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AN ASSESSMENT REPORT
OF
DIAMOND DRILLING AND ROCK SAMPLING

CAMP CLAIM GROUP

OMINECA MINING DIVISION

N.T.S. 93N/2E
LAT./LONG. 124° 34'W, 55° 05'N

BY

MAX H. HOLTBY

SILVER STANDARD RESOURCES INC.

for

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May 1991

GEOL\CAMP-91

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2. INTRODUCTION

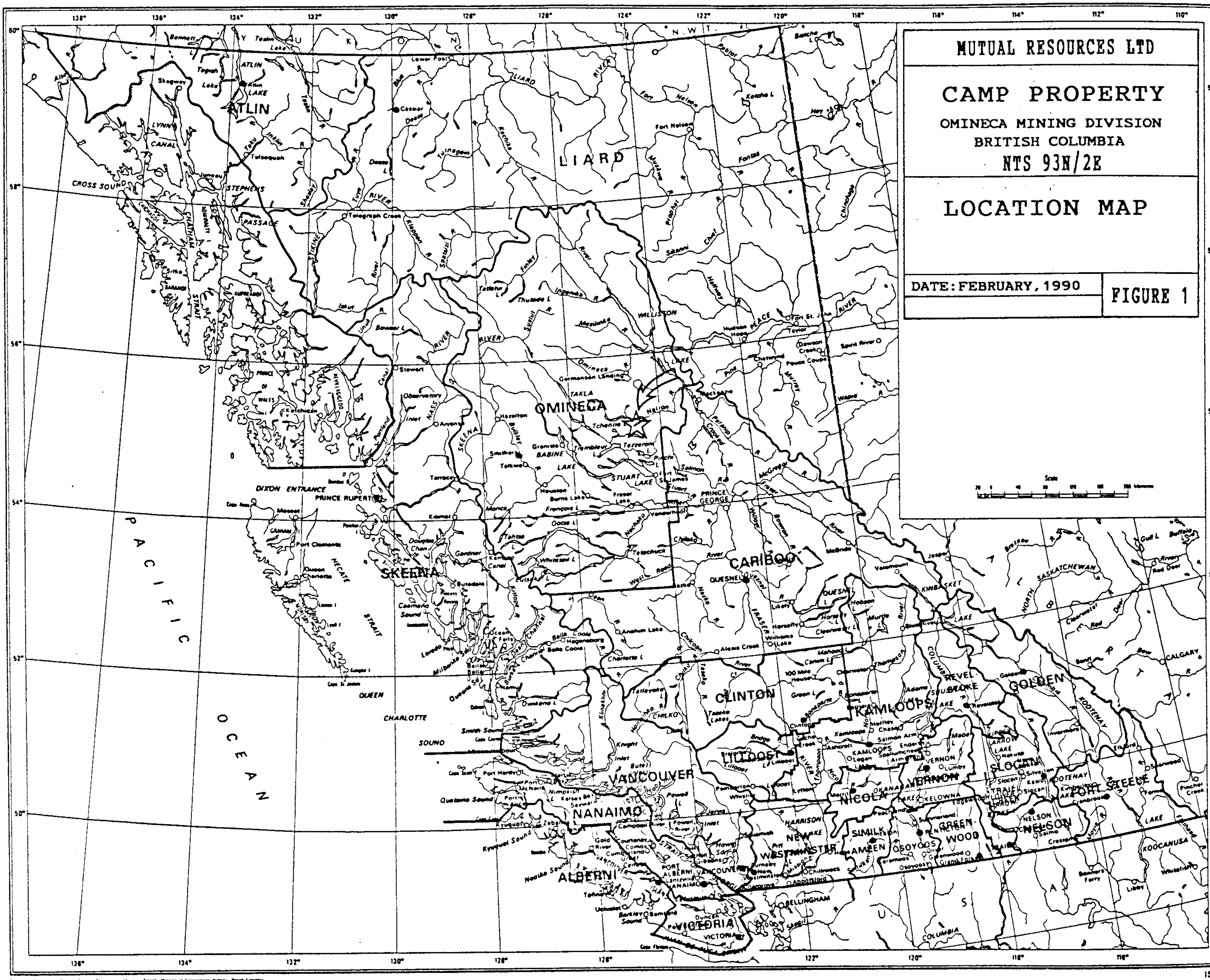
This report describes a prospecting and rock sampling programme and subsequent diamond drilling programme conducted on the Camp property. Prospecting and rock sampling were carried out from August 23 to September 13, 1990 by veteran prospector A.R.C. Potter. Camp construction for the drill programme was undertaken from November 25 to December 10, 1990. Diamond drilling and the accompanying road construction were carried out from January 26 to March 8, 1991. The final phase of reclamation was carried out from May 3 to May 10, 1991. The field programme was carried out by Silver Standard Resources Inc. personnel under contract from Mutual Resources Ltd.

2.1 Location and Access

The Camp property lies near the southwest end of Witch Lake about 8 km south of Chuchi Lake. It is 35 km west of the Mt. Milligan property and approximately 74 km north-northwest of the community of Fort St. James.

Access during all phases of work carried out in 1990 was by aircraft. Helicopters were used from Northern Mountain Helicopters bases in Fort St. James and Tchentlo Lake.

A tote road was constructed in January and February 1991 to provide access for the diamond drilling programme. From Fort St. James to the campsite on Campbell Lake is approximately 109 km by road; 101 km to the end of Apollo Forest Products logging roads - via the Leo Creek Forestry, 100, 500 and J roads, and 8 km from the J logging road to the campsite. A further 3 km of road extends from the camp to the drillsites.



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CAMP PROPERTY

OMINECA MINING DIVISION
BRITISH COLUMBIA
NTS 93N/2E

LOCATION MAP

DATE: FEBRUARY, 1990

FIGURE 1

2.2 Physiography

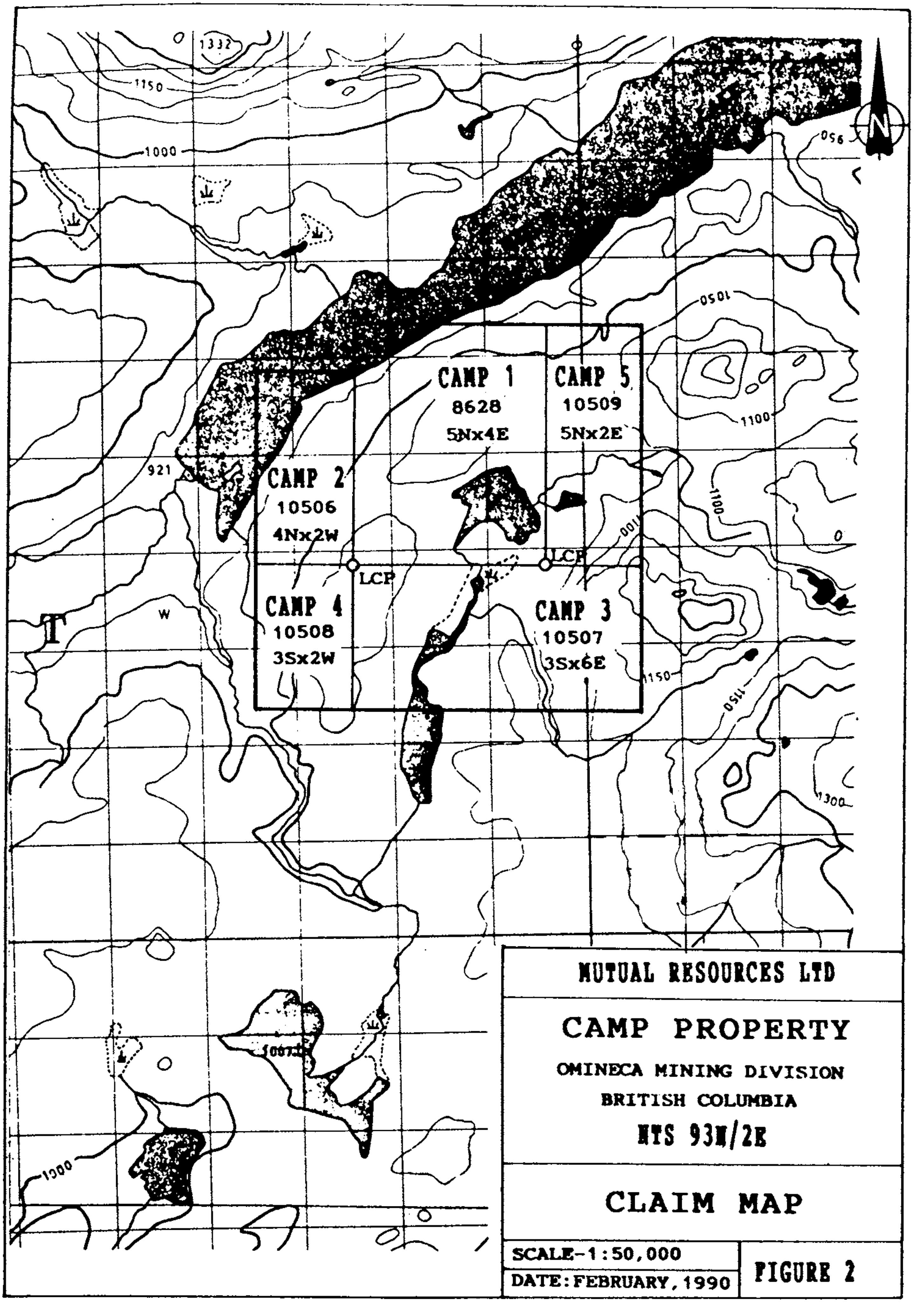
The property lies within the Nechako Plateau physiographic division which is characterized by broad flat-bottomed valleys and low rounded hills. The maximum relief on the property is 330 m rising gently from an elevation of 920 m at the shore of Witch Lake to 1250 m at the highest crest in the centre of the property.

The area was extensively glaciated during the Pleistocene. The Cordilleran ice-sheet moved generally eastward across this portion of the Nechako Plateau (Armstrong, 1965). Drumlins and parallel groovings in the till plain indicate northeastward ice movement in the vicinity of the Camp property during the last episode of glaciation. The property is largely covered by a thick mantle of glacial and glacio-lacustrine overburden.

The claims are forested and have never been logged. Outcrops are sparse and occur mainly near the centre of the property on the east and southeast sides of the hill immediately north of Campbell Lake.

2.3 Claims

The property is located in the Omineca Mining Division and consists of the five Camp claims, comprising 62 units in total, that cover an area of 1,550 hectares. The claims are under option to Mutual Resources Ltd. from Indata Resources Ltd.


1332
1150
1000
950
1050
1100
921
W
CAMP 1
8628
5Nx4E
CAMP 5
10509
5Nx2E
CAMP 2
10506
4Nx2W
LCP
CAMP 4
10508
3Sx2W
CAMP 3
10507
3Sx6E
1150
1300
MUTUAL RESOURCES LTD
CAMP PROPERTY
OMINECA MINING DIVISION
BRITISH COLUMBIA
NTS 93N/2E
CLAIM MAP
SCALE-1:50,000
DATE: FEBRUARY, 1990
FIGURE 2

Claim Name	Record Number	Units	Anniversary Date	Expiry*
Camp 1	8628	20	July 31	2001
2	10506	8	May 23	2001
3	10507	18	May 24	2001
4	10508	6	May 26	2001
5	10509	10	May 25	2001

* Based upon assessment credit for the work reported herein.

2.4 History

The property was originally staked in 1970 by Mr. C. Campbell after finding copper mineralization while following up stream sediment geochemical anomalies. Porphyry copper style mineralization was uncovered in four trenches dug by Mr. Campbell. In 1970 Imperial Oil Enterprises Ltd. optioned the property.

Imperial Oil carried out ground magnetic, IP and soil geochemical surveys over a 370 hectare area centred on the four trenches. Three drill holes totalling 453 m were also drilled.

In 1988 Mr. Campbell collected 60 soil samples on the 1970 grid. These soil samples were analyzed for gold.

In 1990 Mutual Resources optioned the claims. In addition to the work reported herein, Mutual Resources carried out a 1,681 sample soil survey on 40.97 m of line cut in a 17 line grid, a 37 line-km total field magnetic survey and a 27.5 line-km I.P. survey.

