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CALPINE RESOURCES INC.

Report on
Eskay Creek Project 1988 / 89

REPORT

ON THE

ESKAY CREEK GOLD PROJECT

FALL 1988 AND WINTER 1988-89

EXPLORATION PROGRAMMES

on behalf of

CALPINE RESOURCES INC./CONSOLIDATED STIKINE SILVER LTD.

by

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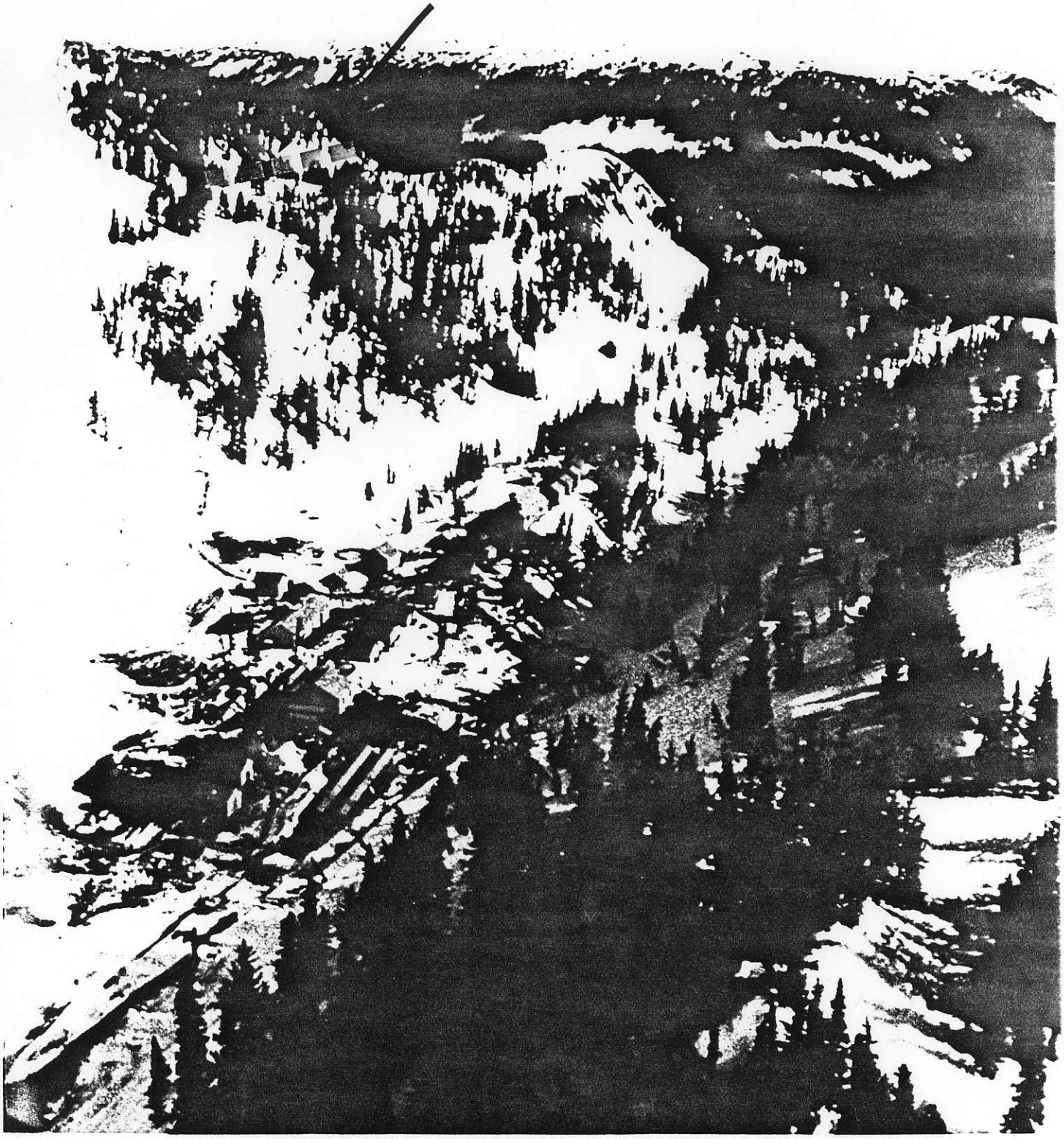
ESKAY CREEK PROJECT

TABLE OF CONTENTS

LIST OF FIGURES

21 ZONE DISCOVERY



ESKAY CREEK PROJECT

SUMMARY

The Eskay Creek Project is a 50-50 Joint Venture gold exploration project between Calpine Resources Inc. and Consolidated Stikine Silver Ltd., with Prime Explorations Ltd. as Project Operator. The project site is located 52 miles north of Stewart, B.C., or 23 miles east of the Snip Gold Deposit (Prime Resources Ltd. and Cominco Ltd. Joint Venture).

Numerous gold and silver prospects have been known and explored at Eskay Creek since discovery in 1932. At least twelve different companies have optioned and explored the ground prior to Calpine, with activity ranging from numerous surface drill campaigns (over 13,000 feet in 84 holes) to underground development on two zones. As part of the initial phase earn-in programme, Calpine undertook a re-evaluation of the north-central portion of the property, including the #21 and #22 Zones, where numerous partially explored gold-silver values were reported, including a 1985 drill hole on the #21 which assayed 0.122 oz/ton Au and 2.59 oz/ton Ag over a core length of 66 feet. Surface work by Calpine indicated potential untested extensions to this mineralization, and on the basis of high contrast soil geochemical anomalies, a six hole diamond drill programme was completed. Five holes tested portions of the #21 Zone, all intersecting mineralization, with DDH CA88-06 penetrating a thick lens of massive stibnite and realgar-bearing mudstone grading 1.33 oz/ton Au over a core length of 52.5 feet. Combined with adjacent modest grade mineralized tuff, this hole produced a cumulative intercept of 0.752 oz/ton Au and 1.13 oz/ton Ag over a core length of 96.5 feet. Subsequently, two phases of drilling have been undertaken through the winter months, with 69 drill penetrations now into the zone totalling 53,208 feet (end of May, 1989).

The #21 Zone Discovery is a stratabound gold-silver body with established dimensions of 1,475 feet of length, a dip extent of 980 feet with thicknesses up to 160 feet, striking 060°N dipping 25° to 45° northwesterly. The southwestern end of the zone is cut by a cross-fault, and further geological study is required to determine fault off-set in order to re-establish the concealed extension of the mineralized zone. The northeastern end is open, with holes CA89-67 & 69 indicating a strengthening of gold and silver tenor and thickness. The zone is also partially open downdip.

Mineralization within the #21 Zone is hosted by variably sheared and fractured graphitic mudstone and felsic debris breccia (Contact or Transition Zone unit) at the contact of overlying pillowed andesite flow rocks and intercalated sediments and an underlying rhyolite breccia. The footwall rhyolite breccia is intensely altered to a muscovite-quartz-pyrite assembladge, the

limits to which have yet to be defined. The host Contact Zone unit is variably altered, containing pervasive silica (chert), chlorite, muscovite, barite and hydrocarbon residues, plus a variety of sulphide, arsenide and native mineral species. The hangingwall andesite unit is barren of mineralization and is not altered. Mineralization within the Contact Zone is characterized by gold tenor in excess of 0.25 oz/ton and silver over 3.0 oz/ton, occurring in association with massive stibnite, realgar and orpiment which passes along strike and downdip into less massive to disseminated domains. Footwall rhyolite-hosted mineralization is characteristically from 0.01 to 0.25 oz/ton Au with variable silver from less than 0.25 to over 50 oz/ton, occurring in association with disseminated and fracture-filling sphalerite, galena, pyrite and tetrahedrite (and related species). Gold values report to native gold, amalgam and mercury-bearing wurtzite, and silver reports to amalgam, tetrahedrite minerals, gold and as yet unspecified sulpharsenide minerals.

A second zone of potential economic significance is indicated deep in the footwall, beneath a second graphitic sedimentary unit which underlies the rhyolite. Mineralization is hosted within a highly feldspar and quartz-altered dacite tuff unit, comprising semi-massive to disseminated pyrite, sphalerite, galena and tetrahedrite. Gold values are in the 0.01 to 0.15 oz/ton range, over core lengths of 5 to 15 feet. This deeper zone is not the objective of the current exploration programme, however sufficient drill penetrations have been obtained to suggest more detailed evaluation is merited.

Metallurgical work is currently in progress. An independent ore reserve estimate is similarly in preparation by Roscoe, Postle and Associates of Toronto.

An assessment of the exploration history of the property has been undertaken. This review has resulted in the identification of many additional mineralized zones, as well as highlighting various soil, rock and stream sediment geochemical anomalies which appear to have been ignored in past exploration programmes. No other zone contains mineralization identical to the new discovery at the #21, however several areas are selected for highest priority exploration status due to similar geological settings and the presence of footwall-style Au-Ag mineralization. The #22 Zone ie 4000 feet southwest ef the #21 Discovery. Here, mineralization extends over 1000 feet in length, 15 to 20 feet in width, within which are two important sub-lenses grading approximately 0.15 oz/ton Au and from 10 to 20 oz/ton Ag. The overlying contact with pillowed andesite units has not been tested, thus posing the possibility of a concealed stibnite-realgar type of target. The #5 and #23 area lay immediately east of the #21, and similarly contain footwall-style rhyolite-hosted gold and silver mineralization associated with base metals.

Realgar float is reported in the #5 area. Favourable Contact Zone geology is projected to underlie the area immediately north of these zones, also an area of high contrast soil geochemical anomalies. Numerous outstanding aoil, rock and stream sediment anomalies occur elsewhere on the property, and require detailed and systematic ground follow-up evaluation.

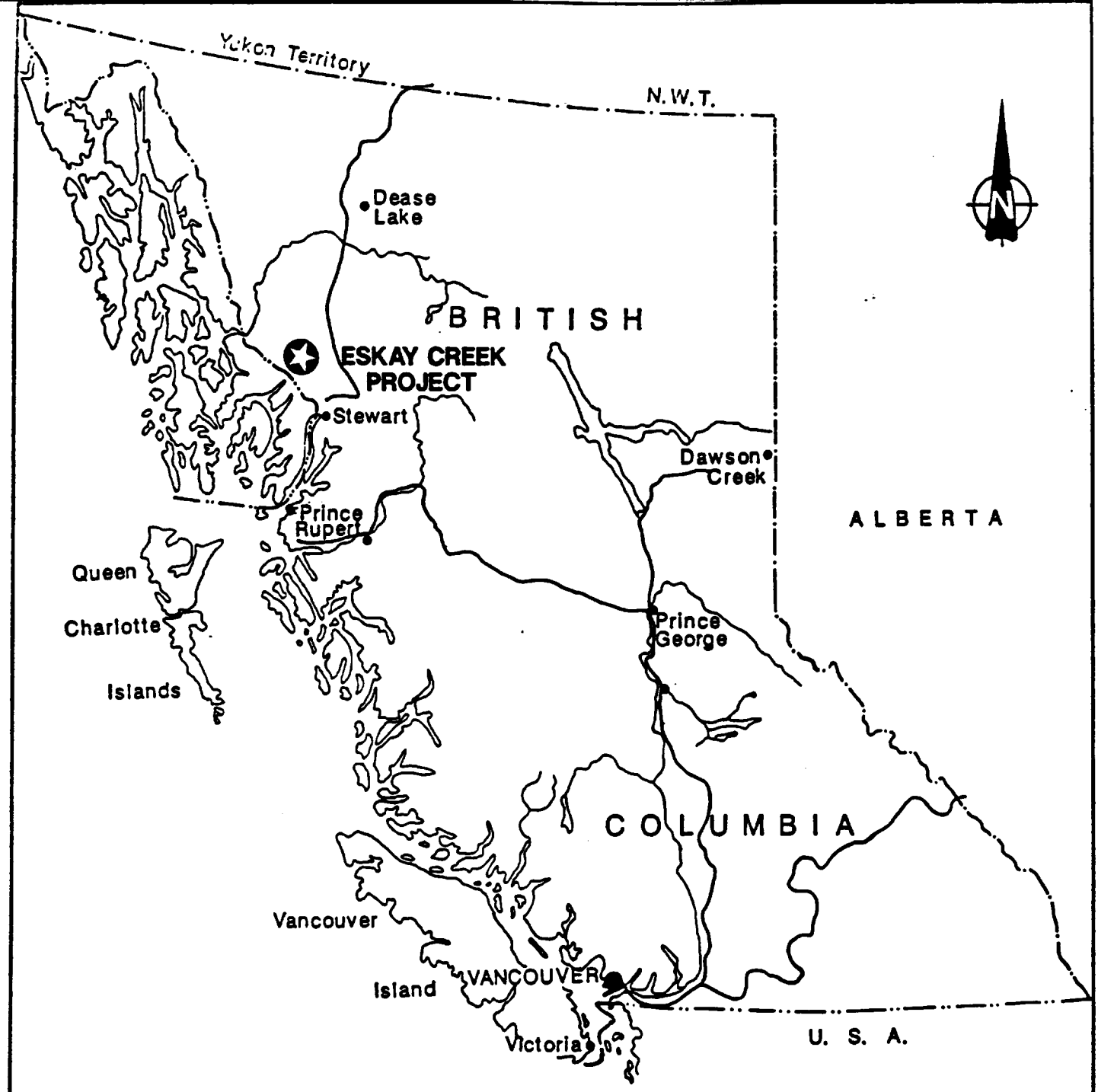
A helicopter-borne multi-frequency EM, magnetometer and VLF-EM was flown under contract during early 1989. Magnetic data derived from the survey is of greatest exploration value. Magnetic rock signatures within the property area are highly variable, and the "Aeromag" system appears to be successfully "mapping" bedrock features. A distinctive magnetic anomaly is detected on flight lines over the #21 Zone. This anomaly extends southwest and northeast of the currently drilled area, suggesting extensions in both directions of favourable geology beyond that currently drilled. A similar magnetic anomaly occurs over the #22 Zone area, on trend but distinct from the #21 anomaly. Several additional magnetic anomalies of similar signature are present elsewhere on the property, presenting targets for ground follow-up investigation.

As a result of the past seasons' exploration activity, the Eskay Creek Project is regarded as being a highly attractive gold-silver exploration venture. Drill testing of the #21 Zone has indicated the presence of an extensive gold and silver deposit, possibly amenable to open pit mining. The #21 Zone discovery represents a new and important type of precious metal mineralization to be found in Northwestern British Columbia. At other advanced exploration and development projects in the region gold mineralization is most commonly within shear-hosted quartz and carbonate lodes. At Eskay Creek however, mineralization is more clearly of a "volcanic epithermal" type, and the mineralizing process has affected large volumes of rock material resulting in extensive zones of altered, auriferous rock. Mineral chemistry and rock associations suggest mineralizing processes similar to those which produced "World Class" gold deposits such as Hemlo in northern Ontario, or those of the Carlin District in Nevada.

Recommendations for continued exploration at Eskay Creek fall under two differing objectives: first is to undertake sufficient detailed drilling, advanced geotechnical investigation, and environmental baseline studies to enable the #21 Zone to move to an advanced development phase in preparation for a feasibility study; and second is to implement a programme of property-wide evaluation of the gold and silver potential of other zones known or postulated to exist. The number of drill penetrations and hole density is currently insufficient to establish an indicated reserve suitable for mine feasibility study, and additional drilling is required, on minimum 80 foot (25 meter) centres. Additional exploration step-out fences are required north and

south of the mineralized block. The property-wide evaluation will emphasize identification of potential reserves in new zones outside that known to exist within the #21 Zone. The recommended programme includes geological mapping, prospecting, ground geophysical and soil geochemical surveys, stream and rock geochemistry, and diamond drilling. Emphasis is placed upon structural and stratigraphic interpretations based upon past and present data. Advanced geotechnical engineering studies of the #21 Zone are suggested, as well as site evaluations for a mine and mill complex, terrain evaluations for aggregate sources and surface infrastructure such as rpad links to the proposed Iskut River road and airstrip construction, environmental baseline study and monitoring, and additional metallurgical work on #21 Zone materials extracted from a 5 ton bulk sample.

A two phase budget, totalling $7,000,000 is recommended. Phase I work ($4,000,000) is to include all step-out drill fences, 25 meter in-fill holes on the central high-grade portion of the #21, bulk sampling, property-wide evaluations and establishment of all peripheral production-related studies. Phase II work ($3,000,000) is to cover the costs of additional reserve development programmes.



PRIME EXPLORATIONS LTD.

CALPINE RESOURCES INC.

ESKAY CREEK PROJECT

LOCATION MAP

Date: April 7, 1989

Drafted by: E.R.

INTRODUCTION

Objective

The objective of the 1988 earn-in Phase I programme on the Eskay Creek Project was to test the property for gold and silver mineralization by means of geological mapping, rock and soil geochemical sampling and a programme of limited diamond drilling. As the property had received considerable historical exploration by competitor companies, it was decided to concentrate efforts on that portion of the property north of #22 Zone, where drilling had previously indicated widespread gold and silver mineralization that was open along strike and at depth. This programme resulted in the discovery of high grade Au - Ag mineralization immediately north of the then known #21 Zone.

Subsequent to the encouragement obtained in the first six drill holes, a Phase II earn-in drill programme was completed by year end. This programme included seven additional holes, collared in such a manner as to test the projected strike extensions of the zone.

A Phase III Joint Venture drill programme between Calpine Resources Incorporated and Consolidated Stikine Silver Ltd. (January to May 1989, holes 17 to 70) was designed to test the strike and depth extensions of the #21 Zone, and to fill in portions of the zone to establish grade and thickness continuity.

Location and Access

The Eskay Creek project area is located 83 kilometers (52 miles) north-northwest of Stewart, B.C. (Figure 1) and 37 kilometers (23 miles) east of Prime Resources and Cominco's SNIP Deposit (Figure 2). Access is by helicopter from Bronson, Stewart or Bell II on the Stewart-Cassiar Highway, 25 kilometers to the east. Tom McKay Lake, 5 kilometers to the west is suitable for float plane landings, and an unused track runs from the property to the lake shore. An abandoned 425 meter (1400 foot) airstrip is situated 10 kilometers south of the property.

Road access within the region is currently under review, and several different development corridors are proposed. The Iskut River road (terminating at the Bronson Creek area) would pass within 20 kilometers of the project area. A link road from Eskay to the Iskut River is possible utilizing a low elevation pass. A second corridor is the Unuk River road, which would pass through the property to access merchantable timber and a proposed porphyry gold-copper mining project (the Kerr deposit) downstream.

The nearby Iskut River has been extensively studied for possible hydroelectric development by B.C. Hydro. This includes extensive

site engineering and terrain analyses, plus feasibilty studies. The project is currently suspended.

The project area has undergone ccnsiderable exploration since the first staking in 1932, and limited development work has resulted in an extensive network of cat roads between the camp area and the abandoned airfield to the south. Though all tracks are currently in disrepair, rehabilitation would not be difficult, and extensions northward to the #21 Discovery area are possible.

The property lies within a high annual precipitation region, and numerous continuous-flowing creeks and small lakes are present. Local sources of fresh water are present for both domestic and drill consumption, and large volumes of fresh water are available for use during mining activity. Several small lakes with well-defined, small watersheds and easily dammed outflow channels occur in the immediate #21 area. Limited quantities of sand and gravel are locally available along Mackay and Argillite Creeks.

Physiography

The Eskay Creek Project is located on the Prout Plateau within the eastern flank of the Coast Mountains. The Prout Plateau is a rolling massif ranging from 850 to 1300 meters elevation above sea level, characterized by severely glaciated, rocky terrain and sub-alpine vegetation. Relief on the property is approximately 200 meters and is locally sharp.

The property straddles a ridge, with Argillite Creek on the west and Eskay Creek on the east. Both creeks drain north and join Mackay Creek, a tributary of the south-flowing Unuk River. The Unuk River valley is located approximately 2.5 kilometars east of the property, comprising a relatively narrow, heavily forested canyon.

Climate

There is no meteorological data for the immediate project area. Historical records and current operating experience suggest that annual precipitation is heavy, much of which falls as snow in January and February. Summer conditions last from late June to the end of October, and are characteristically coast insular or temperate and wet. Winter conditions span the remaining calendar months, during which snow accumulations can exceed 10 meters. Winter conditions are difficult to predict, as the controlling factor is a continuous onslaught of warm, moist low pressure systems from the Gulf of Alaska which rise over the Coast Range and dump snow along the divide regions. The interior regions immediately east are usually dominated by an arctic high pressure cell, which can become extremely well-entrenched, resulting in outflow conditions and prolonged spells of cold, dry weather.

Iskut River Area

Eskay Creek Area

CONS. GOLD WEST

CONS. GOLD WEST

CORONA

CONS. GOLD WEST

CORONA

PEZGOLD (INTL. PRISM)

ACHILLES

AVONDALE

LINK / CORONA

TICKER TAPE / CHERYL RES.

PEZGOLD (INTL. PRISM)

ADRIAN

INT. PHOENIX

LINK / CORONA

PEZGOLD (INTL. PRISM)

INTL. WILDCAT

PEZGOLD (IVANSTATES REE)

INTERSTATE

ROCKRIDGE MINING CORP.

CONS. BEL.

TIDE POWERHEM

MAGENTA RES.

CHERYL

PRIME

(GOLDEN BEAR RES / AMERICAN ORE)

LINK / CORONA

DANSTAR (ASCOT RES.)

PRIME (COMPACT)

NORMAN

RED WOOD

GIGI

E & L DEPOSIT (3.2 million tons 0.8% Ni, 0.6% Cu)

LINK / CORONA

SNIP DEPOSIT (1.57 million tons 0.64 oz/t Au)

Skyline Explorations Ltd.

PEZGOLD (SKYLINE EXPLNS LTD.)

PEZGOLD (INTL. PRISM)

JOHNNY MTN. GOLD MINE (686,000 tons at .57 oz/t Au)

LINK / CORONA

PEZGOLD (INTL. PRISM)

GOLDEN NEVADA / RAVENROC

TAMAVACK / CALVADA

ADRIAN (ARC)

CALPINE (Conoco / ARC)

TAMAVACK / CALVADA

CHERYL

CALPINE/ CONS. STIKINE

21 ZONE DISCOVERY

G. Preciperdine

ARGO DEV. CORP.

TANTALUS RES. LTD.

SULPHURETS GOLD ZONE (20 million tons at 0.06 oz/t Au)

SNOWFIELD GOLD ZONE (25 million tons at 0.08 oz/t Au)

BRUCEJACK - WEST ZONE (854,072 tons at .354 oz/t Au, 22.94 oz/t Ag)

NEWHAWK - CORONA - GRANDUC

CONS.

REGAL

CREST CORP.-TECH

GOODGOLD RES. LTD.

E.L.E. ENERGY

KIKO LORI

INTL. MAPLE LEAF

DOC PROPERTY RESERVES (470,000 tons at 0.27 oz/t Au and 1.31 oz/t Ag)

PROPOSED ROAD ROUTE

STEWART - CASSIAR HIGHWAY

ISKUT RIVER

BOWSER LAKE

BOWSER RIVER

British Columbia - CANADA

Alaska - U.S.A.

MAP AREA

Wrangell

Stewart

British Columbia

VANCOUVER

U.S.A.

0 200 miles

NOTE: While we believe this information to have been obtained in accordance with standard industry practices, we make no representation with respect to, nor do we assume any responsibility for the correctness thereof.

PRIME EXPLORATIONS LTD. May 9, 1989

Kilometres 0 2 4 6 8 10 20

0 2 4 6 8 10 Miles

PRIME EXPLORATIONS LTD.

ISKUT RIVER AREA LOCATION

(Drafting E.R. Prime Explorations February 1989)

FIG. 2

Notwithstanding the unpredictable nature of the local weather, year-long operations can be sustained by maintaining a properly winterized camp and providing a programme of avalanche control. Numerous other year-round projects are underway within the region, including the development projects at the Snip, Premier, Sulphurets, and Catear deposits and year-round production at the Johnny Mountain Gold Mine. The current exploration programme at Eskay has clearly demonstrated that cost-effective winter exploration campaigns can be mounted.

