ASSESSMENT REPORT

ON THE

ESKAY CREEK PROPERTY

DRILL EXPLORATION PROGRAM

Kay 15 Claim

Skeena Mining Division
NTS 104B/9W
Latitude 56°37'N
Longitude 130°29'W
British Columbia

July 14, 1989

by

D.W. Mallo
Prime Explorations Ltd.

Owner:

CONSOLIDATED STIKINE SILVER LTD.
800-900 West Hastings Street
Vancouver, British Columbia
V6C 1E5

Operator:

CALPINE RESOURCES INCORPORATED
PRIME CAPITAL PLACE
10th Floor,
808 West Hastings Street
Vancouver, British Columbia
V6C 2X6

ESKAY CREEK PROJECT

TABLE OF CONTENTS

INTRODUCTION

Objective

The objective of the 1989 drill programme on the Eskay Creek Project was to test the property for gold and silver mineralization at depth. This report presents data on four holes that were drilled for a total of 838.4 metres on the Kay 15 claim.

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 the Prime Resources Corporation and Cominco Limited SNIP Deposit. Access is by helicopter from Bronson, Stewart or Bell II on the Stewart-Cassiar Highway, 25 kilometers east. Tom MacKay 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 short 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. One such corridor would pass within 20 kilometers of the project area.

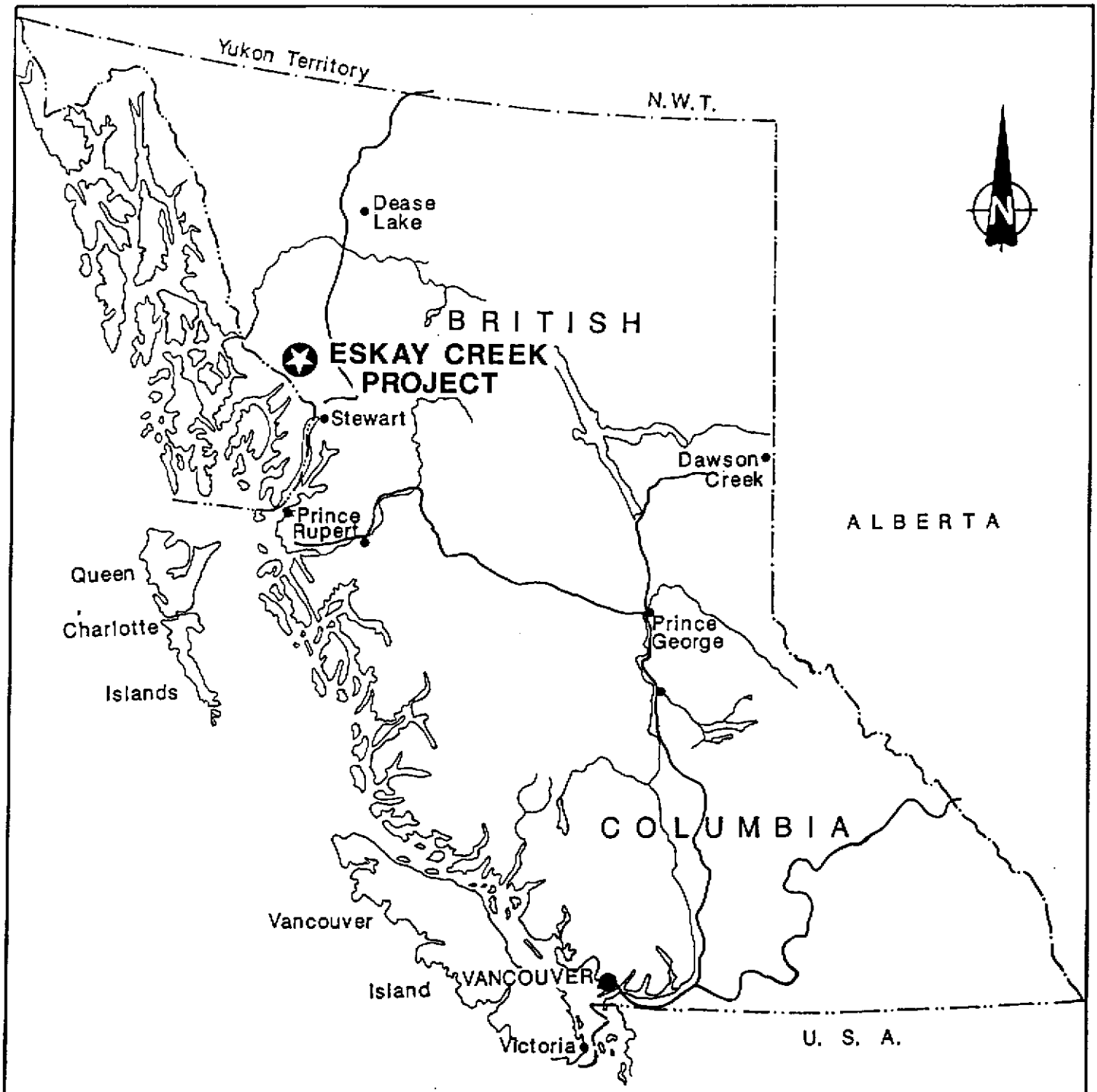
Physiography

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 subalpine 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 kilometers 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 exceeds 300 mm, much of which falls as snow. Summer conditions last from late June to the end of September, 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



PRIME EXPLORATIONS LTD.

CALPINE RESOURCES INC.

ESKAY CREEK PROJECT

LOCATION MAP

Date: Oct. 1988

Drafted by: E.R.

FIGURE: 1

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 region immediately east is usually dominated by an arctic high pressure cell, which can become extremely well-entrenched, resulting in outflow conditions which can see both prolonged spells of cold, dry weather and high wind conditions.

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 development projects are underway within the region, and the current exploration programme at Eskay has clearly demonstrated that cost-effective winter exploration campaigns can be mounted.

Claims

The Eskay Creek Property consists of thirty 2-post mineral claims located in the Skeena Mining Division (Figure 2). 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

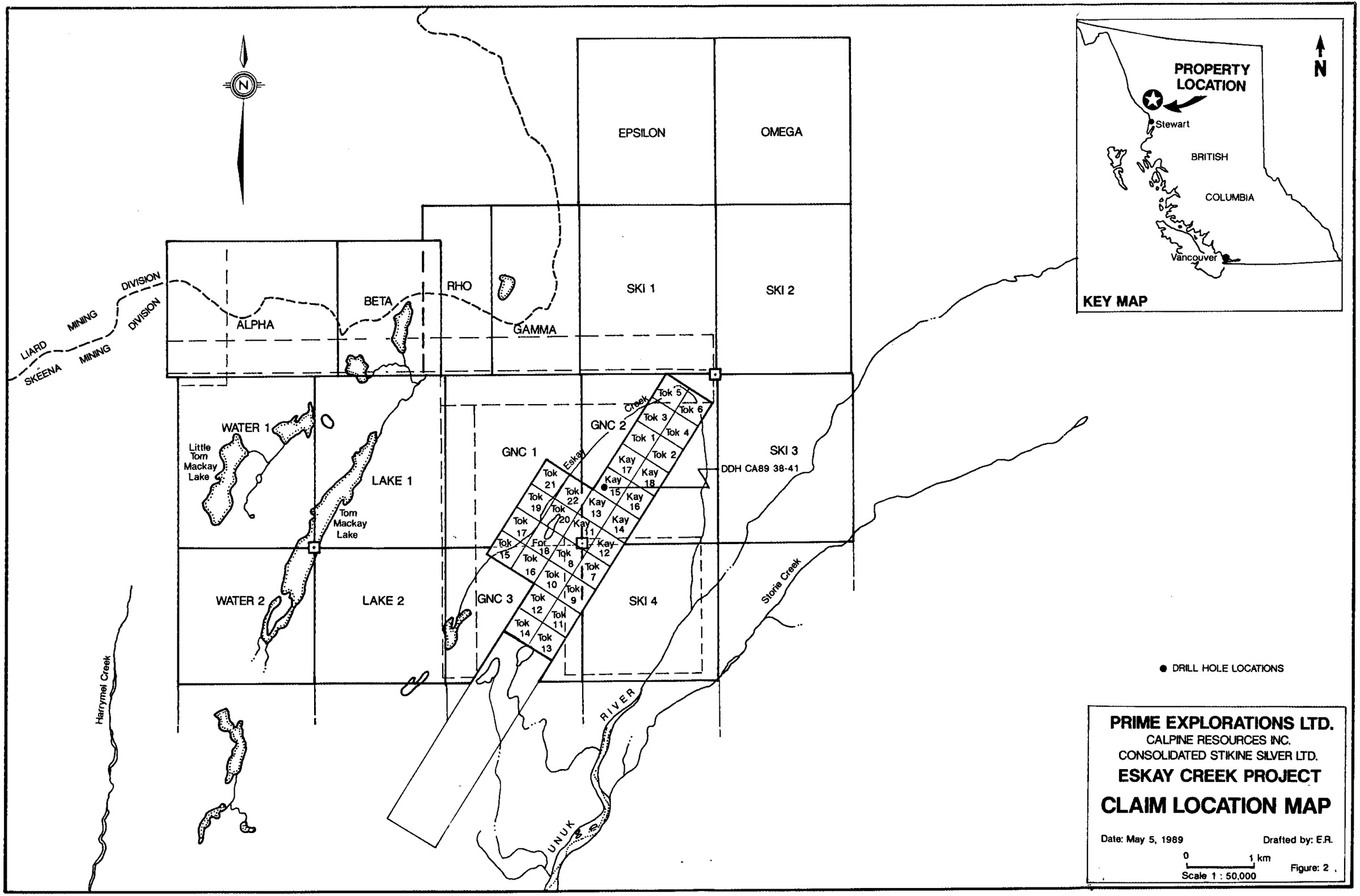
History

The Eskay Creek area has undergone numerous exploration campaigns since discovery in 1932. The property is now operated on a joint venture basis between Calpine Resources Incorporated and Consolidated Stikine Silver Limited, with Prime Explorations Ltd. as the Project Manager.

Drilling

A winter drill exploration programme was initiated in mid-January of 1989 and completed in early May comprising 13,467.9 metres in 54 holes of NQ core. The drilling was done under contract by Falcon Drilling Ltd, of Prince George, British Columbia. All core was logged, split and stored on site at the Calpine camp.

Drill holes CA89-38 to 41 inclusive are submitted for this assessment report. Each drill hole has a length of approximately 200 metres with a lithology consisting of interlayered andesites and black argillites in the top part of each hole, and rhyolites and felsic volcanics bottoming the holes.


EPSILON
OMEGA
SKI 1
SKI 2
SKI 3
SKI 4
ALPHA
BETA
RHO
GAMMA
GNC 1
GNC 2
GNC 3
WATER 1
WATER 2
LAKE 1
LAKE 2
Little Tom Mackay Lake
Tom Mackay Lake
LIARD MINING DIVISION
SKEENA MINING DIVISION
Harrymel Creek
Eskay Creek
Storie Creek
UNUK RIVER
DDH CA89 38-41
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Kay 18
PROPERTY LOCATION
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Stewart
BRITISH COLUMBIA
Vancouver
KEY MAP
DRILL HOLE LOCATIONS
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
Figure: 2

The split core samples were sent to Bondar-Clegg Laboratories in North Vancouver for gold and silver assays. Selected pulps were sent to TSL Laboratories, Saskatoon, for check analysis. Core samples sent to Bondar Clegg were fire assayed with an AA finish for Au and Ag using a one assay ton sample size. If the gold value was >0.100 ounce per ton, then the sample was re-assayed with a gravimetric finish. Samples with >.750 ounce per ton Au were analyzed for metallic gold (metallic sieve assay). Analytical procedures are shown in Appendix I.

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

Core logging and splitting was done under the supervision of G. McArthur. A list of contractors is shown in Appendix II and statement of qualifications is shown in Appendix III. The drill logs, assays and drill hole plan map and Au cross section for holes CA89-38 to 41 are shown in Appendix IV.

The statement of Expenditures is in Appendix V.

GEOLOGY

Regional Geology

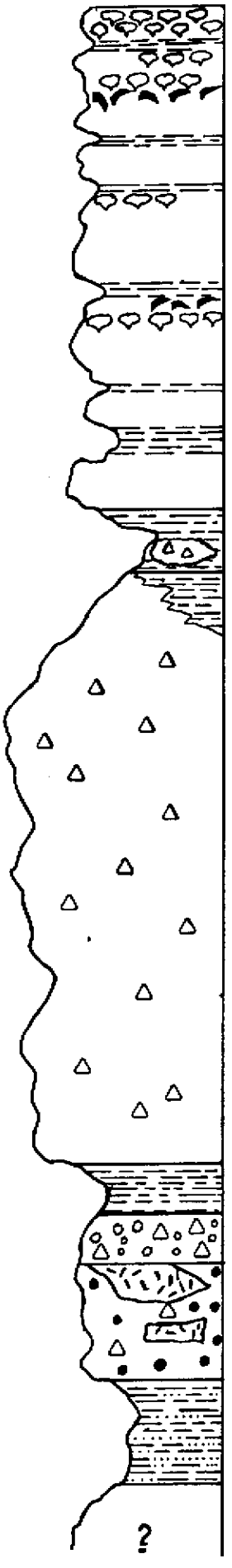
The Eskay Creek area lies within the Intermontane tectonic belt, containing Stikine terrane rock assemblages. The Unuk River area is underlain by a thick, weakly metamorphosed Upper Triassic to Lower Jurassic volcanic and sedimentary arc-related units overlain by Middle Jurassic successor basin sedimentary 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 3). 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 Triassic volcanic and sedimentary rocks tentatively correlated to the Stuhini Group occur east of the Unuk River and

STRATIGRAPHIC COLUMN - 21 ZONE



PILLOWED ANDESITES, PILLOW BRECCIAS

HYALOCLASTITE

MUDSTONE, black, pyrite-rich, fossiliferous

ANDESITE SILLS AND FLOWS
ANDESITE CRACKLE BRECCIA

HANGINGWALL ANDESITE UNIT
0 - 140m

GRAPHITIC ARGILLITE

CONTACT ZONE 0 - 12m

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

DACITE TUFF

FOOTWALL DACITE UNIT
50 - 200m

LITHIC TUFF

MUDSTONE with minor GREYWACKE

?