2.5 1990-1991 Work Programme

The subject of this report is the prospecting and rock sampling phase of the 1990 work programme and the 1991 diamond drilling and road construction work.

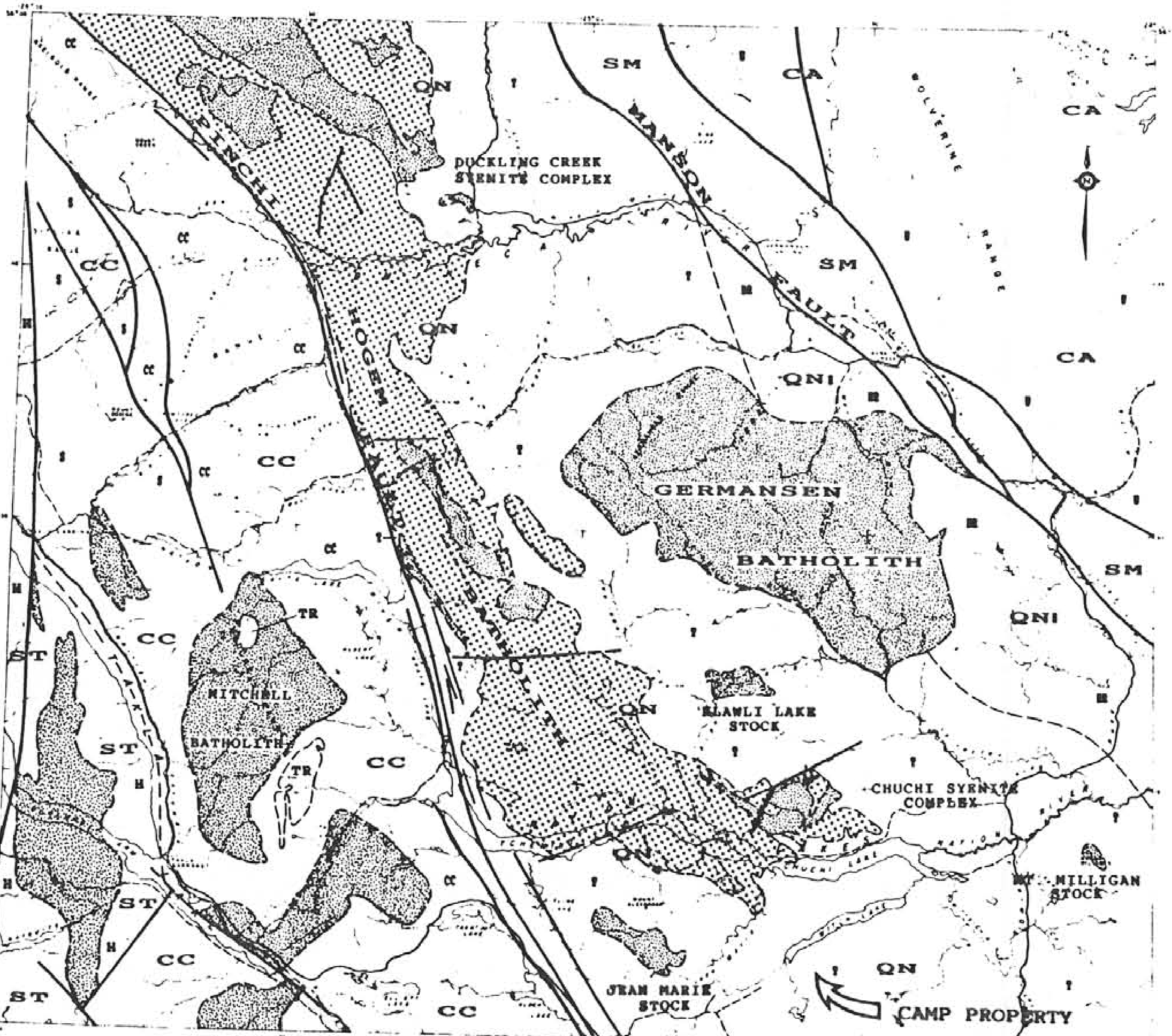
Prospecting and rock sampling was undertaken by prospector A.R.C. Potter between August 23 and September 13, 1990. The camp, for the later diamond drilling programme, was constructed between November 25 and December 10, 1990 by Silver Standard Resources Inc. personnel. Road construction was carried out by Silverton Drilling Ltd. starting January 26, 1991 and extending through the drilling programme. The tote road averages 4 m in width and totals approximately 11 km. Silverton Drilling Ltd. also carried out the drill programme. A total of 890.63 m in seven holes were drilled. The field programme was completed May 10, 1991.

The work programme was managed by Silver Standard Resources Inc. under contract from Mutual Resources Ltd.

3. GEOLOGY

3.1 Regional Geology

The property lies within the Quesnellia Terrane which extends as a narrow northwestward-trending belt over most the length of the Canadian Cordillera. It is comprised of Upper Triassic and Lower Jurassic island arc volcanics, volcaniclastics and comagmatic intrusive rocks overlain by Jurassic arc-derived clastics. The western boundary of Quesnellia in the Nation Lakes area (its boundary with the Cache Creek Terrane) is the Pinchi Fault which lies 25 km to the southwest of the property. Its



EXPLANATION

TECTONIC ASSEMBLAGES

DISPLACED CONTINENTAL MARGIN

(Terranes displaced from Ancestral North America by transcurrent faulting):

CA — **CASSIAR**
UPPER PROTEROZOIC TO UPPER TRIASSIC PASSIVE CONTINENTAL MARGIN SEDIMENTS DISPLACED ALONG THE TINTINA AND NORTHERN ROCKY MOUNTAIN TRENCH FAULTS

INTERMONTANE SUPERTERRANE

(Terranes amalgamated by latest Triassic time and accreted to Ancestral North America in the Jurassic)

SM — **SLIDE MOUNTAIN**
OCEANIC VOLCANICS AND SEDIMENTS OF DEVONIAN TO LATE TRIASSIC AGE

QN — **QUESNELLIA**
UPPER TRIASSIC AND LOWER JURASSIC ISLAND ARC VOLCANICS, VOLCANICLASTICS AND COMAGMATIC INTRUSIVE ROCKS OVERLAIN BY JURASSIC ARC-DERIVED CLASTICS

QNI — **HARPER RANCH SUBTERRANE**
UPPER DEVONIAN TO TRIASSIC ARC CLASTICS, VOLCANICS AND CARBONATE (BASEMENT TO QUESNELLIA)

CC — **CACHE CREEK**
MISSISSIPPIAN TO UPPER TRIASSIC OCEANIC VOLCANICS AND SEDIMENTS, AND UPPER TRIASSIC ISLAND ARC VOLCANICS, ALSO INCLUDES ALPINE-TYPE ULTRAMAFICS

ST — **STIKINIA**
DEVONIAN TO PERMIAN ISLAND ARC VOLCANICS AND PLATFORM CARBONATES OVERLAIN BY TRIASSIC AND LOWER JURASSIC ISLAND ARC VOLCANICS, VOLCANICLASTICS AND ARC-DERIVED CLASTICS INTRUDED BY COMAGMATIC PLUTONIC ROCKS

PLUTONIC SUITES

PRE-ACCRETIONARY INTRUSIONS

Hogem Batholith
Upper Triassic to Lower Jurassic diorite, monzodiorite, monzonite, quartz monzonite and granodiorite comagmatic with surrounding Takla Group volcanics (Phase I)

POST-ACCRETIONARY INTRUSIONS

Hogem Batholith
Lower to Middle Jurassic syenite (includes Duckling Creek and Chuchi complexes, Phase II), Lower Cretaceous granite, quartz syenite and alaskite (Phase III)

Germansen Batholith and Klawli Lake Stock
Upper Cretaceous granodiorite, pegmatite and aplite dykes

Mitchell Batholith
Upper Jurassic to Lower Cretaceous granite with a border phase of diorite, surrounding stocks are granitic and dioritic in composition

Mount Milligan Stock
Upper Jurassic to Lower Cretaceous syenodiorite

Jean Marie Stock
Cretaceous granodiorite and quartz diorite

REGIONAL MAP UNIT

W — **Wolverine Complex**
Cambrian and earlier schist, quartzite, limestone and gneiss intruded by granodiorite and pegmatite

SM — **Slide Mountain Group**
Upper Paleozoic to Lower Triassic mafic to intermediate volcanics, phyllite, argillite, sandstone, limestone and chert

T — **Takla Group**
Upper Triassic and Lower Jurassic andesitic and basaltic flows, tuffs and breccias; argillite, siltstone, sandstone, conglomerate and limestone

HR — **Harper Ranch Group**
Middle to Upper Paleozoic mafic volcanics, sandstone, siltstone and limestone

CC — **Cache Creek Group**
Pennsylvanian to Permian andesitic flows, tuffs and breccias, chert, argillite, phyllite, quartzite and limestone

TR — **Trembleur Ultramafics**
Permian to Triassic harzburgite, dunite, pyroxenite and gabbro and their serpentinized and sheared equivalents

S — **Sitlika Assemblage**
Upper Triassic andesitic, basaltic, dacitic and rhyolitic flows, tuffs, and breccias, greywacke, siltstone, phyllite and argillite

H — **Hazelton Group**
Jurassic andesitic, rhyolitic, trachytic and basaltic flows, tuffs and breccias, argillite, sandstone and limestone

SYMBOLS

Fault trace (approximate, inferred)
Geological contacts and intrusive boundaries (approximate)

0 2 4 6 8 10 15 20
KM

Geological information compiled from J.E. Armstrong (1938-1944), F. Ferri and D.M. Melville (1987-1988), J.A. Garnett (1971-1973), L.A. Peterson (1974), and J.O. Wheeler et al (1988)

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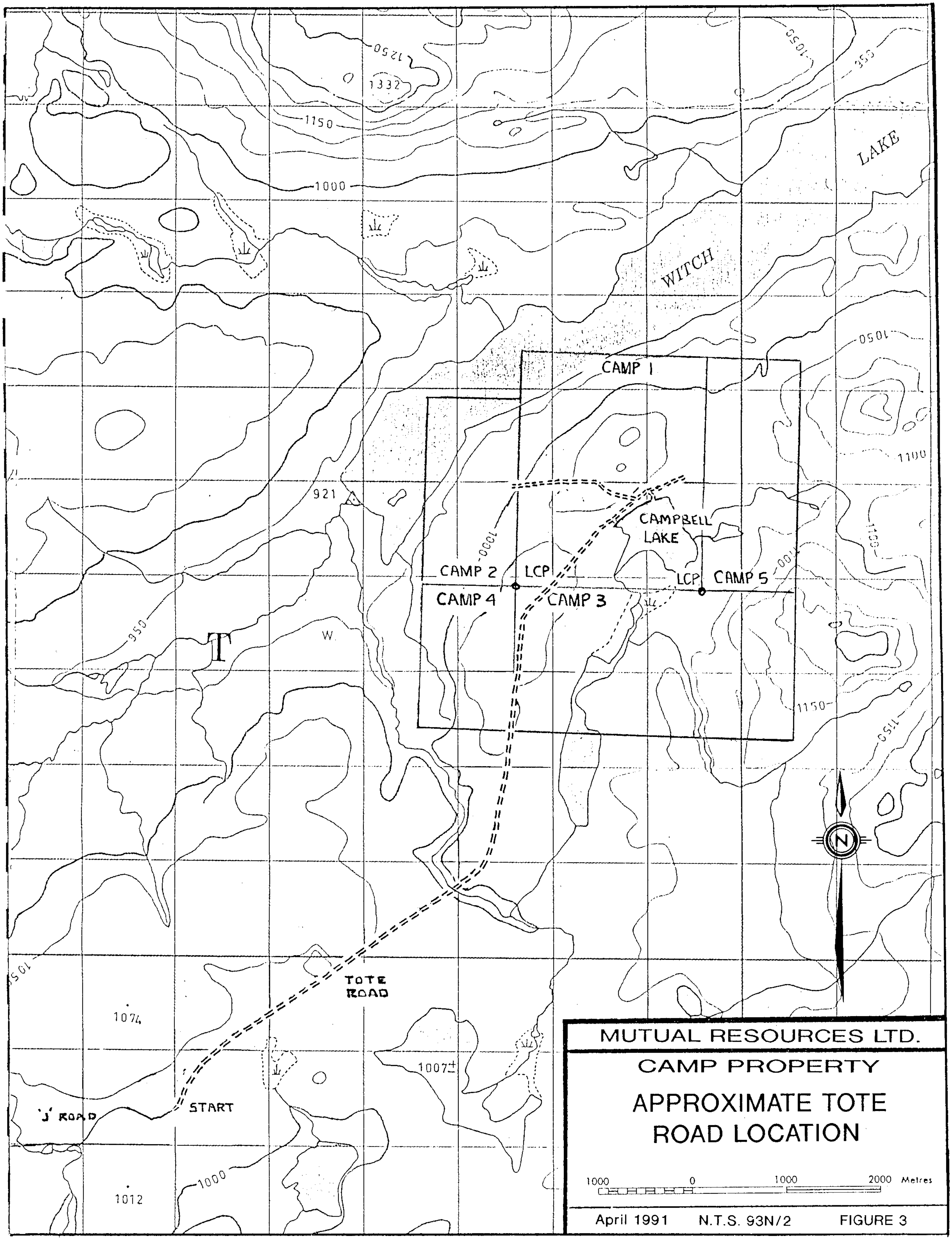
MTS 93N	
TECTONIC FRAMEWORK AND REGIONAL GEOLOGY OF THE MANSON RIVER MAP SHEET	
SCALE	DATE FEBRUARY, 199[illegible]
COMPILED BY J. E. TOCHET	FIGURE 3
DRAWN BY P. MAILLOT	



MUTUAL RESOURCES LTD.

