00E	.1	6	7	34	9	30	3	174	5
L 92N 95+50E	.4	9	6	43	12	32	1	134	10
L 92N 96+00E	.1	8	6	6	8	14	1	85	5
L 92N 96+50E	.1	6	9	14	17	18	1	108	75
L 92N 97+00E	.1	8	7	16	21	16	1	104	10
L 92N 97+50E	.1	7	7	21	18	23	1	146	15
L 92N 98+00E	1.7	15	9	137	18	70	2	176	10
L 92N 98+50E	.1	11	11	31	17	50	2	154	10
L 92N 99+00E	.1	14	11	59	16	71	3	300	10
L 92N 99+50E	1.3	5	6	426	10	111	1	316	10
L 92N 100+00E	.6	9	8	69	12	51	2	118	5
L 92N 105+50E	.5	11	16	99	17	53	1	234	25
L 92N 106+00E	.3	7	12	26	16	36	1	107	20
L 92N 106+50E	.1	9	10	63	9	59	1	118	25
L 92N 107+00E	.2	5	7	21	4	17	2	34	5
L 92N 107+50E	.1	2	7	30	5	20	1	47	15
L 92N 108+00E	.2	1	5	5	3	13	1	24	5
L 92N 108+50E	.4	8	9	92	15	53	1	155	30
L 92N 109+00E	.1	4	9	21	6	23	1	98	20
L 92N 109+50E	.2	4	10	29	5	33	1	74	5
L 92N 110+00E	.3	5	8	20	9	38	1	143	40
L 93N 90+00E	.6	7	10	14	9	35	2	107	5
L 93N 90+50E	.1	3	5	8	5	24	1	64	5
L 93N 91+00E	.2	10	6	18	6	36	2	162	15
L 93N 91+50E	.1	7	6	18	10	20	1	126	10
L 93N 92+00E	.1	4	6	9	13	12	2	85	5
L 93N 92+50E	.3	2	4	14	7	16	1	256	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0268-SJ5+6+7
DATE: 97/09/18
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 93N 93+00E	.2	8	7	31	12	22	2	326	5
L 93N 93+50E	.2	28	6	21	11	106	3	309	5
L 93N 94+00E	.1	7	7	26	14	24	3	298	5
L 93N 94+50E	.8	9	8	76	10	35	2	185	5
L 93N 95+00E	.1	7	9	16	14	23	2	142	5
L 93N 95+50E	.1	9	6	29	12	60	2	297	10
L 93N 96+00E	.5	6	7	42	5	32	2	116	10
L 93N 96+50E	.7	5	5	17	3	42	3	134	5
L 93N 97+00E	.6	6	7	14	4	17	2	77	10
L 93N 97+50E	.2	10	9	56	6	38	2	121	15
L 93N 98+00E	.1	8	8	47	6	26	1	87	15
L 93N 98+50E	.1	5	5	14	6	17	1	75	10
L 93N 99+00E	.1	8	8	40	8	31	3	135	5
L 93N 99+50E	.1	4	11	42	9	17	2	104	10
L 93N 100+00E	.5	5	5	52	8	24	2	98	10
L 93N 101+00E	.2	9	10	85	13	107	2	293	30
L 93N 105+50E	.2	8	14	94	16	41	2	156	10
L 93N 106+00E	.1	10	9	32	9	36	2	106	35
L 93N 106+50E	.3	12	7	37	9	38	2	110	15
L 93N 107+00E	.2	6	6	21	7	46	1	106	15
L 93N 107+50E	1.1	6	14	67	9	98	3	310	5
L 93N 108+00E	.1	4	8	13	5	25	2	69	5
L 93N 108+50E	1.4	16	8	136	9	51	2	337	15
L 93N 109+50E	.4	5	8	43	7	24	2	108	20
L 93N 110+00E	.2	2	5	21	5	27	1	162	5
L 94N 90+00E	.1	10	6	15	9	19	1	108	25
L 94N 90+50E	.1	31	7	18	12	41	3	172	20
L 94N 91+00E	.3	3	4	14	7	105	3	445	285
L 94N 91+50E	.1	7	6	21	13	21	1	171	55
L 94N 92+00E	.4	5	5	16	8	35	2	476	200
L 94N 92+50E	.1	6	5	16	5	23	1	139	280
L 94N 93+00E	.3	4	6	114	7	21	1	98	10
L 94N 93+50E	.1	5	6	28	8	18	1	105	10
L 94N 94+00E	.4	5	7	19	10	73	1	328	5
L 94N 94+50E	1.6	8	7	32	11	361	3	2224	720
L 94N 95+00E	.3	15	8	19	11	89	3	572	10
L 94N 95+50E	.1	16	8	14	12	76	2	258	10
L 94N 96+00E	.4	16	7	25	6	45	3	162	10
L 94N 96+50E	.1	16	7	12	12	39	2	192	10
L 94N 97+00E	2.3	83	10	62	7	69	1	71	230
L 94N 97+50E	.3	44	8	26	12	109	4	216	10
L 94N 98+00E	.6	18	7	24	10	126	3	188	5
L 94N 98+50E	.5	18	8	25	10	82	1	232	10
L 94N 99+00E	.2	5	8	71	8	24	2	107	5
L 94N 99+50E	.1	11	9	69	12	31	2	163	5
L 94N 100+00E	.1	7	11	60	12	29	2	146	20
L 94N 100+50E	.5	23	6	40	12	108	2	285	75
L 94N 101+00E	.4	35	7	40	15	140	3	435	30
L 94N 101+50E	.2	7	6	19	6	25	1	82	15
L 94N 105+50E	.3	2	2	6	1	6	1	9	10
L 94N 106+00E	.3	5	5	9	5	14	1	21	10
L 94N 106+50E	.4	16	9	80	19	76	1	415	25
L 94N 107+00E	.1	4	5	11	6	30	1	71	10
L 94N 107+50E	.1	4	4	7	4	27	1	38	5
L 94N 108+00E	.4	3	6	15	6	37	1	125	10
L 94N 108+50E	.2	10	8	135	13	36	2	165	10
L 94N 109+00E	.1	1	8	9	6	25	1	84	5
L 94N 109+50E	.5	5	8	28	5	33	1	104	10
L 94N 110+00E	.1	3	7	12	10	21	1	155	5

COMP: JOHN POLONI & ASSCO. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0269-SJ1+2
DATE: 97/09/19
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 95N 90+00E	.3	7	8	130	20	26	1	163	5
L 95N 90+50E	.3	3	7	21	13	18	2	104	5
L 95N 91+00E	.3	5	9	19	9	20	4	129	5
L 95N 91+50E	.8	10	8	53	9	24	3	290	5
L 95N 92+00E	.4	144	9	60	23	39	3	512	10
L 95N 92+50E	.4	22	8	19	13	35	2	319	10
L 95N 93+00E	.6	89	24	89	33	145	3	261	15
L 95N 93+50E	.4	50	13	96	35	83	5	313	10
L 95N 94+00E	10.1	79	11	211	22	6192	7	6397	150
L 95N 94+50E	.8	58	9	57	21	319	3	1223	20
L 95N 95+00E	.2	27	9	34	17	95	4	261	25
L 95N 95+50E	.8	28	10	51	16	163	4	357	35
L 95N 96+00E	1.6	41	9	182	21	486	4	2144	35
L 95N 96+50E	.1	19	8	22	19	86	2	507	10
L 95N 97+00E	.4	43	11	45	22	99	3	651	25
L 95N 97+50E	.3	40	10	31	22	92	5	542	15
L 95N 98+00E	.2	12	8	21	15	46	2	215	10
L 95N 98+50E	1.6	39	12	56	27	225	4	663	15
L 95N 99+00E	8.2	29	10	109	22	352	3	733	320
L 95N 99+50E	.3	12	11	43	14	42	2	214	15
L 95N 100+00E	.5	29	13	55	15	128	5	245	30
L 95N 105+50E	.2	13	20	183	28	92	3	520	15
L 95N 106+00E	.1	5	3	8	4	8	1	21	5
L 95N 106+50E	.3	14	7	70	17	75	2	282	15
L 95N 107+00E	.1	4	3	6	4	18	2	35	5
L 95N 107+50E	.2	8	7	36	4	70	2	219	5
L 95N 108+00E	.1	10	8	83	10	42	2	435	5
L 95N 108+50E	.4	7	6	54	11	27	1	179	5
L 95N 109+00E	.3	5	7	20	5	22	2	81	10
L 95N 109+50E	.1	6	7	12	7	24	2	91	5
L 95N 110+00E	.1	5	9	47	11	37	2	955	40
L 96N 90+00E	.1	12	8	15	15	26	2	219	5
L 96N 90+50E	.1	4	4	13	8	15	1	49	10
L 96N 91+00E	.1	4	6	16	7	13	2	81	5
L 96N 91+50E	.4	43	9	74	9	48	3	460	5
L 96N 92+00E	.1	61	9	111	36	90	3	952	15
L 96N 92+50E	.7	58	8	101	28	79	2	958	20
L 96N 93+00E	.3	44	7	39	15	46	3	324	60
L 96N 93+50E	3.5	85	7	201	18	103	4	521	15
L 96N 94+00E	.3	49	7	22	16	100	3	370	5
L 96N 94+50E	.2	19	5	10	9	24	3	503	5
L 96N 95+00E	.2	34	10	26	23	114	4	266	10
L 96N 95+50E	1.6	58	10	65	30	244	2	1139	15
L 96N 96+50E	.8	61	14	30	35	408	4	1349	10
L 96N 97+00E	.1	48	12	32	36	232	5	846	10
L 96N 97+50E	2.9	187	12	487	28	332	6	3154	140
L 96N 98+00E	.8	93	10	40	33	84	4	988	25
L 96N 98+50E	2.3	50	13	70	43	116	4	874	20

COMP: JOHN POLONI & ASSCO. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0269-SJ3+4
DATE: 97/09/19
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 96N 99+00E	5.1	68	13	88	33	252	5	2023	40
L 96N 99+50E	4.2	53	10	157	25	345	3	3713	45
L 96N 100+00E	.9	43	12	70	21	385	5	814	260
L 96N 104+50E	.6	18	12	117	18	63	3	262	40
L 96N 105+00E	.1	11	8	13	6	51	2	181	5
L 96N 105+50E	.4	19	9	51	9	48	2	184	15
L 96N 106+00E	.1	12	11	47	11	57	3	181	25
L 96N 107+00E	.9	8	10	21	9	191	2	517	5
L 96N 108+00E	.1	7	9	11	7	56	2	137	10
L 96N 108+50E	.1	3	3	12	4	31	1	104	15
L 96N 109+00E	.4	4	7	19	8	23	2	113	5
L 96N 109+50E	.1	4	9	45	13	41	2	430	25
L 96N 110+00E	.1	7	11	37	19	54	2	358	5
L 97N 90+00E	.1	4	8	18	25	11	1	55	5
L 97N 90+50E	.1	20	9	41	27	18	2	115	5
L 97N 91+00E	.8	34	7	130	23	41	4	159	5
L 97N 91+50E	.4	51	7	250	22	27	4	256	5
L 97N 92+00E	.3	49	9	57	32	51	3	307	10
L 97N 92+50E	.7	105	9	229	26	173	3	1208	10
L 97N 93+00E	.8	24	3	370	13	56	1	434	10
L 97N 93+50E	.9	110	6	150	16	97	4	482	5
L 97N 94+00E	.5	66	6	28	20	190	4	660	5
L 97N 94+50E	1.1	83	6	246	16	213	5	1408	10
L 97N 95+00E	.8	49	12	36	24	367	2	1003	15
L 97N 95+50E	.3	42	8	16	15	141	3	521	10
L 97N 96+00E	1.1	30	9	41	22	252	1	571	10
L 97N 96+50E	2.2	60	11	26	25	201	2	808	10
L 97N 97+00E	1.6	56	11	63	37	219	3	729	35
L 97N 97+50E	1.0	18	4	22	10	125	1	1056	5
L 97N 104+00E	1.1	17	8	60	9	112	2	374	15
L 97N 104+50E	.9	23	10	118	16	97	2	380	65
L 97N 105+00E	.1	15	7	24	9	54	2	162	15
L 97N 105+50E	1.0	10	12	31	8	38	1	97	15
L 97N 106+00E	.2	5	4	29	5	33	1	76	20
L 97N 107+00E	.1	4	6	53	8	51	1	63	5
L 97N 107+50E	.5	8	11	189	9	149	1	867	15
L 97N 108+00E	.1	6	11	29	9	47	1	458	5
L 97N 108+50E	.2	8	7	108	10	50	1	776	10
L 97N 109+00E	.1	4	9	36	9	34	1	144	60
L 97N 109+50E	.3	2	5	8	7	27	1	118	10
L 97N 110+00E	.5	6	7	23	10	33	1	218	5
L 98N 90+00E	.1	6	9	28	31	12	2	68	5
L 98N 90+50E	.1	7	8	27	29	13	1	63	5
L 98N 91+00E	.2	23	8	46	27	17	2	112	10
L 98N 91+50E	.8	76	10	73	32	21	4	151	10
L 98N 92+00E	.6	47	9	47	35	97	3	799	10
L 98N 92+50E	.1	19	8	21	37	66	2	401	10
L 98N 94+00E	.2	202	8	22	16	166	6	669	20

COMP: JOHN POLONI & ASSCO. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0269-SJ5+6
DATE: 97/09/19
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-Wet PPB
L 98N 94+50E	.3	55	7	20	18	102	3	322	5
L 98N 95+00E	.1	38	6	18	15	127	1	438	10
L 98N 102+50E	.9	30	7	49	4	59	1	207	15
L 98N 103+00E	1.4	26	9	50	25	126	2	513	25
L 98N 103+50E	.3	12	7	82	20	68	2	381	5
L 98N 104+00E	.2	15	9	85	19	61	2	202	35
L 98N 107+00E	.6	2	4	13	6	21	1	60	10
L 98N 107+50E	.2	8	6	188	9	149	1	699	10
L 98N 108+00E	.8	5	5	82	5	84	1	289	5
L 98N 108+50E	.4	2	5	45	5	27	1	87	10
L 98N 109+50E	.2	4	8	33	11	28	1	151	20
L 98N 110+00E	.1	3	6	8	7	21	1	73	5
L 99N 90+00E	.2	17	7	31	18	13	2	104	5
L 99N 90+50E	.1	4	6	14	22	8	1	67	5
L 99N 91+00E	.2	8	13	27	32	26	1	229	5
L 99N 91+50E	.1	36	7	26	20	34	1	184	5
L 99N 92+00E	1.2	119	8	183	27	74	4	743	15
L 99N 93+50E	1.1	298	8	331	25	146	7	529	20
L 99N 94+00E	.1	127	5	10	17	54	4	220	30
L 99N 94+50E	.3	57	5	29	17	38	2	203	10
L 99N 95+00E	.1	91	5	15	17	36	6	205	5
L 99N 102+50E	2.0	65	8	139	16	198	5	854	60
L 99N 103+00E	1.4	32	10	124	23	146	4	580	75
L 99N 103+50E	.4	10	9	45	16	123	2	262	10
L 99N 107+00E	1.0	28	8	51	8	97	2	200	20
L 99N 107+50E	.1	1	4	2	3	22	1	20	5
L 99N 108+00E	.1	1	4	7	4	17	1	34	10
L 99N 109+00E	.2	2	7	20	12	24	1	164	5
L 99N 109+50E	.5	3	10	33	14	75	1	145	5
L 99N 110+00E	.1	2	4	9	5	25	1	43	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: JohN Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0270-SJ1+2
DATE: 97/09/19
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 100N 90+00E	.8	21	4	76	20	7	3	61	10
L 100N 90+50E	.5	31	10	176	35	15	4	95	10
L 100N 91+00E	.3	80	8	26	19	19	2	201	5
L 100N 91+50E	.6	81	8	95	26	36	3	230	10
L 100N 92+00E	.3	75	8	99	22	47	2	455	10
L 100N 92+50E	.1	38	9	25	20	171	3	681	5
L 100N 93+00E	.1	40	9	16	18	152	2	471	5
L 100N 94+00E	.1	45	6	19	25	191	2	475	50
L 100N 94+50E	.4	38	6	15	16	91	2	259	10
L 100N 95+00E	.4	54	5	20	19	58	3	315	5
L 100N 103+00E	.8	22	9	61	27	75	2	313	10
L 100N 106+00E	2.8	22	17	364	16	110	3	463	60
L 100N 106+50E	.9	11	10	80	8	101	1	184	5
L 100N 107+00E	.1	3	7	5	6	24	1	91	5
L 100N 107+50E	.4	8	7	22	13	37	1	172	5
L 100N 108+00E	.6	19	8	91	10	45	2	445	305
L 100N 108+50E	.6	18	10	61	11	47	2	290	5
L 100N 109+50E	.1	2	6	18	9	21	1	95	5
L 100N 110+00E	.2	3	6	46	8	42	1	74	5
L 101N 90+00E	.3	14	10	46	38	98	3	189	5
L 101N 90+50E	.1	5	6	14	22	9	1	73	5
L 101N 91+00E	.2	10	9	27	26	20	2	122	5
L 101N 91+50E	.6	59	11	40	33	234	3	992	10
L 101N 92+00E	2.4	71	12	69	35	260	4	1366	30
L 101N 92+50E	1.5	52	10	48	27	201	3	991	10
L 101N 93+00E	1.5	69	10	32	31	318	5	1013	25
L 101N 93+50E	1.7	67	10	64	31	209	3	962	20
L 101N 94+00E	1.5	57	9	55	28	257	2	1091	25
L 101N 94+50E	.4	67	11	38	36	209	2	822	10
L 101N 107+00E	.1	3	5	6	6	20	1	80	40
L 101N 107+50E	.1	3	5	1	4	20	1	37	5
L 101N 108+00E	.4	5	6	12	7	44	1	119	5
L 101N 108+50E	.5	5	9	68	9	83	1	327	20
L 101N 109+00E	.1	3	7	19	5	29	1	110	10
L 101N 109+50E	.1	5	7	16	11	37	1	125	5
L 102N 90+00E	.1	13	9	26	25	30	1	151	35
L 102N 90+50E	.6	50	7	29	25	127	3	607	10
L 102N 91+00E	.1	38	7	101	16	16	1	100	5
L 102N 91+50E	.1	19	7	38	15	21	1	132	5
L 102N 92+00E	.1	14	5	15	13	32	1	157	10
L 102N 92+50E	1.6	46	10	40	28	165	2	653	25
L 102N 93+50E	.1	62	7	26	23	134	3	635	5
L 102N 105+00E	.1	15	7	6	9	48	1	169	10
L 102N 105+50E	.3	15	7	11	11	45	1	177	20
L 102N 106+00E	.8	19	6	2	15	20	2	344	5
L 102N 106+50E	.3	10	6	6	8	67	1	109	5
L 102N 107+00E	.2	7	7	3	8	32	1	83	5
L 102N 108+00E	.1	64	6	79	6	44	1	406	10

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: JohN Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0270-SJ3+4
DATE: 97/09/19
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 102N 108+50E	.6	34	7	44	7	65	1	321	20
L 102N 109+00E	.2	6	7	27	6	41	1	143	10
L 102N 109+50E	.5	6	11	75	22	74	2	318	5
L 102N 110+00E	.1	5	7	10	11	25	2	120	5
L 103N 90+00E	.1	7	6	8	11	21	1	167	5
L 103N 90+50E	.1	10	7	10	14	23	2	149	5
L 103N 91+00E	.1	14	8	26	7	10	2	71	5
L 103N 91+50E	.1	19	7	43	9	21	1	95	5
L 103N 92+00E	.3	39	7	69	6	22	1	418	5
L 103N 92+50E	2.6	78	6	243	13	123	1	1825	35
L 103N 93+50E	.2	49	7	15	31	126	2	365	15
L 103N 94+00E	.1	43	9	20	29	143	2	627	50
L 103N 106+50E	.3	14	6	8	8	55	1	170	5
L 103N 108+00E	.3	6	8	11	11	62	1	168	5
L 103N 108+50E	.5	2	4	5	4	36	1	38	10
L 104N 90+00E	.1	12	7	15	13	20	2	118	10
L 104N 90+50E	.1	27	8	25	4	11	1	355	5
L 104N 91+50E	.1	6	7	13	6	15	1	84	5
L 104N 92+00E	4.1	54	8	61	16	113	3	952	30
L 104N 94+50E	.5	33	6	17	31	128	2	607	60
L 104N 95+00E	1.9	56	10	32	34	189	3	578	30
L 104N 106+50E	.1	8	7	12	7	39	2	129	5
L 104N 107+50E	.4	4	6	7	7	54	1	82	15
L 104N 108+50E	.3	5	5	10	13	62	1	89	5
L 104N 110+00E	.4	8	9	161	18	111	1	425	5
L 105N 90+00E	.1	3	5	18	6	8	2	62	5
L 105N 90+50E	.1	9	8	17	15	19	1	141	5
L 105N 91+00E	.1	2	9	3	6	16	1	50	5
L 105N 91+50E	.1	26	8	36	8	21	1	440	10
L 105N 92+00E	.4	38	12	49	19	122	2	1589	5
L 105N 92+50E	1.2	55	11	70	33	146	3	2039	45
L 105N 93+00E	.1	68	12	33	41	140	4	684	10
L 105N 93+50E	.1	54	8	13	23	205	3	537	5
L 105N 94+00E	.1	42	11	17	35	144	2	454	120
L 105N 94+50E	.2	49	9	12	25	306	3	787	25
L 105N 95+00E	.7	45	9	17	33	186	3	563	20
L 105N 95+50E	3.3	31	5	28	22	186	2	715	35
L 105N 96+00E	1.9	40	9	19	33	237	2	568	50
L 105N 96+50E	.6	83	7	27	25	154	2	424	10
L 105N 98+00E	.1	30	4	16	8	32	6	134	10
L 105N 99+00E	1.3	47	12	35	38	201	4	577	15
L 105N 99+50E	4.0	32	8	52	21	230	3	606	35
L 105N 100+00E	.9	104	9	38	39	126	2	757	10
L 105N 107+50E	.1	9	8	9	12	32	1	122	5
L 105N 108+00E	.2	10	12	35	18	156	1	186	5
L 105N 108+50E	.1	6	7	12	24	24	2	85	5
L 105N 110+00E	.3	5	5	16	19	15	1	106	5
L 105N 110+50E	.1	6	7	14	12	28	1	80	135

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: JohN Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0270-SJ5+6
DATE: 97/09/19
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 106N 90+00E	.1	2	4	6	8	8	1	47	5
L 106N 90+50E	.1	3	6	13	5	16	1	92	5
L 106N 91+00E	.1	12	9	18	12	25	1	137	5
L 106N 91+50E	.1	14	8	15	8	28	1	134	5
L 106N 92+00E	.1	24	9	30	10	28	2	160	5
L 106N 92+50E	.8	63	20	188	24	112	4	2080	160
L 106N 93+00E	2.3	121	12	98	33	149	4	585	20
L 106N 93+50E	.1	65	8	16	23	130	4	417	10
L 106N 94+00E	.1	74	13	16	27	204	4	625	20
L 106N 94+50E	.5	53	9	19	38	379	2	653	15
L 106N 95+00E	.2	51	9	21	35	204	3	502	15
L 107N 90+00E	.1	4	7	16	15	9	1	58	5
L 107N 90+50E	.2	3	2	9	5	9	1	35	5
L 107N 91+50E	.1	8	9	27	24	16	1	84	5
L 107N 92+50E	.1	12	7	24	7	21	2	226	25
L 107N 93+00E	.5	54	11	85	24	128	3	748	20
L 107N 93+50E	.6	66	10	27	30	322	3	689	20
L 107N 94+00E	.9	86	11	38	29	338	5	1278	10
L 107N 94+50E	.1	48	9	17	34	182	2	935	10
L 107N 95+00E	1.2	46	8	29	35	267	3	1056	25
L 107N 96+00E	.9	24	8	19	31	83	2	266	5
L 107N 107+50E	.1	8	5	13	16	24	1	73	5
L 107N 110+50E	.5	8	7	24	21	24	2	149	5
L 108N 90+00E	.1	4	10	19	17	12	2	98	5
L 108N 90+50E	.1	1	5	9	12	12	1	51	5
L 108N 91+00E	.1	1	3	20	3	6	1	26	5
L 108N 91+50E	.7	64	8	51	22	72	2	1048	10
L 108N 92+00E	1.1	58	9	55	24	120	2	1817	20
L 108N 92+50E	.1	6	4	12	14	8	1	79	5
L 108N 94+00E	1.0	49	9	33	39	192	3	613	110
L 108N 94+50E	.3	41	11	31	37	180	3	594	5
L 108N 95+00E	1.4	31	9	25	38	174	2	605	10
L 108N 95+50E	1.2	62	10	56	33	272	3	1016	145
L 108N 96+00E	1.6	39	8	23	33	146	1	398	5
L 108N 96+50E	1.1	43	8	22	33	180	3	554	10
L 108N 97+00E	2.2	34	9	26	37	208	2	789	10
L 108N 97+50E	6.4	71	9	34	26	334	3	679	15
L 108N 98+00E	7.6	60	9	41	20	287	2	621	15
L 108N 99+50E	115.0	163	20	138	37	2276	7	2747	245
L 108N 107+00E	.6	3	3	12	7	29	1	46	5
L 108N 107+50E	1.4	36	11	341	26	65	2	370	5
L 108N 108+00E	.8	21	8	149	29	46	2	112	5
L 108N 108+50E	.1	13	10	62	34	26	2	128	5
L 108N 109+00E	.1	4	8	18	34	10	2	73	5
L 108N 109+50E	.2	4	8	29	8	32	1	175	5
L 108N 110+50E	.1	2	4	10	12	15	1	62	5
L 108N 111+00E	.1	3	5	8	15	16	1	74	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0271-SJ1+2
DATE: 97/09/22
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 109N 90+00E	.1	5	7	19	16	9	1	56	5
L 109N 90+50E	.1	3	3	10	3	7	2	28	5
L 109N 91+00E	.1	4	9	18	10	6	1	56	5
L 109N 91+50E	.2	10	8	38	20	22	1	92	70
L 109N 92+00E	.6	17	8	58	20	54	2	213	5
L 109N 92+50E	.2	19	8	18	24	48	1	425	5
L 109N 93+00E	1.3	55	13	220	24	71	4	1248	205
L 109N 93+50E	1.5	28	7	29	25	97	2	285	20
L 109N 94+00E	4.4	57	9	39	29	275	3	653	20
L 109N 94+50E	3.1	33	8	27	28	175	2	420	10
L 109N 95+00E	4.6	60	11	33	30	547	2	1143	10
L 109N 95+50E	1.6	41	8	27	27	238	2	588	5
L 109N 96+00E	1.6	44	8	67	30	239	3	812	25
L 109N 97+50E	1.1	22	6	16	28	97	1	408	5
L 109N 98+00E	.8	24	8	19	28	89	2	468	230
L 109N 98+50E	1.2	25	7	40	29	212	2	1167	5
L 109N 105+00E	.1	13	3	5	3	26	1	40	5
L 109N 105+50E	.1	2	2	6	4	7	1	22	235
L 109N 106+00E	.3	9	6	26	13	47	2	144	20
L 109N 106+50E	.1	6	5	11	12	26	1	85	5
L 109N 107+00E	.1	7	7	22	17	78	1	118	15
L 109N 107+50E	3.2	7	6	15	18	25	1	73	5
L 109N 108+00E	.1	6	6	14	16	18	1	61	5
L 109N 108+50E	.1	12	10	55	31	28	2	130	45
L 109N 110+00E	2.1	4	6	67	18	25	2	185	15
L 109N 110+50E	.1	4	7	23	29	13	2	74	10
L 109N 111+00E	.2	7	6	14	17	20	1	83	10
L 110N 91+00E	.1	5	8	16	20	15	2	83	15
L 110N 91+50E	.3	4	7	9	12	16	2	59	5
L 110N 92+00E	.1	4	8	17	13	17	2	114	5
L 110N 92+50E	.7	16	7	43	20	39	2	141	20
L 110N 93+00E	.2	13	9	27	23	31	1	240	5
L 110N 93+50E	.1	15	8	24	29	37	2	265	40
L 110N 94+00E	.4	39	11	61	28	94	2	509	55
L 110N 94+50E	.9	25	8	33	37	85	2	321	15
L 110N 95+00E	.5	31	8	29	32	98	2	343	30
L 110N 95+50E	.6	30	8	25	34	122	2	344	25
L 110N 96+00E	.1	38	9	27	39	178	2	572	60
L 110N 96+50E	.3	37	10	33	41	219	3	599	30
L 110N 97+00E	1.2	19	6	28	27	83	1	216	15
L 110N 97+50E	5.3	35	9	61	28	592	2	1196	20
L 110N 98+00E	1.4	31	8	29	32	219	2	535	15
L 110N 98+50E	1.2	36	9	26	32	261	3	586	5
L 110N 100+00E	2.5	30	9	584	28	279	2	488	20
L 110N 105+00E	.5	15	8	15	10	98	1	185	5
L 110N 105+50E	.1	13	7	14	11	43	3	93	5
L 110N 106+00E	.2	8	7	22	19	26	1	84	75
L 110N 106+50E	.5	17	10	753	28	68	2	299	15