Tenure

Claims

The Eskay Creek Property consists of thirty 2-post mineral claims located in the Skeena Mining Division (Figure 3). The claims are situated in NTS map-sheet 104B/9W, centered about 56°37' north latitude, and 130°29' west longitude. Claim descriptions are as follows:

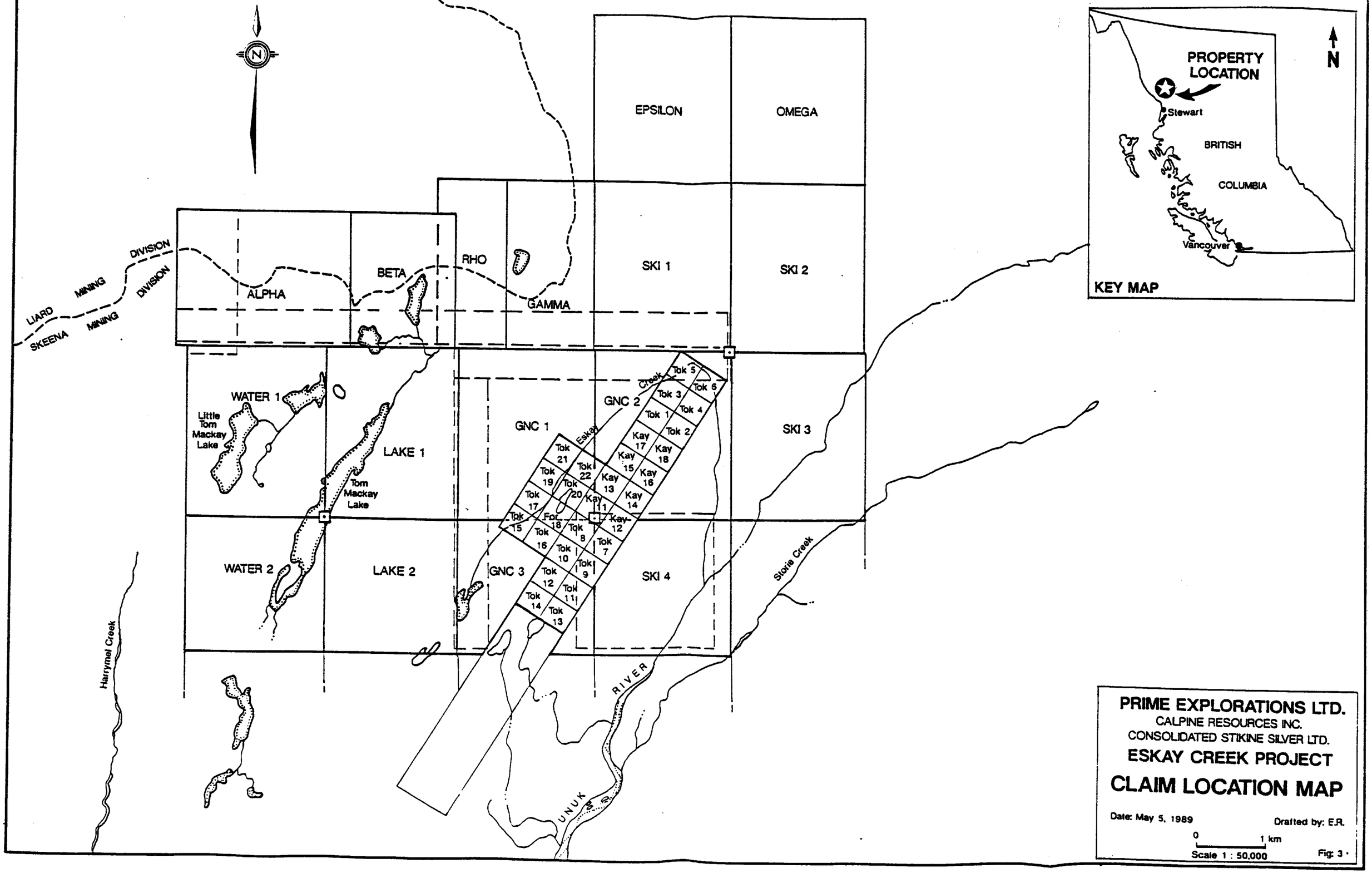
Claim Name	Record Nos.	Location Date	Expiry Date
TOK 1-6	37248-37253	May 25, 1972	May 31, 1999
TOK 7-14	37254-37261	May 26, 1972	May 31, 1999
TOK 15-22	37421-37428	Aug. 16, 1972	Sep. 6, 1999
KAY 11-18	21077-21084	Oct. 2, 1962	Oct. 11, 1999

Additional work has been filed on the claims totalling 8 years so as to bring them to the current maximum of 10 years in good standing.

Agreement

An agreement dated May 5, 1988 between Calpine Resources Incorporated ("Calpine") and Consolidated Stikine Silver Ltd. granted Calpine an option to earn up to a 50% interest in the property covered by the above-noted claims. The terms of the agreement stipulate that Calpine must spend $300,000 CDN in each of the ensuing three years in order to earn a 15% interest in 1988, a 15% interest in 1989, and a 20% interest in 1990. As of December 31, 1988, Calpine exceeded the aggregate of $900,000 in expenditures ($1,136,685 total 1988 expenditures) and vested its 50% interest in the property.

The Eskay Creek Project is operated on a 50/50 Joint Venture basis between Calpine and Consolidated Stikine with Prime Explorations Ltd. as the project operator.



PRIME EXPLORATIONS LTD.
CALPINE RESOURCES INC.
CONSOLIDATED STIKINE SILVER LTD.

ESKAY CREEK PROJECT

CLAIM LOCATION MAP

Date: May 5, 1989 Drafted by: E.R.

0 1 km
Scale 1 : 50,000 Fig: 3

History

The Eskay Creek area has undergone numerous exploration campaigns since discovery in 1932. The following summarizes both the known history and the reports available (Appendix I).

1932-1934: Property staked by syndicate headed by Tom MacKay, grouped as the Unuk Gold Group to the south and the Unuk Valley Gold Group to the north. Various tie-on claims staked north and south by individuals from Alaska, including the S.B.P. Group and Unuk Ventures Ltd. Exploration activity concentrated upon the Unuk Gold property, including prospecting, trenching and diamond drilling totalling 857 feet in 11 holes.

1935-1938: Premier Gold Mining Co. Ltd. options both claim groups from the MacKay Syndicate and undertakes an extensive surface exploration program, under the direction of Gavin Dirom. Starting from the south and working north to the current #21 Zone, a mine grid was developed using brunton and tape with an aneroid barometer, supplemented by some stadia and transit measurements. Outcropping mineralization was trenched and assigned a numeric designation (i.e. 21 O.C. or open cut), with individual trenches within the zone assigned an alphanumeric designation (hence 21K O.C.). Trenches were channel sampled, assaying done mostly at Premier with some done on site. From 1935-1937, 38 small diameter diamond drill holes totalling 5,988.5 feet were completed.

1939: Selukwe Gold Mining & Finance Co. Ltd. (corporate background unknown, however it appears to have financed MacKay, and subsequently rolled asset into Canadian Exploration or Canex, which later became Canex Aerial, then Canex Placer, then Placer Development and now Placer Dome) financed program of underground exploration, managed by syndicate and held under the name Mackay Gold Mines, Ltd. Work included a 60 foot adit on the #13 O.C., a 276 foot adit on the North End Workings (now commonly referred to as the MacKay adit), an extensive in-house review of the previous Premier programs, and additional sampling and trench enlargements on the #21 & #22 O.C.

1940-1945: Exploration activity suspended, MacKay serving in R.C.A.F., eventually rising to the position of Wing Commander (Halifax).

1946: Canadian Exploration Ltd. options (?) property and undertakes an extensive program of geological mapping, camp and road construction, trenching and underground development on the North End Workings. Program under the direction of F. Whiting. During this program the MacKay adit was extended to 360 feet. Option abandoned in late 1946-early 1947 partly due to poor results but largely due to the project logistics not sitting well with Head Office.

1947-1952: Original MacKay holdings gradually reduced to 2 located claims. American Standard Mines Ltd. with Pioneer Gold Mines of B.C. Ltd. and New York-Alaska Gold Dredging Corp. staked 36 claims (Canab Group).

1953: American Standard et al surface program, reported by Western Miner to include "trenching, open cutting and preparation for diamond drilling". Mackay holdings under title of Unuk River Gold Mines Ltd.

1954-1962: No clear picture of exploration activity. In late 1962 Tommy J. McQuillan stakes Kay 1 to 18 on behalf of Western Resouroes Ltd., followed in August 1963 by the addition of Kay 19 to 36.

1963: Western Resources Ltd. completes 480 feet of drifting and crosscuts on the Emma Adit. between the #6 O.C. (Emma) and #22 O.C.

1964: Property registered under Stikine Silver Ltd. and optioned to Canex Aerial Exploration Ltd. C.A.E. undertakes a program of underground diamond drilling at the Emma Adit totalling 737 feet in six holes. Underground mapping, trench sampling of trenches in the #22 O.C. area, and a limited program of regional stream silt geochemistry. Option relinquished due to lack of encouragement.

1965: Stikine Silver Ltd. extended the Emma Adit to 586 feet, blasted and sampled 18 trenches, 13 pits and drilled 3 diamond drill holes (total 52 feet).

1967: Mount Washington Copper Co. obtains option on property and undertakes a program of reconnaissance scale ground EM-16 and fluxgate magnetometer surveys across much of the property, plus some thin section petrography of hand specimens.

1968-1970: No record of activity, though a Northern Miner article dated April 23, 1970 reports the signing of a letter of intent between Granduc Mines and Stikine Silver. It appears that the deal was never consummated, although Newmont Mining Corp. did an examination on the property.

1971-1972: Stikine Silver Ltd. continued surface exploration activity in the vicinity of the #22 Zone. A bulk sample totalling 1.68 tons was shipped to Trail in 1971. An airstrip was built 4 miles south at this time.

1973: Kalco Valley Mines Ltd. options property and undertakes a surface program at the north end of the #22 Zone. This includes 983 feet of diamond drilling in seven holes and a review of other mineral occurrences on the property. One drill hole returned 0.78 oz/ton over 14.5 feet. The claim holdings of Stikine are

now listed as totalling 30 and include the Kay 11-18 and Tok 1-22 (current registered holdings), and Consolidated Silver Butte has obtained a contiguous 16 claim package to the south.

1974: No record of activity.

1975-1976: Texasgulf Canada Ltd. options both the Stikine and Silver Butte properties and undertakes an intensive program of geological mapping, grid Shootback EM and magnetometer surveys and completed 1,225 feet of diamond drilling in seven holes. Six holes were drilled in the #5 O.C. vicinity and one at the #6 O.C.

1977-1978: No record of activity.

1979: May-Ralph Resources Ltd. optioned property and high-graded the upper trenches on the #22 Zone. A total of 9.65 tons of cobbed ore was helicoptered out and shipped to Trail. This lot yielded 40.62 ounces Gold and 819.54 ounces Silver! Program was apparently under the supervision of C.R. Harris.

1980-1982: Ryan Exploration Ltd. (Canadian exploration arm of U.S. Borax) options both the Stikine and Silver Butte properties and undertakes an extensive program of stream sediment sampling, geological mapping, rock geochemistry, soil sampling, trench and adit sampling,and complates 1,484 feet of diamond drilling on the #22-#6 Zones and the Mackay Adit area.

1983-1984: Apparently inactive.

1985: Kerrisdale Resources Ltd. options Stikine Silver ground and completes a program of rock geochemistry, grid soil sampling, prospecting and 2,041 feet of diamond drilling in 5 holes. Exploration is concentrated the #21, #5 and #22 Zones. Four holes were drilled in the #21 and one at the #22.

1986: Apparently inactive. Name change to Consolidated Stikine Silver Ltd.

1987: Consolidated Stikine Silver undertakes a program of splitting and assaying additional Kerrisdale core, a small stream sediment geochemical survey, grid soil sampling, and rock sampling of the available trenches in the #21, #5 and #23 areas and the #3 Bluff.

1988 and current: Calpine Resources Inc. undertakes a program of geological mapping, soil geochemistry and diamond drilling which culminated in the discovery of high-grade gold mineralization over substantial thicknesses immediately north of the #21 Zone. Property is held under a Joint Venture operating agreement between Calpine Resources Inc. and Consolidated Stikine Silver Ltd. on a 50:50 basis. Exploration activity is on-going.

Field Procedure

Calpine Resources Inc. commenced field work on the Eskay Creek property on August 7, 1988. Keewatin Engineering of Vancouver was field operator. Upon completion of camp construction, August 15, an exploration crew consisting of three assistants and one geologist began the preliminary examination of the property. The #21, #22, and #5 Zones were examined briefly in an attempt to identify and prioritize drill targets. Grid coverage totalling 23 km was established by chain and compass, consisting of cross lines at 100 m spacing with stations at 25 metre intervals. Soil samples were collected for geochemical analyses for gold, silver, lead and zinc. As grid coverage progressed, the various zones and intervening areas were geologically mapped, continuing through to October 1st. In the course of mapping, several areas were idantified fer extensive chip and channel sampling, and analyzed for gold, silver, lead and zinc. With the anticipation of inclement weather, it was decided that drilling should commence prior to the completion of mapping and sampling. Consequently, an F-1000 BQ drill was moved onto the property September 15th. Much of the core was logged at the drill sites, and because of the difficulty previous operators had with visually identifying mineralization, every meter of core was split and sampled. Prior to demobilization, the core from previous drill programs was also reexamined and resampled. The original exploration crew was demobilized October 2nd.

Inclement weather resulted in the suspension of field work for the month of October. During this period assay data were received indicating significant gold intersections in drill holes CA88-5 and CA88-6. These results prompted a second phase of drilling which commenced November 19.

During this fall drilling phase, one Longyear 38 drill was used to drill NQ holes CA88-7 to CA88-16. By hole CA88-9 the strike and dip of the zone had been tentatively established. Subsequent drilling on sections oriented at an azimuth of 150°; tested the zone along strike with 25 or 50 metre step outs and the downdip extension with either 25 or 50 metre steps down the longitudinal section.

A John Deere 450 was utilized for drill site preparation and drill moves. This proved satisfactory for snow depths up to eighteen feet. Snowmobiles provided ground transportation for men and light equipment between the drill sites and main camp. For this fall phase, the camp was winterized and expanded to handle 15 men.

January marked the start of a 45,000 foot drill program and a second Longyear 38 was mobilized onto the property. The camp capacity was expanded to house up to 40 men. A Bombardier BR-400 tracked vehicle was brought in to aid snow removal and to assist

drill moves. It proved to be highly efficient. Drilling finished on May 4, 1989, and the camp was deactivated shortly thereafter, leaving two men for site clean-up and camp maintenance.

Data Processing

Assay and drill hole geological data have been entered using the Geolog system from Lynx Geosystems Ltd., Vancouver, and licensed to Keewatin Engineering. The geological drill hole data format was setup and entered at the Calpine Camp by I. McCartney. This provided a re-check of the drill logs, and involved some re-examination of drill core with site geologists. A summary report on the Geolog database is included in this report as Appendix VIII. Plotted output (strip logs at 1:500) has been done by D. Novak and I. McCartney, both of whom are consulting computer geologists familiar with Geolog.

Current procedure at Eskay Creek involves drill data records as hand written logs and sections. It is anticipated that the programme will become increasingly reliant upon a computerized geological and engineering database as exploration and development advances.

Drilling

Three stages of exploration drilling have been completed. The initial stage completed in September 1988 totalled 776.5 metres (2,548 feet) in 6 holes (CA88-1 to 6) of BQ core. Hole CA88-1 tested footwall dacite units below #3 Bluff and returned low gold and silver values in the ppm range. Holes CA88-2,3,4 were drilled to test the Zone #21 trench mineralization and CA88-5 and 6 to test for mineralization downdip and along strike from values obtained both in holes CA88-3 and 4, and earlier holes drilled by Kerrisdale. Both holes produced core samples indicating strong alteration and mineralization. The best assays were from CA88-6 (96.5 feet of 0.752 ounce per ton Au and 1.13 ounce per ton Ag) which is essentially the "discovery hole".

The second stage of drilling, started in November was completed by December 23, 1988, totalling 2,099 metres (6,885 feet) in 10 holes (CA88-7 to 16). This etage was designed to define the attitude and demonstrate the potential magnitude of the gold mineralization in the #21 Zone.

The winter drill exploration stage initiated in mid-January of 1989 was completed on May 4th, comprising 13,467.9 metres (44,212 feet) in 54 holes of NQ core. To date a total of 16,217.9 metres (53,208 feet) in 69 holes has been drilled on the #21 Zone by Calpine. All drilling was done under contract by Falcon Drilling Ltd., Prince George, B.C.

A drill hole summary on the #21 Zone is shown in Table 1, Appendix IV. The drill hole plan map (Figure 4), geological and drill-Au sections, together with the drill logs and assays are shown in Appendix IV. A longitudinal section of the #21 Zone is shown in Figure 5.

An independent drill consultant, H. Crittendon, evaluated drilling proeedures. Principal concerns with respect to drilling at Eskay Creek include core recovery, hole deviation, fluid and mud consumptions, and loss of circulation. Crittendon's conclusions and recommendations are provided under a separate report. Drill procedure has been modified to accommodate his specific suggestions.

Split core samples for holes CA88-1 to 16 were sent to Bondar Clegg of Vancouver for analyses. Every 15th sample (pulp) was sent to TSL, Saskatoon, for holes CA88-7 to 16 as an assay check. During the third drilling stage two drills were used and a procedure was employed whereby split core from each drill were sent to Bondar Clegg and TSL respectively. Random samples were cross checked by each laboratory.

Core samples sent to Bondar Clegg were fire assayed with an AA finish for Au and Ag using a one assay ton charge. If the gold value exceeded 0.100 ounce per ton, the sample was then re-assayed with a gravimetric finish. Samples assaying greater than 0.750 ounce per ton Au were analyzed for metallic gold (metallic sieve assay). The earlier drill holes CA88-1 to 6 were analyzed geochemically for Au, Ag, Pb and Zn with selected samples analyzed further using the ICP method. Selected mineralized sections were also assayed for Pb, Zn, As and Sb. Analytical procedures are shown in Appendix V.

Core samples sent to TSL Labs were fire assayed with a gravimetric finish for gold. Silver was assayed using an acid digestion (HCL-HNO3) and an AA finish.

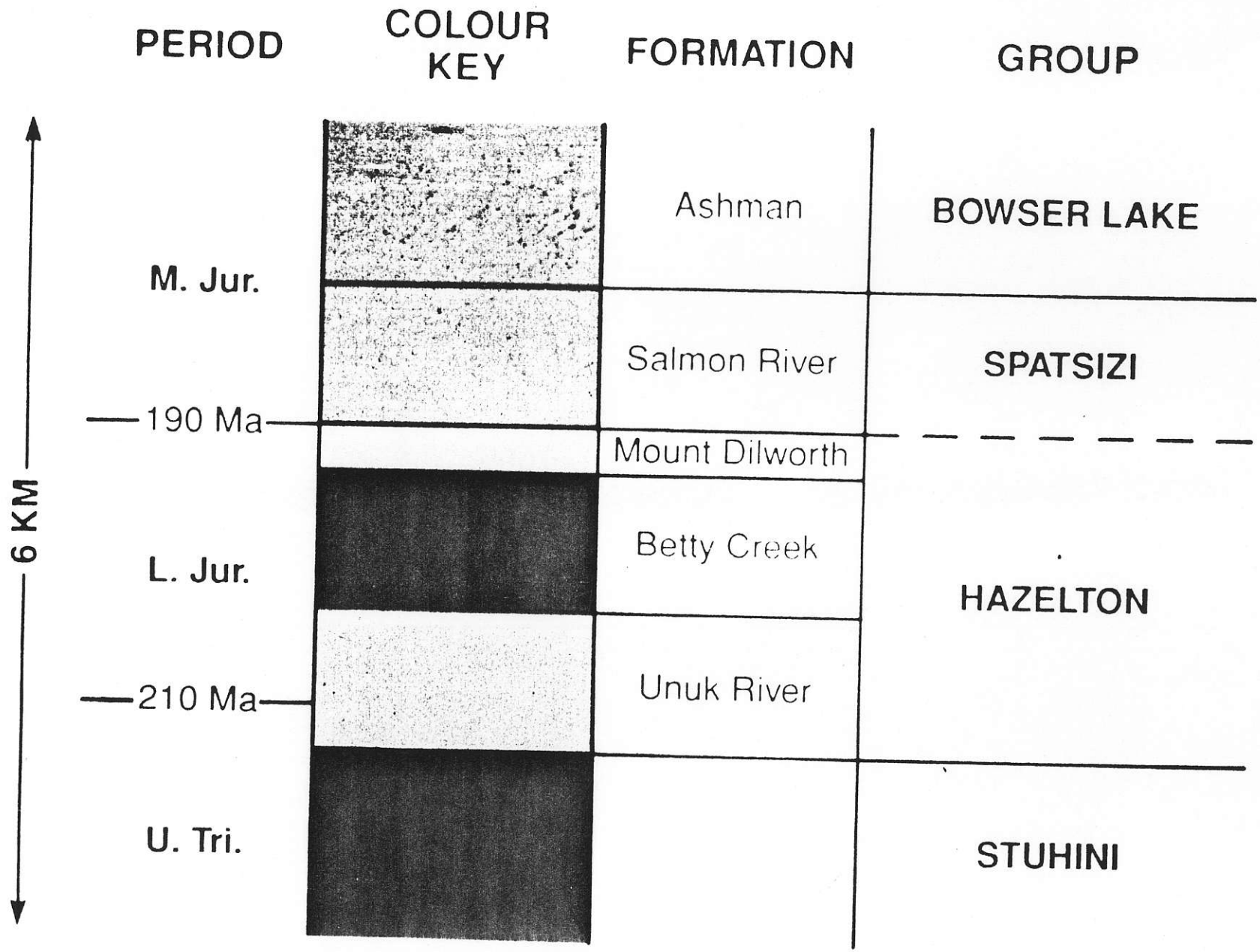
Expenditures

Earn-in Phase I and Phase II expenditures to December 31, 1988 total $1,137,571.

Joint Venture Phase III expenditures, January 1 to June 11, 1989 total $3,945,452.

Total expenditures for the Eskay Creek Project are $5,083,023. This total includes all expenses incurred by Calpine Resources Ltd. as part of its earn-in obligations to vest a 50% interest in the property (including expenditures in excess of the Earn-in $900,000 requirements), as well as subsequent Joint Venture expenditures costed on a pro-rata 50% equity basis.

All expenditures have been audited by representatives of the Joint Venture Management Committee.


PERIOD
COLOUR KEY
FORMATION
GROUP
6 KM
M. Jur.
190 Ma
L. Jur.
210 Ma
U. Tri.
Ashman
Salmon River
Mount Dilworth
Betty Creek
Unuk River
BOWSER LAKE
SPATSIZI
HAZELTON
STUHINI

GEOLOGY

Regional Geology

The Unuk River area (figure 7) is underlain by thick, weakly metamorphosed Upper Triassic to Lower Jurassic volcanic and sedimentary arc-related units overlain by Middle Jurassic successor basin sedimentary units (Britton et al, 1989). Inconclusive evidence of late Triassic deformation exists. Large-scale northeast plunging vertical folds and major north-trending cataclastic and fault zones are thought to be principally related to late Jurassic to early Cretaceous plutonism and orogenesis.

Regional geological mapping by the Geological Survey of Canada, the British Columbia Ministry of Energy, Mines and Petroleum Resources and Newmont Mining Corp. (Granduc Mines Ltd.) has resulted in selective areal map coverage and a working stratigraphic column (Figure 6). Government reconnaissance mapping is on-going, and revision to the current understanding is anticipated. Rock unit correlation is based upon fossil control and gross unit similarities to adjacent southern map areas where more detailed geological mapping has been undertaken.

Stuhini Group

Upper Triaasic volcanio and sedimentary rocks tentatively correlated to the Stuhini Group occur east of the Unuk River and west of Harrymel Creek (figure 7). Stuhini rocks include variably deformed and metamorphosed siltstone, wacke, conglomerate and limestone overlain by basalt to andesite flows and breccias and locally dacite pyroclastic tuffs and breccias.

Hazelton Group

Unuk River Formation:
Earliest Lower Jurassic Unuk River Formation occur at moderate elevations east of the Unuk River and west of Harrymel Creek. The Unuk comprises a relatively monotonous sequence dominated by green andesite tuffs, flows and subordinate pyroclastic rocks, intercalated with wacke, siltstone, and minor conglomerate.

Betty Creek Formation:
Overlying the Unuk is the Lower Jurassic Betty Creek Formation, outcropping throughout the Unuk valley. The Betty Creek comprises red, maroon to green volcaniclastic conglomerate, andesite and dacite pyroclastic tuff and breccias with intercalated grit and arenaceous wacke.

Mount Dilworth Formation:
Overlying the Betty Creek is the Lower Jurassic Mount Dilworth Formation, outcropping on the Prout Plateau and at higher elevations west of Harrymel Creek and east of the Unuk River. The Mount Dilworth comprises dacite to rhyolite pyroclastic breccias, bedded tuff and subordinate flows and flow breccias.

Salmon River Formation:
Late Lower Jurassic Salmon River Formation outcrops north and west of the Prout Plateau. It comprises a drab sequence of grey siltstone, fine-grained arenite, chert and limestone.

Bowser Group

Ashman Formation:
Middle Jurassic units thought to be equivalent to the basal Ashman Formation occur on the Prout Plateau in the vicinity of Tom Mackay Lake. Ashman rocks include chert pebble conglomerate, grey to black mudstone and wacke and subordinate limestone and mafic volcanic flows.

Cenozoic to Recent subaerial olivine basalt flows and tephra are distributed widely in the region, though none are reported on the Prout Plateau. Deposits are widespread in the major river valleys, such as the Unuk, as well as in the Cone Glacier area, west of Harrymel Creek. Valley bottom deposits tend to be characterized by palisade-type sheet flows. At higher elevations ice-contact cones, domes and tephra fields predominate. Numerous felsic and mafic dykes, thought to be coeval with the young volcanic deposits, are locally abundant.

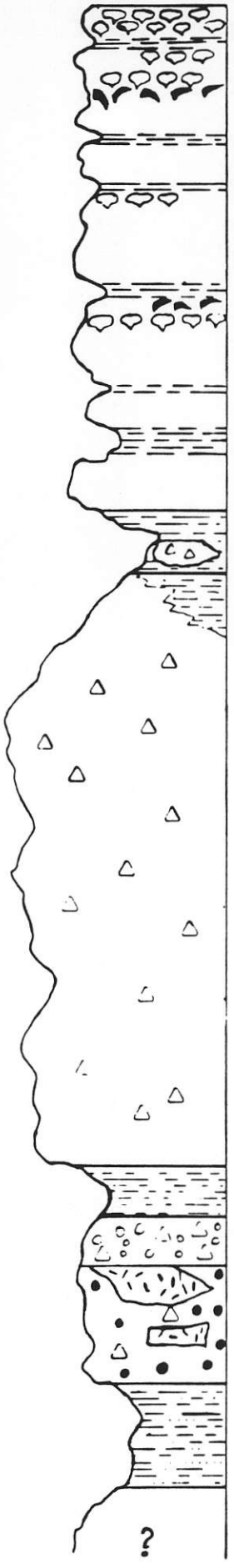
Intrusive Rocks

Government mapping has not located any intrusive rocks on the Prout Plateau. Elsewhere in the region a variety of intrusives are documented, including Triassic gneissic quartz diorite stocks, Jurassic diorite and gabbro stocks and feldspar-porphyritic granodiorite and syenite stocks and sills, and Tertiary feldspar-porphyritic monzonite stocks and felsic or basic dyke swarms. The eastern contact of the Tertiary Coast Plutonic Complex is approximately 25 kilometers southwest of Eskay Creek.

