

86-758-15358

GEOCHEMICAL, GEOPHYSICAL AND PROSPECTING REPORT

ON

BABINE CLAIM

RECORD #7270

OMINECA MINING DIVISION

NTS: 93K/6W

Latitude:  $54^{\circ} 28.5'$  N. (UTM 6039000M N.)

Longitude:  $125^{\circ} 28.5'$  W. (UTM 341000M E.)

Owners and Operators: Eric A. Shaede 50%  
Lorne B. Warren 50%

FILMED

Author: Eric A. Shaede

Date: November 25, 1986  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

15,358

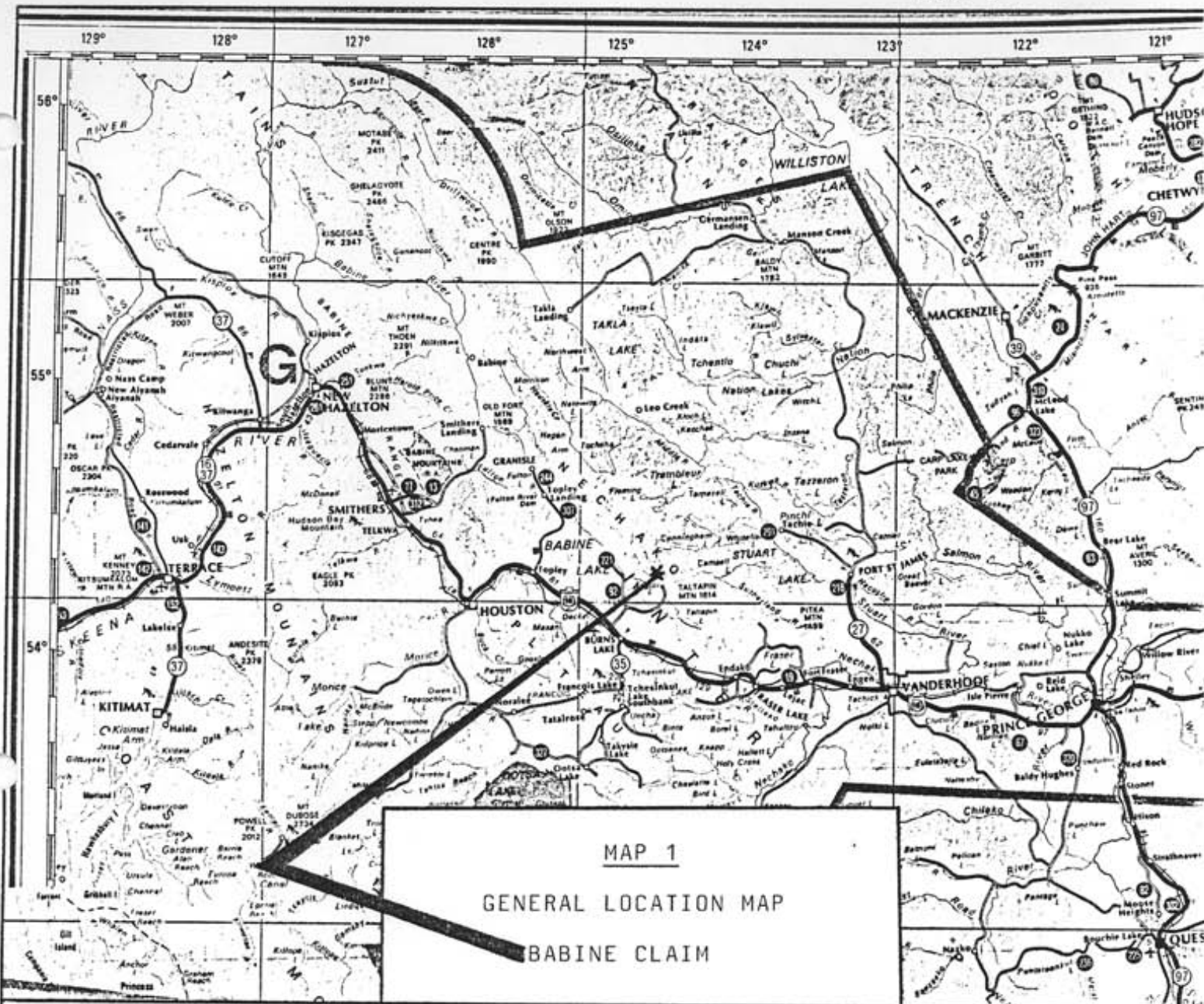
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INTRODUCTION:

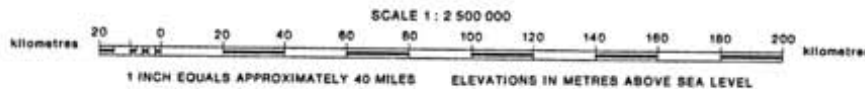
1. Property Description: The Babine property consists of a single metric grid claim of 18 units (3Nx6E), record number 7270 in the Omineca Mining Division. The legal corner post is located 0.5km N50<sup>0</sup>E of Boling Point on the north shore of Babine Lake in northwestern British Columbia. The recorded owners of the claim are Eric A. Shaede of R.R. #1, Sicamous, B.C., V0E 2V0 and Lorne B. Warren of P.O. Box 662, Smithers, B.C., V0J 2N0. The claim was recorded September 30, 1985 and covers previously discovered showings of lead, zinc, silver and gold mineralization.

2. Location and Access: The Babine claim is located on the north shore of Babine Lake, approximately 32km by air northeast of Burns Lake, B.C.. The claim covers the area immediately east of Boling Point and is directly north across the lake from the Pinkut Creek Fisheries spawning channel operations. There is no direct access to the property by road. Access across Babine Lake by boat is the most economical route. Boats are available for rent at Pendleton Bay area resorts located about 15km northwest of the property and accessible by good gravel road from highway 16 at Burns Lake. Closest road access to Babine Lake is at the Pinkut Creek Fisheries operation where boats can be launched but no rental boats or accomodation are available. The nearest road to which access to the property could be constructed from is located about 13km northeast at Cunningham Lake. Helicopter landing sites are available on the property at several locations and closest charter location is Burns Lake. Maps 1,2 and 3 show the location of the



# BRITISH COLUMBIA

## Road Map and Parks Guide



- ROADS**
- Multi-Lane Highway - with or without interchange
  - Major Highway - paved
  - Major Highway - improved gravel
  - Other Highway - paved
  - Other Highway - gravel
  - Road - paved
  - Other Road - gravel or dirt
- ROUTES**
- Trans-Canada Highway
  - Crownsnest Highway
  - Yellowhead Highway
  - Interstate Highway - U.S.A.
  - Major or Other Highway

- DISTANCES**
- Kilometres Between Major Locations and Junctions
- TRANSPORTATION**
- Railroad
  - Ferry
  - Scheduled Airline Stop
  - Scheduled Harbour Landing
- BOUNDARIES**
- Local Time Zone
  - Tourist Region
  - International
  - Provincial
  - State

- LOCATIONS**
- VANCOUVER** Major city
  - VICTORIA** Capital City
  - QUESNEL** City
  - SALMON ARM** District
  - PARKSVILLE** Town
  - GOLD RIVER** Village
  - Albert Canyon** Settlement
  - Bear Cove** Ferry Landing

- TOURIST FEATURES**
- Tourism British Columbia Information Centre (See reverse side for listings)
  - Rest Area With Toilet
  - Parks With Vehicle/Tent Campsites
  - Vehicle/Tent Campsite locations within major parks
  - Parks Without Vehicle/Tent Campsites
  - Ski Area
  - Ports of Entry - 24 hour / enquire locally
  - Pass (See reverse side for elevations)
  - Dam
- NOTE: For further information on parks refer to Parks Index on reverse side.
- NOTE: Tunnels and bridges are toll free

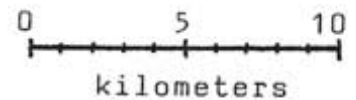
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Map Base from Surveys & Resource Mapping Branch, Ministry of Environment.

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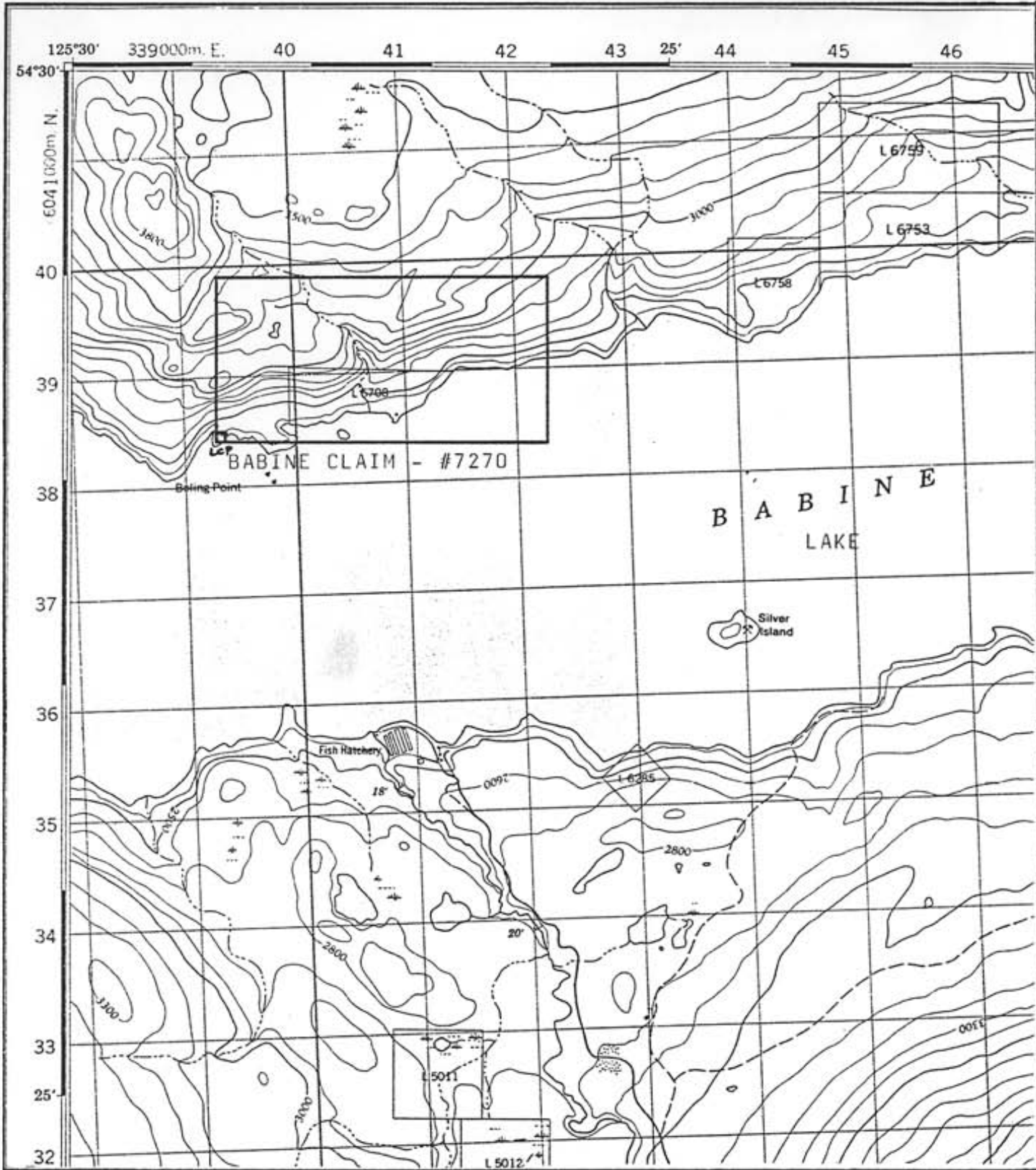
MAP 2

INDEX MAP  
BABINE CLAIM



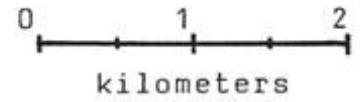
NTS: 93K Scale = 1:250,000





MAP 3

DETAILED INDEX MAP  
BABINE CLAIM



NTS: 93K/6 Scale = 1:50,000

property relative to highways, logging roads and topography.

3. Physiography: The claim area is mostly covered with an open aspen and spruce forest with a fairly heavy undergrowth of wild rose and other brush. Relief is moderately steep for about 1km north of the lakeshore with elevation increasing from 712M at lake level to about 1000M then leveling off somewhat. Several areas of good rock exposure are present on the property but the majority of the claim area is covered with thin rocky residual soils. A small creek cuts through the center of the property and provides a good flow of water during parts of the year but flow ceases during late summer and fall. The low relative elevation, south exposure and climatic influence of Babine Lake results in the property being snow free from about April to November. Snowfall is not heavy in the area and year-round mining operations could easily be carried on.

4. Previous Work: There is very little published information available on the mineral occurrences on the Babine claim. The MinFile Reference number is 93K/28. The showings were apparently discovered in the 1920's and were explored by Silver Island Mining Company in the late 1920's and early 1930's. However, the property, then known as Boling or Venture, is only very briefly mentioned in the Minister of Mines Annual Report for 1928 and G.S.C. Paper #38-10. Two private, unpublished reports were obtained which indicated that a number of silver-lead-zinc veins occur on the property and that Silver Island Mining Company drove two

exploration tunnels on the claims (then known as Sunrise and Sunrise No.1) in the early 1930's. The tunnel driven on the Sunrise claim is reported to have intersected a 4' wide vein with an 8" paystreak of galena assaying \$44.50/ton in 1930's metal values for lead, zinc, silver and gold at a depth of 400' from surface. This tunnel was apparently then driven a further 73' but did not intersect the next of a series of five veins mentioned as outcropping on surface. It is suspected that the tunnel was not driven further because of ventilation problems. A second tunnel was then reported to be driven on the adjacent Sunrise No.1 claim under a vein which was rumored to have produced \$1000 worth of native silver from a surface open cut. This second tunnel was reported to have been driven 185', when the Company was forced out of business by the Depression.