CAMP PROPERTY

APPROXIMATE TOTE ROAD LOCATION

April 1991 N.T.S. 93N/2 FIGURE 3

eastern boundary (that with the Slide Mountain Terrane) is the Manson Fault which is 55 km to the northeast.

In this region, Quesnellia is represented by the Takla Group volcanic and sedimentary succession and by early phases of the Hogem Batholith. The Late Triassic to Early Jurassic Takla Group comprises a thick sequence of predominantly andesitic and basaltic pyroclastics and massive flows with interbedded epiclastics and limestones.

The Hogem Batholith, exposed 7 km to the northwest of the property, is a large composite body of alkaline and calc-alkaline plutons. It is elongate in shape, extending for a length of 150 km northward from Chuchi Lake and varies in width up to 25 km. The batholith is in intrusive contact with Takla Group volcanics along all of its eastern, southern and northern margins. To the west, it is truncated by the Pinchi Fault and it is in fault contact with rocks of the Cache Creek Terrane along most of its western margin.

The mid-Triassic to mid-Cretaceous Hogem Batholith is differentiated into four distinct plutonic suites and is divided into three distinct phases. Chemical affinities suggest volcanic/plutonic equivalence between Takla Group volcanics adjacent to the Hogem Batholith and intrusive varieties of Phase I, the oldest and most dominant phase.

The Southern Hogem Batholith and its satellite intrusions are host to a large number of porphyry copper and copper-molybdenum prospects, many of which were explored extensively between 1969 and 1975. Generally, only minor occurrences of disseminated pyrite and chalcopyrite are genetically related to the earliest phase basic suite. Significant porphyry copper occurrences are spatially associated with Phase II syenites of the Duckling Creek and Chuchi complexes. Showings generally occur where syenites intrude Phase I basic suite intrusives or Takla Group volcanics. The major prospects of this class include the Lorraine, Tam, Rem, Misty, Chuchi and Col properties. With the Mt. Milligan copper-gold deposit discovery these prospects have been re-evaluated in recent years for their copper-gold potential.

Porphyry copper-molybdenum mineralization is spatially-related to the latest phase granitic bodies. It occurs with quartz-flooding in fractured zones and in aplite and alaskite dykes. The more important prospects of this type include the Kwanika and Jean properties.

3.2 Property Geology

No geological mapping of the property was carried out during this work programme. This property geology section is based upon prospecting notes, drill core examination and correlation with geophysical surveys.

The most striking geologic feature on the property is a strong magnetic anomaly under and north of Campbell Lake. This magnetic anomaly, as defined at the 58,200 nT contour, extends 1,200 m in a northwest-southeast direction and remains open to the southeast. The anomaly is about 450 m wide at its northwestern end and widens out to 1,050 m width at the southeastern end of the surveyed area. Interpretation and modelling of the ground magnetic survey data suggests the magnetic anomaly is fault bounded and those faults dip outward (i.e. the northeastern boundary fault dips northeastward and the southwestern boundary fault dips southwest), indicating a magnetic feature that widens with depth. No outcrops were found in the area of the magnetic anomaly but two holes were drilled in the anomaly. Drill hole 91-4 was drilled in the centre of the anomaly and drill hole 91-3 was drilled across the eastern margin of the anomaly. The magnetic anomaly is the result of a high magnetic content in propylitically altered Takla volcanics intruded and probably underlain by syenite.

Magnetite contents are up to 25% and this magnetite appears to be hydrothermal in origin. Propylitic alteration is primarily pervasive and strong chloritization but also includes sections of pervasive and strong epidotization. Biotitization, potassic alteration, is marked by very fine grained pervasive interstial biotite. Up to 25% biotite occurs over short intervals. Carbonate alteration is widespread. Calcite fracture fillings, commonly with magnetite, average 1% to 3% and are up to 5%, over 1 m intervals. Pyritization is weak with approximately 0.1% to 0.3% as disseminations and fracture fillings. The highest pyrite concentrations are in calcite fracture fillings. Shearing is common in the altered volcanics. Crushed magnetite and carbonate and/or quartz veinlets indicate post-alteration shearing.

In hole 91-4 short intervals (up to 5 m) of weakly epidotized syenite were intersected. Epidote occurs mainly as fracture fillings with very minor pervasive patches. Within these syenite intercepts occur hornfelsed volcanic sections and, commonly, thin very fine-grained dark green diabase dykes. Hole 91-4 bottomed in syenite.

Interpretation of the magnetic survey suggesting that the magnetic anomaly is bounded by faults is borne out by results of drill hole 91-3. This hole commenced inside the magnetitic anomaly and cut across its northeastern margin. The hole cut 40 m of sheared and altered volcanics and a possible diorite unit. Assuming an interpreted 60° to 70° northeast dip to the bounding fault the true thickness of the fault is 10 m to 20 m. (This fault is lineament L1 in the magnetic survey interpretation report.) Within the sheared interval a dioritic appearing unit was intersected. This unit has a mottled appearance, is strongly and pervasively chloritized, contains pyrite fracture fillings with quartz and calcite, 1% hematite fracture fillings, and syenite as thin veinlets (< 1 cm). Pervasive and weak potassic alteration occurs adjacent to a number of syenite veinlets. The syenite veinlets contain up to 10% epidote as fracture fillings and 0.2% pyrite as fracture fillings with hematite, and/or quartz and/or calcite.

Assays of core intercepts within the magnetic anomaly are generally not anomalous for copper or gold. Hole 91-4 averaged 112 ppm Cu and 7 ppb Au over 56.39 m. Hole 91-3 averaged from 21.95 m to 99.47 m (bedrock surface through the bounding fault) 122 ppm Cu and 13 ppb Au, with the best interval assaying 1,158 ppm Cu and 11 ppb Au over 3 m of altered volcanic.

Three I.P survey chargeability anomalies are the second geologic feature of interest. The largest anomaly (main zone) forms a northwest trending arc 1,300 m long by 400 m wide, roughly parallel to the magnetic anomaly and about 600 m northeast of the northeast margin of the magnetic anomaly. Drill hole 91-1 was drilled in the centre of the main zone chargeability anomaly on line 5000N.

In the western corner of the grid a strong chargeability anomaly (west zone) trends north with the strongest I.P. response towards the west. Drill hole 91-7 was drilled on this anomaly. The third chargeability anomaly (south zone) occurs on the southwestern side of the magnetic anomaly and trends north, parallel to the interpreted west fault boundary of the southern portion of the magnetic anomaly (as defined at the 58,200 nT contour). Hole 91-5 was drilled in the south zone. All three I.P. chargeability anomalies were found to be caused by graphitic sediments.

If the chargeability anomaly trends accurately reflect the general strike of the graphitic sediments then it would appear that units to the northeast of the magnetic anomaly strike northwest while units to the southwest of the magnetic anomaly strike north. An apparent southward bend in the main zone chargeability anomaly in the vicinity of Campbell Lake suggests rock units under the lake strike northerly.

Drill holes 91-1, 5 and 7 did not solely intersect graphitic sediments. Clastic sediments and tuffaceous sediments, both hornfelsed and chloritized, were minor components in these holes and in the section of hole 91-3 northeast of the magnetic anomaly. Trachyte dykes were intersected in hole 91-7. Hole 91-1 intersected minor hornfelsed (biotitic altered) volcanics.

All drill holes in graphitic sediments (black clastic unit) contain little copper. No anomalous values were intersected. Hole 91-1 averaged 104 ppm Cu and 5 ppb Au over 146.30 m. Hole 91-5 averaged 113 pm Cu and 35 ppb Au over 54.86 m. Hole 91-7 averaged 70 ppm Cu and 7 ppb Au over 41.15 m. The higher average gold content in hole 91-5 may reflect the higher pyrite content in quartz-carbonate veinlets in this hole compared to pyrite contents in holes 91-1 and 7.

Soil samples collected in May 1990 detected a zone anomalous for copper and gold on lines 5000N and 4900N between the magnetic anomaly and the main zone chargeability anomaly. The best copper and gold values in rock samples collected during the 1990 programme were in the same area. This geochemical anomaly was tested by drill holes 91-2 and 6.

Drill hole 91-2 intersected a series of augite/hornblende (secondary after augite?) porphyries, minor hornfels, very minor andesite and diabase dykes. Augite porphyry units are common to the Witch Lake Formation of the Takla Group throughout the region. The upper 22 m of hole 91-2 contains 50% hornfels and 50% augite/hornblende porphyry. These porphyry units appear andesitic to latitic in composition when fairly fresh. Porphyries contain 10% to 15% augite/hornblende that is usually chloritized. Biotite comprises 2% to 3%, is light brown to bronze coloured and is often sericitized. Pyrite, pyrrhotite and chalcopyrite occur as fracture fillings with/or without calcite and quartz. From bedrock surface to 25.30 m this hole averaged 426 ppm Cu and 2 ppb Au over 22.25 m.

In hole 91-2 after 25.30 m the porphyries are much more siliceous in appearance and the biotite is strongly sericitized. Sericitization of feldspar is occasionally visible. The porphyries in this portion of hole 91-2 appear to be dacitic in composition but this is probably an alteration effect rather than an original composition change. Augite porphyries, hornfels and andesite are all copper bearing from 25.30 m to the end of the hole (152.70 m). This interval averages 1,823 ppm (0.18%) Cu and 33 ppb Au over 127.40 m, including 25.30 m to 47.85 m (22.55 m) grading 0.21% Cu and 72.13 to 152.70 m (80.57 m) grading 0.19% Cu. The lowest copper grades are over two intervals with fine grained diabase dykes (629 ppm Cu over 1.84 m and 132 ppm Cu over 2.03 m).

Drill hole 91-6 intersected 30% augite porphyries and 70% hornfels from 6.10 m to 35.07 m. These porphyries are dacitic in appearance; the mafics have been moderately to strongly sericitized and are less visible than in hole 91-2. This interval averages 466 ppm Cu and 14 ppb Au over 28.99 m. From 35.07 m to 45.97 m the augite porphyry has an andesitic appearance as the mafics are chloritized rather than sericitized. This interval averages 139 ppm Cu and 3 ppb Au over 10.90 m. From 45.97 m to 213.36 m (end of the hole) averages 507 ppm Cu and 27 ppb Au over 167.39 m. Over this interval a series of augite porphyries of dacitic appearance, chert or cherty sediment, hornfels or fine grained massive sediment were intersected. Higher copper values tend to be in sections with more calcite veining or pyrite fracture filling with associated chalcopyrite. These higher values are found in dacitic porphyry, hornfels and cherty intervals. Gold values in hole 91-6 increase with depth. The final 30.36 m, from 183.00 m to 213.36 m, average 86 ppb Au; including a 3 m zone with 506 ppb Au.