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0271-SJ3+4
DATE: 97/09/22
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 110N 107+00E	.2	4	5	15	26	14	1	57	5
L 110N 107+50E	.7	2	2	5	4	22	1	11	5
L 110N 108+00E	.7	7	6	16	17	26	1	65	5
L 110N 108+50E	.2	5	6	19	28	10	1	81	5
L 110N 109+00E	.2	5	7	25	29	11	1	81	5
L 110N 109+50E	.1	6	9	28	9	31	1	163	35
L 110N 110+00E	.2	6	9	39	42	18	1	173	5
L 110N 110+50E	.2	6	10	37	27	18	1	148	5
L 110N 111+00E	.2	2	2	11	10	6	1	28	5
L 111N 90+50E	.1	3	6	17	7	10	1	48	5
L 111N 91+00E	.1	4	6	9	11	11	1	50	10
L 111N 91+50E	.1	3	4	11	5	9	1	40	5
L 111N 92+00E	.1	10	10	31	25	35	1	150	5
L 111N 92+50E	.4	14	7	25	26	40	1	195	5
L 111N 93+00E	.1	16	9	20	25	26	1	327	10
L 111N 93+50E	.5	14	6	30	22	25	1	175	15
L 111N 94+00E	.5	20	8	36	30	49	2	251	15
L 111N 94+50E	.3	33	7	23	28	73	2	239	20
L 111N 95+00E	.6	28	8	21	33	64	2	223	15
L 111N 95+50E	.9	40	8	30	34	320	2	625	155
L 111N 96+00E	1.5	30	7	70	28	83	1	813	35
L 111N 96+50E	4.9	25	9	132	35	447	1	740	25
L 111N 97+00E	2.0	31	9	51	37	220	1	582	20
L 111N 97+50E	.2	21	8	15	39	94	1	363	45
L 111N 98+00E	.4	23	7	19	31	173	2	480	5
L 111N 98+50E	1.8	21	7	29	28	221	2	813	10
L 111N 99+00E	1.0	34	8	22	32	314	1	812	10
L 111N 99+50E	1.8	21	9	110	28	299	2	737	15
L 111N 100+00E	.5	25	17	167	20	151	3	516	20
L 111N 100+50E	.8	64	15	123	15	106	8	298	80
L 111N 101+00E	1.0	68	9	132	10	103	3	538	10
L 111N 101+50E	.5	25	12	61	13	272	1	274	5
L 111N 102+50E	1.6	82	6	379	15	594	2	1825	15
L 111N 103+00E	1.9	95	10	283	24	372	3	2093	110
L 111N 103+50E	2.2	78	13	332	32	406	3	1453	25
L 111N 105+00E	1.3	34	10	65	27	237	3	629	10
L 111N 105+50E	.1	7	8	29	26	54	1	226	15
L 111N 106+00E	.1	13	6	13	19	33	1	209	5
L 111N 106+50E	1.6	7	25	13	11	74	1	146	5
L 111N 107+00E	.1	7	9	22	28	26	1	94	5
L 111N 107+50E	.1	5	6	14	24	21	1	144	5
L 111N 108+00E	.1	3	6	15	31	9	1	54	5
L 111N 108+50E	.1	5	6	16	34	7	1	61	5
L 111N 109+00E	.1	4	6	19	32	8	1	51	5
L 111N 109+50E	.3	6	8	45	10	37	2	233	5
L 111N 110+00E	.1	3	5	16	25	4	1	64	5
L 111N 110+50E	.1	5	6	19	35	9	1	48	5
L 111N 111+00E	.4	4	6	18	28	6	1	51	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0271-SJ5+6
DATE: 97/09/22
* CORE * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 112N 90+00E	.1	2	3	5	7	7	1	32	5
L 112N 90+50E	.1	3	7	10	15	7	1	78	5
L 112N 91+00E	.1	4	9	12	21	12	2	65	5
L 112N 91+50E	.1	2	7	15	15	10	3	75	5
L 112N 92+00E	.1	7	7	37	25	12	2	105	5
L 112N 93+00E	.1	5	7	26	27	16	1	146	5
L 112N 93+50E	.2	23	8	41	21	51	3	407	5
L 112N 94+00E	.1	19	7	46	26	34	4	305	15
L 112N 94+50E	.3	34	5	69	20	77	2	218	35
L 112N 95+00E	.5	33	8	23	35	93	3	365	10
L 112N 95+50E	.3	17	4	14	16	52	2	141	55
L 112N 96+00E	.2	31	8	22	35	76	3	290	70
L 112N 96+50E	.1	46	10	17	27	159	4	700	65
L 112N 97+00E	1.8	25	8	27	35	247	3	444	5
L 112N 97+50E	.2	17	7	19	34	50	2	215	5
L 112N 98+00E	.6	24	8	17	41	156	3	711	10
L 112N 100+00E A	2.3	30	12	152	28	191	4	1003	80
L 112N 100+50E	1.5	29	9	81	23	353	3	836	20
L 112N 101+00E	.2	21	7	48	16	158	3	434	25
L 112N 101+50E	.4	26	12	53	15	254	3	301	40
L 112N 102+00E	.2	26	10	53	16	104	4	326	10
L 112N 102+50E	4.7	117	6	45	16	550	3	864	15
L 112N 103+00E	.1	17	10	43	19	73	2	414	5
L 112N 103+50E	.2	28	6	18	11	56	4	180	70
L 112N 104+00E	.6	4	5	10	17	15	1	78	5
L 112N 104+50E	.1	7	9	20	30	24	1	153	5
L 112N 105+00E	.1	1	1	2	2	6	1	12	5
L 112N 105+50E	.1	6	8	22	31	16	1	79	5
L 112N 106+00E	.1	7	9	27	27	28	1	98	5
L 112N 106+50E	.4	5	5	13	15	31	1	60	5
L 112N 107+00E	.2	4	5	18	19	26	1	86	5
L 112N 107+50E	.1	6	8	46	26	20	1	100	5
L 112N 108+00E	.1	4	7	20	35	9	1	54	5
L 112N 108+50E	.8	6	8	15	34	8	1	68	5
L 112N 109+00E	.1	5	8	20	34	8	1	60	5
L 112N 110+00E	.1	5	7	22	41	9	1	67	5
L 112N 110+50E	.1	5	9	23	41	9	1	65	5
L 112N 111+00E	.1	4	6	42	31	7	1	77	5
L 112N 100+00E B	4.7	44	26	2087	29	328	10	5170	525

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0272-SJ1+2
DATE: 97/09/24
* CORE * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 113N 90+00E	.1	6	9	16	1	21	74	2	91	5
L 113N 90+50E	.1	5	4	7	1	9	12	1	39	5
L 113N 91+00E	.1	5	6	10	1	18	9	1	58	5
L 113N 91+50E	.1	4	4	8	1	10	9	1	36	5
L 113N 92+00E	.1	4	7	13	1	16	9	2	60	5
L 113N 92+50E	.1	7	7	19	1	14	14	1	86	5
L 113N 93+13E	.1	10	9	25	1	21	32	2	144	5
L 113N 93+50E	.1	8	6	17	1	25	17	1	141	5
L 113N 94+00E	.1	12	8	19	1	29	29	2	184	5
L 113N 94+50E	.2	16	7	36	1	32	29	2	284	35
L 113N 95+00E	.2	21	11	39	1	41	125	2	470	5
L 113N 95+50E	.2	24	11	31	1	43	100	2	384	10
L 113N 96+00E	.8	34	10	35	1	40	127	3	492	5
L 113N 96+50E	1.0	28	9	27	1	35	153	3	432	5
L 113N 97+00E	38.1	27	8	40	1	33	184	2	545	25
L 113N 97+50E	.7	51	10	23	2	28	235	3	761	5
L 113N 98+00E	2.0	25	10	38	1	38	146	2	476	50
L 113N 98+50E	.7	38	9	36	5	11	84	1	226	5
L 113N 99+00E	1.2	45	10	30	1	28	200	2	560	5
L 113N 99+50E	.2	27	9	15	1	19	269	3	732	5
L 113N 100+00E	.3	13	9	9	2	12	111	2	259	10
L 113N 100+50E	.3	16	13	27	2	16	207	1	439	5
L 113N 101+00E	1.0	25	10	220	1	22	178	3	405	10
L 113N 101+50E	.2	13	11	43	2	23	103	2	353	85
L 113N 102+00E	.6	6	5	15	3	11	44	1	111	5
L 113N 102+50E	.4	11	7	19	5	22	49	2	157	15
L 113N 103+00E	.1	6	4	9	1	14	23	1	72	5
L 113N 103+50E	.1	41	8	59	4	28	29	1	448	5
L 113N 104+00E	.1	5	7	13	3	28	11	1	79	5
L 113N 104+50E	.4	9	9	72	6	30	19	1	130	5
L 113N 105+00E	.1	3	6	15	1	29	8	1	53	5
L 113N 105+50E	.1	3	6	12	1	23	11	1	57	5
L 113N 106+00E	.4	4	3	12	5	15	24	1	81	5
L 113N 106+50E	.4	2	2	7	4	7	19	1	22	5
L 113N 107+00E	.3	7	10	92	9	31	36	1	287	5
L 113N 107+50E	.1	5	7	19	1	34	9	1	52	5
L 113N 108+00E	.1	4	8	20	1	34	9	1	54	5
L 113N 108+50E	.1	4	6	19	1	34	9	1	54	5
L 113N 109+00E	.1	8	7	25	16	20	31	1	187	15
L 113N 109+50E	.1	4	7	21	1	35	9	1	57	5
L 113N 110+00E	.1	5	8	24	1	41	9	1	68	5
L 113N 110+50E	.1	6	9	26	1	42	10	1	67	5
L 113N 111+00E	.1	5	7	23	1	40	10	1	64	5
L 114N 90+00E	.1	2	5	5	1	9	8	1	37	5
L 114N 90+50E	.2	3	5	7	1	12	9	1	44	5
L 114N 91+00E	.2	5	6	15	1	21	7	1	67	5
L 114N 91+50E	.2	3	5	11	1	13	9	1	46	5
L 114N 92+00E	.1	3	7	19	1	18	9	1	78	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0272-SJ3+4
DATE: 97/09/24
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 114N 92+50E	.1	5	7	14	1	13	12	1	69	5
L 114N 93+00E	.1	5	3	15	1	7	15	1	50	10
L 114N 93+37E	.1	5	3	9	1	10	14	1	31	15
L 114N 93+77E	.1	8	6	13	1	26	25	1	64	5
L 114N 94+00E	.1	10	11	25	1	15	25	1	131	10
L 114N 94+50E	.1	8	6	17	2	11	38	2	108	20
L 114N 95+00E	.1	7	5	12	1	9	30	1	120	20
L 114N 95+50E	.1	9	6	17	1	13	27	1	94	5
L 114N 96+00E	1.2	24	9	34	1	23	172	2	349	10
L 114N 96+50E	.2	6	6	16	1	13	64	2	235	15
L 114N 97+00E	.8	70	8	79	2	29	118	2	814	10
L 114N 97+50E	.4	14	9	32	2	18	166	1	270	10
L 114N 98+00E	.7	14	9	33	2	17	153	3	214	15
L 114N 98+50E	2.5	27	11	57	4	21	158	2	606	495
L 114N 99+00E	.8	30	8	48	2	25	147	2	318	20
L 114N 99+50E	.1	17	9	29	1	28	143	2	327	80
L 114N 100+00E	.4	24	8	40	2	17	195	3	377	20
L 114N 100+50E	1.0	15	9	59	1	19	229	1	318	35
L 114N 101+00E	.3	7	8	21	1	27	32	2	190	5
L 114N 101+50E	.3	7	10	22	4	24	27	2	194	25
L 114N 102+00E	.1	5	6	14	5	13	66	1	124	5
L 114N 102+50E	.1	8	6	14	1	17	35	1	102	60
L 114N 103+00E	.4	5	5	12	4	15	26	2	91	10
L 114N 103+50E	.1	5	6	12	9	19	18	1	132	5
L 114N 104+00E	.2	6	6	12	5	28	12	1	106	5
L 114N 104+50E	.6	3	4	10	4	12	12	1	71	5
L 114N 105+00E	.1	3	5	11	1	25	10	2	52	5
L 114N 105+50E	.1	5	7	10	10	9	36	1	75	5
L 114N 106+00E	.1	8	8	13	3	14	37	1	101	5
L 114N 106+50E	.2	4	7	15	1	31	11	1	59	5
L 114N 107+00E	.1	4	6	18	1	33	8	1	51	5
L 114N 107+50E	.1	6	7	20	1	34	9	2	58	5
L 114N 108+00E	.1	6	9	28	8	45	10	1	92	5
L 114N 108+50E	.1	4	7	20	1	35	7	1	54	10
L 114N 109+00E	.2	6	7	22	1	38	11	1	66	5
L 114N 109+50E	.1	4	8	22	1	37	10	1	59	5
L 114N 110+00E	.3	6	6	16	1	33	9	1	68	5
L 114N 110+50E	.1	9	16	50	3	20	26	3	192	35
L 114N 111+00E	.1	13	18	44	4	20	31	1	200	10
L 115N 90+00E	.1	2	5	6	1	9	9	1	42	5
L 115N 90+50E	.1	1	6	7	1	8	8	1	51	5
L 115N 91+00E	.2	4	6	15	1	16	10	1	61	5
L 115N 91+50E	.1	4	8	22	1	22	9	2	78	5
L 115N 92+00E	.3	4	5	8	1	9	9	1	52	5
L 115N 92+50E	.1	4	7	9	1	13	9	1	56	5
L 115N 93+00E	.1	4	7	11	1	15	9	2	88	5
L 115N 93+50E	.4	10	11	66	1	27	20	2	103	5
L 115N 94+00E	.1	4	9	13	1	16	20	2	69	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0272-SJ5+6
DATE: 97/09/24
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 115N 94+50E	.2	7	10	28	1	18	14	2	138	5
L 115N 95+00E	2.2	24	9	179	1	27	85	2	385	5
L 115N 95+50E	.9	5	6	13	3	10	74	1	114	5
L 115N 96+00E	1.1	28	13	33	2	22	250	2	389	5
L 115N 96+50E	.1	10	9	11	4	11	33	1	81	5
L 115N 97+00E	.4	27	11	35	3	17	101	2	236	20
L 115N 97+50E	.1	4	5	12	3	7	24	1	60	5
L 115N 98+00E	1.1	32	11	314	1	18	85	3	573	80
L 115N 98+50E	.6	16	9	37	7	15	57	1	148	15
L 115N 99+00E	.6	13	5	72	1	7	27	1	75	5
L 115N 99+50E	.6	18	9	213	1	22	96	2	426	5
L 115N 100+00E	.6	19	10	131	1	23	80	2	567	65
L 115N 100+50E	.1	6	6	23	5	12	28	1	184	5
L 115N 101+00E	.4	7	8	51	1	33	24	1	130	5
L 115N 101+50E	.1	6	5	15	1	23	18	1	70	5
L 115N 102+00E	.1	6	6	19	1	29	21	1	73	5
L 115N 102+50E	.8	7	8	22	1	28	20	1	92	15
L 115N 103+00E	.1	4	4	9	3	16	13	1	52	5
L 115N 103+50E	.3	12	8	357	6	28	35	2	261	10
L 115N 104+00E	.1	6	7	20	1	35	9	1	58	5
L 115N 104+50E	.1	8	7	111	9	32	14	2	216	10
L 115N 105+00E	.1	6	8	21	1	36	9	1	60	5
L 115N 105+50E	.1	5	7	19	1	36	7	1	52	5
L 115N 106+00E	.1	4	6	15	1	35	8	1	63	10
L 115N 106+50E	.1	7	7	23	1	36	11	2	58	5
L 115N 107+00E	.1	6	9	21	1	37	10	1	60	5
L 115N 107+50E	.1	6	7	21	1	36	7	1	56	5
L 115N 108+00E	.1	6	7	49	5	18	28	2	135	5
L 115N 108+50E	.1	7	6	16	1	36	8	1	54	5
L 115N 109+00E	.1	5	7	19	1	41	8	1	65	5
L 115N 109+50E	.1	9	13	34	3	20	27	2	165	10
L 115N 110+00E	.1	11	15	55	3	20	28	1	187	5
L 115N 110+50E	.1	14	13	86	1	19	38	1	154	60
L 115N 111+00E	.1	7	8	20	2	16	17	1	96	25
L 116N 90+00E	.1	2	4	6	1	7	6	1	31	5
L 116N 90+50E	.1	4	7	15	1	18	7	2	73	5
L 116N 91+50E	.1	4	6	8	1	11	6	1	48	5
L 116N 92+00E	.1	4	7	13	1	14	8	2	65	5
L 116N 92+50E	.1	4	6	9	1	11	7	1	53	5
L 116N 93+00E	.1	4	7	10	1	13	7	1	59	5
L 116N 93+50E	.6	9	13	32	1	17	19	1	112	5
L 116N 94+00E	.6	4	10	18	1	16	12	1	165	5
L 116N 94+50E	.1	9	9	22	2	31	12	1	128	5
L 116N 95+00E	.1	7	6	14	1	31	21	1	100	5
L 116N 95+50E	.6	7	5	10	2	14	23	1	125	10
L 116N 96+00E	.5	7	8	31	2	13	35	1	119	40
L 116N 96+50E	1.1	17	10	70	2	25	62	2	131	10
L 116N 97+00E	.4	16	9	157	2	30	49	3	128	10

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
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FILE NO: 7S-0272-SJ7+8
DATE: 97/09/24
* CORE * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 116N 97+50E	.1	6	6	12	2	25	36	2	77	5
L 116N 98+00E	.3	10	8	46	3	22	33	1	155	5
L 116N 98+50E	.2	15	9	70	1	28	32	2	1011	5
L 116N 99+00E	.6	27	9	206	1	22	72	2	307	5
L 116N 99+50E	.4	1	2	4	1	4	11	1	14	15
L 116N 100+00E	.1	4	3	7	2	4	11	1	22	5
L 116N 100+50E	.1	6	8	18	1	25	17	2	120	45
L 116N 101+00E	.5	7	8	146	1	28	21	1	1156	5
L 116N 101+50E	.1	5	8	31	1	29	17	1	93	35
L 116N 102+00E	.1	4	4	12	1	25	10	2	36	5
L 116N 102+50E	.1	6	8	19	1	35	9	1	53	10
L 116N 103+00E	.1	5	7	15	2	35	8	1	61	10
L 116N 103+50E	.1	6	7	16	1	34	9	1	63	5
L 116N 104+00E	.6	6	5	9	1	26	9	1	72	5
L 116N 104+50E	.2	6	7	17	1	34	10	2	56	5
L 116N 105+00E	.1	7	7	19	1	37	8	1	65	5
L 116N 105+50E	.1	7	8	20	1	36	11	1	57	5
L 116N 106+00E	.1	5	9	21	1	40	9	1	57	5
L 116N 106+50E	.1	6	9	20	1	40	9	1	59	5
L 116N 107+00E	.1	5	8	20	1	35	8	1	64	5
L 116N 107+50E	.1	7	9	25	1	32	15	1	95	45
L 116N 108+00E	.1	7	7	16	1	38	9	1	63	5
L 116N 108+50E	.1	4	7	18	1	37	9	1	66	5
L 116N 109+00E	.8	11	6	37	1	21	14	1	107	70
L 116N 109+50E	.2	15	25	78	1	79	53	4	163	5
L 116N 110+00E	.1	10	20	52	1	67	32	3	135	5
L 116N 110+50E	.1	13	21	57	1	60	65	3	150	5
L 116N 111+00E	.4	8	10	29	3	18	72	3	140	5

COMP: JOHN POLONI & ASSOC. LTD.
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8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0273-SJ1+2
DATE: 97/09/24
* CORE * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 117N 90+00E	.1	6	11	24	1	25	11	2	108	5
L 117N 90+50E	.1	5	8	12	1	14	8	1	77	5
L 117N 91+00E	.1	4	9	14	1	17	8	1	77	5
L 117N 91+50E	.1	8	11	29	1	27	12	2	120	5
L 117N 92+00E	.1	4	8	12	1	14	11	1	79	5
L 117N 92+50E	.1	4	7	8	1	15	8	1	60	5
L 117N 93+00E	.1	5	9	14	1	18	8	1	108	5
L 117N 93+50E	.1	6	8	21	1	18	17	2	93	5
L 117N 94+00E	.1	8	5	12	1	22	10	2	53	5
L 117N 94+50E	.1	9	7	8	1	26	10	2	59	70
L 117N 95+00E	.1	8	8	11	1	39	10	1	68	5
L 117N 95+50E	.1	8	5	7	1	23	7	1	53	5
L 117N 96+00E	.1	6	6	12	1	37	7	1	48	5
L 117N 96+50E	.1	6	4	9	1	19	14	2	44	5
L 117N 97+00E	.1	8	8	48	1	33	13	2	83	10
L 117N 97+50E	.1	7	11	43	3	33	12	2	73	5
L 117N 98+00E	.1	7	8	13	2	31	9	1	64	15
L 117N 98+50E	.1	10	6	24	3	20	12	1	281	15
L 117N 99+00E	.7	25	13	107	1	23	77	2	593	15
L 117N 99+50E	.3	26	13	65	2	21	45	2	168	10
L 117N 100+00E	.2	24	10	45	1	26	23	2	156	5
L 117N 100+50E	.4	11	10	295	1	37	74	2	1092	5
L 117N 101+00E	.1	6	10	23	1	42	9	2	67	5
L 117N 101+50E	.1	6	9	32	1	40	10	1	80	5
L 117N 102+00E	.1	5	6	1	1	34	8	1	55	5
L 117N 102+50E	.1	6	8	1	1	39	9	1	62	5
L 117N 103+00E	.1	6	8	1	1	38	9	1	58	5
L 117N 103+50E	.1	5	7	1	1	34	8	2	62	5
L 117N 104+00E	.1	6	7	1	1	37	9	2	59	5
L 117N 104+50E	.1	5	9	1	1	41	8	1	61	5
L 117N 105+00E	.1	6	7	1	1	34	10	1	63	5
L 117N 105+50E	.1	7	8	1	1	36	8	1	60	5
L 117N 106+00E	.1	12	8	1	1	34	9	1	54	5
L 117N 106+50E	.1	5	14	1	1	35	17	1	91	70
L 117N 107+00E	.2	11	14	1	2	21	26	1	148	5
L 117N 107+50E	.2	12	15	1	2	20	25	2	134	5
L 117N 108+00E	.1	9	11	1	2	26	25	2	152	5
L 117N 108+50E	.1	10	13	1	1	29	38	2	171	5
L 117N 109+00E	.3	9	9	1	1	20	20	2	99	10
L 117N 109+50E	.1	6	7	1	1	34	9	2	61	5
L 117N 110+00E	.1	15	19	1	1	33	88	2	270	15
L 117N 110+50E	.3	11	17	1	1	60	59	2	217	15
L 117N 111+00E	.2	9	10	1	1	11	80	1	143	15
L 118N 90+00E	.1	5	7	1	1	14	10	2	70	10
L 118N 90+50E	.1	4	7	1	1	12	9	2	57	5
L 118N 91+00E	.1	4	9	1	1	14	8	1	72	5
L 118N 91+50E	.1	5	9	1	1	13	10	1	66	5
L 118N 92+00E	.1	4	8	1	1	12	10	2	69	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0273-SJ3+4
DATE: 97/09/24
* Rock * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 118N 92+50E	.1	3	11	11	1	14	5	2	79	5
L 118N 93+00E	.1	5	11	6	1	19	9	3	94	10
L 118N 93+50E	.1	2	8	2	1	16	9	2	62	10
L 118N 94+00E	.1	5	6	1	1	32	6	2	68	5
L 118N 94+50E	.1	5	9	5	1	41	7	2	67	5
L 118N 95+00E	.1	7	7	1	1	33	8	2	71	5
L 118N 95+50E	.1	3	8	1	1	39	6	3	73	5
L 118N 96+00E	.1	6	9	1	1	41	6	2	63	5
L 118N 96+50E	.1	1	5	1	1	28	4	1	40	5
L 118N 97+00E	.5	4	6	26	2	22	9	2	65	5
L 118N 97+50E	.1	7	9	6	1	43	6	1	67	5
L 118N 98+00E	.3	4	8	27	3	33	9	2	81	5
L 118N 98+50E	.1	5	8	36	3	29	8	2	100	5
L 118N 99+00E	.1	5	9	5	1	41	7	1	58	5
L 118N 99+50E	.1	5	11	10	1	46	7	2	61	5
L 118N 100+00E	.1	4	8	8	1	42	6	1	61	5
L 118N 100+50E	.1	4	9	6	1	43	7	2	62	5
L 118N 101+00E	.1	6	9	6	1	53	5	3	64	5
L 118N 101+50E	.1	3	8	4	1	40	7	2	58	5
L 118N 103+50E	.2	9	13	35	4	24	23	3	152	5
L 118N 104+50E	.3	10	16	29	2	22	19	3	163	5
L 118N 105+50E	.2	10	15	45	5	28	24	3	163	10
L 118N 106+50E	.7	40	42	144	1	242	194	6	310	10
L 118N 107+00E	.1	22	36	53	2	170	163	6	319	5
L 118N 107+50E	.2	20	31	56	1	141	178	4	254	5
L 119N 90+00E	.1	6	10	14	1	20	8	2	94	5
L 119N 90+50E	.1	4	9	13	1	19	7	2	76	5
L 119N 91+00E	.1	3	8	8	1	14	8	2	73	5
L 119N 91+50E	.1	4	6	5	1	13	11	1	67	5
L 119N 92+00E	.1	4	5	8	1	13	11	2	65	5
L 119N 92+50E	.1	3	4	3	1	7	10	1	43	5
L 119N 93+00E	.2	7	7	28	1	17	16	2	69	5
L 119N 94+00E	.1	6	4	2	1	20	9	1	46	10
L 119N 94+50E	.1	6	7	7	1	35	8	1	60	5
L 119N 95+00E	.1	8	6	5	1	27	11	2	51	5
L 119N 95+50E	.1	9	6	3	1	27	14	3	58	5
L 119N 96+00E	.1	7	6	8	1	29	10	1	44	5
L 119N 96+50E	.1	7	5	5	1	23	10	2	56	5
L 119N 97+00E	.1	6	4	3	1	24	8	2	53	5
L 119N 97+50E	.1	5	8	13	1	38	7	2	54	5
L 119N 98+00E	.1	10	9	18	1	41	8	1	60	5
L 119N 98+50E	.1	6	8	17	1	40	8	2	60	5
L 119N 99+00E	.1	6	6	11	1	34	8	1	53	10
L 119N 99+50E	.1	5	9	16	1	42	8	1	55	5
L 119N 100+00E	.1	7	5	6	1	32	7	1	47	5
L 119N 100+50E	.1	7	8	10	1	42	8	1	66	10
L 119N 101+00E	.1	5	6	10	1	36	9	2	60	5
L 119N 101+50E	.1	6	7	18	1	35	9	1	68	5

COMP: JOHN POLONI & ASSOC. LTD.
PROJ: SKARN
ATTN: John Poloni

MIN-EN LABS — ICP REPORT

8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 7S-0273-SJ5+6
DATE: 97/09/24
* * (ACT:ICP 31)

SAMPLE NUMBER	AG PPM	AS PPM	CO PPM	CU PPM	MO PPM	NI PPM	PB PPM	SB PPM	ZN PPM	Au-wet PPB
L 119N 102+00E	.1	8	12	28	2	20	22	1	120	5
L 119N 103+00E	.1	7	9	25	2	33	11	1	88	10
L 119N 104+50E	.2	12	13	53	4	21	26	2	167	10
L 119N 105+00E	.1	20	8	57	3	24	20	1	134	5
L 119N 105+50E	.1	6	7	11	2	23	15	1	91	5
L 119N 106+50E	.4	27	34	92	1	191	179	4	305	5
L 119N 107+00E	.2	34	38	69	1	230	119	4	237	5
L 119N 107+50E	.3	28	36	67	1	202	130	4	200	5
L 120N 90+00E	.1	5	10	29	1	17	8	1	73	5
L 120N 90+50E	.1	6	8	16	1	17	13	2	70	5
L 120N 91+00E	.1	4	8	16	1	13	14	1	78	5
L 120N 91+50E	.1	2	6	8	1	6	9	1	44	5
L 120N 92+00E	.1	4	3	5	1	11	11	3	37	5
L 120N 92+50E	.1	5	4	4	1	15	8	2	39	5
L 120N 93+00E	.1	4	4	10	2	13	8	1	49	5
L 120N 93+50E	.1	5	3	3	1	12	7	1	37	5
L 120N 94+00E	.1	5	3	5	1	15	8	1	47	15
L 120N 94+50E	.1	7	5	5	1	17	10	2	53	5
L 120N 95+00E	.1	5	3	3	1	11	8	2	27	5
L 120N 95+50E	.1	6	4	3	2	17	7	2	46	5
L 120N 96+00E	.1	9	4	1	1	16	11	1	42	5
L 120N 96+50E	.2	7	4	2	1	14	8	1	37	5
L 120N 97+00E	.1	5	5	3	1	23	8	2	44	5
L 120N 97+50E	.2	4	2	1	1	12	5	1	27	5
L 120N 98+00E	.1	7	7	13	1	37	8	2	57	15
L 120N 98+50E	.1	7	7	15	1	39	9	2	52	25
L 120N 99+00E	.1	6	5	6	1	28	8	1	48	10
L 120N 99+50E	.1	6	7	12	1	33	8	2	55	5
L 120N 100+00E	.1	5	4	8	1	26	8	1	41	15
L 120N 100+50E	.1	5	8	20	1	31	12	1	80	5
L 120N 101+00E	.2	9	11	47	3	25	27	2	148	10
L 120N 101+50E	.1	9	6	11	1	24	11	2	123	5
L 120N 103+00E	.1	6	6	15	1	19	14	2	133	5
L 120N 103+50E	.8	18	14	75	21	24	24	2	239	5
L 120N 104+50E	.2	3	6	14	1	16	9	2	132	5
L 120N 105+00E	.6	34	28	57	2	22	114	2	197	5
L 120N 105+50E	.5	26	23	93	1	29	164	2	240	5

S E R E M Limited

TOODOGGONE PROJECT

TOODOGGONE RIVER AREA (B.C., CANADA)

GEOCHEMICAL AND PROSPECTING REPORT ON THE ACAPULCO, ACA AND PUL CLAIMS (39 UNITS)

by

SHEILA A. CRAWFORD
AND
MOHAN R. VULIMIRI

80-066

DECEMBER, 1980

AR 9309

ABSTRACT

Geochemical silt and soil sampling, along with minor mapping and prospecting, were carried out on the Acapulco, Aca and Pul claims during the 1980 field season. The claims are located in the Toodoggone River Area (N.T.S. 94E/2W), 280 kilometres north of Smithers, B.C. A total of 35 silt and 190 soils were analysed for gold, silver, copper, lead, zinc with 152 of these also analysed for molybdenum. Several rock grab samples were analysed or assayed.

The area is underlain by marble and mafic to felsic volcanics intruded by a multiple phase pluton. The rocks are extensively altered and a skarn occurs along the intrusive-marble contact.

Several anomalous areas are indicated by soils and silts. Most can be traced to outcrops with visible copper, lead, zinc and/or molybdenum sulphide mineralization. Trends outlined by contouring soil grid values are similar to mineralized fracture trends in outcrop.

Extensive fracture-controlled alteration and sulphide deposition indicate that a mineralizing magmatic hydrothermal system was active. Geochemical and assay results warrant further exploration. Detailed prospecting, trenching, a systematic study of fractures and extension of the soil grid are recommended.

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1. INTRODUCTION

The Acapulco, Aca and Pul claim groups are located between 57°11' N and 57°13' N latitude, and 126°52' W and 126°57' W longitude in the Toodoggone River map sheet area, N.T.S. 94E/2W, Omineca Mining Division (see Figures 1 and 2). Elevation ranges from about 1400 metres (4600') to 2065 metres (6774') above sea level. Treeline is between 1520 metres (5000') and 1650 metres (5400') above sea level. Glacial till forms undulating topography in the valleys; outcrop is confined to a few small canyons. Bedrock exposure varies from 50 to 100 percent on the mountains.

Access to the property is by fixed wing plane from Smithers to Sturdee Airstrip, a distance of about 280 kilometres; and from Sturdee Airstrip to the property by helicopter, a distance of about 6 kilometres.

The Acapulco group consists of 15 claim units, staked July 6th, 1980; the Aca and Pul groups consist of 12 claim units each, staked July 20th, 1980. These claim groups are owned and operated by Serem Ltd.

Cominco Ltd. holds four claim units overlapping the southwest corner of the Pul claims (Figure 2), called the Amigo claim (Assessment Report No. 6762).

The Acapulco and Aca claims include an area that has been previously explored for copper and molybdenum, originally staked in 1966 as the Watt claims by Mr. T. Doubt and restaked in 1968 as the Riga claims by Cordilleran Engineering for the Quebec-Cartier Mining Company (Assessment Report No. 1802). In 1973, the claims were restaked and renamed the RN claims by Minas De Cerro

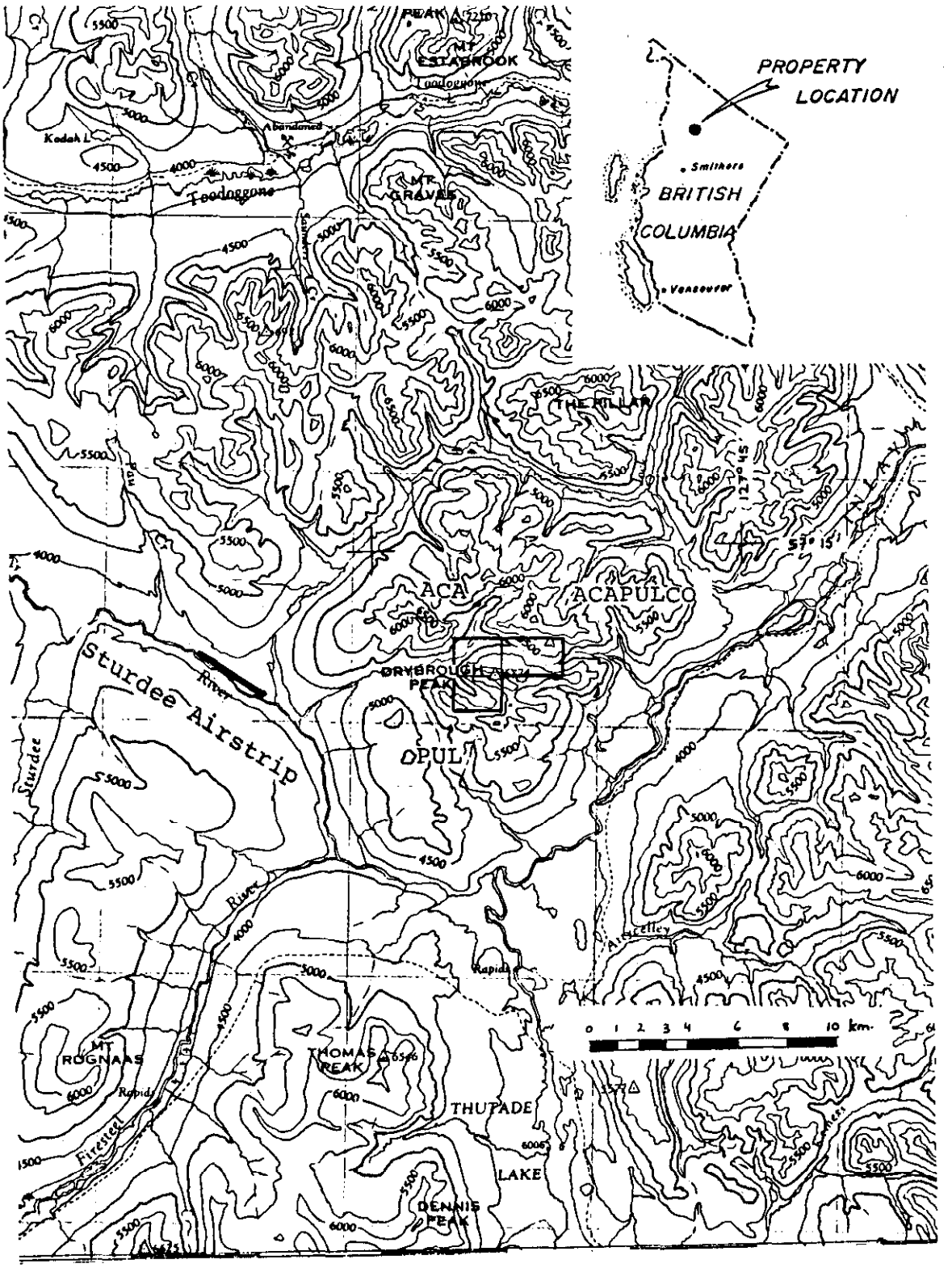


Fig. 1. Location of Acapulco, Aca and Pul Claim Groups.