VERTICAL SCALE 1:1000

FIGURE: 3

west of Harrymel Creek. 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.

APPENDIX I

Analytical Procedures - Bondar-Clegg Ltd., Vancouver

PROCEDURE FOR ASSAY Au ANALYSIS

Fire Assay Procedure:

A prepared sample of one assay ton (29.166 grams) is mixed with a flux which is composed mainly of lead oxide. The proportions of the flux components (the litharge, soda, silica, borax glass and flour) are adjusted depending upon the nature of the sample. Silver is added to help collect the gold. The samples are fused at 1950^{O}F until a clear melt is obtained. The 30-40 gram lead button that is produced contains the precious metals. It is then separated from the slag. Heating in the cupellation furnace separates the lead from the noble metals. The normal-sized precious metal beads that are produced are transferred to test tubes and dissolved with aqua-regia. This solution is analyzed using Atomic Absorption by comparing the absorbance of these solutions with that of standard solutions. In case of high grade samples, the precious metal bead is parted to separate the silver and the remaining gold is weighed.

Comments:

As part of routine quality control duplicate analyses are done for about 15% of the samples. Also, all samples which are over 0.20 ounce per ton on the original fusion are run again to verify the results. If a sample gives erratic results, such as 0.10, 0.020, 0.30, these are indicated on the report. It is suggested that a new split should be taken from the reject for preparation and analysis by metallics sieve procedure. These assay results will always be signed by the registered assayer.

PROCEDURE FOR ASSAY Cu, Pb, Zn, AND Ag BY ATOMIC ABSORPTION ANALYSIS

Samples of 0.5 grams are weighed with 0.25 gram duplicates and digested in glass beakers with concentrated nitric and hydrochloric acids. The beakers are heated on the hot plate until the solution completely dries, and then the samples are redissolved with dilute hydrochloric acid. The solutions are run by Atomic Absorption, using the appropriate lamp and wavelength for each element. The absorbency for each element is recorded and compared to a standard series to determine the amount present.

The procedure is similar for assay Ag by Atomic Absorption, except the sample weight is 3 grams and hydrofluoric acid is also added during the digestion. Background correction is introduced in analyzing Ag on the A.A. to overcome the matrix problem.

Comments:

All samples having a value greater than 20% Cu or Pb, 10% Zn, or 10 ounces per ton Ag have to be rerun by classical methods.

APPENDIX I

Analytical Procedures

BIBLIOGRAPHY

Aldrick, D.J., Britton, J.M., Webster, I.C.L. and Russell, C.W.P., (1989); Geology and Mineral Deposits of the Unuk Area, B.C. GSB Open File Map 1989-10

Annual Reports of the Minister of Mines, British Columbia; 1933, p 61; 1934, pp B30-B33; 1935, pp B9, B27; 1939, p 65; 1946, p 85; 1953, pp 87-89; 1963, p 10; 1964, p 20; 1965, p 44; 1967, p 30

Britton, J.M., Webster, I.C.L., Aldrick, D.J. (1988); Unuk Map Area; in B.C. Ministry of Energy Mines & Petroleum Resources, Geological Fieldwork, Paper 89-1

Donnelly, D.A. (1976); A Study of the Volcanic Stratigraphy and Volcanogenic Mineralization on the KAY Claim Group, Northwestern British Columbia, Unpubl. B.Sc. Thesis, UBC 54 pages

Geology, Exploration & Mining in British Columbia; (1970), pp 64-65; and (1971) p 36

Grove, E.W. (1986); Geology and Mineral Deposits of the Unuk River-Salmon River-Anyox area. British Columbia Department of Energy, Mines and Petroleum Resources, Bulletin No. 63

Grove, E.W. (1971); Geology and Mineral Deposits of the Stewart area, Northwestern British Columbia Department of Energy, Mines and Petroleum Resources, Bulletin No. 58

Tipper, W., and Richards, T.A. (1976); Jurassic Stratigraphy and History of North-Central British Columbia, Geological Survey of Canada, Bulletin No. 270

Creek Fault). The major structure on the property appears to be a shallow northeast plunging asymmetric anticline. Fold limbs are either faulted and/or steeply dipping. The Eskay Creek Property is characterized by highly altered and gossanous rhyolitic units which host several gold-silver and minor base metal occurrences.

Gold mineralization is hosted within both rhyolite breccia and graphitic mudstone formations, beneath barren andesite flows. Disseminated stibnite is ubiquitous to the mudstone unit, developing into high grade massive stibnite-realgar bands up to 20 feet thick at the mudstone-rhyolite contact. Footwall alteration is intense, comprising sericite and gypsum in highly sheared rhyolite tuff and breccia. Associated sulphide minerals include stibnite, arsenopyrite and pyrite.

Steeply dipping faults and associated fractures appear to be a major controlling feature of the mineralization. Mechanically induced fracture systems formed channels which divided the mineralizing hydrothermal fluids. This produced the pattern of high grade ore zones surrounded by overlapping lower grade zones. Secondary control of gold mineralization was provided by host rock lithology.

RECOMMENDATION

Additional drilling needs to be done in order to delineate the extent of gold/silver mineralization. This should be done in conjunction with a summer exploration programme consisting of geological mapping, prospecting, and geophysical surveys to define additional drill targets.

(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 subaqueous depositional environment. Units 1 to 3 are tentatively correlated to the Betty Creek Formation, unit 4 to the Mt. Dillworth 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 030/75-80W. 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 (Argillite 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 suspected to represent faults, though some may be joints. Plans by Whiting 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 north in the Bronson Creek area, and may reflect the presence of low-angle reverse faults and\or post-mineral extension fissures.

CONCLUSIONS

The Eskay Creek Property is underlain by Lower to Middle Jurassic volcanic and sedimentary rocks of the Hazelton Group separated from the nearby Triassic Bowser Group of marine-basin sediments by a possibly deep-seated fault structure (Argillite

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.

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 vertical fault under Clouter 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. 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:

APPENDIX II

Contractor Services

APPENDIX II

Contractor Services

CONTRACTOR	
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
Northern Mountain Air Ltd. P.O. Box 368 Prince George, British Columbia V2L 4S2	Transportation - Helicopter

APPENDIX III

Certificate of Qualifications

APPENDIX III

Certificate of Qualifications

I, David W. Mallo of 4775 Hermatige Drive, Vancouver, British Columbia hereby certify:

1. I am a graduate of Brandon University (1981) and hold a BSc (Spec) degree in geology.

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

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

David W. Mallo
Senior Geologist

DATED at Vancouver, British Columbia, this 14th day of July, 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.

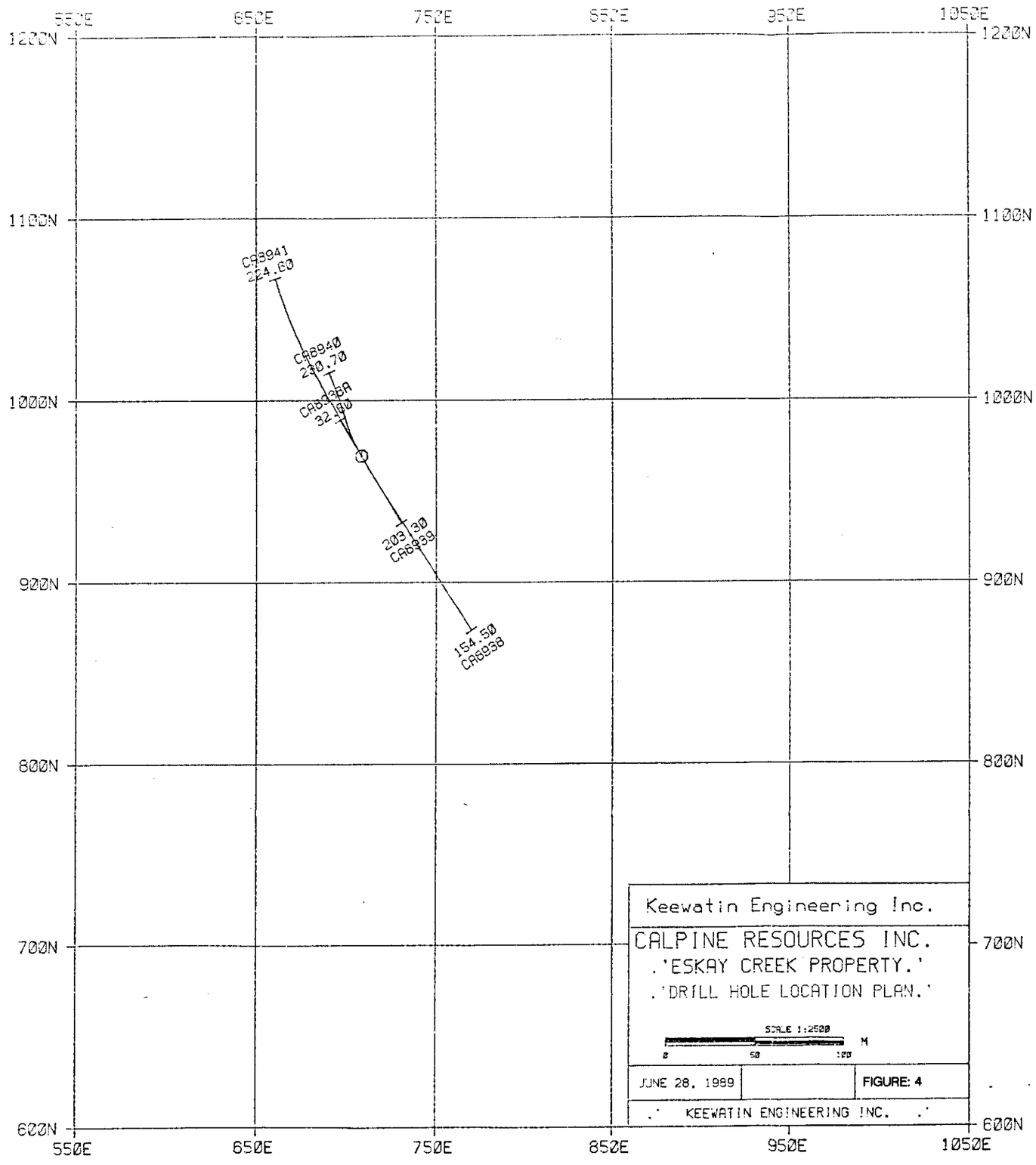
Gerald F. McArthur
Geologist

DATED at Vancouver, British Columbia, this 26 th day of June, 1989

APPENDIX IV

Diamond Drill Summary

Diamond Drill Logs and Assays
Drill-Au Section 1:1000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CA8940
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CA8939A
32.00
203.30
CA8939
154.50
CA8938
Keewatin Engineering Inc.
CALPINE RESOURCES INC.
.'ESKAY CREEK PROPERTY.'
.'DRILL HOLE LOCATION PLAN.'
SCALE 1:2500
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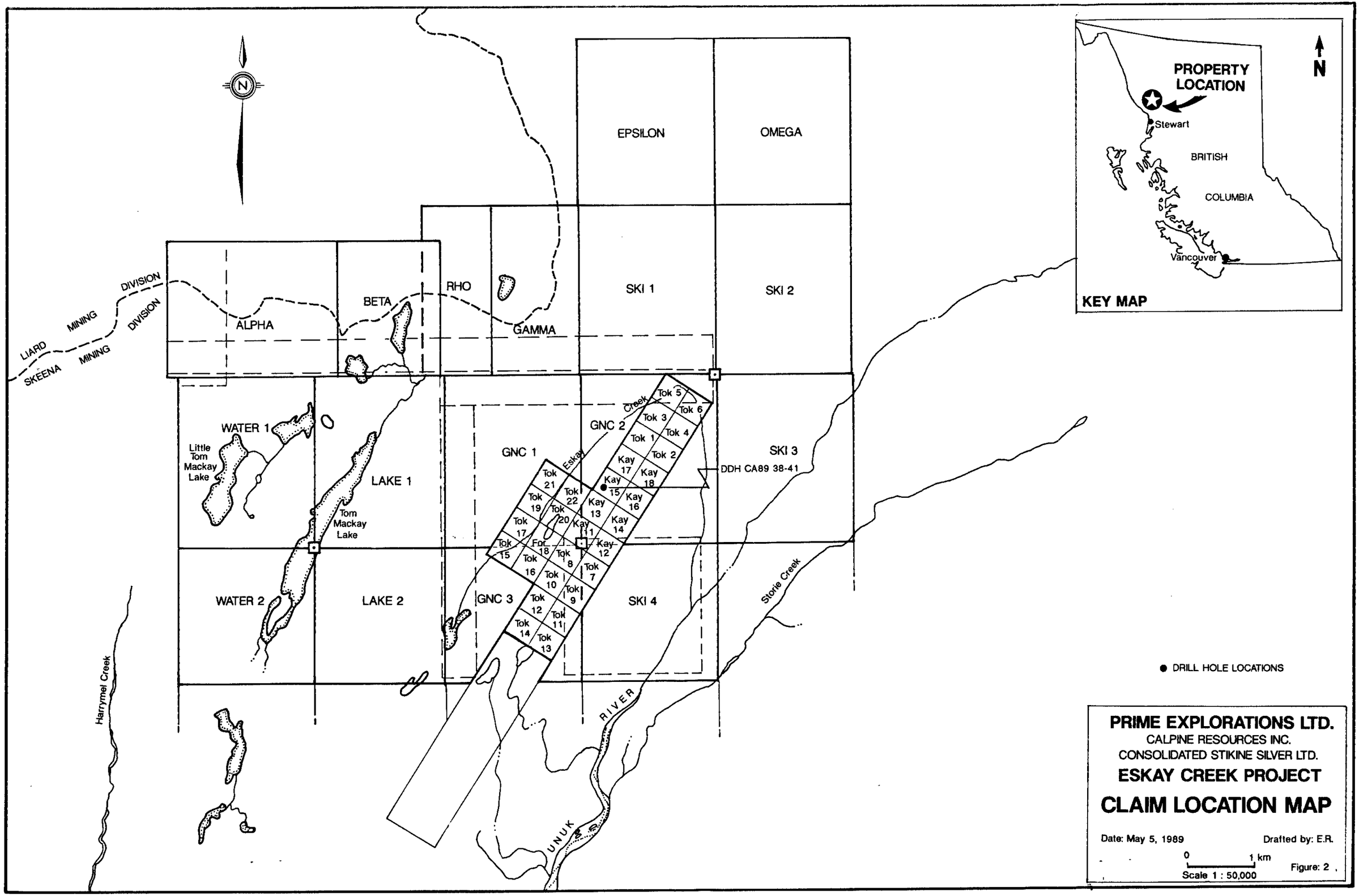
100
JUNE 28, 1989
FIGURE: 4
.' KEEWATIN ENGINEERING INC. .'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ESKAY CREEK PROJECT
CLAIM LOCATION MAP
Date: May 5, 1989
Drafted by: E.R.
0 1 km
Scale 1 : 50,000
Figure: 2