Both holes 91-2 and 91-6 have extensive chloritization, silicification, carbonatization (as calcite fracture fillings) sericitization and biotitization with weak pyritization. Alteration of mafics (augite) in hole 91-6 suggests and overprinting of successive alteration phases, chloritization followed by biotitization followed by sericitization.

4. GEOCHEMICAL AND GEOPHYSICAL SURVEYS

Results of soil geochemical and Induced Polarization and ground magnetic geophysical surveys carried out for Mutual Resources in 1990 may be found in separate reports as referenced in section 9.

The soil geochemical survey totalled 1,681 samples collected on 17 grid lines and on two lines on the southern side of the claims. Most copper values above 100 ppm and gold values above 20 ppb are located on the north side of Campbell Lake between 5500E and 6300E north, from the lakeshore to line 5000N. Copper values range up to 2,213 ppm and gold values range up to 710 ppb in this area.

Most remaining copper values above 100 ppm occur on lines 5500N to 6100N from 5800E to 6900E, as northwest striking zones that average 25 m to 75 m wide and 200 m to 400 m long. The highest copper value in this area is 889 ppm and the highest gold value is 150 ppb.

An Induced Polarization survey was carried out by Wood Geophysical Consulting. Resistivity data was not found to be diagnostic with respect to the chargeability anomalies detected by this survey. Three chargeability anomalies were detected. The main zone extending over 1,300 m in length and about 450 m in width is located about 600 m northeast of the magnetic anomaly. In the extreme western corner of the I.P. survey area the west zone has a northerly trend with the strongest chargeability response towards the west. A north trending zone (south zone) extends parallel to the western boundary of the south portion of the magnetic anomaly. These chargeability anomalies were found to be caused by graphitic sediments of the Takla Group.

A ground magnetic survey was conducted over the grid and over Campbell Lake by Silver Standard Resources Inc. and reported upon and interpreted by Interpretex Resources Inc. A strong anomaly was detected extending under and north of Campbell Lake. The anomaly is characterized by total field values of over 66,000 nT in a background on the order of 57,800 nT.

The magnetic anomalous area was interpreted by Interpretex to be composed of separate magnetic rock units. Interpretex interpreted the anomaly to be both bounded by faults and cut by faults. Drilling results indicate the magnetic anomaly is caused by a high magnetite content in propylitically altered Takla Group volcanics intruded by syenite. Bounding faulting was also confirmed by drilling results.

A correlation of geophysical and geochemical surveys with drilling results may be found in section 3.2, Property Geology.

5. PROSPECTING AND ROCK SAMPLING

Prospector A.R.C. Potter prospected and collected rock samples from August 23 to September 13, 1990. A total of 14 rock samples and two soil samples were collected and sent to Min-En Laboratories for analysis. All rocks and soils were analyzed for gold and by 31 element I.C.P. Two rocks were also analyzed for Pt and Pd. Sample locations with copper and gold values are plotted on Figure 91-1. Assays certificates may be found in Appendix 2.

The majority of outcrop found during prospecting the property were Takla Group volcanics and sediments. Volcanic units included tuffs, andesite porphyry, dacite tuffs, basalt and pyroxenite. Sediments include marl, black clastics and chert; hornfels is common. Intruding Takla Group rocks are trachytic dykes. A small area of monzonite intrusive was found on line 5300N at 5550E.

Alteration noted during prospecting was predominantly hornfels with minor skarnification. Quartz-calcite veinlets with minor chalcopyrite and pyrite were found cutting marls. Other than a sheared tuff with minor silica-pyrite-chalcopyrite, on line 5100N at 6270E, most sulphide mineralization was found in chert, cherty units or trachyte dykes. Chalcopyrite and pyrite were found as disseminations and on fractures in trachyte or more commonly in chert or cherty sediment.

Sample No.	Location	Cu ppm	Au ppb	Description
333267	5000N-5990E	3089	70	Trachyte - disseminated chalcopyrite
333268	5010N-5925E	1085	20	Hornfels - quartz-calcite filled breccia, copper stain
333269	4858N-5910E	1885	60	Chert - pyrite, chalcopyrite, neodosite
333270	4880N-5940E	2650	140	Chert - chalcopyrite
333271	5850N-6450E	189	20	Cherty - green, leached sulphides
333272	5025N-5900E	770	150	Marl - 15 cm silica breccia strikes north, vertical dip
333273	4860N-4505E	92	30	Marl - calcite veinlets, pyrite
333274	4860N-4540E	102	20	Silicified, pyrite in quartz veinlets
333275	4815N-3610E	73	30	Marl - brecciated, brown carbonate alteration and veining
333276	4815N-3580E	107	10	Hornfels - silicified, pyrite
333277	5020N-3760E	73	30	Hornfels - 1% disseminated pyrrhotite
333278	5100N-6270E	75	20	Tuff - chalcopyrite, pyrite, silica on slickensides
333279	5350N-6325E	55	10	Monzonite - minor pyrrhotite
333280	5350N-6330E	520	20	Skarn - gossanous

6. DIAMOND DRILLING

Diamond drilling was contracted to Silverton Drilling Ltd. of Smithers, B.C. A total of 890.63 m (2,922 feet) NQ sized core was drilled in seven holes between February 15 and March 4, 1991.

Drill Hole	Azimuth	Inclination	Length (metres)	Co-ordinates
91-1	225°	-60°	149.35	4985N-6250E
91-2	225°	-55°	152.70	5000N-5980E
91-3	45°	-45°	152.40	5000N-5625E
91-4		-90°	66.14	5300N-5500E
91-5	45°	-60°	84.43	5400N-5250E
91-6	225°	-60°	213.36	4900N-5975E
91-7		-90°	72.24	5940N-4950E

Hole locations are plotted on map 91-1 and drill hole logs may be found in Appendix 1.

Hole 91-1 was drilled to test the main zone chargeability anomaly.

Hole 91-2 was drilled to test the area of coincident anomalous copper and gold values on line 500N, as found in the 1990 soil sampling survey.

Hole 91-3 was drilled on the east margin of the magnetic anomaly to test that feature.

Hole 91-4 was drilled in the centre of the magnetic anomaly.

Hole 91-5 was drilled in the south zone chargeability anomaly. It was drilled to test this chargeability anomaly and the west contact of the magnetic anomaly; however, the hole was stopped before the magnetic units were intersected.

Hole 91-6 was drilled to the south of hole 91-2 in an area with moderately anomalous copper values in soil samples and to test beneath an outcrop with one of the highest copper and gold values detected in the 1990 rock sampling (sample 333270 with 2,650 ppm Cu and 140 ppb Au).

Hole 91-7 was drilled to test the west zone chargeability anomaly.

A discussion of drilling results may be found in section 3.1, Property Geology.

7. CONCLUSIONS AND RECOMMENDATIONS

It is concluded that the magnetic anomaly is caused by hydrothermal magnetite introduced into strong and pervasively propylitically altered Takla Group (Witch Lake Formation) volcanics. These altered volcanics have been intruded and may be underlain by syenite. The magnetic anomaly is bounded and cut by both northwest and north trending faults. No significant copper or gold values were intersected by two diamond drill holes within the magnetic anomaly.

It is concluded that the three Induced Polarization chargeability anomalies are caused by graphitic sediments of the Takla Group (Inzana Lake Formation?). Chargeability anomaly trends suggest a northwest strike to units northeast of the magnetic anomaly and a north strike to units southwest of the magnetic anomaly.

In graphitic units and intercalated tuffs and clastic sediments (hornfelsed) copper values average 70 to 113 ppm. Gold values in holes 91-1 and 7 averaged 5 to 7 ppb but hole 91-5, with a higher pyrite content in quartz-carbonate veinlets, averaged 35 ppb Au.

It is concluded that the gold and copper in soils anomaly lying on lines 4900N and 5000N between the magnetic anomaly and the main zone chargeability anomaly, reflects copper and gold mineralization in augite porphyries, cherty and hornfelsed clastic sediments. Alteration of these rock types is typical of alkaline copper-gold porphyry deposits; namely, pervasive propylitic as chloritization, epidotization, carbonatization (calcite veinlets) and potassic as biotitization. Silicification and sericitization of augite/hornblende porphyry units is common, however, the intensity of alteration is not directly correlated with copper grades. Porphyry units in drill hole 91-6 were more intensely silicified and sericitized than in hole 91-2 but copper grades were higher throughout hole 91-2.

The overburden depths in holes 91-7, 5 and 4 indicate the northwestern half of the grid is overlain by 10 m to 30 m of glacial till. This till is about 10 m thick on the ridge top north of Campbell Lake and increases in thickness north of the ridge. Such till depths suggest that soil geochemical survey results in that area may be unreliable. The sporadic high copper values detected in the northern quarter of the grid may represent copper mineralization located to the southwest, i.e. up glacial ice-movement direction.

Drilling results suggest that zone of 300 m to 400 m width by up to 1,500 m length, lying on the northeast side of the magnetic anomaly, is a good target for copper-gold porphyry type mineralization. Drill holes 91-2 and 6 drilled in the southeastern portion of this target area have detected such mineralization with accompanying alteration typical of such an environment. The copper values in soil samples on the northern quarter of the grid may represent such mineralization transported from the northwestern portions of this target area.

It is recommended that a re-examination, including geological mapping, of the ground lying between the magnetic anomaly and the main zone chargeability anomaly be undertaken. The possibilities of trenching northward at least from drill hole 91-2 to the ridge top should be reviewed during this re-examination. If trenching is not feasible due to the overburden depths then a series of drill holes would be necessary to test this target zone.

8. COST STATEMENT

Prospecting and Rock Sampling

Labour:	A.R.C. Potter, Prospector August 23 - September 13, 1990, 22 days @ $150			$3,300.00
Truck Rental including mileage				1,246.50
Food and Accommodation				326.30
Northern Mountain Helicopters:				1,368.20
	#48213	August 25	$714.45	
	$45193	September 13	$653.75	
Min-En Labs:				324.50
	Invoice 18523D			
	14 rock-31 element ICP, Au @ $18.25		$255.50	
	2 rock-Pt, Pd @ $20.00		$ 40.00	
	2 soils-31 ICP, Au @ $14.50		$ 29.00	
Subtotal				**$6,565.50**

Camp Construction (for Drilling Programme)

Labour:			$5,116.00
	M. Holtby, Geologist November 25 - December 6, 1990 12 days @ $245 including benefits	$2,940	
	J. Bacon, Labourer November 25 - December 10, 1990 16 days @ $136 including benefits	$2,176	
Food and Accommodation	28 man-days @ $30		840.00
Camp Supplies (Wood, nails etc)			1,878.51

Transportation		4,282.43
Smithers Truck Rental	$ 956.18	
Northern Mountain Helicopters		
#55216, November 28, 1990	$2,660.85	
#57729, December 4, 1990	$ 665.40	
Subtotal		**$12,116.94**

Road Construction

Labour		$5,904.00
K. Chubb, Mining Technologist January 26 - March 8, 1991 41 days @ $144 including benefits		
Bulldozer		14,505.00
Silverton Drilling Ltd.		
Slashing Crew		6,894.00
J. Cromarty Contracting		
Meals and Accommodation		1,800.00
Total 60 man-days @ $30		
Truck Rental		848.21
Fuel		774.41
Reclamation Seed		160.88
Subtotal		**$30,886.50**

Drilling

Labour		$17,882.00
M. Holtby, Geologist February 3 - March 4, 1991 30 days @ $245	$7,350	

	J. Bacon, Labourer January 31 - March 8, 1991 37 @ $160 including benefits	$5,032	
	B. Wiersbitzky, Cook February 3 - March 8, 1991 34 @ $160 including benefits	$5,440	
Meals and Accommodation	SSR, Drillers and Slashing Crew Total 210 man-days @ $30		6,300.00
Drill Contractor	Silverton Drilling Ltd.		62,026.64
Assays	Acme Analytical Laboratories 291 core samples for 30 element ICP and Gold @ $15.44		4,493.40
Aircraft	Tsayta Aviation		2,090.00
Fuel			8,001.65
Equipment			2,483.11
	Deakin	$ 373.12	
	Jaycox Industries	$ 90.10	
	Vancal	$ 136.44	
	Telephone	$ 19.71	
	Miscellaneous supplies	$1,563.74	
	Radios	$ 300.00	
Freight	Russell Transfer		1,032.85
Reclamation Seed			160.87
Subtotal			**$104,410.52**
TOTAL			**$153,979.46**

9. REFERENCES

ARMSTRONG, J.E. (1949): Fort St. James Map-Area, Cassiar and Coast Districts, British Columbia, Geol. Survey Canada, Mem. 252.