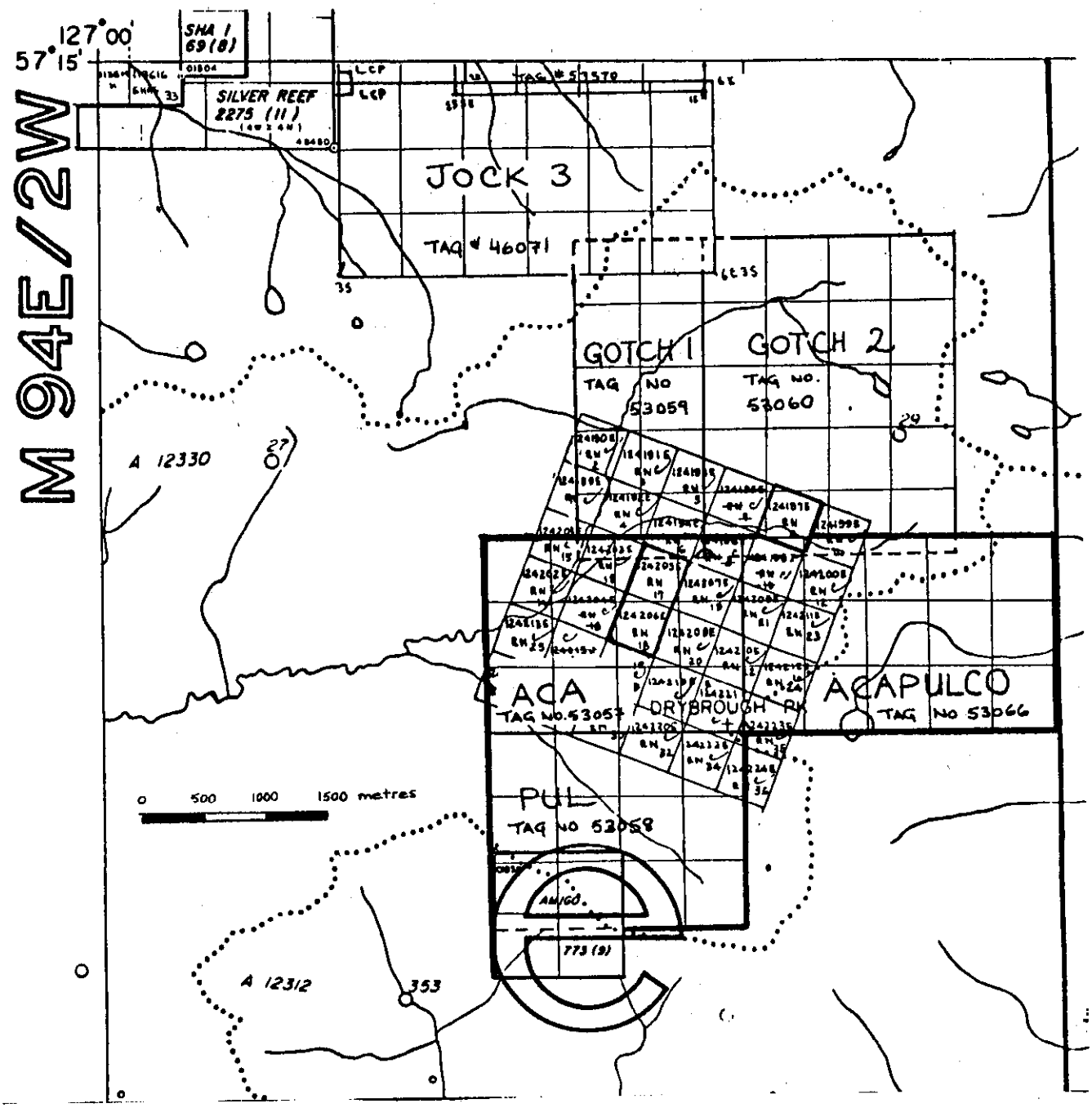


Fig. 2. Claims Map: Acapulco, Aca and Pul Claims.

Dorado Ltd. (Assessment Report No. 5854). They currently retain three 1500' claim units.

Work performed in 1980 by Serem Ltd. includes silt sampling of streams draining the property; soil sampling along treeline and on one grid; preliminary mapping of the property and minor prospecting of approximately 2.1 square kilometres. Table I details the number of geochemical or assay samples taken in each claim group.

The purpose of work in 1980 was to determine the extent and nature of mineralization described by reports on the area.

TABLE I. Detailed list of samples taken in each claim group.

Sample type; area	Claim Group	No. of Samples
Silt; streams	Acapulco	19
	Aca	6
	Pul	10
	Total	35
Soil, contour traverses	Acapulco	23
	Aca	15
	Pul	44
	Total	82
Soil; grid	Acapulco	84
	Aca	21
	Total	105
Rock; prospected area	Acapulco	12
	Aca	6
	Pul	8
	Total	25

2. GEOLOGY

The claims are underlain by mafic to felsic volcanics intruded by a multiple phase pluton (Figure 3). Marble outcrops in the southwest portion of the claims.

Mafic volcanics include pyroclastic breccias, tuffs, flows and derived greywacke and conglomerate. Chlorite is ubiquitous and specularite and magnetite have been developed at the intrusive contact. The sequence strikes approximately 110°, dipping about 25° to the south. Felsic and intermediate pyroclastics overlie the mafic volcanics to the northeast. The volcanics are highly fractured.

Coarse-grained quartz monzonite composes the main mass of the pluton. Syenite, monzonite and granite dikes and stocks, including pegmatites with less than two percent mafic minerals, border the intrusion.

The marble is composed of crystalline calcite and minor dolomite. It is tilted and partially draped over the quartz monzonite. A skarn zone, consisting of massive magnetite bordered by actinolite and Fe-Mg carbonates, is exposed along the eastern intruded contact. Rhodonite and manganese oxide veins occur along the northern contact.

Aphanitic to fine-grained mafic dikes cut all other rock types.

Gabrielse et al (1975) assign marbles in the area to the Permian Asitka Group; mafic volcanics, sills and the cherts to the Upper Triassic Takla Group; similar felsic pyroclastics to the Jurassic Toodoggone Group and intrusions to the Lower to Middle Jurassic.

3. ALTERATION AND MINERALIZATION

Two major types of alteration are recognized in the rocks (Insert, Figure 3). Propylitic alteration, consisting of chlorite, epidote and calcite enveloping fractures, is developed in the volcanics adjacent to the intrusive and within the intrusive. Pyrite is disseminated in pervasively altered zones. Potassic alteration occurs along abundant fractures in the intrusive: small amounts of chalcopyrite are common in zones of intense alteration. Quartz-sericite alteration occurs rarely in fractures within the potassic zone.

Vuggy to massive quartz fracture fillings are common around the intrusive contact. Many of these are coloured green with chlorite or grey with specularite and lesser amounts of galena, sphalerite and manganese oxides. Chalcopyrite, bornite and minor amounts of gold and silver are associated with the quartz. Molybdenite is concentrated along shear zones and is rare elsewhere.

Chalcopyrite, bornite, galena and sphalerite are associated with magnetite in the skarn zone.

4. GEOCHEMICAL SILT SAMPLING

Silt samples were collected along streams at 150 to 250 metre intervals, depending on where suitable silt could be found. Samples were taken from active material, that is, under flowing water, and placed in brown paper envelopes. The sample site and number were plotted on a map with a scale of 1 centimetre to 500 metres. Stream gradient and flow rate were noted.

5. GEOCHEMICAL SOIL SAMPLING

Samples were taken at 100 to 150 metre intervals on traverses at approximately constant elevation - treeline elevation on most of the traverses. Topofil or pacing was used to control distance and the locations were plotted at a scale of 1 centimetre to 500 metres.

A soil grid was set up in an area of poor rock exposure on the Aca and Acapulco claims. The baseline was laid out with a surveyor's chain and compass and marked every 50 metres with flagged pickets. Samples were collected at 100 metre intervals along lines 100 metres apart, using compass, Topofil and the baseline as control.

Samples were collected from the B horizon where developed, the top of the C horizon if a B horizon was not present, and the A horizon in swampy areas. Most of the contour samples were taken from B horizons; those from the grid were almost all from the C horizon. Depth of sampling averaged 20 cm, ranging from 10 to 35 cm. The soil was placed in brown paper envelopes and the locality, depth of sampling, horizon, colour, grain size and amount of organic material were noted. All sample sites were marked with surveyor's flagging.

Soil is poorly developed on the glacial till covered areas in the valleys. Thin soils on the mountain slopes have developed a B horizon in most of the area.

6. GEOCHEMICAL ROCK SAMPLING

Grab samples were selected from outcrops or talus of favourable geology. Half of each sample was sent for geochemical analysis. Sample locality, rock type and presence of sulphides were recorded.

7. GEOCHEMICAL ANALYSIS

Samples were sent to Min-En Laboratories and were analysed for gold, silver, lead, zinc and copper. The analytical procedure for each element is briefly described below:

The samples are dried at 95° C. Soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

For gold, a suitable sample, weight 5 or 10 grams, is pretreated with HNO_3 and $HClO_4$ mixture.

After pretreatment the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Sample solutions are prepared with Methyl Iso-Butyl Ketone for the extraction of gold.

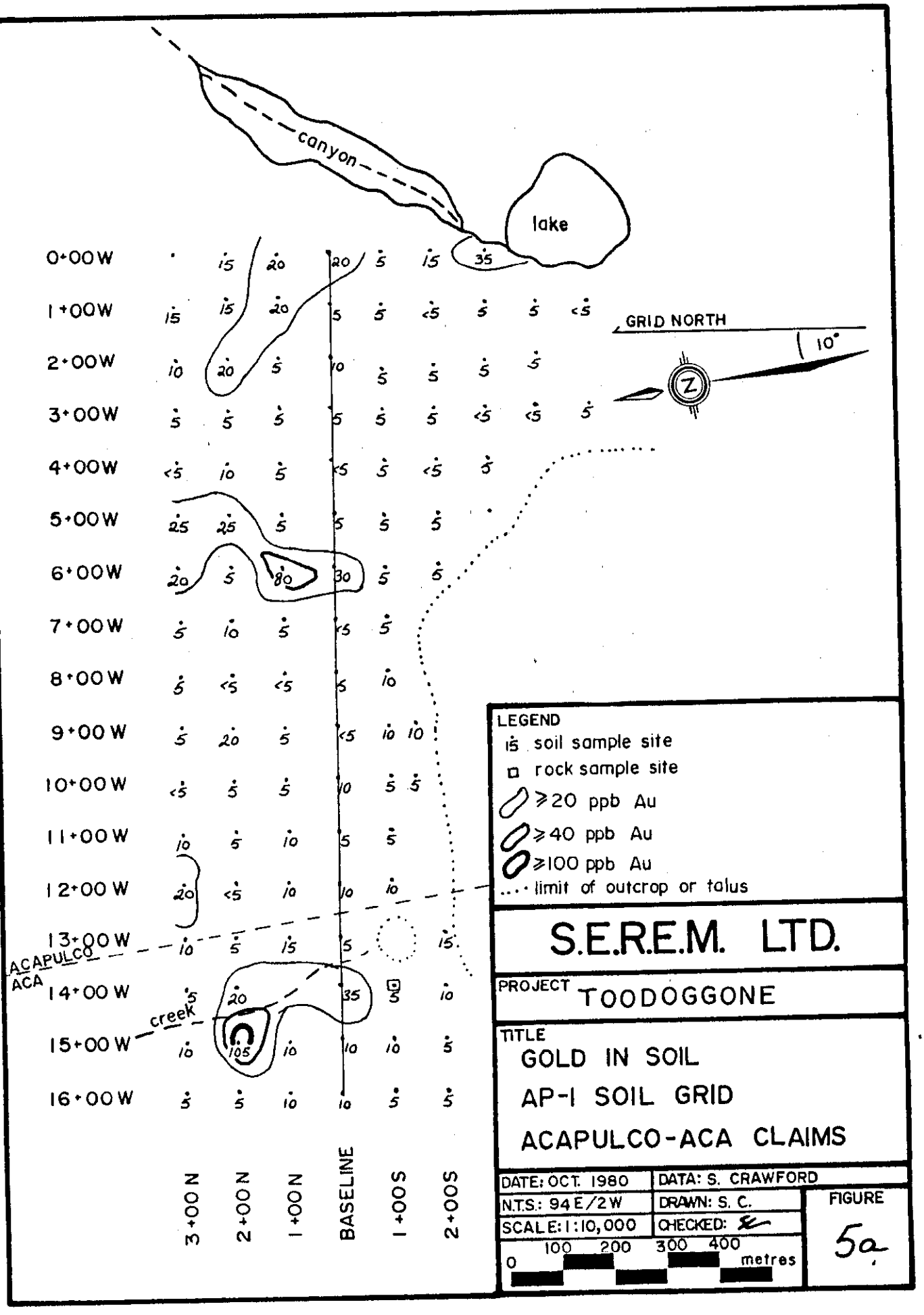
With a set of suitable standard solutions, gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

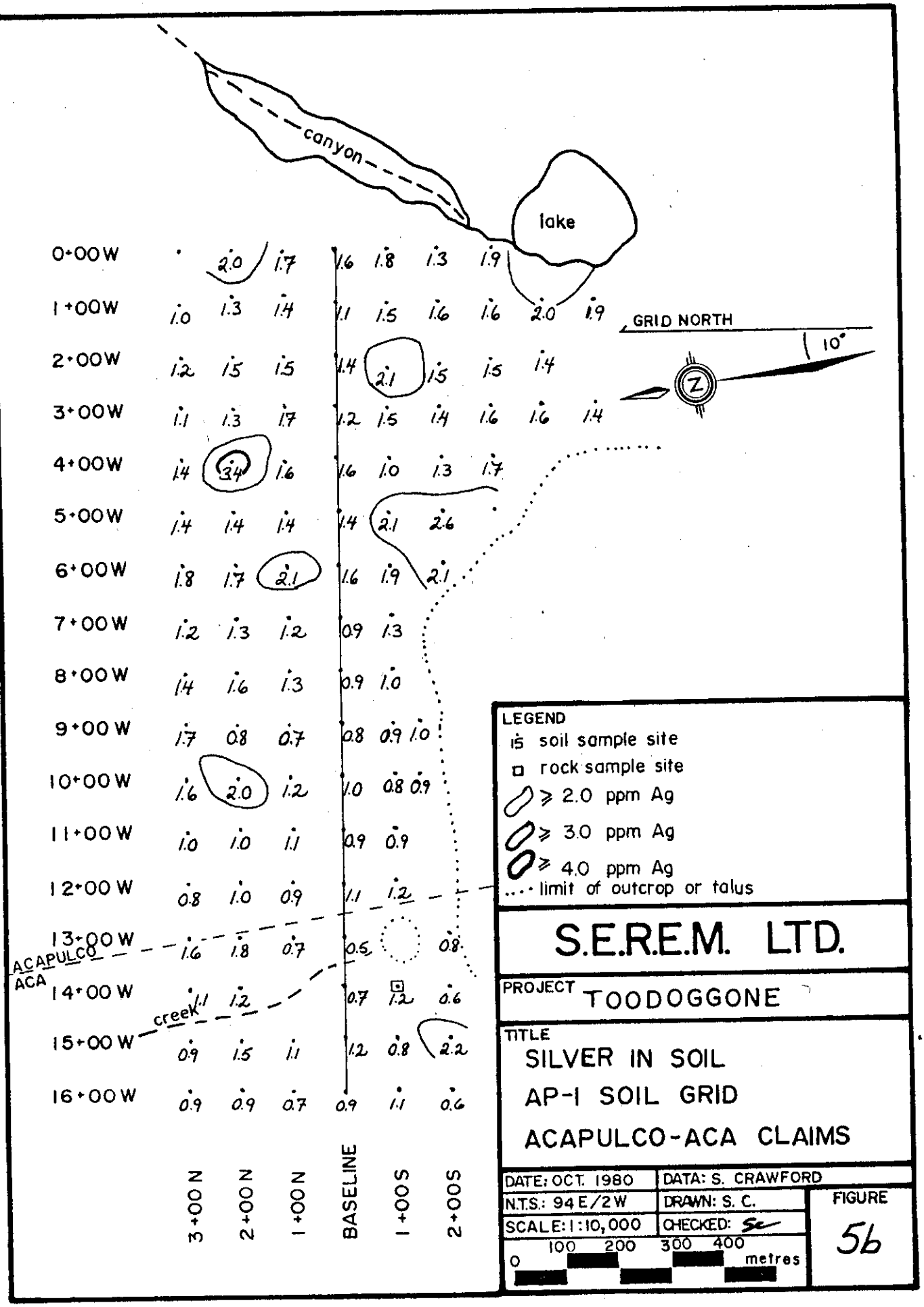
For silver, lead, zinc, copper and molybdenum, samples weighing 1.0 gram are digested for 6 hours with HNO_3 and $HClO_4$ mixture.

After cooling, the samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers using the CH_2H_2-Air Flame combination for silver, copper, lead and zinc. The C_2H_2-NO_2 mixture is used for molybdenum.

8. ASSAYS

Grab samples were selected from outcrop, frost heave or float with visible sulphides (such as chalcopyrite, bornite, galena, sphalerite, molybdenite) and/or numerous quartz fracture fillings. Half of each sample was sent to Min-En Laboratories in North Vancouver for assay. Sample locality, rock type and presence of sulphides were recorded.


canyon
lake
GRID NORTH
10°
0+00W
1+00W
2+00W
3+00W
4+00W
5+00W
6+00W
7+00W
8+00W
9+00W
10+00W
11+00W
12+00W
13+00W
14+00W
15+00W
16+00W
ACAPULCO
ACA
creek
3+00N
2+00N
1+00N
BASELINE
1+00S
2+00S
LEGEND
soil sample site
rock sample site
≥20 ppb Au
≥40 ppb Au
≥100 ppb Au
limit of outcrop or talus
S.E.R.E.M. LTD.
PROJECT TOODOGGONE
TITLE
GOLD IN SOIL
AP-1 SOIL GRID
ACAPULCO-ACA CLAIMS
DATE: OCT. 1980
DATA: S. CRAWFORD
N.T.S.: 94 E/2W
DRAWN: S. C.
SCALE: 1:10,000
CHECKED:
0 100 200 300 400 metres
FIGURE
5a


canyon
lake
GRID NORTH
10°
0+00W
1+00W
2+00W
3+00W
4+00W
5+00W
6+00W
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8+00W
9+00W
10+00W
11+00W
12+00W
13+00W
14+00W
15+00W
16+00W
3+00N
2+00N
1+00N
BASELINE
1+00S
2+00S
ACAPULCO
ACA
creek
LEGEND
soil sample site
rock sample site
≥ 2.0 ppm Ag
≥ 3.0 ppm Ag
≥ 4.0 ppm Ag
limit of outcrop or talus
S.E.R.E.M. LTD.
PROJECT TOODOGGONE
TITLE
SILVER IN SOIL
AP-1 SOIL GRID
ACAPULCO-ACA CLAIMS
DATE: OCT. 1980
DATA: S. CRAWFORD
N.T.S.: 94 E/2 W
DRAWN: S. C.
SCALE: 1:10,000
CHECKED:
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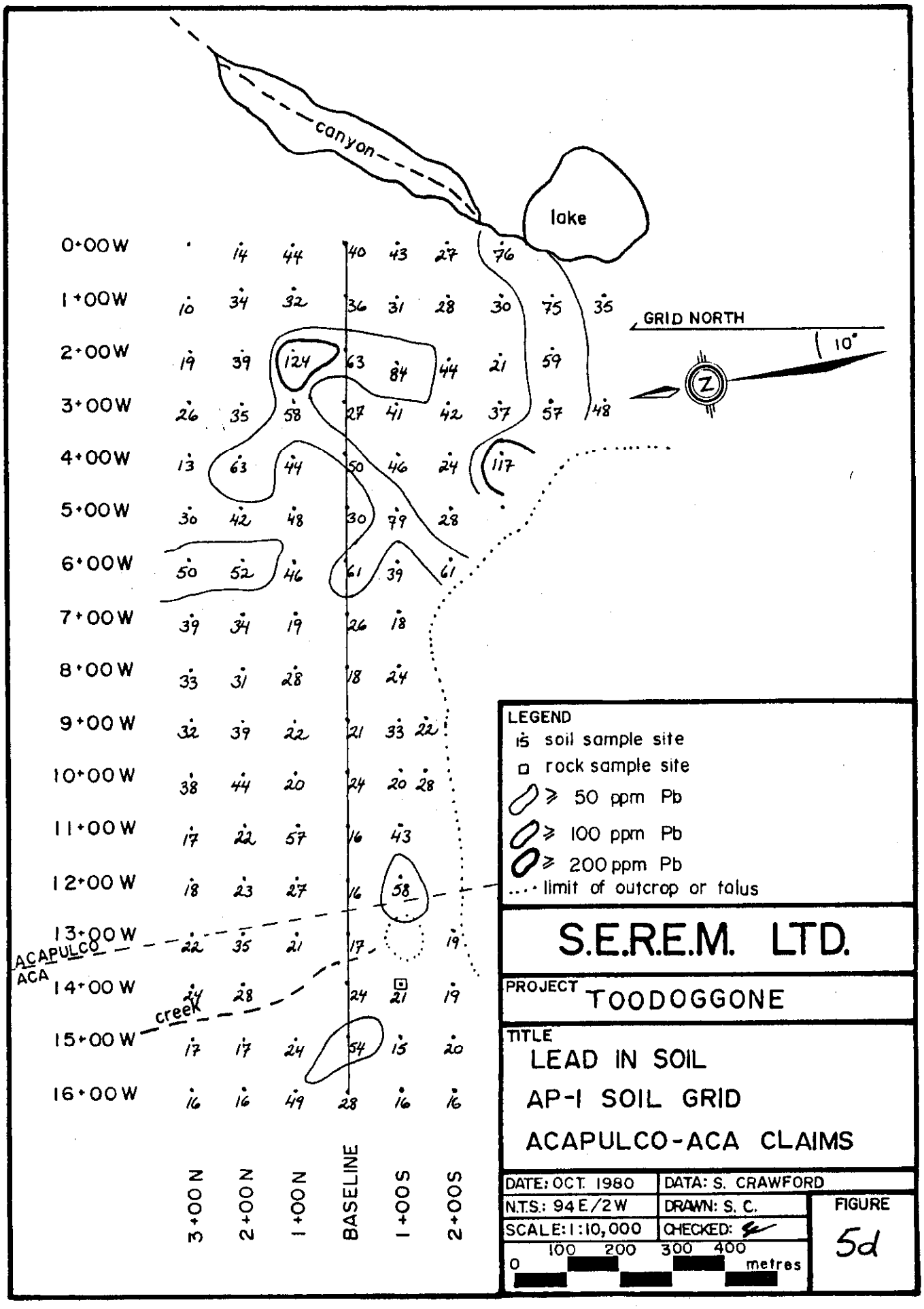
FIGURE
5b


canyon
lake
GRID NORTH
10°
0+00W
1+00W
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3+00W
4+00W
5+00W
6+00W
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12+00W
13+00W
14+00W
15+00W
16+00W
ACAPULCO
ACA
creek
3+00N
2+00N
1+00N
BASELINE
1+00S
2+00S
LEGEND
soil sample site
rock sample site
≥ 50 ppm Pb
≥ 100 ppm Pb
≥ 200 ppm Pb
limit of outcrop or talus
S.E.R.E.M. LTD.
PROJECT TOODOGGONE
TITLE
LEAD IN SOIL
AP-1 SOIL GRID
ACAPULCO-ACA CLAIMS
DATE: OCT. 1980
DATA: S. CRAWFORD
N.T.S.: 94 E/2W
DRAWN: S. C.
SCALE: 1:10,000
CHECKED:
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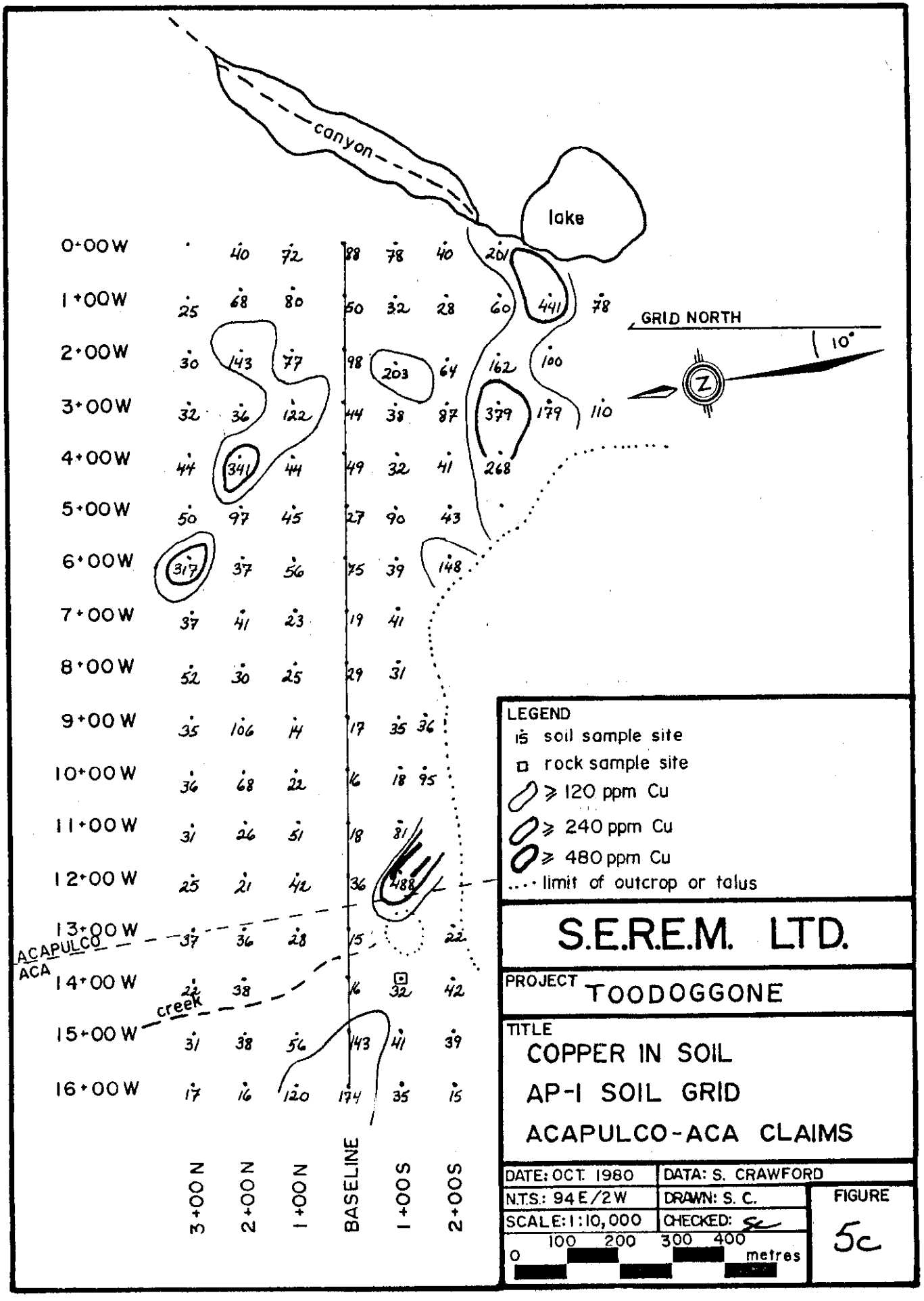
FIGURE
5d


canyon
lake
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10°
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3+00W
4+00W
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8+00W
9+00W
10+00W
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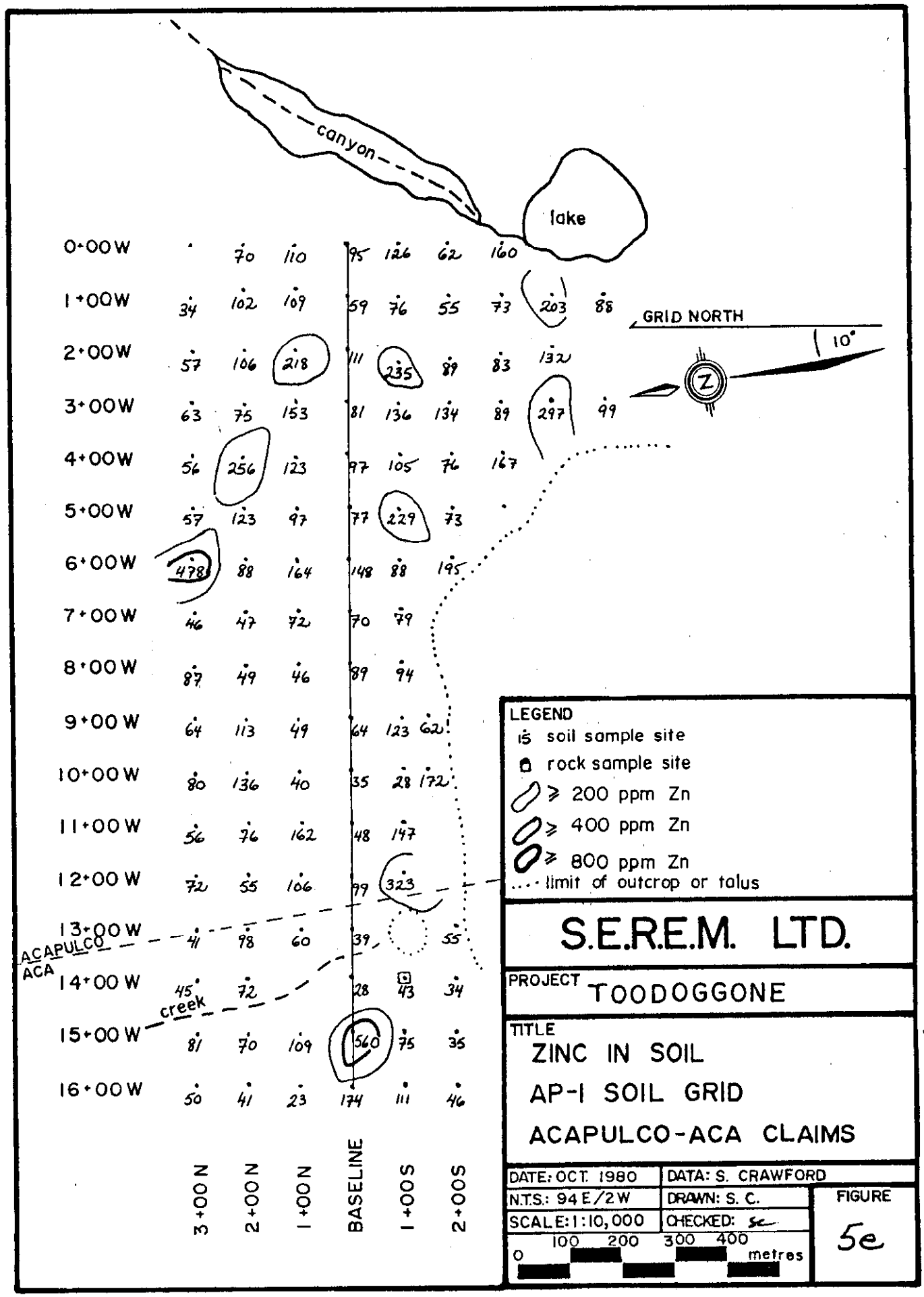
12+00W
13+00W
14+00W
15+00W
16+00W
ACAPULCO
ACA
creek
3+00N
2+00N
1+00N
BASELINE
1+00S
2+00S
LEGEND
soil sample site
rock sample site
≥ 120 ppm Cu
≥ 240 ppm Cu
≥ 480 ppm Cu
limit of outcrop or talus
S.E.R.E.M. LTD.
PROJECT TOODOGGONE
TITLE
COPPER IN SOIL
AP-1 SOIL GRID
ACAPULCO-ACA CLAIMS
DATE: OCT. 1980
DATA: S. CRAWFORD
N.T.S.: 94 E/2 W
DRAWN: S. C.
SCALE: 1:10,000
CHECKED:
0 100 200 300 400 metres
FIGURE
5c