DRILL HOLE LOG

LOCATION: 969.451N 708.697E

HOLE NO.: CA-89-38 PAGE NO: 1

AZIM.: 150
DIP: 45°
ELEV.: 99.1 m
LENGTH: 154.4 m
CORE LENGTH: NQ

DIP TEST

Meterage	Dip	Azimuth
48.8 m	-42°	147°

PROPERTY:

CLAIM NO.:
SECTION: 2+50S
LOGGED BY: GF. McArthur
DATED LOGGED: March 9/89
DRILLING CO.: Falcon
ASSAYED BY: Bondar Clegg

STARTED: March 7-8/89
COMPLETED: March 10/89 - lost hole
PURPOSE: test zone upper tier holes

CORE RECOVERY: Lost hole in fault unable to reenter for survey below 50 m

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		HANGING WALL ANDESITE													
0	4.0	OB CASING - no recovery													
14.0	78.3	UPPER ANDESITE	109350	5.3	9.5	4.2		<0.002		<0.02					
		- andesite fine grained brown-greenish	109351	3.8	5.3	1.5		<0.002		<0.02					
		- white calcite veining	109352	10.5	11.1	0.6		<0.002		<0.02					
		- crackle breccia filling	109353	14.8	16.3	1.5		<0.002		<0.02					
		- several (4) calcite events different	109354	23.5	25.0	1.5		<0.002		<0.02					
		color white (black-dol?)	109355	26.0	27.5	1.5		<0.002		<0.02					
		- interbedded with black argillite	109356	30.8	31.3	0.5		<0.002		<0.02					
		- pyrite lam beds	109357	36.0	38.0	2.0		<0.002		<0.02					
		4.0 - 4.7	109358	40.5	42.0	1.5		<0.002		<0.02					
		- crackle breccia with internal white	109359	42.0	43.5	1.5		<0.002		<0.02					
		calcite remmed by xline black-brown	109360	43.5	45.0	1.5		<0.002		<0.02					
		calcite vein 20° to core axis	109361	45.0	46.5	1.5		<0.002		<0.02					
		7.2 - 7.	109362	46.5	48.0	1.5		<0.002		<0.02					
		- calcareous vein breccia	109363	48.0	49.5	1.5		0.002		<0.02					
		7.4 7.5	109364	49.5	51.0	1.5		0.002		<0.02					
		- calcite fracture 15 - 20° to core	109365	51.0	52.5	1.5		<0.002		<0.02					
		axis	109366	52.5	54.0	1.5		0.002		<0.02					
		8.2	109367	54.0	55.5	1.5		<0.002		<0.02					
		- grey calcite breccia	109368	55.5	57.0	1.5		<0.002		<0.02					
		- oxidized rubble	109369	57.0	58.5	1.5		<0.002		<0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		8.5	109370	58.5	60.0	1.5		<0.002		<0.02					
		- grey calcite breecia with	109371	60.0	62.0	2.0		<0.002		<0.02					
		hyaloclastite-mafic glass shards &	109372	62.0	63.5	1.5		<0.002		<0.02					
		andesite breccia fragments	109373	63.5	65.0	1.5		0.002		<0.02					
		9.0	109374	65.0	66.5	1.5		<0.002		<0.02					
		- andesite pillow amydules & chill	109375	66.5	68.0	1.5		<0.002		<0.02					
		margin	109376	68.0	69.5	1.5		<0.002		<0.02					
		9.3 - 11.9	109377	69.5	71.0	1.5		<0.002		<0.02					
		- argillite unit	109378	71.0	72.5	1.5		<0.002		<0.02					
		- black fine grained bedded	109379	72.5	74.0	1.5		<0.002		<0.02					
		9.8	109380	74.0	75.5	1.5		<0.002		<0.02					
		- white calcite veins 75° to core axis	109381	75.5	77.0	1.5		<0.002		<0.02					
		9.85 - 10.07													
		- grey limestone black argillite fragments 60° to core axis													
		10.2													
		- fracture 60° to core axis													
		10.3													
		- pyrite bed 80° to core axis													
		- pyrrhotite blades along beddding plane													
		10.4 - 11.0													
		- rubbly oxidized section calcite vein alternation 80° to core axis													
		11.2													
		- fracture 15° to core axis													
		11.5													
		- calcite fracture 30° to core axis													
		11.8													
		- contact													
		- calcareous breccia													
		11.8 - 14.7													
		- light brown andesite													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- dark green chloritic veins with calcite & pale green mineral, interval 50° to core axis													
	14.3														
		- calcite vein 45° to core axis cut by calcite-quartz 60° to core axis													
14.7	16.4														
		- argillite unit, bedding 50° to core axis													
	14.7														
		- oxidized calcite vein													
	15.3														
		- pyrite													
	15.4														
		- pyrrhotite blade													
	15.8														
		- bedding 50° to core axis, calcite vein 30° to core axis, calcite vein 80° to core axis													
16.25	16.4														
		- calcareous xlite zone													
16.5	26.0														
		- andesite													
		- crackle breccia white-black calcite													
19.4	22.0														
		- broken ground & oxidized													
22.5															
		- calcite vein dark grey rims													
23.5															
		- 2 cm calcite vein 55° to core axis													
24.2															
		- ribbon banded grey-white calcite vein 50° to core axis, white calcite vein 75° to core axis - 70° to core axis													
26.0	26.7														
		- argillite													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm

- calcite vein 65 - 70° to core axis
- calcareous zone 60° to core axis

26.7 - 30.0
- andesite
- grey white calcite crackle breccia
- black shale chips

27.2
- calcite vein 60° to core axis

27.3 - 28
- crackle breccia with argillite chips

30 - 30.9
- andesite green brown with grey & white crackle breccia

30.9 - 31.2
- black argillite chip breccia
- grey calcareous matrix
- argillite with andesite fragments
- trace pyrrhotite blades

31.2 - 31.9
- green brown andesite with grey calcite crackle breccia

31.9 - 32.3 Andesite
- black matrix white calcareous angular fragments
- bladed pyrrhotite 3 - 5%

32.3
- andesite

32.6 - 33.0
- grey calcite crackle breccia & white calcite vein 15° to core axis

33.0
- oxidized fractured zone

33.5 - 34.9
- crackle breccia grey calcite
- black argillite chips

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm

34.9 - 38.7
- oxidized broken ground
- andesite, calcite vein

38.7
- oxidized & broken ground
- andesite breccia black matrix argillaceous

40.2
- conglomerate

41.3
- calcite crackle breccia

41.7
- pyrrhotite blade in black matrix andesite breccia

42.0 - 42.6
- grey calcite breccia
- minor black argillite chips

43.0 - 43.1
- conglomerate fragments rounded in black argillite matrix

43.25 - 43.6
- bedded crystallite (crinoids?) 45° to core axis

43.6 - 44.5
- amydules in Andesite volcanic-pillows
- argillite chip grey calcite crackle breccia

45.5 - 46.5 Andesite
- grey calcite crackle breccia

46.5 - 48.5 Andesite
- crackle breccia

48.5 - 54.8
- andesite with zones of grey calcite crackle breccia
- black argillite chips in breccia

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		54.8 - 57.6 - black cherty argillite 45° to core axis with andesite breccia fragments - disseminated pyrrhotite blades 57.6 - 60.1 - green brown andesite breccia grey calcite matrix, black cherty argillite chips 60.1 - 62.2 - cherty argillite, bedding 45° to core axis, 60° to core axis, 50° to core axis 62.2 - 66.0 - andesite breccia, with grey calcite crackle breccia, chilled volcanic amydolidal													
66.0	77.7	- andesite unit with argillaceous interbed, cherty - brown fine grained - amydules calcareous - interanal calcite crackle breecia 77.2 dark grey black calcite - crackle breccia filling 66..4, 67, 70 - 71, 68.5 - calcareous matrix - vuggy vein 66.6, 67.3, 40° to core axis, 25° to core axis - vein 66.7, 20° to core axis, 35° to core axis													
77.77	78.3	- argillite bedded 77.7 - contact 45° to core axis 78.3 - 77.8 - bedding 85° to core axis	109382	77.0	78.5	1.5		0.002		0.04					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		78.2 - 45° to core axis - pyritic layers 60° to core axis - calcite veining 15° to core axis - base of argillite is cherty													
78.8	154.4	FELSIC VOLCANIC UNIT - fine to coarse ash tuffs - large flow banded or fine siliceous flow - fragments 60 cm range - some glassy sections - possible coarse to fining upward	109383	78.5	80.0	1.5		<0.002		<0.02					
78.3	79.5	- siliceous greyish rhyolite fine ash tuff 1 - 2 cm fragments - oxidized - broken ground, fault													
79.5	84.0	- grey matrix supported, banded fragments 2 - 4 cm - light greenish harder fragments - blocky subrounded	109384 109385 109386	80.0 81.5 83.0	81.5 83.0 84.5	1.5 1.5 1.5		<0.002 0.004 0.003		0.03 0.05 0.05					
84.0	84.4	- greenish matrix light green clasts matrix soft - fine grained 1 - 2 cm fragments													
84.4	87.0	- coarse grained 2 - 5 cm fragments	109387 109388	84.5 86.0	86.0 87.5	1.5 1.5		0.003 0.003		0.06 0.14					
87.0	87.4	- matrix supported 70% matrix													
87.4	87.5	- fine ash, 45° to core axis	109389	87.5	89.0	1.5		0.008		0.10					
87.5	91.7	- ash tuff, matrix supported 89.5 - 9 - closely packed fragments	109390	89.0	90.5	1.5		0.010		1.75					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
91.7	92.0	- fine ash, 50° to core axis	109391	90.5	92.0	1.5		0.006		0.11					
			109392	92.0	93.5	1.5		0.003		0.06					
92.0	95.7	- fragments 2 - 4 cm greenish	109393	93.5	95.0	1.5		0.006		0.13					
		95.7 - 93	109394	95.0	96.5	1.5		0.002		0.19					
		- blotchy light green calcareous	109395	96.5	98.0	1.5		0.003		0.11					
		alteration	109396	98.0	99.5	1.5		0.004		0.06					
		93 - 95.6	109397	99.5	101.0	1.5		0.002		0.02					
		- ash tuff, fragments 2 cm	109398	101.0	102.5	1.5		0.002		0.06					
		95.6 - 96.6	109399	102.5	104.0	1.5		<0.002		0.23					
		- coarsering, fragments to 6 cm grey	109400	104.0	105.5	1.5		0.002		0.16					
		96.6 - 97.5	109401	105.5	107.0	1.5		<0.002		0.23					
		- finer grained ash, bedding 45° to core	109402	107.0	108.5	1.5		0.002		0.06					
		axis	109403	108.5	110.0	1.5		0.002		0.17					
		97.5 - 99.5	109404	110.0	111.5	1.5		0.005		0.69					
		- coarser ash tuff, 1 - 2 cm fragments	109405	111.5	113.0	1.5		0.015		0.76					
		99.5 - 99.7	109406	113.0	114.5	1.5		0.002		0.08					
		- matrix dominant dark grey	109407	114.5	116.0	1.5		0.003		0.09					
		99.7 - 100	109408	116.0	117.5	1.5		0.008		0.73					
		- coarser ash, more fragments, 1 - 2 cm	109409	117.5	119.0	1.5		0.003		0.03					
		100 - 100.1	109410	119.0	120.5	1.5		0.002		0.02					
		- fine ash, 45° to core axis	109411	120.5	122.0	1.5		<0.002		0.02					
		100.1 - 101	109412	122.0	123.5	1.5		0.002		0.03					
		- ash tuff, - 1 - 2 cm fragments	109413	123.5	125.0	1.5		<0.002		0.03					
		101 - 102	109414	125.0	126.5	1.5		<0.002		0.03					
		- matrix dominant ash tuff	109415	126.5	128.0	1.5		<0.002		0.04					
		102 - 103	109416	128.0	129.5	1.5		<0.002		0.03					
		- ash tuff	109417	129.5	131.0	1.5		<0.002		0.02					
		103 - 105	109418	131.0	132.5	1.5		<0.002		0.02					
		- fine grained section	109419	132.5	134.0	1.5		0.002		0.03					
		105 - 111	109420	134.0	135.5	1.5		0.002		0.03					
		- ash tuff, 2 - 6 cm fragments	109421	135.5	138.0	2.5		0.002		0.03					
		111 - 124	109422	138.0	139.5	1.5		0.002		0.02					
		- fine ash, 1 cm or less, occasional	109423	139.5	141.0	1.5		0.003		0.03					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		fragments to 2 cm, mineralized fractures	109424	141.10	142.5	1.5		0.002		0.04					
		splaherite, pyrite disseminated pyrite	109425	142.5	144.0	1.5		<0.002		0.02					
		in matrix	109426	144.0	145.5	1.5		<0.002		0.02					
		111 - 112	109427	145.5	147.0	1.5		<0.002		0.03					
		- dark grey matrix	109428	147.0	148.5	1.5		0.002		0.02					
		112 - 115.6	109429	148.5	150.0	1.5		0.002		0.02					
		ash, angular to rounded, 2 - 4 cm	109430	150.0	151.5	1.5		0.002		0.02					
		- veinlet with pale greenish mineral	109431	151.5	153.0	1.5		<0.002		0.02					
		60° to core axis	109432	153.0	154.5	1.5		<0.002		0.02					
		115.6 - 115.7													
		- heavy pyrite disseminated in matrix													
		115.6 - 117.5													
		- fine ash, matrix dominant, dark grey matrix													
		116													
		- sulfide disseminated pyrite													
		116.2													
		- fracture & veinlet 30 - 35° to core													
		axis													
		116.5													
		- sphalerite disseminated & pyrite													
		disseminate in matrix													
		116.9													
		- pyrite disseminations													
		117.3													
		- pyrite disseminations													
		117.4													
		- fabric in ash 45° to core axis													
118.4															
		- blotchy alternation													
119.9															
		- fabric 50° to core axis													
		- light grey white fragments in dark grey matrix													
		- fragments irregular to rounded													
121		- 124													
		- more grassy fragments													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		122 - minor veinlet 123.5 - minor veinlet 65° to core axis 123 - 133.8 - light greenish grey fragments in darker grey matrix - ash 2 - 4 cm 129 - 133.8 - coarse ash base fragments 6 - 8 cm 130.4 - broken ground 133.8 - 138.1 - dark grey fragments in dark grey sericitic matrix - foliation 50° to core axis - pyritic matrix 134.5 - calcite vein 50 - 60° to core axis 135.5 - calcite fracture 50 - 65° to core axis 138.1 - 147.8 - coarse ash tuff - light green fragments & glassy fragments subrounded in darker green matrix 142.2 - 15 cm fragments, flow banded 145 - 145.4 - siliceous grey fragment 40 cm 146.3 - 146.5 - 20 cm green grey siliceous fragment 147.8 - 148 - finer grained foliation 45° to core axis 148 - 154.4 - finer ash tuff													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- light grey green fragment in darker green matrix fragment 2 - 4 cm subrounded													
154.4		END OF HOLE - drill hole lost in fault													