There are no records of any exploration work having been done on the property between 1935 and 1985. The property was held by a Miss Nora Campbell who paid cash-in-lieu of work for many years prior to her death in 1983. The current property owners acquired the property by staking after the Estate of Miss Campbell allowed their claim (Nora- record #103) to forfeit.

The geology of the general area was mapped by J.E. Armstrong and others between 1936 and 1944. GSC Map #907A shows the claims area to be underlain by Cache Creek group greenstones, ribbon cherts, argillites, argillaceous quartzites and limestones of Pennsylvanian and Permian age, intruded by a Jurassic Topley diorite body.



5. Scope of Present Work: 10 man-days of prospecting covering an area of about 100 hectares was carried out to locate and sample some of the reported surface showings and underground workings. A total of 49 rock samples, 4 soil samples and 1 stream sediment sample were collected during this prospecting work. These samples were analysed for a variety of elements. Subsequently, 6 man-days were spent on the property collecting 80 soil samples along 4 reconnaissance lines totalling 1.9 km. These soils were analysed for 30 elements by ICP and for gold by AA. A reconnaissance VLF-EM survey was also conducted over the same 4 lines used for soil sampling in order to test for the presence of EM conductors.

## RESULTS:

1. General Prospecting - Rock Sample Geochemistry: The area on both sides of the creek near the center of the claim block was prospected in search of the old workings and showings mentioned in the old private reports. Also outcrop and float on the lakeshore in the vicinity of the LCP and eastward to the east claim boundary was examined and sampled.

Samples 1-8 were taken by the author and partner L.B. Warren during September 1985 after the claim had been staked. Samples 9-34 were taken during a prospecting trip May 15-17, 1986. Samples 35-44 were taken during an examination of the underground workings of the East adit on June 23, 1986. Samples 45-50 were taken from the area west of the West adit on June 24, 1986. Samples 51-56 were taken by the author during July and August, 1986.

The samples were sent either to Min-En Laboratories Ltd. or to Vangeochem Labs Limited, both of North Vancouver, B.C., where geochemical analyses and assays were performed. Most samples were analysed using the standard aqua-regia leach and ICP detection procedure for multi-element data. Some samples were also analysed by standard atomic absorption procedures. Gold analyses were generally done by a fire assay preconcentration with atomic absorption readout. A few samples were assayed for gold and silver.

Map 4 shows the location of all prospecting samples taken and lists the silver, gold, copper, lead and zinc values measured. Table 1 gives a detailed description of the samples. All analyses certificates are included in Appendix 1.

A large mine dump and caved portal of an adit was found about 250M west of the creek at an elevation of about 70M above lake level. An old horse trail leads to the dump from the lakeshore near the mouth of the creek. This trail was slashed out to facilitate access and the trees on the dump were cut down to make a helicopter landing site. The portal of the adit was badly caved in with rock and debris as it was located in an area of talus slide. The tracks extending out from the workings indicate that the tunnel was driven at a heading of about  $335^{\circ}$ . Steam pipe and the remains of an old boiler set-up indicate that the drift was driven with a steam drill. An attempt was made in June 1986 to dig out and retimber this portal, but was not successful due to large rocks and lack of adequate timbers on site. An old report indicates that this tunnel is 473 long. Sample #17 was taken from the dump of this adit which is referred to as the West adit herein.

A short (2M) adit was found on the steep hillside about 200M west-northwest of the West adit dump at an elevation of about 120M above lake level. This adit was driven on a narrow honeycomb quartz vein dipping about  $60^{\circ}$ NW and striking NE. This narrow vein pinches and swells along the exposed strike of about 50M east of the adit to where it disappears under overburden. The quartz is sporadically mineralised with galena, sphalerite and tetrahedrite and is badly leached from exposure to weathering. The wall rock is a foliated greenstone with carbonate alteration. Sample 8 was picked from the dump beside the short adit and samples 47 and 48 were taken from the vein.

On the steep hillside below and above this vein and adit, several other small trenches were found on veins and shear zones and several veins were found that had not been trenched. These zones were not mapped in detail due to poor exposure, complexity due to cross faulting, and limited access due to the steep slope. Samples 45, 46, 49 and 50 were taken from some of these showings.

On the hillside directly north about 100M from the West adit portal, two shallow trenches were found on mineralized quartz-carbonate veins. These veins were poorly exposed in the old trenches which were overgrown and sloughed in and the strike, dip and width of these veins could not be determined accurately. Samples 12, 13, 14, 15 and 16 were taken from this area. About 40M further up the hill, a narrow, steeply dipping barren quartz-carbonate vein was found at station 1+40N on Line 2E. This vein strikes about  $030^{\circ}$  and is exposed for about 50M west of the line. Sample number 53 was taken from this structure.

The portal of the second major underground workings on the property was found on the steep hillside about 700M east of the creek at an elevation of about 155M above lake level. This tunnel was driven in a solid rock face and the drift was open and in good condition to the face about 85M from surface. It appears that this drift was driven with hand-steel and a wheelbarrow. This adit (called the East adit herein) was surveyed by hip-chain and compass. Map 5 is a plan of the underground workings showing the locations of the samples 36 to 44 which were taken from the drift walls and back. The walls and back were covered with a thick coating of grime from the original blasting operations as no water is available nearby for washdown purposes. The drift is collared in a greenstone schist and roughly crosscuts the bedding which strikes about  $085^{\circ}$  and dips about  $40^{\circ}$ N. The drift cuts through a number of shear zones and veins with quartz and carbonate alteration and pyrite mineralization. Because of the complexity of the geology and the poor exposure due to grime on the walls, the drift was not mapped in detail.

An old open cut is located on the steep hillside about 20M above the portal of the East adit. This cut is largely filled in with gravel and soil from the hillside above it. A small pile of quartz-carbonate vein rock with minor mineralization was found at the base of the cut near an old claim post. Two small pieces of quartz-carbonate vein material with visible native silver were found in the talus at the east edge of the open cut. These samples, #24, 24A, were assayed and confirmed the presence of native silver with significant gold values. Poorly exposed bedrock at the west

and east edges of the open cut is a silicified banded sedimentary rock (quartzite ?) with considerable carbonate alteration and fine disseminated pyrite. A poorly exposed, barren quartz-carbonate vein striking about E-W and dipping about  $50^{\circ}$ N is present in this silicious, banded rock unit. The wall rock was sampled as #25 and resampled as #56 and the vein material was sampled as #28. A soil sample (#30) was taken from the poorly developed B horizon of the rocky residual soil at the west edge of the open cut. Several other soil samples and rock samples were taken in the vicinity of this open cut and adit.

A number of other prospecting samples were collected from various locations on the property as shown on Map 4 and listed in Table 1. It is important to note that most of the vein samples collected from the various open cuts and trenches were badly weathered and obviously a considerable amount of the original mineralization had been leached from the rock as evidenced by their porous, vuggy nature.

2. Soil Geochemistry Reconnaissance Survey: A soil sampling program consisting of 4 short lines totalling 1.9 km was conducted in the vicinity of the known showings to determine if these zones produced discernable soil anomalies and to search for possible extensions of the zones and new zones. Three of the lines were sampled at 25M intervals and the fourth at 12.5M stations. The lines were run with hip-chain and compass and no corrections were made for slope induced error which was significant in some places.

Soil samples were collected at the stations using a standard round-mouthed shovel to dig a hole. All of the soils on the hillside portions of the lines were found to be very rocky, poorly developed residual soils. Samples were taken from a reddish brown layer at a depth of about 5-20 cm. Due to the dry, rocky condition of these soils it was often not possible to distinguish a distinct B layer and whatever soil was available was taken excluding any obvious organic material. On lines 1E and 3E, a deep silty soil was found in the flat areas near the lakeshore. This soil is probably old lake sediments and did not exhibit a well defined B horizon. A greyish soil from the silty layer under a thick humus cover was sampled at a depth of about 20cm. Samples were collected in standard kraft envelopes and sent to Acme Laboratories Limited in Vancouver, where the samples were dried, sieved to 80 mesh and analysed. A 30-element ICP analysis with standard aqua-regia leach was performed and a separate 10 gram portion of each sample was used for a gold determination by aqua-regia leach, MIBK extraction and atomic absorption analysis. All of the analytical data are listed in Appendix 2. The silver, copper, lead and zinc data are plotted on Map 6. An insufficient number of samples were taken to perform detailed statistical analysis of the results.

3. VLF-EM Reconnaissance Survey: A VLF-EM survey was run on the same lines as used for the soil sampling program in order to test the conductivity of the known zones of mineralization and search for other conductive zones on the property. A Phoenix VLF-2

receiver was used to measure the dip angle and horizontal field strength at each station for signals from Cutler, Maine (24.0kHz) and Seattle, Washington (24.8kHz) VLF transmitters. All dip angle readings were taken while facing the direction of the transmitter (east or south respectively) and the dip angles were recorded as being positive when the top of the instrument pointed south for Cutler and west for Seattle. Horizontal field strength was set at station 0+00 of each line to be about 150% and the readings at other stations on the line were measured while facing the same direction of  $90^{\circ}$  to the direction of the transmitter. The field data are plotted on Map 7 for measurements of Cutler signal. The data for Seattle show similar but weaker trends and are not plotted but are given in Appendix 3. Figure 1 shows the Cutler data plotted in a graphical form from which it is evident that a number of conductors are detected by the survey.

The strong anomaly measured at the ends of lines 1E and 2E was traced along strike to the creek valley by following the maximum horizontal field strength. A strong shear zone is evident crossing the creek in diorite wall rock with a steep southerly dip and approximate E-W strike at the point of maximum HFS. The zone is mineralised with fine pyrite and sample # 11 had been taken from this structure earlier. The magnitude of the HFS increase in the vicinity of the shear in the creek bed was significantly less than that observed at the ends of lines 1E and 2E.

TABLE 1  
BABINE CLAIM  
PROSPECTING SAMPLE DESCRIPTIONS

<u>SAMPLE NUMBER</u>	<u>DESCRIPTION</u>
1.	Float from lakeshore near LCP - buff colored carbonaceous rock with fine black minerals.
2.	Outcrop near I.D. post 2N. Schistose rock with quartz stringers and minor zinc oxides(?).
3.	Shear zone in creek bed about 400M from lakeshore approximately 1M wide with quartz and mariposite.
4.	Outcrop on lakeshore near LCP - banded carbonaceous schist with quartz stringers.
5.	Float from lakeshore near LCP - quartz-carbonate vein rock with galena and sphalerite.
6.	Float from lakeshore near LCP - quartz-carbonate vein rock with galena and sphalerite.
7.	Diorite intrusive rock from several outcrops along the north claim boundary.
8.	Grab sample of quartz-carbonate vein rock with minor galena, sphalerite and tetrahedrite from dump near short adit.
9.	Float from creek bed - angular quartz-carbonate vein rock with fine pyrrhotite.
10.	Grab sample of sheared rock with quartz stringers and fine pyrite from minor shear zone at edge of creek.
11.	Grab sample of sheared diorite with quartz and fine sulfides from major shear zone in creek bed below small waterfall.
12.	Grab sample of selected quartz vein rock with galena from upper trenched area above West adit.
13.	Grab sample of vuggy quartz vein rock with minor galena and chalcopyrite from upper trenched area above West adit.



TABLE 1 cont.

SAMPLE NUMBER	DESCRIPTION
14.	Grab sample of weathered quartz with galena and honey-colored sphalerite from lower trenched area above West adit.
15.	Grab sample of dark green schistose rock with fine pyrite from wall of trench above West adit.
16.	Grab sample of silicious vein rock with no visible mineralisation except siderite stains from upper trenched area above West adit.
17.	Selected sample of small pieces of weathered-oxidized vein rock with galena from surface of dump at West adit.
18.	Chip sample across 0.4M of bluish quartz vein with minor pyrite from 0.5M wide vein exposed on shoreline. Strike about $320^{\circ}$ . Dip about $45^{\circ}$ NE.
19.	Chip sample across 0.8M of footwall rock adjacent to vein sampled by 18. Rock is heavily altered with silica and carbonate.
20.	Grab sample from float boulder on beach - quartz-carbonate vein rock with fine crystals of pyrite.
21.	Pan concentrate from gravels of creek near center of claim. 1 pan from creek about 200M above mouth and 1 pan from delta at shoreline, each reduced to $\frac{1}{4}$ pan and combined. Heavy minerals concentrated from this material in lab before analysis.
22.	Prospecting sample- south shore of Babine Lake - not relevant to this report.
23.	Same as #22.
24.	Small piece of quartz-carbonate vein rock with visible native silver from talus at east edge of open cut above East adit.
24A.	Second sample similar to sample 24 from same location.
25.	Grab sample of silicious sedimentary rock with fine sulfides from outcrop at west edge of open cut above East adit.