Metamorphism

According to Britton et al (1989) regional metamorphic rank is lower greenschist, characterized by saussuritized plagioclase feldspar, chlorite after mafic minerals, and white mica after clay. Metamorphic rank locally increases to lower amphibolite within one kilometre of the Coast Plutonic Complex. Contact metamorphic hornfels zones are common adjacent to the larger igneous intrusives.

STRATIGRAPHIC COLUMN - 21 ZONE



PILLOWED ANDESITES PILLOW BRECCIAS

HYALOCLASTITE

MUDSTONE black pyrite rich fossiliferous

HANGINGWALL ANDESITE UNIT
0 - 140m

ANDESITE SILLS AND FLOWS
ANDESITE CRACKLE BRECCIA

CONTACT ZONE 0 - 12m

GRAPHITIC ARGILLITE

TRANSITION ZONE DEBRIS BRECCIAS

RHYOLITE MUDSTONE RHYTHMITE

BRECCIA LAPILLI and ASH TUFFS

RHYOLITE UNIT
3 - 150m

RHYOLITE BRECCIA
minor MASSIVE RHYOLITE

ASH and LAPILLI TUFFS

MUDSTONE

VESICULAR FLOW TOP BRECCIA

FOOTWALL DACITE UNIT
50 - 200m

DACITE TUFF

LITHIC TUFF

MUDSTONE with minor GREYWACKE

VERTICAL SCALE 1:1000

FIG 6

Deformation

Folding:
Outcrop to regional scale, upright to slightly overturned vertical folds are documented both in the Eskay Creek area and the surrounding region. Fold axes trend 020 to 035° North, plunging 0 to 15°N. On the Prout Plateau a schistose rock fabric is present which may reflect this phase of deformation.

Faulting:
Topographic lineaments are abundant in the area, and many likely reflect faults or joints. Documented structures are rare, including small displacement normal and reverse faults. A major 150°N-trending schistose shear zone occupies the lower Unuk River valley, which to the north bifurcates or joins a major north-trending mylonite and cataclasite band underneath the Harrymel Creek valley and a major verticel fault under Coulter and Argillite Creeks on the Prout Plateau. Recent movement on the Harrymel structure is normal, however the zone is postulated to be an older, deep-seated major fault zone of unknown displacement.

Property Geology

The Eskay Creek Property is underlain by Lower to Middle Jurassic volcanic and sedimentary rocks of the Hazelton Group (Figure 8). Rock units are west-facing, striking 060°N/15-70.°W. Dips are steepest in the central and southern portion of the property, and become more shallow to the north. From oldest to youngest units, the stratigraphic section includes:

(1) Andesite flows, breccia and tuff with interbedded wacke and siltstone,
(2) Tuffaceous wacke, mudstone, and conglomerate,
(3) Dacite lapilli, crystal and lithic tuffs interbedded with black mudstone and waterlain tuff,
(4) Rhyolite lapilli tuff and breccia,
(5) Pillowed andesite flows and breccias with interbedded carbonaceous mudstone, and
(6) Medium to thin-bedded conglomerate, wacke and mudstone.

Well-preserved micro and macrofossils are locally abundant in most sedimentary units, providing relatively rigid stratigraphic control and indicating a predominately aubaqueous depositional environment. Units 1 to 3 are tentatively correlated to the Betty Creek Formation, unit 4 to the Mt. Dilworth and units 5 and 6 to the Salmon River and/or Ashman Formations. Stratigraphic assignment may change pending the results of additional government mapping planned for 1989.

The major structure on the property appears to be a shallow, northeast-plunging asymmetric anticline with a steep eastern

limb. The western limb is cut by the major Argillite Creek fault. The fold closes across the northernmost portion of the property at Mackay Creek, and it appears likely that favourable rhyolite geology may be preserved at depth north and east of the #23 showing area.

Penetrative cleavage is observed in sedimentary rocks and the upper portion of the rhyolite, striking 030/75-80°W. All other units are relatively undeformed. Metamorphic rank is sub-greenschist. A northeast-trending vertical fault of unknown displacement separates rocks of units 5 and 6 (Argillte Creek fault). A similar, parallel structure is postulated to underlie Eskay Creek upstream from the camp. Major and minor north and east-trending faults of unknown attitude and displacement have been mapped within units 3, 4 and 5. Numerous airphoto lineaments are shown on figure 3. Most are suspected to represent faults, though some may be joints. Plans by Whiting (1946) portray many short-length faults, some of which coincide with airphoto features. Descriptions of the Northend prospect report flat-lying, small-displacement faults occupied by barren quartz veins. These are reminiscent of minor structures reported at the Snip and Johnny Mountain Deposits to the west in the Bronson Creek area, and may reflect the presence of low-angle reverse faults and\or post-mineral extension fissures.

Future geological mapping programmes should evaluate the structural history of the property carefully, as a possible clue to mineralization control. North to northeast-trending listric faults appear to be important features found in close proximity to mineralization at the #21, #22 and #5 Zones. Their precise nature and role in either deposit formation or disruption is unknown. A second potentially important set of structural zones appear to control the distribution and thicknesses of various rock facies including the favourable rhyolite unit and over and underlying units. These structures may represent synvolcanic faults and scarps, or growth faults. Whiting's (1946) description of the geology of the Northend area alludes to such features, and current geological understanding of the #21 Zone geology may also support such an interpretation.

MINERALIZATION

Mineralization on the Eskay Creek property comprises:

1) Strata controlled and stratabound gold and silver plus antimony, arsenic and mercury associated with intense hydrothermal alteration (muscovite, Mg-chlorite, gypsum, and chalcedonic silica) at the contact of rhyolite breccia (unit 4) and overlying pillowed andesite flows (unit 5). Example: #21 Zone

2) Disseminated and fissure-vein type gold and silver plus zinc and lead with minor antimony and arsenic associated with variably intense muscovite and silica alteration within schistose rhyolite breccia (unit 4). Example: #22 Zone, original #21 Zone trenches, possibly #5 and #23 Zones.

3) Disseminated to massive sulphide type with low grade gold and silver plus heavy zinc, lead and iron sulphides associated with modest chlorite, muscovite and silica alteration within dacite tuff (unit 3). Example: Northend.

4) Disseminated geochemically anomalous gold and silver associated with iron sulphides in silicified dacite tuff (unit 3). Example: #3 Bluff

5) Low grade gold and silver plus minor lead, zinc and iron sulphides associated with chlorite and quartz within shears at the contact of intrusive feldspar porphyry and wacke (unit 2). Example: Porphyry Showing

Current Joint Venture exploration activity is concentrated upon development drilling of the type 1, #21 Zone gold - silver deposit.

Geology of the #21 Zone

The #21 Zone drill area is underlain by Hazelton Group units, oriented 060° to 070°N/25-50°W. The sequence is west-facing, homoclinal and relatively "layer-cake" in nature. Both stratigraphy and mineralization are predictable. The Zone has not been geologically mapped on surface, and interpretation is based upon drill results.

The drill area, situated upon a low ridge, in underlain by pillowed andesite flow rocks and intercalated mudstone (Hangwall Andesite Unit). Beneath the H/W Andesite Unit is a discontinuous formation of carbonaceous mudstone and mixed rhyolite-mudstone debris (Contact or Transition Zone), which overlay a thick unit of rhyolite breccia (Rhyolite Unit). The

Contact Zone does not outcrop on surface, the trace of which is usually marked by talus or deep overburden. The Rhyolite Unit outcrops at lower elevations, best exposures of which occur in the southern portion of the drill area, on sections 1+00S to 2+50S. This area is the location of extensive trenching, done by Premier in 1936, and drilling by Premier, Kerrisdale Resources, and Calpine Resources (CA88-02 to 04). Beneath the Rhyolite Unit is a complex sequence of mudstone, wacke, dacite tuff, ash flow and lithic tuff, plus rare conglomorate (Datum Units). The Datum Units likely do not project to surface in the drill area.

Simplified geological interpretations, based on drill results, are shown on figures SK21-1 to 15 inclusive (Appendix IV). Rock units are correlated with reasonable certainty, however cross-cutting fault structures are omitted due to uncertainties in orientation and hole-to-hole or sections-to-section correlation. An important structural zone, with the interim designation as the 030 Fault, appears to cut-off mineralization to the northwest. The 030 Fault is enigmatic, in as much as it appears to dislocate the Datum Unit contacts, approximates a dramatic thickening in the Rhyolite Unit, terminates the downdip extent of the Contact Zone, yet displaces the basal contact of the Hanging Wall Andesite Unit only slightly. Its trace is marked by numerous latite and felsite dykes, brecciation, and alteration (silica-clay). It is not mineralized.

Stratigraphy

Major rock units inolude (from hangingwall to footwall):

HANGINGWALL ANDESITE UNIT:

Hangingwall geology is a flow and sill complex of andesite (or basaltic andesite) composition. Units tend to be fine-grained and buff-green coloured in pillowed flow, flow breccia stratigraphy, or sub-porphyritic, dark green and massive in probable sills. Palagonite ash (hyalloclastite) horizons constitute local markers. Intercalated mudstone units are black, pyritic and discontinuous. Numerous "crystallites" occur in some mudstone bands, comprising glomeroblastic calcite-plagioclase bodies from 0.2 to 0.8 cm in diameter.

The Hangingwall Andesite unit changes in nature in the vicinity of the deposit. Southwest of 2+00S the unit is characterized by a paucity of interflow sediments and debris, and is generally massive and non-descript. In the immediate deposit area, the unit is characterized by abundant hyalloclastic debris, both pillowed and massive flows, and rapidly pinching and thickening mudstone intervals. To the northeast, mudstone intervals become increasingly frequent, constituting as much as 45% of the cored hangingwall interval. These "facies" transitions correspond both to crossing the 030 fault and passing "over top" of the most

intensely altered and mineralized portion of the #21 Zone. Insufficient work has been done to determine both the validity of these observations or their impact on a geological model. If correct, they would strongly support the presence of a synvolcanic fault, coincident with the mineralized zone, the trace of which is now marked by the mysterious 030 fault.

Pillow and pillow breccia units are frequently cemented by grey calcite or black chert. Locally heavy matrix impregnations of kerogen (pyrobitumen), pyrrhotite, and white, sparry calcite occur. Amygdules are filled by dark green chlorite, quartz, calcite or pyrite.

The hangingwall units appear to be relatively undeformed and not metamorphosed. Weak cleavage is erratically developed in some mudstone beds. Pronounced bleaching and weak silicification has frequently been encountered in the basal 1.0 to 1.5 meter portion above mineralized Contact Zone rocks.

South and west of the 030 fault, hangingwall units appear to be extensively chlorite-epidote altered. Numerous thick and thin felsite and latite dykes are present, frequently occupying fault zones.

CONTACT ZONE:

This unit represents the target ore horizon. The Contact Zone is up to 28 m thick. It is absent northwest of the 030 Fault. Maximum thicknesses are between sections 0+50S and 1+50N. It comprises highly carbonaceous mudstone overlying a rhyolite-mudstone debris breccia. In general the upper mudstone is more extensive than the breccia. The upper mudstone is a thin to medium bedded, medium to finely laminated mudstone that is carbonaceous and has tuffaceous, chert and pyritic laminae. Disseminated needles of arsenopyrite appear to be common in the undeformed areas of the unit.

In thin section, mudstone samples are seen to comprise fine-grained chert, tuff fragments, rare limestone clasts, mixed Mg-Fe chlorite, barite, quartz and sulphide minerals with rare microfossils, possibly radiolarians. All sections are overprinted with a dense, dark hydrocarbon material.

The lower subunit of this interval is a debris breccia (Transition Zone) containing rhyolite and mudstone blocks and chips "floating" in a black, carbonaceous matrix. The breccia is matrix supported, "swirled" in appearance and variably pyritic. Stibnite and arsenopyrite crystals have been noted in both matrix and rock fragments.

In thin section, this unit is seen to comprise a myriad of clast sizes and compositions, including chert, rhyolite, clay "balls",

mineralized fragments, broken pyrite, arsenopyrite and stibnite crystals. The unit is moderately to highly foliated, with pressure shadows, rotated grains and schistose to random and dense interlooking mats of Mg-chlorite and muscovite. This unit has a high hydrocarbon and graphite content.

In general the mudstone unit is progressively deformed and schistose towards the base with considerable graphite on slickenside and foliation surfaces.

In terms of gross stratigraphy and depositional environment, the Contact Zone represents a transition from the rhyolite into the andesite units. The upper, well-bedded mudstones are sedimentalogically indistinguishable from interflow mudstones upsection. It is possible that the lower debris breccias are a "basal conglomerate" unit to the Hangingwall Unit. The Contact Zone represents a cataclysmic incursion of anoxic marine sediments into a floundering, rifted rhyolite pile. This incursion is coincident with a shift in magma composition from felsic to intermediate compositions.

RHYOLITE BRECCIA:

This unit comprises grey to white breccia, lapilli-breccia, tuff and subordinate massive rhyolite. The Rhyolite Breccia is up to 210 m thick northwest of the 030 Fault, thinning north and east to 60 to 150 m thickness. It is not known whether thicknesses are exaggerated due to faulting. Greatest Contact Zone thickness appears to correspond with minimum rhyolite thickness, suggesting fair relief on the rhyolite subsurface and local basinal development. The term rhyolite is used as a logging term, as there is no supporting whole rock geochemical analyses or mineralogy (i.e. quartz eyes). Fragments are massive to flow-banded to tuffaceous. Matrix is tuffaceous. Rocks can appear massive to schistose and are variably silicified and sericitic. Alteration effects are most dramatic on matrix, however clasts can be so highly altered as to be obliterated. The base of the rhyolite is frequently massive, aphanitic and weakly autobrecciated.

In thin section rhyolite rocks are seen to be composed of muscovite and quartz. No ferromagnesian minerals have been identified, nor have feldspar or quartz phenocrysts. Based on thin section observations, the rhyolite is distinct mineralogically and chemically, and so monotonous to suggest that it is not the alteration product of a pre-existing andesite (or whatever), nor is an intrusive origin supported.

The absence of internal layering, sediment bands, hyalloclastite units etc. is peculiar to this unit. The rhyolite unit thus appears to represent a large "lump", a eonstruction volcanic

feature of large proportions, perhaps an exogenous dome breccia or column collapse breccia. Though units above and below the rhyolite contain rock textures and fossils supporting a subaqueous depositional environment, the possibility exists that the rhyolite itself was at least in part emergent above wave base.

To the north and east the upper 5 to 15 meters of the rhyolite changes to a rhyolite / mudstone rhythmite, containing decimetre scale, finely laminated mudstone with interbedded rhyolite ash, lapilli and isolated breccia blocks.

DATUM UNITS:

Footwall to the rhyolite is an unknown thickness of relatively continuous mudstone, wacke and tuff. Graphitic mudstone is medium to thick bedded, medium to finely laminated, tuffaceous and pyritic. Beneath this unit is a relatively continuous sequence of feldspar-phyric dacite (trachyte) tuff, lapilli-tuff and ash-flow tuff. Highly vesiculated units overlie variably sulphitic lapilli tuff and constitute an important and readily recognizable marker. Lithic tuff and ash-flow tuff occurs within this sequence. Clasts include dacite, rhyolite and mudstone, are angular, unsorted and matrix supported. Matrix material is unsorted tuff. Flattened pumice(?) and shards are evident in some holes. Beneath this unit is another mudstone, which is dark green to black, not particularly carbonaceous, is medium to thick bedded, coarse to medium laminated and highly tuffaceous. Much of this material logged as "argillite" is likely to be chloritic waterlain tuff.

Mineralization and Alteration

Gold and silver mineralization occurs as a stratabound sheet with a pronounced keel, traced by drilling over a continuous strike length of 450 meters, down dip to a depth of 300 meters, with a maximum thickness of approximately 50 meters. To the south mineralization appears to be cut-off by an 030°N/40-75°E dipping normal fault (section 2+00S). To the north (section 1+00N) the zone passes into a 100 to 150 meter long, 2.5 to 8 meter thick "low grade" area (0.06 to 0.09 ounce per ton Au), with the northernmost drill panel (2+50N) indicating a resumption of mineralization (c.f. CA89-67: 0.217 ounce per ton gold and 3.27 ounces per ton silver over core length of 18 meters).

Mineralization is hosted within variably sheared and schistose graphitic mudstone, carbonaceous debris breccia (transition zone), and rhyolite breccia. The hangingwall cut-off generally coincides with the upper contact of the "Contact Zone" argillites and the overlying Hangingwall Andesite Unit. Highest grades are often encountered where Contact Zone breccia is thickest and both this unit and immediately underlying rhyolite breccia possess a highly developed muscovite fabric. Footwall mineralization boundaries cannot be defined by rock contacts, and the mineralized dimensions can be increased both in thickness and down dip extent dependent upon ultimate assay cut-offs. Footwall mineralization boundaries generally correspond to a pronounced decrease in both intensity of alteration and sulphide mineral content.

The mineralized lode can be subdivided based upon metal and alteration associations, host rocks and location within the mineralized body:

The upper portion, hosted by Contact Zone breccias, is characterized by high gold and silver (frequently greater than 0.5 ounce per ton Au) in association with massive to semi-massive stibnite, realgar and orpiment between sections 1+00S and 0+50N, passing laterally along strike and down dip into less massive domains where sulphides occur in veinlets, as feathery massive lumps and heavy impregnations along shears or in mudstone matrix. Metallic mineral assemblages include:

Stibnite	Sb_2S_3	Realgar	AsS
Gold	Au	Amalgam	Hg-Ag-(Au)
Aktashite	$Cu_6Hg_3As_5S_{12}$	Pyrite	FeS_2
Arsenic	As	Orpiment	As_2S_3
Hg-Wurtzite	(Zn,Hg) S	Galena	PbS
Cinnabar	HgS	Arsenopyrite	FeAsS
		Sphalerite	ZnS
Tetrahedrite	$(Cu,Ag,Fe)_{12}$	$(Sb,As)_4$	S_{13}
Tennantite	$(Cu,Ag,Fe)_{12}$	$(Sb,As)_4$	S_{13}
Freibergite	$(Cu,Fe,Zn,Ag)_{12}$	$(Sb,As)_4$	S_{13}

Gold reports to gold, amalgam and wurtzite. Silver reports to amalgam, tetrahedrite and related species, gold and a not yet named Ag-Pb-As-S species.

Alteration associations include:

Mg-chlorite	Barite	Ba-muscovite	Calcite
Quartz	Carbon		

Assemblage textures are paradoxical. All thin sections display zones of schistosity, pressure shadows, grain rotation and dismemberment, yet also contain euhedral, delicately interlocking zones of quartz, calcite, mica, chlorite and sulphide grains. Textures can at best be interpreted as suggesting periods of open space growth, followed by shearing; a repetitive process of brecciation and dynamic shearing.

The lower portion is hosted within moderately to highly schistose Rhyolite Breccia, and is characterized by moderate to low tenor gold (0.5 to 0.04 ounce per ton) and locally high silver in association with disseminated to microfracture-filling base metal sulphides and minor to trace antimony, arsenic and mercury minerals. This type of mineralization forms a tabular sheet across the mineralized body, with a keel-like thickening between sections 1+25S and 0+50N. The lower portion of the keel contains an alteration assembladge of Mg-chlorite (with high fluorine), gypsum, minor barite, and celestite. This passes vertically into a barian muscovite and quartz dominated assembladge.

Metallic minerals and alteration assemblages are similar to the upper portion, except that realgar and orpiment are rare to non-existent, with tetrahedrite species, sphalerite, galena, wurtzite and aktashite being the dominant sulphide minerals, and carbon and graphite being absent.

In the schistose upper portion of the rhyolite, gold-silver mineralization occurs as films on cleavage surfaces or as tight knots and veinlets subparallel to schistosity. As schistosity intensity decreases with depth, mineralization increasingly occurs as veinlets and fracture-fillings in microbreccia zones. An overall impression is that mineralization hoeted within schistose zones may be correlated from section to section assuming gross conformity to stratigraphy, however deeper non-schistose intervals may lie within subvertical fracture zones, thus making section to section correlations suspect.

The entire #21 Zone mineralized system is regarded as a continuum. The essential difference between the upper and lower portions is a dramatic upward increase in the abundance of stibnite, realgar, orpiment, mercury minerals, gold and silver, plus the abundance of carbon. It is probably no coincidence that the best mineralization within the zone is located where a vertical, crosscutting hydrothermal system encounters reduced

conditions at the top of the rhyolite pile. The locally high degree of shear fabric development suggests that the mineralizing event in part accompanied a phase of local deformation. The apparent lack of deformation and alteration in the Hangwall Andesite Unit would suggest that either mineralization and deformation preceeded Andesite Unit deposition or this unit is an allochthonous slab that has slid or been thrust into its current location.

Semi-massive to disseminated low grade gold (< 0.1 ounce per ton) and silver (< 2.0 ounces per ton) mineralization is frequently encountered within the Datum unit vesiculated dacite and lithic tuff. Mineralization comprises crystalline pyrite, sphalerite, tetrahedrite, galena and chalcopyrite in a pink to buff coloured, feldspathized rock traversed by a visually striking array of chlorite and pyrite filled fractures. The ultimate economic potential of this zone, suspected to correlate with the #5 O.C. is not known.

STRUCTURE

Insufficient attempts at detailed correlations have been done to satisfactorly establish a structural understanding of the #21 Zone.

It appears that a sharp bedding discontinuity occurs between the Hangingwall Andesite and the Contact Zone mudstone and breccias or with Rhyolite. Rarely are these contacts preserved in core. Cross-section examination would suggest a slight discordance of attitudes between each unit. As such, a preliminary interpretation of this contact is that it represents a local (?) unconformity. A second discontinuity occurs between the footwall mudstone / dacite units and overlying rhyolites. Again this contact is poorly preserved in drill core, however gouge or high fabric rock is often present at the base of the rhyolite, suggesting a low-angle fault.

Numerous other low angle to bedding-parallel faults or shears are suspected, but have yet to be firmly established. These may be particularly important between sections 1+50S and 0+25N (the portion of the mineralized zone with the greatest grade/width intersections). Small displacement normal faults may also occur, however if they do exist, are subparallel to the 150°N sections and are therefore not consistently intersected to conclusively establish their existence.

A major fault (030 Fault) trending 030° to 050°N passes west of collar site CA89-25, 27, & 28 and CA89- 64, 65, 66, &70. The fault flattens at depth, changing from 75° to 40° east. The sense of displacement appears to be normal, west side up. The 030 Fault may cut-off the #21 Zone at depth.

Other Zones

NORTHEND SHOWING, OR MACKAY ADIT

Mineralization comprises moderate to high grade, shear and vein-hosted gold-silver mineralization, exposed over a strike length of 550 feet and across widths up to 120 feet. The rock host is a silicified tuff, over and underlain by highly sheared argillite. The prospect has been previously evaluated by trenching, diamond drilling and a 360 foot adit (which failed to reach its objective). Data review suggests the following:

1) Three principal mineralized lenses occur (Premier data):
   "X" - 127 feet long by 11 feet wide
   - 0.27 opt Au and 1.25 opt Ag
   "Y" - 75 feet long by 16 feet wide
   - 0.18 opt Au and 1.41 opt Ag
   "Z" - 111 feet long by 26 feet wide
   - 0.22 opt Au and 0.50 opt Ag

2) Eight additional lenses appear to be present, with grades greater than 0.1 opt Au and widths over 2 feet.

3) Host units strike 050°N. Shear and vein orientations strike 100°N. It appears likely that mineralization is hosted within extension veins, localized in the "brittle" silicified tuff, bounded by major shears in the argillites.

4) Several barren quartz veins, occuring in "flat fault" structures are reported. Possibility of vein off-sets across these structures was not taken into consideration in previous exploration programmes.

5) Previously drilled holes cut oblique to apparent mineralized trends, targeted on stratigraphy, not structure.

6) An open pit reserve target may be present, with little stripping, developing 0.5 to 1.0 million tons of low grade gold-silver mineralization that could be metallurgically simple.

A program of detailed geological mapping, aimed at testing the concept of structural ore control, is recommended. This should be followed by a diamond drill program totalling 1,000 meters in eight holes.

#22 ZONE OR EMMA ADIT AREA

This area includes the #22, #6 and #28 areas. These prospects have received the bulk of the previous exploration activity on the property. This includes extensive trenching, short-hole diamond drilling and underground exploration in 1946-1947 and

ADDITIONAL AREAS OF INTEREST

The area from the MacKay Adit north to the #1 Bluff includes the #4, #7, and #10 Zones. These represent low grade gold-silver mineralization in lower footwall tuff units. This area has not been previously examined by the Joint Venture, and has received little attention by previous operators. Geological mapping, prospecting and soil sampling is recommended.

The Porphyry Zone lies east of the #5 to #23 Zones. The area has not been examined since the original Premier days. Low grade gold is reported associated with base metals at an argillite-feldspar-porphyry contact. Geological mapping and soil sampling is recommended.

The #4 and #5 Bluff areas have received no work since the Premier days. Several isolated gold showings are reported, as is an antimony mineral occurrence. Prospecting and reconnaissance geological mapping is recommended.

A complete review of other gold and silver prospects at Eskay Creek is contained in a separate report by Blackwell (1989).

GEOCHEMISTRY

An 18.15 line-kilometre grid was established by compass-topochain-flagging in the central part of the property between the Emma Adit and the #21 Zone (Figure 10) covering the claims TOK 1 and TOK 2, TOK 7, and TOK 8, and KAY 11 to 18 inclusive.