canyon
lake
GRID NORTH
10°
0+00W
1+00W
2+00W
3+00W
4+00W
5+00W
6+00W
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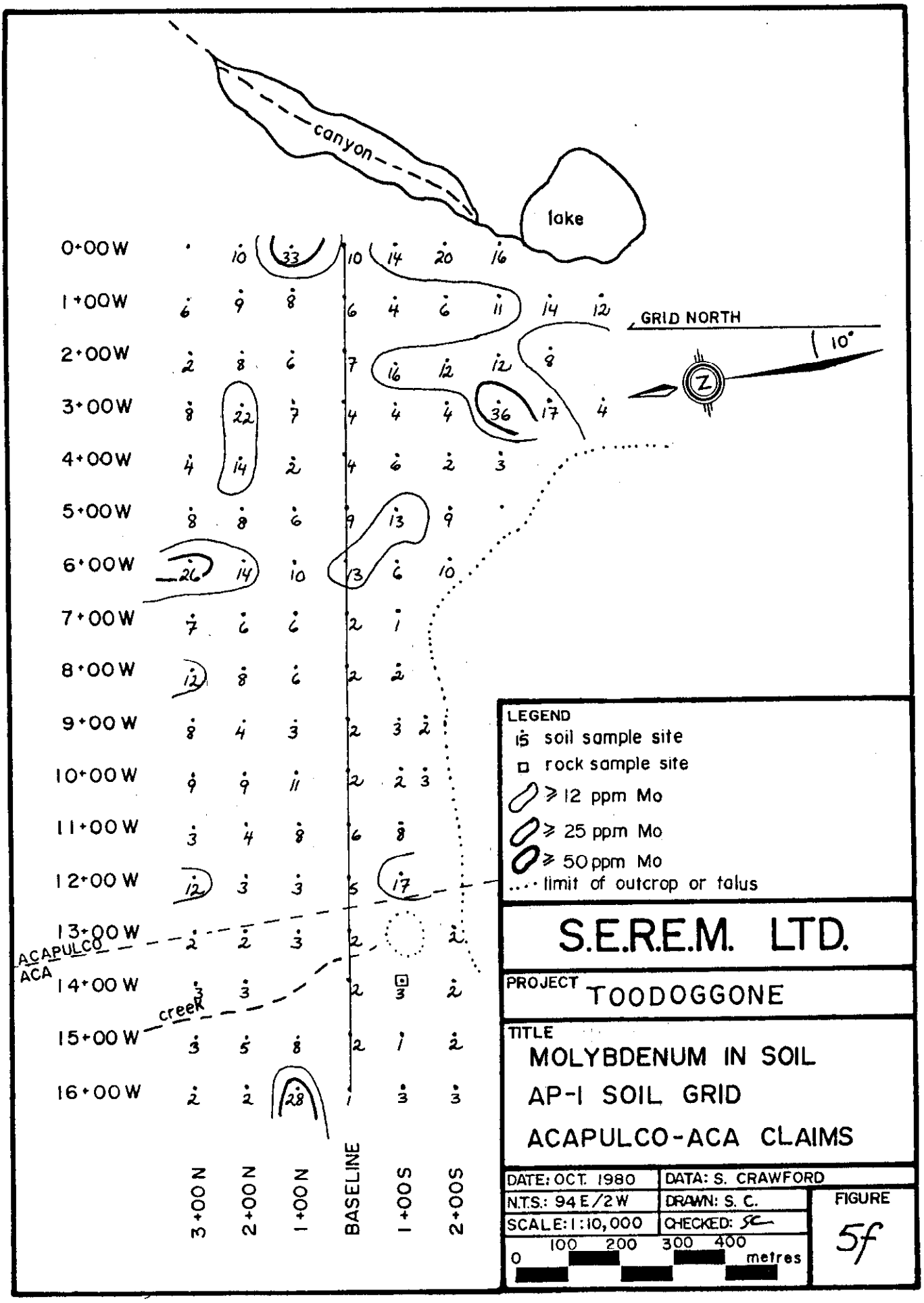
8+00W
9+00W
10+00W
11+00W
12+00W
13+00W
14+00W
15+00W
16+00W
3+00N
2+00N
1+00N
BASELINE
1+00S
2+00S
ACAPULCO
ACA
creek
LEGEND
soil sample site
rock sample site
≥ 200 ppm Zn
≥ 400 ppm Zn
≥ 800 ppm Zn
limit of outcrop or talus
S.E.R.E.M. LTD.
PROJECT TOODOGGONE
TITLE
ZINC IN SOIL
AP-1 SOIL GRID
ACAPULCO-ACA CLAIMS
DATE: OCT. 1980
DATA: S. CRAWFORD
N.T.S.: 94 E/2W
DRAWN: S. C.
SCALE: 1:10,000
CHECKED: sc
0 100 200 300 400 metres
FIGURE
5e


canyon
lake
GRID NORTH
10°
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2+00W
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10+00W
11+00W
12+00W
13+00W
14+00W
15+00W
16+00W
ACAPULCO
ACA
creek
3+00N
2+00N
1+00N
BASELINE
1+00S
2+00S
LEGEND
soil sample site
rock sample site
≥ 12 ppm Mo
≥ 25 ppm Mo
≥ 50 ppm Mo
limit of outcrop or talus
S.E.R.E.M. LTD.
PROJECT TOODOGGONE
TITLE
MOLYBDENUM IN SOIL
AP-1 SOIL GRID
ACAPULCO-ACA CLAIMS
DATE: OCT. 1980
DATA: S. CRAWFORD
N.T.S.: 94 E/2W
DRAWN: S. C.
SCALE: 1:10,000
CHECKED: SC
0 100 200 300 400 metres
FIGURE
5f

TABLE IIa. ROCK GEOCHEMICAL ANALYSES

Sample No.	Number on Map (Fig. 3)	Rock Type	Gold ppb	Silver	Copper	Lead	Zinc
					ppm		
PUL-4W-1S	1	Quartz chalcopyrite vein in potassic-altered granite	120	50.0	20,500	159	5490
HA-1-80-8	2	Skarn with manganese minerals	5	3.0	13	650	2100
SC-48-80-1	6	Quartz pyrite vein in intrusive	260	6.5	508	1230	345
GP-17-80-4R	12	Potassic, argillic-altered volcanic; disseminated pyrite	5	1.1			
GP-17-80-7R	13	"	5	2.3			
GP-17-80-10R	14	Volcanic with disseminated pyrite	5	1.0	193		
GP-16-80-R	21	Quartz carbonate vein in volcanic	40	5.0	61	11	22
SC-43-80-7	22	Quartz vein in intrusive	10	1.5		92	67
SC-43-80-10	23	"	5	6.8	168	155	1940
SC-22-80-1	32	Intrusive with disseminated pyrite and chalcopyrite	10	1.0	390		
HA-1-80-14	35	Rhodonite vein	5	2.5	10	92	880

TABLE IIb. ASSAYS

Gold		Silver		Copper	Lead	Zinc	Molyb-denum
Oz/Ton	Gm/Tonne	Oz/Ton	Gm/Tonne		%		
.009	.30	8.15	279.4	2.580	.82	.11	
.002	.07	.09	3.1	.068			.003
.003	.10	1.49	51.1	.465			
.002	.07	4.28	146.7	2.480			.010
.001	.03	.09	3.1	.171			.004
.002	.07	.14	4.8	.536			.008
.002	.07	1.07	36.7	1.350			.004
.031	1.06	5.99	205.3	5.410	.76	.41	.002
.003	.10	.40	13.7	1.080			.038
.049	1.68	4.20	144.0	.172	.35	.22	
.010	.34	2.09	71.7	1.482	.36	.76	
.001	.03	.15	5.1	.082	.68	.23	
.017	.58	.88	30.2	.003	.03	.08	
.001	.03	.08	2.7	.002	.01	.01	
.003	.10	.10	3.4	.034	.01	.01	
.002	.07	.26	8.9			.008	
.002	.07	.03	1.0	.022	.01	.068	
2.900	99.41	10.80	370.2	22.900	.06	.99	
.465	15.94	2.12	72.7	2.900	.03	.08	
.036	1.23	53.40	1830.6	4.700	4.69	1.70	
.002	.07	.69	23.7	1.800		.097	
.075	2.57	10.10	346.2	3.060			
.535	18.34	13.40	459.4	.004	.04	.06	

TABLE IIb. ASS.

Sample No.	Number on map (Fig. 3)	Rock Type	Gold Oz/Ton	Gm/Tonn
SC-48-80-4	7	Magnetite chalcopyrite vein	.009	.30
SC-48-80-7	8	Intrusive with chalcopyrite in fractures	.002	.07
SC-48-80-8	9	"	.003	.10
SC-48-80-10	10	"	.002	.07
SC-48-80-11	11	"	.001	.03
GP-17-80-2R	15	Intrusive with disseminated chalcopyrite	.002	.07
GP-17-80-5R	16	"	.002	.07
GP-17-80-19R	19	Chalcopyrite-bornite-sphalerite vein	.031	1.06
GP-17-80-20R	20	Quartz vein, minor chalcopyrite in volcanic	.003	.10
SC-27-80-7	24	Quartz chalcopyrite vein	.049	1.68
SC-27-80-9	25	"	.010	.34
SC-27-80-16	26	Quartz vein, minor chalcopyrite	.001	.03
SC-43-80-4	27	Quartz vein, pyrite and specularite	.017	.58
SC-43-80-6	28	"	.001	.03
SC-43-80-9	29	"	.003	.10
SC-43-80-12	31	Grey quartz vein	.002	.07
AP-14W-1S	33	"	.002	.07
HA-1-80-9	3	Skarn with chalcopyrite	2.900	99.41
HA-1-80-11	4	Skarn with bornite	.465	15.94
HA-1-80-13	5	Magnetite with chalcopyrite and galena	.036	1.23
GP-17-80-6R	17	Sheared volcanic with chalcopyrite and molybdenite	.002	.07
GP-17-80-15R	18	Quartz vein in volcanic with chalcopyrite, chlorite and epidote	.075	2.57
SC-43-80-11	30	Quartz vein in intrusive with pyrite	.535	18.34

TABLE IIb. ASSAYS (Continued)

Sample No.	Number on map (Fig. 3)	Rock Type	Gold Oz/Ton	Gold Gm/Tonne	Silver Oz/Ton	Silver Gm/Tonne	Copper %	Lead %	Zinc %	Molybdenum
HA-1-80-5	34	Skarn with galena	.001	.03	.16	5.5	.007	.41	.10	
HA-1-80-12	36	Skarn with malachite	.054	1.85	4.27	146.4	1.770	.01	.24	
HA-1-80-3	37	Skarn with galena	.001	.03	.12	4.1	.006	.07	.12	
HA-1-80-2	38	Intrusive with malachite	.001	.03	.08	2.7	.122	.01	.16	.004
SC-48-80-15	39	Intrusive with chalcopyrite, molybdenite fracture filling	.010	.34	2.40	82.3	2.150			2.010
SC-48-80-16	40	Intrusive with chalcopyrite fracture filling	.001	.03	1.51	51.8	.193			.004
SC-48-80-17	41	Intrusive with chalcopyrite fracture filling	.002	.07	.10	3.4	.142			.003
SC-48-80-18	42	Quartz chalcopyrite in intrusive	.001	.03	.16	5.5	.166			.003
SC-48-80-19	43	Intrusive with chalcopyrite fracture filling	.004	.14	.27	9.3	.047			
SC-48-80-24	44	Intrusive with galena	.027	.93	1.29	44.2		.25		
HA-2-80-13	45	Skarn with chalcopyrite and malachite	.980	27.4	32.50	1114.1	14.050	.11	.09	

9. INTERPRETATION

Gold, silver, copper, lead, zinc and molybdenum analyses for stream silt and contour soil samples are individually plotted on Figures 4a to 4f respectively. Circles are completely blackened for anomalous values and partially for threshold values.

Several silt samples returned anomalous gold values, ranging up to 800 ppb gold. A few were slightly anomalous in silver, copper, lead and zinc.

Anomalous contour traverse soils correspond to areas of visible sulphide mineralization in rocks either on or upslope from the contour traverses.

Results from the soil grid are plotted on Figures 5a to 5f for gold, silver, copper, lead, zinc and molybdenum respectively. The values are contoured.

The highest values obtained from the grid are 105 ppb gold, 3.4 ppm silver, 488 ppm copper, 124 ppm lead, 560 ppm zinc and 36 ppm molybdenum. Contours indicate strong 120-125^{o} and 010^{o} trends. The 120-125^{o} trend is within the 100-140^{o} range of mineralized fractures noted in outcrop (Figure 3). The 010^{o} trend is perpendicular to slope and may in part be an effect of downslope dispersion; it may also indicate another fracture system.

Rock geochemical analyses and assays are listed in Table II with corresponding rock descriptions. Sample localities are plotted on Figure 3. Several chalcopyrite-bearing samples have significant amounts of gold and silver.

10. CONCLUSIONS AND RECOMMENDATIONS

Visible sulphide mineralization and precious metal values warrant a more detailed investigation of the property. Extensive fracture-controlled alteration and sulphide deposition indicate that a mineralizing hydrothermal system was active. The skarn zone may also contain economic quantities of sulphides.

Detailed prospecting and trenching is required to delineate mineralized areas. A systematic study of fractures should be carried out to determine mineralization trends. Close-spaced sampling of anomalous areas on the soil grid and extension of the grid to the north and west is recommended.

11. REFERENCES

Gabrielse, H.; Dodds, C.J.; Mansy, J.L.; and Eisbacher, G.H. 1975: Geology of Toodoggone River (94E) and Ware West-half; G.S.C. Open File 483, Geological Survey of Canada.

Assessment Reports 1802, 5834, 6762; British Columbia Ministry of Energy, Mines and Petroleum Resources.

GEOLOGICAL AND GEOPHYSICAL REPORT

ON THE

PUL, SUN AND STAR CLAIMS
(ACAPULCO GROUP)

TOODOGGONE RIVER AREA

Omineca Mining Division, B.C.

94E-2W

(57° 12′ N. Lat., 126° 57′ W. Long.)

by

Mohan R. Vulimiri, B.Sc.(Hons.), M.Sc.

and

Grant F. Crooker, B.Sc., F.G.A.C.

for

SEREM INC
(Owners and Operators)

October 1985

TABLE OF CONTENTS

ILLUSTRATIONS

INTRODUCTION

General

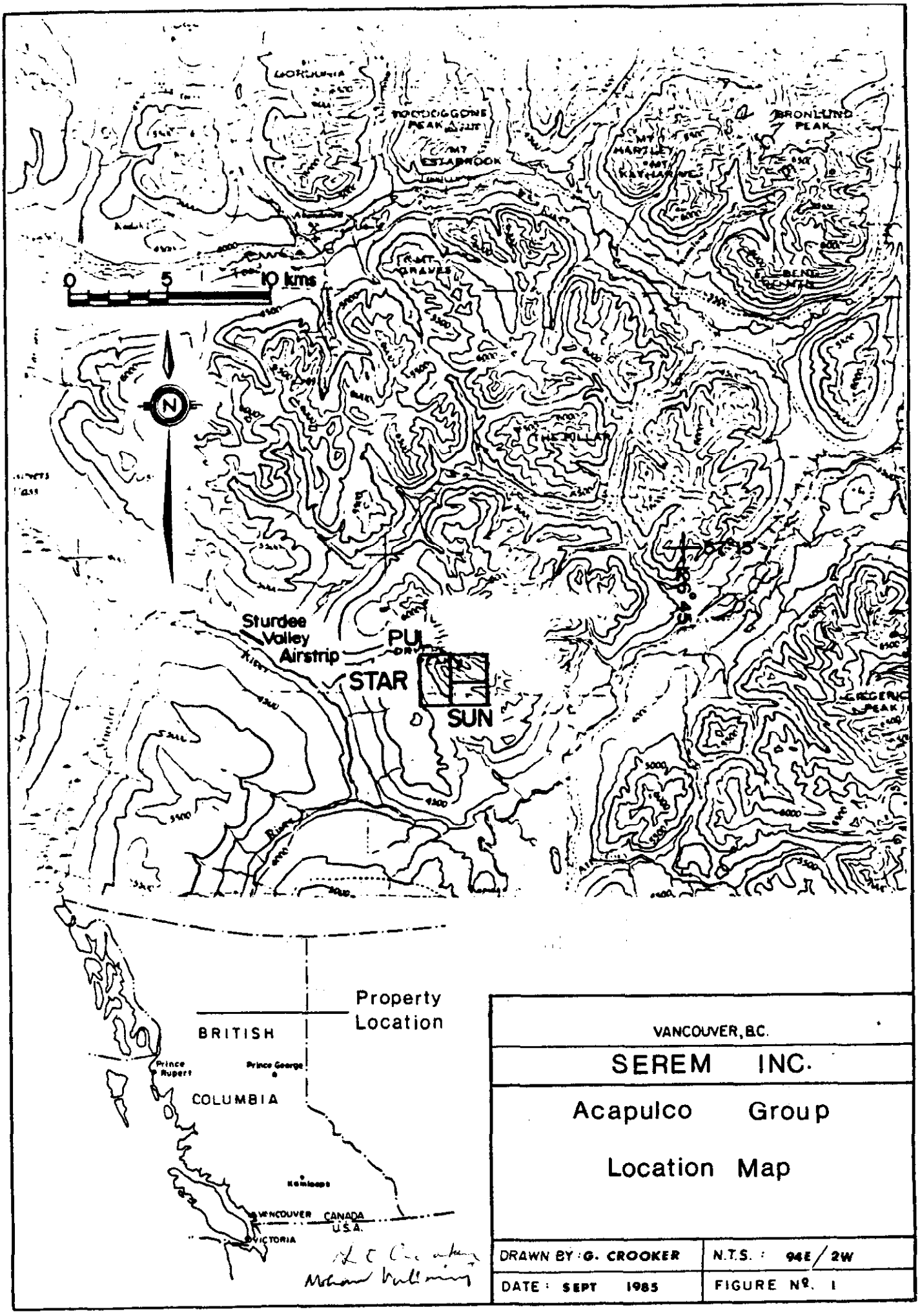
Field work was carried out on the property by Mohan R. Vulimiri, Grant F. Crooker and Sheila A. Keilbach, geologists from July 27th through August 1st, 1985.

Geological mapping, prospecting and VLF-EM survey were carried out on the claims.

Location and Access

The Acapulco Claim Group is located at 57° 12′ N. latitude and 126° 57′ W. longitude in the Sturdee River - Finlay River area, Toodoggone River Map Sheet, 94E-2W, Omineca Mining Division (Figures 1 and 2)

Access to the property is by airplane from Smithers to Sturdee Airstrip, a distance of 280 kilometres, and from Sturdee Airstrip to the property by helicopter, a distance of 6 kilometres.



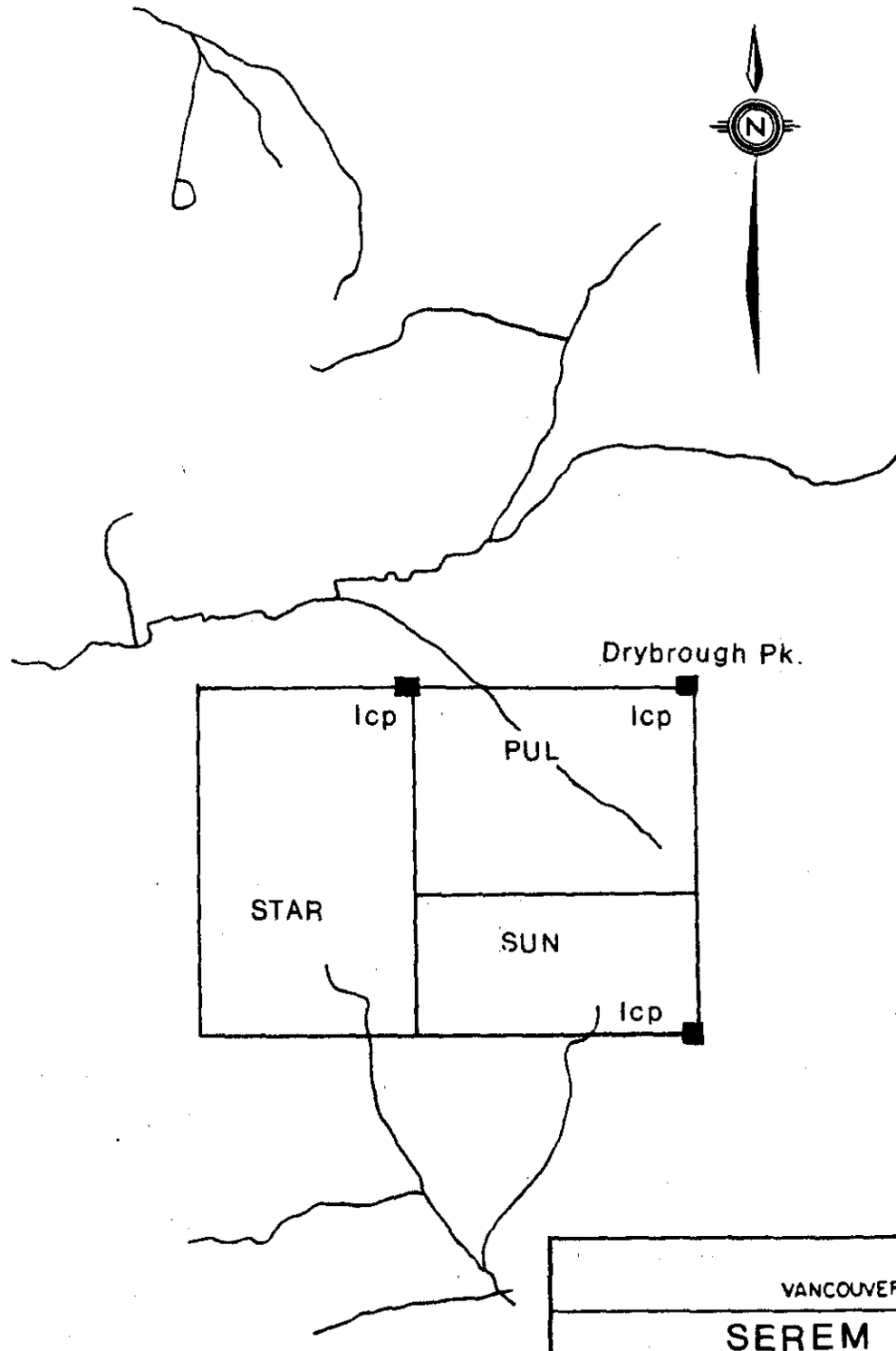
VANCOUVER, B.C.

SEREM INC.

Acapulco Group

Location Map

DRAWN BY: G. CROOKER	N.T.S.: 94E/2W
DATE: SEPT 1985	FIGURE Nº. 1



VANCOUVER, B.C.

SEREM INC.

Acapulco Group

Claim Map

DRAWN BY : G. CROOKER	N.T.S. : 94E/2W
DATE : SEPT. 1985	FIGURE Nº. 2

Physiography

Topography is moderately rugged; elevation ranges from 1400 metres to 2065 metres above sea level. Outcrop patterns are variable with best exposures along steep mountain ridges, along creeks and gullies. Rest of the claim group is mostly drift covered.

Property and Claim Status

The claims (Figure 2) are owned and operated by Serem Inc., Box 11175, Royal Centre, 1055 W. Georgia Street, Vancouver, B.C. They consist of the following:

Claim	Units	Record No.	Record Date
Sun	8	3684	26 March 1981
Star	15	3683	26 March 1981
Pul	12	3114	15 August 1980

Property History

Previous work in the area consists of exploration for copper and molybdenum by Cordilleran Engineering in 1968 and by Minas de Cerro Dorado in 1973

Work performed in 1980 by Serem Ltd. now Serem Inc. included silt sampling of the streams draining the property, grid soil

sampling, preliminary geological mapping and prospecting.

1982 program by Serem Ltd evaluated the mineral occurrences by geological mapping and detailed prospecting. For detailed results of the above two programs 1980 and 1982 assessment reports can be referred to.

The purpose of the 1985 program was to delineate the skarn zones with VLF-EM Surveys and detailed geological mapping, and evaluate the economic potential with respect to their geological setting.

EXPLORATION PROCEDURE

Work in 1985 consisted of VLF electro-magnetic surveying and detailed geological mapping. The old was re-established as closely as possible to the original and additional lines were ran. A total of 1.3 kilometres of baseline and 12.4 kilometres of crosslines were established.

Geological mapping with prospecting was performed at a scale of 1:5000 and resulting data is shown on Figures 3,4 and 5.

Twelve and one-half kilometres of VLF-EM survey were carried out, with reading taken every 20 metres along lines. A Geonics EM-16 was used as a receiver, with NLK, Seattle, Washington,

24.8 Khz the transmitter. This transmitter was used due to its good signal strength and orientation to the geological structures.

The EM-16 measures In-phase and quadrature components of vertical magnetic field as a percentage of horizontal primary field (that is, tangent of the tiltangle and ellipticity). Both values are given in percentages. Field procedure requires to always face the same direction when taking readings. When appraching a conductor the readings will be positive, and when leaving a conductor the readings will be negative. The EM-16 is rotated in the vertical plane until a minimum signal is obtained. This reading in the "In-phase" and gives the tiltangle in degrees and the tangent of the tiltangle expressed as percent. Once this minimum signal is obtained, the "Quadrature" knob is rotated until the signal minimum is obtained. This reading is approximately the ratio of the vertical secondary field to the horizontal primary field.

The VLF-EM can pick up conductors caused by electrolyte-filled fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological boundaries as well as sulphide bodies.

The In-phase and Quadrature data were plotted as percentages on Figure 6 at a scale of 1:2500. The Fraser filter method was

then applied to the In-phase data, and the results plotted at a scale of 1:2500 on Figure 7.

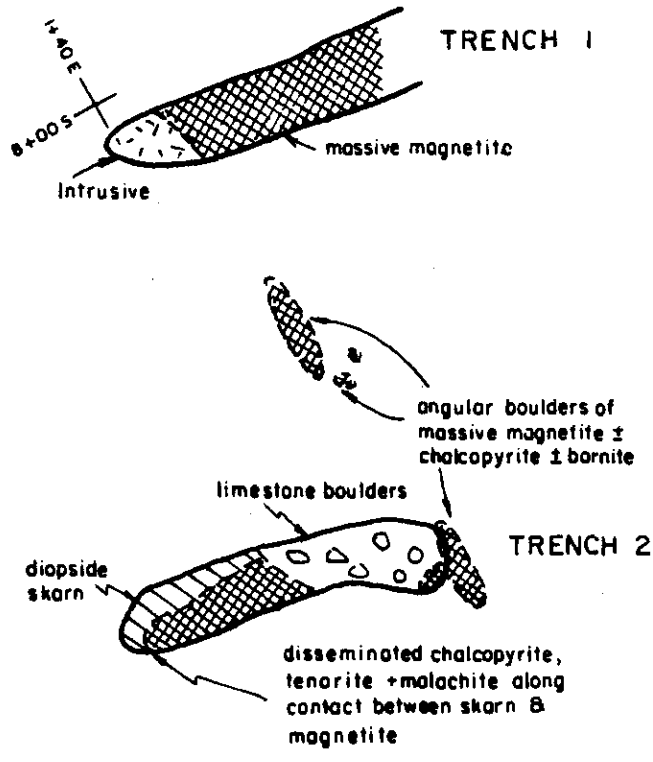
GEOLOGY

The claims are underlain by Permian Asitka Group and Lower Jurassic Omineca intrusions.

The Permian Asitka Group consists of mainly recrystallized limestone and marble with minor interbeds of volcanic rocks (feldspar porphyritic andesite). It outcrops along a ridge in the middle of the claim group (Figure 3). The units strike approximately NW-SE and dips moderately (around 30°) to the east.

Detailed mapping on the claim group shows that the Asitka carbonates are underlain and intruded by the Omineca intrusive rocks consisting of quartz diorite to quartz monzonite with minor feldspar porphyritic phases.

Skarn zones appear to be present at the contact of the intrusive rocks and limestones. The skarn zones are formed by contact metasomatism of intrusive rocks and carbonates. The marbles and recrystallized limestones are caused by contact metamorphism.



N

SEREM INC.

ACAPULCO GROUP
SUN - STAR CLAIMS

MAP OF HAND TRENCHES

OMINECO M.D., B.C.

SCALE 1:100

0 1 2 3 4 5 Metres

Mohan Vulimiri

M. E. Crooker

WORK BY : GRANT CROOKER & MOHAN VULIMIRI	
DRAWN BY : M. VULIMIRI	N.T.S. 94E-2W
DATE : SEPT. 1985	FIGURE Nº. 5

CHONG

Skarns are exposed at the contact of the limestone with the intrusions all around the ridge at lower elevations on the claim group (Figure 3). Minor skarns along with some quartz dioritic and quartz monzonitic intrusions and lamprophyre dykes are also observed on top of the ridge suggesting the intrusion has an undulating contact with apophyses and embayments (Figure 4).

The skarns appear to be related to predominantly 160°/70°E fractures. The chalcedony fracture fillings (possibly excess silica left over during the skarn-forming reactions) also are related to the same fractures. Tracing of these fractures will possibly lead to skarns hidden within the embayments of the intrusion. Minor skarns also occur along the bedding planes of the limestone unit.

The skarns primarily consist of magnetite, diopside, grossular garnet and epidote near the intrusion and away from the intrusion they consist of diopside, epidote, wollasonite with minor garnet.

The intrusion exhibits extensive hydrothermal alteration in the vicinity of the skarns. It is completely bleached of mafic minerals with intense k-feldspar alteration and quartz veining. Where exposed, tracing of the alteration zones within the intrusion towards the carbonates lead to skarns.

MINERALIZATION

Three types of mineralization are present on the claim group. They are the following:

1. Mineralization consisting of chalcopyrite, bornite, malachite, pyrite, pyrrhotite, magnetite, minor galena and sphalerite with gold values is associated with skarn zones. Grab samples from this type of mineralization are assayed for gold and silver. Assays are shown in the table below.

Sample	Ag oz/ton	Au oz/ton	Location	Mineralogy
25446	32.0	0.50	7+00E;1+30S	Skarn (Cpy. & Mal.)
25447	0.1	<0.01	Hand Trench-2	Skarn (Magnetite)
25448	1.8	0.78	Hand Trench-2	Skarn (Mag.,Cpy.& Mal.)
25449	0.5	0.75	Hand Trench-2	Skarn (Mag.,Cpy.& Mal.)
25450	0.8	0.21	Hand Trench-2	Skarn (Malachite.)