DRILL HOLE LOG

LOCATION: 969.451N 708.697E

HOLE NO.: CA-89-39 PAGE NO: 1

AZIM.: 150
DIP: -77

ELEV.: 99.1 m
LENGTH: 203.3
CORE LENGTH: NQ

DIP TEST

Meterage	Dip	Azimuth
102.7 m	-78°	149°
203.3 m	-78°	149°

PROPERTY: Eskay Creek

CLAIM NO.:
SECTION: 2+50S
LOGGED BY: Christine Swanson
DATED LOGGED: March 12/89
DRILLING CO.: Fallon
ASSAYED BY: Bondar Clegg

STARTED:
COMPLETED:
PURPOSE:

CORE RECOVERY:

From	To	Description	Sample No.	ASSAYS From	To	Length	Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
0	3.0	CASING AND OVERBURDEN													
3.0	8.9	PILLOWED INTERMEDIATE VOLCANICS - maroon pillowed volcanics with pale green quench rinds - pillows from 0.5 to 0.8 m in depth along core length - rinds up to 1 cm wide - trace pyrrhotite along fractures at 75° to core axis and in matrix between pillows also 1% pyrite													
8.9	79.5	INTERMEDIATE VOLCANIC FLOWS AND INTERLAYERED BLACK ARGILLITES - Intermediate Volcanics (Andesites) - pale to medium green - aphanitic to fine grained phaneritic - locally amygdular - locally brecciated (crackle breccias) - occassional ?? chill margins - crackle breccia matrix: light grey calcite, 1-3% pyrite, 1-3% pyrrhotite, trace chlorite, trace epidote - Graphitic Argillites (mudstones) (euxinic shales)													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- dark grey to black - layer/bedding denoted by lighter, coarser grained, pyrite rich layers (3 - 5% pyrite) - lode casting indicating way-up direction (in up-hole direction) - lighter layers commonly 1 cm wide - darker, finer grained layers commonly 0.75 cm wide, occassionally up to 10 cm wide - crystallites occassionally seen in darker, thicker layers - occassional light grey calcareous layers													
8.9	9.1	- calcareous, dark grey, argillite layer - no layering													
9.1	13.9	- anderite crackle breccia - trace pyrrhotite, trace pyrite													
13.9	14.3	- calcareous, dark grey, layered argillite, layers at 40° to core axis													
14.3	19.6	- andesite flow locally brecciated													
19.6	22.0	- graphitic argillite - bedding at 65° to core axis													
22.0	23.6	- andesite crackle breccia													
23.6	24.3	- dark grey, layered calcareous graphitic argillite, layers at 45° to core axis													
24.3		- andesite flows, locally brecciated, trace pyrite, 1% pyrrhotite													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm

24.6 - 30.0
- rusted rubble zone as in 31.0 - 31.2 and 31.5 to 32.0

27.4 - 27.5
- calcite vein at 45° to core axis

46.5 to 46.7
- intense, oxidation zone
- slightly rubbly

49.7 - 54.5
- debris flow
- lithic wacke to 51.2
- medium grained
- devitified glass shards, abraded andesite and shaley fragments
- grades to argillite
- bedding at 50° to core axis
- andesite fragment from 51.3 to 51.7
- 1% pyrite, 2% pyrrhotite throughout

54.5 - 60.9
- andesite flows and crackle breccias
- trace pyrite, trace pyrrhotite

60.9 - 63.5
- andesite breccia with a calcareous argillite matrix
- trace pyrrhotite

63.5 - 64.8
- graphitic argillite
- bedding at 45° to core axis
- 5% andesite clasts in layers
- 1% pyrite in lighter layers

64.8 - 79.5
- andesite

66.1
- calcite vein at 25° to core axis

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		67.6 - calcite vein at 40° to core axis 68.8 - 70.7 - calcite veining sub-parallel to core axis - up to 3 cm wide 72.0 - 73.5 - aphanitic andesite blocks, pale green - 20 to 50 cm across looks somewhat like pillows without unaltered core 72.2 - 72.4 - quartz veining at 40° to core axis - 1 cm wide - 5 quartz veins over interval													
79.5	80.0	TRANSITION ZONE - dark green - clasts of paler green, chloritized rock (clasts up to 2 cm across - 5% - original fabric almost obliterated													
80.0	120.1	RHYOLITE UNIT 80.0 - 81.6 - intensely silicified lapilli tuff - trace pyrite 81.6 - 120.1 - moderatelly silicified rhyolite lapilli tuff units - 1 - 3% pyrite as coarse grained (>2 mm across) disseminations and blebs (up to 1.5 cm across) - 5% of clasts appear to have been argillically altered (clay altered) before being silicified - high fracture density (>1 per cm)													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- occassional oxidized fractures 84.2 - 84.8 - andesite pillows (dyke) - about 10 cm across - marroon cores grading to pale green vesicular rinds (chill margins) 92.0 - 92.7 - rubble zone - high fracture density throughout - 10% fractures oxidized - fine fractures filled with quartz, between 45o to 70° to core axis													
120.1	121.0	TRANSITION ZONE - intensely altered, dark yellow green rock (epidote, chlorite, sericite alteration) - all original texture obliterated - blocky - fracture planes at 30 to 70° to core axis													
121.0	130.3	ANDESITE DYKE - green-beige to beige, aphanitic - vesicular, altered (clay alteration) flow - minor brecciation - trace pyrite - calcite fracture filling 45° to 80° to core axis													
130.3	132.3	TRANSITION ZONE - intensely altered (original textures oblitered) rhyolite ash flow - clasts sheared, sheared out in foliation direction (sub-parallel to core axis) - chlorite, sericite, talc alteration													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- quartz/calcite veining at 35° to core axis up to 1 cm wide - 1 per 20 cm													
132.3	134.8	ANDESITE BRECCIA (BRECCIATED DYKE) - aphanitic beige andesite clasts in unaltered rhyolite glass (ash) matrix - possibly a brecciated dyke													
134.8	143.5	RHYOLITE - altered rhyolite lapilli tuff units - chlorite sericite, talc, minor - foliations and fracturing at 45° to core axis - 1% pyrite 141.2 - 141.3 - amygdular, beige andecite dyke - weakly brecciated 142.4 - 143.1 - spherulites of epidote and chlorite, possibly altered glass unit													
143.5	145.8	ANDESITE DYKE - light beige 0.1 m chill margins to beige-maroon maroon fine grained phaneritic cores - weakly brecciated - trace pyrite													
145.8	148.7	RHYOLITE UNIT - altered rhyolite lapilli tuff to ash - chlorite, sericite - 2% pyrite as fine blebs - foliations at 40° to core axis - fractures filling - quartz/adularia frequency of 1 per 5 cm up to 2 cm													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		wide at 60° to core axis throughout 80.0 to 149.3													
148.7	149.3	ANDESITE DYKE - as before													
149.3	151.5	RHYOLITE - ash flow unit - chloritized sericitized ash flow - minor foliations at 35° to core axis - 30% matrix - clasts up to 2 cm across with average being 0.5 cm - trace pyrite													
151.5	151.7	ANDESITE BRECCIA - brecciated andesite dyke - andesite fragments in a glassy rhyolite matrix													
151.71	161.4	RHYOLITE - ash flow units - moderately silicified, altered rhyolite fragments (translucent grass green) in altered glass ash matrix - trace pyrite 152.7 154.9 - intensely silicified fractured interval - fractures at 45° to core axis filled with quartz up to 0.5 cm wide - frequency of 1 per 0.5 cm 116.0 - foliations at 20° to core axis	109515 109516 109517 109518 109519 109520	153.0 154.5 156.0 157.5 159.0 160.5	154.5 156.0 157.5 159.0 160.5 162.0	1.5 1.5 1.5 1.5 1.5 1.5									

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		151.7 - 154.2 - 2% fragments have a calcite rim, looks like secondary alteration because they are rounded to subrounded compared to the subangular fragments of the remainer of the tuff unit - color of flow becomes a darker green (a bottle green) as we go to the bottom this unit - 10% glassy fragments, slightly chlorite altered 158.4 to 159.7 - 5% of clasts are almost transparent light green, siliceous with flecks of white calcite in them													
161.4	164.2	ANDESITE BRECCIA - andesite clasts in a dark green glassy matrix - clasts are pale beige, amygdaloidal (filled vessels) - amygdulls up to 1 mm diameter - 10% glassy dark green matrix	109521	162.0	163.5	1.5									
164.2	164.4	RHYOLITE ASH TUFF - siliceous - pale grey-beige - rhyolite ash flow - coarse grained - 5% matrix - "stylolite" type contacts between clasts	109522	163.5	165.0	1.5									
164.4	166.2	INTERMEDIATE DYKE - beige - fine grained phaneritic - brecciated from 164.2 to 166.7	109523	165.0	166.5	1.5									

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- trace pyrite													
166.2	169.2	RHYOLITE TUFF	109524	166.5	168.0	1.5									
		- blotchy calcite blebs in a slightly altered rhyolite tuff	109525	168.0	169.5	1.5									
		- trace epidote throughout													
		- light to medium grey in color													
169.2	169.8	ANDESITE BRECCIA	109526	169.5	171.0	1.5									
		- siliceous, pale beige, amygdaloidal andesite clasts in an intensely sheared chlorized matrix													
		- shears at 35° to core axis													
		- 10% matrix													
169.8	170.7	ANDESITE DYKE													
		- beige, fine grained phaneritic rubble													
		- 20% recovery													
		- trace pyrite on fragments													
170.7	187.4	RHYOLITE ASH TUFFS	109527	171.0	172.5	1.5									
		- moderately foliated unit	109528	172.5	174.0	1.5									
		- foliations range from 30° to 40° to core axis	109529	174.0	175.5	1.5									
			109530	175.5	177.0	1.5									
		- epidote - calcite alteration of matrix (10% epidote, 10% calcite) from 170.7 to 173.5 m	109531	177.0	178.5	1.5									
			109532	178.5	180.0	1.5									
			109533	180.0	181.5	1.5									
		173.5 - 178.1	109534	181.5	183.0	1.5									
		- rhyolite clasts have been altered to a pale emerald green	109535	183.0	184.5	1.5									
			109536	184.5	186.0	1.5									
		- clasts also siliceous	109537	186.0	187.5	1.5									
		- 15% matrix													
		- tension gashes (1 per 2 cm) at 50° to core axis													
		- calcite filled													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		178.1 - 181.7 - 5% epidote/calcite alteration 181.7 - 183.5 - relatively unaltered moderately foliated rhyolite ash tuff - light grey, siliceous clasts - calcite/quartz fracture filling, no preferred orientation to fractures - unconformable lower contact at 50° to core axis - appears to be erosional 183.5 - 187.4 - weakly altered rhyolite ash tuff - coarse grained 183.7 - 183.9 - vesicular (amygdaloidal) volcanic fragment - brecciated with calcite (quartz as matrix) - possibly edge of andesite dyke - pale yellow-beige													
187.4	203.3	INTERMEDIATE VOLCANIC FLOWS - andesite, possibly dacite, dyke swarm - light green-beige - aphanitic - amygdular - locally breccciated with black, fine grained (cryprocrystalline/aphanitic) matrix (no discernable textures) - trace pyrite 193.0 - 193.3 - zone of 15% calcite blebs in darker colored volcanic - coarser grained	109538	187.5	189.0	1.5									
			109539	189.0	190.5	1.5									
			109540	190.5	192.0	1.5									
			109541	192.0	193.5	1.5									
			109542	193.5	195.0	1.5									
			109543	195.0	196.5	1.5									
			109544	196.5	198.0	1.5									
			109545	198.0	199.5	1.5									
			109546	199.5	201.0	1.5									
			109547	201.0	202.5	1.5									
			109548	202.5	203.3	0.8									