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10. STATEMENT OF QUALIFICATIONS

I, Max Holtby, residing at 103 - 1026 Queens Avenue, New Westminster, B. C. hereby certify that:

1. I graduated from the University of British Columbia in 1972 with a B.Sc. in Honours Geology.

2. I am a Geological Association of Canada Fellow and Geological Society of Malaysia Member in good standing.

3. The work described herein was done under my direct supervision.

4. I have worked since 1971 as an exploration geologist and in mine management in Canada, U.S.A., Malaysia and Liberia, West Africa.

Max H. Holtby, F.G.A.

GEOLOGICAL ASSOCIATION OF CANADA · FELLOW · M. H. HOLTBY

APPENDIX 1

Diamond Drill Hole Logs

Abbreviations used in Logs

apnc	aphanitic
bott	biotite
CA	core axis
clct	calcite
cp	chalcopyrite
dsmn	disseminated
epdt	epidote
fcfg	fracture filling
fgmt	fragment
hmtt	hematite
mgnt	magnetite
po	pyrrhotite
py	pyrite
qtz	quartz
smas	same as
sp	sphalerite
tr	trace
v	very
<, >	less than, greater than
≤, ≥	less or equal to, greater or equal to
< <, > >	much less than, much more than

APPENDIX 2

Rock, Soil and Drill Core Sample

Assay Certificates and Analytical Techniques

APPENDIX 1

Diamond Drill Hole Logs

Abbreviations used in Logs

apnc	aphanitic
bott	biotite
CA	core axis
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epdt	epidote
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hmtt	hematite
mgnt	magnetite
po	pyrrhotite
py	pyrite
qtz	quartz
smas	same as
sp	sphalerite
tr	trace
v	very
<, >	less than, greater than
≤, ≥	less or equal to, greater or equal to
<<, >>	much less than, much more than

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-1

PROPERTY: CAMP
LOCATION: B.C.
ELEVATION:
COORDINATES: 4985N
6250E

LENGTH: 149.35m

	BEARING	INCLINATION
COLLAR	225°	-60°

CORE SIZE: NQ
COMMENCED: FEB. 15, 1991
COMPLETED: FEB. 18, 1991
LOGGED BY: M. HOLTBY
SAMPLED BY: J. BACON

CORE STORED AT: On property at 4975N - 5575E

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	FROM m	TO m	LENGTH m	ASSAYS Cu ppm	Au ppb			
0	3.05	Casing - no core	0	To									
3.05	17.05	Hornfels	3.05	0	173151	3.05	5.18	2.13	71	1			
		core very broken up	5.18	26	152	5.18	9.75	4.57	93	3			
		first few fgmts - mafic xlcc tuff	8.23	6	153	9.75	11.28	1.53	100	14			
		-25% feldspars	9.75	20	154	11.28	14.28	3.00	174	5			
		- mafics - chloritized, 2mm-4mm	11.28	78	155	14.28	17.05	2.77	263	2			
		then dark grey to blackish very fine grained	14.33	65									
		to aphc., rare strongly chloritized	17.37	95									
		mafics.	19.82	90									
		8.0m - tuffaceous fgmts, dark grey to brownish	20.42	83									
		up to 1.5cm fgmts, only for 10 cm.	22.56	93									
		py - trace to 0.2% dssmn.	24.69	94									
		0.2% to 0.4% fcfg - dry fractures or	26.52	36									
		with chlorite, qtz and clct, avg 1mm-1.5mm	27.74	80									
		- also in 1 mm ffg without other minerals.	29.57	100									
		cp - trace at 4.0m.	32.00	64									
		occasional few cm to ½m med grey, siliceous	33.83	87									
		appearance, has py.	35.66	100									
		13.9-16.3m - 5% qtz - clct ffg, up to 1cm	37.19	84									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-1

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		but avg 1-2mm.	38.71	108									
		py ≤ 0.1% in qtz-clct fcfg	41.15	100									
		qtz-clct fcfg predominantly 50°-70°	44.20	89									
		to C.A., but can be any orientation	45.72	74									
17.05	24.65	Augite porphyry	47.85	105	156	17.05	19.81	2.76	65	6			
		med grey, softish.	48.77	92	157	19.81	22.35	2.54	31	1			
		5% muscovite-books, avg ½ mm, also	50.90	103	158	22.35	24.65	2.30	60	3			
		1mm laths.	53.04	93									
		vague feldspars and mafics.	54.56	47									
		-apnc and non-descript to about 18.3 ~~m~~	56.39	98									
		qtz fcfg - ½%	58.52	70									
		py - 0.1% to 0.2% dsmn, up to ½% fcfg.	59.14	140									
		cp - rare tr. dsmn with py	60.97	60									
		po - trace to spotty 0.1% with py.	64.02	93									
		after 18.3m - less sericitized	65.54	90									
		bott - 3%-5%, moderately sericitized	68.59	97									
		py fcfg > dsmn 0.2±%, occasional	69.20	108									
		1% over 2 to 5cm sections.	71.64	89									
		mafics 30%-40%, strongly chloritized	74.69	103									
		feldspars subhedral to euhedral.	75.91	95									
		22.35-24.65m - again strongly sericitized.	78.35	77									
24.65	50.15	Black clastic - Graphitic	80.18	88	159	24.65	27.65	3.00	154	6			
		dark grey to black, apnc to very fine-grained	83.23	100	160	27.65	29.57	1.92	196	10			
		bands 40° to C.A.	83.84	70	161	29.57	32.00	2.43	202	11			
		py tr. to 0.1%, rarely more	86.89	100	162	32.00	35.66	3.66	197	13			

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-1

SHEET 3 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		-at 28.37m - 4mm band py - minor po, 40° to C.A.	89.32	95	163	35.66	38.71	3.05	102	8			
		-at 30.7m - 3 cm patch py	92.37	94	164	38.71	41.15	2.44	94	6			
		-occasional thin clct fcfg, avg <1mm, 1/2% to 1%	93.54	86	165	41.15	44.20	3.05	127	7			
		-rare qtz fcfg, avg 2 mm.	96.62	102	166	44.20	47.20	3.00	90	3			
		-38.65m - 5mm band po, 40° to C.A.	99.67	103	167	47.20	50.15	2.95	87	5			
		-40.33-41.15m - med grey, no graphite	102.72	95									
		-42.17m - 1mm qtz - clct - py - cp fcfg 30° to C.A.,	104.55	73									
		cuts banding at 70°	105.77	102									
		cp - as dry fcfg for 1 cm out from qtz-clct	106.98	86									
		-41.15-50.15m - clct-qtz fcfg 1%-2%, with py.	108.81	111									
50.15	59.10	Clastic Sediment	111.56	72	168	50.15	53.04	2.89	99	2			
		med. grey	112.78	63	169	53.04	56.05	3.01	96	3			
		clct ± qtz fcfg 1%, avg 1mm, with tr. py	114.91	16	170	56.05	59.10	3.05	105	2			
		py ≤ 0.1% fcfg & dissmn	116.43	59									
		minor graphite on a few fractures.	117.96	85									
		58.60-59.10m - 5% to 10% angular, brown,	119.79	94									
		apnc, fragments up to 1.5cm	122.83	63									
		and black fragments up to 1cm.	124.66	85									
		59.10m cntc, sharp 30° to C.A.	126.19	88									
59.10	62.00	Black Clastic - Graphitic	127.71	60	171	59.10	62.00	2.90	100	7			
		black to dark grey	130.15	84									
		py - 0.2% to 0.5%, mainly on dry fractures,	131.06	26									
		also with qtz-clct fcfg and on dry fractures	133.20	66									
		1st metre - occassional black and brown fgmts	135.64	94									
		60.90-62.00m - transition from black	137.77	90									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-1

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		graphitic to med. grey clastic.	138.68	34									
		spotty 5% (over 20cm) clct fcfg.	140.21	75									
62.00	74.90	Tuff.	140.82	49	172	62.00	65.00	3.00	99	1			
		Massive appearance	141.73	49	173	65.00	68.00	3.00	110	1			
		angular fragments - up to 5mm, avg 0.1 to 0.2 mm,	142.34	57	174	68.00	71.00	3.00	109	2			
		most light grey, 1% white, a few	143.87	57	175	71.00	74.00	3.00	121	1			
		black to dark grey, all aphc to	145.39	34									
		very fine grained, larger fragments											
		concentrated at start of section 3%-5%,											
		and decrease downhole.	146.00	23									
		Matrix - blackish	147.52	76									
		py - 0.1%, on dry fractures, dssmn, in qtz-clct fcfg	149.35	60									
		cp - rare trace dssmn and in qtz-clct fcfg.	END										
		po - trace dssmn and in qtz-clct fcfg.											
		73.71-73.94m - black, banded, graphitic, 40° to C.A.											
		py 0.2% ffg on dry fractures.											
74.90	76.70	Black Clastic - Graphitic			176	74.00	76.70	2.70	126	6			
		very fine grained.											
		py - on dry fractures and in qtz-clct fcfg											
		- total 0.1%-0.2%											
		- mainly on dry fractures.											
76.70	84.75	Tuff (Sediment)			177	76.70	79.70	3.00	112	2			
		med. grey			178	79.70	81.57	1.87	103	14			
		similar to 62.00-74.90m but more			179	81.57	84.75	3.18	95	4			
		black fgmts and many are angular, up to 5cm.											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-1

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		brownish fragments - up to 3cm, very fine-											
		grained, angular with rounded corners.											
		py <0.1% in qtz-clct fcfg, dssmn and											
		on dry fractures											
		80.40-81.00m - Augite porphyry											
		med. grey, 3% large chloritized mafics											
		up to 5mm, py 0.1%-0.2% dssmn											
		and in qtz-clct fcfg.											
		40° to C.A. cntcs.											
		81.39-81.57m - fault											
		83.19-83.84m - black, graphitic											
84.75	91.29	Augite Porphyry (?)			180	84.75	87.75	3.00	20	2			
		strongly and pervasively chloritized			181	87.75	91.29	3.54	39	1			
		dark grey to black											
		mafics - vaguely visible, chloritized,											
		up to 4mm.											
		feldspars - vaguely visible											
		qtz-clct fcfg + clct fcfg, avg 1mm., <0.5%											
		py - traces on dry fractures.											
		91.29m - fault, 40° to C.A.											
91.29	110.85	Feldspar Porphyry			182	91.29	94.30	3.01	9	2			
		dark grey, similar to unit in hole 91-4, 9.75-14.87m.			183	94.30	97.30	3.00	41	12			
		5% bronze colored biotite books.			184	97.30	100.30	3.00	21	5			
		mainly feldspars.			185	100.30	103.30	3.00	63	2			
		mafics - interstitial, fine grained (secondary biotite?)			186	103.30	105.87	2.57	293	3			