TABLE 1<sup>cont.</sup>

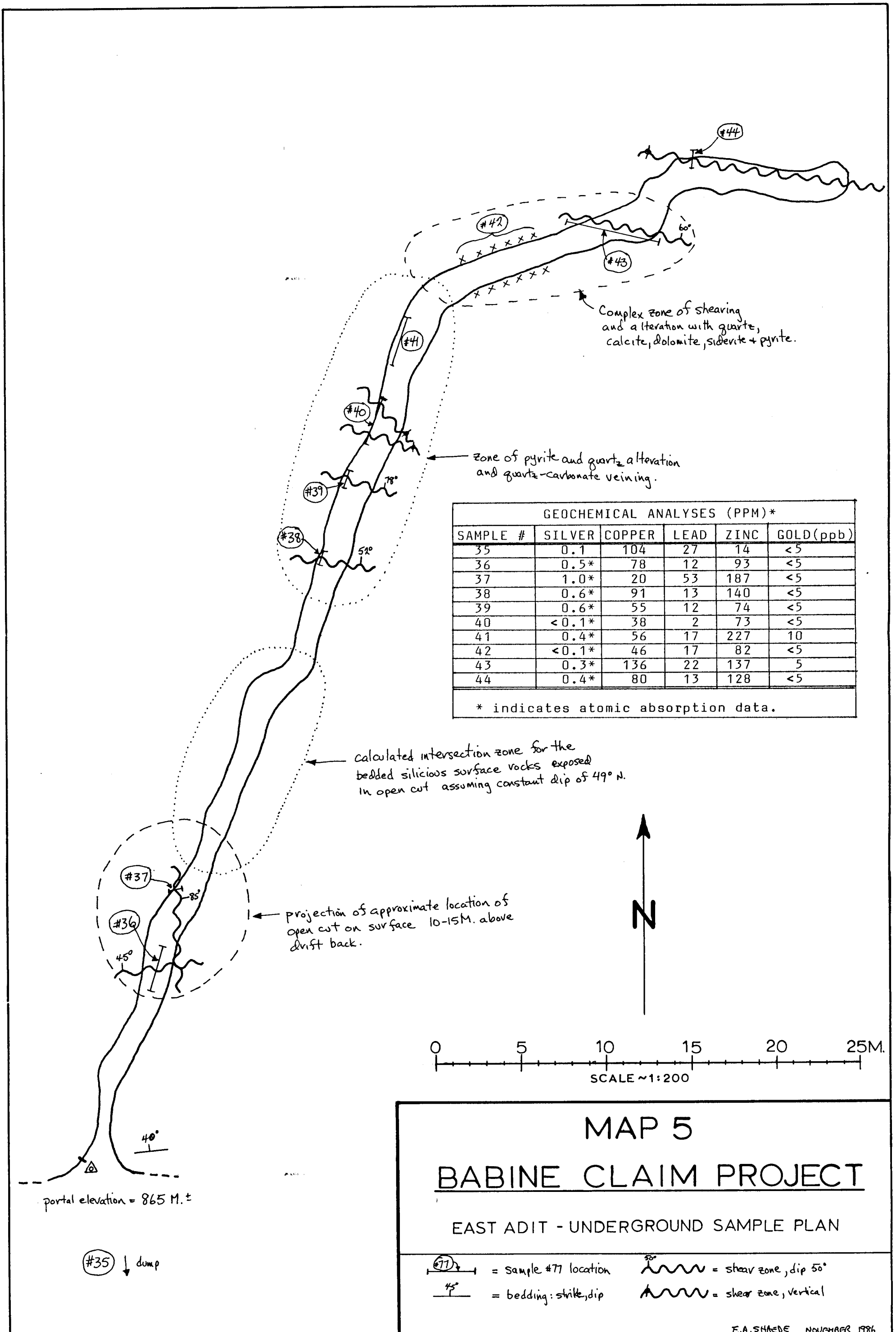
<u>SAMPLE NUMBER</u>	<u>DESCRIPTION</u>
26.	Grab sample of quartz-carbonate vein rock from old trench about 35M west of East adit.
27.	Sample not analysed. Float rock similar to sample #25 found about 60M west of East adit.
28.	Grab sample of several pieces of quartz-carbonate vein rock with iron stain and minor copper stain. Samples from talus at bottom edge of open cut above East adit - very similar to vein exposed in cut.
29.	Soil sample from about 20M east of East adit. Reddish brown rocky residual soil.
30.	Soil sample from west edge of open cut above East adit. Reddish brown rocky residual soil.
31.	Soil sample from edge of old trench 35M west of East adit. Reddish brown rocky residual soil.
32.	Soil sample from about 60M west of East adit. Reddish brown rocky residual soil.
33.	Prospecting sample from area east of claim - not relevant to this report.
34.	Same as #33.
35.	Small specimen of sheared quartz with arsenopyrite(?) from dump below East adit.
36.	Underground sample - East adit - 0+12M. 2.5M chip sample across back of drift in area of shearing with quartz veins and pyrite. Zone dips 45°N and strikes 082°. Contacts with wall rock are indistinct.
37.	Underground sample - East adit - 0+15.6M. Chip sample across narrow shear zone in several places on walls of drift. Shear is 15-20cm wide, strikes 0°, dips 85°E and contains quartz and carbonate.
38.	Underground sample - East adit - 0+38M. Chip sample across 1M on west wall includes quartz-carbonate vein striking 098° and dipping 52°N.

TABLE 1 cont.

SAMPLE NUMBER	DESCRIPTION
39.	Underground sample - East adit - 0+43M. Chip sample across 1M of twin shears with quartz and pyrite on west wall. Strike about $107^{\circ}$ and dip about $78^{\circ}$ N .
40.	Underground sample - East adit - 0+46M. Chip sample across 1.5M of complex zone of shearing with quartz and fine sulfides on west wall. South shear strikes $108^{\circ}$ and dips $90^{\circ}$ . North shear strikes $140^{\circ}$ and dips $90^{\circ}$ .
41.	Underground sample - East adit - 0+50-53M. Chip sample along 3M of west wall of complex zone of shearing and alteration.
42.	Underground sample - East adit - 0+57-64M. Grab sample from along about 7M of both walls of complex zone of shearing with dolomite, quartz, calcite, siderite and pyrite.
43.	Underground sample - East adit - 0+64-71M. Chip sample from several places across 30cm wide well defined shear zone with greenish quartz and pyrite, striking $104^{\circ}$ and dipping $60^{\circ}$ N .
44.	Underground sample - East adit - 0+74M. Chip sample across 40cm wide shear zone with quartz vein with pyrite on north wall striking $098^{\circ}$ and dipping $90^{\circ}$ .
45.	Grab sample from narrow, flat lying, quartz-carbonate vein with galena, sphalerite and tetrahedrite at base of cliff, just west and above West adit.
46.	Chip sample across 0.6M of shear zone with vuggy quartz and calcite crystals and siderite from small open cut west and above West adit.
47.	Grab sample of variety of honeycombed quartz vein rock specimens with minor mineralization from along about 50M of narrow, flat lying vein about 200M west of West adit. A short old adit is driven on the west end of the vein exposure. Vein contains small amounts of galena, sphalerite, tetrahedrite, siderite, azurite and malachite.

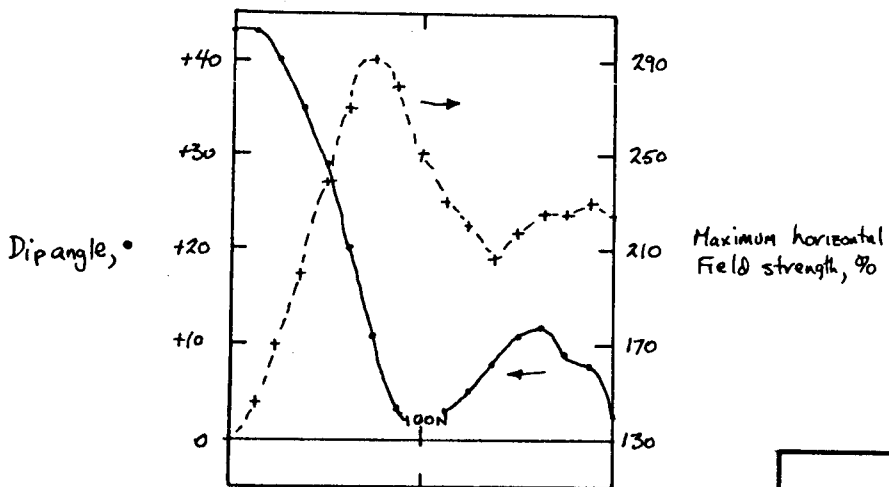
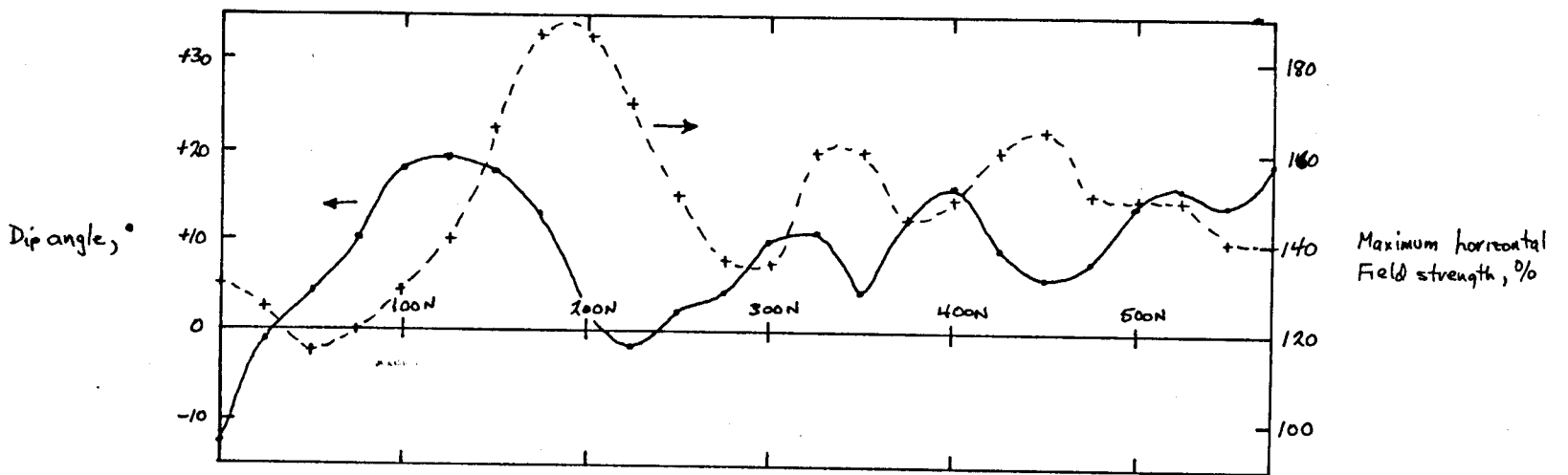
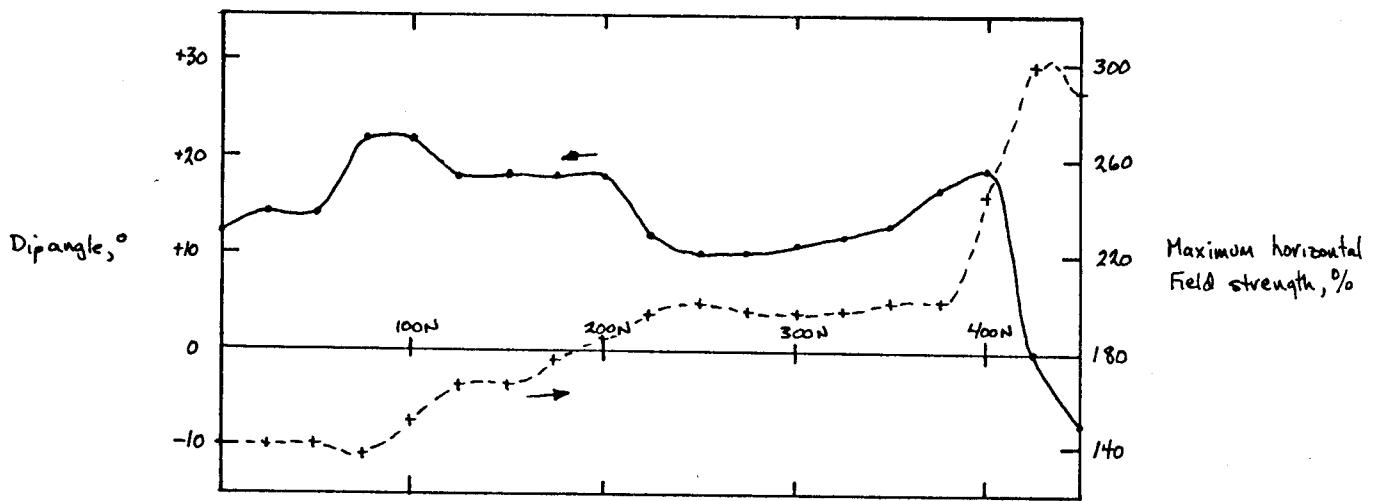
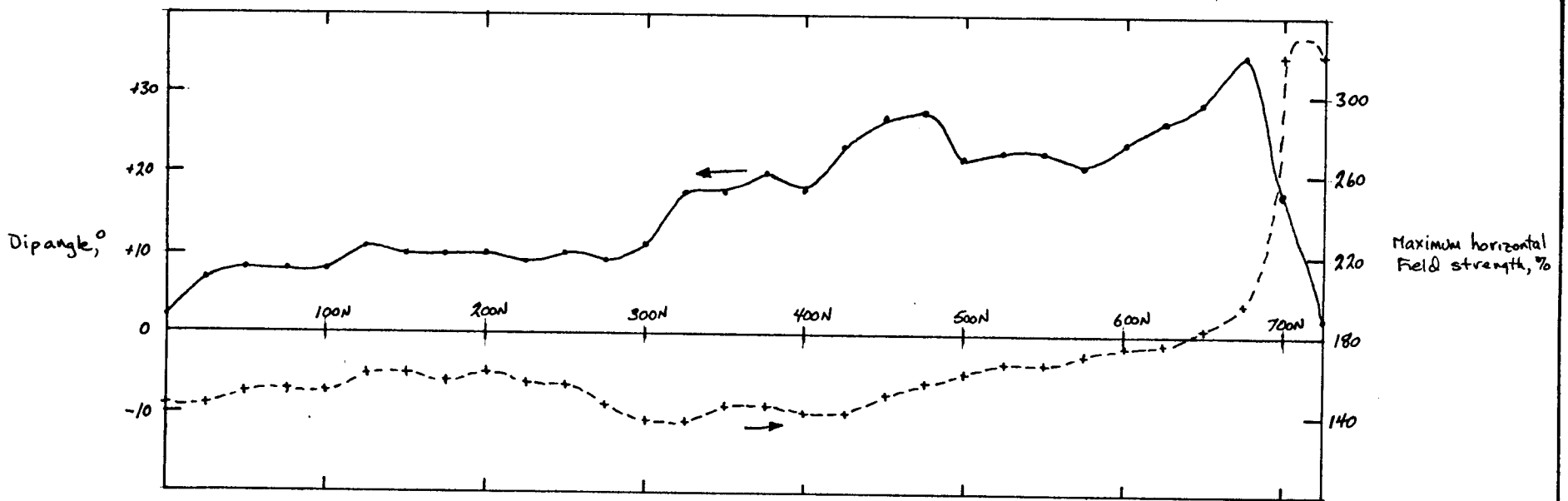
TABLE 1 cont.