2. The second type of mineralization consists primarily of galena with minor sphalerite in narrow veinlets in limestone. This does not appear to have much potential. Several samples were assayed for silver and gold in 1982.

3. Chalcopyrite and molybdenum mineralization with associated K-feldspar alteration occurs in the quartz monzonitic phase of the intrusion.

GEOPHYSICS

The Fraser filter method was applied to all In-phase readings to allow contouring of the data. The results were contoured at 10 percent intervals.

Two conductors were delineated by the VLF electro-magnetic survey.

Conductor A consists of two sub-conductors extending from L-3N;1+20E to L-10S;0+80E, a distance of 1200 metres. This is a very strong conductor, delineating a contact zone (skarn?) between the intrusion and the overlying limestone unit. Skarn outcrops are observed at some locations, where exposed, along the conductor.

Conductor B consists of a weak to moderate conductor extending from L-3N;5+80E to L-2S;6+00E. This corresponds to a feldspar porphyry intrusive dyke and related skarn zones (Figure 3, 6 & 7).

POTENTIAL

Assays of samples with skarn mineralogy with even small amounts of chalcopyrite and other copper-bearing minerals show significant amounts of gold (upto 0.78 oz/ton).

Trenching (Figure 5) in an area of magnetite skarn shows that samples with only magnetite do not carry any gold values, but samples with magnetite and copper-bearing minerals carry significant gold values. Samples containing chalcopyrite, bornite, galena and sphalerite collected from skarns in the northern portion of the claim group also carry significant gold values.

The above results show that skarn zones are the most important in terms of gold values. The west contact zone of limestone and intrusion was traced along approximately north-south by geophysics (VLF-EM) and to a minor extent by geology and geochemistry (1980 report) for a distance of 1200 metres, and along east-west direction under the ridge by geological methods and interpretation for a distance of about 900 metres (Figures 3,4,6 & 7).

RECOMMENDATIONS

The western contact of the limestone and intrusion can be systematically trenched from known showings with a bulldozer and a back-hoe, because of gentle topography and accessibility fron Sturdee Airstrip.

Drilling can also be initiated at the same time uphill under

the overlying recrystallized limesone and marble, again aystematically delineating the known showings.

Respectfully submitted

Mohan R. Vulimiri B.Sc.(Hons.), M.Sc.

Grant F. Crooker B.Sc., F.G.A.C.

REFERENCES

Crawford, S.A., & Vulimiri, M.R. (1980) - Geochemical & Prospecting Report on the Acapulco, Aca & Pul claims.

Reeve, A.P. (1968) - Geological Report on the Riga Claim Group.

Stammers, M.A. (1968) - Geological, Geochemical and Trenching Report on the Acapulci Group.

CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, B.Sc., Geology of Upper Bench Road, Keremeos, in the Province of British Columbia, hereby certify as follows:

1. That I graduated from the University of British Columbia in 1972 with a Bachelor of Science degree in Geology.

2. That I have prospected and actively pursued geology prior to my graduation and have practised my profession since 1972.

3. That I am a member of the Canadian Institute of Mining and Metallurgy.

4. That I am a Fellow of the Geological Association of Canada.

5. That I have no direct or indirect interest in the property

Dated at Vancouver, B.C. this 6th day of November, 1985.

Grant Crooker, B.Sc., F.G.A.C.

CERTIFICATE OF QUALIFICATIONS

I, Mohan R. Vulimiri, of 1120 Heywood Street, North Vancouver, B.C., hereby certify that:

1. I am a graduate with a B.Sc. (Hons.) degree form the Indian Institute of Technology, Kharagpur and a M.Sc. (Economic Geology) degree from the University of Washington.

2. I am involved in mineral exploration in British Columbia since 1970 and I have acted in responsible positions since 1974.

3. I have no direct or indirect interest in the property

Dated at Vancouver, B.C., this 6th day of November, 1985.

Mohan R. Vulimiri

MIN-EN LABORATORIES LTD.
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

TO: Mohan Vulimiri PROJECT No. _____

DATE AUGUST 17, 1985

File No. SK-4

SAMPLE No.	Ag oz/ton	Au oz/ton		
25446	32.0	0.50		
25447	0.1	<0.01		
25448	1.8	0.78		
25449	0.5	0.75		
25450	0.8	0.21		

MIN-EN Laboratories Ltd.

CERTIFIED BY Randy Bloskovich

DETAILED COST STATEMENT

Wages

1 Geologist, G. Crooker
8 days at $300.00 per day.....$2400.00
July 27 - 31, August 1, 13, 14, 1985

1 Geologist, M.R. Vulimiri
10 days at $300.00 per day $3000.00
July 27 - 31, August 1, 11, 13, 14, 1985

1 Geologist, S.Keilbach
6 days at $200.00 per day $1200.00
July 27 - 31, August 1, 1985

Camp Costs (include groceries, camp supplies, camp equipment, radio, expediting, etc.

G. Crooker, 6 days at $50.00 per day.....$300.00
July 27 - 31, August 1, 1985

M.R. Vulimiri, 6 days at $50.00 per day...$300.00
July 27 - 31, August 1, 1985

S. Keilbach, 6 days at $50.00 per day.....$300.00
July 27 - 31, August 1, 1985

Transportation

Helicopter (Hughes 500D)
2.1 Hrs charter at $450.00 per Hr.....$945.00
2.1 Hrs fuel at $115.00 per Hr.....$241.00

Fixed Wing* (Smithers to Sturdee Strip)
6 days at $72.50 per day.....$435.00
July 27 - 31, August 1, 1985

Mobilization & Demobilization
6 days at $78.25 per day
July 27 - 31, August 1, 1985

Supplies (flagging, topofil thread, etc.).....$50.00

Instrument Rental

Geonics EM-16R.....$150.00
6 days at $25.00 per day
July 27 - 31, August 1, 1985

Assays

5 rock samples (Au, Ag) at $22.00.....$110.00

Preparation of Report
Secreterial, draughting, reproduction, etc.$700.00

$10,600.00

* Mobilization and demobilization costs, and fixed wing costs are pro-rated over 7 projects in the Toodoggone Area covering 44 days

FIELD PROCEDURE

Orientation & Taking a Reading

The direction of the survey lines should be selected approximately along the lines of the primary magnetic field, at right angles to the direction to the station being used. Before starting the survey, the instrument can be used to orient oneself in that respect. By turning the instrument sideways, the signal is minimum when the instrument is pointing towards the station, thus indicating that the magnetic field is at right angles to the receiving coil inside the handle.(Fig.11).

To take a reading, first orient the reference coil (in the lower end of the handle) along the magnetic lines.(Fig.12) Swing the instrument back and forth for minimum sound intensity in the speaker. Use the volume control to set the sound level for comfortable listening. Then use your left hand to adjust the quadrature component dial on the front left corner of the instrument to further minimize the sound. After finding the minimum signal strength on both adjustments, read the inclinometer by looking into the small lens. Also, mark down the quadrature reading.

While travelling to the next location you can, if you wish, keep the instrument in operating position. If fast changes in the readings occur, you might take extra stations to pinpoint accurately the details of anomaly.

The dials inside the inclinometer are calibrated in positive and negative percentages. If the instrument is facing 180^{o} from the original direction of travel, the polarities of the readings will be reversed. Therefore, in the same area take the readings always facing in the same direction even when travelling in opposite way along the lines.

The lower end of the handle, will as a rule, point towards the conductor. (Figs.13 & 14) The instrument is so calibrated that when approaching the conductor, the angles are positive in the in-phase component. Turn always in the same direction for readings and mark all this on your notes, maps, etc.

THE INCLINOMETER DIALS

The right-hand scale is the in-phase percentage(ie.Hs/Hp as a percentage). This percentage is in fact the tangent of the dip angle. To compute the dip angle simply take the arctangent of the percentage reading divided by 100. See the conversion graph on the following page.

The left-hand scale is the secant of the slope of the ground surface. You can use it to "calculate" your distance to the next station along the slope of the terrain.

(1) Open both eyes.

(2) Aim the hairline along the slope to the next station to about your eye level height above ground.

(3) Read on the left scale directly the distance necessary to measure along the slope to advance 100 (ft) horizontally.

We feel that this will make your reconnaissance work easier. The outside scale on the inclinometer is calibrated in degrees just in case you have use for it.

PLOTTING THE RESULTS

For easy interpretation of the results, it is good practice to plot the actual curves directly on the survey line map using suitable scales for the percentage readings. (Fig.15) The horizontal scale should be the same as your other maps on the area for convenience.

A more convenient form of this data is easily achieved by transforming the zero-crossings into peaks by means of a simple numerical filtering technique. This technique is described by D.C. Fraser in his paper "Contouring of VLF-EM Data", Geophysics, Vol. 34, No. 6. (December 1969)pp958-967. A reprint of this paper is included in this manual for the convenience of the user.

This simple data manipulation procedure which can be implemented in the field produces VLF-EM data which can be contoured and as such provides a significant advantage in the evaluation of this data.

COMINCO LTD.

EXPLORATION
NTS 94 E/2W

WESTERN DISTRICT
June 1, 1978

ASSESSMENT REPORT

GEOLOGICAL MAPPING AND SOIL GEOCHEMICAL

WORK ON THE

AMIGO PROPERTY

(AMIGO CLAIM; 4 UNITS)

TOODOGGONE RIVER AREA, OMINECA M.D.

LATITUDE: N57°12'

LONGITUDE: W126°57'

WORK PERFORMED: August 13-14, 1977

REPORT BY: J.C. CAELLES

IN THE MATTER OF THE B.C. MINERAL ACT

AND IN THE MATTER OF A GEOLOGICAL AND GEOCHEMICAL PROGRAMME

CARRIED OUT ON MINERAL CLAIM AMIGO (4 UNITS)

ON THE AMIGO PROPERTY

LOCATED 75 KM NORTHWEST OF JOHANSON LAKE IN THE OMINECA MINING DIVISION

OF THE PROVINCE OF BRITISH COLUMBIA MORE PARTICULARLY

N.T.S. 94 E/2W

AFFIDAVIT

I, JUAN C. CAELLES, OF THE CITY OF VANCOUVER IN THE PROVINCE OF BRITISH COLUMBIA, MAKE OATH AND SAY:

1. THAT I AM EMPLOYED AS A GEOLOGIST BY COMINCO LTD. AND, AS SUCH, HAVE A PERSONAL KNOWLEDGE OF THE FACTS TO WHICH I HEREINAFTER DEPOSE;

2. THAT ANNEXED HERETO AND MARKED AS "EXHIBIT A" TO THIS MY AFFIDAVIT IS A TRUE COPY OF EXPENDITURES INCURRED ON GEOLOGICAL MAPPING AND/OR SOIL GEOCHEMICAL SURVEY ON THE MINERAL CLAIM AMIGO (4 UNITS);

3. THAT THE SAID EXPENDITURES WERE INCURRED BETWEEN THE 13TH OF AUGUST AND THE 14TH OF AUGUST, 1977 FOR THE PURPOSE OF MINERAL EXPLORATION ON THE ABOVE NOTED CLAIMS.

Juan C. Caelles

JUAN C. CAELLES

AMIGO GROUP

1977 ASSESSMENT REPORT

TABLE OF CONTENTS

ATTACHMENTS:

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT
June 1, 1978

AMIGO GROUP

ASSESSMENT REPORT

1. SUMMARY AND CONCLUSIONS

The 4-unit Amigo group exhibits Zn/Cu(Pb)Ag, skarn-type mineralization occurring at a quartz monzonite-limestone contact.

A reconnaissance soil geochemical survey outlined several Cu/Zn/Pb anomalous zones, some of them still open to the west.

Expenditures incurred to date are $2,185.01.

2. PROPERTY

The Amigo group consists of 4 units staked by Cominco in August 1977. The property was previously staked by Amax in 1972 as the DUMAC Group - it was not registered. Minas de Cerro Dorado owned the Riga Group, a porphyry copper-moly prospect located 2 km to the northeast; the property was abandoned after mapping, soil geochemistry and magnetometer surveys were carried out.

3. LOCATION

Latitude: 57°12'N Longitude: 126°57'W NTS: 94E/2W

The property is located in northern-central B.C., about 2 km southwest of Drybrough Peak and 12 km north-northwest of the northern end of Thutade Lake, in the Omineca M.D. (Plate 1). Access is by fixed wing aircraft from Smithers to Johanson Lake airstrip (210 km) and by helicopter from Johanson Lake to the property (75 km). Road access from the south is now within 55 km and eventually will be within 5 km.

Topographic relief is moderate over most of the property, with elevations between 4900 and 6200 feet. It lies mostly above tree line and is covered by moss and alpine grass. Water for exploration is available in the summer months.

4. GEOLOGY

Regional Geology

The region is underlain by six major rock units:

Tertiary and Upper Cretaceous

Sustut Group: non-marine conglomerate, shale, siltstone, tuff, minor fetid limestone.

Lower and/or Middle Jurassic

"Toodoggone" volcanic rocks: dacite, latite, rhyolite, tuff breccia, flows.

Lower Jurassic (?)

Hazelton Group: volcanic conglomerate, breccia, lahar; pink feldspar porphyry dykes.

Upper Triassic

Takla Group: plagioclase porphyry, augite porphyry, tuff, agglomerate; limestone.

Upper Paleozoic

Asitka Group: chert, argillite, limestone, greenstone.

Intrusive Rocks

Lower Jurassic (?) quartz monzonite and granodiorite.

Only recrystallized Asitka limestone and quartz monzonite underlie the Amigo claims.

Local Geology

The claims are underlain by quartz monzonite of possibly Lower Jurassic age, that includes a limestone unit of the Upper Paleozoic Asitka Group (Plate 2). The limestone is a unit at least 150 m thick, varying from very thickly-bedded (> 1 m) to medium-bedded (10-30 cm) and unfossiliferous. It has recrystallized to a coarse-grained, light grey, pure limestone. The intrusive body near the contact with the limestone has a quartz monzonite -quartz diorite composition. One porphyritic monzonite dyke, about 1.5-2.0 m wide, was observed in the proximity of sample JCC-415 (Plate 2).

5. MINERALIZATION

Traces of galena, sphalerite, chalcopyrite and malachite stainings occur in the exposed skarn zone. The intrusive-limestone contact is mostly covered by soil and moss and consequently a reconnaissance soil survey was conducted over the inferred contact. The limestone, where exposed, does not exhibit any sign of mineralization. The intrusive body is completely barren a few meters from the contact. However, a similar intrusive rock approximately 2 km to the northeast contains disseminated Cu/Mo mineralization on the former Riga claims, where mapping, soil geochemistry and magnetic surveys were carried out.

6. GEOCHEMISTRY

Reconnaissance soil geochemical sampling was carried out over the inferred intrusive-limestone contact, in a grid approximately 600 x 600 m, at 50 m intervals. All soil samples were collected from B soil horizon (about 25 cm below surface); the samples were screened and the -80 mesh fraction analysed. The samples were processed and analysed at Cominco's laboratory

3.

(Vancouver) according to the following methods:

1. Copper, lead, zinc and silver were done by nitric acid digestion and atomic absorption determination;
2. Molybdenum analyses were done by pyrosulphate fusion followed by thiocyanate colourimetric determination;
3. Gold analyses were done by aqua regia digestion followed by organic extraction and atomic absorption.
4. Tungsten analyses were done by pyrosulphate fusion followed by colourimetric determinations.

The limits of detection are:

Element	Limit of detection
Cu	1 ppm
Pb	3 ppm
Zn	1 ppm
Ag	0.4 ppm
Mo	2 ppm
W	2 ppm

The survey indicated several anomalous zones in Zn, Cu and Pb, the largest of which is about 250 x 100 m (Plates 3, 4 and 5). These soil geochemical anomalies were the reason for staking.

In Plate 3 the Zn soil values have been plotted. It is estimated that the data can be interpreted as follows, based on the cumulative probability plot:

Anomalous	High Background	Low Background
>450	$450 \leq x \leq 140$	<140

The reconnaissance sampling outlines at least three anomalous zones, the largest about 150 x 100 m enclosed by the 1500 ppm Zn contour line situated in the central part of the grid. The northwestern anomaly is open to the north and west.

The Cu values are plotted in Plate 4. The cumulative probability plot indicates a threshold value of 135 ppm. An anomalous zone, encompassed by the 200 ppm contour line and approximately 200 x 100 m, is delineated with a northerly trend and roughly coextensive with the Zn central anomalous zone. Another anomaly on the northwestern corner, outlined by two samples, is still open to the north and west.

The Pb values are represented in Plate 5. The cumulative probability plot suggests the following values.

Anomalous	High Background	Low Background
>210	$210 \leq x \leq 35$	< 35

Small anomalous zones, some still open, are outlined.

Report by: J.C. Caelles
Geologist

Endorsed by: D.L. Cooke, P. Eng.
Senior Geologist

Approved for Release by: G. Harden
Manager, Exploration
Western District

JCC/pcd

AMIGO 6 OF

EXHIBIT "A"

GEOLOGICAL MAPPING AND SOIL GEOCHEMICAL SURVEY

ON THE

AMIGO CLAIMS

Located 75 km northwest of Johanson Lake

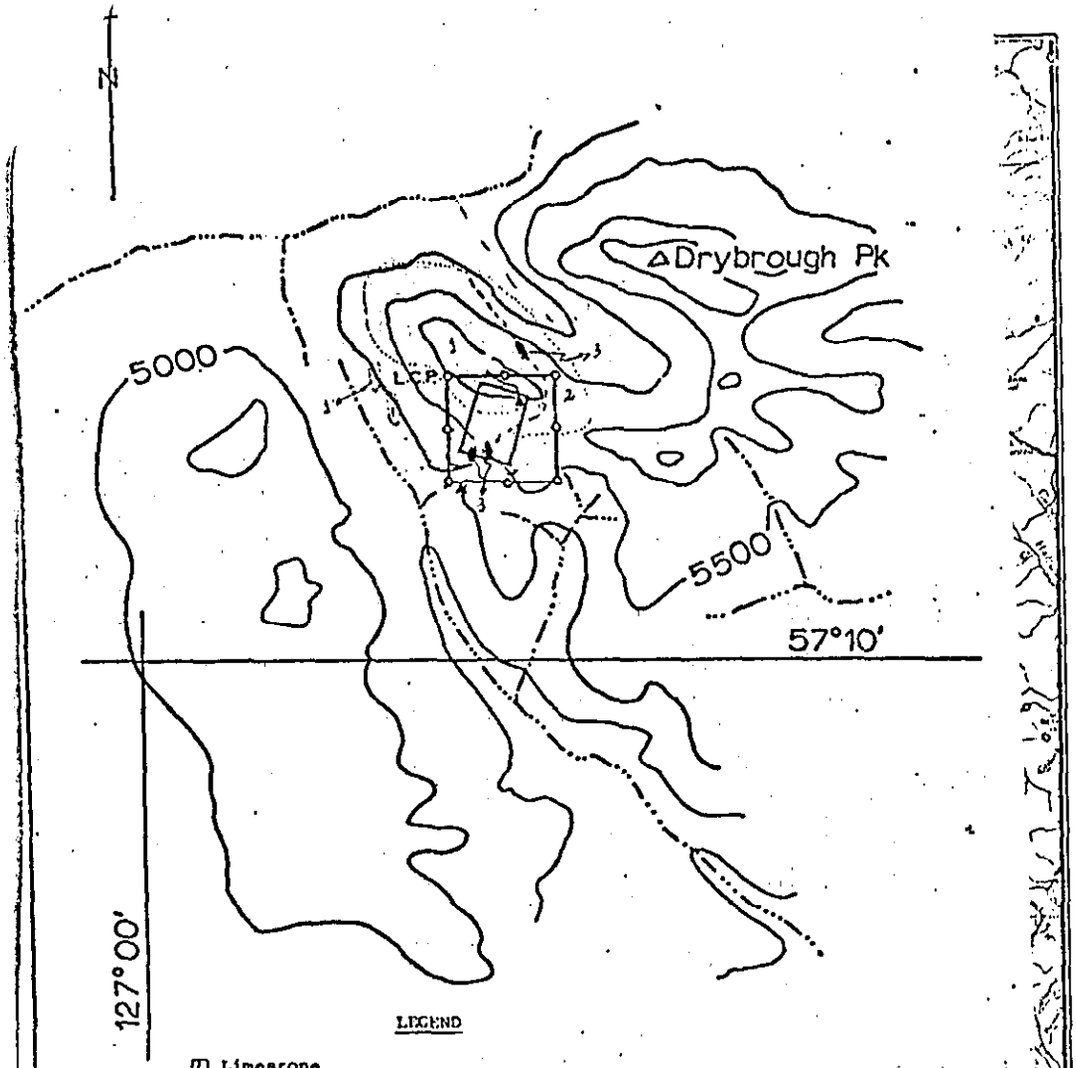
Latitude: N57°12' Longitude: W126°57'

TABLE 1

	Person	Sub Total	Total
Salaries (sampling and mapping)			
H. Lefebvre (2 days x $63.40)	$ 126.80		
R. Boocock (2 days x $64.94)	129.88		
N. Humphreys (½ day x $78.41)	39.21		
S. Fountain (½ day x $61.78)	30.89		
JCC 1½ field days + 2 days plotting + writing report (3½ x $130.24)	455.84		
		$ 782.62	
Cominco Laboratory (Vancouver)			
135 soil samples x $4.75 (Cu Pb Zn Ag W)	641.25		
		$ 641.25	
Transportation			
HL & RB (Tood (15 miles x 2) x 1.3h x 175)	228.00		
NH & SF (Tood (15 miles x 1) x 0.7h x 175)	123.00		
JCC (Tood (15 miles x 1) x 0.7h x 175)	123.00		
Gasoline (2.7 hours x 15 gal/h x 1.50/gal)	60.75		
		$ 534.75	
Board			
6½ man days x $28.94 per day	188.11		
		$ 188.11	
Mobilization and demobilization			
HL ($359.60 77 x 2)	9.34		
RB ($787.60 77 x 2)	20.45		
NH ($551.60 77 x 0.5)	3.58		
SF ($395.60 77 x 0.5)	2.57		
JCC ($359.60 77 x 0.5)	2.34		
		$ 38.28	
			$2,185.01

John C. Callis

AMIGO



LEGEND

1. Limestone
2. Quartz monzonite - quartz diorite
3. Skarn
4. Rock sample
5. Amigo claim boundary
6. Approximate area of soil sampling

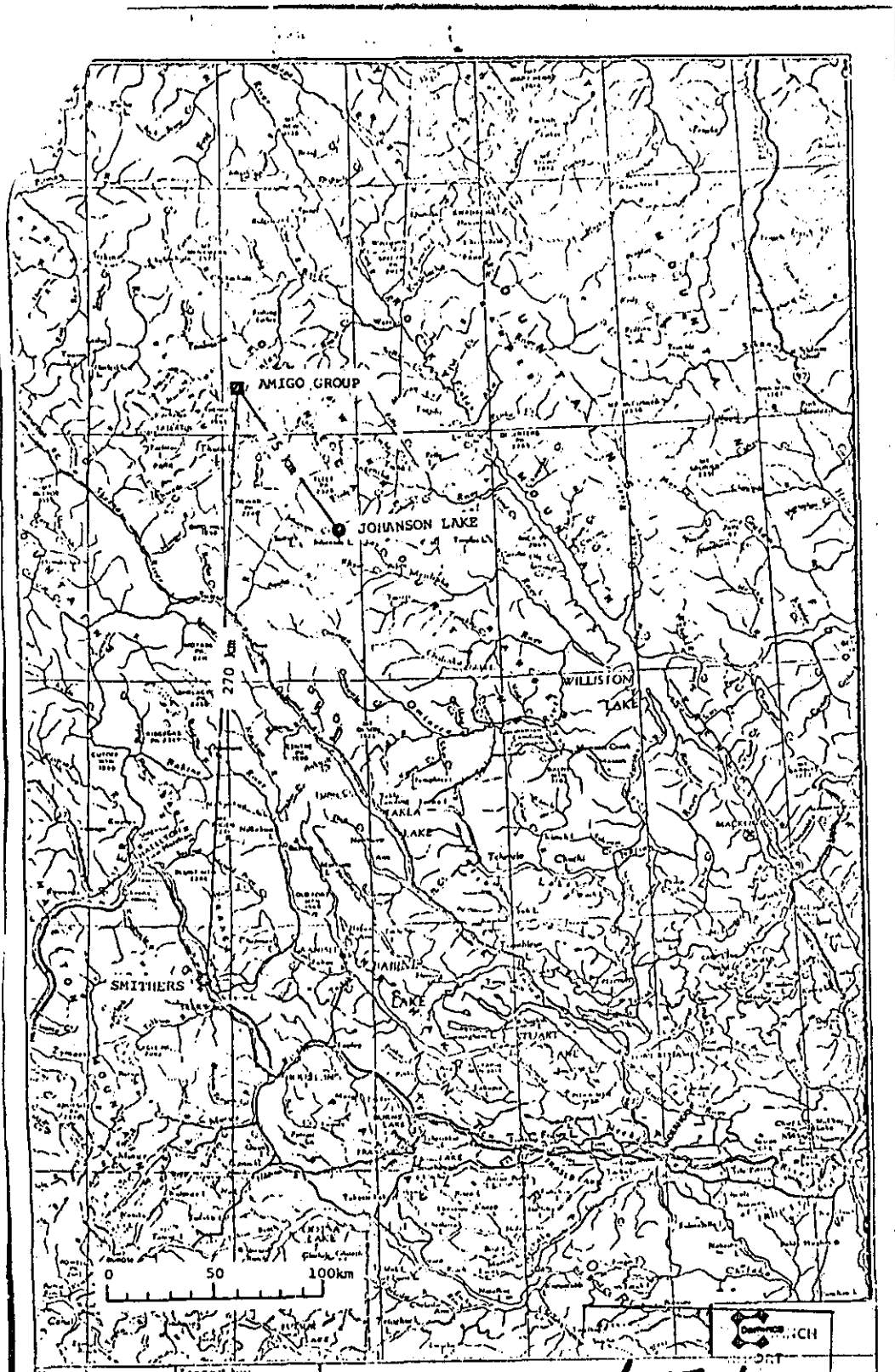
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 6762

Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

AMIGO CLAIM GROUP

OMINECA M.D. NTS 94E/2W

Scale: 1:50,000 Date: January 12, 1978 Plate: 2



Drawn by:

Traced by:

AMIGO CLAIM GROUP

LOCATION MAP

6762

NO.

Scale: 1:2,000,000

Date: January, 1978

Plate

Scale: 1:50,000

Date: January 12, 1978

NTS 94E/2W

Plate: 2

DIAMOND DRILL LOGS

ACAPULCO

DDH 87-A-1 to DDH 87-A-5

DUPLICATE FOLDED

SEREM LTD. DIAMOND DRILL LOG

PROJECT: TODOGONE

HOLE NO. 87-A-1

ZONE: ACAPULCO

CORE SIZE: START BQ

LOCATION (N.T.S.) 94E/2

CHANGE

CLAIM: STAR

DATE STARTED: AUG 9, 1987

MINING DIVISION: OMINECA

DATE COMPLETED: AUG. 12, 1987

LOGGED BY: DCR

DATE:

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)

TOTAL LENGTH 170.69

GRID ZONE CO-ORDINATES 13705 33E

ELEVATION AT COLLAR 5200' FT 1585 M

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	281°	-70°

87-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
CASING		0 – 3.05 OVERBURDEN						
3.05		3.05 – 12.7 WHITE TO MEDIUM GREY LIMESTONE WITH A MARBLE EFFECT SMALL BANDS OF CHLORITIC SCHIST AND HEMATITE STAINING THROUGHOUT.						
5.18								
93%								
8.22								
98%		9.42 – 14.0 CHLORITIC SCHIST BANDS RUNNING FROM 75° to 90° From CORE AXIS						
10.67								
100%								
12.19								
100%								
14.33								
100%								
17.07								
100%								

87-A-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
20.12			21					
105%			22					
23.32			23					
100%			24					
26.52			25					
100%			26					
29.26	29.0-29.2 BROKEN UP CORE	29.86 - 43.20 INCREASE IN HEMATITE STAINING.	27					
			28					
100%			29					
32.31			30					
95%			31					
34.14			32					
70%			33					
			34					
37.49	37.0-37.4 BROKEN UP STAINED CORE		35					
70%			36					
38.71			37					
95%			38					
			39					
			40					

SEE MOORE PRINT SMITHERS

87-A-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
40.54			41					
100%			42					
43.59		43.20 - 54.35 LIMESTONE MORE HOMOGENEOUS	43					
100%			44					
46.63			45					
100%			46					
49.38			47					
100%			48					
52.12			49					
100%			50					
53.95			51					
100%		54.35 - 66.50 LIGHT TO MEDIUM GREY LIMESTONE	52					
57.00			53					
100%			54					
59.44			55					
			56					
			57					
			58					
			59					
			60					

87-A-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
100%			61					
62.48			62					
60%			63					
65.53			64					
60%		66.50 - 82.30 BUILDUP OF HEMATITE STAINING	65					
67.66			66					
60%			67					
70.71			68					
60%			69					
73.76			70					
100%			71					
76.81			72					
100%			73					
79.86			74					
			75					
			76					
			77					
			78					
			79					
			80					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
100%			81					
82.30			82					
		82.30 - 98.50 ALGAL HEMATITIC LIMESTONE WITH AN INCREASE OF CRYSTAL SIZE	83					
100%			84					
85.35			85					
100%			86					
88.39			87					
100%			88					
91.44			89					
100%			90					
94.49			91					
100%			92					
97.54			93					
100%			94					
		98.50 FRACTURE CONTACT AT 65° TO CORE AXIS WITH MUCH HEMATITE STAINING	95					
			96					
			97					
			98					
			99					
			100					

87-A-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
100.59		TO 99.47 HEMATITE STAIN BUILDUP	101					
102.72			102					
			103					
			104					
			105					
105.77		105.2 - 107.17 BANDS OF CHORITIC SCHIST RUNNING SPORADICALLY THROUGH THE CORE AT VARIOUS TO 10CM SIZES	106					
		105.77 CRYSTAL STRUCTURE SIZE IS INCREASING	107					
			108					
108.81		108.81 - 109.40 AS ABOVE	109					
			110					
111.56			111					
			112					
			113					
114.45			114					
			115					
			116					
117.50			117					
			118					
			119					
			120					

87-A-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton	Au oz/T	Ag oz/T	Cu %
120.40			121						
			122						
123.45			123						
			124						
125.27		127.13 - 128.28 CHLORITIC SCHIST STRINGERS RUNNING FROM 15° TO 35° TO CORE AXIS AND FR. 10CM TO 25cm THICK	125						
			126						
			127						
128.32			128						
			129						
			130						
131.37			131						
			132						
	132.71-133.11 HAS 0.2m CORE LOSS	132.71-136.55 MAGNETITE CONTACT @ 82° TO CORE AXIS. BLACK MAGNETITE WITH BLEBS AND STRINGERS OF EPIDOTE AND HEMATITE. HEMITITE UP TO 2MM IN SIZE	133	25581	0.01	<0.1	0.005	0.12	.034
134.11	133.65-134.15 CRUSHED CORE		134	25582	0.01	<0.1	0.001	0.08	.036
	135.04-136.55 SOME SLIGHTLY MAGNETITE 0.2M CORE LOSS	132.91-133.01 MEDIUM GREY MARBLED LIMESTONE	135	25583	0.01	0.2	0.009	0.29	.212
		134.15-134.27 GREY LIMESTONE	136	25584	0.06	3.6	0.053	2.78	2.670
136.55		134.27-135.04 GREY LIMESTONE	137	25585	<0.01	0.3	0.002	0.86	.480
		135.18-136.55 GRADUATING TO SKARN	138	25586	<0.01	<0.1	0.002	0.11	.032
		136.55-132.99 GREEN SKARN WITH EPIDOTE / HEMATITE. CHALCOPYRITE IN BLEBS	139	25587	<0.01	<0.1	0.001	0.05	.016
139.39		136.99 RECRYSTALLIZED SKARN WITH A LARGE AMOUNT OF HEMITITE STAIN TO 137.19 (DIOPSIDIC SKARN)	140	25588	<0.01	0.1	0.001	0.06	.009

87-A-1

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
90%		137.19-139.95 DIOPSITIC SKARN WITH LITTLE CHALCOPYRITE	141					
		139.80-139.85 BLACK CHLORITIC ALTERATION	142					
142.34		139.80-145.50 INDO SKARN WITH EPIDOTE AND 2MM STRINGERS OF CALCITE	143					
100%		141.10-141.27 CRUSHED ZONE	144					
145.39		141.27 FAULT @ 45° TO CORE AXIS WITH 10 MM GOUGE	145					
98%		141.27-141.34 BLACK CHLORITIC ALTERATION	146					
147.52			147					
			148					
			149					
			150					
150.52		150.99-170.69 GRANITE INTRUSION - CONFLICT	151					
			152					
153.02			153					
		153.02 - 6cm CALCITE INTRUSION	154					
			155					
			156					
156.67		156.23 - BEDDING ? 32° C.A.	157					
			158					
			159					
159.11			160					

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DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
162.15		162.55 - 1 CM CALCITE VEIN	161					
163.37			162					
166.42			164					
167.64		167.84 - 170.96 MORE ALTERED WITH REDDISH BROWN HUE 168.14 - 168.34 - 3 VEINLETS OF CALCITE MM IN SIZE TO 1 CM.	165					
170.69		170.69 — E O H	166					
			167					
			168					
			169					
			170					
			171					
			172					
			173					
			174					
			175					
			176					
			177					
			178					
			179					
			18					

DUPLICATE POCKET

SEREM LTD. DIAMOND DRILL LOG

PROJECT: TOODOGONE

ZONE: ACAPULCO

LOCATION (N.T.S.) 94 E/2

CLAIM: STAR

MINING DIVISION: OMINECA

HOLE NO. 87-A-2

CORE SIZE: START BQ

CHANGE

DATE STARTED: AUGUST 12, 1987

DATE COMPLETED: AUGUST 13, 1987

LOGGED BY: D.C.F.