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-1

SHEET 6 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	FROM m	TO m	LENGTH m	ASSAYS Cu ppm	Au ppb			
		py - tr to 0.1% dsmn, on dry fractures, in			187	105.87	108.81	2.94	52	17			
		clct-qtz fcfg			188	108.81	110.85	2.04	33	6			
		clct fcfg + clct-qtz fcfg ½%											
		cp - rare tr. with py in clct-qtz fcfg.											
		104.60-105.87 m - light to med. grey.											
		- biotite alteration (hornfelsing?)											
110.85	117.60	Black Clastic - Graphitic			189	110.85	112.78	1.93	175	5			
		very fine grained			190	112.78	115.80	3.02	152	3			
		clct-qtz fcfg - hairline to 1mm.			191	115.80	117.60	1.80	162	7			
		py - tr. on dry fractures > dsmn.											
117.60	134.60	Hornfels			192	117.60	120.60	3.00	110	3			
		- dark grey, 5% black sections.			193	120.60	123.60	3.00	90	3			
		- brownish tint (biotite hornfelsing?)			194	123.60	126.60	3.00	76	3			
		common			195	126.60	129.60	3.00	82	11			
		py in clct fcfg > on dry fcfg or dsmn.			196	129.60	131.60	1.46	39	6			
		130.20-134.00 m - very broken up, fault.			197	131.60	134.60	3.54	77	4			
134.60	145.95	Black Clastic - Graphitic			198	134.60	137.54	2.94	85	1			
		very fine grained			199	137.54	140.21	2.67	125	3			
		clct ± qtz fcfg 1%, decreasing downhole			200	140.21	143.87	3.66	106	5			
		py - 0.1%, on dry fractures > dsmn > in clct fcfg			201	143.87	145.95	2.08	98	35			
		occasional hornfels bands - brownish											
		35°-40° to C.A.											
		137.04-137.54 m Dyke											
		light brown, fine grained, hard, 35° to C.A.											
		py tr. dsmn; 0.2% clct fcfg with tr. py.											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-1

SHEET 7 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb		
145.95	146.39	Hornfels			202	145.95	146.45	0.50	148	13		
		greenish grey										
		clct fcfg with tr. py - 0.1%-0.2%										
		146.37 m - 2cm qtz + clct(minor) fcfg with										
		10% py, tr cp, 0.2% chlorite, 50° to C.A.										
146.39	146.45	Mud - 60° to C.A.										
146.45	147.57	Black clastic - Graphitic			203	146.45	147.57	1.12	101	5		
147.57	149.12	Augite Porphyry			204	147.57	149.35	1.78	135	3		
		greenish grey, apnc matrix										
		15% chloritized mafics, up to 1cm										
		py - 0.1% mainly in clct fcfg										
		po - tr. dsmn										
149.12	149.35	Black Clastic - Graphitic										

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-2

SHEET 1 OF 7

PROPERTY: CAMP

LOCATION: B.C.

ELEVATION:

COORDINATES: 5000N
5980E

LENGTH: 152.70m

	BEARING	INCLINATION
COLLAR	225°	-55°
152.70m		-53.5°

CORE SIZE: NQ

COMMENCED: FEB. 18, 1991

COMPLETED: FEB. 20, 1991

LOGGED BY: M. HOLTBY

SAMPLED BY: J. BACON

CORE STORED AT: On the property at 4975N - 5575E

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
0	3.05	Casing - No core	0	To									
3.05	9.03	Augite Porphyry - Volcanic	3.05	0	173205	3.05	6.00	2.95	302	2			
		medium grey; siliceous apnc matrix	5.18	75	206	6.00	9.03	3.03	646	4			
		mafics - pyroxene 10% to 15%, subhedral	8.23	100									
		chloritized, up to 1.2cm, avg. 3 to 4mm.	10.67	104									
		biotite - books 2% to 3% (sericitized?)	11.89	79									
		light brown to bronze color	14.33	102									
		clct - minor qtz fcfg, up to 5mm, avg 1 to 2mm	17.37	99									
		mainly barren - also with py ± po ± cp	20.42	101									
		py - ~~total~~ total 0.1% to 0.2% with clct ± qtz	23.47	98									
		fcfg > on dry fractures > damn.	26.52	96									
		po - total 0.2 to 0.3%, damn > with clct fcfg ±	29.57	96									
		qtz	32.61	101									
		cp - 0.1% occasionally 0.3% or 0.4% over	35.66	100									
		a few cm when in fcfg	38.71	102									
		- often associated with py or po	41.76	101									
		fcfg ± clct ± qtz > on dry fractures > damn	41.88	BOX SPILLED									
		9.03m cntc - sharp but irregular	47.85										
			50.90	89									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-2

SHEET 2 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb
9.03	15.20	Hornfels	53.95	99	207	9.03	12.03	3.00	201	2
		Brownish grey, apnc, few black patches	57.00	103	208	12.03	15.20	3.17	206	2
		dct-qtz fcfg ≤ 1%, avg. <1mm.	59.44	90						
		po - total 0.1%, rarely more, dssmn >	62.48	101						
		fcfg ± dct ± qtz	65.53	103						
		py - total <0.1%, fcfg > dssmn,	68.58	93						
		on dry fractures > dct-qtz fcfg.	70.41	90						
		cp - traces, fcfg + dssmn	72.24	87						
		12.16-12.30m ⟩ augite porphyry.	75.29	106						
		12.54-13.18m ⟩ similar to 3.05-9.03m but	78.03	93						
		fewer sulphides.	78.64	77						
		15.20m contc sharp but irregular.	81.38	99						
15.20	20.66	Augite Porphyry	82.91	81	209	15.20	18.00	2.80	422	1
		similar to 3.05-9.03m but	84.43	99	210	18.00	20.66	2.66	521	3
		- less bronze color biot - looks more	87.48	100						
		sericitized.	90.53	100						
		- much less sulphides.	93.57	100						
20.66	25.30	Hornfels	96.62	96	211	20.66	23.47	2.81	466	2
		similar to 9.03-15.20m but fewer sulphides	98.76	97	212	23.47	25.30	1.83	824	3
		qtz - dct fcfg ≤ 1/2%	101.80	104						
25.30	30.74	Augite Porphyry	103.33	44	213	25.30	28.30	3.00	2741	13
		similar to 3.05-9.03 but	104.24	64	214	28.30	30.74	2.44	1793	6
		almost no bronze colored biot, except	105.46	25						
		at 30.4-30.55m.	106.07	21						
		cp - 0.3%-0.4%, associated with po	106.68	46						

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-2

SHEET 3 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Ay ppb
		-dsmn > fcfg	107.59	71						
		mafics - less chloritization	108.81	50						
		po - 0.2% dsmn > fcfg	110.33	80						
		- on dry fcfg & qtz-clct fcfg	111.25	128						
		patches and short sections of brownish	111.86	111						
		hornfels 25.4-25.5m, 26.05-26.16m,	113.39	84						
		29.06-29.71m, also other patches forming	116.43	96						
		less than whole core thickness.	119.48	100						
30.74	34.90	Hornfels	122.53	100	215	30.74	32.61	1.87	1917	24
		brownish grey	124.66	94	216	32.61	34.90	2.29	1697	13
		po and cp in qtz-clct fcfg, each ≤ 0.5%	126.19	101						
		little py	129.24	102						
34.90	47.85	Augite Porphyry.	131.37	102	217	34.90	38.40	3.50	2044	24
		similar to 3.05-9.03m but	133.20	78	218	38.40	41.88	3.44	3108	9
		no bronze colored biot to 36.3m.	135.94	91	219	41.88			1398	5
		cp and po in qtz-clct fcfg	138.99	90	220		47.85		1492	13
		cp, po and py on dry fractures, py > po > cp.	141.12	92						
		cp - 0.4% to 0.5%	144.17	93						
		after 36.3m - bronze biot ≤ 2%	147.22	100						
		after 38.5m - qtz-clct fcfg decreasing.	149.33	98						
		samples 219 and 220 are spilled box 8.	150.37	99						
		- all same rock type, last 30cm of	152.70	97						
		smpl 220 not spilled.	END							
47.85	50.40	Hornfels			221	47.85	50.40	2.55	544	11
		brownish grey								

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-2

SHEET 4 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		1% qtz-clct fcfg, avg 1 mm, up to 4 cm.											
		- trace po, 0.1% cp.											
50.40	64.70	Augite Porphyry			222	50.40	53.40	3.00	945	9			
		similar to 3.05-9.03m			223	53.40	56.40	3.00	1544	13			
		po ≤ 0.2 to 0.3%, dsmn ≤ fcfg			224	56.40	59.44	3.04	893	11			
		cp 0.1% to 0.3%, dsmn > fcfg			225	59.44	62.45	3.01	1622	19			
		clct-qtz fcfg, ½%, avg 1-2 mm.			226	62.45	64.70	2.25	2015	28			
		56.4-57.75m - large mafics appear sericitized											
		after 54.0m - cp mainly on dry fcfg ± po ± py											
		after 64.0m - decrease in po and increase											
		in py.											
64.70	66.54	Diabase(?) Dyke			227	64.70	66.54	1.84	629	8			
		fine grained.											
		1% clct-qtz fcfg, avg 1-2mm											
		py > po 0.1% py.											
		po traces											
		med. grey.											
66.54	70.10	Augite Porphyry			228	66.54	70.10	3.56	1291	13			
		similar to 3.05-9.03m											
		mafics chloritized but otherwise has											
		fresh appearance.											
		cp > py > po, cp 0.2%											
70.10	72.13	Diabase(?) Dyke			229	70.10	72.13	2.03	132	6			
		similar to 64.70-66.54m but feldspars visible											
		2% barren qtz-clct fcfg											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-2

SHEET 5 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		trace py > po, dsmn + fcfg											
72.13	75.15	Augite Porphyry			230	72.13	75.15	3.02	1576	16			
		med grey, similar to 3.05-9.03m but											
		mafics and feldspar phenocrysts											
		sericitized, alignment of phenocrysts.											
		py - fcfg >> dsmn total ≤ 0.5%											
		po - trace with py fcfg											
		cp - 0.2% to 0.3% with py fcfg especially											
75.15	78.81	Hornfels			231	75.15	78.81	3.66	1561	21			
		brown, fine grained.											
		qtz fcfg - 2% to 3%, avg. hairline to 1mm,											
		up to 3cm.											
		py - fcfg - 0.5% to 0.6%, dry fcfg > with qtz											
		fcfg, also dsmn.											
		po - trace fcfg											
		cp - 0.2% - 0.3% fcfg with qtz.											
		75.58-76.22 - Augite porphyry, same as 72.13-75.15m.											
78.81	82.15	Augite Porphyry			232	78.81	82.15	3.34	1994	37			
		similar to 72.13-75.15m but											
		mafics chloritized, short sections (few cm)											
		sericitized											
		py - 0.3 to 0.4%, dsmn, on dry fractures, with qtz fcfg											
		cp - 0.3%, dsmn, on dry fractures, with qtz fcfg											
82.15	83.94	Hornfels			233	82.15	83.94	1.79	1816	27			
		brown											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-2

SHEET 6 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		py fcfg >> dsmn, fcfg as dry coatings and with clct-qtz 0.2%-0.4%											
		cp 0.3% fcfg with clct.											
		clct ± qtz fcfg - larger fcfg usually barren											
		83.11 - 83.54m - Augite porphyry - same as 72.13-75.15m.											
83.94	85.32	Andesite (Augite porphyry ?).			234	83.94	85.32	1.38	1452	23			
		fine grained, med. to dark grey.											
		- looks very much like augite porphyry but finer grained, fewer mafics and mafics are smaller, avg 2mm.											
		mafics - chloritized.											
		py 0.4% dsmn & fcfg - dry fcfg + in qtz-clct fcfg.											
		cp 0.2% with a few sections 7 0.4% as fcfg ± qtz ± clct.											
85.32	87.18	Hornfels - brown			235	85.32	87.18	1.86	3567	67			
		py 0.3% dsmn, on dry fractures, in qtz-clct fcfg.											
		cp 0.2%-0.3%, dsmn, on dry fractures, in qtz-clct fcfg.											
87.18	102.00	Andesite (Augite porphyry ?)			236	87.18	90.18	3.00	1642	50			
		same as 83.94 - 85.32m, fine grained.			237	90.18	93.18	3.00	1831	37			
		mafics often sericitized			238	93.18	96.18	3.00	1482	93			
		cp 0.2% - 0.3%			239	96.18	99.18	3.00	2221	45			
		93.53 - 93.84m - silica flooding, both white and grey silica, ≤0.1% py			240	99.18	102.00	2.82	2327	42			
		gradual change to hornfels, increasing silica and sericitization.											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-2

SHEET 7 OF 7

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
102.00	106.85	Hornfels - brown			241	102.00	104.24	2.24	1774	35			
		core very broken up, poor recovery.			242	104.24	106.85	2.61	1639	60			
		2 large qtz veins with trace py, 4cm + 12cm wide											
		cp - 0.1% - 0.2%											
		py - 0.1% 0.2%											
106.85	152.70	Andesite (Augite Porphyry ?)			243	106.85	109.85	3.00	1526	26			
		similar to 83.94 - 85.32m			244	109.85	113.39	3.54	1803	38			
		med-dark grey			245	113.39	116.43	3.04	1516	20			
		py ≤0.2%-0.3%, dsmn > fcfg (dry)			246	116.43	119.48	3.05	2543	66			
		cp 0.2%-0.3%, dsmn, on dry fractures and			247	119.48	122.53	3.05	2656	85			
		in qtz-clt ffg.			248	122.53	125.53	3.00	3054	61			
		fine to apnc matrix			249	125.33	128.54	3.01	1827	43			
		po - traces dsmn			250	128.54	131.37	2.83	2598	53			
					251	131.37	134.37	3.00	1964	58			
		short (20cm-30cm) sections, hornfelsic			252	134.37	137.35	2.98	1890	46			
		appearance - appears to be hornfelsed			253	137.35	140.35	3.00	1659	40			
		augite porphyry. - total 2m in first			254	140.35	143.35	3.00	2482	38			
		10m of interval.			255	143.35	146.35	3.00	1660	41			
		after 130.60m - occasional epdt selvages			256	146.35	149.35	3.00	1506	36			
		with qtz-clt ffg.			257	149.35	152.70	3.35	1931	50			

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-3

PROPERTY: CAMP

LOCATION: B.C.