SAMPLE NUMBER	DESCRIPTION
48.	Grab sample of selected vein rock with substantial amount of galena and sphalerite from same location as #47.
49.	Grab sample of several pieces of "bull" quartz with streaks of wispy black mineral from zone of quartz veins up to 0.3M wide located above short adit.
50.	Chip sample across 0.4M of complex zone of shearing with barite(?), carbonate veining with galena, sphalerite, tetrahedrite and chalcopyrite from small open cut near crest of hill above short adit.
51.	Grab sample of milky bluish quartz vein rock from outcrop in bush above West adit - exact location not known. Quartz is similar to sample #49.
52.	Chip sample across 0.6M of narrow zone of banded quartz stringers with pyrite at 200M NE of East adit.
53.	Grab sample of several pieces of barren quartz-carbonate vein rock from narrow vein at 1+40N on line 2E. Vein strikes E-W and dips steeply.
54.	Large chip sample across 0.6M of vuggy quartz vein with siderite and manganese stain in old trench at 0+08N on line 4E.
55.	Large grab sample of pieces of quartz-carbonate vein rock with minor sulfides from edge of old caved in trench near top of clearing west of line 3E.
56.	Chip sample across 0.4M of banded, silicious rock unit exposed at west edge of open cut above East adit. Resample of sample #25 to check silver values.



GEOCHEMICAL ANALYSES (PPM)*					
SAMPLE #	SILVER	COPPER	LEAD	ZINC	GOLD(ppb)
35	0.1	104	27	14	<5
36	0.5*	78	12	93	<5
37	1.0*	20	53	187	<5
38	0.6*	91	13	140	<5
39	0.6*	55	12	74	<5
40	<0.1*	38	2	73	<5
41	0.4*	56	17	227	10
42	<0.1*	46	17	82	<5
43	0.3*	136	22	137	5
44	0.4*	80	13	128	<5

\* indicates atomic absorption data.



**FIGURE 1**  
**BABINE CLAIM PROJECT**

VLF-EM SURVEY DATA PLOT  
(Cutler, 24.0kHz.)

E.A. SHAEDE NOVEMBER, 1986

DISCUSSION:

1. General Prospecting - Rock Sample Geochemistry: The rock samples taken from the surface showings in the vicinity of the West adit confirm the presence of several vein and shear zone structures with some significant silver values, minor gold values and lead-zinc sulfides. The showings were not explored in sufficient detail to draw any conclusions as to their economic potential. The two veins located immediately north of the West adit portal appear to be significant structures and their downward extensions are believed to be the target of the exploration drift. These two trenches need to be opened up by blasting to enable more accurate assessment of the character of the veins and determination of their width, strike and dip. The portal of the West adit also needs to be opened up to allow surveying, geological mapping and sampling of these underground workings.

The mineralized structures found to the west of the West adit may be extensions of the veins sampled above the West adit or they may be different structures. The area was not mapped in sufficient detail to enable any firm conclusions to be drawn and future work will be required to obtain more information on these showings.

No general conclusions can be drawn as to the character or possible origin of the mineralization on the property from the limited amount of geochemical data obtained. It appears that the silver values do not correlate with any of the base metals and the presence of native silver was confirmed by visual examination of polished sections of the highest grade vein specimens ( #24, 24A).

Since native silver is easily leached from surface exposed rocks, the relatively low silver values found for many of the surface vein samples may be due to loss of silver by leaching.

The two pieces of high grade float ( #24, 24A) found on the surface near the East adit lend some support to the validity of the old report which mentions the mining of \$1000 worth of native silver from the open cut. However, the mineralization was not found in place and the open cut will have to be cleaned out in order to confirm it as the suspected source of the float. The samples taken underground in the East adit failed to locate any mineralization of economic interest. However, on careful review of the trace element analyses data for the underground samples and the high grade surface sample #24, it was found that sample #37, taken from a narrow, steeply dipping, north striking shear-vein, gave similar aluminum, potassium, calcium, manganese, molybdenum, lead, strontium and zinc values to those of the high grade sample. Therefore it is suspected that this structure either is the source of the surface high grade or else it is an off-shoot of the source. The strike of the bedding of the country rock and the presence of small old trenches located east and west of the East adit, had led us to believe that the target of the East adit was an E-W striking vein. However, the possibility of a N-S striking vein is now indicated. An alternative theory is that the important mineralization strikes E-W in the open cut but the samples taken underground did not test the zone where this mineralization would have been intersected by the drift as shown on map 5. These theories will have to be tested by more careful mapping and sampling of the



underground workings in the future. Neither of these theories will explain why the East adit was driven so far beyond the projected area of intersection with the zone of rocks exposed in the open cut. It is difficult to believe that the old-timers would have driven this long tunnel by hand purely on speculation.

The general prospecting samples taken in several places on the property indicate there are a number of zones of mineralization present and future work should follow up on some of these leads. The pan concentrate sample taken from the creek confirms that there are significant gold values associated with the heavy minerals on the property.

2. Soil Sampling Reconnaissance Survey: The soil sampling survey confirmed the fact that there is a strongly mineralized zone located north of the West adit as evidenced by the anomalous lead, zinc, copper and silver values for the soils from the first 150M of line 2E. Three zones of anomalous lead, zinc and possibly silver values were found on line 3E. Lines 1E and 4E did not give any definitely anomalous samples.

The anomalies found on line 3E should be followed up with a detailed grid to cover the area to the east and west of the line. A small grid should also test for the possibility of a N-S zone above the East adit as the soil beside the open cut did give anomalous silver, copper and lead values.

3. VLF-EM Reconnaissance Survey: The VLF-EM survey detected only one strong conductor in the limited area surveyed. This conductor located at the end of lines 1E and 2E was found to be a strong pyritic shear zone where it crossed the creek valley. The strong conductor measured on line 4E is believed to be the eastward extension of the same shear zone.

There was no significant VLF-EM response measured in the vicinity of the West adit. This is interpreted to mean that the quartz-carbonate veins exposed in the trenches are not sufficiently well mineralized to be conductive.

Line 3E gave a response profile which indicates the presence of several (perhaps as many as 4) weak conductors including one in the lake south of the line end. This area needs to be surveyed more carefully in conjunction with a detailed soil sampling program to verify the existence of conductors and determine their character.

The survey lines were oriented N-S due to the expected E-W strike of the mineralization as indicated in the vicinity of the West adit. However, due to the possibility mentioned above, of there being mineralized N-S shear zones in the vicinity of the East adit, at least this area should be surveyed with an E-W line orientation.

CONCLUSION:

The presence of significant silver-lead-zinc-gold mineralization on the Babine Claim property was established by the work reported herein. Opening up of the West adit portal and mapping and sampling of these underground workings is recommended as the next step in the evaluation of the economic potential of the mineralization. In addition, more detailed soil sampling, geophysical surveying, geological mapping and prospecting are recommended to follow up on the results of the preliminary surveys of this report.

REFERENCES

B.C. Minister of Mines Annual Reports, 1928(p419); 1929(p182).

G.S.C. Paper #38-10, p18, 1938.

"Statement of the Work Done on the Four Mineral Claims on and Near Silver Island on Babine Lake in Omineca Mining District", signed by E.F. Campbell, undated private report from the files of Miss N. Campbell.

Handwritten letter to Hedley Amalgamated Gold Mines Ltd. dated August 9, 1935 from William Cox, Superintendent - giving a brief report of his inspection of the Boling and Silver Island properties and assays of 4 samples.

G.S.C. Map #907A, 1948.

DETAILED COST STATEMENT

Prospecting: EAS - 6 man-days @ \$150.....	▣	\$900.00
LBW - 4 man-days @ \$150.....	=	\$600.00
Soil sampling: EAS - 3 man days @ \$150.....	▣	\$450.00
VLF-EM survey: EAS - 3 man days @ \$150.....	▣	\$450.00
Accommodation and meals allowance: 16 @ \$35.....	=	\$560.00
Geochemical Analyses and Assays:		
Soil samples (Acme-Lacana) - 80 @ \$10.....	=	\$800.00
Rock samples (Acme-Lacana) - 5 @ \$10.50.....	=	\$52.50
Rocks & etc (Min-En - EAS/LBW).....	=	\$565.40
Rock samples (Vangeochem - EAS).....	=	\$276.00
Rock sample (Eco-Tech - EAS).....	=	\$12.00
VLF-EM rental - Phoenix Geophysics - 4 days.....	=	\$115.45
Boat and motor useage - 12 days @ \$35.....	=	\$420.00
Travel costs, 3 trips Smithers-Babine, 1200km...=		\$300.00
Sample bags, freight, phone, flagging, misc.....=		\$150.00
Report writing/typing/drafting - 2 days @ \$150..=		\$300.00
Report costs, maps, airphotos, blueprints etc...=		\$100.00
		-----
TOTAL COSTS.....	=	<u>\$6051.35</u>

ACKNOWLEDGEMENT


Funding received for a portion of this work from Lacana Mining Corporation and B.C. Ministry of Energy, Mines and Petroleum Resources FAME grant is gratefully acknowledged.

CERTIFICATION

I, ERIC ALBERT SHAEDE, of 411 Coach Road, R.R. #1, Sicamous, B.C., VOE 2V0, do hereby certify that:

- I am a graduate of the University of B.C. and I received degrees of B.Sc., M.Sc. and Ph.D. from that University in 1966, 1968 and 1971 respectively.
  
- I have been employed in the mining industry from 1973 to 1984 at various positions ranging from metallurgist to mill superintendent to mine manager.
  
- I have successfully completed the Province of B.C., Ministry of Energy, Mines and Petroleum Resources, Mineral Exploration Course for Prospectors on May 18, 1985. (certificate attached).
  
- I personally conducted the work programs reported herein and personally wrote this report based on that work and information gathered from published and private reports.

Dated at Sicamous, B.C., November 25, 1986

  
Eric A. Shaede, Ph.D.



**Province of British Columbia**  
Ministry of Energy, Mines and Petroleum Resources

THIS IS TO CERTIFY THAT

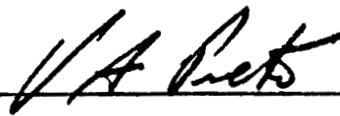
ERIC SHAEDE

HAS SUCCESSFULLY COMPLETED


MINERAL EXPLORATION COURSE FOR PROSPECTORS

AND IS HEREBY GRANTED

THIS CERTIFICATE OF ACHIEVEMENT



DIRECTOR OF  
PROSPECTORS' ASSISTANCE



COURSE INSTRUCTOR

MAY 18, 1985

DATE

CO-SPONSORED BY: MALASPINA COLLEGE AND  
MINISTRY OF EDUCATION

**MIN-EN Laboratories Ltd.**

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

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

TELEX: 04-352828

**CERTIFICATE OF ASSAY**

COMPANY: CJL ENTERPRISES  
 PROJECT: BABINE PROJECT  
 ATTENTION: L. WARREN/E. SHAEDE

FILE: 5-775  
 DATE: OCT. 9/85.  
 TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AU G/TONNE	AU OZ/TON
#1	.02	0.001
#2	.01	0.001
#3	.01	0.001
#4	.01	0.001
#5	.02	0.001
#6	.02	0.001

**GEOCHEMICAL ANALYSIS CERTIFICATE**

COMPANY: E.A. SHAEDE  
 PROJECT: BABINE  
 ATTENTION: E.A. SHAEDE

FILE: 5-952R2  
 DATE: JAN. 9/86.  
 TYPE: PULP GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 2 samples submitted.