DATE: AUG 16, 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)

GRID ZONE CO-ORDINATES 1370 S 33E

ELEVATION AT COLLAR 5200 FT 1585 M

TOTAL LENGTH 144.78 M

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	281°	-55°

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
CASING		0 - 3.36 OVERBURDEN	1					
3.36		3.36 - 21.85 LIGHT TO MEDIUM GREY LIMESTONE.	2					
5%		3.36 - 8.62 SMALL MM VEINLETS, HYDROTHERMAL STAINED	3					
4.93		5.20 - 5.40 STAINED & BROKEN FAULT	4					
5.40			5					
7%			6					
7.92			7					
			8					
9%		8.62 - 9.28 CLEANER LIMESTONE WITH 6 MM VEINLETS & COARSER CRYSTALS	9					
10.97		9.28 - 15.82 DARKER LIMESTONE WITH INTERMITTENT NUMEROUS VEINLETS	10					
8%			11					
			12					
		13.41 - 13.81 BLACK TO DARK GREEN EPIDOTE TO [illegible]	13					
			14					
14.90			15					
		13.81 - 21.85 CLEANER LIMESTONE	16					
9%			17					
17.98		17.98 - 1798 - BROKEN WITH OXIDE STAINING ON FRACTURE	18					
9%			19					
			20					

SEE MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
100%								
21.03		20.83 - 1cm oxide Gouge	21					
9%		21.85 - 27.00 INDO Skarn with some Garnet staining RHODACROSITE ?	22					
		21.85 - 4cm Marl.	23					
		21.41 - 2cm Dark [illegible] 50°C.A.	24					
6%		23.66 - 24.41 LIMESTONE	25					
		24.95 - 25.10 Skarn Breccia with [illegible]						
26.21			26					
		27.00 - 28.81 MEDIUM TO DARK GREY LIMESTONE	27					
		27.32 - 27.85 Zones to 2.5cm Wide of FeS	28					
		27.00 - 27.56 Limestone lighter grey						
		28.81 - 29.16 INDO Skarn	29					
29.33		29.16 - 34.93 MEDIUM TO DARK GREY LIMESTONE	30					
31.37			31					
			32					
33.53			33					
			34					
			35					
		35.80 - 36.15 Dark Mustard Colour Band of Epidote 25°C.A.	36					
36.53			37					
			38					
39.??			39					
			40					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
42.06			41					
45.11			42					
46.33			43					
			44					
			45					
			46					
			47					
			48					
			49					
		50.20 - 50.62 WHITE MARBLE LOOKING LIMESTONE	50					
		50.62 - 53.20 MEDIUM GREY WITH HEMATITE STAINING ON FRACTURES	51					
			52					
			53					
53.64		53.64 - 56.45 CARBONATE LIMESTONE WITH LIGHTER CRYSTALLINE STRINGERS	54					
			55					
			56					
		56.45 - 56.60 - 2 FAULTS WITH BRECCIA BEING OPPOSITE DIRECTIONS 50° to C.A. & 42° TO C.A. CORE IS ALOT DARKER GREY THAN SURROUNDING ZONE	57					
			58					
			59					
			60					

SEE MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton	Au	Ag
95'		59.69 - 65.55 LIGHTER LIMESTONE WITH FINE LENSES BLACKSTONE	61					
62.35			62					
7%			63					
			64					
		65.15 FINE ANGULAR LIMONITE	65					
65.66		66.16 - DARK MOTTLED LIMESTONE	66					
		66.61	67					
		66.58 - 66.64 ZONES OF SMOOTH LIMESTONE 85° TO C.A.	68					
69.20		68.53 LIGHT DARKER GREY LIMESTONE WITH BUILDUP OF MAGNETITE ALTERED TO BLACK TALUS.	69					
10%			70					
			71					
71.33			72					
95%			73					
			74					
74.98		74.95 - 79.25 MAGNETITE WITH INTERVENING LAYERS AND SOME SILICIFICATION	75					
		74.95 - 74.98 MIXED MAGNETITE & LIMESTONE		27051	0.04	0.80	0.014	0.59
		74.98 - 75.11 LIMESTONE	76	27052	0.06	0.50	0.026	0.53
		75.11 - 75.21 MIXED MAGNETITE & LIMESTONE						
		75.21 - 75.91 DIORITIC ERODED SKARN	77	27053	0.03	0.50	0.036	0.60
78.02		75.91 - 77.14 BLACK MAGNETITE WITH UP TO 10% CHALCOPYRITE	78					
10%	78.53 - 79.25 - .42m CORE LOSS.	77.14 - 78.53 BLACK MAGNETITE WITH SOME YELLOW CALCITE		27054	0.02	0.20	0.010	0.18
79.25	79.25 - 80.67 1.41m CORE LOSS	78.53 - 79.25 MIXED SKARN - EPIDOTE - MAGNETITE	79					
		79.25 - 144.78 [illegible] SKARN.	80					

SEE MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
61 To 66 80.92	80.87-80.92 .15m FAULT GOUGE	80.92 GRANODIORITE PORPHYRITIC WITH MONGROUS VEINLETS OF CARBONATE LIGHT TO MEDIUM PINK (RHODOCHROSITE) FRACTURE PLANES 85° & 50° C.A.	81					
			82					
			83					
84.12			84					
			85					
			86					
87.17			87					
			88					
			89					
90.22			90					
			91					
			92					
92.62		92.62 92.80 LIMESTONE MED GREEN	93					
	93.98 - FOSSILIFEROUS FAULTED	92.80 15cm SILICIFIED FAULT 92.95 FOSSILIFEROUS LIMESTONE 92.98 92.68 DARK GREEN TO BLACK CHLORITE & EPIDOTE 92.68-90.10 DARK GREEN TO BLACK BIOTITE CHLORITE WITH SMALL VEINLETS OF CARBONATE	94					
95.10			95					
			96					
96.31			97					
		96.31- 107.59 CARBONATE VEINLETS INTERSECTIONS WITH ANGLE RANGING FROM 30° & 60° TO 85° & 90° C.A. IN CORE	98					
			99					
99.36			100					

SEE-MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
101.50			101					
102.20			102					
103.76			103					
104			104					
105			105					
106			106					
107.59			107					
108			108					
109			109					
110.13			110					
111.55			111					
		111.5[illegible] [illegible]	112					
113.39			113					
			114					
		115.85-116.59 DARK GRAY LIMESTONE [illegible]	115					
116.43		TO 10CM [illegible] 65° CA TO 80° CA	116					
		116.43-132.2 PINK GRANODIORITE WITH [illegible] PINK VEINLETS RUNNING ALMOST ALONG CORE AXIS	117					
			118					
119.49			119					
			120					

SEE-MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
			121					
			122					
			123					
			124					
			125					
			126					
			127					
			128					
			129					
			130					
			131					
			132					
133.39		133.39 133.95 BANDED EPIDOTE @ A.T. 30°	133					
		133.95 134.35 DARK GREY LIMESTONE WITH [illegible] VEINLETS CARBONATE	134					
134.64			135					
			136					
			137					
		137.37 - 137.97 FAULT ZONE 20° CA PINK GRANODIORITE & CARB VEINLETS	138					
		138.17 - 139.40 LIMESTONE & CARB VEINLETS	139					
			140					

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DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		139.20 - FAULT 50° C.A 141.23 - 144.78 PINK GRANODIORITE WITH CARB FILLING 60° CA 144.75 - E. O. H.	141 142 143 144 145 146					

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SEE MOORE PRINT SMITHERS

DUPLICATE FILED

SEREM LTD. DIAMOND DRILL LOG

PROJECT: TODOGONE

ZONE: ACAPULCO

LOCATION (N.T.S.) 94 E/2

CLAIM: STAR

MINING DIVISION: OMINECA

HOLE NO. 87-A-3

CORE SIZE: START BQ

CHANGE

DATE STARTED: JUNE 13, 1987

DATE COMPLETED: JUNE 15, 1987

LOGGED BY: D.C.P

DATE: AUG 18/87

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)

GRID ZONE CO-ORDINATES 1370 S 33 E

ELEVATION AT COLLAR 5200 FT 1585 M

TOTAL LENGTH 158.44

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	234°	-60°

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
3.05		0 - 3.05 OVERBURDEN						
6.71		3.05 - 93.36 LIGHT TO MEDIUM GREY LIMESTONE 3.05 - 13.66 LIGHT GREY TO DARK GREY LIMESTONE WITH ZONES OF DARK FRACTURE FILLED TO BRECCIA 5.33 6.11 5.62 6.31. 5.91 - 6.11 FRACTURE FILLED HEMATITIC STAINING WITH MAGNETITE						
10.05		10.06 - 13.13 LIGHT RECRYSTALLIZED WITH LITTLE HEMATITE STAINING ON FRACTURES 11.29 2CM. CALCITE COUCE 85° C.A.						
13.54		13.14 - 17.27 DARK GREY FRACTURED CHLORITIC FILLED LIMESTONE WITH FRACTURING ANYWHERE FROM 45° TO C.A TURNING ALONG AXIS						
17.30		16.97 - 17.27 INCREASE EPIDOTE DEVELOPMENT WITH ENHANCED SILICIFICATION 17.00 - 1.5CM CARBONATE VEIN 80° TO C.A. 17.27 - 20.79 RECRYSTAL MARBLE LOOKING LIMESTONE. 18.07 - 20.86 MORE HEMATITE STAINING ON FRACTURES						

SEE MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
20.42		20.86-25.73 LIGHTER GREY LIMESTONE WITH LESS FRACTURING	21					
22.26			22					
			23					
			24					
24.99			25					
		25.73-36.85 DARK GREY LIMESTONE WITH ZONES OF EPIDOTE SLIGHTLY GARNETIZED AT 29.58 TO 31.12	26					
			27					
28.04			28					
		29.14-29.28 WHITE CARBONATE WITH CHLORITE BANDING ON EACH END	29					
			30					
30.78			31					
			32					
			33					
33.83			34					
			35					
			36					
36.85		36.85 41.89 LIGHT RECRYSTALIZED LIMESTONE WITH SMALL VEINLETS 1MM IN SIZE RUNNING 40°CA	37					
39.10			38					
			39					
			40					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
42.24		41.89 - 42.76 BRECCIATED LIMESTONE IN A MATRIX OF DARK GREEN TO BLACK CHLORITE 42.76 - 71.73 MEDIUM GREY MARBLE LOOKING RECRYSTALIZED LIMESTONE WITH CRYSTAL STRUCTURE BEING LARGER THAN NORMAL	41					
42.1			42					
43.37			43					
			44					
			45					
			46					
46.52			47					
			48					
			49					
50.29			50					
			51					
			52					
53.20			53					
			54					
55.02			55					
			56					
			57					
58.06			58					
			59					
			60					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
50.05			61					
			62					
53.07			63					
			64					
			65					
66.6			66					
		66.14 - 66.87 MEDIUM TO DARK GREENISH GRAY SAND EPIDOTE WITH JOINT MINERALIZATION AND DARK GREEN TO BLACK BLOTCHY CHLORITE	67					
			68					
69.19			69					
			70					
			71					
		71.73 - 79.53 MEDIUM GREY LIMESTONE WITH NETWORK OF MM SIZE VEINLETS OF CHLORITE	72					
72.24		78.88 - 79.18 BAND OF CHLORITE & EPIDOTE 60° C.A	73					
			74					
			75					
75.29			76					
			77					
			78					
78.33			79					
79.40		79.53 - 93.36 MEDIUM TO LIGHT GREY HIGHLY KARSTIC LIMESTONE WITH	80					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton	Au	Ag
31.72		SLIGHT BLEACHING OF FELDSPAR STAINING ON THE VEINLETS						
35.57								
89.91								
92.36	93.36 - 105.57 SOME GROUND CORE - 80% CORE RECOVERY	93.36 - 105.57 MAGNETITE WITH LITTLE CHALCOPYRITE-EPIDOTE CARBONATE BLEBS & VEINLETS 94.70 - 98.4 - EPIDOTE & CHALCOPYRITE INTRUSIONS IN CORE IN LARGER AMOUNTS THAN BASIC CORE 101.06 - 101.14 AS ABOVE.	93.36					
96.01			94.36	27057	0.10	0.6	0.116	0.61
			95.36	27058	0.06	0.4	0.047	0.36
			96.36	27059	0.01	0.1	0.032	0.24
			97.36	27060	0.01	0.2	0.034	0.29
			98.36	27061	0.28	0.6	0.134	0.57
99.21			99.36	27062	0.19	0.5	0.099	0.58
			100	27063	0.10	0.7	0.093	0.71

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton	Au	Ag
			100.36 – 101 – 101.36	Z7064	0.12	0.7	0.125	0.81
			102 – 102.36	Z7065	0.10	0.6	0.093	0.63
102.71			103 – 103.36	Z7066	0.07	0.4	0.063	0.47
			104 – 104.36	Z7067	0.08	0.3	0.069	0.36
105.46		105.57 - 119.80 LIGHT TO MED GREY LIME STONE	105 – 105.57	Z7068	0.06	0.4	0.046	0.36
		105.57 - 113.54 RECRYSTALLIZED LIMESTONE WITH MINOR [illegible] mm SIZE CHLORITIC [illegible]	106, 107					
108.51	108.53 [illegible] FRACTURE [illegible]	113.54 - 119.80 MEDIUM TO DARK GREY LIMESTONE WITH [illegible] OF VEINLETS OF [illegible].	108, 109					
110.95			110, 111, 112					
113.67			113, 114					
115.52			115, 116					
117.65			117, 118					
118.87		119.80 - 132.69 MAGNETITE WITH [illegible] [illegible] BLEBS & VEINLETS	119 – 119.80					

SEE-MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton	Au	Ag
	119.80-132.69 SOME GROUND CORE WITH 85% CORE RECOVERY.	119.80 - 122.50 HEAVY EPIDOTE WITH CHLORITE PYRITE AND BLEBS OF WHITE CARBONATE 1% TO 10% 1CM IN SIZE	119.80 120.50	Z7069	0.12	0.3	0.099	0.49
			121	Z7070	0.06	0.1	0.037	0.19
121.92			121.5 122	Z7071	0.03	0.1	0.007	0.12
			122.5 123	Z7072	0.02	<0.1	0.011	0.14
125.75			123.5 124	Z7073	0.06	0.3	0.041	0.37
			124.5 125	Z7074	0.09	0.4	0.065	0.36
			125.5 126	Z7075	0.14	0.5	0.168	0.54
126.50			126.5 127	Z7076	0.09	0.3	0.071	0.36
			127.5 128	Z7077	0.04	0.2	0.018	0.19
		128.59 - 132.69 HEAVY EPIDOTE WITH MINOR PYRITE	128.6 129	Z7078	0.07	0.2	0.052	0.27
129.84			129.6 130	Z7079	0.06	0.2	0.031	0.21
			130.6 131	Z7080	0.03	<0.1	0.020	0.12
		132.69 - 152.24 EPIDOTIC SKARN WITH TRACE OF MICROSCOPIC MOLYBDENITE SMALL CARBONATE VEINLETS	131.6 132	Z7081	0.04	0.3	0.036	0.31
132.5			132.69 133	Z7082	0.08	0.7	0.047	0.66
			134	Z7083	0.06	0.5	0.031	0.48
		136.50 - 136.60 FAULT ZONE CA 80°	135	Z7084	0.02	0.5	0.032	0.46
135.97			136	Z7085	<0.01	<0.1	0.006	0.11
			137	Z7086	0.01	<0.1		
			138	Z7087	<0.01	<0.1		
139.09			139	Z7088	<0.01	<0.1		
			140					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION
141.77		
143.90		
145.92		147.10 – 147.64 MAFIC DARK GREEN INCOHERENT WITH SOME FINE HAIR VEINLETS
149.59		
152.24		152.24 – 158.5A INDOSKARN GRANODIORITE
152.40		152.24 FINE-GRAINED DIORITE GRADUALLY
153.20		THEN SCATTERED THROUGHOUT CORE SMALL STOCKWORKS OF CHLORITE VEINLETS
156.10		
		157.20 – 1CM CARBONATE VEIN 70° C.A.
158.34		158.5A – E.O.H.

DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton
141	27089	<0.01	<0.1
142	27090	<0.01	<0.1
143	27091	<0.01	<0.1
144	27092	0.01	0.1
145	27093	<0.01	<0.1
146	27094	<0.01	<0.1
147	27095	<0.01	<0.1
148	27096	<0.01	<0.1
149	27097	<0.01	<0.1
150	27098	<0.01	<0.1
151	27099	<0.01	<0.1
152	27100	<0.01	0.1
153	27101	<0.01	<0.1
154	27102	<0.01	0.9
155			
156			
157			
158			
159			
160			

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DUPLICATE FOLDED

SEREM LTD. DIAMOND DRILL LOG

PROJECT: TODOGONE

ZONE: ACAPULCO

LOCATION (N.T.S.) 94E/2

CLAIM: STAR

MINING DIVISION: OMINECA

HOLE NO. 87-A-4

CORE SIZE: START B.Q

CHANGE

DATE STARTED: AUGUST 15, 1987

DATE COMPLETED: AUGUST 18, 1987

LOGGED BY: [illegible]

DATE: Aug 19 & 20 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)

GRID ZONE CO-ORDINATES 1370S 33E

ELEVATION AT COLLAR 5200 FT 1585 M.

TOTAL LENGTH 229.52 m.

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	234°	-70°-55'

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		20.8 - 20.87 MINOR GARNET - EPIDOTE DEVELOPMENT ALONG BEDDING? OR FRACTURING AT 35° 20.15 - 22.05 WEAK GARNET DEVELOPMENT AROUND SEVERAL CARBONATE STRINGERS 22.95 - 23.5 CHLORITIC HEMATITIC FRACTURE FILLINGS IN SLUMP AT LOW ANGLE TO AXIS. 23.9 - 24.00 WEEKLY DIVIDED CARBONATE STRINGER ZONE WEAK GARNETIFEROUS DEVELOPMENT ASSOCIATED WITH CARBONATE STRINGERS AT 28.95, 29.93, 31.1						

SEE-MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
	0 - 3.04 CASING AND OVERBURDEN NO CORE RECOVERED							
		3.04 - 46.05 LIMESTONE: WHITE, MASSIVE LOCAL MINOR RECRYSTALLIZATION AROUND LATER CARBONATE STRINGERS. OCCASIONAL HEMATITE FEATURING IN FRACTURES TO 27						
		7.63 - 7.74 MEDIUM GRADE GARNET - EPIDOTE DEVELOPMENT AROUND 7mm REDDISH K-FELDSPAR STRINGER. 7.72 1 cm LATE STAGE CARBONATE STRINGER 90° TO AXIS						
		13.85 2cm EPIDOTE BAND 90° 14.22 - 14.30 SLICKENSIDED CHLORITIC FRACTURE WITH CARBONATE STRINGER						
		16.57 - 18.76 SLUMP BRECCIA - PALE TAN OXIDATION TO MATRIX CONTACTS AT 30°						

SEE-MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		44.2 - CHLORITE - MINOR HEMATITE FILLING FRACTURES.	41					
		44.87 - GOUGEY CHLORITIC FRACTURE AT 30°	42					
		CORE IS MEDIUM GRAIN EPIDOTE SKARN WITH OCHEROUS HEMATITE BLEBS ALONG EDGE OF CORE.	43					
			44					
			45					
46.05 - 46.0 BROKEN WITH SLICKENSIDED FRACTURE			46					
		46.05 - 46.92 GARNET EPIDOTE DIOPSIDE SKARN	47					
		MAINLY BROWN GARNETS WITH 3% POORLY DEVELOPED DIOPSIDE? OR POSSIBLY FELDSPAR WITH MINOR EPIDOTE CHLORITIC FRACTURES WITH OCHREOUS HEMATITE; AND CARBONATE FRACTURE FILLINGS. TRACES PYRITE - NO MAGNETITE OR CHALCOPYRITE.	48					
			49					
		46.92 - 51.43 GRANODIORITE - FINE GRAINED SUBHEDRAL GRANULAR; 30% MAFICS; 25% QUARTZ HIGHLY FRACTURED WITH; PINK AND WHITE CARBONATES, EPIDOTE AND CHLORITE FRACTURE FILLINGS. VAGUE FOLIATION AND PROMINENT FRACTURE DIRECTION INCLUDING CONTACTS AT 30°	50					
			51					
			52					
			53					
		BOTTOM CONTACT 0.15m EPIDOTIZED INTRUSIVE BRECCIA SHARP FRACTURE CONTACT WITH LIMESTONE	54					
		FINE PINKISH BLEACHED HALO'S AROUND MORE INTENSELY EPIDOTIZED FRACTURES.	55					
		51.43 - LIMESTONE	56					
		MASSIVE WHITE TO LIGHT GREY	57					
			58					
			59					
			60					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
	61.78 - 62.4 BROKEN	61.78 - 69.6 RECRYSTALLIZED	61 62 63 64 65 66 67 68 69 70 71 72 74 75 76 77 78 79					
		69.8? - 70.1 RECRYSTALLIZED						
		70.1 - 70.16 MASSIVE MAGNETITE CONTACTS AT 70°						
		70.16 - 70.75 - MODERATE DENSITY CALCITE SILICEOUS HEMATITE FRACTURE FILLINGS						
		75.36 - 75.5 WEAK GARNET - EPIDOTE DEVELOPMENT ASSOCIATED WITH CARBONATE STRINGERS AT LOW ANGLE TO AXIS						
		77.99 - 77.88 LOW - MEDIUM GRADE GARNET - EPIDOTE SKARN DEVELOPMENT AROUND GREENISH AMPHIBOLITIC CARBONATE AROUND BROKEN WEAKLY SILICIOUS VEINLET ? AT 20° TO AXIS. CONTAINS 1% PYRITE WITHIN DARK GREEN CHLORITE.						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		77.89 - 84 Low to medium grade garnet-epidote development associated with carbonate stringers and as fracture fillings garnet - epidote 1% or less.	81					
			82					
			83					
			84					
			85					
			86					
		87.2 - 88.1 Low - medium density chlorite - oxidized hematite fracture fillings.	87					
		88.1 5 mm chloritic breccia	88					
			89					
			90					
			91					
			92					
			93					
		90.65 - 101.45 Recrystallized.	94					
			95					
			96					
			97					
	97.1 - 98.5 Broken		98					
			99					
			100					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		97.2 3 cm GARNET - DIOPSIDE - EPIDOTE SKARN ZONE.	101					
		102.2 - 104.14 GARNET. EPIDOTE DEVELOPED IN HORNFELS FRACTURES	102					
		104.3 - 105.94 RECRYSTALLIZED	103					
		105.94 - 106.16 GARNET-EPIDOTE - GARNET UP TO 1 CM.	104					
105.94 - 106.16 PEGMATITE		106.16 - 106.14 RECRYSTALLIZED	105					
			106					
			107					
		108.18 - 108.45 LOW GRADE GARNET, DIOPSIDE EPIDOTE ENRICHMENT	108					
		108.45 - 109.95 RECRYSTALLIZED	109					
		109.95 - 112.45 MODERATE TO HIGH DENSITY CHALCOPYRITE FRACTURE FILLINGS IN RECRYSTALLIZED LIMESTONE. MINOR EPIDOTE AND GARNET	110					
		112.2 TRACE CHALCOPYRITE AND CHALCOCITE? AFTER 112.7 MAJORITY OF MATERIAL APPEARS TO BE A SKARN BRECCIA AT LOW ANGLE TO AXIS. CONTAINS CRYSTAL FRAGMENTS OF POLE MARBLE SILICIOUS OR MINERALIZED MATERIAL	111					
			112					
			113					
			114					
			115					
			116					
			117					
			118					
			119					
			120					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton		
		123.45 - 138.15 RECRYSTALLIZED 123.65 1mm MAUVE STRINGER AT 50° 124.0 - 125 1.5 cm MAUVE [illegible] STRINGER [illegible] [illegible] FOLLOWING ALONG AXIS	121 - 126					
		136.04 4 cm CHLORITIC BAND AT 50°	126 - 137					
138.07		138.15 - 151.76 SKARN ZONE.	138 / 126.1	27183	<0.01	0.2	0.013	0.27
86%		138.15 - 139.08 EPIDOTE - MAGNETITE QUARTZ ZONE. 70 % EPIDOTE - 25 % MAGNETITE BANDS AND BLEBS - 5 % QUARTZ	139	27184	0.01	0.3	0.006	0.36
140.51			140					

SEE-MOORE PRINT SMITHERS

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton	Au	Ag
140.51		AS IRREGULAR VEINLETS AND OPEN SPACE FILLINGS. < 1% CHALCOPYRITE	141	27185	0.01	0.3	0.035	0.35
95%		139.08 - 139.97 90% MAGNETITE WITH 7% EPIDOTE BLEBS AND STRINGERS 3% QUARTZ AS IRREGULAR STRINGER NEAR START OF SECTION	142	27186	0.02	0.1	0.018	0.25
143.56		139.97 - 140.44 HIGHLY BROKEN CORE FRAGMENTS OF MASSIVE PYRITE - CHALCOPYRITE WITH MINOR MAGNETITE IN MEDIUM GRAIN EPIDOTE SKARN CUT BY SEVERAL CARBONATE STRINGERS	143	27187	0.03	0.2	0.059	0.30
78%			144	27188	0.02	0.3	0.003	0.24
145.69		140.44 - 142.15 NEAR SOLID MAGNETITE WITH EPIDOTE & MINOR QUARTZ TRACE CHALCOPYRITE NEAR BOTTOM CONTACT	145	27189	0.01	<0.1	0.002	0.15
95%			146	27190	<0.01	0.1		
		142.15 - 149.9 FINE GRAINED - MASSIVE EPIDOTE SKARN 3% MAGNETITE AS BLEBS AND BANDS TO 149.5 1% AS BLEBS TO 148.5 AND < 1% TO RARE FROM 144.5 ON MODERATE TO HIGHLY FRACTURED WITH DENDROUS HEMATITE FACES	147	27191	0.01	0.1		
148.49			148	27192	0.01	<0.1		
83%			149	27193	<0.01	<0.1		
		149.9 - 150.21 LIMESTONE - MAUVE MARBLE WITH CHLORITIC BAND SEPERATING - 80° TO AXIS	150	27194	0.01	<0.1		
150.88		150.21 - 150.27 GARNET - EPIDOTE BAND AT 90°	151	27195	0.01	0.1		
		150.27 - 151.08 SOFT BROKEN ARGILLITIC EPIDOTE CONTAINING FRAGMENTS OF GARNETIFEROUS MATERIAL	152	27196	<0.01	0.1		
92%			153	27197	<0.01	<0.1		
		151.08 - 151.23 MASSIVE GARNETIFEROUS MATERIAL FOR 3/4 CORE WITH 1/4 BEING MAUVE SILICIOUS MATERIAL RUNNING ALONG AXIS	154					
153.92			155					
92%		151.23 - 151.76 CHLORITIC SOFT ARGILLITIC EPIDOTE SIMILAR TO 150.27 - 151.08	156					
		151.76 - 152.41 GRANODIORITE		27198	<0.01	<0.1		
		152.41 - 152.89 PINKISH MARBELIZED ENDOSKARN	157	27199	<0.01	<0.1		
156.97		152.89 - 155.06 BIOTITE & FORPHYRY ANDESITE DYKE 3-5% COARSE SUBHEDRAL DARK GREEN BIOTITE IN A FINE GRAINED DARK GREEN CHLORITIC GROUNDMASS	158	27200	<0.01	<0.1		
92%			159	27201	<0.01	<0.1		
158.8	159.0 - 159.2 FAULT	155.06 - 155.16 ENDOSKARN - GRANODIORITE						
92%								
160.62		155.16 - 162.95 Low - MEDIUM GRADE GARNET - EPIDOTE	160					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
160.62	161.15-161.9 HIGHLY BROKEN	SKARN:	161	27202	<0.01	<0.1		
94%		156.97-157.2 GRANODIORITE ASSIMILATION						
163.37		157.74 OPEN VUGGY CALCITE VEIN	162	27203	<0.01	<0.1		
85%		159.0-159.2 CARBONATE GOUGE						
165.2		160.45-163.7 EPIDOTE-ENDOSKARN: AMORPHOUS MIXTURE OF ACHIONITIC EPIDOTE-GARNET AND SILICA WITH LOCAL AREAS OF GRANITIC TEXTURE. NUMEROUS LATE STAGE CARBONATE FRACTURE FILLINGS.	163	27204	<0.01	<0.1		
103%								
166.22		163.7-209.51 GRANODIORITE	164	27205	<0.01	<0.1		
		FINE GRAINED; 30-35% MAFICS 5% QUARTZ. MEDIUM DENSITY/ FRACTURING WITH WHITE & REDDISH CARBONATE FILLINGS. AVERAGE 5-10/ METER.	165	27206	<0.01	<0.1		
		163.7-170.64. HIGHLY BLEACHED WITH PARTIAL DESTRUCTION OF MAFICS GIVING VAGUE LITHOLITIC REMENANTS WITHIN A GREY FELSIC GROUNDMASS.	166					
		177.4-177.75 SILICIFICATION - CARBONATE ZONE	167					
			168					
			169					
			170					
			171					
			172					
			173					
			174					
			175					
			176					
			177					
			178					
			179					
			180					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		180.3 - 184.37 SERPENTINE CARBONATE ZONE MOSTLY FINE GRAINED WHITE CARBONATE GRAINS (90%) WITH 10 DARK GREEN SERPENTINITIC BLEBS AT 235	181 182 183 184					
		183.7 - 183.0 CHLORITIC CARBONACEOUS SERPENTINE SHEAR AT 30° TO CA CARBONATE ALONG UPPER CONTACT						
		184.37 - 196.42 INTERMIXED GRANO-DIORITE AND SERPENTINITIC SECTIONS.	185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200					
	190.07 - 190.22 BROKEN							
	195.8 - 197.7 HIGHLY BROKEN & FRAGMENTED REMNANTS FINE CARBONATE STRINGER ALONG AXIS.							

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		199.2 - 201.19. PINK CARBONATE AND CHLORITE SHEAR BRECCIA ALONG CORE AXIS. SERPENTINIZED AT CONTACTS	201					
			202					
			203					
			204					
			205					
			206					
		AFTER 207.8 GROUNDMASS WHITE TO PALE GREEN	207					
			208					
			209					
			210					
			211					
211.9 - 212.6	BROKEN.		212					
			213					
214.08 - 216.38	MODERATE - HIGHLY BROKE		214					
			215					
			216					
			217					
			218					
			219					
			220					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
			221					
			222					
			223					
			224					
			225					
			226					
			227					
			228					
			229					
		229.51 E.O.H.						