Analytical procedures are shown in Appendix V and the results tabulated and shown under separate cover (ref. Appendix V).

Soil Geochemical Survey

A total of 867 soil samples were collected at 25 metre intervals along lines spaced 100 metres apart. In the vicinity of the #21 and #22 Zones, 226 samples were collected along lines 25 m apart.

Samples were collected with a grubhoe from the "B" horizon. In several instances, however, it was only possible to collect talus "fines" on the steeper slopes or organic-rich material from the valley floor. Field notes were made detailing soil type, colour, texture, and sample depth. Samples were eir-dried in camp prior to shipment in sealed boxes or plastic pails to Bondar-Clegg and Company Ltd. in North Vancouver for analysis. Results were obtained on the -80 mesh fraction by the methods described below:

Au:	Fire Assay - Atomic Absorption
Ag,Pb,Zn:	HNO_3-CHL extraction - Atomic Absorption

In order to determine the distribution of other elements, 99 samples from the vicinity of the #21 Zone were analyzed by "31 element" ICP.

The Au, Ag, Pb, Zn, As, and Sb results are plotted on Figures 11 to 16 inclusive. Soil geochemistry has been found to be a very effective exploration technique for locating and outlining mineralization on the Eskay Creek Property. In many areas, a well developed soil profile is present, but several areas only exhibit talus "fines" or organic-rich material. It is possible that some of the anomalies have a transported component as they are coincident with drainage features. A few of the anomalous samples may be related to dispersion from adits or dumps developed during previous exploration programs. Glacial features (i.e. striae) and variable sample media indicate that the property should be subjected to a surficial geology/geochemical study in order to maximize the effectiveness of the soil geochemical program.

Anomalous responses for each of the plotted elements (Au, Ag, Pb, Zn, As, Sb) are associated with several of the known mineralized zones as well as a number of untested areas. The gold results provide the most obvious discrete anomalies. These are shown on Figure 12 and are summarized below.

Anomaly #	Highest Value Gold (ppb)	Estimated Average Gold (ppb)	Description
1	1,775	150	Ponds and drainage downslope from Emma Adit
2	2,025	175	#22 Zone workings
3	4,130	700	Talus apron of #3 Bluff
4	3,300	1,000	Altered and sheared system in southern part of grid
5	2,900	300	Talus apron of #4 Bluff
6	1,186	150	#5 and #23 Zone workings
7	4,490	800	#21 Zone workings

Rock Geochemical Survey

A total of 200 rock samples were collected during the prospecting and geological mapping phases of the 1988 exploration program. These samples comprises 127 grab samples, 37 continuous chip samples from cliff faces and 34 continuous chip samples from surface outcrops. The sample locations are shown on Figure 17 together with the gold results.

GEOPHYSICS

A helicopterborne geophysical survey (magnetometer, resistivity, electromagnetics, and VLF-EM) was carried out between March 20 and April 16, 1989 by Aerodat Limited of Toronto. Flight lines were flown at a spacing of 100 meters in an northwest-southeast direction. Approximately 50% of the area was flown utilizing a Falcon Mini-Ranger IV radar navigation system for navigating and flight path recovery. Instrumentation included an Aerodat four-frequency electromagnetic system consisting of two vertical coaxial coil pairs operating at 935 and 4600 Hz and two horizontal coplanar pairs operating at 4175 and 33 Hz, a cesium magnetometer and VLF-EM units.

An evaluation of the airborne data (1:10,000) was made by Zbynek Dvorak, Urquhart Dvorak Limited of Toronto. A preliminary compilation of his interpretations are shown in Figure 18.

METALLURGY

Preliminary metallurgical test work, under the guidance of Mr. C. Overton, Bethlehem Resources Corp., is continuing at Lakefield Research, Lakefield, Ontario.

RESERVES

A grade and tonnage calculation for the #21 Zone has been contracted to Roscoe Postle Associates, Inc. of Toronto. Their report is expected by approximately mid month July.

Specific gravity measurements were made on 113 core reject samples to determine:

1) variability throughout the various mineralized-type zones, and

2) an average S.G. for tonnage calculations.

The core was chosen so as to determine S.G. for the various mineralized sections and for any variability from hole to hole:

CA89-54	sheared sericitic unit, trace stibnite;
CA89-28	semi-massive stibnite, arsenopyrite, trace realgar;
CA89-23	sheared unit; semi-massive realgar + stibnite (156.0-169.8 m 20-25% pyrite);
CA88-17	minor amounts of stibnite and realgar.

The S.G. ranges from 2.7 to 3.5, with an arithmetic average of 2.8. The values ranged as follows:

2.7	n = 55	(48.7%)
2.8	n = 36	(31.9%)
2.9	n = 10	(8.8%)
3.0	n = 12	(10.6%)
	n = 113	

The higher values (>3.0) occur in sections with massive to semi-massive sulphides. There appears to be no variability from hole to hole. The specific results and procedure are tabulated and shown in Appendix VI.

The VLF-EM data is of poor quality and data is considered to be non-interpretable. This is believed to be caused by varying flying altitude and loss (no recording) of the electromagnetic signal.

Apparent resistivity data indicate virtually no definitive contrasts or anomalies. No distinct EM or resistivity anomaly is associated with the #21 Zone.

The aeromagnetic data, total field and calculated vertical gradient, delineated several anomalous features within the property. Three main orientations of inferred breaks are identified: north-south, east-west and northwest-southeast. The general regional structural trend indicated by the aeromagnetic data is southwest-northeast. The #21 Zone does appear to be associated with a northeasterly trending, moderate to strong broken trend of magnetic anomalies, approximately 2,000 metres in length. This trend of anomalies ties in the mineralization of the #21, #6, #22, and #28 zones together. It may be caused by disseminated pyrhotite found in hanging wall andesite, as noted in the #21 Zone above the gold-silver mineralization.

Shadow enhanced total field magnetic data from two illumination directions (northwest and northeast) indicate northeasterly trending anomalies on strike with the #21 Zone continuing past the northend boundary of the property.

RECOMMENDATIONS

Recommendations for continued exploration and development at Eskay Creek reflect two objectives:

A. A programme of detailed exploration and development on the #21 Zone to take the project to a feasibility study stage. The reserve on the Zone is to be drilled in sufficient detail to permit a "drill indicated" reserve calculation to be made. Engineering, metallurgical and environmental programmes to be undertaken coincident with continued surface development drilling.

B. A programme of property-wide surface exploration to assess the gold and silver potential of other zones outside the currently defined #21 block.

Specific recommendations for #21 Zone exploration and development include:

1. Preparation of e detailed geologioal map of the Zone, at a scale of 1:500 or 1:1000.

2. Preparation of an accurate site plan, incorporating surveyed drill collar locations and topography (elevation contours, ponds and streams).

3. In-fill diamond drilling of that segment of the zone with greatest grade/width potential, lying between section 1+37S and 1+00N. Drill penetrations to fall on 25 meter centres.

4. Step-out drill fences northeast of section 2+50N, following the established trend of mineralization supported by holes CA89-67 and 69.

5. Supported by surface mapping, step-out fences southwest of section 2+40S.

6. Implementation of core recovery and RQD (rock quality designation) calculation and recording. Other geotechnical work to be recommended by consulting engineers. The integrity of the core obtained during in-fill drilling should be preserved through sawing. This will enable subsequent engineering study, and will reduce the requirement for duplicate holes drilled solely for engineering purposes.

7. All geological and geotechnical data to be recorded in Geolog format, as per established format.

8. All major cored intercepts from previous and new drill campaigns should be assayed for Sb, As, Hg, Zn and Pb, as well as Au and Ag. Precious metal grades should be recorded as grammes per metric tonne.

9. A detailed cut grid should be surveyed over the zone. The grid should be utilized for test I.P. (induced polarization) surveys, and should receive blanket VLF-EM and magnetometer geophysical coverage.

10. Environmental baseline studies should be initiated and maintained in an on-going fashion. These should include surface water monitoring (trace metal fluctuations, acidity, measured flow), wildlife resource inventories and multiple user status, and potential material management of both exploration and mine effluents and by-products. The project management should consider both a programme of public awareness information policies, identification of potential detrimental mining by-products (trace metal toxicity, acid water discharge, wilderness impact etc.), and identification and background examination of the various individual and "public interest" groups which may either lay "claim" to the area or wish to become involved in the mine permitting procedure.

11. Site engineering studies should be undertaken. This includes a terrain evaluation for minesite facilities, identification of potential tailing disposal sites, a construction aggregate inventory, preliminary road and airstrip engineering assessment, an overview geotechnical assessment, and a preliminary mining scheme and flow sheet analysis. Road links to the proposed Iskut River road and the Stewart-Cassiar highway should be evaluated. It is important that no portion of the property be relinquished to development programmes without prior consultation with exploration staff.

12. A site should be chosen whereby the mineralization may be exposed by "cat" trenching and washing, the site carefully mapped, followed by recovery of a minimum 5 ton bulk sample. The bulk sample should be used for an advanced metallurgical study and pilot treatment to establish a preliminary milling and recovery scheme.

Specific recommendations for property-wide exploration include:

1. Establishment of claim post locations and completion of a legal survey of the property.

2. A cut grid should be established over the property, with detailed (50 meter) crosslines over specific areas, including the Northend, #28, #6, #22, #21, #5, #23 and #4-#5 Bluff areas.

3. Geological mapping of the entire property at a scale of 1:5000.

4. Detailed geological mapping at 1:1000 of the #28, #6, #22, #5, and #23 Zones

5. Blanket soil geochemical sampling of the grid area at a minimum of 100 by 25 meter centres, tightened in the vicinity of favourable showings or geology.

6. Examination and re-sampling of all outstanding, unexplained soil and silt anomalies from previous programmes.

7. Blanket stream sediment geochemical sampling coverage of the entire property, with emphasis upon the northern half.

8. Blanket grid geophysical coverage, employing two frequency VLF-EM and magnetometer, with discretional I.P. test profiles over selective favourable areas.

9. Ground examination of all airborne geophysical anomalies, through prospecting and geological mapping.

10. The favourable contact between the footwall rhyolite and the hangingwall andesite should be carefully walked-out, prospected and sampled.

11. A rock geochemical orientation survey should be undertaken over the #21 Zone, to be followed by new work along both the andesite-rhyolite contact and known showings. Rock geochemistry should examine the use of pathfinder elements in addition to gold, silver, lead and zinc. These include Ba, F, Hg, Sb, and As. Whole rock analyses, examining alkali metals and LOI (loss on ignition) should also be considered. Careful attention should be paid to the analytical procedure employed.

12. A qualified geochemist/Pleistocene consultant should advise the exploration staff of the suitability of soil sampling mediums on the property, effects and nature of glacial dispersion, and prepare a preliminary surficial geology map noting the occurrence and distribution of till, moraine, glaciofluvial outwash and gravel deposits at Eskay Creek.

13. Areas of favourable geology, mineralization, geochemistry or geophysics should be rapidly and systematically evaluated by diamond drilling on a "fast-track" priority basis. A small, helicopter-portable drill such as the F1000 should be contracted for this work.

A two phase budget, totalling $7,000,000 is recommended. Phase I work ($4,000,000) is to include 4,500 meters of 25 meter centre

in-fill drilling, 7,000 meters of step-out fences along strike of the #21 Zone, 2,000 meters of "scout" drilling on new targets, geophysical, geochemical and geological coverage, bulk sampling and metallurgy, environmental and engineering studies, aerophotographic coverage of both the property and proposed road links, camp expansion and upgrading, and related contingencies (10%). Phase II work ($3,000,000) is to include advanced definition development drilling, engineering, metallurgy, reserve calculations and pre-feasibility assessment.

Inherent to these recommendations and proposed expenditures is the consideration that upon completion of these programmes, the Eskay Creek Project will be taken to a feasibility level with a drill indicated reserve base for the #21 Zone, that the entire property will have undergone technical assessment for additional reserve potential, that specific portions of the property can then be detail diamond drilled and evaluated on a priority basis, and that major engineering, metallurgical and environmental aspects relating to future development will be assessed, problems identified and future courses-of-action recommended.

CONCLUSIONS

The Eskay Creek Property is underlain by Lower to Middle Jurassic volcanic and sedimentary rocks of the Hazelton and Bowser Groups. The major structure on the property appears to be a shallow northeast plunging asymmetric anticline. The western fold limb is cut by the Argillite Creek Fault.

The Eskay Creek Property is characterized by highly altered and gossanous Hazelton rhyolitic units which host several gold-silver and minor base metal occurrences. The current focus of attention and work has been on the #21 Zone.

Gold mineralization in the #21 Zone is hosted within both rhyolite breccia, and graphitic mudstone formations, beneath barren andesite flows. Mineralization occurs as a strata-controlled sheet, traced by drilling over a continuous strike length of 450 meters, down dip to a depth of 300 meters, and with a maximum thickness of 50 meters. The upper portion of the zone comprises of massive to semi-massive stibnite and realgar containing a variety of gold, silver, mercury and arsenic-bearing mineral species. The upper portion is hosted within Contact Zone breccia and mudstone. Gold tenor is highest in association with the stibnite and realgar. The lower portion of the zone is hosted within highly altered and variably schistose rhyolite breccia. Mineralization includes a more base metal-dominated assembladge of pyrite, sphalerite and galena, plus diminished amounts of all species present in the upper portion. Rhyolite breccia units below the zone which is pervasively sericite-altered are variably siliceous and sericitic, and host disseminated and stockwork pyritic sphalerite-tetrahedrite mineralization with elevated to locally high grade gold and silver contents. This latter type of mineralization may ultimately prove to be of economic importance, however it is not the object of current reserve definition.

Wall rock alteration and zonation is variable throughout the #21 Zone. Silicification is apparent in the Contact Zone by pervasive "chert" and ranges sporadically from weak to strong. There is also considerable hydrocarbon residue and lesser amounts of calcite, chlorite and muscovite. The major footwall alteration feature defined to-date is a barium-rich muscovite, accompanied by lesser amounts of Mg-chlorite and gypsum. There appears to be a strong direct correlation between the barium content of muscovite and gold. The presence of anomalous fluorine in chlorite suggests a possibility of an igneous source (Porphyry Showing ?) associated with the hydrothermal system.

The new discovery at the #21 Zone is located beneath a low ridge, and the mineralized body currently being defined is relatively conformable to the shape of the hill. In general, it is a gently west-dipping sheet, and is open to the north and locally at

depth. To the south, the mineralized zone appears to be cut off by a cross-fault, however it is possible that mineralization may resume at depth and to the west. The relative displacement across this structure is an important geological problem to be addressed during the 1989 summer field programme, as is its precise nature and role in both controlling mineralization and affecting the distribution and facies of rock units nearby.

The possibility of discovering a second significant gold deposit similar or better than the #21 Zone is excellent. Continued definition drilling within the currently outlined #21 Zone is required, and may result in an enhanced reserve base. A second zone of equal or greater size will significantly impact upon property economics. New reserve potential may exist north or south of the #21 Discovery and thus be identified by continued step-out drill fences, or may exist within the higher priority areas identified in this report.

The Joint Venture should undertake and establish as a priority a programme of rational, cost-effective exploration directed at assessing the additional potential and discovering new zones. A property-wide programme of geological mapping, prospecting, ground geophysical and soil geochemical surveys, stream and rock geochemistry, and diamond drilling is proposed.

Continued exploration and development is required on the #21 Zone. That portion of the zone between sections 1+37S and 1+00N should be drill tested to 25 meter centers. This will enable the reserve base to move to a "drill indicated" stetus, permitting a next step of feasibility studies. Coincident programmes of advanced geotechnical evaluation of the zone is required, as are initiation of a programme of environmental baseline study, terrain engineering for site planning, road and airstrip construction, and aggregate supplies. The mineralized zone should be partially stripped, mapped in detail, and a 5 ton bulk sample obtained for metallurgical study and pilot treatment.

In conclusion, the Eskay Creek Gold project has been highly successful at identifying and defining a potentially major gold-silver deposit at the #21 Zone. The deposit and property geology have all the "earmarks" of World Class potential. Continued reserve definition on the #21 should enable the project to move to a million ounce status. The probability of finding additional reserves in new zones, or as extensions of the known zone, are excellsnt.

Appendix I

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Appendix II

CONTRACTOR SERVICES

CONTRACTOR	
Aerodat Limited **3883 Nashua Drive** **Mississauga, Ontario** **L4V 1R3**	**Airborne Geophysical Survey**
Central Mountain Air Ltd. **P.O. Box 998** **Smithers, British Columbia** **V0J 2N0**	**Transportation - Fixed Wing**
Falcon Drilling 1901 Olgilvie Street Prince George, British Columbia	Drilling
Jaycox Industries P.O. Box 3633 Smithers, British Columbia V0J 2N0	Expediting
Jempland Construction 1901 Olgilvie Street Prince George, British Columbia	Camp Construction
Keewatin Engineering Inc. 800-900 West Hastings Street Vancouver, British Columbia V6C 1E5	Field Operations Management
Northern Mountain Air Ltd. P.O. Box 368 Prince George, British Columbia V2L 4S2	Transportation - Helicopter
Mark McGladry #1-1370 Main Street North Vancouver, British Columbia V7J 1C6	Land Surveyor

FIELD PERSONNEL (Keewatin)

Ron Fenlon	Project Geologist
Jerry McArthur	Geologist
Christine Swanson	Geologist
Frank Ferguson	Surveyor
Dave Mehner	Relief Geologist
Tim Termunde	Relief Geologist
Mark Kelley	Labourer
Andrew Patrick	Labourer
Ken Hunter	Labourer
Blaine Stewart	Labourer
Dave Tome	Labourer
Grant Nagy	Labourer
Elizabeth Aubrey	Head Cook
Jane Moir	Assistant Cook/First Aid Attendant
Glen Bedlaw	Labourer
Greg Sinitsin	Labourer
Kurt Kauss	Labourer
Steve Anderson	Labourer
Bonnie Whelan	Drafting office

(Other)

Ian McCartney	Geolog Consultant
Dave Novak	Geolog Consultant
Jerry Blackwell	Consultant
Bruce Downing	Senior Geologist (Prime Explorations)
Chet Idziszek	Overall Project Manger (Prime Explorations)

Appendix III

CERTIFICATE OF QUALIFICATIONS

I, Jerry D. Blackwell, of Lions Bay, British Columbia, hereby certify:

1. I am a consulting geologist with a business address at 253 Stewart Road, Lions Bay, British Columbia, V0N 2E0.

2. I am a graduate of the University of Western Ontario, with an Honours BSc (1974).

3. I have practised my profession in mineral exploration continuously for the past 15 years.

4. I have base this report on the Eskay Creek Property upon a thorough review of the results of the 1988/1989 field program, reports by various companies which previously held mineral claims in the area, and two visits to the property in February and April, 1989.

J.D. Blackwell
Consulting Geologist

DATED at Vancouver, British Columbia, this 6 th day of ... , 1989.

Appendix III

CERTIFICATE OF QUALIFICATIONS

I, Bruce W. Downing, of 1000-808 West Hastings Street, Vancouver, British Columbia hereby certify:

1. I am a graduate of Queen's University (1970) and the University of Toronto (1974), hold an Honours BSc and MSc degree respectively in geology.

2. I have been employed in my profession by various mining companies since graduation.

3. I am presently employed as a senior geologist with Prime Explorations Ltd. of 1000-808 West Hastings Street, Vancouver, British Columbia.

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

Bruce W. Downing
Senior Geologist

DATED at Vancouver, British Columbia, this 29th day of June, 1989.

CERTIFICATE OF QUALIFICATIONS

I, Gerald F. McArthur of Delta, British Columbia hereby certifiy:

1. I am a geologist with a business address at 11135 Monroe Drive, Delta, British Columbia, V4C 7T2.

2. I am a graduate of the University of British Columbia with a BSc geology (1973).

3. I have practised my profession in mineral exploration since graduation.

4. I am a Fellow of the Geological Association of Canada and a Professional Geologist registered in the Province of Alberta.

Gerald F. McArthur
Geologist

DATED at Vancouver, British Columbia, this [illegible] th day of [illegible], 1989

CERTIFICATE OF QUALIFICATIONS

I, Ron Fenlon, of 304 Van Horne Street, Thunder Bay, Ontario, hereby certify:

1. I am a graduate of Lakehead University (1986) and hold as BSc degree in geology.

2. I am presently employed as a project geologist with Keewatin Engineering Inc. of 800-900 West Hastings Street, Vancouver, British Columbia.

3. I have been employed as a geolegist continuously by various mining companies since graduation.

4. The information I have contributed to this report was obtained form direct involvement in all fieldwork executed on the property from the beginning of the exploration and drill programs, by Calpine Resources Incorporated.

5. I have no direct or indirect interest in the securities of Calpine Resources Incorporated or those of Consolidated Stikine Silver Ltd.

Ron Fenlon
Project Geologist

DATED at Vancouver, British Columbia, this 7th day of June, 1989.

Appendix IV

Diamond Drill Summary

Drill Cross-Sections: Geology and Assay, 1:1000

SEE MAP POCKETS

Appendix V

List of Significant Intersections and Assay Summaries

Appendix VI

Specific Gravity Results

Procedure for the specific gravity measurements is as follows:

"Approximately 40 to 50 grams of sample ground to 10 mesh are carefullly introduced into 200 ml wide-neck flask containing about 60 millilitres of distilled water. The weight is recorded. The flask is filled to the mark with water at the same temperature and weighed. The specific gravity may then be calculated from the following formula:

$$\frac{a - c}{(a-c) + b - d}$$

a) represents the weight of the sample plus weight of flask partially filled with water;
b) flask weight, filled with water to the 200 ml mark;
c) flask weight, partially filled with water;
d) flask weight, containing the sample and filled to the mark with water."

The results are tabulated in the following tables:

SECTION 1

SUMMARY OF ASSAY RESULTS

CA88-03 TO CA89-70

CALPINE RESOURCES INCORPORATED

CALPINE RESOURCES INCORPORATED
CONSOLIDATED STIKINE SILVER LTD.
ESKAY CREEK PROJECT - MAY 1989 SUMMARY of ASSAY RESULTS
Skeena Mining Division, British Columbia

HOLE	INTERSECTION (feet)	CORE INTERVAL (feet)	GOLD (oz/ton)	SILVER (oz/ton)
CA88-3	283.1-301.1	21.3	0.200	0.29
CA88-5	112.1-354.2	242.1	0.136	2.03
	including			
	112.1-121.9	9.8	0.314	0.70
	189.3-218.8	29.5	0.217	0.91
	251.6-304.1	52.5	0.280	1.14
	328.7-354.3	25.6	0.045	12.28
CA88-6	294.6-391.1	96.5	0.752	1.13
	including			
	301.2-353.7	52.5	1.330	1.99
CA88-7	353.4-510.8	157.4	0.163	0.20
	including			
	353.4-387.8	34.4	0.422	0.62
	461.6-510.8	49.2	0.208	0.21
CA88-9	201.4-475.3	273.9	0.172	1.47
	including			
	210.4-260.3	58.9	0.601	2.77
	450.7-475.3	24.6	0.240	0.98
CA88-11	187.0-285.4	98.4	0.114	0.14
	including			
	201.8-211.6	9.8	0.267	1.19
	246.1-280.5	34.4	0.162	0.02
CA88-12	268.1-449.5	181.4	0.258	4.79
	including			
	268.1-316.6	48.5	0.188	11.13
	316.6-341.2	24.6	0.243	0.06
	341.2-449.5	108.3	0.293	3.03
CA88-13	282.5-326.8	44.3	0.233	3.35
CA88-14	162.4-182.1	19.7	0.165	1.58
CA88-15	172.2-270.6	98.4	0.056	6.33
	including			
	236.2-255.9	19.7	0.137	24.55
CA88-16	254.9-333.6	78.7	0.100	3.42
	including			
	264.7-294.2	29.5	0.150	7.87
	323.8-333.6	9.8	0.191	0.63
CA88-17	359.3-403.6	44.3	0.323	0.26
	including			
	378.9-398.6	19.7	0.524	0.48
CA88-18	157.5-290.4	132.9	0.229	3.50
	including			
	157.5-226.4	68.9	0.374	0.90
	226.4-290.4	64.0	0.073	6.29
CA89-19	191.9-295.3	103.4	0.198	4.84
	including			
	191.9-236.2	44.3	0.304	9.73
	265.8-295.3	29.5	0.203	2.33

CALPINE RESOURCES INCORPORATED
CONSOLIDATED STIKINE SILVER LTD.
ESKAY CREEK PROJECT - MARCH 1989 SUMMARY of ASSAY RESULTS cont.