ELEVATION:

COORDINATES: 5000N 5625E

LENGTH: 152.40 m

	BEARING	INCLINATION
COLLAR	45°	-45°
152.40m		-46°

CORE SIZE: NQ

COMMENCED: FEB. 20, 1991

COMPLETED: FEB. 22, 1991

LOGGED BY: M. HOLTBY

SAMPLED BY: J. BACON

CORE STORED AT: On the property at 4975N - 5575E

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
0	21.95	Casing - no core	0	To									
21.95	69.86	Volcanic - Chlorite Alteration	21.95	0	173258	21.95	24.69	2.74	83	7			
		Dark blackish green	22.56	20	259	24.69	27.69	3.00	39	4			
		Magnetite - dssmn 10% to 20+%	24.69	91	260	27.69	30.70	3.01	7	3			
		- fcfg 3% to 5%	25.91	61	261	30.70	33.70	3.00	20	6			
		py - dssmn traces, fcfg 0.1% to 0.2%	28.35	93	262	33.70	36.70	3.00	8	1			
		Strongly and pervasively chloritized.	31.39	99	263	36.70	39.70	3.00	1158	11			
		clct - fcfg ± mgnt 1% to 3%, occasional	34.44	98	264	39.70	42.70	3.00	119	9			
		5% over 1m intervals	37.49	102	265	42.70	45.70	3.00	30	5			
		- highest py concentrations are in	39.32	102	266	45.70	48.70	3.00	12	4			
		clct fcfg.	41.45	100	267	48.70	50.95	2.25	69	33			
		28.65-32.0 m - occassional epdt with clct	44.50	94	268	50.95	52.54	1.59	53	4			
		fcfg and pervasive epdt as alteration			269	52.54	55.54	3.00	81	9			
		of feldspars.	47.55	100	270	55.54	57.30	1.76	88	11			
		after 32.0m - occassional epdt alteration	50.29	93	271	57.30	59.18	1.88	57	4			
		of feldspars.	53.34	100	272	59.18	62.17	2.99	165	18			
		52.54-55.54m - fault, crushed-rock, magnetite,	56.39	98	273	62.17	65.17	3.00	150	32			
		clct; slickensides	59.44	100	274	65.17	67.36	2.19	59	7			
		58.85m - 5cm syenite fragment	62.48	98	275	67.36	69.86	2.50	30	3			

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-3

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb
		59.18 - 69.86m - fault - crushed rock, magnetite,	65.84	103						
		fragments of clct fcfg,	67.36	69						
		gouge	68.88	101						
69.86	76.67	Diorite	71.32	61	276	69.86	72.54	2.68	115	21
		dark grey, mottled appearance	72.54	54	277	72.54	74.98	2.44	186	5
		strong and pervasive chloritization of mafics	74.98	26	278	74.98	76.67	1.69	107	5
		py - trace dsmn	76.50	66						
		- fcfg ± qtz ± clct total 0.2% to	78.03	109						
		spotty 0.3% in sections of thick fcfg (-	79.55	88						
		not common, only over a few cm).	81.08	107						
		po - trace	82.60	94						
		hmtt - ≤1% fcfg, spotty, usually on dry	85.04	78						
		fractures	87.48	82						
		qtz ± clct fcfg ≤ ½%	88.09	80						
		- pervasive weak K-spar alteration of diorite	89.61	25						
		adjacent to syenite.	90.22	25						
		syenite - veinlets <1cm, also a short	90.83	43						
		sections (few cm) where often has	92.35	77						
		fault or fracture contacts with diorite	93.88	76						
		- epdt fcfg up to 10%	95.40	88						
		- py - 0.2% fcfg ± hmtt ± qtz ± clct	98.15	50						
		- dsmn ≤0.1%	99.97	66						
		core very broken up over whole interval.	102.11	58						
			105.16	100						
			108.20	100						

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-3

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
76.67	99.47	Feldspar Porphyry - Fault Zone	111.25	103	279	76.67	79.55	2.88	271	97			
		- similar to unit at start of hole 91-4	114.30	102	280	79.55	82.60	3.05	200	23			
		but stronger chloritization	117.35	98	281	82.60	85.04	2.44	12	5			
		- occasionally large feldspar phenocrysts	119.79	89	282	85.04	88.09	3.05	13	6			
		visible.	122.83	93	283	88.09	90.83	2.74	25	6			
		- pervasive and strong chloritization	125.88	100	284	90.83	93.88	3.05	67	5			
		76.67-84.35m (approx.) - pulverized, mylonitic	128.93	100	285	93.88	96.40	2.52	75	2			
		- mgnt 5%-15%.	131.98	100	286	96.40	99.47	3.07	104	16			
		- py trace	135.03	100									
		81.0-85.0m - most magnetite weathered to	138.07	103									
		hmtt.; gouge common	141.12	100									
		- 2% to 3% fgmts of clt ± qtz fcfg,	142.65	95									
		up to 1cm width.	145.08	75									
		84.35-99.47m - mylonitic, core very broken up,											
		5% fgmts clt ± qtz fcfg, barren.											
		last 75cm - black fault gouge.	148.23	100									
99.47	129.40	Hornfels	151.18	102	287	99.47	102.47	3.00	64	9			
		- starts greenish brown, changes to	152.40	102	288	102.47	105.50	3.03	122	10			
		med. grey to greenish grey.	END		289	105.50	108.50	3.00	140	12			
		py - tr. to 0.2%, dsmn > fcfg (on dry fractures).			290	108.50	111.50	3.00	97	15			
		discontinuous qtz-clt fcfg ≤3%, barren.			291	111.50	114.50	3.00	114	28			
		very fine grained.			292	114.50	117.50	3.00	87	28			
		108.10-108.90m - fault, gouge and crushed rock.			293	117.50	120.50	3.00	127	36			
		118.75-118.83m - 5% py, fcfg along core.			294	120.50	123.50	3.00	15	7			
		121.75-122.83m - 25% fault gouge, remained broken up.			295	123.50	126.50	3.00	135	6			

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-3

SHEET 4 OF 4

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		last 4 to 6m - not as strongly hornfelsed.			296	126.50	129.90	3.40					
		- very fine-grained sediment.											
129.90	140.68	Black clastic - graphitic sediment			297	129.90	132.90	3.00	64	8			
		very fine grained.			298	132.90	135.90	3.00	73	28			
		1st metre transition from grey to black color.			299	135.90	138.90	3.00	115	8			
		py - tr to < 0.1% dssmn and fcfg with clct											
		clct fcfg - 2%-3%, discontinuous.											
140.68	141.18	Hornfels			300	138.90	141.18	2.28	58	8			
		greenish grey sediment, weak hornfelsing											
		very fine grained											
141.18	142.00	Black clastic			301	141.18	145.80	4.62	72	9			
		- smas 129.90 - 140.68 m.											
142.00	145.80	Hornfels - brownish grey, otherwise											
		smas 140.68 - 141.18											
145.80	152.40	Arkosic Sediment			302	145.80	149.10	3.30	56	1			
		Grey, in part hornfelsed			303	149.10	152.40	3.30	61	2			
		avg. grain size 0.3-0.5mm, up to 1mm.											
		massive appearance - no banding or bedding											
		no obvious volcanic fragments but											
		many feldspar fragments											
		clct fcfg ± a little qtz 3%-4% with											
		trace py											
		py - rare trace dssmn											
		150.40m to end - hornfelsed											
		151.20m to end - 10% spotty black color											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-4

SHEET 1 OF 4

PROPERTY: CAMP

LOCATION: B.C.

ELEVATION:

COORDINATES: 5300N 5500E

LENGTH: 66.14 m

	BEARING	INCLINATION
COLLAR		-90°

CORE SIZE: NQ

COMMENCED: FEB. 22, 1991

COMPLETED: FEB. 23, 1991

LOGGED BY: M. HOLTBY

SAMPLED BY: J. BACON

CORE STORED AT: On property at 4975N - 5375E.

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
0	9.75	Casing - no core	0	to									
9.75	14.87	Feldspar Porphyry	9.75	0	173304	9.75	12.80	3.05	158	19			
		Feldspar phenocrysts - greenish white	11.28	33	305	12.80	14.87	2.07	105	6			
		subhedral, large crystals avg 0.5 to	12.80	103									
		0.8 ~~cm~~ and up to 1.5 cm, aligned,	13.72	83									
		parallel to C.A., 15%, weakly	14.33	82									
		chloritized.	17.37	78									
		-Also 15% smaller phenocrysts,	19.81	76									
		avg 2 mm, weakly chloritized	21.64	31									
		Biotite - 5+%, bronze color to dark brown,	22.56	48									
		interstial.	25.60	94									
		Magnetite - 5% to 10% dsmn.	26.52	82									
		Py - Tr., dsmn	28.96	89									
		from 13.5m - strong chloritization of	31.39	59									
		feldspars, soft, green color,	33.53	91									
		becoming increasingly less distinct	35.66	98									
		down the hole as overall grain	38.40	95									
		size appears to decrease	41.15	84									
		(alteration effect?) & mgnt increases.	44.20	103									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-4

SHEET 2 OF 4

FROM	TO	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM	SAMPLES TO	SAMPLES LENGTH	ASSAYS Cu ppm	ASSAYS Au ppb.			
		14.65-14.87m - barren qtz-minor clct vein	46.02	89									
14.87	27.48	Volcanic - Biotite - Chlorite Alteration	47.55	77	306	14.87	18.00	3.13	13	7			
		-strongly chloritized & biotitized	50.29	71	307	18.00	21.64	3.64	22	2			
		- mgnt - dsmn 10%-15%.	53.04	80	308	21.64	25.60	3.96	20	7			
		- bott - not obvious except over a few cm	54.25	64	309	25.60	27.48	1.88	65	19			
		with 20%-25% - spotty	56.08	87									
		- probable very fine-grained bott over	57.61	86									
		whole interval.	60.05	74									
		-chloritization - pervasive & strong.	61.26	58									
		py -dsmn, Tr.	63.09	87									
27.48	31.39	Feldspar Porphyry - Volcanic	64.01	54	310	27.48	31.39	3.91	16	3			
		similar to 9.75-14.87m but more	64.62	82									
		altered appearance - fine-grained	66.14	71									
		biotite	END										
		start of section - sheared, gouge											
		end of section - gouge, poor recovery,											
		fault(?) may have been about 1m.											
31.39	33.84	Volcanic - Biotite - Chlorite Alteration			311	31.39	33.84	2.45	165	12			
		smas 14.87-27.48m											
		32.90-33.24m - fault gouge, syenite fragments											
		& highly altered material											
		33.24-33.69m - 75% clct as fcfg or veinlets											
33.84	35.35	Feldspar Porphyry - Volcanic			312	33.84	35.35	1.51	612	11			
		similar to 9.75-14.87m but											
		strong shearing 40° to C.A.											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-4