87-4

DUPLICATE POCKED

SEREM LTD. DIAMOND DRILL LOG

PROJECT: TODOSGONE
ZONE: ACAPULCO
LOCATION (N.T.S.) 94E/2
CLAIM: STAR
MINING DIVISION: OMINECA

HOLE NO. 87-A-5
CORE SIZE: START B.Q.
CHANGE
DATE STARTED: August 18, 1987
DATE COMPLETED: August 21, 1987
LOGGED BY: M.V.
DATE: Aug 22, 1987

SURVEY INFORMATION

GRID CO-ORDINATES (LAT., LONG.)
GRID ZONE CO-ORDINATES 1439 S 5W
ELEVATION AT COLLAR 5178.0 Ft 1578 m

TOTAL LENGTH 161.29.

DIRECTION:

DEPTH	AZIMUTH	INCLINATION
COLLAR	281°	-60°

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		0 - 5.3 CASING No core.						
		5.3 - 93.40 Recrystallized Limestone white to light grey limestone cross-cut by dark grey fractures. Course grained calcite in places. Patchy low grade garnetiferous (?) skarns towards lower contact. Limonitic fractures in places. 9.10 - 10.27 Well recrystallized with grafitic fracture fillings. 10.97 - 14.02 Intense recrystallization.						
		14.02 - 14.30 Broken core.						
		16.76 - 17.50 Breccia with chlorite + diopside in matrix						

Hole 87-A-5

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		22.30 – 26.00 Brecciated in places with chloritic (?) + graphitic shears pyrite in matrix.	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40					
		32.5 – 32.8 Cross-cut by limonite fracture filling 8° – 5° to core axis.						
		35.36 – 36.36 Same as 22.30 – 26.00						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		40.55, 42.30 Cross-cut by graphitic shears or fracture fillings at 45° to core axis.	41					
			42					
			43					
			44					
			45					
			46					
			47					
		48.60, 51.60 Same as 40.55, 42.30	48					
			49					
			50					
			51					
			52					
			53					
			54					
			55					
			56					
			57					
		58.0 - 58.10 Patches of low-grade chlorite + actinolite - minor pyrite skarn (upto 2% pyrite).	58					
			59					
			60					

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton		
		63.30 – 65.84 Same as 40.55, 42.30 with limonite fractures at 63.40, 64.90 and 65.74.	61 62 63 64 65 66 67 68 69 70 71 72 78 74 75 76 77 78 79 80					
		71.93 – 72.0 Patches 2mm to 5mm diopside - minor garnet skarn along fractures. minor garnet dispersed in wallrock.						
		74.40 – 74.45 Grossular garnet in breccia matrix.						
		77.61 – 81.08 Chlorite + actinolite + diopside (?) + minor pyrite in matrix.						

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton		
		81.08 – 82.20 Limonitic fractures.	81					
			82					
			83					
			84					
		84.50 – 86.26 Same as 77.61 – 81.08	85					
			86					
		87.40 – 87.65 Patches of diopside-grossular minor epidote + minor pyrite skarn	87	27394	<0.01	0.1		
			88	27395	<0.01	0.1		
		89.35 – 90.70 Cross-cut in places by graphitic and limonitic shears.	89	27396	<0.01	0.1		
			90	27397	<0.01	0.1		
			91	27398	<0.01	0.1		
			92	27399	<0.01	0.1		
		93.40 – 99.50 Skarn Zone	93	27400	<0.01	0.1		
		93.40 – 93.55 Actinolite – diopside – pyrite skarn bolt fracture and bedding controlled. Cross-cut by hematitic fractures. upto 40% actinolite, 2% pyrite.	94	27401	<0.01	0.1		
			95	27402	<0.01	0.1		
		93.55 – 94.40 : same as above but more limestone and lesser skarn mineralogy.	96	27403	<0.01	0.1	0.009	0.07
		94.40 – 95.60 Same as above but with more pyrite (eg. 95.50)	97	27404	0.01	0.2	0.023	0.22
			98	27405	0.05	0.4	0.070	0.53
	93.0 – 99.10 minor shears	95.60 – 97.0 Siliceous epidote – minor actinolite minor pyrite skarn cross-cut by calcite stringers and hematitic fracture fillings.	99.10					
	99.50 limonite fracture.		100	27406	<0.01	0.1	0.006	0.10

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER
		97.20 - 97.60 Banded epidote - diopside - magnetite Skarn with magnetite at lower end. cross-cut by calcite stringers. Some pyrite. upto 5% magnetite.	101	27407
		97.60 - 97.75 Same as 93.40 - 93.55.	102	27408
		97.75 - 98.10 Diopside - epidote - minor magnetite - minor pyrite skarn, patches of calcite and cross-cut by calcite fracture fillings. contact 60° to CA.	103	27409
		98.10 - 98.40 Magnetite - Calcite - rich portion. upto 60% magnetite. cross-cutting calcite stringers. Disseminated chalcopyrite upto 2%. minor pyrite.	103.5	27410
		98.40 - 98.60 Diopside - epidote - minor calcite Skarn. cross-cutting calcite stringers.	104	27411
108.50 - 108.60 Broken Core.		98.60 - 99.30 Same as 98.10 - 98.40 lesser magnetite. cross-cut by calcite stringers.	105	27412
		99.50 Limonite fracture filling.	106	27413
		99.50 - 118.14 Recrystallized limestone with patches of diopside - minor garnet skarn and low grade chlorite - rich zones and fractures throughout. Siliceous portions in places.	107	27414
		102.3 - 103.45 chlorite - magnetite - calcite skarn with 2% magnetite. (wollastonite?)	107.3	27415
		106.37 - 106.50 Chlorite - minor epidote (wollastonite?) skarn cross-cut by hematitic ffs.	108	27416
		106.88 - 107.16 epidote. diopside. minor garnet skarn, Contact 60° to CA. minor banding parallel to bedding?	109	27417
		107.6 - 107.8 chlorite fracture fillings and minor patches of garnet. (grossular). minor pyrite	110	27418
117.20 - 117.25 Hematitic fractures parallel to core axis		112.2 .5cm wide calcite breccia cross-cutting at 60° to CA.	111	27419
119.70 - 119.74 slickensided shears.		114.45 - 114.6 pyrite + pyrrhotite fracture fillings at 20° to CA. (3mm wide).	112	27420
			113	27421
			114	27422
			115	27423
			116	27424
			117	27425
			118	27426
			119	27427
			120	27428

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	Ag Oz/ton	Au	Ag
		116.4 – 116.60 Siliceous diopside - minor epidote - minor garnet skarn. upto 15% pyrite	120	27429	<0.01	0.2		
			121	27430	<0.01	0.2		
	122.30 - 1cm wide shear with gouge	116.95 – 117.25 Breccia with limestone fragments and hematite matrix. cross-cut by hematitic fractures parallel to core axis	122	27431	<0.01	0.1		
		117.87 – 117.90 Breccia with limestone fragments in skarned matrix. 80° to core axis.	123	27432	<0.01	0.1		
	124.20 – 124.25 Broken core with chloritic gouge	118.14 – 118.5 Banded Magnetite - Hematite - pyrite - Chlorite Skarn. Banding 60° to core axis. upto 10% magnetite, 5% pyrite, and 5% hematite.	124	27433	<0.01	0.1		
			125	27434	<0.01	0.1		
	124.90 – 124.95 Broken Core with gouge.		126	27435	<0.01	0.1		
	126.30 – 126.34 chloritic - hematitic shears.	118.5 – 120.09 Banded Hematite - Epidote - minor Chlorite - minor pyrite - Siliceous Skarn. upto 60% hematite patches of calcite and cross-cut by calcite fracture fillings. Brecciated in places with hematitic matrix.	127	27436	<0.01	0.1		
			128	27437	<0.01	0.1		
	127.30 – 127.40 Broken core with chloritic gouge	120.09 – 125.9 Epidote - minor hematite Skarn Cross-cut by hematitic fracture fillings and minor calcite veinlets.	129	27438	<0.01	<0.1		
			130	27439	<0.01	0.8	0.002	0.66
	128.85 – 129.10 Broken Core with clay fractures.	124.20 – 124.25 Chloritic gouge.	131	27440	<0.01	0.8	0.001	0.52
		124.80 – 124.96 Chloritic & clayey gouge.	132	27441	0.02	0.4	0.379	7.175
	132.0 – 132.50 Highly broken core with limonite chlorite & clay fractures parallel to core axis.	125.90 – 125.95 Diopside-rich Portion cross-cut by calcite and quartz veinlets at 70° to core axis.	133	27442	0.01	0.1	0.001	0.04
			134	27443	<0.01	<0.1		
		125.95 – 128.80 Siliceous Epidote - minor Chlorite Skarn Cross-cut by calcite fracture fillings and hematitic fractures.	135	27444	<0.01	<0.1		
	132.81 – 135 clay fractures + calcite fractures 1 – 2cm apart.		136	27445	<0.01	<0.1		
		127.21 – 127.91 Siliceous brecciated Chlorite - epidote skarn. cross-cut by minor calcite fractures. minor pyrite	137	27446	<0.01	<0.1		
		128.80 – 129.79 Chlorite - Epidote Endoskarn Relict intrusive texture. cross-cut by dark green chlorite fractures. quartz-rich and coarser-grained portions. minor calcite veinlets.	138	27447	0.01	<0.1		
			139					
			140	27448	<0.01	<0.1		

DEPTH Metres	GRAPHIC LOG	GEOLOGIC DESCRIPTION	DEPTH Metres	SAMPLE NUMBER	ASSAYS Au Oz/ton	ASSAYS Ag Oz/ton
		132.10 – 132.50 Broken Core : Chloritic shears. minor calcite fractures.	141	27449	<0.01	<0.1
		129.79 – 161.24 Granodiorite. Medium grained intrusive texture with upto 50% mafic minerals cross-cut by calcite and rhodochrosite (?) fracture fillings every 1 to 2 cm. Hematite – magnetite fractures with bleached wall-rock envelopes. Pyrite in matrix.	142	27450	<0.01	<0.1
			143			
			144			
	44.7 3 cm wide fault.		145			
		129.79 – 140.20 Bleached intrusion with complete destruction of mafics to Sericite ± clay. Cross-cut by clay fractures	146			
			147			
		141.8 magnetite + hematite + calcite + quartz veinlet 0.4 cm wide 25° to CA.	148			
		146.2 Minor shear zone.	149			
		147.1 0.5 cm wide quartz veinlet cutting across calcite + rhodochrosite veinlet.	150			
			151			
			152			
			153			
			154			
			155			
			156			
			157			
			158			
			159			
		161.24 End of Hole.	160			

MIN-EN LABORATORIES LTD.
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
Phone: 980-5814

Certificate of Assay

TO: Mohan Vulimiri PROJECT No. _____

DATE August 17, 1983

File No. SK-4

SAMPLE No.	Ag oz/ton	Au oz/ton		
GRAB → 25446	32.0	0.50		
25447	01	<0.01		
25448	1.5	0.75 ✓	} 1meter chip samples, trench	
Acanthite 25449	0.5	0.75 ✓		
25450	0.5	0.21	Au Fe Au skarn.	
25451	<0.1	<0.01		

MIN-EN Laboratories Ltd.

CERTIFIED BY Timothy Blackwell

David S. Robertson & Associates

REPORT ON THE

TOODOGGONE PROJECT

OF

SEREM LTD.

DAVID S. ROBERTSON & ASSOCIATES
Consulting Geologists & Mining Engineers
Toronto, Canada
M5H 1J8

September 30, 1983

down slope from a saddle between two peaks. A moderate gold soil anomaly is also present further down the slope. Samples of talus and outcrops, however, have not returned any significant values.

Although the geological setting does not appear to conform to the Lawyers - Chappelle area, additional work should be done to locate the source of the Au-(Cu) soil anomaly.

ACAPULCO, ACA, PUL, CO, STAR, SUN CLAIMS (65 Units)

The claims were staked in the summer of 1980 and in early 1981 to cover anomalous Au-Ag geochemistry.

The southern part of the group of claims is underlain by lower Jurassic quartz monzonite. The northwestern part contains a lobe of Takla volcanics and limestone while the northeastern part contains Toodoggone volcanic rocks. The limestone, which may belong to either the Permian Asitka or the Triassic Takla Group, has skarn zones developed adjacent to the intrusive body.

In 1980, stream silt and soil sampling, minor mapping and prospecting were carried out. Samples were analyzed for Au, Ag, Cu, Pb, Zn and Mo. Encouragement was obtained in two areas.

On the Pul claim, chalcopyrite-bornite mineralization was found associated with skarn, and the Sun and Star claims were staked to cover possible extensions. Although most grab samples gave low values, some of the mineralized skarn and sulphide vein material contained high copper, gold and silver values, for example:

Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Rock Type
Float	2.58	0.30	279.4	Magnetite-chalcopyrite vein
Outcrop	22.9	99.41	370.2	Skarn with chalcopyrite
Outcrop	2.90	15.94	72.7	Skarn with bornite
Outcrop	14.05	27.4	1114.1	Skarn with chalcopyrite and malachite
Outcrop	4.70	1.23	1830.6	Magnetite with chalcopyrite and galena

On the Acapulco, Aca and Pul claims, some Au-Ag mineralization was associated with quartz veins near the contact of a Jurassic intrusive with volcanic rocks. Grab samples assayed as follows:

Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Rock Type
Outcrop	5.41	1.06	205.3	Chalcopyrite-bornite-sphalerite vein
Outcrop	3.06	2.57	346.2	Quartz vein in volcanic rock
Frost-heave	0.004	18.34	459.4	Quartz vein in intrusive with pyrite

Other samples gave lower values, and SEREM considered the quartz veins to be too widespread and the geochemical response too weak to be of further interest.

In 1981, mapping, prospecting and grid soil sampling were carried out on the skarn area. Small pods, stringers and disseminations of chalcopyrite, bornite, and other sulphides occur throughout the 2.5 x 1.5 kilometer skarn area, which is

located on a ridge. Copper-bearing grab samples carried variable amounts of Au and Ag. One grab sample from a partially exposed, 200-meter long bornite-chalcopyrite zone assayed 0.55 g/t Au, 2,811.4 g/t Ag and 36.55 per cent Cu.

More prospecting and mapping are planned for 1982 to evaluate the potential of the skarn-associated Au-Ag mineralization on the Pul - Star - Sun claims.

DUKE CLAIMS (28 Units)

The Duke 1 and 2 claims were staked in the summer of 1980 to cover a gold stream silt anomaly.

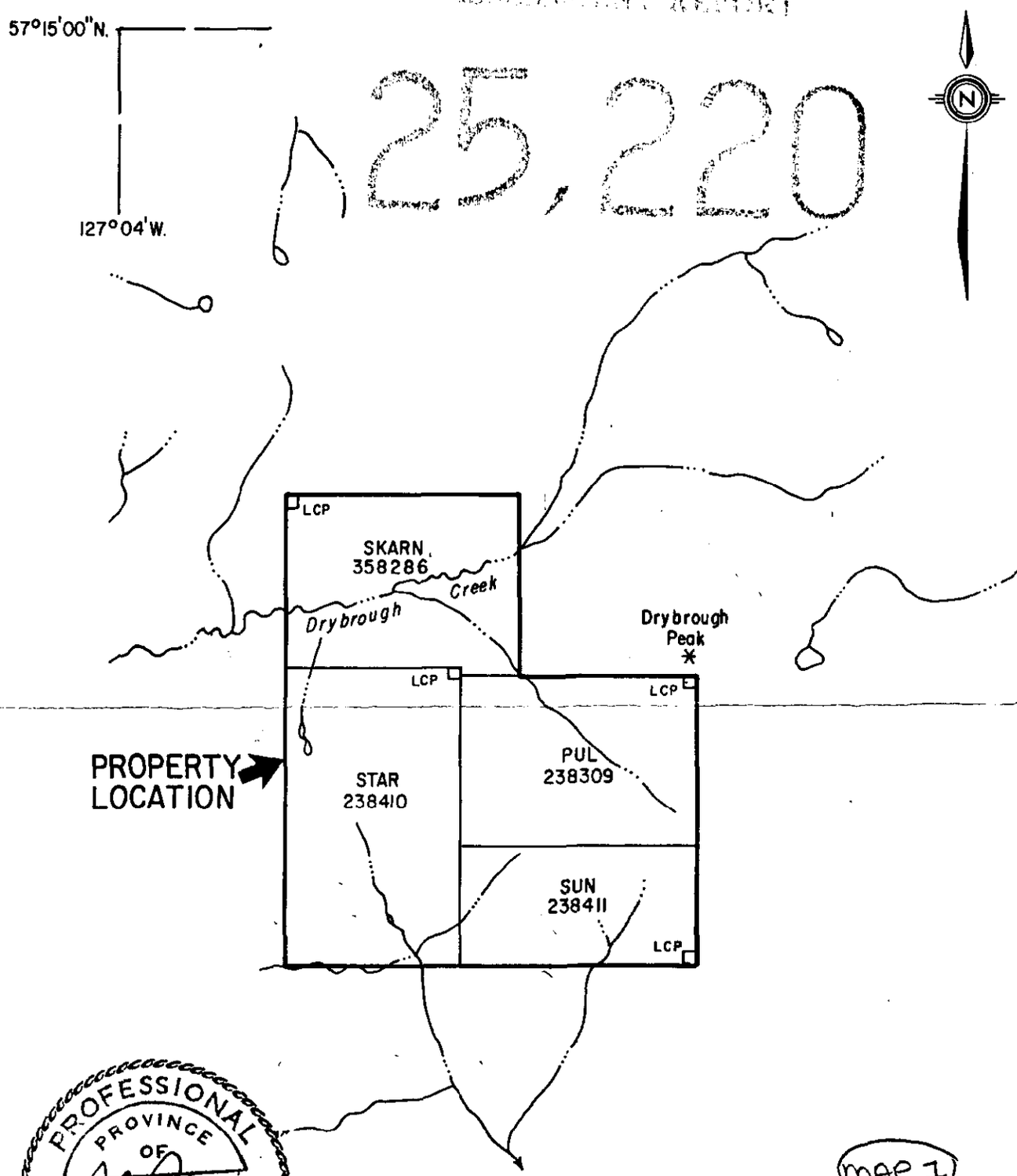
The claims are underlain by Hazelton Group volcanics intruded by a small body of Middle Jurassic granodiorite.

Extensive quartz breccia zones were found and sampled. SEREM reports that the veins are too sparse and the analytical results too low, however, to be of economic interest. A reconnaissance soil sample on the Duke claims, with a value of 1,750 ppb Au, will be followed up by prospecting in 1982.

OJ 2, ARG, ATLAS, HERCULES CLAIMS (57 Units)

The OJ and Arg claims were staked in the summer of 1980 to cover stream silt anomalies. The adjacent Atlas and Hercules claims were staked early in 1981 to cover other silt anomalies.

The property is underlain by Toodoggone and Hazelton volcanic rocks intruded by small Jurassic plutons. Some



PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

KILOMETRES
0 .5 1 2 3

MAP 1

TANUTA VENTURES CORP.

CLAIM MAP

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

Drawn: J. R. P.	Checked: J. R. P.	Plan No.
Scale: 1:50,000	Date: Oct. 15, 1997	2

(2)

BAKER MINE
26
ACCESS ROAD
182
50 SHAS
39
MAS
4B
X8 PILLAR
XAM
Xqv
X3 RIGA
DRYBROUGH PEAK
Xcp
Black Lake
STURDEE AIRSTRIP
Drybrough Ck.
PROPERTY LOCATION
IP ASITKA GROUP
Xcp
Xgn ba cp
Sk X cp mo
58 AMIGO
Sk X
Am bo X
Xgm
VIP
IP
SK qv cp py mag
IP Xcp py
STURDEE RIVER
FIRESTEEL RIVER
FINLAY RIVER

0 .5 1.0 2.0 3.0 4.0
KILOMETRES

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

REF. DATA.
GEOLOGY OF THE TOODOGGONE RIVER AREA, N.T.S. 94E.
L.J. DAIKOW, A. PANTELEYEV, AND T.G. SCHROETER, 1985.

TANUTA VENTURES CORP.

MAP2

REGIONAL GEOLOGY

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED.	J.R.P.	PLAN No. 3
SCALE.	1:50,000	DATE.	OCT. 15, 1997	

LEGEND

- 4 — Mafic or lamprophyre dikes, sills
- 3 — Intrusion (feldspar porphyry, quartz monzonite - quartz diorite)
- 2 — Skarn (diopside - epidote - grossular garnet ± magnetite skarn)
- 1 — Recrystallized limestone & marble
- x — Subcrop
- Outcrop
- Contact
- Bedding plane & dip
- Skarn fracture
- Chalcedony fracture filling & dip
- Shear plane & dip
- Fracture " " "
- Minor fault
- VLF - EM conductor
- Creek or stream
- 0.78,1.8 — oz Au/ton, oz Ag/ton - Assay (grab sample)
- Copper mineralization — cp chalcopyrite, bn bornite, py pyrite, gn galena, sp sphalerite

SKARN

LCP

STAR

PUL

SUN

0.50 , 32.0
rhodonite
bn,cp
gn,py,sp
cp

moraine

skarn gn py ?E floats

intrusive in stream.

limestone fragments in stream

chalcedony fracture

(0.01, 0.1
0.78, 1.8
0.75, 0.5
0.21, 0.8

FIG. 5

magnetite+cpy +mal

2+00N
0+00
5+00S
10+00S

1440
1600
1800
1920
1680
1400

A
A'

TANUTA VENTURES CORP.

LOCAL GEOLOGY PLAN

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN. J.R.P.	CHECKED. J.R.P.	PLAN No. 4
SCALE. 1:5000	DATE. OCT. 15, 1997	

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Contours at 40m interval

SEREM INC.

ACAPULCO GROUP
SUN - STAR CLAIMS

GEOLOGY (MAP 3)

OMINECA M.D., B.C.

SCALE 1:5000

0 100 200 400 METRES

WORK BY : GRANT CROOKER & MOHAN VULIMIRI	
DRAWN BY : M. VULIMIRI	N.T.S. 94E - 2W
DATE : SEPT. 1985	FIGURE No. 3

CHONG

(4)

A

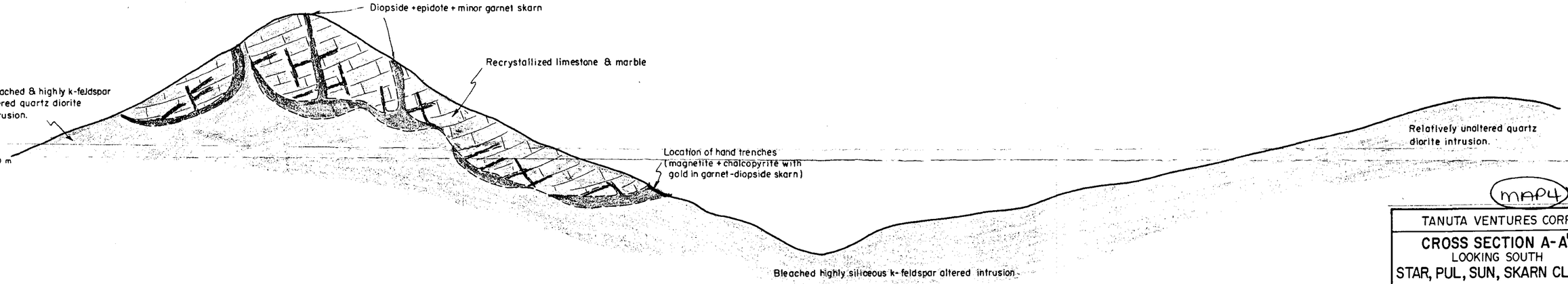
A'

El. 2000 m.

El. 1600 m

El. 1200 m

LOOKING SOUTH



MAP 4

TANUTA VENTURES CORP.

CROSS SECTION A-A'
LOOKING SOUTH
STAR, PUL, SUN, SKARN CLAIMS
OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

Drawn: J.R.P.	Checked: J.R.P.	PLAN No.
Scale: 1:5000	Date: Oct. 15, 1997	5

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J. R. POLONI

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

M. L. Crooker
Mohan Vulimiri

SEREM INC.

ACAPULCO GROUP
SUN - STAR CLAIMS

CROSS SECTION A-A'
OMINECA M.D., B.C.
SCALE 1:5000
0 100 200 300 Metres

WORK BY: GRANT CROOKER & MOHAN VULIMIRI	
DRAWN BY: M.VULIMIRI	N.T.S. 94E-2W
DATE: SEPT. 1985	FIGURE No. 4

CHONG

LCP SKARN

LCP STAR

LCP PUL

LCP SUN

S.E.R.E.M. 1982 GRID

18+00W 17+00W 16+00W 15+00W 14+00W 13+00W 12+00W 11+00W 10+00W 9+00W 8+00W 7+00W 6+00W 5+00W 4+00W 3+00W 2+00W 1+00W 0+00W

120N 119N 118N 117N 116N 115N 114N 113N 112N 111N 110N 109N 108N 107N 106N 105N 104N 103N 102N 101N 100N 99N 98N 97N 96N 95N 94N 93N 92N 91N 90N

3N 2N 1N 0 1S 2S 3S 4S 5S 10S 11S 12S 13S 14S 15S 16S 17S 18S

CLIFFS

RX 0.02-4.4

0.18-42.9-1.69 RX RX 0.05-35.2-1.40

RX 7.86-275.0-4.570

RX 3.33-418-1.760

RX S97-22 0.16-12.5

RX 0.07-38.6-1.210

RX S97-23 0.22-44.3

S97-14,15,16 17,18,19,20 RX S97-4A 0.08-63.1 RX S97-4B 0.02-23.6

0.06-53.0-2.78
0.43-129.0-3.95
0.04-18.9
0.06-122.0-4.410
0.13-192.0-1.460
15.62-451-1.210
0.36-169.0-1.460

RX 0.05-42.6

87A-1,2 DDH

87A-3,4

87A-5 DDH

OLD CUT B/L S6°GRID

RX 0.15-278.0-1.040

RX 0.06-43.5

BASE LINE 100+00E

TL 110+00E

TL 90+00E

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA

LEGEND

- D.D. HOLE
- LINE STATION
- CREEK
- CLAIM POST
- TREE LINE

S97-22 ✱ RX LOCATION/NUMBER | Au oz/T. 0.36 | Ag oz/T. 169.0 | Cu% 1.460

METRES
0 100 200 300 400 500 600

TANUTA VENTURES CORP.

GENERAL GRID COMPILATION ROCK SAMPLES 1997

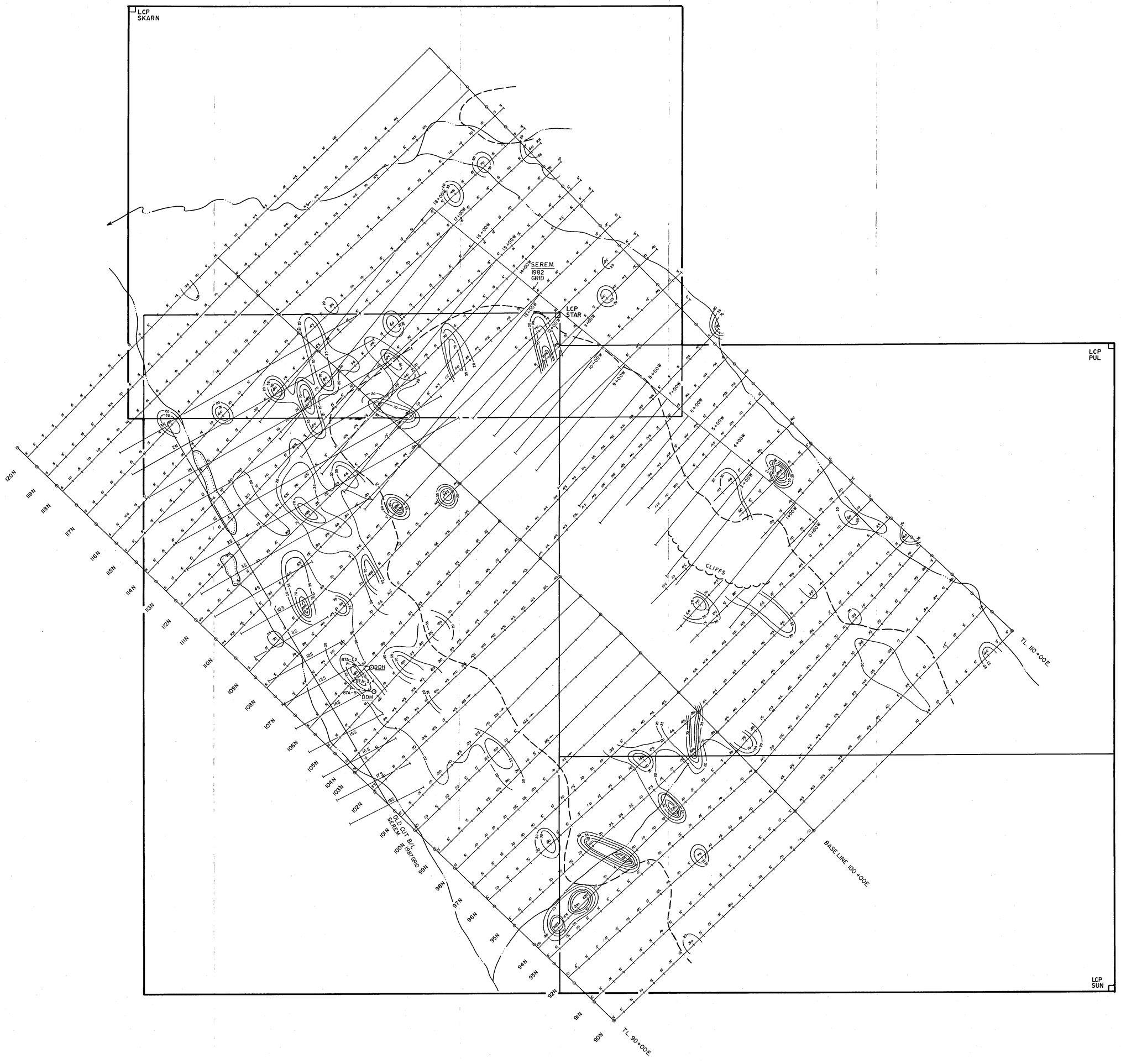
MAPS

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED. J.R.P.	PLAN No. 6
SCALE.	1:5000	DATE. OCT. 15, 1997	



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

LEGEND

- D.D. HOLE
- LINE STATION SHOWING Au PPB
- CREEK
- CLAIM POST
- TREE LINE

SOIL GEOCHEMICAL DATA
MEAN 17 PPB
BACKGROUND 35 PPB

METRES
0 100 200 300 400 500 600

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J. R. POLONI

TANUTA VENTURES CORP.

SOIL GEOCHEMICAL PLAN

Au PPB

MAP 6

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED.	J.R.P.	PLAN No. 7
SCALE.	1:5000	DATE.	OCT. 15, 1997	

(7)

LCP SKARN

LCP STAR

LCP PUL

LCP SUN

S.E.R.E.M. 1982 GRID

OLD CUT B/L SEREM 1997 GRID

BASE LINE 100+00E

TL. 110+00E

TL. 90+00E

CLIFFS

DDH 87A-1,2

DDH 87A-3,4

DDH 87A-5

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

LEGEND

- D.D. HOLE
- LINE STATION — Ag PPM / As PPM
- CREEK
- CLAIM POST
- TREE LINE

SOIL GEOCHEMICAL DATA

- ANOMALOUS As PPM
- ANOMALOUS Ag PPM

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METRES

0 100 200 300 400 500 600

TANUTA VENTURES CORP.