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm

- trace pyrrhotite
- calcite fracture filling throughout

187.4 to 203.3

- fractures from 50° to 70° to core axis
- up to 1 cm wide
- frequency of 1 per 20 cm

END OF HOLE

DRILL HOLE LOG

LOCATION: 969.451N 708.697E

HOLE NO.:CA-89-40 PAGE NO: 1

AZIM.:
DIP:

ELEV.: 99.1 m
LENGTH: 230.7 m
CORE LENGTH: NQ

DIP TEST

Meterage	Dip	Azimuth
115 m	-78°	344°
231 m	-76.7°	337°

PROPERTY: Eskay Creek

CLAIM NO.:
SECTION: 2+50S
LOGGED BY: Christine Swanson
DATED LOGGED: March 16/89
DRILLING CO.: Falcon
ASSAYED BY: Bondar Clegg

STARTED: March 14/89
COMPLETED:
PURPOSE:

CORE RECOVERY:

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
0	3.0	OVERBURDEN AND CASING													
3.0	23.6	ANDESITE FLOWS	109549	7.5	9.0	1.5		<0.002		<0.02					
		- pale green	109550	15.2	16.6	1.4		<0.002		<0.02					
		- aphanitic to fine grained phaneritic	109551	20.0	22.0	2.0		<0.002		<0.02					
		- locally amydular													
		- local crackle breccia with matrix of grey calcite, 1% pyrite, 1% pyrrhotite, trace chlorite													
		- occassional calcite fracture filling from 35° to 55° to core axis													
		- up to 1 cm wide													
		- frequency of 1 per 30 cm													
		- rusted, intensely fractured zone from 15.2 to 17.1 m													
		21.5 - 22.8													
		- calcareous argillite rubble from 21.5 - 22.6 massive from 22.6 to 22.8													
23.6	33.1	ARGILLITE	109552	24.5	26.0	1.5		<0.002		0.02					
		- medium grey calcareous layers up to 30 cm thick interlayered with dark black argillite and lighter coarser	109553	27.5	29.0	1.5		<0.002		0.04					
			109554	32.0	33.5	1.5		<0.002		0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		grained pyrite rich layers up to 1 cm thick up to 30.1 m - calcareous layers make up 60% of this unit, frequently crystallite-rich' - bedding at 35° to core axis 23.8 - 24.0 - andesite rubble, rounded and rusted 27.2 - 29.0 - rubbly fractured argillite, oxidized fractures 30.1 - 30.4, 31.7 - 31.9, 32.6 - 32.8 - andesite breccias with grey calcareous argillite matrix 30.4 to 33.1 - dark grey black argillite with lighter, pyrite rich layers - bedding at 20° to core axis - calcite veining at 35° to core axis up to 4 cm wide - frequency of 1 per 1 m - 1 - 3% pyrite overeall													
33.1	72.8	ANDESITE FLOWS - as before 34.2 - 35.1 - argillite - calcareous - bedding at 20° to core axis 43.3 - 51.5 - pillowed andesites - pillow textures - pale green quench rinds grading into marroon to green aphanitic to fine phaneritic cores - amygdular	109555 109556 109557 109558 109559 109560 109561 109562 109563	34.0 42.5 48.0 53.5 61.5 65.0 69.0 70.5 72.0	35.5 44.0 49.5 55.0 63.0 66.5 70.5 72.0 73.5	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5		<0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002		<0.02 <0.02 <0.02 <0.02 0.03 <0.02 <0.02 0.02 0.03					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- pillow breccia with matrix of 50% clasts of andesite and argillite and 50% grey calcite, trace pyrite, trace pyrrhotite, trace clorite 51.5 - 72.8 - back into andesite flows - matrix in crackle breccia as in pillow breccia before 53.1 - 57.2 - oxidized fractures 1 per 5 cm 71.5 - 71.9 - andesite breccia with argillite matrix - bedding at 60° to core axis - 1 - 2% fine grained pyrite in lighter coarser grained layers - crystallites in finer grained, darker layers													
72.8	74.0	GRAPHITIC ARGILLITE - a more siliceous argillite - grey black - bedding denoted by coarser, pyrite rich siliceous layers (1 - 2% pyrite overall) - occassional crystallites in fine grained darker layers - bedding at 30° to 50° to core axis													
74.0	74.5	TRANSITION ZONE - rhyolite clasts (up to 2 cm across) - 20% clasts - in an argillite matrix (argillite as above) - 1 - 2% pyrite	109564	73.5	75.0	1.5		<0.002		0.03					
74.5	85.4	RHYOLITE UNIT - rhyolite ash tuff unit	108565 108566	75.0 76.5	76.5 78.0	1.5 1.5		<0.002 <0.002		0.02 0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- very siliceous	108567	78.0	79.5	1.5		<0.002		<0.02					
		- clasts ranging from coarse ash to 7 cm across	108568	79.5	81.0	1.5		<0.002		<0.02					
			108569	81.0	82.5	1.5		<0.002		<0.02					
		- pale grey clasts in a darker matrix	108570	82.5	84.0	1.5		0.003		<0.02					
		- 10% matrix	108571	84.0	85.5	1.5		<0.002		<0.02					
		- 1 - 3% pyrite as fine grained wispy portions of matrix and as occassional blebs up to 1 cm across													
		- high fracture density, 1 per 3 cm													
		- lower contact at 30° to core axis													
		- definite contact													
		- moderately foliated, 35° to core axis from 85.0 - 85.4													
85.4	91.8	GRAPHITIC ARGILLITE	108572	85.5	87.0	1.5		0.002		0.05					
		- as in first argillite but more carbon rich	108573	87.0	88.5	1.5		0.002		0.05					
			108574	88.5	90.0	1.5		0.002		0.04					
		- graphite along shear planes at 55° to core axis	108575	90.0	91.5	1.5		0.002		0.03					
		- bedding at 55° to core axis cross cutting shear planes													
		- 3 - 5% pyrite in coarser, pyrite rich layers													
		- occassional calcite veins at 45° to core axis up to 0.1 cm wide													
		- crystallites in darker layers													
		90.3													
		- fossil fragment													
		85.8 - 86.1													
		- 20% andesite fragments													
		- rubbly													
91.8	122.8	ANDESITE FLOWS	109576	91.5	93.0	1.5		<0.002		<0.02					
		- light to medium green	109577	93.0	94.5	1.5		<0.002		<0.02					
		- aphanitic to fine grained phaneritic	109578	94.5	96.0	1.5		<0.002		<0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- locally porphyritic	109579	96.0	97.5	1.5		<0.002		0.03					
		- locally amygdular	109580	97.5	98.0	1.5		<0.002		0.02					
		- occassional crackle breccias with grey	109581	98.0	100.5	1.5		<0.002		<0.02					
		calcite, trace chlorite, trace pyrite as	109582	100.5	102.0	1.5		<0.002		<0.02					
		matrix	109583	102.0	103.5	1.5		<0.002		<0.02					
		91.8 - 99.1	109584	103.5	105.0	1.5		<0.002		<0.02					
		- andesite breccia	109585	105.0	106.5	1.5		<0.002		<0.02					
		- aphanitic to above andesite type clasts	109586	106.5	108.0	1.5		<0.002		<0.02					
		in a black argillite	109587	108.0	109.5	1.5		<0.002		<0.02					
		- matrix	109588	109.5	111.0	1.5		<0.002		<0.02					
		- occassional argillite zones	109589	111.0	112.5	1.5		<0.002		<0.02					
		95.1 to 97.8, 99.1 - 99.4	109590	112.5	114.0	1.5		<0.002		<0.02					
		- poor recovery (40% in 95.1 to 97.8	109591	114.0	115.5	1.5		<0.002		<0.02					
		zone) no distinct bedding planes	109592	115.5	117.0	1.5		<0.002		<0.02					
		- calcite veining and shearing at 80° to	109593	117.0	118.5	1.5		<0.002		<0.02					
		core axis	109594	118.5	120.0	1.5		<0.002		<0.02					
		- rubble zones:	109595	120.0	121.5	1.5		<0.002		<0.02					
		112.0 - 115.8 oxidized fractures	109596	121.5	123.0	1.5		<0.002		<0.02					
		121.8 - 121.1 rubbly oxidized fracture zone													
		122.5 - 122.8 as above													
122.8	230.7	RHYOLITE UNIT	109597	123.0	124.5	1.5		<0.002		<0.02					
		- siliceous rhyolite breccia ash tuff	109598	124.5	126.0	1.5		<0.002		<0.02					
		units	109599	126.0	127.5	1.5		<0.002		<0.02					
		- contact with andesite intensely fractured	109600	127.5	129.0	1.5		<0.002		<0.02					
		rubbly and oxidized 122.8 to 123.6 (poor	109601	129.0	130.5	1.5		<0.002		<0.02					
		recovery 40%)	109602	130.5	132.0	1.5		<0.002		<0.02					
		- no argillite	109603	132.0	133.5	1.5		<0.002		<0.02					
		- pale grey rhyolite clasts 0.5 cm to 8 cm	109604	133.5	135.0	1.5		<0.002		<0.02					
		across in medium grey fine grained	109605	135.0	136.5	1.5		<0.002		<0.02					
		matrix	109606	136.5	138.0	1.5		<0.002		<0.02					
		- intense micro-fracturing, fractured 1 per	109607	138.0	139.5	1.5		<0.002		<0.02					
		cm	109608	139.5	141.0	1.5		<0.002		<0.02					
		- occassional oxidized fractures	109609	141.0	142.5	1.5		<0.002		<0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- rubble zone from 129.6 to 128.9	109610	142.5	144.0	1.5		<0.002		<0.02					
		- 3- 5% pyrite as fine grained wispy blebs	109611	144.0	145.5	1.5		<0.002		<0.02					
		in matrix and occassional blebs up to	109612	145.5	147.0	1.5		<0.002		<0.02					
		1 cm across from 122.8 to 132.7	109613	147.0	148.5	1.5		<0.002		<0.02					
		- foliations at 40 to 55° to core axis	109614	148.5	150.0	1.5		<0.002		<0.02					
		- microfractures (1 per cm)	109515	150.0	151.5	1.5		<0.002		<0.02					
		- calcite/pyrite filled	109516	151.5	153.0	1.5		0.002		<0.02					
		- orientation of 30° to 50° to core axis	109650	202.5	204.0	1.5		<0.002		<0.02					
		137.3 to 160.1 - breccia units (autobreccia)	109651	204.0	205.5	1.5		<0.002		<0.02					
		- average clast size approximately 10 cm,	109652	205.5	207.0	1.5		<0.002		<0.02					
		grading to coarse ash at top of units	109653	207.0	208.5	1.5		<0.002		<0.02					
		- contacts at 148.4, 155.3	109654	208.5	210.0	1.5		<0.002		<0.02					
		- 1 - 3% pyrite as microfracture filling	109655	210.0	211.5	1.5		<0.002		<0.02					
		with calcite	109656	211.5	213.0	1.5		<0.002		<0.02					
		132.8 - 160.2	109657	213.0	214.5	1.5		<0.002		<0.02					
		- calcite pyrite alteration - moderate	109658	214.5	216.0	1.5		<0.002		<0.02					
		- microfracture filling	109659	216.0	217.5	1.5		<0.002		<0.02					
		- 5 - 8% calcite	109660	217.5	219.0	1.5		<0.002		<0.02					
		- 1 - 3% pyrite	109661	219.0	220.5	1.5		<0.002		<0.02					
		- at 30° to 50° to core axis	109662	220.5	222.0	1.5		<0.002		<0.02					
		147.1 - 147.3	109663	222.0	223.5	1.5		<0.002		<0.02					
		- 10% pyrite	109664	223.5	225.0	1.5		<0.002		<0.02					
		- fine grained as fracture filling	109665	225.0	226.5	1.5		<0.002		<0.02					
		143.0 - 143.2	109666	226.5	228.0	1.5		<0.002		<0.02					
		- intensely brecciated andesite dyke with	109667	228.0	229.5	1.5		<0.002		<0.02					
		calcite matrix	109668	229.5	230.7	1.2		<0.002		<0.002					
		152.3													
		- bleb of pyrrhotite 0.5 cm across													
		- foliations at 50° to core axis													
		155.5 to 156.6, 157.0 to 157.7 weakly													
		brecciated Andesite dykes													
		- contacts at 30° to 45° to core axis													
		160.1													
		- contact with pale emerald green rhyolite													
		20° to core axis to 160.3													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		159.5 - 160.0 - intensely altered, oxidized zone (clay calcite alteration) 160.2 - 161.2 - microfracturing continues - calcite, trace pyrite - orientation 30^{o} to 50^{o} to core axis 161.2 - 188.8 - calcite alteration continues as blebs up to 2 cm across and as minor microfracture filling - 5% calcite alteration - rhyolite also altered to pale emerald green color - original textures almost obliterated in places - foliations at 20^{o} to core axis at 182.3 - moderately foliated 160.3 - 164.7 - foliations at 10^{o} to core axis - epidote-calcite-pyrite alteration (moderately altered/foliated) - 1% pyrite as fine grained blebs up to 1 mm across 171.5 - 172.4 - brecciated andesite dyke in calcite matrix - trace pyrite as disseminations in the andesite 187.2 - 187.8 - weakly brecciated andesite dyke - matrix of calcite and pyrite - 3% pyrite, 5% calcite												