HOLE	INTERSECTION (feet)	CORE INTERVAL (feet)	GOLD (oz/ton)	SILVER (oz/ton)
CA89-20	255.9-295.3	39.4	0.103	0.09
	including			
	255.9-265.7	9.8	0.316	0.21
	516.8-521.7	4.9	0.108	6.49
CA89-21	185.7-284.1	98.4	0.589	9.65
	including			
	185.7-220.2	34.5	1.284	26.38
CA89-23	157.5-270.7	113.2	0.440	3.01
	including			
	177.2-211.7	34.5	1.121	2.95
	236.2-270.7	34.5	0.186	6.65
	526.6-546.3	19.7	0.169	0.17
CA89-24	218.5-257.9	39.4	0.987	1.06
CA89-25	430.1-518.7	88.6	0.154	3.12
	including			
	430.1-449.8	19.7	0.224	1.19
	484.2-518.7	34.5	0.126	6.55
	563.0-577.8	14.8	0.282	0.51
CA89-27	207.6-216.5	8.9	0.535	2.70
CA89-28	212.5-240.7	28.2	1.054	0.20
	478.6-488.4	9.8	0.156	2.23
CA89-30	341.9-358.4	16.5	0.042	0.09
CA89-31	352.6-372.3	19.7	0.178	0.59
CA89-35	218.1-375.6	157.5	0.088	1.87
	including			
	218.1-247.6	29.5	0.142	5.12
	336.2-375.6	39.4	0.156	1.76
CA89-36	462.5-492.0	29.5	0.019	3.19
CA89-37	295.2-310.0	14.8	0.272	0.67
CA89-42	344.4-359.2	14.8	0.407	2.01
CA89-43	323.1-396.9	73.8	0.357	2.84
	including			
	323.1-362.5	39.4	0.639	2.79
CA89-44	364.1-388.7	24.6	0.313	1.30
CA89-45	388.0-397.5	9.5	0.184	0.63
	531.7-584.5	52.8	0.051	3.42
	including			
	558.3-584.5	26.2	0.054	5.42
	1194.3-1202.8	8.5	0.132	<0.05
CA89-48	595.3-619.9	24.6	0.076	4.22
CA89-50	555.6-596.0	40.4	0.272	2.09
CA89-52	384.7-409.3	24.6	0.077	0.86
	756.0-787.8	31.8	0.114	0.74
CA89-53	821.3-826.2	4.9	0.477	0.29
CA89-54	329.6-388.7	59.1	0.196	0.65
	including			
	359.2-388.7	29.5	0.285	1.01
CA89-56	875.7-882.3	6.6	0.126	1.38

CALPINE RESOURCES INCORPORATED
CONSOLIDATED STIKINE SILVER LTD.
ESKAY CREEK PROJECT - MARCH 1989 SUMMARY of ASSAY RESULTS cont.

HOLE	INTERSECTION (feet)	CORE INTERVAL (feet)	GOLD (oz/ton)	SILVER (oz/ton)
CA89-57	316.9-321.8	4.9	0.150	3.10
CA89-58	446.1-465.8	19.7	0.071	0.16
	813.4-816.7	3.3	0.125	1.21
CA89-59	373.9-393.6	19.7	0.090	4.25
CA89-60	442.8-455.9	13.1	0.045	<0.05
CA89-62	780.6-806.9	26.3	0.057	0.22
CA89-63	344.4-347.7	3.3	0.429	0.15
	865.9-915.1	49.2	0.070	0.44
CA89-64	488.7-564.2	75.5	0.269	8.87
	including			
	518.3-564.2	45.9	0.365	13.55
	600.2-656.0	55.8	0.037	0.14
CA89-65	403.5-413.3	9.8	0.070	0.56
CA89-66	352.7-372.4	19.7	0.199	0.26
CA89-67	334.6-400.2	65.6	0.217	3.27
	including			
	334.6-354.3	19.7	0.614	7.51
	459.2-478.9	19.7	0.128	5.13
CA89-68	344.5-354.2	9.8	0.208	2.74
	423.1-439.5	16.4	0.080	3.56
CA89-69	442.8-465.8	23.0	0.091	0.32
CA89-70	483.1-489.7	6.6	0.081	0.63

SECTION 2

TABULAR SUMMARY OF ASSAY DATA

FOR

SIGNIFICANT MINERALIZED INTERVALS

CA88-02 TO CA89-70

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA88-02	96859	77.9	79.4	1.5	0.050	1.32	3.98	8.15	0.01		
	96860	79.4	80.9	1.5	0.094	0.48	1.12	2.05	<0.01		
	96861	80.9	82.4	1.5	0.018	0.14	0.21	0.13			
	96862	82.4	83.9	1.5	0.018	0.14	0.05	0.02			
	96863	83.9	85.4	1.5	0.032	2.12	1.12	3.80	0.02		
	96864	85.4	86.9	1.5	0.054	0.20					
	96865	86.9	88.4	1.5	0.087	0.16					
CA88-03	97378	85.0	86.5	1.5	0.008	0.08			0.05		
	97379	86.5	88.0	1.5	0.458	0.10		0.01	0.20		
	97380	88.0	89.5	1.5	0.072	0.16		0.01	0.07		
	97381	89.5	91.0	1.5	0.138	0.78			0.04		
	97382	91.0	93.0	2.0	0.148	0.62	0.01		0.05		
CA88-04	96533	117.7	119.2	1.5	0.073	4.39	0.72	1.10		0.1	
	96534	119.2	120.7	1.5	0.034	1.67	2.32	4.39		0.08	
	96534	120.7	122.2	1.5	0.19	0.93	0.73	1.00			
CA88-05	96578	34.2	37.2	3.0	0.314					0.06	
	96580	37.2	39.7	2.5	0.038	0.71				0.04	
	96589	51.7	53.2	1.5	0.228	1.27				0.04	
	96590	53.2	54.7	1.5	0.052	0.72				0.01	
	96592	54.7	56.2	1.5	0.052	0.38				0.01	
	96593	56.2	57.7	1.5	0.124	1.06				0.02	
	96594	57.7	59.2	1.5	0.236	1.02				0.03	
	96595	59.2	60.7	1.5	0.172	0.68				0.03	
	96596	60.7	62.2	1.5	0.280	0.64				0.02	
	96597	62.2	63.7	1.5	0.161	0.56				0.01	
	96598	63.7	65.2	1.5	0.210	1.11				0.02	
	96599	65.2	66.7	1.5	0.244	1.44				0.03	
	96600	56.7	69.2	2.5	0.071	2.28				0.04	
	96472	69.2	70.7	1.5	0.048	1.14				0.03	
	96473	70.7	72.2	1.5	0.144	1.65				0.03	
	96474	73.7	75.2	1.5	0.020	0.08				0.02	
	96591	72.2	73.7	1.5	0.052	0.74				0.04	
	96475	75.2	76.7	1.5	0.072	0.06				0.02	
	96476	76.7	78.2	1.5	0.195	0.14				0.02	
	96477	78.2	79.7	1.5	0.481	2.68				0.04	
	96478	79.7	81.2	1.5	0.460	1.35				0.02	
	96479	51.2	82.7	1.5	0.377	0.60				0.02	
	96480	82.7	84.2	1.5	0.183	0.65				0.02	
	96481	84.2	85.7	1.5	0.248	0.44				0.01	
	96482	85.7	88.2	2.5	0.295	1.08				0.01	
	96483	88.2	89.7	1.5	0.225	4.00				0.03	
	96484	89.7	91.2	1.5	0.028	0.13				0.01	
	96485	91.2	92.7	1.5	0.298	0.47				0.01	
	96486	92.7	94.2	1.5	0.136	0.11				0.01	
	96487	94.2	95.7	1.5	0.048	0.16				0.01	
	96488	95.7	97.2	1.5	0.086	0.20				0.01	
	96489	97.2	98.7	1.5	0.130	0.38				0.01	
	96490	98.7	100.2	1.5	0.048	0.86				0.02	
	96491	100.2	101.7	1.5	0.028	4.38				0.03	

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA88-05	96492	101.7	103.2	1.5	0.031	15.25				0.15	
	96493	103.2	104.7	1.5	0.062	18.12				0.15	
	96494	104.7	106.2	1.5	0.041	22.88				0.23	
	96495	106.2	108.0	1.8	0.060	2.70				0.04	
CA88-06	96346	91.8	93.8	2.0	0.202	0.23		0.04	0.38	0.44	0.014
	96347	93.8	95.8	2.0	2.854	1.22	0.02	0.21	3.13	6.92	0.123
	96348	95.8	97.8	2.0	1.210	3.76	0.11	0.80	14.70	3.92	0.540
	96349	97.8	99.8	2.0	2.742	1.76	0.03	0.26	27.14	9.95	0.381
	96350	99.8	101.8	2.0	2.018	7.50	0.06	0.40	26.17	24.74	1.210
	96351	101.8	103.8	2.0	1.212	1.23	0.01	0.22	1.86	9.64	0.520
	96352	103.8	105.8	2.0	0.233	0.16		0.03	1.05	0.36	0.045
	96353	105.8	107.8	2.0	0.209	0.05		0.01	0.09	0.14	0.020
	96356	111.8	113.8	2.0	0.096	0.07	0.01	0.02	0.07	0.15	0.011
	96357	113.8	115.8	2.0	0.070	0.08	0.01		0.06	0.49	0.006
	96358	115.8	117.8	2.0	0.042	0.12		0.06	0.04	0.23	0.013
	96359	117.8	119.2	1.4	0.102	0.18	0.01	0.10	0.04	0.60	0.025
CA88-07	38442	101.7	103.2	1.5							
	38443	103.2	104.7	1.5		0.02					
	38444	104.7	106.2	1.5	0.002	0.04					
	38445	106.2	107.7	1.5	0.047	0.06		0.04	0.03		
	38446	107.7	109.2	1.5	0.124	0.22		0.02	0.07		
	38447	109.2	110.7	1.5	0.578	2.57	0.01	0.09	0.10		
	38448	110.7	112.2	1.5	1.672	1.12	0.02	0.06	0.82		
	38449	112.2	113.7	1.5	0.281	0.24		0.05	0.34		
	38450	113.7	115.2	1.5	0.121	0.12		0.01	0.03		
	38451	115.2	116.7	1.5	0.099	0.07		0.02	0.02		
	38452	116.7	118.2	1.5	0.078	0.03		0.01	0.01		
	38468	140.7	142.2	1.5	0.119			0.02	0.02		
	38469	142.2	143.7	1.5	0.217	0.04		0.02	0.02		
	38470	143.7	145.2	1.5	0.336	0.06		0.03	0.40		
	38471	146.2	146.7	1.5	0.130	0.19		0.02	0.08		
	38472	146.7	148.2	1.6	0.209	0.78		0.02	0.34		
	38473	148.2	149.7	1.5	0.132	0.24		0.01	0.13		
	38474	149.7	151.2	1.5	0.032	0.02		0.02	0.07		
	38475	151.2	152.7	1.5	0.207	0.03		0.01	0.02		
	38476	152.7	154.2	1.5	0.503	0.31		0.02	0.01		
	38477	154.2	155.7	1.5	0.195	0.42		0.02	0.01		
CA88-08	38587	93.1	94.6	1.5	0.137	0.38	0.01	0.04	0.06		
	38588	94.6	96.1	1.5	0.101	0.22		0.03	0.02		
	38608	124.6	126.1	1.5	0.381	0.17	0.01	0.02	0.18		
	38609	126.1	127.6	1.5	0.278	0.13		0.04	1.29		
CA88-09	38508	61.4	62.9	1.5	0.158	0.08		0.04	0.02		
	38509	62.9	64.4	1.5	0.492	0.58		0.04	1.79		

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA88-09	38510	64.4	65.9	1.5	0.547	1.26	0.01	0.02	0.16		
	38511	65.9	67.4	1.5	0.690	0.46	0.02	0.04	0.43		
	30512	67.4	68.9	1.5	0.184	0.06		0.02	0.04		
	38513	68.9	70.4	1.5	0.112	0.04		0.02	0.02		
	38514	70.4	71.9	1.5	0.255	0.06		0.02	0.03		
	38515	71.9	73.4	1.5	0.321	0.07		0.03	0.04		
	38516	73.4	74.9	1.5	1.388	0.85	0.01	0.03	0.27		
	38517	74.9	76.4	1.5	0.858	21.65	0.18	0.41	7.6		
	38518	76.4	77.9	1.5	1.985	7.90	0.06	0.21	4.26		
	38519	77.9	79.4	1.5	0.223	0.22		0.02	0.07		
	38656	86.9	88.4	1.5	0.093	0.10	0.01		0.04		
	38657	88.4	89.9	1.5	0.080	0.06	0.01	0.01	0.06		
	38658	89.9	91.4	1.5	0.094	0.13	0.01	0.02	0.01		
	38659	01.4	92.9	1.5	0.067	1.07	0.03	0.04	0.02		
	38662	95.9	97.4	1.5	0.024	3.15	0.11	0.09	0.04		
	38663	97.4	98.9	1.5	0.002	8.54	0.17	0.32	0.08		
	38669	106.4	107.9	1.5	0.044	1.87	0.02	0.01	0.02		
	38670	107.9	108.9	1.0	0.159	5.49	0.05	0.02	0.04		
	38671	108.9	110.4	1.5	0.018	1.23	0.02	0.01	0.01		
	38672	110.4	111.9	1.5	0.027	1.72	0.05	0.06	0.01		
	38673	111.9	113.4	1.5	0.047	1.37	0.04	0.04	0.02		
	38682	125.4	126.9	1.5	0.163	13.76	0.09	0.04	0.02		
	38690	137.4	138.9	1.5	0.050	1.13	0.06	0.04	0.01		
	38691	138.9	140.4	1.5	0.092	1.40	0.02	0.05	0.01		
	38692	140.4	141.9	1.5	0.089	0.37	0.01				
	38693	141.9	143.4	1.5	0.836	1.40	0.02	0.02	0.01		
	38694	143.4	144.9	1.5	0.131	0.61	0.06	0.04	0.01		
CA88-10	38951	87.0	88.5	1.5	0.062	0.44	0.02	0.01	0.03		
CA88-11	39016	57.0	58.5	1.5	0.053	0.03		0.05	0.02		
	39017	58.5	60.0	1.5	0.071	0.03		0.04	0.03		
	39018	60.0	61.5	1.5	0.058	0.06		0.03	0.02		
	39019	61.5	63.0	1.5	0.386	1.82	0.02	0.11	0.48		
	39020	63.0	64.5	1.5	0.148	0.56	0.02	0.04	0.08		
	39024	69.0	70.5	1.5	0.067				0.02		
	39025	70.5	72.0	1.5	0.129			0.01	0.02		
	39028	75.0	76.5	1.5	0.100			0.01	0.02		
	39029	76.5	78.0	1.5	0.090			0.01	0.02		
	39030	78.0	79.5	1.5	0.142			0.01	0.02		
	39031	79.5	81.0	1.5	0.320	0.03		0.02	0.02		
	39032	81.0	82.5	1.5	0.113	0.02			0.03		
	39033	82.5	84.0	1.5	0.268	0.07			0.06		

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA88-11	39034	84.0	85.5	1.5	0.104	0.06		0.02	0.04		
	39035	85.5	87.0	1.5	0.059	0.07			0.02		
	39077	148.5	150.0	1.5	0.051	0.55	2.32	1.76	0.02		
	39078	150.0	151.5	1.5	0.066	0.78	8.70	3.02	0.02		
	39088	165.0	166.5	1.5	0.054	0.14	0.03	0.02	0.03		
	39089	166.5	168.0	1.5	0.098	0.12			0.02		
	39090	168.0	169.8	1.5	0.134	0.50	0.26	0.86	0.05		
CA88-12	38756	81.7	83.2	1.5	0.140	0.30		0.01	0.14		
	38757	83.2	84.7	1.8	0.174	0.56	0.01	0.02	0.03		
	38758	84.7	86.2	1.5	0.114	0.37		0.02	0.04		
	38759	86.2	87.7	1.5	0.326	2.91	0.03	0.05	0.07		
	38760	87.7	89.2	1.5	0.250	56.83	1.00	1.66	0.89		
	38761	89.2	90.7	1.5	0.325	16.39	0.19	0.37	0.16		
	38762	90.7	92.2	1.5	0.122	23.18	0.23	0.45	0.26		
	38763	92.2	93.7	1.5	0.302	10.36	0.16	0.33	0.16		
	38764	93.7	95.2	1.5	0.072	0.30			0.02		
	38765	95.2	96.5	1.3	0.055	0.12			0.02		
	39172	96.5	98.0	1.5	0.118	0.12			0.02		
	39173	98.0	99.5	1.5	0.183	0.06			0.02		
	39174	99.5	101.0	1.5	0.330	0.04		0.09	0.02		
	39175	101.0	102.5	1.5	0.312	0.03		0.04	0.02		
	39176	102.5	104.0	1.5	0.232	0.05		0.01	0.02		
	39177	104.0	105.5	1.5	0.251	0.11	0.01	0.02	0.01		
	39178	105.5	107.0	1.5	0.336	0.12	0.01	0.03	0.01		
	39179	107.0	108.5	1.5	0.439	0.15	0.01	0.04	0.01		
	39180	108.5	110.0	1.5	0.194	0.12	0.01	0.04	0.01		
	39181	110.0	111.5	1.5	0.060	0.08	0.01	0.02	0.01		
	39182	111.5	113.0	1.5	0.047	0.07	0.01	0.03	0.01		
	39183	113.0	114.5	1.5	0.101	0.06	0.01	0.02	0.01		
	39184	114.5	116.0	1.5	0.081	0.15	0.01		0.01		
	39185	116.0	117.5	1.5	0.080	0.33	0.01		0.01		
	39186	117.5	119.0	1.5	0.592	5.06	0.05	0.07	0.07		
	39187	119.0	120.5	1.5	1.780	10.98	0.10	0.24	0.13		
	39188	120.5	122.0	1.5	1.058	18.64	0.13	0.20	0.18		
	39189	122.0	123.5	1.5	0.177	4.54	0.08	0.12	0.07		
	39190	123.5	125.0	1.5	0.050	1.69	0.03	0.03	0.03		
	39191	125.0	126.5	1.5	0.065	7.90	0.01	0.02	0.05		
	39192	126.5	128.0	1.5	0.174	5.76	0.03	0.02	0.06		
	39193	128.0	129.5	1.5	0.050	0.41	0.01	0.01	0.01		
	39194	129.5	131.0	1.5	0.236	0.48	0.01	0.03	0.02		
	39195	181.0	132.5	1.5	0.055	2.23	0.02	0.04	0.04		
	39196	132.5	134.0	1.5	0.057	1.00	0.01	0.02	0.05		
	39197	134.0	135.5	1.5	0.375	5.09	0.04	0.08	0.07		
	39198	135.5	137.0	1.5	0.179	1.72	0.02	0.03	0.03		

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA88-13	39258	86.1	87.6	1.5	0.304	2.46	0.03	0.08		0.04	
	39259	87.6	89.1	1.5	0.562	14.35	0.15	0.21		0.22	
	39260	89.1	90.6	1.5	0.470	8.45	0.09	0.15		0.14	
	39261	90.6	92.1	1.5	0.142	2.39	0.04	0.05		0.06	
	39262	92.1	93.6	1.5	0.133	0.57	0.02	0.01		0.05	
	39263	03.6	95.1	1.5	0.121	1.56	0.02	0.05		0.06	
	39264	95.1	96.6	1.5	0.135	0.26	0.01	0.02		0.04	
	39265	96.6	98.1	1.5	0.089	0.03	0.01	0.01		0.03	
	39266	98.1	99.6	1.5	0.138	0.04	0.01	0.02		0.04	
	39267	99.6	101.1	1.5	0.084	0.06	0.01	0.02		0.04	
	39268	101.1	102.6	1.5	0.055	0.02	0.01	0.01		0.03	
	39273	108.6	110.1	1.5	0.052	0.07	0.01	0.01		0.01	
	39274	110.1	111.6	1.5	0.098	0.15	0.02	0.01		0.02	
	39275	111.6	113.1	1.5	0.072	0.07	0.01	0.02		0.01	
	39276	113.1	114.6	1.5	0.050	0.04	0.01	0.02		0.01	
	39287	129.6	131.1	1.5	0.360	0.06	0.01	0.01		0.01	
CA88-14	39405	49.5	51.0	1.5	0.423	1.58	0.01		0.03		
	39406	51.0	52.5	1.5	0.065	4.30	0.10	0.12	0.05		
	39407	52.5	54.0	1.5	0.021	0.25	0.03	0.22	0.01		
	39408	54.0	55.5	1.5	0.151	0.19	0.17		0.01		
	39430	87.0	88.5	1.5	0.049	0.32	0.54	0.57	0.02		
	39431	88.5	90.0	1.5	0.074	0.06		0.04	0.01		
CA88-15	39539	52.5	54.0	1.5	0.048	1.25	0.04	0.14	0.04		
	39540	64.0	55.5	1.5	0.052	1.85	0.04	0.02	0.06		
	39541	55.5	57.0	1.5	0.044	1.19	0.01		0.02		
	39542	57.0	58.5	1.5	0.103	4.88	0.12	0.09	0.04		
	39543	58.5	60.0	1.5	0.018	2.15	0.02	0.04	0.02		
	39544	60.0	61.5	1.5	0.017	13.81	0.08	0.09	0.10		
	39552	72.0	73.5	1.5	0.022	3.94	0.04	0.04	0.03		
	39553	73.5	75.0	1.5	0.204	16.09	0.38	0.70	0.08		
	39554	75.0	76.5	1.5	0.291	76.15	1.29	3.18	0.34		
	39555	76.5	78.0	1.5	0.032	2.04	0.05	0.13	0.02		
	39556	78.0	79.5	1.5	0.025	0.31	0.12	0.22	0.01		
	39558	81.0	82.5	1.5	0.110	1.52	0.14	0.26	0.03		
CA88-16	39654	76.2	77.7	1.5	0.061	0.03		0.05	0.02		
	39655	77.7	79.2	1.5	0.080	0.06		0.08	0.02		
	39656	79.2	80.7	1.5	0.104	0.25	0.01	0.12	0.03		
	39657	80.7	82.2	1.5	0.452	12.48	0.12	0.26	2.59		
	39658	82.2	83.7	1.5	0.175	4.87	0.07	0.16	1.52		

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA88-16	39659	83.7	85.2	1.5	0.046	2.88	0.06	0.10	0.08		
	39660	85.2	86.7	1.5	0.089	1.77	0.02	0.02	0.04		
	39661	86.7	88.2	1.5	0.078	5.27	0.06	0.11	0.06		
	39662	88.2	89.7	1.5	0.062	19.97	0.23	0.44	0.13		
	39663	89.7	91.2	1.8	0.046	1.85	0.04	0.05	0.03		
	39664	91.2	92.7	1.5	0.035	2.16	0.02		0.02		
	39669	98.7	100.2	1.5	0.229	0.37	0.02	0.03	0.01		
	39670	100.2	101.7	1.5	0.153	0.89	0.11	0.13	0.03		
CA89-17	37616	97.5	99.0	1.5	0.256	0.27	0.01	0.06	0.19	0.03	
	37623	108.0	109.5	1.5	0.050	0.12					
	37624	109.5	111.0	1.5	0.129	0.16	0.01	0.04	0.07	0.02	
	37625	111.0	112.5	1.5	0.416	0.16	0.01	0.04	0.06	0.03	
	107501	112.5	114.0	1.5	0.107	0.06	0.01	0.02	0.09	0.03	
	107502	114.0	115.5	1.5	0.050						
	107503	115.5	117.0	1.5	0.272		0.01	0.01	0.03	0.01	
	107504	117.0	118.5	1.5	0.587	0.21	0.01	0.03	0.04	0.30	
	107505	118.5	120.0	1.5	0.839	1.52	0.02	0.04	0.02	1.85	
	107506	120.0	121.5	1.5	0.396	0.20	0.01	0.02	0.07	0.15	
	107507	121.5	123.0	1.5	0.114	0.02	0.01	0.02	0.05	0.03	
	107540	171.0	172.5	1.5	0.053	0.17					
	107542	174.0	175.5	1.5	0.066	0.21					
	107546	180.0	181.5	1.5	0.086	0.57	0.36	0.72	0.07	0.01	
	107547	181.5	183.0	1.5	0.104	0.40	0.48	0.78	0.09	0.01	
CA89-18	107630	46.5	48.0	1.8	0.075	0.13					
	107631	48.0	49.5	1.5	0.225	0.12	0.01	0.02	0.83	0.32	
	107632	49.5	51.0	1.5	0.181	0.10	0.01	0.01	0.87	0.06	
	107633	51.0	52.5	1.5	0.217	0.21	0.01	0.01	5.38	0.28	
	107634	52.5	54.0	1.5	0.184	0.02	0.01	0.02	0.58	0.03	
	107635	54.0	55.5	1.5	0.749	1.18	0.02	0.04	0.80	0.13	
	107636	55.5	57.0	1.5	2.567	9.92	0.04	0.33	1.59	12.73	
	107637	57.0	58.5	1.5	0.085	0.05					
	107638	58.5	60.0	1.5	0.051	0.09					
	107639	60.0	61.5	1.5	0.179	0.02	0.01	0.01	0.66	0.02	
	107640	61.5	63.0	1.5	0.180	0.03	0.01	0.01	0.41	0.03	
	107641	63.0	64.5	1.5	0.225	0.09	0.01	0.02	0.07	0.19	
	107642	64.5	66.0	1.5	0.167	0.12	0.01	0.03	0.03	0.40	
	107643	66.0	67.5	1.5	0.094	0.20	0.01	0.04	0.02	1.54	
	107644	67.5	69.0	1.5	0.126	0.39	0.02	0.08	0.10	1.96	
	107645	69.0	70.5	1.5	0.080	5.43					
	107646	70.5	72.0	1.5	0.044	25.59					
	107647	72.0	73.5	1.5	0.012	5.40					
	107648	73.5	75.0	1.5	0.016	3.36					
	107649	75.0	76.5	1.5	0.055	3.37					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-18	107650	76.5	78.0	1.5	0.087	1.96					
	107651	78.0	79.5	1.5	0.096	8.13					
	107652	79.5	81.0	1.5	0.059	3.44					
	107653	81.0	82.5	1.5	0.037	0.64					
	107654	82.5	84.0	1.5	0.111	4.80	0.05	0.07	0.04	1.16	
	107655	84.0	85.5	1.5	0.097	12.90	0.16	0.26	0.05	1.21	
	107656	85.5	87.0	1.5	0.181	1.02	0.02	0.04	0.03	0.02	
	107657	87.0	88.5	1.5	0.074	5.75					
	107658	88.5	90.0	1.5	0.088	2.85					
CA89-19	107770	57.0	58.5	1.5	0.056	0.03					
	107771	58.5	60.0	1.5	0.490	2.74	0.03	0.08	1.07		
	107772	60.0	61.5	1.5	0.766	7.93	0.10	0.12	0.12		
	107773	61.5	63.0	1.5	0.253	8.64	0.10	0.18	0.07		
	107774	63.0	64.5	1.5	0.329	25.74	0.32	0.57	0.16		
	107775	64.5	66.0	1.5	0.303	41.67	0.12	0.34	0.18		
	107776	66.0	67.5	1.5	0.151	0.41	0.01	0.02	0.06		
	107777	67.5	69.0	1.5	0.146	0.19	0.01	0.03	0.06		
	107778	69.0	70.5	1.5	0.114	0.12	0.01	0.02	0.05		
	107779	70.5	72.0	1.5	0.182	0.15	0.01	0.02	0.07		
	107780	72.0	73.5	1.5	0.065	0.05					
	107786	81.0	82.5	1.5	0.458	0.20	0.01	0.01	0.18		
	107787	82.5	84.0	1.5	0.274	0.54	0.01	0.03	0.05		
	107788	84.0	85.5	1.5	0.109	1.20	0.02	0.02	0.03		
	107789	85.5	87.0	1.5	0.061	1.50					
	107790	87.0	88.5	1.5	0.184	10.14	0.08	0.04	0.03		
	107791	88.5	90.0	1.5	0.133	0.38	0.01		0.05		
	107792	90.0	91.5	1.5	0.041	0.08					
	107793	91.5	93.0	1.5	0.074	0.02					
CA89-20	107909	78.0	79.5	1.5	0.242	0.22	0.12	0.04	0.31	0.05	
	107910	79.5	81.0	1.5	0.389	0.19	0.01	0.02	0.02	0.05	
	107962	157.5	159.0	1.5	0.108	6.49					
CA89-21	108030	50.6	52.1	1.5	0.030	2.47					
	108031	52.1	53.6	1.5	0.170	0.64	0.01	0.02	0.90	0.20	
	108032	53.6	55.1	1.5	0.018	0.07					
	108033	55.1	56.6	1.5	0.069	0.05					
	108034	56.6	58.1	1.5	0.522	3.27	0.02	0.04	1.33	0.11	
	108035	58.1	59.6	1.5	1.253	5.25	0.04	0.18	3.57	3.64	
	108036	59.6	61.1	1.5	1.109	13.23	0.10	0.35	4.28	23.53	
	108037	61.1	62.6	1.5	0.630	70.60	0.42	1.15	0.70	45.57	
	108038	62.6	64.1	1.5	0.814	34.31	0.18	0.84	0.85	51.73	
	108039	64.1	65.6	1.5	2.730	14.13	0.06	0.40	1.56	34.47	
	108040	65.6	67.1	1.5	1.939	43.80	0.28	0.54	1.53	10.12	
	108041	67.1	68.6	1.5	0.245	1.11	0.01	0.04	0.26	0.19	