SAMPLE NUMBER	*CU PPM	*PB PPM	*ZN PPM	*MO PPM	*CD PPM	*AG PPM	HG PPB
BABINE 7	51	24	80	3	0.1	0.8	
BABINE 8	4600	5140	6000	5	192.3	1639.0	280

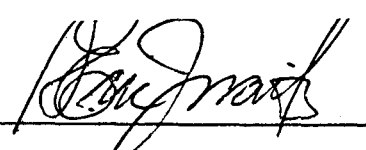
**CERTIFICATE OF ASSAY**

COMPANY: ERIC A. SHAEDE  
 PROJECT:  
 ATTENTION:

FILE: 5-952R  
 DATE: DEC. 19/85.  
 TYPE: PULP ASSAY

We hereby certify that the following are assay results for samples submitted

SAMPLE NUMBER	AG G/TONNE	AG OZ/TON
BABINE 8	2250.0	65.62

Certified by 

MIN-EN LABORATORIES LTD.

.../A1-2



COMPANY: CJI ENTERPRISES

MIN-ER LABS' ICP REPORT

(ACT:SED27) PAGE 1 OF 1

PROJECT NO: BABINE PROJECT

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

FILE NO: 5-775

ATTENTION: L. WARREN/E. SHAEDE

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

\* TYPE ROCK GEOCHEM \*

DATE: OCT 9, 1985

( PPM )	#1	#2	#3	#4	#5	#6	( PPM )	BABINE 7	BABINE 8	( PPM )	BABINE 7
AG	5.3	1.7	4.1	1.5	4.2	5.0	AG	.9	1218.9		B
AL	1010	17660	3100	11760	610	590	AL	18410	6130	AG	1.6
AS	1	17	8	11	5	7	AS	1	254	AL	22950
B	5	13	8	9	3	7	B	2	1	AS	1
BA	21	41	198	144	461	47	BA	73	11	B	20
										BA	100
BE	2.4	2.4	2.3	2.0	1.8	1.3	BE	3.8	1.3		
BI	16	16	12	14	12	6	BI	16	48	BE	2.5
CA	146380	77920	68550	29060	58990	42450	CA	12480	1890	BI	37
CD	157.3	2.6	46.8	1.2	237.3	209.8	CD	.1	161.0	CA	16690
CO	9	20	7	12	6	4	CO	20	10	CD	1.6
										CO	27
CU	11	36	9	21	9	8	CU	50	4250		
FE	38650	35770	28460	30000	22880	16540	FE	58230	17720	CU	62
K	270	1440	1380	2250	190	190	K	1050	1670	FE	59810
LI	1	23	1	13	1	1	LI	9	4	K	1580
MG	45930	18640	21160	10080	18630	14620	MG	13640	3050	LI	8
										MG	13260
MN	2228	690	1410	488	2101	1345	MN	487	138		
MO	11	11	9	15	8	6	MO	9	6	MN	622
NA	10	170	10	230	10	10	NA	1100	40	MO	14
NI	24	81	26	37	22	17	NI	10	25	NA	2420
P	220	540	280	490	200	190	P	1170	390	NI	24
										P	1420
PB	9102	67	2003	34	6188	10946	PB	15	4524		
SB	16	9	10	6	11	11	SB	1	1297	PB	24
SR	153	47	67	39	49	40	SR	113	30	SB	7
TH	1	1	1	1	1	1	TH	1	1	SR	184
U	1	1	1	1	1	1	U	1	1	TH	1
										U	1
V	11.9	68.8	20.7	49.8	8.6	7.9	V	95.3	21.9		
ZN	4457	76	1870	82	7004	6675	ZN	80	5214	V	128.9
										ZN	84

## APPENDIX 1 cont.

PAGE A1-3

COMPANY: ERIC A. SHAEDE

MIN-EN LABS ICP REPORT

(ACT:GEO27) PAGE 1 OF 3

PROJECT NO: BASINE

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

FILE NO: 6-251

ATTENTION: E.A. SHAEDE/L. WARREN

(604)980-5814 OR (604)989-4524

\* TYPE ROCK GEOCHEM \* DATE: MAY 23, 1986

(VALUES IN PPM)	AS	AL	AR	B	BA	BE	BI	CA	CD	CO	CU	FE
#9	1.1	11960	49	14	94	4.6	12	22060	3.9	30	221	72220
#10	.8	8900	39	11	44	2.1	4	10000	1.5	9	61	16440
#11	.7	14040	31	15	54	2.5	6	8950	2.4	10	30	36340
#12	35.6	3100	159	9	112	1.1	6	3800	117.4	11	220	8560
#13	7.8	2860	12	7	32	.6	9	1860	98.1	4	601	5090
#14	34.9	870	233	6	521	.8	5	1830	359.0	37	70	5320
#15	1.2	34300	80	35	624	7.1	11	35470	5.0	44	63	65740
#16	2.2	3840	81	11	751	3.1	7	52830	16.7	22	65	29400
#17	13.2	5090	127	17	61	5.4	11	72630	228.0	30	45	48840
#18	1.8	1180	12	1	55	.2	4	2460	.1	2	5	8560
#19	.6	12670	50	12	202	3.3	7	6680	3.5	14	46	28010
#20	.5	20000	16	243	40	2.6	5	58000	2.5	7	20	45830
#22	1.0	790	1	3	21	4.0	6	139160	7.7	18	2	49770
#23	.4	1510	1	10	31	7.2	4	15750	2.6	68	2	42590
#24	5250.0	770	76	2	1249	2.7	11	126250	3.7	9	807	42360
#25	5.4	4990	53	3	605	2.0	9	3710	2.2	14	71	38890
#26	27.9	2200	155	6	66	4.3	8	92670	8.3	9	20	49540
#27	N/S											
#28	128.4	3490	29	9	351	4.0	8	123850	14.8	14	82	50000
#34	6.1	3430	14	3	92	2.7	3	66690	2.0	7	27	27310

COMPANY: ERIC A. SHAEDE

MIN-EN LABS ICP REPORT

(ACT:GEO27) PAGE 2 OF 3

PROJECT NO: BASINE

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

FILE NO: 6-251

ATTENTION: E.A. SHAEDE/L. WARREN

(604)980-5814 OR (604)989-4524

\* TYPE ROCK GEOCHEM \* DATE: MAY 23, 1986

(VALUES IN PPM)	K	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH
#9	1940	18	20260	585	6	530	43	1590	38	13	54	2
#10	1430	8	5760	573	6	230	17	240	23	3	40	1
#11	2810	15	10630	549	6	330	19	340	24	4	29	1
#12	870	2	2720	137	8	20	37	220	32616	48	20	1
#13	1150	1	1210	66	13	20	15	220	4713	4	8	1
#14	190	1	950	157	8	10	80	70	34591	50	929	1
#15	1950	62	51100	849	10	230	253	690	162	19	128	3
#16	1210	1	7250	880	11	20	73	300	231	12	44	2
#17	2050	1	26380	2623	11	30	56	940	27739	54	58	3
#18	350	1	750	54	3	80	2	20	53	1	6	1
#19	1430	10	10700	963	9	190	40	400	170	7	25	2
#20	350	4	3550	1442	4	20	14	200	35	5	93	1
#22	170	1	66080	3099	3	30	33	190	2164	19	78	1
#23	570	3	120530	835	4	40	697	20	42	20	182	1
#24	300	1	63950	3597	19	10	14	50	87	262	134	1
#25	100	2	3400	5146	11	10	63	140	44	12	24	1
#26	870	1	41560	3720	6	10	21	120	70	22	54	2
#27	N/S											
#28	1430	1	56720	4138	5	20	20	200	56	42	148	1
#34	780	2	36110	1116	10	30	21	950	52	12	75	1

COMPANY: ERIC A. SHAEDE  
 PROJECT NO: BABINE  
 ATTENTION: E. A. SHAEDE/L. WARREN

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604) 980-5814 OR (604) 988-4524

APPENDIX 1 cont.  
 MIN-EN LABS ICP REPORT

(VALUES IN PPM)	U	V	ZN	AU-PPB
#9	1	98.7	31	3
#10	4	31.3	36	1
#11	1	45.4	67	4
#12	2	17.2	9652	203
#13	1	11.7	5164	342
#14	29	3.6	13603	159
#15	4	160.2	169	2
#16	2	29.1	561	1
#17	1	28.4	10168	145
#18	32	1.6	17	3
#19	2	48.9	96	1
#20	1	59.7	41	1
#22	1	5.1	559	2
#23	5	7.6	52	1
#24	1	16.6	137	30000
#25	34	42.3	61	6
#26	1	8.6	296	43
#27	N/S			
#28	1	9.3	488	61
#34	2	46.4	55	1

SAMPLE NAME	AG	AL	AS	AU	BA	BI	CA	CD	CO	CR	CU	FE	K	MS	MN	MO	NA	NI	P	P8	PD	PT	SB	SN	SR	U	V	ZN	
	PPM	1	PPM	PPM	PPM	PPM	1	PPM	PPM	PPM	1	1	1	PPM	PPM	1	PPM	PPM	1	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
13	7.4	.12	47	NO	26	NO	.16	121.4	3	136	603	.36	.03	.08	95	12	.01	14	.01	5835	NO	NO	6	3	6	NO	NO	5766	
14	32.7	.01	303	NO	905	8	.16	442.2	34	51	71	.58	.01	.06	163	7	.01	92	.01	42671	NO	NO	29	2	461	NO	7 14674		
24	2100	.01	171	46	1483	NO	16.82	6.3	4	13	910	2.79	.01	8.76	5136	21	.01	14	.01	145	NO	NO	306	NO	358	NO	6 312		
25	15.5	.73	24	NO	668	NO	.59	.1	22	75	238	3.77	.08	.52	7110	20	.01	157	.04	41	NO	NO	NO	NO	35	NO	NO	144	
DETECTION LIMIT																													
.1 .01 .3 .3 .1 .3 .3 .01 .1 .1 .1 .01 .01 .01 .1 .1 .1 .01 .1 .01 .2 .3 .5 .2 .2 .1 .5 .3 .1																													

COMPANY: ERIC SHAEDE  
 ATTENTION: ERIC SHAEDE  
 PROJECT: BABINE

REPORT#: 860170PA  
 JOB#: 860170  
 INVOICE#: 860170NA

DATE RECEIVED: 86/06/04  
 DATE COMPLETED: 86/06/06  
 COPY SENT TO: MR. SHAEDE

ANALYST: *[Signature]*  
 .../A1-5

VANGEOCHEM LAB LIMITED  
 MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2G3 PH: (604) 986-5211 TELEX: 04-352578  
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604) 251-5656  
 ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIRECTED WITH 10 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES.  
 THIS LEACH IS PARTIAL FOR SN, NI, FE, CA, F, CR, MG, BA, PB, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

PAGE 1 OF 1

MIN-EN Laboratories Ltd.  
 Specialists in Mineral Environments  
 705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

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

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: ERIC A. SHAEDE  
 PROJECT: BABINE  
 ATTENTION: ERIC A. SHAEDE

FILE: 6-  
 DATE: JUN  
 TYPE: PUI

We hereby certify that the following are the results of the geochemical analysis made on 1 samples submitted.

SAMPLE NUMBER U PPM

18 1.9

**MIN-EN Laboratories Ltd.**

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604)980-5814 OR (604)980-4524

TELEX: 04-35282

**CERTIFICATE OF ASSAY**

COMPANY: ERIC A. SHAEDE  
 PROJECT: BABINE  
 ATTENTION: E.A. SHAEDE/L. WARREN

FILE: 6-244  
 DATE: MAY 23/86.  
 TYPE: ROCK ASSAY

We hereby certify that the following are assay results for samples submitted.

SAMPLE NUMBER	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
24A	2800.0	81.66	2.04	0.059

**CERTIFICATE OF ASSAY**

COMPANY: ERIC A. SHAEDE  
 PROJECT: BABINE  
 ATTENTION: E.A. SHAEDE/L. WARREN

FILE: 6-244  
 DATE: MAY 23/86  
 TYPE: METALLIC GOLD AS

We hereby certify that the following are assay results for samples submitted.

```

*****
SAMPLE * TOTAL +120 M * ASSAY VAL ASSAY VAL * +120 M -120 M * METALLIC GOLD * NET GOLD
NAME * WT (G) WT (G) * MET AU G/T-120AGB/T * AU (MG) AU (MG) * (OZ/T) (GM/T) * (OZ/T) (GM/T)
*****
#24A * 82.65 9.15 * 7.25 1.39 * 0.066 0.102 * 0.023 0.80 * 0.059 2.04
    
```

**CERTIFICATE OF ASSAY**

COMPANY: ERIC A. SHAEDE  
 PROJECT: BABINE  
 ATTENTION: E.A. SHAEDE/L. WARREN

FILE: 6-244  
 DATE: MAY 23/86  
 TYPE: METALLIC AG ASSA

We hereby certify that the following are assay results for samples submitted.

```

*****
SAMPLE * TOTAL +120 M * ASSAY VAL ASSAY VAL * +120 M -120 M * METALLIC SILVER * NET SILVER
NAME * WT (G) WT (G) * MET AG G/T-120AGB/T * AG (MG) AG (MG) * (OZ/T) (GM/T) * (OZ/T) (GM/T)
*****
#24A * 82.65 9.15 * 5605.6 2765.0 * 51.301 203.228 * 18.10 620.7 * 89.82 3079.6
    
```

Certified by



MIN-EN LABORATORIES LTD.