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm

190.6
- foliations changes to 40° to core axis

192.5
- back into pale grey rhyolite breccia with calcite alteration
- dendrite microfractures throughout
- calcite veinlets (fracture filling) at 40° to core axis up to 0.5 cm wide
- frequency of 1 per cm
- trace pyrite along a quartz-calcite fracture filling at 195.3 at 20° to core axis
- also pyrite in fracture at 196.6 at 30° to core axis
- blotchy, white-yellow alteration of clasts ("speckled")
- from 195.5 to 206.9 (possibly argillic or sericite alteration)
- 197.2
  - pale grey green alteration, then to emerald green alteration at 205.5 to 214.8
- calcite veining at 30° to 50° to core axis frequency of 1 per cm from 200.2 to 208.0
- up to 0.5 cm wide
- slightly brecciated andesite dykes at: 202.3 to 202.6, 203.8 to 203.9, 204.3 to 204.5, 206.5 to 207.0
- trace pyrite in quartz-calcite filled fractures
- slight epidote alteration (moss green color) for up to 5 cm on either side of the dykes

209.4 - 214.8
- trace to 1% pyrite as occasional blebs up to 0.5 cm wide

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- foliations at 30 to core axis 214.8 - 224.3 - grey rhyolite breccia - dendritic microfracturing with calcite as filling - ranging from 30° to 50° to core axis and increasing in intensity towards the bottom of the breccia - trace pyrite as fine blebs and occasional fracture filling associated with calcite 217.2 - 217.3, 221.2 - 221.4, 222.4 - 222.5 "emerald green" alteration - most intense at fracture decreasing in intensity with increased distance from fracture 224.3 - 230.7 Rhyolite Ash Tuff - pale grey-green altered ash tuff - foliations at 15° to core axis - quartz-calcite veining (fracture-filling) at 20° to core axis, frequency of 1 per 10 cm - adularia fracture filling at 70° to core axis, frequency of 1 per 10 cm												
230.7		END OF HOLE													

DRILL HOLE LOG

LOCATION: 969.451N 708.697E

HOLE NO.: CA-89-41 PAGE NO: 1

AZIM.: 330°
DIP: -60
ELEV.: 99.1 m
LENGTH: 224.6 m
CORE LENGTH: NQ

STARTED: March 18, 1989
COMPLETED:
PURPOSE:

CORE RECOVERY:

DIP TEST

Meterage	Dip	Azimuth
112 m	-62°	331°
245m	-60°	343°

PROPERTY: Eskay Creek

CLAIM NO.:
SECTION: 2+50S
LOGGED BY: Christine Swanson
DATED LOGGED: March 19, 1989
DRILLING CO.: Fallon
ASSAYED BY: Bondar Clegg

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
0	7.6	OVERBURDEN & CASING													
7.6		ANDESITE & ARGILLITES													
		- pillowed andesites													
		- maroon to green with pale green quench rinds (vesicular)	109669	9.0	10.5	1.5		<0.002		<0.02					
			109670	16.0	17.5	1.5		<0.002		<0.02					
		- occcasional pillow breccias with matrix of grey calcite, trace chlorite, 1 - 3% pyrrhotite, trace pyrite & occasional filling of pale yellow green, very soft, crystalline, translucent mineral which fizzes in hydrochloric acid (possibly a zeolite)	109671	22.0	23.5	1.5		0.004		<0.02					
			109672	28.0	29.5	1.5		<0.002		0.03					
			109673	31.5	33.0	1.5		<0.002		<0.02					
			109674	37.5	39.0	1.5		<0.002		0.02					
			109675	39.0	40.5	1.5		<0.002		0.02					
			109676	40.05	42.0	1.5		<0.002		0.03					
			109677	42.0	43.5	1.5		0.002		0.05					
		- calcite fracture filling up to 2 cm wide at 30° to core axis	109678	43.5	45.0	1.5		<0.002		0.04					
			109679	45.0	46.5	1.5		0.002		0.03					
		- frequency of 1 per 5 cm	109680	46.5	48.0	1.5		0.002		0.04					
		19.3	109681	48.0	49.2	1.5		0.002		0.05					
		- calcite vein 5 cm across at 30° to core axis	109682	50.9	52.5	1.5		<0.002		0.02					
			109683	52.5	54.0	1.5		<0.002		<0.02					
		25.2 - 26.0	109684	54.0	55.5	1.5		<0.002		0.02					
		- 2 calcite veins up to 15 cm across at 30° to core axis slightly oxidized													
		28.5 - 29.2, 29.5 - 30.4, 31.0 - 31.8													
		- argillite													
		- layers subparallel to core axis													

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		35.3 - 49.2, 57.5 - 59.2, 59.8 - 65.5	109685	55.5	57.0	1.5		<0.002		0.02					
		- banded silstone argillite	109686	57.0	58.5	1.5		<0.002		<0.02					
		- layers at 20° to core axis in 35.3 to 49.2	109687	58.5	60.0	1.5		0.002		0.03					
		- average of 1 cm width	109688	61.5	63.0	1.5		0.002		0.03					
		- layers denoted by lighter coarser grained	109689	61.5	63.0	1.5		<0.002		0.02					
		layers & darker grey black carbonaceous	109690	63.0	64.5	1.5		<0.002		<0.02					
		finer grained layers with occasional	109691	64.5	66.0	1.5		<0.002		<0.02					
		crystallites	109692	66.0	67.5	1.5		<0.002		<0.02					
		- 1 - 3% pyrite as blebs, disseminations &	109693	75.0	76.5	1.5		<0.002		<0.02					
		fracture filling associated with calcite	109694	78.1	79.5	1.5		<0.002		0.02					
		- trace sphalerite in calcite filled fracture at 41.0 & 59.9													
		- fractures 20° to 50° to core axis													
		- no apparent bedding in 57.5 to 59.2 as in 59.8 to 63.5													
		- calcite fracture filling up to 1 cm wide													
		- frequency of 1 per 10 cm at 30° to 50° to core axis													
		59.2 - 50.9 Cave													
		- 50.9 - 57.5, 59.2 - 59.8, 63.5 - 64.7 andesite flow breccia													
		- fine grained aphanitic with matrix of grey calcite and pyrite													
		- argillite matrix in outer 10 cm of breccia													
		64.7 - 79.3													
		- andesite flows													
		- fine grained phaneritic with aphanitic chill margins, no quench rinds													
		- 1 - 3% pyrite as part of matrix (inclcuding grey calcite, trace chlorite) in crackle breccia													
79.3	84.7	GRAPHITIC ARGILLITE	109695	79.5	81.0	1.5		0.004		0.06					
		- 1 - 3% pyrite	109696	81.0	82.5	1.5		0.002		0.02					
		- layering at 40° to core axis	109697	82.5	84.0	1.5		0.002		0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		- calcite fracture filling at 15° to core axis up to 0.3 mm wide - frequency of 1 per 0.5 m	109698	94.0	85.5	1.5		<0.002		<0.02					
84.7	89.3	ANDESITE BRECCIA - andesite fragments up to 40cm wide in an argillite matrix - 40% argillite - 85.2 - 85.7, 86.9 - 87.4 argillite, no andesite fragments - 3 -5% pyrite as blebs and disseminated in the matrix & rimming 5% of the fragments - fragments angular to subangular 89.1 - 89.3 - sheared argillite with graphite along shear planes ranging from 30 to 80° to core axis contact with rhyolite at 80° to core axis	109699	85.5	87.0	1.5		<0.002		<0.02					
			109700	87.0	88.5	1.5		<0.002		<0.02					
			109701	88.5	90.0	1.5		<0.002		0.03					
89.3		RHYOLITE UNIT 89.3 - 96.0 - pale grey green dust tuff - no discernable fragment size - layering at 45° to core axis (foliations also) - 1 - 3% pyrite as disseminations & blebs - occasional oxidized fractures 90.3 - 90.6 - intensely silicified, massive dust tuff 91.6 - 91.7 - mud seam at 50° to core axis 93.9 - 94.0 - mud seam at 70° to core axis	109702	90.0	91.5	1.5		<0.002		<0.02					
			109703	91.5	93.0	1.5		<0.002		<0.02					
			109704	93.0	94.5	1.5		<0.002		<0.02					
			109705	94.5	96.0	1.5		<0.002		<0.02					
			109706	96.0	97.5	1.5		<0.002		<0.02					
			109707	97.5	99.0	1.5		<0.002		<0.02					
			109708	99.0	100.5	1.5		<0.002		<0.02					
			109709	100.5	102.0	1.5		<0.002		<0.02					
			109710	102.0	103.5	1.5		<0.002		<0.02					
			109711	103.5	105.0	1.5		<0.002		<0.02					
			109712	105.0	106.5	1.5		<0.002		<0.02					
			109713	106.5	108.0	1.5		<0.002		<0.02					
			109714	108.0	109.5	1.5		<0.002		<0.02					
			109715	109.5	111.0	1.5		<0.002		<0.02					
			109716	111.0	112.5	1.5		<0.002		<0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		94.5 - 95.1	109717	112.5	114.0	1.5		<0.002		<0.02					
		- 60% quartz - 10% calcite flooding	109718	114.0	115.5	1.5		<0.002		<0.02					
		96.0 - 125.3 Siliceous	109719	115.5	117.0	1.5		<0.002		<0.02					
		- light grey ash tuff units	109720	117.0	118.5	1.5		<0.002		<0.02					
		- fragments 2 - 6 cm fining upwards	109721	118.5	120.0	1.5		<0.002		<0.02					
		- intensely fractured, two major fracture	109722	120.0	121.5	1.5		<0.002		<0.02					
		sets at 10° to core axis & at 30° to core	109723	121.5	123.0	1.5		<0.002		<0.02					
		axis	109724	123.0	124.5	1.5		<0.002		<0.02					
		- frequency of 1 per cm	109725	124.5	126.0	1.5		<0.002		<0.02					
		- 1 - 3% pyrite as above but also as	109726	126.0	127.5	1.5		<0.002		<0.02					
		occassional fracture filling	109727	127.5	129.0	1.5		<0.002		<0.02					
		- fractures are mostly oxidized & leached	109728	129.0	130.5	1.5		<0.002		<0.02					
		to 1 cm away from fracture from 96.0 -	109729	130.5	135.0	1.5		<0.002		<0.02					
		111.1, 117.3 - 117.6	109730	133.5	135.0	1.5		<0.002		<0.02					
		- stylolitic fractures from 109.5 - 125.8	109731	133.5	135.0	1.5		<0.002		<0.02					
		filled with pyrite, calcite & chlorite	109732	135.0	136.5	1.5		<0.002		<0.02					
		- quartz fracture filling (flooding) from	109733	136.5	138.0	1.5		<0.002		<0.02					
		111.2 - 114.9 (as well as minor calcite)	109734	138.0	139.5	1.5		<0.002		<0.02					
		117.1 - 117.3	109735	139.5	141.0	1.5		<0.002		<0.02					
		- mud seam, rubbly	109736	141.0	142.5	1.5		<0.002		<0.02					
		125.8 - 142.3	109737	142.5	144.0	1.5		<0.002		<0.02					
		- rhyolite breccia (auto breccia)	109738	144.0	145.5	1.5		<0.002		<0.02					
		- pale grey	109739	145.5	147.0	1.5		<0.002		<0.02					
		- 1 - 3% pyrite as blebs and occassioal	109740	147.0	148.5	1.5		<0.002		<0.02					
		fracture filling	109741	148.5	150.0	1.5		<0.002		<0.02					
		- foliations (weak) at 40° to core axis	109742	150.0	151.5	1.5		<0.002		<0.02					
		- occasional oxidized fractures	109743	151.5	153.0	1.5		<0.002		<0.02					
		- low fracture density 1 per 30 cm	109744	153.0	154.5	1.5		<0.002		<0.02					
		142.3 - 142.8 Andesite Dike	109745	154.5	156.0	1.5		<0.002		<0.02					
		- pale green	109746	156.0	157.5	1.5		<0.002		<0.02					
		- amygdules filled with chlorite & calcite	109747	157.5	159.0	1.5		<0.002		<0.02					
		- sericitic? alteration from 141.5 - 142.3 &	109748	159.0	160.5	1.5		<0.002		<0.02					
		from 142.8 - 143.7 (halo around dyke)	109749	160.5	162.0	1.5		<0.002		<0.02					
		(pale yellow, soft, clayish mineral	109750	162.0	163.5	1.5		<0.002		<0.02					
		disseminated flecks)	109751	163.5	165.0	1.5		<0.002		<0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		142.8 - 224.6 Rhyolite Ash Tuff	109752	165.0	166.5	1.5		<0.002		<0.02					
		- clast size from 2 - 6 cm	109753	166.5	168.0	1.5		<0.002		<0.02					
		- angular to subangular	109754	168.0	169.5	1.5		<0.002		<0.02					
		- increase in fracture denisty to 1 per cm	109756	171.0	172.5	1.5		<0.002		<0.02					
		- no preferred orientation	109757	172.5	174.0	1.5		<0.002		<0.02					
		- pale grey to medium grey	109758	174.0	175.5	1.5		<0.002		<0.02					
		- siliceous	109759	175.5	177.0	1.5		<0.002		<0.02					
		- 30% fragments are flow banded	109760	177.0	178.5	1.5		<0.002		<0.02					
		- 1% pyrite as blebs and occasional fracture filling with calcite	109761	178.5	180.0	1.5		<0.002		<0.02					
			109762	180.0	181.5	1.5		<0.002		<0.02					
		159.8 - 162.4	109763	181.5	183.0	1.5		<0.002		<0.02					
		- sericite alteration	109764	183.0	184.5	1.5		<0.002		<0.02					
		- pale yellow flecks as in 141.5 to 142.3	109765	184.5	186.0	1.5		<0.002		<0.02					
		- occassional zones of fine ash tuff up to 30 cm wide	109766	186.0	187.5	1.5		<0.002		<0.02					
			109767	187.5	189.0	1.5		<0.002		<0.02					
		175.1 - 218.6	109768	189.0	190.5	1.5		<0.002		<0.02					
		- 5% sericite (yellow clayey flecks) alteration of clasts	109769	190.5	192.0	1.5		<0.002		<0.02					
			109770	192.0	193.5	1.5		<0.002		<0.02					
		- moderately foliated with foliations at 40° to core axis	109771	193.5	195.0	1.5		<0.002		<0.02					
			109772	195.0	196.5	1.5		<0.002		<0.02					
		- pyrite along with calcite as blebs and along dendritic (stylolite-like) fractures throughout	109773	196.5	198.0	1.5		<0.002		<0.02					
			109774	198.0	199.5	1.5		<0.002		<0.02					
			109775	199.5	201.0	1.5		<0.002		<0.02					
		168.8 - 224.6	109776	201.0	202.5	1.5		<0.002		<0.02					
		- calcite filled fractures (tension gashes) 1 per 2 cm	109777	202.5	204.0	1.5		<0.002		<0.02					
			109778	204.0	205.5	1.5		<0.002		<0.02					
		170.6 - 170.7, 201.5 - 201.6 Andesite Dykes	109779	205.5	207.0	1.5		<0.002		<0.02					
			109780	207.0	208.5	1.5		<0.002		<0.02					
		204.6 - foliations at 30° to core axis	109781	208.5	210.0	1.5		<0.002		<0.02					
		206.0 - foliations at 25° to core axis	109782	210.0	211.5	1.5		<0.002		<0.02					
		198.8 - 199.7 - 5% clasts in dust tuff, clasts have pale yellow alteration rims	109783	211.5	213.0	1.5		<0.002		<0.02					
			109784	213.0	214.5	1.5		<0.002		<0.02					
		197.3 - 201.5, 205.1 - 207.7, 211.9 - 224.6 - emerald green clasts in grey ash matrix	109785	214.5	216.0	1.5		<0.002		<0.02					
			109786	216.0	217.5	1.5		<0.002		<0.02					
			109787	217.5	219.0	1.5		<0.002		<0.02					