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
	108042	68.6	70.1	1.5	0.095	0.16					
	108043	70.1	71.6	1.6	0.160	0.33	0.01	0.02	0.11	0.22	
	108044	71.6	73.1	1.5	0.765	0.98	0.01	0.04	0.16	0.34	
	108045	73.1	74.6	1.5	0.294	0.31		0.02	0.09	0.14	
	108046	74.6	76.1	1.5	0.074	0.17					
	108047	76.1	77.6	1.5	0.038	0.18					
	108048	77.6	79.1	1.5	0.086	0.13					
	108049	79.1	80.6	1.5	0.386	0.37	0.01	0.02	0.07	0.31	
	108050	80.6	82.1	1.5	0.069	1.47					
	108051	82.1	83.6	1.5	0.056	1.95					
	108052	83.6	85.1	1.5	0.202	0.75	0.02	0.04		0.02	
	108053	85.1	86.6	1.5	0.323	0.52	0.04	0.03	0.03	0.04	
	108054	86.6	88.1	1.5	0.095	0.77	0.08	0.14	0.02	0.03	
	108055	88.1	89.6	1.5	0.049	0.68					
	108056	89.6	91.1	1.5	0.103	0.22		0.01	0.02	0.01	
	108057	91.1	92.6	1.5	0.058	0.58					
CA89-22	108132	60.7	63.2	2.5	0.058	0.06					
	108133	63.2	64.7	1.5	0.060	0.12					
	108134	64.7	66.2	1.5	0.206	0.16	0.01	0.02	0.01	0.01	
	108135	66.2	67.7	1.5	0.070	0.17					
	108140	73.7	75.2	1.5	0.023	50.03					
CA89-23	108230	48.0	49.5	1.5	0.371	0.27		0.02	0.12	0.80	
	108231	49.5	51.0	1.5	0.014	0.17					
	108232	51.0	52.5	1.5	0.117	0.09		0.06	0.90	0.04	
	108233	52.5	54.0	1.5	0.131	0.02		0.02	0.61	0.02	
	108234	54.0	55.5	1.5	0.301	0.05		0.01	0.37	0.03	
	108235	55.5	57.0	1.5	0.862	0.10		0.01	0.83	0.11	
	108236	57.0	58.5	1.5	1.301	0.13		0.03	1.24	0.21	
	108237	58.5	60.0	1.5	1.621	13.44	0.15	0.80	6.36	26.63	
	108238	60.0	61.5	1.5	1.262	4.52	0.02	0.20	10.95	5.96	
	108239	61.5	63.0	1.5	1.736	1.60	0.01	0.16	33.33	9.00	
	108240	63.0	64.5	1.5	0.762	0.82		0.05	32.44	1.45	
	108241	64.5	66.0	1.5	0.158	0.90	0.01	0.02	8.52	0.59	
	108245	70.5	72.0	1.5	0.051	0.13					
	108246	72.0	73.5	1.5	0.239	1.54	0.03	0.17	0.08	2.99	
	108247	73.5	75.0	1.5	0.074	4.39					
	108248	75.0	76.5	1.5	0.561	1.21	0.02	0.02	0.04	0.30	
	108249	76.5	78.0	1.5	0.240	2.09	0.10	0.18	0.03	0.06	
CA89-23	108250	78.0	79.5	1.5	0.054	21.22					
	108251	79.5	81.0	1.5	0.061	2.85					
	108252	81.0	82.5	1.5	0.076	13.25					
	108304	159.0	160.5	1.5	0.048	0.14					
	108305	160.5	162.0	1.5	0.110	0.14	0.13	0.14	0.05	0.02	
	108306	162.0	163.5	1.5	0.252	0.29	0.41	0.86	0.07	0.03	
	108307	163.5	165.0	1.5	0.142	0.14	0.02	0.04	0.06	0.02	

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-23	108308	165.0	166.5	1.5	0.173	0.10			0.01	0.01	
CA89-24	108353	65.1	66.6	1.5	0.081	0.07					
	108354	66.6	68.1	1.5	0.236	0.08		0.08	2.82	0.04	
	108355	68.1	69.6	1.5	1.961	2.06	0.01	0.15	40.42	11.43	
	108356	69.6	71.1	1.5	3.028	3.60	0.03	0.17	17.48	9.36	
	108357	71.1	72.6	1.5	0.562	2.47	0.03	0.10	1.71	2.04	
	108358	72.6	74.1	1.5	0.767	0.25	0.01	0.03	0.47	0.42	
	108359	74.1	75.6	1.5	0.645	0.04		0.02	0.25	0.07	
	108360	75.6	77.1	1.5	0.464			0.02	0.27	0.02	
	108361	77.1	78.6	1.5	0.232			0.02	0.34	0.03	
	108362	78.6	80.1	1.5	0.093						
CA89-24	108376	99.6	101.1	1.5	0.074	0.50					
	108377	101.1	102.6	1.5	0.119	4.47	0.03	0.04	0.01	0.18	
	108407	146.1	147.6	1.5	0.080	0.22					
CA89-25	108529	131.1	132.6	1.5	0.279	1.31	0.02	0.05	0.04	0.02	
	108530	132.6	134.1	1.5	0.102	2.07	0.04	0.11		0.04	
	108531	134.1	135.6	1.5	0.046	0.54					
	108532	135.6	137.1	1.5	0.467	1.33	0.03	0.06		0.02	
	108533	137.1	138.6	1.5	0.034	0.15					
	108534	138.6	140.1	1.5	0.033	0.24					
	108535	140.1	141.6	1.5	0.153	0.36				0.01	
	108536	141.6	143.1	1.5	0.189	0.28				0.01	
	108537	143.1	144.6	1.5	0.187	0.98	0.01	0.03		0.01	
	108538	144.6	146.1	1.5	0.160	1.71	0.02	0.08		0.02	
	108539	146.1	147.6	1.5	0.146	1.36	0.02	0.02		0.02	
	108540	147.6	149.1	1.5	0.339	10.17	0.10	0.18		0.05	
	108541	149.1	150.6	1.5	0.047	1.15					
	108542	150.6	152.1	1.5	0.107	5.35	0.05	0.26		0.03	
	108543	152.1	153.6	1.5	0.161	6.71	0.05	0.14		0.04	
	108544	153.6	155.1	1.5	0.028	8.24					
	108545	155.1	156.6	1.5	0.020	5.06					
	108546	156.6	158.1	1.5	0.181	9.17	0.19	0.28		0.05	
	108547	158.1	159.6	1.5	0.032	0.34					
CA89-27	108622	63.3	64.5	1.2	1.019	5.13	0.03	0.28	0.31	3.77	
	108623	64.5	66.0	1.5	0.148	0.75	0.01	0.02	0.30	0.05	
	108671	132.0	133.5	1.5	0.072	0.14					
	108672	133.5	135.0	1.5	0.009	0.18					
	108693	165.0	166.5	1.5	0.078	2.58					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-28	108742	64.8	66.2	1.4	2.181	0.04	0.01	0.04	3.69	0.03	
	108743	66.2	67.7	1.5	0.987	0.21	0.01	0.01	1.68	0.20	
	108744	67.7	69.0	1.3	0.674	0.38	0.02	0.02	3.19	1.90	
	108745	69.0	70.4	1.4	1.051	0.49	0.02	0.02	3.67	0.24	
	108746	70.4	71.8	1.4	1.375	0.04	0.02	0.03	16.89	0.09	
	108747	71.8	73.4	1.6	0.190	0.05	0.03	0.02	3.56	0.02	
	108805	145.9	147.4	1.5	0.145	2.82	0.04	0.12	0.04	0.04	
	108806	147.4	148.9	1.5	0.166	1.64	0.04	0.05	0.03	0.03	
	108807	148.9	150.4	1.5	0.088	0.19					
CA89-30	108916	104.2	105.7	1.5	0.058	0.07					
	108929	122.7	124.2	1.5	0.105	0.54		0.02	0.02	0.02	
CA89-31	109059	97.0	98.5	1.5	0.065	4.00					
	109065	106.0	107.5	1.5	0.056	0.25					
	109066	107.5	109.0	1.5	0.151	0.91	0.13	0.24	0.01	0.02	
	109067	109.0	110.5	1.5	0.083	0.10					
	109068	110.5	112.0	1.5	0.094	0.17					
	109069	112.0	113.5	1.5	0.386	1.19	0.09	0.01	0.03	0.03	
	109165	256.0	257.5	1.5	0.088	2.41					
	109166	257.5	259.0	1.5	0.066	1.27					
	109170	263.5	265.0	1.5	0.086	0.35					
	109171	265.0	266.5	1.5	0.105	0.43					
	109172	266.5	268.0	1.5	0.081	0.29					
	109173	268.0	269.5	1.5	0.048	0.16					
	109185	286.0	287.5	1.5	0.083	1.02					
CA89-35	40017	66.5	68.0	1.5	0.223						
	40018	68.0	69.5	1.5	0.141	2.52					
	40019	69.5	71.0	1.5	0.102	1.30					
	40020	71.0	72.5	1.5	0.108	3.61					
	40021	72.5	74.0	1.6	0.127	15.43					
	40022	74.0	75.5	1.5	0.091	7.84					
	40023	75.5	77.0	1.5	0.048	0.97					
	40024	77.0	78.5	1.5	0.066	0.18					
	40025	78.5	80.0	1.5	0.049	1.28					
CA89-35	40026	80.0	81.5	1.5	0.033	2.93					
	40027	81.5	83.0	1.5	0.037	1.36					
	40030	86.0	87.5	1.5	0.048	0.53					
	40031	87.5	89.0	1.5	0.064	0.54					
	40032	89.0	90.5	1.5	0.074	0.73					
	40033	90.5	92.0	1.5	0.066	1.02					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-35	40041	102.5	104.0	1.5	0.070	12.00					
	40042	104.0	105.5	1.5	0.117	0.36					
	40043	105.5	107.0	1.5	0.237	0.24					
	40044	107.0	108.5	1.5	0.228	0.22					
	40045	108.5	110.0	1.5	0.113	0.66					
	40046	110.0	111.5	1.5	0.231	0.36					
	40047	111.5	113.0	1.5	0.108	0.14					
	40048	113.0	114.5	1.5	0.08	0.10					
	40123	225.5	227.0	1.5	0.095	0.50					
	40128	233.0	234.5	1.5	0.010	0.08					
	40129	234.5	236.0	1.5	0.114	0.96					
	40130	236.0	237.5	1.5	0.044	0.51					
CA89-36	40206	14.5	16.0	1.5	0.037	0.19					
	40274	141.0	142.5	1.5	0.023	3.66					
	40278	147.0	148.5	1.5	0.024	1.87					
	40279	148.5	150.0	1.5	0.023	11.06					
	40374	291.0	292.5	1.5	0.077	0.66					
CA89-37	40415	90.0	91.5	1.5	0.095	0.74					
	40416	91.5	93.0	1.5	0.635	0.99					
	40417	93.0	94.5	1.5	0.061	0.28					
	40492	205.5	207.0	1.5	0.063	0.26					
	40495	210.0	211.5	1.5	0.050	0.12					
CA89-42	40564	105.0	106.5	1.5	0.174	0.51					
CA89-43	40662	95.5	97.0	1.5	0.054	0.08					
	40663	97.0	98.5	1.5	0.056	0.08					
	40664	98.5	100.0	1.5	0.258	10.04					
	40665	100.0	101.5	1.5	2.350	7.80					
	40666	101.5	103.0	1.5	1.200	2.91					
	40667	103.0	104.5	1.5	0.219	0.23					
	40668	104.5	106.0	1.5	0.603	0.26					
CA89-43	40669	106.0	107.5	1.5	0.088	0.60					
	40670	107.5	109.0	1.5	0.143	0.25					
	40671	109.0	110.5	1.5	0.130	0.23					
	40672	110.5	112.0	1.5	0.063	0.45					
	40673	112.0	113.5	1.5	0.032	3.82					
	40674	113.5	115.0	1.5	0.021	3.88					
	40675	115.0	116.5	1.5	0.011	0.47					
	40676	116.5	118.0	1.5	0.014	7.59					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
	40677	118.0	119.5	1.5	0.008	1.91					
	40678	119.5	121.0	1.5	0.085	2.20					
	40679	121.0	122.5	1.5	0.059	0.54					
	40762	245.5	247.0	1.5		0.15					
CA89-44	40812	111.0	112.5	1.5	0.150	0.09					
	40813	112.5	114.0	1.5	0.314						
	40814	114.0	115.5	1.5	0.343	0.81					
	40815	115.5	117.0	1.5	0.256	5.28					
	40816	117.0	118.5	1.5	0.498	0.30					
CA89-45	40939	118.3	119.7	1.4	0.213	1.01					
	40940	119.7	121.2	1.5	0.098	0.27					
	40969	162.1	163.6	1.5	0.043	0.59					
	40973	166.6	168.1	1.5	0.129	0.34			0.03	0.01	
	40977	171.8	173.4	1.6	0.035	1.16					
	40978	173.4	174.1	0.7	0.081	7.27					
	40979	174.1	175.2	1.1	0.115	33.63					
	41000	208.1	209.6	1.5	0.056	0.29					
	41001	209.6	210.9	1.3	0.083	0.39					
	41106	364.1	365.6	1.5	0.051	0.05					
	41107	365.6	366.7	1.1	0.227						
CA89-48	110083	127.5	129.0	1.5	0.092	0.04					
	110084	129.0	130.5	1.5	0.107	0.08		0.01	0.02	0.02	
	110119	181.5	183.0	1.5	0.058	16.03					
	110120	183.0	184.5	1.5	0.021	2.09					
	110121	184.5	186.0	1.5	0.024	1.96					
	110122	186.0	187.5	1.5	0.106	0.58	0.04	0.28	0.02	0.02	
	110123	187.5	189.0	1.5	0.083	0.45					
CA89-50	41178	169.4	170.9	1.5	0.084	0.18					
	41179	170.9	172.5	1.6	0.201	0.26					
CA89-50	41180	172.5	174.1	1.6	0.364	3.94					
	41181	174.1	175.6	1.5	0.074	0.91					
	41182	175.6	177.0	1.4	0.144	2.02					
	41183	177.0	178.5	1.5	0.506	1.70					
	41184	178.5	179.5	1.0	0.756	10.84					
	41185	179.5	180.5	1.0	0.276	0.83					
	41186	180.5	181.7	1.2	0.090	0.21					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-52	41319	117.3	118.8	1.5	0.045	2.63					
	41320	118.8	120.3	1.5	0.026	0.93					
	41321	120.3	121.8	1.5	0.035	0.31					
	41322	121.8	123.8	2.0	0.186	0.27					
	41399	230.5	232.0	1.5	0.128	0.69					
	41400	232.0	233.5	1.5	0.063	0.45					
	41401	233.5	234.0	0.5	0.035	0.33					
	41402	234.0	235.7	1.7	0.190	1.50					
	41403	235.7	237.2	1.5	0.100	0.61					
	41404	237.2	238.7	1.5	0.070	0.46					
	41405	238.7	240.2	1.5	0.128	0.79					
	41406	240.2	241.7	1.5	0.081	0.58					
	41414	252.0	252.9	0.9	0.064	0.20					
	41415	252.9	254.4	1.5	0.061	0.09					
CA89-53	41472	127.1	129.5	2.4	0.121	0.22					
	41494	159.7	161.2	1.5	0.077						
	41495	161.2	162.7	1.5	0.042						
	41496	162.7	164.2	1.5	0.050	0.44					
	41497	164.2	165.7	1.5	0.033	0.27					
	41498	165.7	167.2	1.5	0.063						
	41499	167.2	168.7	1.5	0.076	0.12					
	41559	250.4	251.9	1.5	0.466	0.29					
CA89-54	110271	109.5	111.0	1.5	0.385	1.35	0.03	0.12	0.04	0.04	
	110272	111.0	112.5	1.5	0.428	2.31	0.03	0.09	0.04	0.03	
	110273	112.5	114.0	1.5	0.067	0.34					
	110274	114.0	115.5	1.5	0.140	0.73	0.03	0.06	0.02	0.02	
	110275	115.5	117.0	1.5	0.217	0.49			0.03	0.01	
	110276	117.0	118.5	1.5	0.473	0.82	0.02	0.04	0.01	0.01	
	110346	222.0	223.5	1.5	0.065	0.67					
CA89-55	110436	158.5	160.0	1.5	0.033	1.38					
	110437	160.0	161.5	1.5	0.029	0.48					
CA89-55	110438	161.5	163.0	1.5	0.035	0.78					
CA89-56	110717	266.0	267.0	1.0	0.022	0.32					
	110718	267.0	268.0	1.0	0.187	1.69	0.04	0.24	0.81	0.03	
	110719	268.0	269.0	1.0	0.065	1.05					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-57	41635	96.6	98.1	1.5	0.141	3.10					
	41653	122.8	124.3	1.5	0.045	0.08					
CA89-58	41795	105.0	106.0	1.0	0.063	0.26					
	41796	106.0	107.0	1.0	0.077	0.13					
	41826	136.0	137.0	1.0	0.051	0.19					
	41827	137.0	138.0	1.0	0.057	0.13					
	41828	138.0	139.0	1.0	0.079	0.06					
	41829	139.0	140.0	1.0	0.08	0.27					
	41830	140.0	141.0	1.0	0.073	0.24					
	41831	141.0	142.0	1.0	0.078	0.08					
	41938	248.0	249.0	1.0	0.118	1.21					
CA89-59	42033	114.0	115.0	1.0	0.086	15.89					
	42034	115.0	116.0	1.0	0.024	0.58					
	42035	116.0	117.0	1.0	0.112	4.14					
	42036	117.0	118.0	1.0	0.073	2.13					
	42037	118.0	119.0	1.0	0.177	1.32					
	42038	119.0	120.0	1.0	0.065	1.45					
	42039	120.0	121.0	1.0	0.008	0.29					
	42164	243.0	244.0	1.0		0.34					
	42199	278.0	279.0	1.0	0.090	0.46					
	42200	279.0	280.0	1.0	0.051	0.34					
	42248	329.0	330.0	1.0	0.069	0.09					
	42249	330.0	331.0	1.0	0.049	0.06					
CA89-60	42404	113.0	114.0	1.0	0.045	0.20					
	42408	117.0	118.0	1.0	0.080						
	42427	136.0	137.0	1.0	0.052						
	42428	137.0	138.0	1.0	0.057	0.05					
CA89-62	110972	162.0	163.0	1.0	0.089	0.04					
	111048	238.0	239.0	1.0	0.055	0.36					
CA89-63	111120	105.0	106.0	1.0	0.429	0.15	0.02	0.02	1.43	0.03	
	111279	264.0	265.0	1.0	0.087	0.46					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-63	111280	265.0	266.0	1.0	0.045	0.31					
	111281	266.0	267.0	1.0	0.026	0.36					
	111282	267.0	268.0	1.0	0.066	0.41					
	111283	268.0	269.0	1.0	0.032	0.26					
	111284	269.0	270.0	1.0	0.042	0.29					
	111285	270.0	271.0	1.0	0.055	0.83					
	111286	271.0	272.0	1.0	0.060	0.62					
	111287	272.0	273.0	1.0	0.076	0.60					
	111288	273.0	274.0	1.0	0.083	0.62					
	111289	274.0	275.0	1.0	0.040	0.44					
	111290	275.0	276.0	1.0	0.038	0.34					
	111291	276.0	277.0	1.0	0.061	0.30					
	111292	277.0	278.0	1.0	0.020	0.15					
	111293	278.0	279.0	1.0	0.325	0.58	0.02		0.01	0.01	
	111294	279.0	280.0	1.0	0.003	0.09					
CA89-64	111350	142.0	143.0	1.0	0.074	4.17					
	111351	143.0	144.0	1.0	0.004	0.21					
	111356	148.0	149.0	1.0	0.072	0.13					
	111357	149.0	150.0	1.0	0.101	0.69		0.02			
	111358	150.0	151.0	1.0	0.087	3.83					
	111359	151.0	152.0	1.0	0.110	2.21	0.04	0.04	0.02	0.02	
	111360	152.0	153.0	1.0	0.167	3.50	0.05	0.11	0.06	0.03	
	111361	153.0	154.0	1.0	0.079	1.16					
	111362	154.0	155.0	1.0	0.350	2.26	0.02	0.08	0.01	0.02	
	111363	155.0	156.0	1.0	0.038	0.29					
	111364	156.0	157.0	1.0	0.023	0.11					
	111365	157.0	158.0	1.0	0.123	0.21		0.01			
	111366	158.0	159.0	1.0	0.279	0.37		0.03		0.01	
	111367	159.0	160.0	1.0	0.229	0.53	0.01	0.02	0.03	0.01	
	111368	160.0	161.0	1.0	0.506	4.82	0.08	0.05	0.02	0.05	
	111369	161.0	162.0	1.0	0.049	0.39					
	111370	162.0	163.0	1.0	0.185	1.20	0.02	0.03	0.05	0.02	
	111371	163.0	164.0	1.0	0.353	114.76	1.39	2.90	0.01	1.04	
	111372	164.0	165.0	1.0	0.169	10.62	0.09	0.14	0.01	0.08	
	111373	165.0	166.0	1.0	0.318	0.98	0.04	0.06	0.01	0.01	
	111374	166.0	167.0	1.0	0.073	2.39					
	111375	167.0	168.0	1.0	0.164	0.58	0.09	0.10	0.02	0.02	
	111376	168.0	169.0	1.0	0.225	1.51	0.15	0.40	0.04	0.04	
	111377	169.0	170.0	1.0	0.571	9.37	0.13	0.36	0.01	0.05	
	111378	170.0	171.0	1.0	1.689	41.53	0.51	1.05	0.01	0.13	
	111379	171.0	172.0	1.0	0.304	0.67	0.10	0.17	0.01	0.01	
CA89-64	111391	183.0	184.0	1.0	0.047	0.18					
	111392	184.0	185.0	1.0	0.167	0.17	0.01	0.02		0.01	
	111454	246.0	247.0	1.0	0.060	1.67					
	111455	247.0	248.0	1.0	0.027	0.22					
	111461	253.0	254.0	1.0	0.063	0.29					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-65	111525	123.0	124.0	1.0	0.069	0.10					
	111526	124.0	125.0	1.0	0.088	0.99					
	111527	125.0	126.0	1.0	0.054	0.58					
	111634	232.0	233.0	1.0	0.003	0.16					
	111635	233.0	234.0	1.0	0.026	0.26					
	111636	234.0	235.0	1.0	0.561	1.11	0.02	0.14	0.28	0.02	
CA89-66	111696	84.7	85.7	1.0	0.088	1.20					
	111714	107.5	108.5	1.0	0.503	0.08		0.04	3.60	0.02	
	111715	108.5	109.5	1.0	0.050	0.10					
	111716	109.5	110.5	1.0	0.037	0.12					
	111717	110.5	111.5	1.0	0.111	0.27		0.04	3.95	0.03	
	111718	111.5	112.5	1.0	0.381	0.79	0.32	0.57	2.03	0.33	
	111719	112.5	113.5	1.0	0.109	0.20	0.08	0.10	1.37	0.08	
CA89-67	42653	102.0	103.0	1.0	0.232	0.12					
	42654	103.0	104.0	1.0	0.402	0.39					
	42655	104.0	105.0	1.0	1.420	2.50					
	42656	105.0	106.0	1.0	1.010	14.71					
	42657	106.0	107.0	1.0		19.13					
	42658	107.0	108.0	1.0	0.190	8.21					
	42659	108.0	109.0	1.0	0.059	0.16					
	42660	109.0	110.0	1.0	0.013	0.14					
	42661	110.0	111.0	1.0	0.040	5.16					
	42669	118.0	119.0	1.0	0.035	4.24					
	42670	119.0	120.0	1.0	0.072	0.80					
	42671	120.0	121.0	1.0	0.191	5.56					
	42672	121.0	122.0	1.0	0.049	0.34					
	42686	135.0	136.0	1.0	0.073	0.21					
	42687	136.0	137.0	1.0	0.021	0.17					
	42688	137.0	138.0	1.0	0.061	0.57					
	42689	138.0	139.0	1.0	0.064	0.93					
	42690	139.0	140.0	1.0	0.052	1.47					
	42691	140.0	141.0	1.0	0.140	12.49					
	42692	141.0	142.0	1.0	0.286	3.64					
	42693	142.0	143.0	1.0	0.092	1.67					
	42694	143.0	144.0	1.0	0.015	0.59					
	42695	144.0	145.0	1.0	0.081	2.58					
	42696	145.0	146.0	1.0	0.126	9.80					
	42697	146.0	147.0	1.0	0.047	1.07					
CA89-68	42874	105.0	106.0	1.0	0.058	0.11					
	42875	106.0	107.0	1.0	0.387	2.51					