**MIN-EN Laboratories Ltd.**

Specialists in Mineral Environments

705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

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

TELEX: 04-35282E

**CERTIFICATE OF ASSAY**

COMPANY: ERIC A. SHAEDE  
PROJECT: BABINE  
ATTENTION: E.A. SHAEDE/L. WARREN

FILE: 6-251  
DATE: MAY 23/86.  
TYPE: ROCK ASSAY

*We hereby certify that the following are assay results for samples submitted.*

SAMPLE NUMBER	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
#24	13000.0	379.16	42.80	1.248
#28	185.0	5.40		

**GEOCHEMICAL ANALYSIS CERTIFICATE**

COMPANY: ERIC A. SHAEDE  
PROJECT: BABINE  
ATTENTION: E.A. SHAEDE/L. WARREN

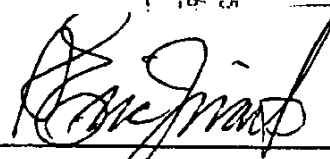
FILE: 6-251  
DATE: MAY 26/86.  
TYPE: PAN CONC. HM

*We hereby certify that the following are the results of the geochemical analysis made on 2 samples submitted.*

SAMPLE NUMBER	AU-FIRE PPB	PD-FIRE PPB	PT-FIRE PPB	HM %
#21	314	1	21	12.48
#23	68	1	30	13.08

ELEMENT	#21		#23	
	PPB	%	PPB	%
Ag	314	12.48	68	13.08
Al				
As				
Au				
Ba				
Bi				
Bj				
Br				
Ca				
Co				
Cd				
Cu				
Fe				
Fl				
Ga				
Ge				
Hf				
Hg				
I				
Li				
Mg				
Mn				
Mo				
Nb				
NI				
P				
Pb				
Se				
SR				
TH				
U				
V				
Zn				

COMPANY: ERIC A. SHAEDE  
PROJECT NO: BABINE  
ATTENTION: ERIC A. SHAEDE  
(PPB )  
70. 1ST 15

Certified by   
MIN-EN LABORATORIES LTD.

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N.VANCOUVER B.C. V7P 2S3 PH:(604)986-5211 TELEX:04-352578  
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH:(604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN,MN,FE,CA,P,CR,MG,BA,PD,AL,NA,K,W,PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

COMPANY: ERIC SHAEDE  
 ATTENTION: E. SHAEDE & L. WARREN  
 PROJECT: BABINE

REPORT#: 860239PA  
 JOB#: 860239  
 INVOICE#: 860239NA

DATE RECEIVED: 86/06/27  
 DATE COMPLETED: 86/07/02  
 COPY SENT TO: E.SHAEDE & L.WARREN

ANALYST: E. Shaede

PAGE 1 OF 1

APPENDIX 1

SAMPLE NAME	AG	AL	AS	AU	BA	BI	CA	CD	CO	CR	CU	FE	K	MG	MA	MD	NA	NI	P	PB	PD	PT	SB	SN	SR	U	W	ZN
	PPM	I	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	I	I	I	PPM	PPM	I	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
35	.1	.43	3	ND	11	ND	.83	.1	6	251	104	3.08	.10	.35	1505	7	.01	46	.01	27	ND	ND	ND	ND	21	ND	ND	14
36	.2	1.31	ND	ND	125	ND	.81	1.1	10	84	78	2.36	.10	1.08	1161	6	.01	33	.04	12	ND	ND	ND	ND	20	ND	ND	93
37	.3	.20	17	ND	80	ND	11.58	3.1	3	61	20	2.22	.01	3.42	3602	27	.01	16	.01	53	ND	ND	ND	ND	244	ND	ND	187
38	.4	.65	22	ND	120	ND	4.92	2.1	10	70	91	2.72	.15	2.47	827	15	.01	44	.08	12	ND	ND	5	ND	121	4	ND	140
39	.1	2.00	15	ND	27	ND	1.26	.5	7	61	55	4.54	.15	1.52	824	15	.01	20	.06	12	ND	ND	ND	ND	44	ND	ND	74
40	.1	2.18	414	ND	35	ND	2.95	.1	11	78	38	3.20	.17	1.12	1222	2	.01	17	.06	2	ND	ND	ND	ND	45	3	ND	73
41	.4	1.16	140	ND	29	ND	2.54	3.2	8	49	56	2.59	.15	1.27	894	6	.01	24	.04	17	ND	ND	ND	ND	68	ND	ND	227
42	.1	1.33	25	ND	52	ND	5.98	.8	8	38	46	3.12	.15	2.88	1245	2	.01	16	.03	17	ND	ND	ND	ND	163	3	ND	82
43	.4	1.58	33	ND	39	ND	1.31	1.1	11	129	136	3.59	.16	.96	721	11	.01	55	.03	22	ND	ND	ND	ND	37	ND	ND	137
44	1.1	1.58	9	ND	43	ND	2.68	1.1	13	73	80	2.95	.16	1.18	1023	7	.01	36	.05	13	ND	ND	ND	2	62	5	ND	128
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

4



**VANGEOCHEM LAB LIMITED**

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 8602396A

JOB NUMBER: 860239

Mr. Eric Shaede

PAGE 1 OF 1

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
35	--	--	--	--	nd
36	--	--	--	--	nd
37	--	--	--	--	nd
38	--	--	--	--	nd
39	--	--	--	--	nd
40	--	--	--	--	nd
41	--	--	--	--	10
42	--	--	--	--	nd
43	--	--	--	--	5
44	--	--	--	--	nd
45	730	4500	7500	257.3	5
46	--	--	--	9.1	5
47	--	--	--	152.9	15
48	131	56000	950	105.0	30
49	--	--	--	3.0	5
50	--	--	--	8.2	20
DETECTION LIMIT	1	2	1	0.1	5
nd = none detected	-- = not analysed		is = insufficient sample		

REPORT NUMBER: 8602396B

JOB NUMBER: 860239

ERIC SHAEDE

PAGE 1 OF 1

SAMPLE #	Ag ppm	ICP
36	.5	0.2
37	1.0	0.3
38	.6	0.4
39	.6	0.1
40	nd	0.1
41	.4	0.4
42	nd	0.1
43	.3	0.4
44	.4	1.1

DETECTION LIMIT 0.1  
nd = none detected -- = not analysed is = insufficient sample



ENVIRONMENTAL TESTING  
GEOCHEMISTRY  
ANALYTICAL CHEMISTRY  
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700  
Telex: 048-8393


August 13, 1986

CERTIFICATE OF ANALYSIS ETK 86-129

CLIENT: Eric A. Shaede  
P.O. Box 557  
TELKWA, B. C.  
VOJ 2X0

SAMPLE IDENTIFICATION: 3 rock samples received August 7, 1986

<u>ETK#</u>	<u>Description</u>	<u>Au (ppb)</u>	<u>Ag (ppm)</u>
129-1	Babine #51	10	0.3
129-2	Lucky Star #1	10	1.8
129-3	Lucky Star #2	98	0.9

  
\_\_\_\_\_  
ECO-TECH LABORATORIES LTD.  
per Thomas J. Fletcher, B.Sc.  
Chief Assayer

TJF/bn

.../A1-10



ACME ANALYTICAL LABORATORIES LTD., VANCOUVER, B.C.

LACANA MINING

PROJECT-BABINE FILE# 86-2512

PAGE 4

SAMPLE#	Pb PPM	Zn PPM	Ag PPM	Au** PPB
BABINE 52	7	34	.1	3
BABINE 53	9	59	.6	3
BABINE 54	2	24	.1	4
BABINE 55	218	259	22.0	3
BABINE 56	49	122	1.0	1

✓

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS FAKTIAL FOR MN, FE, CU, P, CR, MO, BA, TI, B, AL, NA, K, W, SI, ZK, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOILS -80 MESH AUT ANALYSIS BY AA FROM 10 GRAM SAMPLE.  
 P4 - RICKS

DATE RECEIVED: SEPT 6 1986 DATE REPORT FILED: *Sept 12/86* ASSAYER: *D. J. [Signature]* DEAN TOYE, CERTIFIED B.C. ASSAYER.

LACANA MINING PROJECT - BABINE FILE # 86-2512

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tn	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mo	Ba	Ti	θ	Al	Na	K	W	AUT
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
BABINE L1E 6+75N	3	123	15	155	.1	55	34	3491	3.71	9	5	ND	1	50	1	2	4	67	.88	.085	8	73	1.10	232	.12	5	1.79	.02	.12	1	1
BABINE L1E 6+25N	2	50	6	301	.3	42	17	3732	3.28	3	5	ND	1	36	1	2	4	52	.64	.126	6	63	.82	358	.07	5	1.65	.02	.13	1	1
BABINE L1E 6+00N	1	29	7	117	.1	36	12	1375	2.65	5	5	ND	1	29	1	2	2	48	.41	.097	6	47	.67	213	.09	3	1.30	.02	.11	1	1
BABINE L1E 5+75N	1	49	11	80	.1	40	16	1462	3.38	12	5	ND	1	34	1	2	3	65	.59	.059	7	66	.83	227	.07	3	1.72	.02	.19	1	1
BABINE L1E 5+50N	1	134	9	90	.1	83	23	1099	3.75	17	5	ND	1	45	1	2	4	78	.81	.072	8	163	1.42	182	.08	2	2.02	.02	.15	1	2
BABINE L1E 5+25N	2	109	16	178	.3	78	23	1672	3.91	15	5	ND	1	48	1	2	3	79	.84	.103	9	159	1.38	384	.06	5	2.15	.02	.13	2	1
BABINE L1E 5+00N	2	147	13	197	.3	73	23	1695	4.01	23	5	ND	1	45	1	2	2	76	.87	.109	10	129	1.29	278	.06	5	1.98	.01	.14	1	1
BABINE L1E 4+75N	2	98	6	236	.3	59	20	1679	3.78	17	5	ND	1	39	1	2	3	66	.80	.161	8	105	1.08	380	.06	6	1.81	.01	.17	1	2
BABINE L1E 4+50N	2	143	11	324	.4	61	22	2506	3.31	14	5	ND	1	61	3	2	2	52	1.17	.256	8	98	.95	435	.05	7	1.62	.01	.15	1	1
BABINE L1E 4+25N	2	120	23	184	.3	58	24	1611	3.91	33	5	ND	1	38	1	2	2	71	.78	.120	8	88	1.05	216	.05	3	1.85	.01	.17	1	1
BABINE L1E 4+00N	1	67	24	171	.3	35	14	1168	3.29	24	5	ND	1	36	1	2	4	59	.74	.140	8	52	.70	218	.05	6	1.54	.01	.17	1	1
BABINE L1E 3+75N	2	63	22	241	.2	37	17	1959	3.48	14	5	ND	1	40	1	2	2	56	.76	.179	7	56	.72	282	.05	3	1.59	.01	.16	1	1
BABINE L1E 3+50N	2	66	20	148	.3	34	15	1665	3.30	19	5	ND	1	41	1	2	4	55	.74	.111	10	43	.57	258	.05	4	1.58	.01	.19	1	1
BABINE L1E 3+25N	2	60	16	169	.3	33	16	2025	3.31	14	5	ND	1	48	1	2	2	52	.86	.171	8	40	.57	318	.05	12	1.58	.01	.23	1	1
BABINE L1E 3+00N	2	35	23	233	.2	34	15	1677	3.29	17	5	ND	1	32	1	8	2	62	.49	.091	6	53	.67	173	.07	10	1.53	.01	.13	2	2
BABINE L1E 2+50N	3	33	30	267	.1	40	20	2139	3.96	38	5	ND	1	31	1	2	2	76	.53	.091	5	64	.78	177	.06	4	1.75	.01	.21	1	1
BABINE L1E 2+25N	1	32	9	139	.2	31	10	1247	2.54	7	5	ND	1	50	1	2	2	41	.61	.059	6	22	.40	193	.08	5	1.36	.01	.22	1	1
BABINE L1E 2+00N	1	33	10	69	.2	27	10	655	3.00	10	5	ND	1	49	1	2	2	48	.69	.051	9	25	.46	166	.06	3	1.38	.01	.21	1	1
BABINE L1E 1+75N	1	18	3	67	.1	23	7	624	2.37	5	5	ND	1	34	1	2	2	37	.41	.032	6	19	.39	138	.07	2	1.24	.01	.12	1	2
BABINE L1E 1+50N	1	17	14	61	.2	24	11	612	3.16	8	5	ND	1	32	1	2	2	50	.29	.022	6	24	.55	104	.08	2	1.43	.01	.12	1	1
BABINE L1E 1+25N	2	23	9	70	.2	23	10	747	2.80	9	5	ND	1	40	1	2	3	45	.49	.027	6	21	.47	119	.07	2	1.28	.01	.13	1	1
BABINE L1E 1+00N	1	16	5	119	.2	31	10	715	3.02	8	5	ND	1	33	1	2	2	44	.35	.054	7	21	.50	153	.07	3	1.55	.01	.14	1	1
BABINE L1E 0+75N	1	24	6	166	.3	31	12	1307	2.91	6	5	ND	1	69	1	2	2	39	.69	.122	7	20	.49	237	.05	9	1.48	.01	.23	1	1
BABINE L1E 0+50N	1	38	12	348	.3	32	11	1361	2.75	3	5	ND	1	101	2	2	3	37	1.27	.303	7	20	.37	268	.06	12	1.34	.01	.24	1	1
BABINE L1E 0+25N	1	31	9	98	.2	28	11	837	2.90	9	5	ND	1	42	1	2	2	45	.53	.040	8	20	.39	141	.07	7	1.24	.01	.18	1	2
BABINE L1E 0+00	1	17	2	58	.2	24	10	513	2.97	7	5	ND	1	31	1	2	3	45	.26	.019	7	19	.43	107	.08	2	1.29	.01	.18	1	1
BABINE L2E 4+00N	3	42	7	177	.2	36	14	700	3.38	10	5	ND	1	31	1	2	2	63	.53	.188	6	48	1.02	156	.07	4	1.51	.03	.13	1	1
BABINE L2E 3+50N	4	46	9	180	.3	41	22	2248	3.55	15	5	ND	1	28	1	2	2	73	.53	.065	4	48	.90	158	.09	3	1.68	.02	.10	1	1
BABINE L2E 3+25N	2	33	10	240	.2	28	14	1284	2.91	10	5	ND	1	27	1	2	2	52	.50	.158	5	43	.76	154	.08	4	1.39	.02	.08	1	1
BABINE L2E 3+00N	3	32	8	203	.2	31	22	2251	3.78	15	5	ND	1	28	1	2	3	72	.51	.065	4	47	.71	160	.10	4	1.51	.02	.08	1	1
BABINE L2E 2+75N	3	67	7	199	.2	45	21	2071	3.75	10	5	ND	1	31	1	2	2	68	.57	.091	7	62	.84	206	.08	2	1.76	.02	.19	1	1
BABINE L2E 2+50N	2	23	9	186	.3	29	14	1266	3.29	7	5	ND	1	29	1	2	2	59	.50	.093	4	49	.63	150	.08	5	1.37	.01	.11	1	2
BABINE L2E 2+25N	2	21	8	247	.4	31	14	1228	3.35	11	5	ND	1	26	1	2	2	62	.43	.049	4	43	.56	122	.09	2	1.46	.01	.07	1	3
BABINE L2E 2+00N	2	44	17	176	.3	46	18	1065	3.88	43	5	ND	1	30	1	2	2	72	.52	.072	6	80	.90	128	.07	5	1.71	.01	.16	1	1
BABINE L2E 1+75N	3	49	13	289	.2	39	17	1705	3.56	32	5	ND	1	29	1	2	2	66	.54	.055	5	65	.74	173	.07	8	1.50	.01	.15	1	1
BABINE L2E 1+50N	3	139	37	404	1.0	38	21	1449	3.34	27	5	ND	1	111	4	2	3	52	1.92	.207	5	52	.75	231	.03	9	1.18	.01	.14	1	1
STD C/AU-0.5	21	59	37	133	6.8	65	29	1078	3.96	42	20	8	33	47	16	15	21	62	.48	.103	36	56	.88	175	.08	36	1.73	.06	.13	12	500