From	To	Description	Sample No.	From	To	Length	ASSAYS Au ppb	Au oz/t	Ag ppm	Ag oz/t	Pb ppm	Cu ppm	Zn ppm	As ppm	Sb ppm
		224.2 - trace sphalerite	109788	219.0	220.5	1.5		<0.002		<0.02					
			109789	220.5	222.0	1.5		<0.002		<0.02					
			109790	222.0	223.5	1.5		<0.002		<0.02					
			109791	223.5	224.6	1.5		<0.002		<0.02					
224.6		END OF HOLE													

CALPINE RESOURCES INCORPORATED - ESKAY CREEK PROPERTY, B.C.

DRILL HOLE LOG Hole Number CA89-38

Azimuth:	150	Elevation:	99.12	metres
Dip:	-45		325.2	feet
Core Size:	NQ			
		Length:	154.4	metres
			506.6	feet
Started:	March 7, 1989	Line:	2+41S	1+14W
Completed:	March 10, 1989			
		Location:	969.45	Northing
			708.70	Easting

Drilling Company: Falcon Drilling
Logged by: G.F. McArthur
Assayed by: Bondar-Clegg

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
N[illegible] h Vancouver, B.C.
V[illegible] 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: V89-01018.4 | PROJECT: UNUK | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
				D2 109386		0.003	0.05
				D2 109387		0.003	0.06
				D2 109388		0.003	0.14
				D2 109389		0.008	0.10
D2 109350		<0.002	<0.02	D2 109390		0.010	1.75
D2 109351		<0.002	<0.02	D2 109391		0.006	0.11
D2 109352		<0.002	<0.02	D2 109392		0.003	0.06
D2 109353		<0.002	<0.02	D2 109393		0.006	0.13
D2 109354		<0.002	<0.02	D2 109394		0.002	0.19
D2 109355		<0.002	<0.02	D2 109395		0.003	0.11
D2 109356		<0.002	<0.02	D2 109396		0.004	0.06
D2 109357		<0.002	<0.02	D2 109397		0.002	0.02
D2 109358		<0.002	<0.02	D2 109398		0.002	0.06
D2 109359		<0.002	0.02	D2 109399		<0.002	0.23
D2 109360		<0.002	0.03	D2 109400		0.002	0.16
D2 109361		<0.002	<0.02	D2 109401		<0.002	0.23
D2 109362		<0.002	<0.02	D2 109402		0.002	0.06
D2 109363		0.002	<0.02	D2 109403		0.002	0.17
D2 109364		0.002	<0.02	D2 109404		0.005	0.69
D2 109365		<0.002	<0.02	D2 109405		0.015	0.76
D2 109366		0.004	0.08	D2 109406		0.002	0.08
D2 109367		<0.002	<0.02	D2 109407		0.003	0.09
D2 109368		<0.002	<0.02	D2 109408		0.008	0.73
D2 109369		<0.002	<0.02	D2 109409		0.003	0.03
D2 109370		<0.002	<0.02	D2 109410		0.002	0.02
D2 109371		<0.002	<0.02	D2 109411		<0.002	0.02
D2 109372		<0.002	<0.02	D2 109412		0.002	0.03
D2 109373		0.002	<0.02	D2 109413		<0.002	0.03
D2 109374		<0.002	<0.02	D2 109414		<0.002	0.03
D2 109375		<0.002	<0.02	D2 109415		<0.002	0.04
D2 109376		<0.002	<0.02	D2 109416		<0.002	0.03
D2 109377		<0.002	<0.02	D2 109417		<0.002	0.02
D2 109378		<0.002	<0.02	D2 109418		<0.002	0.02
D2 109379		<0.002	<0.02	D2 109419		0.002	0.03
D2 109380		<0.002	<0.02	D2 109420		0.002	0.03
D2 109381		<0.002	<0.02	D2 109421		0.002	0.03
D2 109382		0.002	0.04	D2 109422		0.002	0.02
D2 109383		<0.002	0.02	D2 109423		0.003	0.03
D2 109384		<0.002	0.03	D2 109424		0.002	0.04
D2 109385		0.004	0.05	D2 109425		<0.002	0.02

CA-38

CA-38

...ond Clegg & Company Ltd.
...30 Pemberton Ave.
...orth Vancouver, B.C.
...P 5
...984-5-0681 Telex 04-352667

BONDAR-CLEGG

ENTERED MAR 3 1 1989

Certificate of Analysis

REPORT: V89-01018.4

PROJECT: UNUK PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109426		<0.002	0.02
D2 109427		<0.002	0.03
D2 109428		0.002	0.02
D2 109429	CA-38	0.002	0.02
D2 109430		0.002	0.02
D2 109431		<0.002	0.02
D2 109432		<0.002	0.02

ENTERED APR 2 4 1989

TSL LABORATORIES

DIV. BURGENER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4

(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10, 808 West Hastings St.
Vancouver, B.C.
V6C 2X6

REPORT No.
S6457

INVOICE #: 11157
P.O.: Bondar-Clegg

SAMPLE(S) OF Pulps

Recheck

Keewatin Engineering

CA-38

	Au ozt	Ag ozt
109360	<.001	<.05
109375	<.001	<.05
109390	.013	1.56
109405	.019	.69
109420	.001	<.05

CALPINE RESOURCES INCORPORATED - ESKAY CREEK PROPERTY, B.C.

DRILL HOLE LOG Hole Number CA89-39

Azimuth:	150	Elevation:	99.12	metres
Dip:	-77		325.2	feet
Core Size:	NQ			
		Length:	203.3	metres
			667.0	feet
Started:	March 10, 1989	Line:	2+41S	1+14W
Completed:	March 14, 1989			
		Location:	969.45	Northing
			708.70	Easting

Drilling Company: Falcon Drilling
Logged by: Christine Swanson
Assayed by: Bondar-Clegg

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

ENTERED MAR 3 1 1989

Certificate of Analysis

REPORT: V89-01018.4

PROJECT: UNUK PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109451		<0.002	<0.02
D2 109452		<0.002	<0.02
D2 109453		<0.002	<0.02
D2 109454		<0.002	<0.02
D2 109455		<0.002	<0.02
D2 109456		<0.002	<0.02
D2 109457		<0.002	<0.02
D2 109458		<0.002	0.05
D2 109459		<0.002	0.02
D2 109460		<0.002	<0.02
D2 109461		<0.002	<0.02
D2 109462		<0.002	<0.02
D2 109463		<0.002	<0.02
D2 109464		<0.002	<0.02
D2 109465		<0.002	<0.02
D2 109466		<0.002	<0.02
D2 109467		<0.002	<0.02
D2 109468		<0.002	<0.02
D2 109469		<0.002	0.02
D2 109470		<0.002	<0.02
D2 109471		<0.002	<0.02
D2 109472		<0.002	<0.02
D2 109473		<0.002	<0.02
D2 109474		<0.002	<0.02
D2 109475		<0.002	<0.02
D2 109476		<0.002	<0.02
D2 109477		0.003	<0.02
D2 109478		<0.002	<0.02
D2 109479		<0.002	<0.02
D2 109480		<0.002	<0.02
D2 109481		<0.002	<0.02
D2 109482		<0.002	0.02
D2 109483		<0.002	<0.02
D2 109484		<0.002	<0.02
D2 109485		<0.002	<0.02
D2 109486		<0.002	<0.02
D2 109487		<0.002	<0.02
D2 109488		<0.002	<0.02
D2 109489		<0.002	<0.02
D2 109490		<0.002	<0.02
D2 109491		<0.002	<0.02
D2 109492		<0.002	<0.02
D2 109493		0.002	<0.02
D2 109494		<0.002	<0.02
D2 109495		<0.002	<0.02
D2 109496		<0.002	<0.02
D2 109497		<0.002	<0.02
D2 109498		<0.002	<0.02
D2 109499		<0.002	<0.02
D2 109500		<0.002	<0.02
D2 109501		<0.002	<0.02
D2 109502		0.003	<0.02
D2 109503		<0.002	<0.02
D2 109504		0.002	<0.02
D2 109505		0.004	<0.02
D2 109506		<0.002	<0.02
D2 109507		<0.002	<0.02
D2 109508		<0.002	<0.02
D2 109509		0.002	0.02
D2 109510		<0.002	<0.02
D2 109511		<0.002	<0.02
D2 109512		<0.002	<0.02
D2 109513		<0.002	<0.02
D2 109514		<0.002	<0.02
D2 109515		<0.002	<0.02

CA-39

CA-39

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

ENTERED
Apr 7/89

REPORT: V89-01062.4

PROJECT: UNUK

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109516		<0.002	<0.02
D2 109517		<0.002	<0.02
D2 109518		<0.002	<0.02
D2 109519		<0.002	<0.02
D2 109520		<0.002	<0.02
D2 109521		<0.002	<0.02
D2 109522		<0.002	<0.02
D2 109523		<0.002	<0.02
D2 109524		<0.002	<0.02
D2 109525		<0.002	<0.02
D2 109526		<0.002	0.02
D2 109527		<0.002	<0.02
D2 109528		<0.002	<0.02
D2 109529		<0.002	<0.02
D2 109530		<0.002	<0.02
D2 109531	CA-39	<0.002	<0.02
D2 109532		<0.002	<0.02
D2 109533		<0.002	<0.02
D2 109534		<0.002	<0.02
D2 109535		<0.002	<0.02
D2 109536		<0.002	<0.02
D2 109537		<0.002	<0.02
D2 109538		<0.002	<0.02
D2 109539		<0.002	<0.02
D2 109540		<0.002	<0.02
D2 109541		<0.002	<0.02
D2 109542		<0.002	<0.02
D2 109543		<0.002	0.02
D2 109544		<0.002	<0.02
D2 109545		<0.002	<0.02
D2 109546		<0.002	<0.02
D2 109547		<0.002	0.03
D2 109548		<0.002	<0.02

ENTERED APR 2 4 1989

TSL LABORATORIES
DIV BURGENER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 45th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10, 808 West Hastings St.
Vancouver, B.C.
V6C 2X6

REPORT No. S6457

INVOICE #: 11157
P.O.: Bondar-Clegg

SAMPLE(S) OF Pulps

Recheck

Keewatin Engineering

		Au ozt	Ag ozt
109453		<.001	<.05
109468		.007/<.001	<.05
109483	CA-39	.001	<.05
109498		<.001	<.05
109513		<.001	<.05

COPIES TO: C. Idziszek, J. Foster
INVOICE TO: Keewatin Engineering-Vancouver

Mar 23/89

SIGNED Bernie Dunn

CTA

For enquiries on this report, please contact Customer Service Department.
Samples, Pulps and Rejects discarded two months from the date of this report.

ENTERED APR 2 4 1989

TSL LABORATORIES
DIV BURGENER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 48th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10, 808 West Hastings St.
Vancouver, B.C.
V6C 2X6

REPORT No. S6542

INVOICE #: 11253
P.O.:

SAMPLE(S) OF Pulps

Recheck

Bondar-Clegg

	Au ozt		Ag ozt
V89-01062.4-109530	<.001	CA-39	<.05
V89-01062.4-109545	<.001/.001		<.05

CALPINE RESOURCES INCORPORATED - ESKAY CREEK PROPERTY, B.C.