HOLE	SAMPLE	FROM (m)	TO (m)	INTERVAL (m)	Au (OZ/ST)	Ag (OZ/ST)	Pb (%)	Zn (%)	As (%)	Sb (%)	Hg (%)
CA89-68	42876	107.0	108.0	1.0	0.163	5.61					
	42898	129.0	130.0	1.0	0.067	0.34					
	42899	130.0	131.0	1.0	0.076	0.61					
	42900	131.0	132.0	1.0	0.031	0.78					
	42901	132.0	133.0	1.0	0.140	13.18					
	42902	133.0	134.0	1.0	0.077	2.87					
CA89-69	43125	135.0	136.0	1.0	0.131	0.67					
	43126	136.0	137.0	1.0	0.044	0.31					
	43127	137.0	138.0	1.0	0.078	0.59					
	43128	138.0	139.0	1.0	0.146	0.30					
	43129	139.0	140.0	1.0	0.058	0.14					
	43130	140.0	141.0	1.0	0.065	0.11					
	43131	141.0	142.0	1.0	0.105	0.10					
CA89-70	111883	147.3	148.3	1.0	0.048	1.05					
	111884	148.3	149.3	1.0	0.114	0.21	0.02	0.05	0.07	0.02	
	111885	149.3	150.3	1.0		0.02					

SECTION 3

PRELIMINARY STATISTICS

FOR

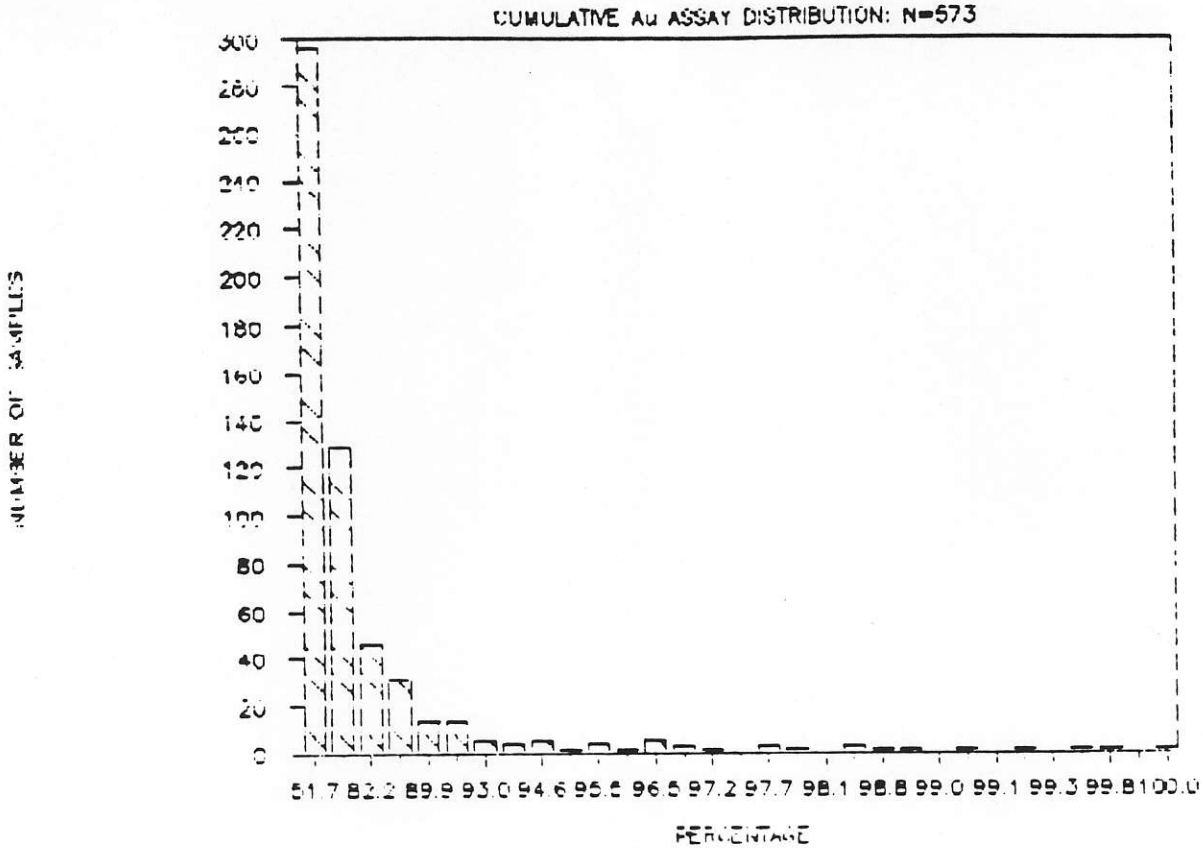
SIGNIFICANT MINERALIZED INTERVALS

CA88-02 TO CA89-70

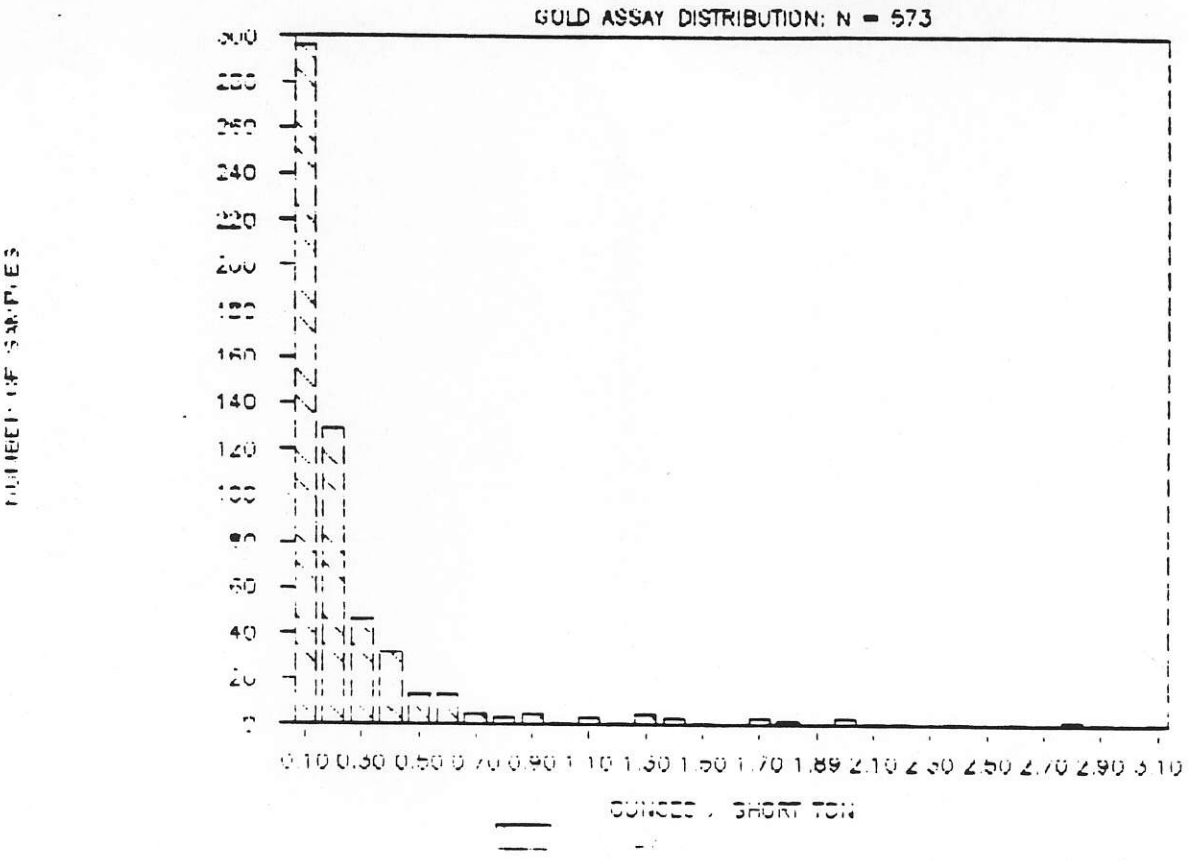
GOLD ASSAY DISTRIBUTION: CALPINE 1988-1989

OZ/SHORT TN FROM	TO	NO OF SAMPLES	CUM #	CUM %
0.00	0.10	296	296	51.7
0.10	0.20	129	425	74.2
0.20	0.30	46	471	82.2
0.30	0.40	31	502	87.6
0.40	0.50	13	515	89.9
0.50	0.60	13	528	92.1
0.60	0.70	5	533	93.0
0.70	0.80	4	537	93.7
0.80	0.90	5	542	94.6
0.90	1.00	1	543	94.8
1.00	1.10	4	547	95.5
1.10	1.20	1	548	95.6
1.20	1.30	5	553	96.5
1.30	1.40	3	556	97.0
1.40	1.50	1	557	97.2
1.50	1.60	0	557	97.2
1.60	1.70	3	560	97.7
1.70	1.80	2	562	98.1
1.80	1.89	0	562	98.1
1.90	2.00	3	565	98.6
2.00	2.10	1	566	98.8
2.10	2.20	1	567	99.0
2.20	2.30	0	567	99.0
2.30	2.40	1	568	99.1
2.40	2.50	0	568	99.1
2.50	2.60	1	569	99.3
2.60	2.70	0	569	99.3
2.70	2.80	2	571	99.7
2.80	2.90	1	572	99.8
2.90	3.00	0	572	99.8
3.00	3.10	1	573	100.0
TOTAL		573		

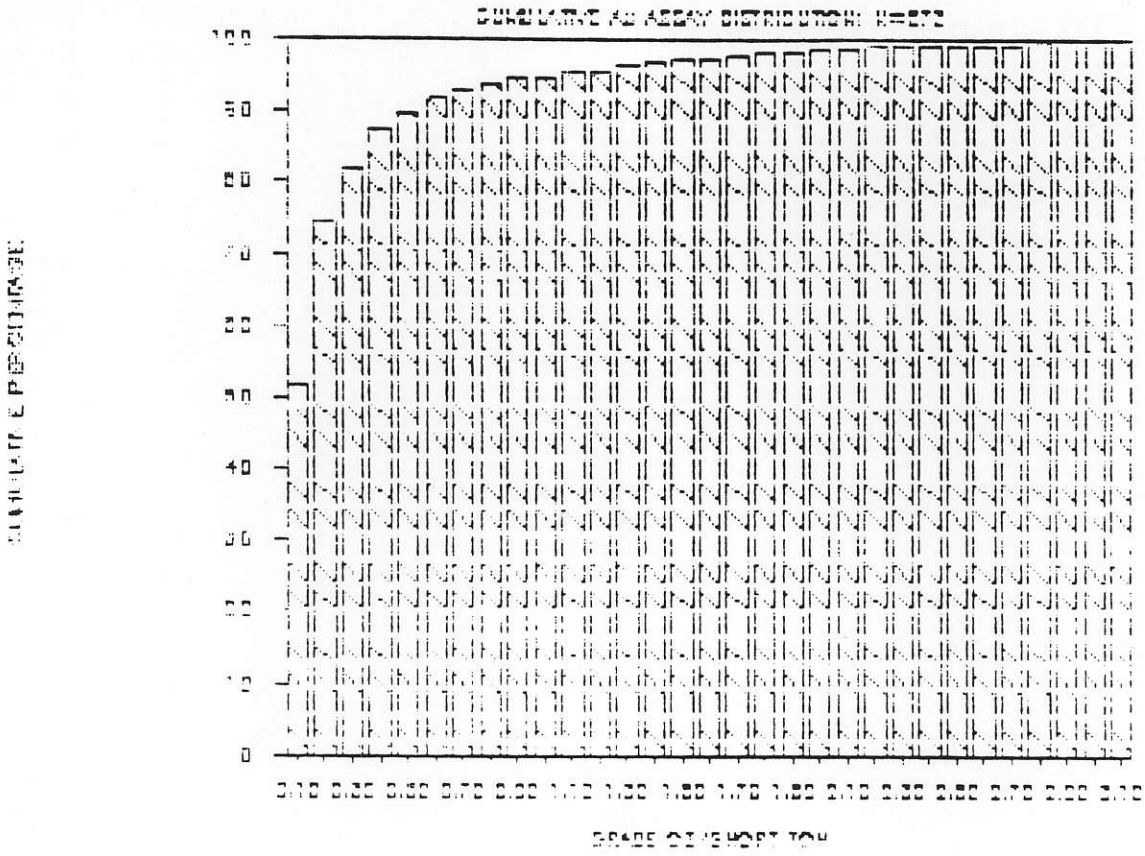
CALPINE 1988–1989 DRILL RESULTS



CALPINE 1988—1989 DRILL RESULTS



GALPINE 1988-1989 DRILL RESULTS



REGRESSION VALUES FOR GOLD, SILVER, AND BASE METALS

GOLD/SILVER
Regression Output:

Constant	0.2094
Std Err of Y Est	0.3992
R Squared	0.0335
No. of Observations	580
Degrees of Freedom	578
X Coefficient(0.0088	
Std Err of Coe0.0019	

GOLD/ARSENIC
Regression Output:

Constant	0.2907
Std Err of Y Est	0.4268
R Squared	0.2990
No. of Observations	290
Degrees of Freedom	288
X Coefficient(0.0603	
Std Err of Coe0.0054	

GOLD/LEAD
Regression Output:

Constant	0.3824
Std Err of Y Est	0.5437
R Squared	0.0004
No. of Observations	245
Degrees of Freedom	243
X Coefficient(-0.003	
Std Err of Coe0.0106	

GOLD/ANTIMONY
Regression Output:

Constant	0.3790
Std Err of Y Est	0.5064
R Squared	0.2475
No. of Observations	171
Degrees of Freedom	169
X Coefficient(0.0405	
Std Err of Coe0.0054	

GOLD/ZINC
Regression Output:

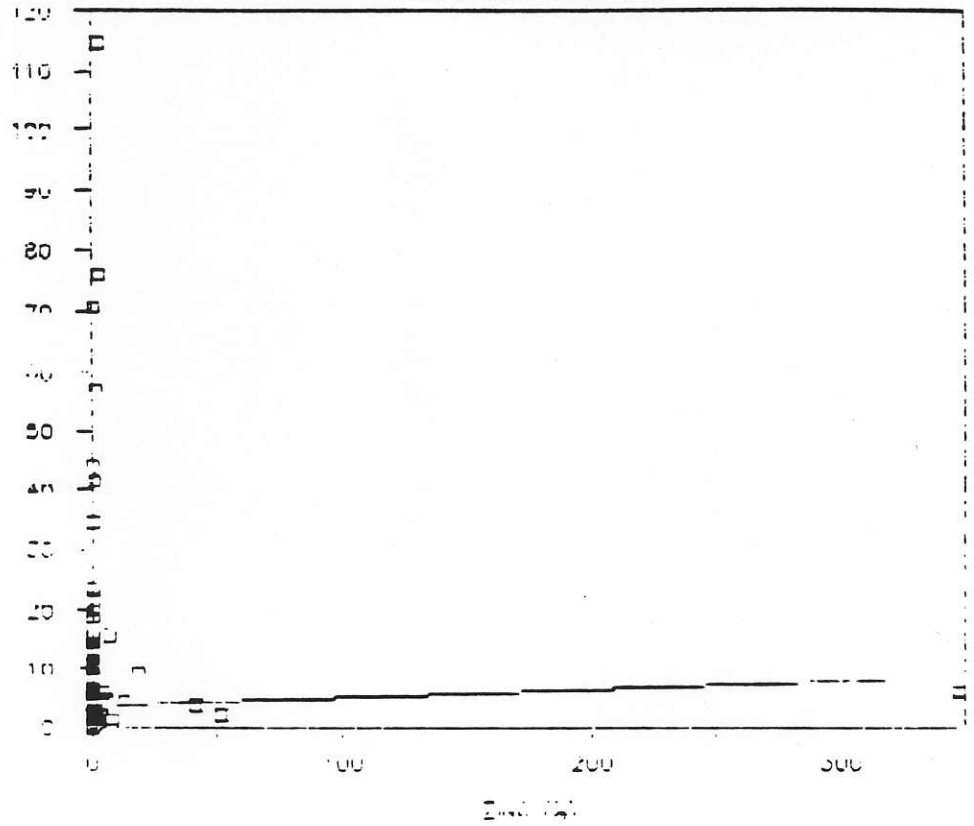
Constant	0.3620
Std Err of Y Est	0.5159
R Squared	0.0001
No. of Observations	282
Degrees of Freedom	280
X Coefficient(0.0099	
Std Err of Coe0.0463	

SILVER/ZINC
Regression Output:

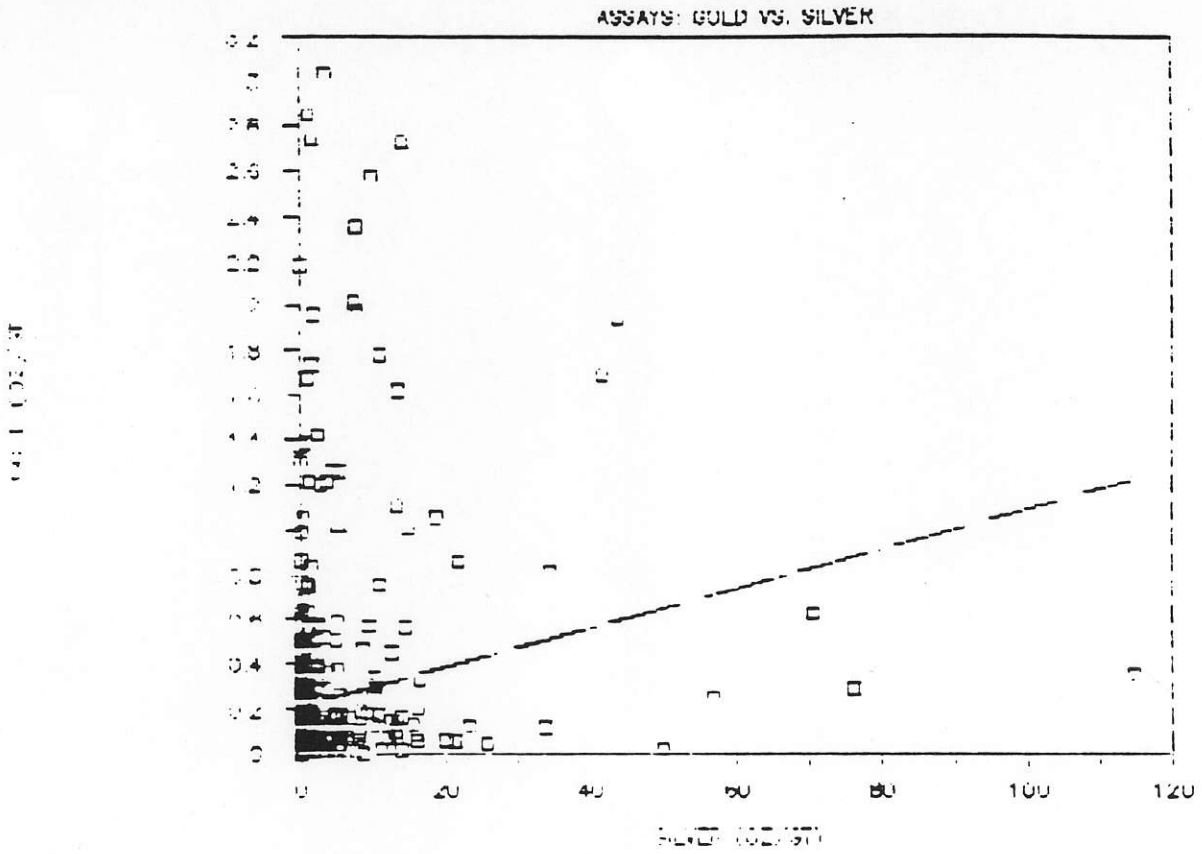
Constant	3.7392
Std Err of Y Est	10.867
R Squared	0.0007
No. of Observations	289
Degrees of Freedom	287
X Coefficient(0.0143	
Std Err of Coe0.0307	