PAGE A2-1

APPENDIX 2

.../A2-2

## LACANA MINING PROJECT - BABINE FILE # 86-2512

PAGE 2

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	M PPM	Au PPM
BABINE L2E 1+25N	3	152	23	266	.9	97	26	1498	2.58	33	5	ND	1	83	3	2	5	56	2.36	.196	2	191	1.31	144	.03	4	1.45	.01	.06	1	1
BABINE L2E 1+00N	8	230	153	687	4.6	93	40	2553	4.45	71	5	ND	1	93	12	2	3	77	2.42	.289	3	132	1.06	312	.02	11	1.51	.01	.12	1	1
BABINE L2E 0+75N	5	110	129	456	1.6	60	26	1950	4.03	53	5	ND	1	45	6	2	2	63	.97	.139	2	96	.95	255	.04	6	1.50	.01	.18	1	1
BABINE L2E 0+50N	2	82	43	816	.3	63	20	1799	3.41	9	5	ND	1	70	4	2	3	52	.90	.446	3	106	.91	611	.06	9	1.64	.01	.12	1	1
BABINE L2E 0+25N	2	128	53	618	.5	90	25	898	3.76	14	5	ND	1	35	2	2	2	72	.60	.113	2	175	1.50	149	.10	2	1.98	.01	.15	1	1
BABINE L2E 0+00	2	64	22	363	.2	59	16	933	3.25	14	5	ND	1	34	1	2	5	54	.58	.127	3	88	.78	213	.05	9	1.63	.01	.25	1	1
BABINE L3E 5+50N	3	38	25	1088	.5	24	17	2764	3.29	5	5	ND	1	31	2	2	2	43	.59	.167	3	53	.47	333	.06	5	1.24	.01	.14	1	1
BABINE L3E 5+25N	3	27	46	423	.5	36	15	1132	3.70	12	5	ND	1	33	2	3	2	57	.52	.218	2	58	.72	242	.06	8	1.44	.01	.13	2	1
BABINE L3E 5+00N	1	20	18	162	.4	29	9	825	2.75	5	5	ND	1	27	1	2	3	42	.36	.071	5	30	.45	167	.07	2	1.17	.01	.14	1	2
BABINE L3E 4+75N	1	23	27	193	.5	29	9	550	2.56	10	5	ND	1	32	1	2	4	41	.50	.111	3	33	.47	138	.07	6	1.09	.01	.17	1	1
BABINE L3E 4+50N	2	23	17	250	.5	28	10	818	2.58	8	5	ND	1	26	1	2	3	41	.36	.089	5	35	.46	162	.07	3	1.24	.01	.13	1	1
BABINE L3E 4+25N	3	21	45	283	.6	39	12	1219	2.71	10	5	ND	1	25	3	2	2	47	.39	.068	4	66	.65	149	.06	2	1.22	.01	.09	1	2
BABINE L3E 4+00N	1	24	39	492	.6	32	11	1136	2.52	4	5	ND	1	36	3	2	2	37	.47	.099	5	40	.47	213	.07	5	1.13	.01	.13	1	1
BABINE L3E 3+50N	3	27	26	210	.3	36	11	1492	2.52	7	5	ND	1	27	2	2	2	42	.42	.088	3	65	.62	190	.06	4	1.12	.01	.10	1	1
BABINE L3E 3+25N	1	33	29	88	.2	23	11	743	2.98	17	5	ND	1	38	1	2	2	49	.44	.041	6	28	.45	137	.06	2	1.14	.01	.20	1	1
BABINE L3E 3+00N	1	15	8	28	.4	5	1	105	.29	2	7	ND	4	147	1	2	5	2	18.33	.041	2	6	.24	132	.01	5	.14	.01	.02	1	1
BABINE L3E 2+75N	3	38	67	630	.5	31	15	2602	2.69	4	5	ND	1	46	5	2	2	43	1.73	.186	3	57	.58	332	.05	4	1.28	.01	.10	1	2
BABINE L3E 2+25N	2	23	52	386	.7	28	11	941	2.51	7	5	ND	1	37	3	2	2	46	.68	.120	3	52	.64	181	.05	3	1.00	.01	.10	1	1
BABINE L3E 2+00N	1	21	14	135	.3	31	10	433	2.69	7	5	ND	1	29	1	2	2	54	.44	.104	4	49	.72	98	.09	3	1.21	.02	.08	1	1
BABINE L3E 1+75N	1	14	13	71	.1	22	8	337	2.25	3	5	ND	1	27	1	2	2	46	.34	.055	4	39	.62	78	.09	2	1.01	.01	.08	1	1
BABINE L3E 1+50N	1	39	7	154	.2	43	17	834	4.78	21	5	ND	2	39	1	2	2	68	.43	.092	5	37	.87	252	.02	3	2.51	.02	.25	1	1
BABINE L3E 1+25N	1	28	11	165	.3	36	14	787	3.73	12	5	ND	1	57	1	2	2	49	.67	.135	6	26	.63	234	.02	6	1.89	.01	.22	1	1
BABINE L3E 1+00N	1	17	10	117	.2	32	10	710	3.01	3	5	ND	1	51	1	2	2	37	.50	.167	6	22	.52	266	.04	3	1.57	.01	.20	1	1
BABINE L3E 0+75N	1	30	13	95	.1	26	12	999	3.36	8	5	ND	1	44	1	2	2	45	.58	.080	7	23	.51	267	.04	4	1.61	.01	.21	1	2
BABINE L3E 0+50N	1	42	12	90	.3	32	14	862	3.64	13	5	ND	1	55	1	2	4	51	.76	.102	9	28	.58	231	.04	5	1.67	.01	.24	1	1
BABINE L3E 0+25N	1	25	14	89	.2	30	13	1094	3.65	8	5	ND	1	39	1	2	2	48	.42	.032	5	25	.58	255	.04	4	1.94	.01	.14	1	1
BABINE L3E 0+00	1	25	17	125	.1	27	12	1389	3.04	4	5	ND	1	108	1	2	2	40	.96	.432	9	23	.39	389	.03	4	2.12	.01	.22	1	1
BABINE L4E 2+00N	1	16	5	55	.1	20	9	795	2.71	2	5	ND	1	25	1	2	4	55	.35	.039	5	36	.57	146	.08	4	1.36	.01	.08	1	1
BABINE L4E 1+87.5N	1	31	10	87	.1	26	11	824	2.90	6	5	ND	1	28	1	2	2	54	.44	.102	6	40	.69	194	.08	2	1.46	.01	.09	1	1
BABINE L4E 1+75N	3	19	9	60	.1	23	9	402	2.82	5	5	ND	1	24	1	2	3	55	.38	.033	5	38	.61	100	.08	2	1.29	.01	.05	1	1
BABINE L4E 1+62.5N	1	11	8	51	.2	14	7	562	2.00	2	5	ND	1	27	1	2	4	41	.35	.045	5	27	.44	115	.08	3	.95	.01	.08	1	2
BABINE L4E 1+50N	1	17	2	50	.2	20	8	461	2.42	5	5	ND	1	24	1	3	2	50	.37	.027	5	33	.54	162	.08	3	1.14	.01	.07	1	1
BABINE L4E 1+37.5N	1	28	9	124	.1	24	13	700	2.99	5	5	ND	1	25	1	2	3	66	.47	.062	4	34	.78	117	.08	2	1.94	.01	.07	1	13
BABINE L4E 1+25N	1	18	9	113	.1	25	10	765	2.60	4	6	ND	1	25	1	2	2	50	.36	.094	5	39	.62	157	.07	4	1.46	.01	.07	1	1
BABINE L4E 1+12.5N	1	33	12	80	.1	29	13	719	3.00	6	5	ND	1	29	1	2	2	61	.44	.046	7	42	.67	153	.08	2	1.52	.01	.11	1	1
BABINE L4E 1+00N	1	24	6	86	.1	24	10	763	2.80	2	5	ND	1	26	1	2	2	57	.40	.042	6	38	.61	129	.09	4	1.32	.01	.13	1	1
STD C/AU-0.5	21	57	38	132	6.9	65	30	1072	3.96	42	20	8	32	46	17	15	21	61	.48	.105	35	59	.88	171	.08	35	1.73	.06	.13	13	490

LACANA MINING PROJECT - BABINE FILE # 86-2512

PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	In PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mo %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	M PPM	Mg PPM
BABINE L4E 0+00E	2	110	19	170	.5	70	22	1953	3.67	27	5	ND	1	40	1	2	2	71	1.50	.093	8	80	1.15	399	.04	26	1.43	.01	.30	3	1
BABINE L4E 0+07.5M	2	25	4	205	.3	38	14	1193	2.95	5	5	ND	1	28	1	2	3	61	.41	.076	6	39	.64	126	.10	5	1.49	.02	.12	2	1
BABINE L4E 0+75M	3	33	6	326	.3	48	15	2335	2.88	3	5	ND	1	24	1	2	2	55	.35	.035	8	38	.55	246	.10	4	1.37	.02	.11	6	1
BABINE L4E 0+62.5M	4	23	6	240	.4	47	13	1624	3.09	8	5	ND	1	24	1	2	2	62	.36	.031	7	41	.60	258	.11	7	1.48	.02	.12	3	1
BABINE L4E 0+50M	2	51	12	141	.3	54	16	1390	3.27	11	5	ND	1	30	1	2	2	67	.60	.039	8	59	.79	275	.09	4	1.59	.02	.21	1	2
BABINE L4E 0+37.5M	3	86	17	133	.5	63	20	1446	3.78	20	5	ND	1	28	1	3	2	70	.62	.052	9	64	.82	253	.07	6	1.72	.01	.23	2	1
BABINE L4E 0+25M	3	84	15	145	.3	63	20	1839	3.73	16	5	ND	1	29	1	2	2	67	.63	.036	10	58	.78	336	.08	11	1.76	.01	.36	1	1
BABINE L4E 0+12.5M	2	114	19	131	.5	75	22	1778	3.73	32	5	ND	1	32	1	3	2	66	1.35	.058	10	66	.90	334	.06	10	1.75	.01	.30	2	1
STD C/AU-0.5	21	59	43	133	7.1	66	29	1085	3.94	41	21	7	32	46	17	15	21	62	.48	.103	35	58	.88	174	.08	33	1.72	.06	.13	14	510

PAGE A2-3

APPENDIX 2 cont.