SOIL GEOCHEMICAL PLAN

Ag PPM, As PPM

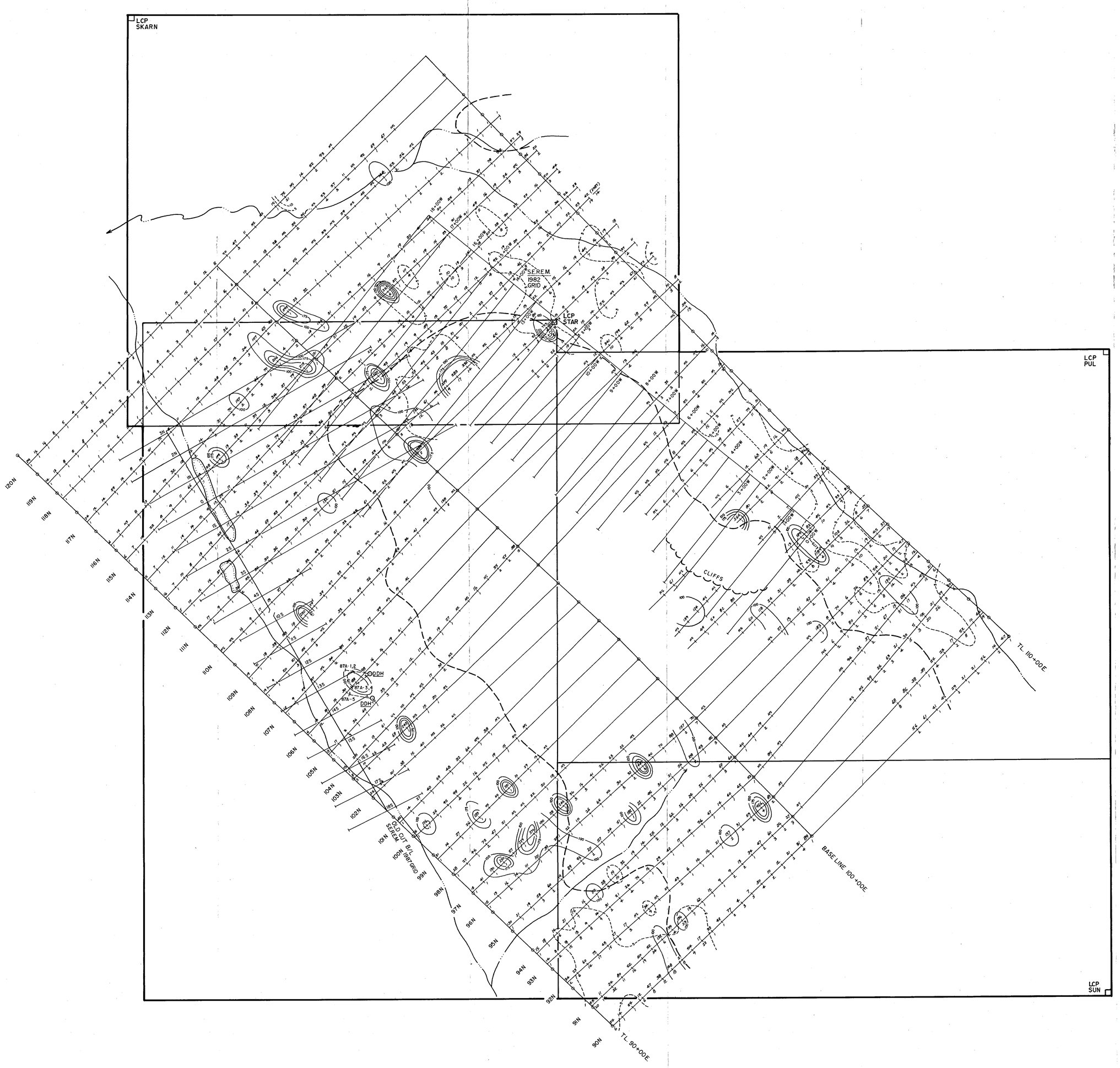
(MAP 7)

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED	J.R.P.	PLAN No. 8
SCALE.	1:5000	DATE.	OCT. 15, 1997	



LEGEND

- D.D. HOLE
- LINE STATION — Cu PPM / Mo PPM
- CREEK
- CLAIM POST
- TREE LINE

SOIL GEOCHEMICAL DATA

- ANOMALOUS Cu PPM
- ANOMALOUS Mo PPM

METRES

0 100 200 300 400 500 600

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TANUTA VENTURES CORP.

SOIL GEOCHEMICAL PLAN

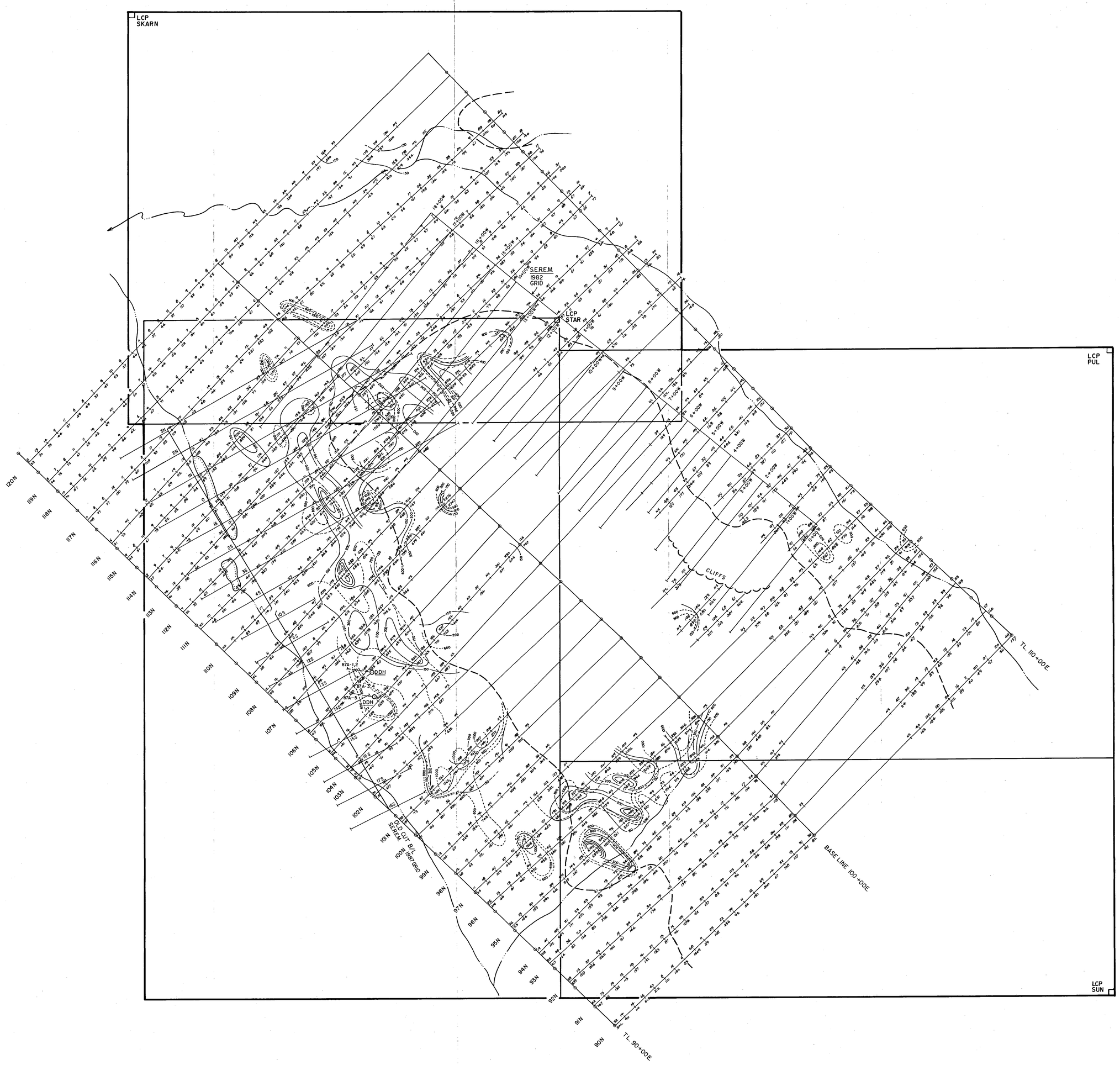
Cu PPM, Mo PPM (MAP 8)

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED	J.R.P.	PLAN No. 9
SCALE.	1:5000	DATE.	OCT. 15, 1997	



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

LEGEND

- D.D. HOLE
- 446 / 214m — LINE STATION
- Pb PPM / Zn PPM
- CREEK
- CLAIM POST
- TREE LINE

SOIL GEOCHEMICAL DATA

- 150 — ANOMALOUS Pb PPM
- 600 — ANOMALOUS Zn PPM

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METRES

0 100 200 300 400 500 600

TANUTA VENTURES CORP.

SOIL GEOCHEMICAL PLAN

Pb PPM, Zn PPM (MAP 9)

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED.	J.R.P.	PLAN No. 10
SCALE.	1:5000	DATE.	OCT. 15, 1997	

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

LEGEND

- D.D.HOLE
- 3/40 LINE STATION WITH RESULT IN GAMMAS
- CREEK
- CLAIM POST
- TREE LINE
- READINGS ARE PLOTTED -57,000 GAMMAS

METRES
0 100 200 300 400 500 600

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. R. POLONI

TANUTA VENTURES CORP.

MAGNETOMETER SURVEY

STAR, PUL, SUN, SKARN CLAIMS
OMINECA MINING DIVISION, B.C.
MAP 10

JOHN R. POLONI & ASSOCIATES LTD.			
DRAWN. J.R.P.	CHECKED. J.R.P.		PLAN No. 11
SCALE. 1:5000	DATE. OCT. 15, 1997		

LCP SKARN

LCP STAR

LCP PUL

LCP SUN

S.E.R.E.M. 1982 GRID

CLIFFS

OLD CUT B/L 100N 19E/GRID 99N

87A-1,2 DDH

87A-3,4

87A-5 DDH

TL. 110+00E

BASE LINE 100+00E

TL. 90+00E

LEGEND

- D.D. HOLE
- LINE STATION SHOWING RESULT
- CREEK
- CLAIM POST
- TREE LINE

PHOENIX VLF-2 UNIT
SEATTLE TRANSMITER STATION

METRES
0 100 200 300 400 500 600

TANUTA VENTURES CORP.

V.L.F.- E.M. SURVEY

MAP 11

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED.	J.R.P.	PLAN No. 12
SCALE.	1:5000	DATE.	OCT. 15, 1997	

C.P. 3W

I.D. 2W

6+00E

I.D. 1W

STAR CLAIM

4+00E

2+00E

330° BASELINE

2+00 W

I.D. 3W, 1S

3 N

2 N

1 N

0

1 S

I.D. 3W, 2S

2 S

3 S

4 S

5 S

6 S

7 S

8 S

9 S

10 S

CONDUCTOR B

CONDUCTOR A

1986 TRENCH LOCATION

N

SEATTLE, WASHINGTON

INSTRUMENT : GEONICS EM-16
TRANSMITTER : NLK-24.8 KHz, SEATTLE, WASHINGTON
STATION
CREEK
CLAIM POST
TRENCH

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

25,220

TANUTA VENTURES CORP.

VLF - EM SURVEY

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN. J.R.P.	CHECKED. J.R.P.	PLAN No.
SCALE. 1:2500	DATE. OCT. 15, 1997	13

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

SEREM INC.

ACAPULCO GROUP MAP 12

VLF - EM SURVEY
FRASER FILTER DATA

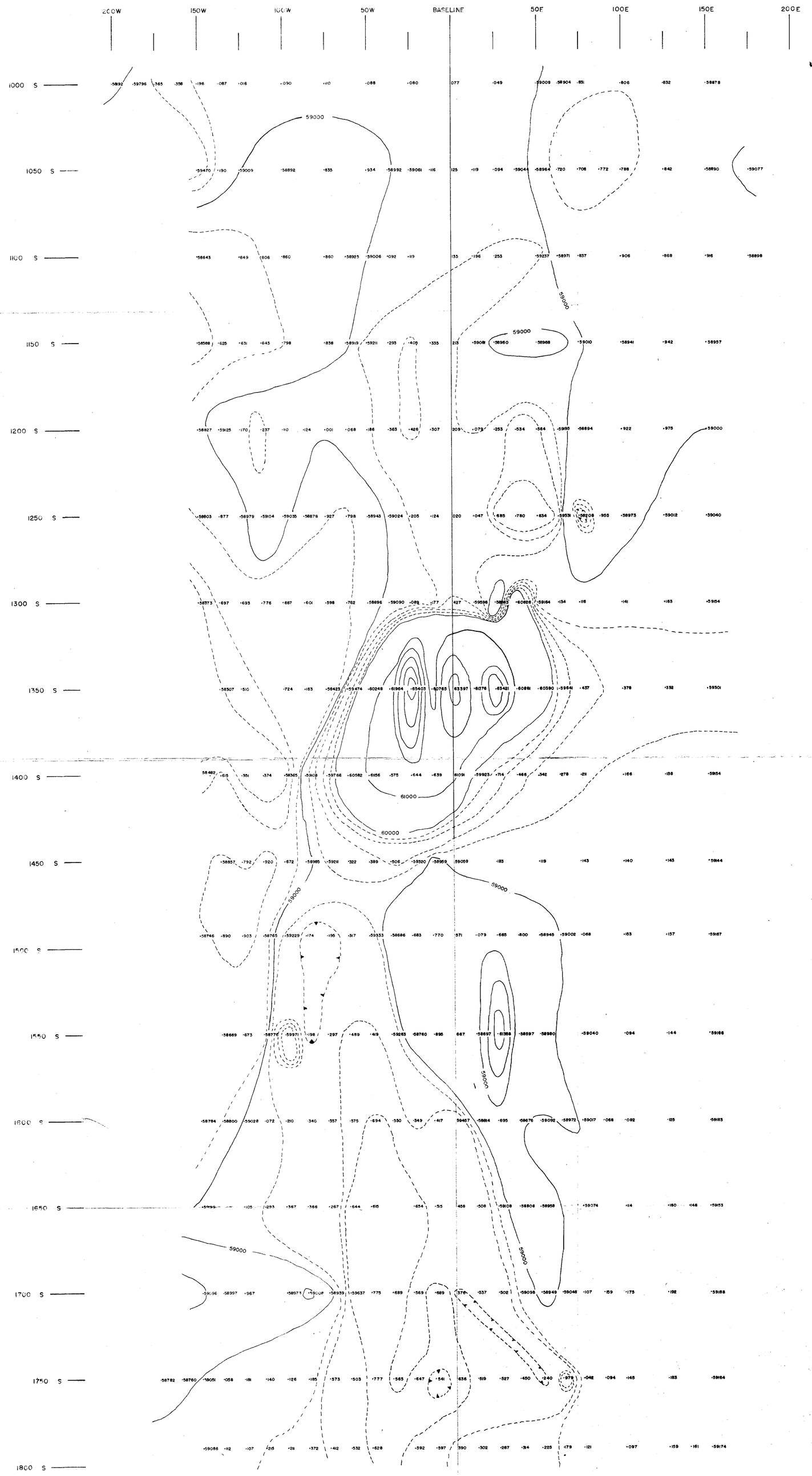
OMINECA M.D., B.C.

SCALE 1:2500

0 50 100 200 METRES

WORK BY : GRANT CROOKER & MOHAN VULIMIRI	
DRAWN BY : G. CROOKER	N.T.S. 94E-2W
DATE: SEPT. 1985	FIGURE Nº 6

CHONG



LEGEND

1000 gamma contour interval

200 gamma contour interval

Data was aquired with a Geometrics 286A, total field, proton precession magnetometer.

TANUTA VENTURES CORP.

MAGNETOMETER SURVEY (1987)

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN. J.R.P.	CHECKED. J.R.P.	PLAN No. 14
SCALE. 1:1000	DATE. OCT. 15, 1997	

Grid North

23°

N

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

MAP B

CHENI GOLD MINES INC.

TOODOGGONE PROJECT
ACAPULCO GROUP

MAGNETOMETER SURVEY

EXECUTED: CHENI DATE 1987	SCALE: 1/1000 (0, 20, 40, 60m)
DATA: SH 1987	
INTERPRETED:	N.T.S. 94E/2
DRAFTED: KLI 1987	REPORT No:
REVISIONS:	MAP No:

(14)

18+00 W
17+00 W
16+00 W
15+00 W
14+00 W
13+00 W
12+00 W
11+00 W
10+00 W
9+00 W
8+00 W
7+00 W
6+00 W
5+00 W
4+00 W
3+00 W
2+50 W
1+00 W
0+00 W

0+00 S
1+00 S
2+00 S
3+00 S
4+00 S
5+00 S
6+00 S
7+00 S
8+00 S
9+00 S
10+00 S

STAR
LCP
ACA
PUL
CLIFFS
CLIFFS
05,1E
05,1W
05,2W
05,3W
15,4W
15,5W
05,1W
AMIGO (COMINCO)

1500
1600
1700
1800

Grid North
40°

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

TANUTA VENTURES CORP.

MAGNETOMETER SURVEY (1982)

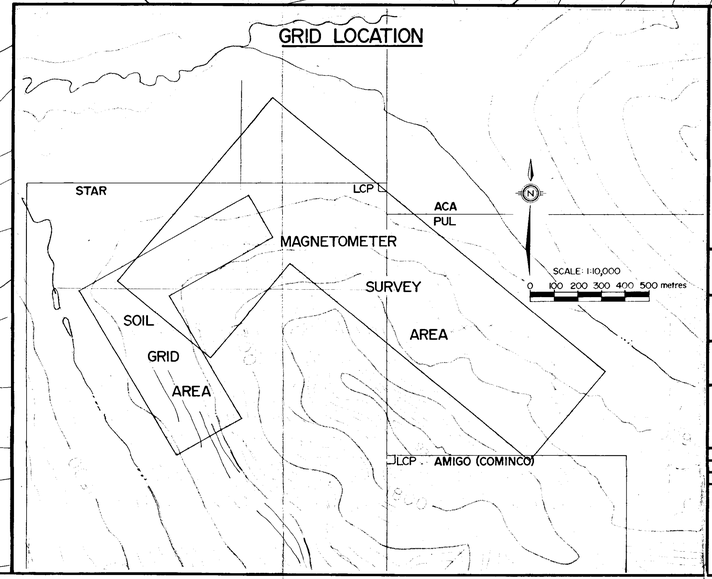
STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN. J.R.P.	CHECKED. J.R.P.	PLAN No.
SCALE. 1:2000	DATE. OCT. 15, 1997	15

GRID LOCATION



LEGEND

Contour of magnetic readings (Geomagnetics G826 proton precession magnetometer). Scale: 1cm = 200 gammas. Baseline = 59,000 gammas.

Baseline or tieline.

Treeline.

MAP 14

1800 Topographic contour, 20m interval.

Claim line.

SEREM LTD.

TOODOGGONE PROJECT

STAR, PUL, and ACA CLAIMS

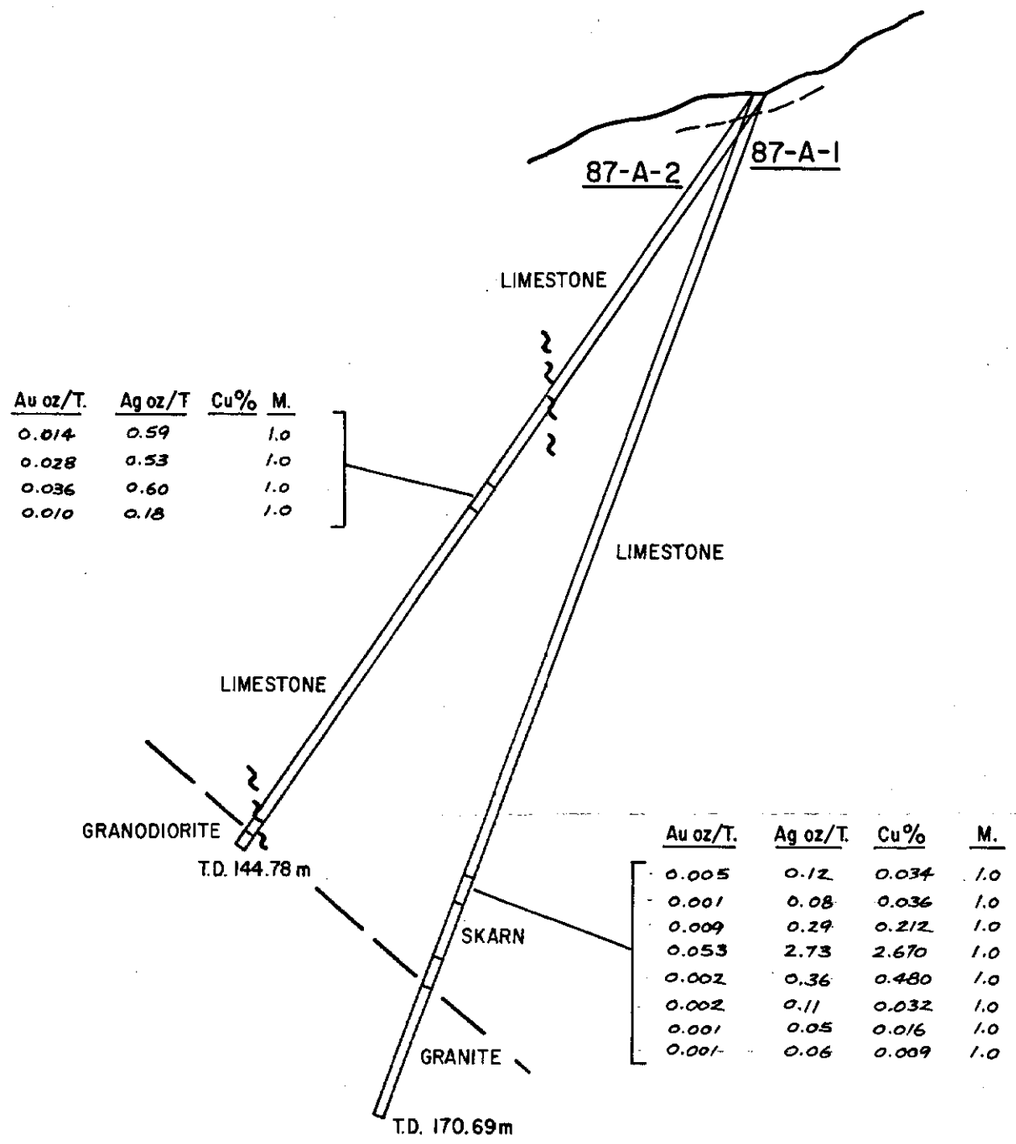
MAGNETOMETER SURVEY

DATE: MARCH 82	DATA: S.C.
N.T.S.: 94E/2W	DRAWN: C.G.
SCALE: 1:2,000	CHECKED:

100 80 60 40 20 0 20 40 60 80 100 Metres

FIGURE:

15



Au oz/T.	Ag oz/T	Cu%	M.
0.014	0.59		1.0
0.028	0.53		1.0
0.036	0.60		1.0
0.010	0.18		1.0

Au oz/T.	Ag oz/T.	Cu%	M.
0.005	0.12	0.034	1.0
0.001	0.08	0.036	1.0
0.009	0.29	0.212	1.0
0.053	2.73	2.670	1.0
0.002	0.36	0.480	1.0
0.002	0.11	0.032	1.0
0.001	0.05	0.016	1.0
0.001	0.06	0.009	1.0

0 10 20 40 60 80
METRES

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

TANUTA VENTURES CORP.

DIAMOND DRILL HOLE SECTION 87-A-1, 87-A-2

AZIMUTH 281°, LOOKING NORTH

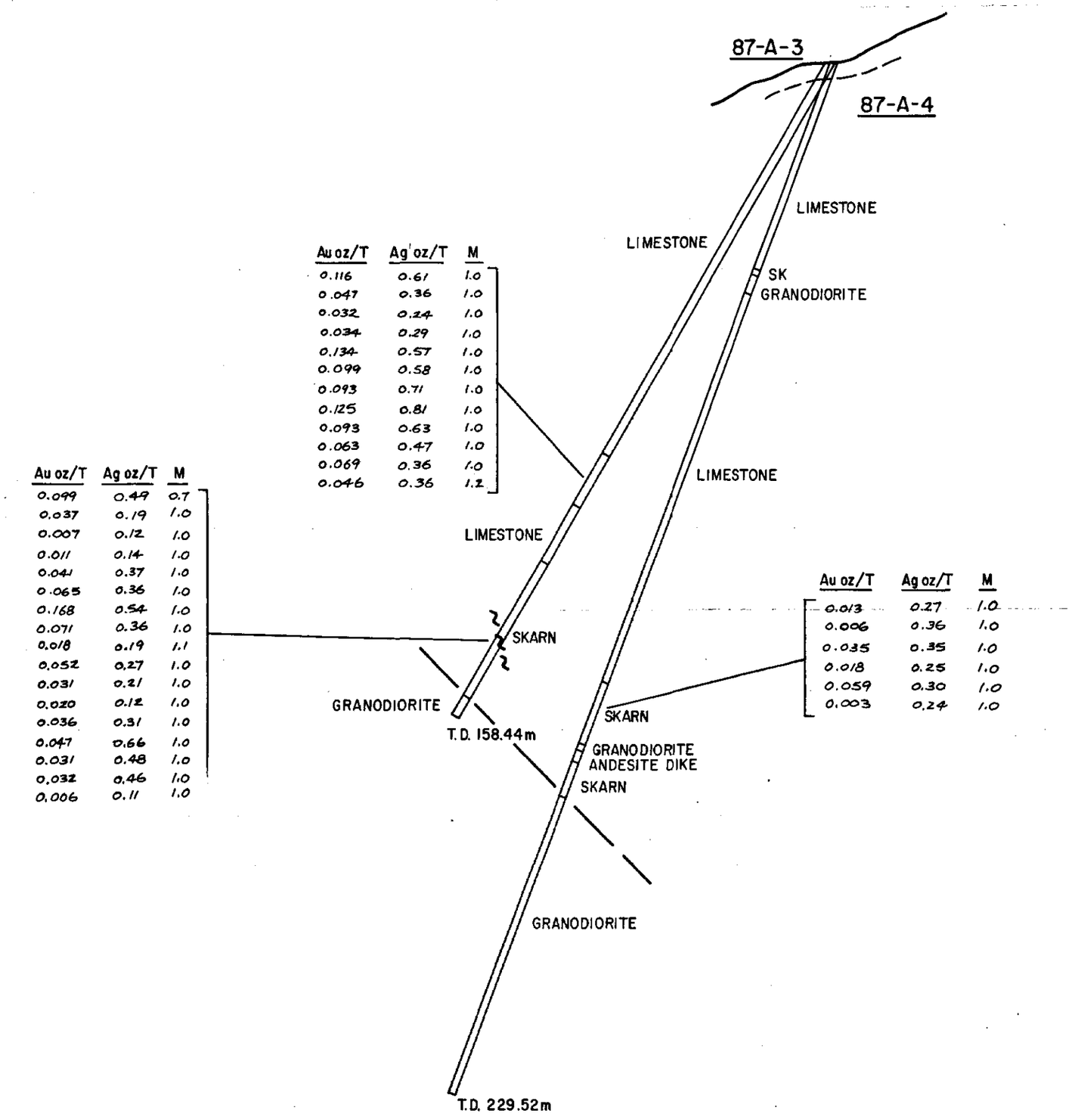
STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED.	J.R.P.	PLAN No.
SCALE.	1:1000	DATE.	OCT. 15, 1997	16

MAP 15



Au oz/T	Ag oz/T	M
0.116	0.61	1.0
0.047	0.36	1.0
0.032	0.24	1.0
0.034	0.29	1.0
0.134	0.57	1.0
0.099	0.58	1.0
0.093	0.71	1.0
0.125	0.81	1.0
0.093	0.63	1.0
0.063	0.47	1.0
0.069	0.36	1.0
0.046	0.36	1.2

Au oz/T	Ag oz/T	M
0.099	0.49	0.7
0.037	0.19	1.0
0.007	0.12	1.0
0.011	0.14	1.0
0.041	0.37	1.0
0.065	0.36	1.0
0.168	0.54	1.0
0.071	0.36	1.0
0.018	0.19	1.1
0.052	0.27	1.0
0.031	0.21	1.0
0.020	0.12	1.0
0.036	0.31	1.0
0.047	0.66	1.0
0.031	0.48	1.0
0.032	0.46	1.0
0.006	0.11	1.0

Au oz/T	Ag oz/T	M
0.013	0.27	1.0
0.006	0.36	1.0
0.035	0.35	1.0
0.018	0.25	1.0
0.059	0.30	1.0
0.003	0.24	1.0

0 10 20 40 60 80

METRES

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J. R. POLONI

TANUTA VENTURES CORP.

DIAMOND DRILL HOLE SECTION 87-A-3, 87-A-4

AZIMUTH 234°, LOOKING N.W.

STAR, PUL, SUN, SKARN CLAIMS

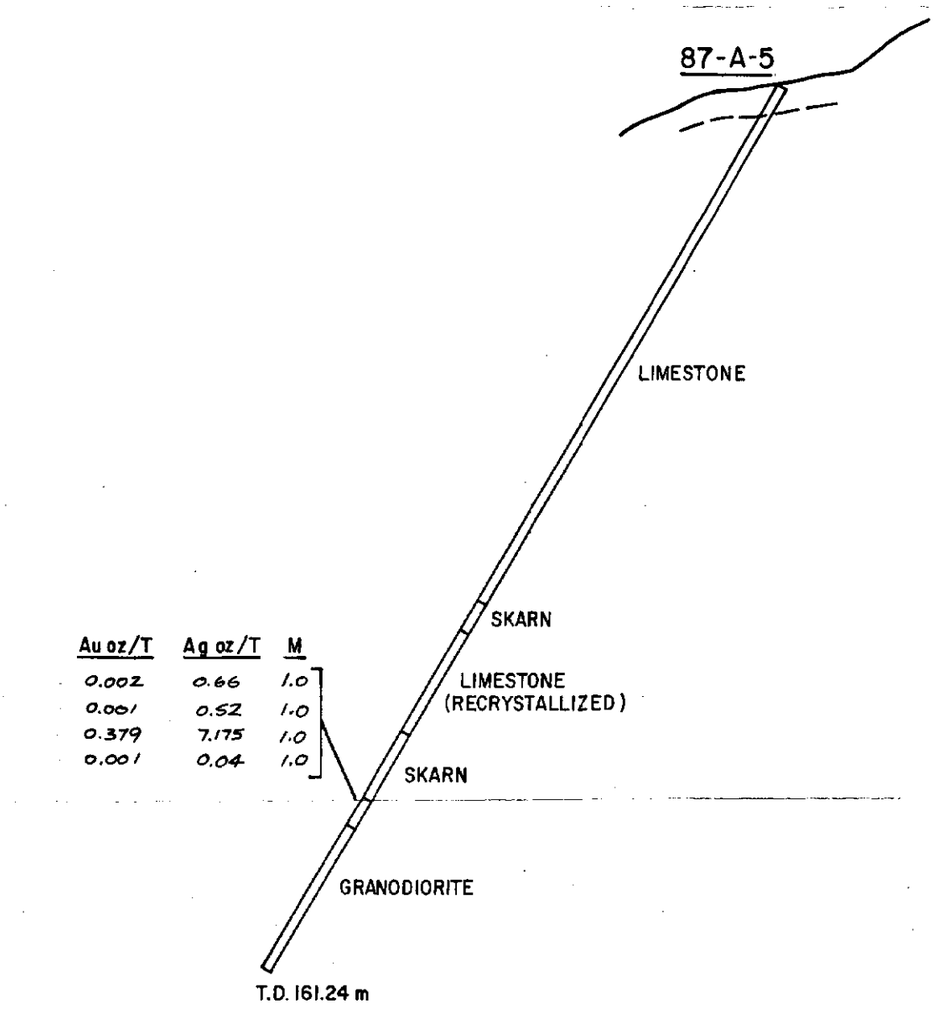
OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED.	J.R.P.	PLAN No.
SCALE.	1:1000	DATE.	OCT. 15, 1997	17

MAP 16

17



0 10 20 40 60 80
METRES

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. R. POLONI

TANUTA VENTURES CORP.

DIAMOND DRILL HOLE SECTION 87-A-5

AZIMUTH 281°, LOOKING NORTH

STAR, PUL, SUN, SKARN CLAIMS

OMINECA MINING DIVISION, B.C.

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN.	J.R.P.	CHECKED.	J.R.P.	PLAN No.
SCALE.	1: 1000	DATE.	OCT. 15, 1997	18

MAP 17