DRILL HOLE LOG Hole Number CA89-40

Azimuth:	330	Elevation:	99.12	metres
Dip:	-78		325.2	feet
Core Size:	NQ			
		Length:	230.7	metres
			757.0	feet
Started:	March 14, 1989	Line:	2+41S	1+14W
Completed:	March 17, 1989			
		Location:	969.45	Northing
			708.70	Easting

Drilling Company: Falcon Drilling
Logged by: Christine Swanson
Assayed by: Bondar-Clegg

ondar-Clegg & Company Ltd.
0 Pemberton Ave.
orth Vancouver, B.C.
TP 2
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

ENTERED APR 0 7 1989 ENTERED

REPORT: V89-01062.4

PROJECT: JNUK PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109549		<0.002	<0.02
D2 109550		<0.002	<0.02
D2 109551		<0.002	<0.02
D2 109552	CA-40	<0.002	0.02
D2 109553		<0.002	0.04
D2 109554		<0.002	0.02
D2 109555		<0.002	<0.02
D2 109556		<0.002	<0.02
D2 109557		<0.002	<0.02
D2 109558		<0.002	0.02
D2 109559		<0.002	0.03
D2 109560		<0.002	<0.02
D2 109561		<0.002	<0.02
D2 109562		<0.002	0.02
D2 109563		<0.002	0.03
D2 109564		<0.002	0.03
D2 109565		<0.002	0.02
D2 109566		<0.002	0.02
D2 109567		<0.002	<0.02
D2 109568		<0.002	0.02
D2 109569	CA-40	<0.002	<0.02
D2 109570		0.003	<0.02
D2 109571		<0.002	<0.02
D2 109572		0.002	0.05
D2 109573		0.002	0.05
D2 109574		0.002	0.04
D2 109575		0.002	0.03
D2 109576		<0.002	<0.02
D2 109577		<0.002	<0.02
D2 109578		<0.002	<0.02
D2 109579		<0.002	0.03
D2 109580		<0.002	0.02
D2 109581		<0.002	<0.02
D2 109582		<0.002	<0.02
D2 109583		<0.002	<0.02
D2 109584		<0.002	<0.02
D2 109585		<0.002	<0.02
D2 109586		<0.002	<0.02
D2 109587		<0.002	<0.02
D2 109588		<0.002	<0.02
D2 109589		<0.002	<0.02
D2 109590		<0.002	<0.02
D2 109591		<0.002	<0.02
D2 109592		<0.002	<0.02
D2 109593		<0.002	<0.02
D2 109594		<0.002	<0.02
D2 109595		<0.002	<0.02

Bondar-Clegg & Company Ltd.
30 Pemberton Ave.
North Vancouver, B.C.
V7P 2S5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

ENTERED APR 0 7 1989

REPORT: V89-01042.4

PROJECT: JVBK PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109596		<0.002	<0.02
D2 109597		<0.002	<0.02
D2 109598		<0.002	<0.02
D2 109599		<0.002	<0.02
D2 109600		<0.002	<0.02
D2 109601		<0.002	<0.02
D2 109602		<0.002	<0.02
D2 109603		<0.002	<0.02
D2 109604		<0.002	<0.02
D2 109605		<0.002	<0.02
D2 109606		<0.002	<0.02
D2 109607		<0.002	<0.02
D2 109608		<0.002	<0.02
D2 109609		<0.002	<0.02
D2 109610		<0.002	<0.02
D2 109611		<0.002	<0.02
D2 109612		<0.002	<0.02
D2 109613		<0.002	<0.02
D2 109614		<0.002	<0.02
D2 109615		<0.002	<0.02
D2 109616		0.002	<0.02
D2 109617		<0.002	<0.02
D2 109618		<0.002	<0.02
D2 109619		<0.002	0.03
D2 109620		<0.002	<0.02
D2 109621		<0.002	<0.02
D2 109622		<0.002	<0.02
D2 109623		<0.002	<0.02
D2 109624		<0.002	<0.02
D2 109625		<0.002	<0.02
D2 109626		<0.002	<0.02
D2 109627		<0.002	<0.02
D2 109628		<0.002	<0.02
D2 109629		<0.002	<0.02
D2 109630		<0.002	<0.02
D2 109631		<0.002	<0.02
D2 109632		<0.002	<0.02
D2 109633		<0.002	<0.02
D2 109634		<0.002	<0.02
D2 109635		<0.002	<0.02

CA-40

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109636		<0.002	<0.02
D2 109637		<0.002	<0.02
D2 109638		<0.002	<0.02
D2 109639		<0.002	<0.02
D2 109640		<0.002	<0.02
D2 109641		<0.002	<0.02
D2 109642		<0.002	<0.02
D2 109643		<0.002	<0.02
D2 109644		<0.002	<0.02
D2 109645		<0.002	<0.02
D2 109646		<0.002	<0.02
D2 109647		<0.002	<0.02
D2 109648		<0.002	<0.02
D2 109649		<0.002	<0.02
D2 109650		<0.002	<0.02
D2 109651		<0.002	<0.02
D2 109652		<0.002	<0.02
D2 109653		<0.002	<0.02
D2 109654		<0.002	<0.02
D2 109655		<0.002	<0.02
D2 109656		<0.002	<0.02
D2 109657		<0.002	<0.02
D2 109658		<0.002	<0.02
D2 109659		<0.002	<0.02
D2 109660		<0.002	0.02
D2 109661		<0.002	<0.02
D2 109662		<0.002	<0.02
D2 109663		<0.002	<0.02
D2 109664		<0.002	<0.02
D2 109665		<0.002	<0.02
D2 109666		<0.002	<0.02
D2 109667		<0.002	<0.02
D2 109668		<0.002	<0.02

CA-40

TSL LABORATORIES
DIV. BURGENER TECHNICAL ENTERPRISES LIMITED
2 - 302 - 46th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10, 808 West Hastings St.
Vancouver, B.C.
V6C 2X6

REPORT No. S6542

INVOICE #: 11253
P.O.:

SAMPLE(S) OF Pulps

Recheck

Bondar-Clegg

	Au ozt		Ag ozt
V89-01062.4-109560	<.001		<.05
V89-01062.4-109575	<.001		<.05
V89-01062.4-109590	.004		<.05
V89-01062.4-109605	<.001		<.05
V89-01062.4-109620	<.001	CA-40	<.05
V89-01062.4-109635	<.001		<.05
V89-01062.4-109650	<.001		<.05
V89-01062.4-109665	<.001		<.05

CALPINE RESOURCES INCORPORATED - ESKAY CREEK PROPERTY, B.C.

DRILL HOLE LOG Hole Number CA89-41

Azimuth:	330	Elevation:	99.12	metres
Dip:	-60		325.2	feet
Core Size:	NQ			
		Length:	224.6	metres
			737.0	feet
Started:	March 18, 1989	Line:	2+41S	1+14W
Completed:	March 22, 1989			
		Location:	969.45	Northing
			708.70	Easting

Drilling Company: Falcon Drilling
Logged by: Christine Swanson
Assayed by: Bondar-Clegg

Bondar-Clegg & Company Ltd.
30 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

ENTERED

REPORT: V89-01062.4

PROJECT: UNUK PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109669		<0.002	<0.02
D2 109670		<0.002	<0.02
D2 109671		0.004	<0.02
D2 109672	CA-41	<0.002	0.03
D2 109673		<0.002	<0.02
D2 109674		<0.002	0.02
D2 109675		<0.002	0.02

Registered Assayer, Province of British Columbia

Bondar-Clegg & Company Ltd.
[illegible] Pemberton Ave.
[illegible]rth Vancouver, B.C.
[illegible]P 2R5
[illegible]604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

Apr. 7/89

REPORT: V89-01062.4

PROJECT: UNUK PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109676		<0.002	0.03	D2 109716		<0.002	<0.02
D2 109677		0.002	0.05	D2 109717		<0.002	<0.02
D2 109678		<0.002	0.04	D2 109718		<0.002	<0.02
D2 109679		0.002	0.03	D2 109719		<0.002	<0.02
D2 109680		0.002	0.04	D2 109720		<0.002	<0.02
D2 109681		0.002	0.05	D2 109721		<0.002	<0.02
D2 109682		<0.002	0.02	D2 109722		<0.002	<0.02
D2 109683		<0.002	<0.02	D2 109723		<0.002	<0.02
D2 109684		<0.002	0.02	D2 109724		<0.002	<0.02
D2 109685		<0.002	0.02	D2 109725		<0.002	<0.02
D2 109686		<0.002	<0.02	D2 109726		<0.002	<0.02
D2 109687		0.002	0.03	D2 109727		<0.002	<0.02
D2 109688		0.002	0.03	D2 109728		<0.002	<0.02
D2 109689		<0.002	0.02	D2 109729		<0.002	<0.02
D2 109690		<0.002	<0.02	D2 109730		<0.002	<0.02
D2 109691		<0.002	<0.02	D2 109731		<0.002	<0.02
D2 109692		<0.002	<0.02	D2 109732		<0.002	<0.02
D2 109693	CA-41	<0.002	<0.02	D2 109733	CA-41	<0.002	<0.02
D2 109694		<0.002	0.02	D2 109734		<0.002	<0.02
D2 109695		0.004	0.06	D2 109735		<0.002	<0.02
D2 109696		0.002	0.02	D2 109736		<0.002	<0.02
D2 109697		0.002	0.02	D2 109737		<0.002	<0.02
D2 109698		<0.002	<0.02	D2 109738		<0.002	<0.02
D2 109699		<0.002	<0.02	D2 109739		<0.002	<0.02
D2 109700		<0.002	<0.02	D2 109740		<0.002	<0.02
D2 109701		<0.002	0.03	D2 109741		<0.002	<0.02
D2 109702		<0.002	<0.02	D2 109742		<0.002	<0.02
D2 109703		<0.002	<0.02	D2 109743		<0.002	<0.02
D2 109704		<0.002	<0.02	D2 109744		<0.002	<0.02
D2 109705		<0.002	<0.02	D2 109745		<0.002	<0.02
D2 109706		<0.002	<0.02	D2 109746		<0.002	<0.02
D2 109707		<0.002	<0.02	D2 109747		<0.002	<0.02
D2 109708		<0.002	<0.02	D2 109748		<0.002	<0.02
D2 109709		<0.002	<0.02	D2 109749		<0.002	<0.02
D2 109710		<0.002	<0.02	D2 109750		<0.002	<0.02
D2 109711		<0.002	<0.02	D2 109751		<0.002	<0.02
D2 109712		<0.002	<0.02	D2 109752		<0.002	<0.02
D2 109713		<0.002	<0.02	D2 109753		<0.002	<0.02
D2 109714		<0.002	<0.02	D2 109754		<0.002	<0.02
D2 109715		<0.002	<0.02	D2 109755		<0.002	<0.02

Bondar-Clegg & Company Ltd.
1 Pemberton Ave.
N th Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

ENTERED
Apr 7/89

REPORT: V89-01062.4

PROJECT: UNUK PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
D2 109756		<0.002	<0.02
D2 109757		<0.002	<0.02
D2 109758		<0.002	<0.02
D2 109759		<0.002	<0.02
D2 109760		<0.002	<0.02
D2 109761		<0.002	<0.02
D2 109762		<0.002	<0.02
D2 109763		<0.002	<0.02
D2 109764		<0.002	0.02
D2 109765		<0.002	<0.02
D2 109766		<0.002	<0.02
D2 109767		<0.002	<0.02
D2 109768		<0.002	<0.02
D2 109769		<0.002	<0.02
D2 109770		<0.002	<0.02
D2 109771		<0.002	<0.02
D2 109772		<0.002	<0.02
D2 109773		<0.002	<0.02
D2 109774		<0.002	<0.02
D2 109775		<0.002	<0.02
D2 109776		<0.002	<0.02
D2 109777		<0.002	<0.02
D2 109778		<0.002	<0.02
D2 109779		<0.002	<0.02
D2 109780		<0.002	<0.02
D2 109781		<0.002	<0.02
D2 109782		<0.002	<0.02
D2 109783		<0.002	<0.02
D2 109784		<0.002	<0.02
D2 109785		<0.002	<0.02
D2 109786		<0.002	<0.02
D2 109787		<0.002	<0.02
D2 109788		<0.002	<0.02
D2 109789		<0.002	<0.02
D2 109790		<0.002	<0.02
D2 109791		<0.002	<0.02

CA-41

ENTERED APR 2 4 1989

TSL LABORATORIES
DIV BURGENER TECHNICAL ENTERPRISES LIMITED

2 - 302 - 46th STREET, EAST
SASKATOON, SASKATCHEWAN
S7K 6A4
(306) 931-1033 FAX: (306) 242-4717

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Prime Exploration Ltd.
10th Floor-Box 10, 808 West Hastings St.
Vancouver, B.C.
V6C 2X6

REPORT No. S6542

INVOICE #: 11253
P.O.:

SAMPLE(S) OF Pulps

Recheck

Bondar-Clegg

	Au ozt		Ag ozt
V89-01062.4-109680	<.001		<.05
V89-01062.4-109695	.004/.005		.08
V89-01062.4-109710	<.001		<.05
V89-01062.4-109725	<.001		<.05
V89-01062.4-109740	<.001	CA-41	<.05
V89-01062.4-109755	<.001		<.05
V89-01062.4-109770	<.001		<.05
V89-01062.4-109785	<.001		<.05

APPENDIX V

Statement of Expenditures

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March 5 to 25, 1989

Personnel

B.W. Downing, geologist, 5 days @ $300/day	$1500	
G. McArthur, geologist, 5 days @ $300/day	1500	
C. Swanson, geologist, 5 days @ $200/day	1000	
		$ 4,000.00

Drilling

2667.3 feet (813 metres) NQ core @ $23.80/foot	62,681.55

Assays

452 samples for Au, Ag assay sample preparation @ $16.50/sample	7,458.00
TOTAL	**$74,139.55**