.../A3-1

ULF-EM DATA - BABINE CLAIM - PHOENIX ULF-2 SERIAL# L1048

SEPT 02, 1986 *Standa*

LINE AND STATION	SEATTLE (24.8 kHz)			TIME	CUTLER (24.0 kHz)			ALTIMETER (METERS)
	DIP ANGLE	RESIDUAL	FIELD STRENGTH		DIP ANGLE	RESIDUAL	FIELD STRENGTH	
LIE-0400	0	0.04	160	8:45 AM	+2	0	145	1000 SET
0425	+2	0.02	165	8:48	+7	0.02	145	1009
0450	0	0.05	170	8:51	+8	0	150	1013
0475	0	0.10	190	8:55	+8	0	150	1019
1400	0	0.10	180	8:58	+8	0	150	1020
1425	0	0.10	175	9:03	+11	0	160	1023
1450	+10	0	175	9:07	+10	0	160	1022
1475	+13	0	170	9:10	+10	0	155	1030
2400	+13	0	170	9:15	+10	0.10	160	1032
2425	+12	0.05	175	9:19	+9	0.13	155	1038
2450	+11	0.05	185	9:23	+10	0.15	155	1048
2475	+6	0.05	195	9:26	+9	0.12	145	1050
3400	+4	0.05	190	9:30	+11	0.11	135	1060
3425	+2	0.08	185	9:34	+18	0.12	135	1070
3450	+2	0.10	175	9:38	+18	0.12	145	1088
3475	+1	0.06	195	9:42	+20	0.08	145	1098
4400	0	0.08	185	9:46	+18	0.05	140	1108
4425	0	0.06	190	9:50	+24	0.05	140	1120
4450	-1	0.03	175	9:53	+27	0.05	150	1132
4475	0	0.05	170	9:58	+28	0.03	155	1148
5400	0	0.08	165	10:02	+22	0.01	160	1162
5425	+2	0.10	165	10:06	+23	0	165	1177
5450	+6	0.10	170	10:11	+23	0.02	165	1182
5475	+5	0.12	170	10:14	+21	0.08	170	1198
6400	+5	0.10	175	10:17	+24	0.12	175	1202
6425	+5	0.12	180	10:21	+27	0.20	175	1210
6450	0	0.15	190	10:27	+29	0.22	185	1205
6475	-8	0.15	195	10:29	+35	0.30	195	1205
LIE-7400	-2	0.12	190	10:32	+18	0.15	320	1210
approx 7425	+2	0.01	190	10:35	+2	0.05	320	-
L2E-0400	0	0	180	11:30	+12	0.08	140	1000 SET
0425	-1	0	170	11:33	+14	0.08	140	1015
0450	+4	0	175	11:37	+14	0.08	140	1030
0475	+9	0	175	11:41	+22	0.12	135	1052
1400	+10	0	155	11:45	+22	0.15	150	1065
1425	+8	0	165	11:50	+18	0.10	165	1082
1450	+5	0.03	165	11:53	+18	0.10	165	1092
L2E-1475	+4	0.07	170	11:57	+18	0.10	175	1103

VLF-GM DATA - BABINE CLAIM - PHOENIX VLF-Z SERIAL # L1048

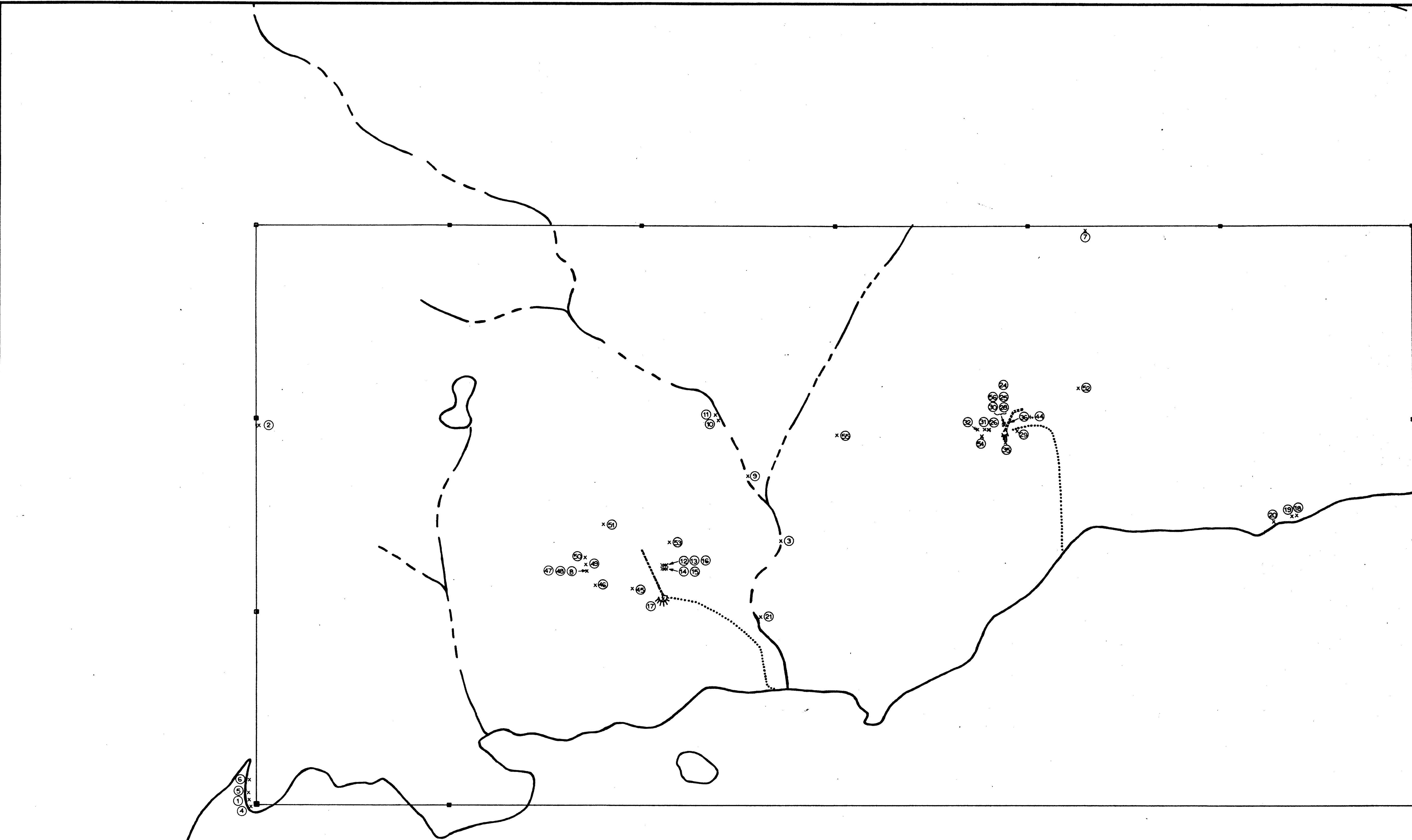
SEPT. 02, 1986 *St. Pauli*

LINE AND STATION	SEATTLE (24.8 kHz)			TIME	CUTLER (24.0 kHz)			ACT. MAG. (METERS)
	DIP ANGLE	RESIDUAL	FIELD STRENGTH		DIP ANGLE	RESIDUAL	FIELD STRENGTH	
L2E-2100N	+5	0.10	170	12:02	+18	0.08	185	1110
2125	+2	0.12	175	12:04	+12	0.03	195	1112
2150	+2	0.15	170	12:07	+10	0.03	200	1112
2175	-2	0.18	165	12:09	+10	0.08	195	1120
3100	0	0.15	160	12:12	+11	0.08	195	1130
3125	-2	0.18	165	12:16	+12	0.10	195	1133
3150	0	0.15	180	12:19	+13	0.08	200	1142
3175	+2	0.18	175	12:22	+17	0.10	200	1152
L2E-4100	+2	0.22	185	12:26	+19	0.08	245	1140
approx 4125	-5	0.05	195	12:30	0	0	300	-
approx 4150N	-	-	-	12:32	-8	0.08	290	-
L3E-0100	-8	0	145	13:20	-14	0.02	130	1000 set
0125	-4	0.01	145	13:24	-1	0.01	125	1000
0150	-3	0	155	13:27	+4	0	115	1005
0175	-1	0	160	13:29	+10	0.01	120	1007
1100	+2	0	165	13:32	+18	0.02	130	1010
1125	+4	0.02	165	13:36	+19	0.02	140	1010
1150	+4	0	170	13:38	+18	0.02	165	1010
1175	+4	0	170	13:41	+13	0.01	185	1010
2100	-2	0.02	175	13:43	+2	0.02	185	1008
2125	-3	0.02	180	13:46	-2	0.03	170	1009
2150	0	0.02	180	13:49	+2	0.08	150	1016
2175	+3	0.02	185	13:52	+4	0.08	135	1021
3100	+6	0	180	13:55	+10	0.12	135	1032
3125	+5	0.02	180	14:00	+11	0.10	160	1045
3150	+1	0.06	180	14:02	+4	0.01	160	1050
3175	+3	0.05	175	14:05	+13	0.05	145	1058
4100	+6	0.05	180	14:09	+16	0.05	150	1060
4125	+6	0.02	185	14:12	+9	0.01	160	1065
4150	+2	0.03	190	14:15	+6	0.01	165	1075
4175	+2	0.03	180	14:18	+8	0.02	150	1082
5100	+2	0.02	185	14:21	+14	0.03	150	1089
5125	+1	0.01	185	14:24	+16	0.01	150	1089
5150	0	0.02	185	14:26	+14	0.01	140	1092
L3E-5175N	-3	0.07	185	14:30	+20	0.01	140	1102

VLF-EM DATA - BAGINE CLAIM - PHOENIX VLF-Z SERIAL # L1048

SEPT 02, 1986 *EA Shaded*

LINE AND STATION	SEATTLE (24.8 kHz)			TIME	CUTLER (24.0 kHz)			ACTIMETER (METERS)
	DIP ANGLE	RESIDUAL	FIELD STRENGTH		DIP ANGLE	RESIDUAL	FIELD STRENGTH	
L4E-0100	+6	0.01	170	15:40	+43	0.10	130	1000 SET
01125	+10	0.01	165	15:43	+43	0.12	145	1010
0125	+13	0.01	165	15:47	+40	0.05	170	1018
01375	+11	0.02	170	15:51	+35	0.03	200	1032
0150	+9	0.05	170	15:54	+29	0.05	240	1038
01625	+4	0.03	190	15:57	+20	0.01	270	1052
0175	0	0.01	175	16:00	+11	0.10	290	1052
01875	-5	0.04	180	16:02	+3	0.08	280	1055
1100	-8	0.08	165	16:05	+2	0.12	250	1063
11125	-7	0.05	160	16:08	+3	0.23	230	1068
1125	-5	0.02	155	16:12	+5	0.25	220	1078
11375	-2	0.02	160	16:15	+8	0.30	205	1075?
1150	-2	0.01	155	16:19	+11	0.30	215	1075?
11625	-2	0.01	165	16:23	+12	0.30	225	1075?
1175	-1	0.03	170	16:25	+9	0.25	225	1070??
11875	0	0.01	165	16:28	+8	0.22	230	1078
L4E-2100	+1	0.01	170	16:31	+3	0.13	225	1092
L4E-0100	+6	0.02	155	16:42	+43	0.10	125	1012 REPEAT
L3E-0100	-8	0.01	150	14:48	-14	0.01	135	1005 REPEAT
L2E-0100	-1	0	175	12:52	+12	0.08	150	1003 REPEAT
L1E-0100	0	0.05	145	11:10	+3	0.01	140	990 REPEAT
.../END								



GEOCHEMICAL ANALYSES (PPM)*					
SAMPLE #	SILVER	COPPER	LEAD	ZINC	GOLD(ppb)
1	5.3	11	9102	8457	20
2	1.7	36	67	76	10
3	4.1	9	2003	1870	10
4	1.5	21	34	82	10
5	4.2	9	6188	7004	20
6	5.0	8	10946	6675	20
7	0.8*	51*	24*	80*	--
8	1639*	4600*	5140*	6000*	--
9	1.1	221	38	31	3
10	0.8	61	23	36	1
11	0.7	30	26	67	4
12	35.6	220	32616	9652	203
13	7.8	601	4713	5164	342
14	34.9	70	34591	13603	159
15	1.2	63	162	169	2
16	2.2	65	231	561	1
17	13.2	45	27739	10169	143
18	1.2	5	53	13	3
19	0.6	46	170	96	1
20	0.5	20	35	41	1
21	--	--	--	--	314
24	13000*	807	87	137	42800
24A	2800*	--	--	--	2040
25	5.4	71	44	61	6
26	27.9	20	70	296	43
28	128.4	82	56	488	61
29	0.8	143	26	103	--
30	4.3	137	72	83	--
31	0.7	69	34	153	--
32	0.8	54	24	108	--
35	0.1	104	27	14	<5
36	0.3*	78	12	93	<5
37	1.0*	20	53	187	<5
38	0.6*	91	13	140	<5
39	0.6*	55	12	74	<5
40	<0.1*	38	2	73	<5
41	0.4*	56	17	227	10
42	<0.1*	46	17	82	<5
43	0.3*	136	22	137	3
44	0.4*	80	13	128	<5
45	257.3*	730*	4500*	7500*	5
46	9.1*	--	--	--	3
47	152.9*	--	--	--	15
48	105.0*	131*	56000*	950*	30
49	3.0*	--	--	--	20
50	8.3*	--	--	--	10
51	0.3*	--	--	--	3
52	0.1*	--	7*	34*	3
53	0.6*	--	9*	59*	3
54	0.1*	--	2*	24*	4
55	22.0*	--	218*	259*	3
56	1.0*	--	49*	122*	1

\* All analyses except Au are ICP data except where marked with \* which are AA data.  
 -- = not analysed for.

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

15,358

Boling Point

BABINE LAKE



**LEGEND**

0                      250M                      500M.  
 SCALE: 1:5000

- = creek
- = trail
- = claim boundary
- = legal corner post
- = identification post
- = underground workings
- = mine dump
- = sample location

**MAP 4**  
**BABINE CLAIM PROJECT**  
 SAMPLE LOCATION & ANALYSES



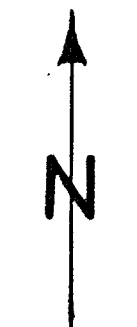


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,358

Boling Point

BABINE LAKE



**LEGEND**

0 250M. 500M.  
SCALE: 1:5000

= creek  
 = trail  
 = claim boundary  
 = legal corner post  
 = identification post  
 = underground workings  
 = mine dump

COPPER | LEAD  
 ZINC | SILVER → = soil analysis (ppm)

\* = definite anomaly  
 φ = possible anomaly

**MAP 6**  
**BABINE CLAIM PROJECT**  
**SOIL SAMPLE LOCATIONS & ANALYSES**