CALPINE 1988–1989 DRILL RESULTS

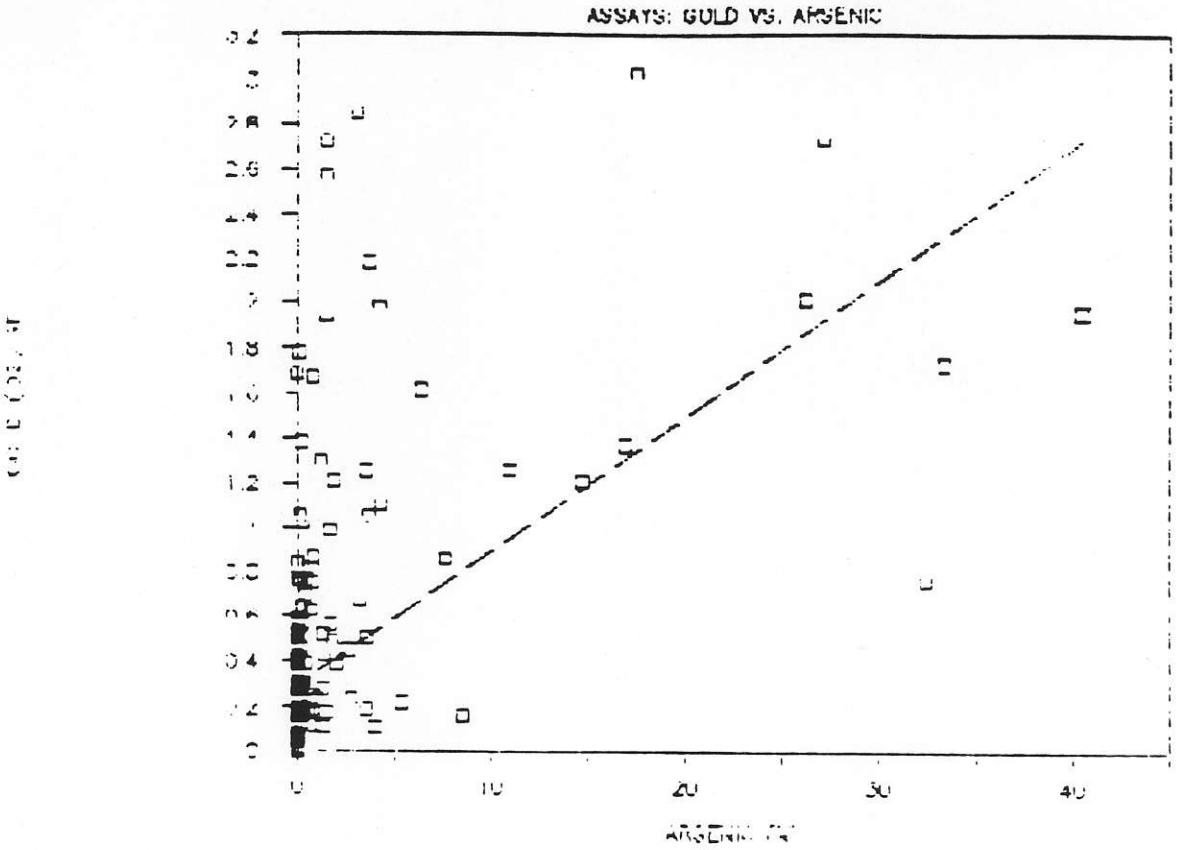
ASSAYS: SILVER VS. ZINC



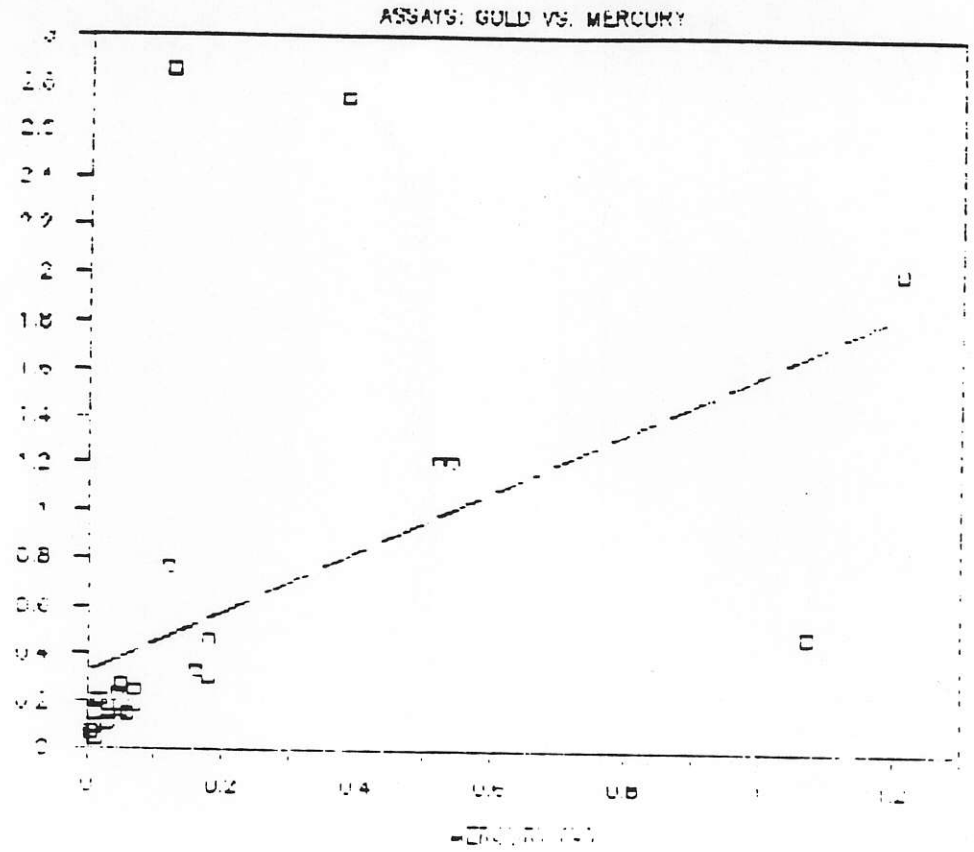
CALPINE 1988—1989 DRILL RESULTS



CALPINE 1988—1989 DRILL RESULTS

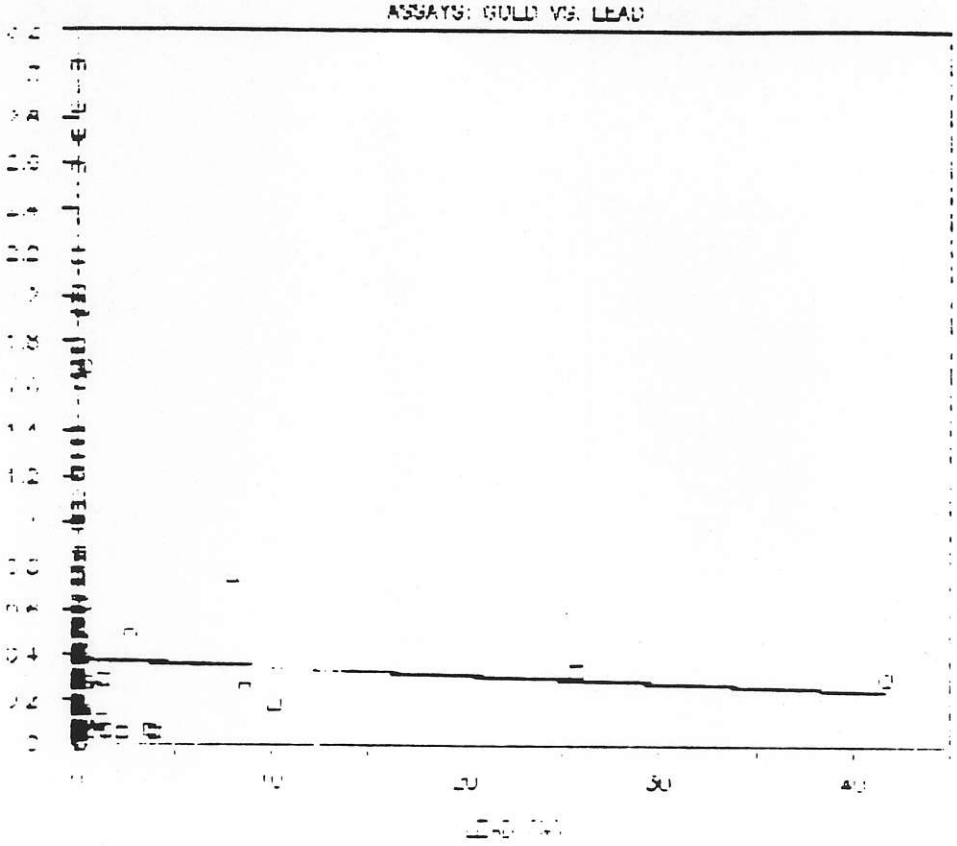


CALPINE 1988—1989 DRILL RESULTS



CALPINE 1988–1989 DRILL RESULTS

ASSAYS: GOLD VS. LEAD



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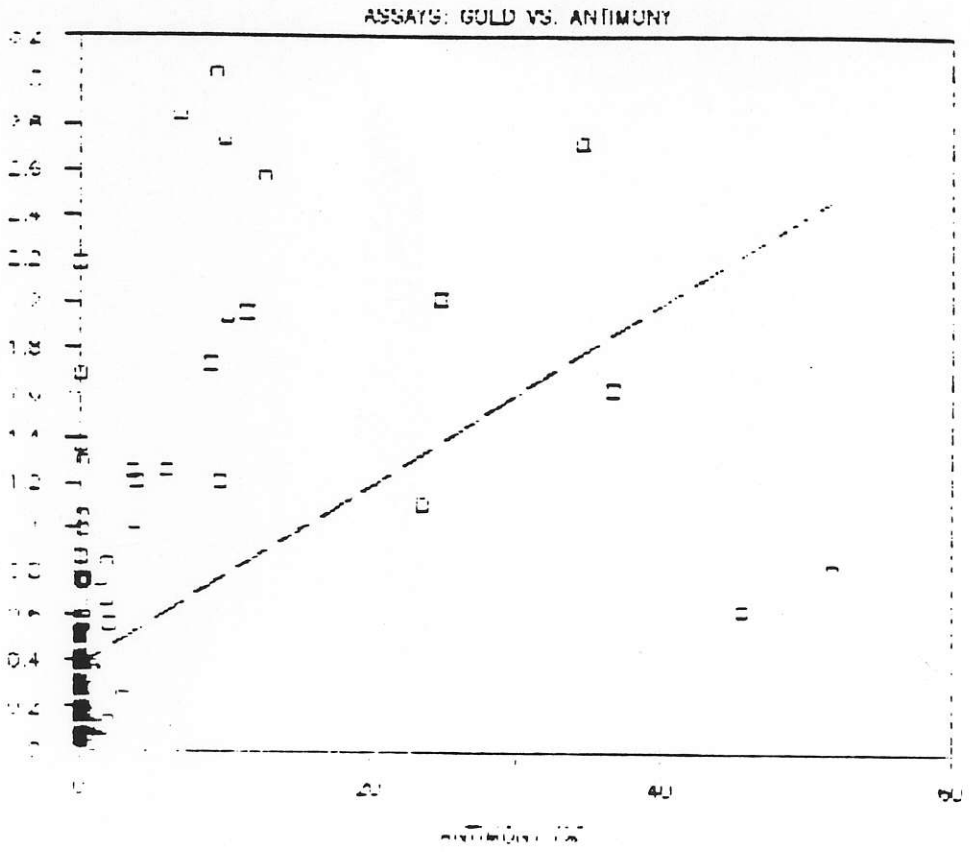
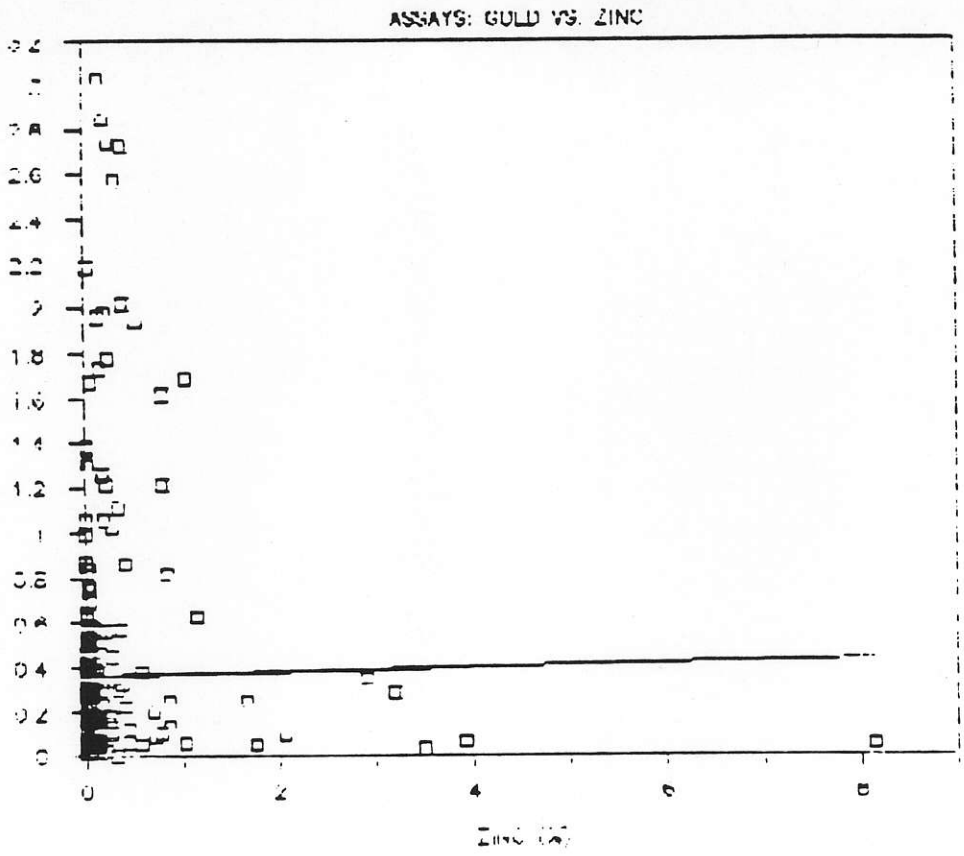


CALPINE 1988—1989 DRILL RESULTS



Appendix VI

Specific Gravity Results

Procedure for the specific gravity measurements is as follows:

> "Approximately 40 to 50 grams of sample ground to 10 mesh are carefullly introduced into 200 ml wide-neck flask containing about 60 millilitres of distilled water. The weight is recorded. The flask is filled to the mark with water at the same temperature and weighed. The specific gravity may then be calculated from the following formula:

$$\frac{a - c}{(a-c) + b - d}$$

a) represents the weight of the sample plus weight of flask partially filled with water;
b) flask weight, filled with water to the 200 ml mark;
c) flask weight, partially filled with water;
d) flask weight, containing the sample and filled to the mark with water."

The results are tabulated in the following tables:

CALPINE RESOURCES INCORPORATED - Drill Hole Assays 1989. Page 1 * duplicate result

DDH Number	SAMPLE Number	*	INTERVAL (Metres) from	to	Core Length	*	INTERVAL (Feet) from	to	Core Length	*	Au opt	Ag opt	Pb %	Zn %	Cu %	As %	Sb %	SG
CA89-17	37612	*	91.5	93.0	1.5	*	300.12	305.04	4.92	*	0.002	0.03						2.7
	37613	*	93.0	94.5	1.5	*	305.04	309.96	4.92	*	0.002	0.02						2.8
CA89-17	37623	*	108.0	109.5	1.5	*	354.24	359.16	4.92	*	0.050	0.12						2.7
	37624	*	109.5	111.0	1.5	*	359.16	364.08	4.92	*	0.129	0.16	0.01	0.04	<0.01	0.07	0.02	2.7
	37625	*	111.0	112.5	1.5	*	364.08	369.00	4.92	*	0.416	0.16	0.01	0.04	<0.01	0.06	0.03	2.7
CA89-17	107501	*	112.5	114.0	1.5	*	369.00	373.92	4.92	*	0.107	0.06	0.01	0.02	<0.01	0.09	0.03	2.8
	107502	*	114.0	115.5	1.5	*	373.92	378.84	4.92	*	0.050	<0.02						2.7
	107503	*	115.5	117.0	1.5	*	378.84	383.76	4.92	*	0.272	<0.02	0.01	0.01	<0.01	0.03	0.01	2.7
	107504	*	117.0	118.5	1.5	*	383.76	388.68	4.92	*	0.587	0.21	0.01	0.03	<0.01	0.04	0.30	2.8
	107505	*	118.5	120.0	1.5	*	388.68	393.60	4.92	*	0.839	1.52	0.02	0.04	<0.01	0.02	1.85	2.7
	107506	*	120.0	121.5	1.5	*	393.60	398.52	4.92	*	0.396	0.20	0.01	0.02	<0.01	0.07	0.15	2.7
	107507	*	121.5	123.0	1.5	*	398.52	403.44	4.92	*	0.114	0.02	0.01	0.02	<0.01	0.05	0.03	2.7
	107508	*	123.0	124.5	1.5	*	403.44	408.36	4.92	*	0.023	<0.02						2.7
	107509	*	124.5	126.0	1.5	*	408.36	413.28	4.92	*	0.005	0.02						2.7
	107510	*	126.0	127.5	1.5	*	413.28	418.20	4.92	*	0.003	0.02						2.7
	107511	*	127.5	129.0	1.5	*	418.20	423.12	4.92	*	<0.002	<0.02						2.7
	107512	*	129.0	130.5	1.5	*	423.12	428.04	4.92	*	<0.002	<0.02						2.7
	107544	*	177.0	178.5	1.5	*	580.50	585.48	4.92	*	<0.002	0.05						2.8
	107545	*	178.5	180.0	1.5	*	585.48	590.40	4.92	*	0.082	0.06						2.8
	107546	*	180.0	181.5	1.5	*	590.40	595.32	4.92	*	0.086	0.57	0.36	0.72	0.01	0.07	0.01	3.0
	107547	*	181.5	183.0	1.5	*	595.32	600.24	4.92	*	0.104	0.40	0.48	0.78	0.01	0.09	0.01	3.0
*	107547	*											0.46	0.76				
	107548	*	183.0	184.5	1.5	*	600.24	605.16	4.92	*	0.013	0.12	0.04	0.10	<0.01	0.01	<0.01	2.9
	107549	*	184.5	186.0	1.5	*	605.16	610.08	4.92	*	0.007	0.05						2.8
	107550	*	186.0	187.5	1.5	*	610.08	615.00	4.92	*	0.008	0.10						2.9

DDH Number	SAMPLE Number	INTERVAL (Metres) from	to	Core Length	INTERVAL (Feet) from	to	Core Length	Au opt	Ag opt	Pb %	Zn %	Cu %	As %	Sb %	SG
CA89-23	108227	43.5	45.0	1.5	142.68	147.60	4.92	0.002	0.06						2.7
	108228	45.0	46.5	1.5	147.60	152.52	4.92	0.002	0.05						2.7
	108229	46.5	48.0	1.5	152.52	157.44	4.92	0.006	0.08						2.7
	108230	48.0	49.5	1.5	157.44	162.36	4.92	0.371	0.27	<0.01	0.02	<0.01	0.12	0.80	2.7
	108231	49.5	51.0	1.5	162.36	167.28	4.92	0.014	0.17						2.7
	108232	51.0	52.5	1.5	167.28	172.20	4.92	0.117	0.09	<0.01	0.06	<0.01	0.90	0.04	2.7
	108233	52.5	94.0	1.5	172.20	177.12	4.92	0.131	0.02	<0.01	0.02	<0.01	0.61	0.03	2.8
	108234	54.0	55.5	1.5	177.12	182.04	4.92	0.301	0.05	<0.01	0.01	<0.01	0.37	0.03	2.8
	108235	55.5	57.0	1.5	182.04	186.96	4.92	0.862	0.10	<0.01	0.01	<0.01	0.83	0.11	2.7
	108236	57.0	58.5	1.5	186.96	191.88	4.92	1.301	0.13	<0.01	0.03	<0.01	1.24	0.21	2.8
	108237	58.5	60.0	1.5	191.88	196.80	4.92	1.621	13.44	0.15	0.80	0.04	6.36	36.63	3.5
	108238	60.0	61.5	1.5	196.80	201.72	4.92	1.262	4.52	0.02	0.20	0.01	10.95	5.95	3.1
	108239	61.5	83.0	1.5	201.72	206.64	4.92	1.736	1.60	0.01	0.16	0.01	33.33	9.00	3.2
	108240	63.0	64.5	1.5	206.64	211.56	4.92	0.782	0.82	<0.01	0.05	<0.01	12.44	1.45	3.0
	108241	64.5	66.0	1.5	211.56	216.48	4.92	0.158	0.90	0.01	0.02	<0.01	8.52	0.59	2.8
	108242	66.0	67.5	1.5	216.48	221.40	4.92	0.016	0.15						2.7
	108243	67.5	69.0	1.5	221.40	226.32	4.92	0.015	0.10						2.8
	108244	69.0	70.5	1.5	226.32	231.24	4.92	0.016	0.09						2.7
	108245	70.5	72.0	1.5	231.24	236.16	4.92	0.051	0.13						2.7
	108246	72.0	73.5	1.5	236.16	241.08	4.92	0.239	1.54	0.03	0.17	<0.01	0.08	2.99	2.8
	108247	73.5	75.0	1.5	241.08	246.00	4.92	0.074	4.39						2.8
	108248	75.0	76.5	1.5	246.00	250.92	4.92	0.561	1.21	0.02	0.02	<0.01	0.04	0.30	2.8
	108249	76.5	78.0	1.5	250.92	255.84	4.92	0.248	2.09	0.10	0.18	0.01	0.03	0.06	2.8
	108250	78.0	79.5	1.5	255.84	260.76	4.92	0.054	21.22						2.8
	108251	79.5	81.0	1.5	260.76	265.68	4.92	0.061	2.85						2.8
	108252	81.0	82.5	1.5	265.68	270.60	4.92	0.076	13.25						2.8
	108253	82.5	84.0	1.5	270.60	275.52	4.92	0.009	0.16						2.7
	108254	84.0	85.5	1.5	275.52	280.44	4.92	0.009	0.22						2.7
	108255	85.5	87.0	1.5	280.44	285.36	4.92	0.030	0.43						2.7
	108256	87.0	88.5	1.5	285.36	290.28	4.92	0.027	0.75						2.8
	108257	88.5	90.0	1.5	290.28	295.20	4.92	0.012	0.28						2.8
	108258	90.0	91.5	1.5	295.20	300.12	4.92	0.007	0.23						2.8
	108259	91.5	93.0	1.5	300.12	305.04	4.92	0.008	0.29						2.8
	108260	93.0	94.5	1.5	305.04	309.96	4.92	0.016	0.23						2.8
	108261	94.5	96.0	1.5	309.96	314.88	4.92	0.014	0.12						2.7
	108262	96.0	97.5	1.5	314.88	319.80	4.92	0.012	0.30						2.7
	108263	97.5	99.0	1.5	319.80	324.72	4.92	0.008	0.05						2.7

DDH Number	SAMPLE Number	INTERVAL (Metres) from	to	Core Length	INTERVAL (Feet) from	to	Core Length	Au opt	Ag opt	Pb %	Zn %	Cu %	As %	Sb %	SG
	108264	99.0	100.5	1.5	324.72	329.64	4.92	0.010	0.06						2.7
	108265	100.5	102.0	1.5	329.64	334.56	4.92	0.005	0.02						2.7
	108266	102.0	103.5	1.5	334.56	339.48	4.92	0.004	0.05						2.7
	108267	103.5	105.0	1.5	339.48	344.40	4.92	<0.002	<0.02						2.7
CA89-23	108302	156.0	157.5	1.5	511.68	516.60	4.92	<0.002	<0.02						2.7
	108303	157.5	159.0	1.5	516.60	521.52	4.92	<0.002	<0.02						2.7
	108304	159.0	160.5	1.5	521.52	526.44	4.92	0.048	0.14						3.0
	108305	160.5	162.0	1.5	526.44	531.36	4.92	0.110	0.14	0.13	0.14	0.01	0.05	0.02	3.2
	108306	162.0	163.5	1.5	531.36	536.28	4.92	0.252	0.29	0.41	0.86	0.08	0.07	0.03	3.2
	108307	163.5	165.0	1.5	536.28	541.20	4.92	0.142	0.14	0.02	0.04	<0.01	0.06	0.02	3.5
	108308	165.0	166.5	1.5	541.20	546.12	4.92	0.173	0.10	<0.01	<0.01	<0.01	0.01	0.01	2.9
	108309	166.5	168.0	1.5	546.12	551.04	4.92	0.008	0.02						2.9
	108310	168.0	169.8	1.8	551.04	556.94	5.90	0.003	<0.02						2.8

CALPINE RESOURCES INCORPORATED - Drill Hole Assays 1989. Page 1 * duplicate result

DDH Number	SAMPLE Number	*	INTERVAL (Metres) from	to	Core Length	*	INTERVAL (Feet) from	to	Core Length	*	Au opt	Ag opt	Pb %	Zn %	Cu %	As %	Sb %	SG
CA89-28	108739	*	60.1	61.6	1.5	*	197.13	202.05	4.92	*	0.002	0.02						2.9
	108740	*	61.6	63.1	1.5	*	202.05	206.97	4.92	*	0.003	<0.02						2.9
	108741	*	63.1	64.8	1.7	*	206.97	212.54	5.58	*	0.015	0.02						2.9
	108742	*	64.8	66.2	1.4	*	212.54	217.14	4.59	*	2.181	0.04	0.01	0.04	<0.01	3.69	0.03	2.9
*	108742	*														3.68		
	108743	*	66.2	67.7	1.5	*	217.14	222.06	4.92	*	0.987	0.21	0.01	0.01	<0.01	1.68	0.20	2.8
*	108743	*														1.64		
	108744	*	67.7	69.0	1.3	*	222.06	226.32	4.26	*	0.674	0.38	0.02	0.02	<0.01	3.19	1.90	2.8
*	108744	*														3.09	1.88	
	108745	*	69.0	70.4	1.4	*	226.32	230.91	4.59	*	1.051	0.49	0.02	0.02	<0.01	3.67	0.24	2.8
*	108745	*														3.20		
	108746	*	70.4	71.8	1.4	*	230.91	235.50	4.59	*	1.375	0.04	0.02	0.03	<0.01	16.89	0.09	3.1
*	108746	*														16.90		
	108747	*	71.8	73.4	1.6	*	235.50	240.75	5.25	*	0.190	0.05	0.09	0.02	<0.01	3.56	0.02	2.8
*	108747	*														3.64		
	108748	*	73.4	74.9	1.5	*	240.75	245.67	4.92	*	0.036	0.03						2.7
	108749	*	74.9	76.3	1.4	*	245.67	250.26	4.59	*	0.005	0.02						2.7
	108750	*	76.3	77.7	1.4	*	250.26	254.86	4.59	*	0.002	0.02						2.7
	108751	*	77.7	79.1	1.4	*	254.86	259.45	4.59	*	0.002	<0.02						2.7

CALPINE RESOURCES INCORPORATED - Drill Hole Assays 1989.

DDH Number	SAMPLE Number	INTERVAL (Metres) from	to	Core Length	INTERVAL (Feet) from	to	Core Length	Au opt	Ag opt	Pb %	Zn %	Cu %	As %	Sb %	SG
CA89-54	110260	87.0	88.5	1.5	285.36	290.28	4.92	<0.002	<0.02						2.9
	110261	92.0	93.5	1.5	301.76	306.68	4.92	<0.002	<0.02						3.0
	110262	96.0	97.5	1.5	314.88	319.80	4.92	<0.002	<0.02						2.9
	110263	97.5	99.0	1.5	319.80	324.72	4.92	<0.002	<0.02						2.8
	110264	99.0	100.5	1.5	324.72	329.64	4.92	0.014	0.06						2.8
	110265	100.5	102.0	1.5	329.64	334.56	4.92	0.048	0.16						2.8
	110266	102.0	103.5	1.5	334.56	339.48	4.92	0.091	0.18						2.7
	110267	103.5	105.0	1.5	339.48	344.40	4.92	0.053	0.48						2.7
	110268	105.0	106.5	1.5	344.40	349.32	4.92	0.317	0.52	0.01	0.01	0.01	0.03	0.02	2.7
	110269	106.5	108.0	1.5	349.32	354.24	4.92	0.049	0.20						2.7
	110270	108.0	109.5	1.5	354.24	359.16	4.92	0.079	0.25						2.7
	110271	109.5	111.0	1.5	359.16	364.08	4.92	0.385	1.35	0.03	0.12	0.01	0.04	0.04	2.8
	110272	111.0	112.5	1.5	364.08	369.00	4.92	0.428	2.31	0.03	0.09	0.01	0.04	0.03	2.8
	110273	112.5	114.0	1.5	369.00	373.92	4.92	0.067	0.34						2.7
	110274	114.0	115.5	1.5	373.92	378.84	4.92	0.140	0.73	0.03	0.06	<0.01	0.02	0.02	2.7
	110275	115.5	117.0	1.5	378.84	383.76	4.92	0.217	0.49	<0.01	<0.01	<0.01	0.03	0.01	2.8
	110276	117.0	118.5	1.5	383.76	388.68	4.92	0.473	0.82	0.02	0.04	<0.01	0.01	0.01	2.8
	110277	118.5	120.0	1.5	388.68	393.60	4.92	0.005	0.03						2.7
	110278	120.0	121.5	1.5	393.60	398.52	4.92	0.026	0.16						2.7
	110279	121.5	123.0	1.5	398.52	403.44	4.92	0.007	0.03						2.7
	110280	123.0	124.5	1.5	403.44	408.36	4.92	0.016	0.04						2.7
	110281	124.5	126.0	1.5	408.36	413.28	4.92	0.015	0.19						2.7
	110282	126.0	127.5	1.5	413.28	418.20	4.92	0.009	0.48						2.7
	110283	127.5	129.0	1.5	418.20	423.12	4.92	0.012	0.82						2.7
	110284	129.0	130.5	1.5	423.12	428.04	4.92	0.004	0.02						2.7
	110285	130.5	132.0	1.5	428.04	432.96	4.92	0.006	0.03						2.8