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		pervasive epidotization											
		weakly magnetic											
35.35	45.55	Volcanic - Biotite - Chlorite Alteration			313	35.35	39.17	3.82	37	3			
		similar to 14.87-27.48m											
		blackish grey											
		spotty ≤1% pervasively epidotized feldspars											
		39.17-39.49m - syenite, pink			314	39.17	42.78	3.61	252	13			
		- not magnetic			315	42.78	45.55	2.77	122	7			
		-py 0.1% dsmn											
		-epdt 1% fcfg & pervasive as											
		envelopes about fcfg											
		-clct 2%-3% fcfg											
		40.31-40.95m (approx.) - syenite, smas 39.17-39.49m											
		42.03-42.78m - strong, pervasive epidotization											
		non-magnetic to weakly magnetic											
45.55	50.29	Syenite			316	45.55	47.55	2.00	525	9			
		pink, smas 39.17-39.49m			317	47.55	50.29	2.74	125	2			
		epdt - <1% fcfg & few pervasive patches											
		49.13-49.26m - strongly biotite-chlorite											
		altered volcanic											
50.29	57.10	Volcanic - Biotite - Chlorite Alteration			318	50.29	53.50	3.21	30	1			
		smas 14.87-27.48m			319	53.50	57.10	3.60	9	5			
		biotite more obvious											
		mgnt - 25+%											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-4

SHEET 4 OF 4

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
57.10	61.26	Syenite			320	57.10	60.40	3.30	113	6			
		pink, smas 45.55-50.29m											
		57.76-58.30m - biotite-chlorite altered volcanic, strongly magnetic											
		2/3 - smas 14.87-27.48m											
		1/3 - weaker magnetism, looks more like fine grained diabase(?) dyke.											
		58.55-59.20m (approx.)											
		1/10 - smas 14.87-27.48m											
		9/10 - weaker magnetism, appears to be fine grained diabase(?) dyke											
		59.95-60.40m (approx.) - diabase (?) dyke, fine grained											
61.26	62.89	Volcanic - Biotite - Chlorite Alteration			321	60.40	6289	2.49	51	7			
		smas 14.87-27.48m											
62.89	66.14	Syenite			322	62.89	66.14	3.25	147	5			
		smas 45.55-50.29m											
		64.37-64.75m - very finegrained, dark green dyke - diabase											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-5

SHEET 1 OF 3

PROPERTY: CAMP
LOCATION: B.C.
ELEVATION:
COORDINATES: 5400 N
5250 E

LENGTH: 84.43m

	BEARING	INCLINATION
COLLAR	45°	-60°

CORE SIZE: NQ
COMMENCED: Feb. 23, 1991
COMPLETED: Feb 25, 1991
LOGGED BY: M. HOLTBY
SAMPLED BY: J. BACON

CORE STORED AT: On property at 4975N-5575E

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu p.p.m	ASSAYS Au p.p.b.			
0	12.19	Casing - no core	0	TO									
12.19	25.57	Gravels and boulders	12.19	0									
		Boulders - diorite, syenite, andesite	17.37										
		Overburden & Till	20.42										
29.57	40.84	Black clastic - graphitic sediment	23.47		173323	29.57	32.00	2.43	103	13			
		-very graphitic at start of interval	24.38		324	33.53	36.50	2.97	198	21			
		py - fcfg & dsmn 1% to 2%	24.69	avg.	325	36.50	39.50	3.00	198	142			
		clct- qtz fcfg with py - 1% to 5%, up	24.99	15%	326	39.50	42.50	3.00	103	30			
		to 5cm wide	26.52										
		29.57-32.00m - may be a large boulder	28.35	0%									
		32.00-33.53m - gravel	29.57										
40.84	47.80	Hornfels	31.39		327	42.50	44.81	2.31	135	20			
		mix grey clastic sediment and brown	31.70	45	328	44.81	47.80	2.99	219	114			
		hornfels	32.00	50									
		py - fcfg & dsmn 1% to 2%	33.53	5									
		qtz - clct fcfg 2% to 3%	35.05	50									
		graphite in fractures - minor	35.66	120									
		47.42-47.80m - progressive increase in	38.10	60									
		silica, qtz veining 20%	38.71	90									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-5

SHEET 2 OF 3

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		py - 0.2% to 0.4% dsmn > fcfg	40.84	50	329	47.80	50.80	3.00	59	9			
47.80	62.05	Hornfels - but silicified or originally	41.76	66	330	50.80	53.80	3.00	118	12			
		very siliceous sediment	43.59	66	331	53.80	56.30	2.50	123	16			
		- pale brown and green	44.20	49	332	56.30	59.30	3.00	100	13			
		55.18 - 58.15m - epdt fcfg with	44.81	59	333	59.30	60.05	0.75	87	30			
		pervasive epdt as envelopes	46.33	37									
		Total epdt - 1% to 2%.	47.85	52									
62.05	64.53	Fault Zone in siliceous hornfels	50.90	102	334	60.05	64.53	4.48	97	89			
		blackish grey	53.34	99									
		black color - graphite in pulverized	55.78	96									
		matrix between siliceous hornfels	58.83	100									
		fragments	60.05	110									
		py - 1%	61.57	98									
64.53	84.43	Hornfels - Brown and Grey Intervals	62.18	70	335	64.53	67.67	3.14	100	23			
		64.53 - 69.60m - Brown in color mainly	63.70	91	336	67.67	69.60	1.93	83	25			
		1st metre - spotty chloritization	64.62	90									
		- chlorite - mainly in fcfg but	67.67	100									
		also pervasive about fcfg.	69.49	96									
		Total chlorite ≤ 1%	71.32	78									
		qtz - clct fcfg - 1% to 3%	72.24	90									
		py - 1% dsmn + fcfg.	74.37	96									
			76.50	88									
		69.60m - grey color, core very broken	78.03	85	337	69.60	72.24	2.64	98	33			
		up, slickensides on fractures,	80.47	96	338	72.24	74.37	2.13	135	14			
		gouge + graphite	83.52	100	339	74.37	76.73	2.36	103	6			

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-5

SHEET 3 OF 3

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		76.73 - 78.33m - fault zone	84.43	109	340	76.73	78.33	1.60	75	24			
		black color, core broken-up,	END										
		graphitic, especially on fractures,											
		slickensides.											
		82.75 - 83.02 m } barren cl/ct veins			341	78.33	81.33	3.00	104	11			
		83.18 - 83.24m } with very minor			342	81.33	84.43	3.10	53	5			
		83.77 - 83.85m } qtz, 45° to C.A.											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

PROPERTY: CAMP
LOCATION: B.C.
ELEVATION:
COORDINATES: 4900N 5975E

LENGTH: 213.36m

	BEARING	INCLINATION
COLLAR	225°	-60°
213m		-56°

CORE SIZE: NQ
COMMENCED: FEB. 25, 1991
COMPLETED: FEB 28, 1991
LOGGED BY: M. HOLTBY
SAMPLED BY: J. BACON

CORE STORED AT: On property at 4975N-5575E

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	FROM m	TO m	LENGTH m	Cu ppm	Au ppb			
0	6.10	Casing - no core	0	To									
6.10	6.18	Augite Porphyry (Dacitic Appearance)	6.10	0	173343	6.10	9.68	3.58	74	16			
		grey, matrix - siliceous and apnc.	8.23	63									
		mafics - 5%, up to 1.5cm.	9.75	123									
		- sericitized, almost colorless to	10.67	104									
		brownish on core (blackish on	13.72	95									
		broken surface).	17.07	101									
		feldspars - 25+%, vague shapes.	19.51	73									
		py - 0.2% dssmn > fcfg	22.56	98									
6.18	7.15	Hornfels	23.16	50									
		- brown, very siliceous	26.21	96									
		py - dssmn <0.1%, tr. on dry fractures	26.82	85									
		qtz - clct fcfg 0.25%-0.3%	28.65	90									
		7.15m cntc - 45° to C.A., sharp, irregular.	30.18	99									
7.15	9.68	Augite Porphyry (Dacitic Appearance)	32.61	86									
		smas 6.10-6.18m but stronger sericitization	34.44	97									
		of mafics	34.75	100									
		9.33-9.45m - brecciated	35.66	82									
9.68	9.92	Hornfels - brown, brecciated	38.71	100									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 2 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	FROM m	TO m	LENGTH m	ASSAYS Cu ppm	Au ppb			
9.92	10.15	Augite Porphyry (Dacitic Appearance)	41.76	100									
		s.m.a.s 7.15-9.68	44.81	99									
10.15	12.60	Hornfels - brown	46.63	95	344	9.68	12.60	2.92	274	5			
		0.1%-0.2% py, lamn and on dry fractures	47.83	76									
12.60	15.90	Augite Porphyry (Dacitic Appearance)	48.46	57	345	12.60	15.90	3.30	70	8			
		s.m.a.s 7.15-9.68	49.68	41									
		15.60-15.69m band of brown hornfels	50.29	54									
15.90	32.15	Hornfels - brown	50.90	85	346	15.90	18.90	3.00	411	3			
		16.58-16.93m - 50% black color, black material	52.12	69	347	18.90	21.90	3.00	584	26			
		is pervasive (non-magnetic) alteration	54.56	95	348	21.90	24.90	3.00	1193	14			
		as envelopes around fractures.	56.08	93	349	24.90	27.90	3.00	978	41			
		after 21.9m - short black sections, total ≤ 5%	57.00	43	350	27.90	30.18	2.28	349	17			
		22.30-22.50m - py, fcfg 2%-3%	57.91	41	351	30.18	32.15	1.97	411	10			
		23.66-24.08m - Augite Porphyry	59.13	117									
		- mafics biotitized	60.05	43									
		- contacts appear gradational over 10cm	60.66	44									
		- fine felted feldspars near each contact	63.09	103									
		24.65m - cp + qtz + chlt fcfg	64.01	96									
		26.80m - " " " "	66.14	97									
		28.98m - po fcfg	67.36	95									
		31.70m - po + qtz + chlt fcfg	70.41	102									
		31.97m - cp fcfg	72.24	101									
32.15	34.03	Augite Porphyry (Dacitic Appearance)	75.29	99	352	32.15	34.03	1.88	484	1			
		similar to 6.10-6.18m but	77.72	97									
		mafics are strong and pervasively chloritized	79.86	100									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 3 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		32.64-32.84m - mafics strongly sericitized	81.38	89									
		po - dsmn, ½% decreasing down interval	82.60	31									
		cp - traces assoc. dsmn po, 0.1% over	84.12	56									
		first 20 cm.	85.65	95									
		py - ≤ 0.2% in dry fractures	87.17	103									
34.03	35.07	Hornfels - brown	88.39	95	353	34.03	35.07	1.04	176	1			
		rare traces cp assoc. with po	90.53	101									
35.07	42.62	Augite Porphyry (Andesitic Appearance)	91.14	89	354	35.07	38.10	3.03	223	2			
		mafics - strongly chloritized	93.57	100	355	38.10	41.10	3.00	118	1			
		-5%-10%, weak spotty epidotization	95.10	86									
		-occasional areas appear fragmental but	96.62	107									
		these may be highly sericitized with barely	99.36	98									
		recognizable mafics &/or feldspar phenocrysts	102.41	94									
		po - dsmn 0.1%-0.3%, higher at start	103.63	100									
		py - traces dsm po >> py	105.77	101									
		clct-qtz ~~fcfg~~ ½% ~~1%~~, avg 1 mm, up to 3 cm	107.29	98									
		after 38.30m - py > po	108.81	91									
		py - dsmn & in qtz-clct fcfg	110.64	95									
		po dsmn	112.78	98									
		38.40-38.79m - 30% qtz-clct veining	113.69	93									
		½% py in veins	114.60	100									
		42.62m - cntc, sharp, irregular, avg. 30° to C.A.	115.82	95									
42.62	45.50	Augite Porphyry (Andesitic Appearance).	118.26	98	356	41.10	44.44	3.34	108	5			
		similar to 35.07-42.62m but	121.01	98	357	44.44	45.97	1.53	83	3			
		15%-20% large, strongly chloritized mafics	123.44	102									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 4 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		py + po - traces dssmn	126.49	98									
		45.50m - cntc 20° to C.A., sharp	128.32	105									
45.50	45.97	Augite Porphyry (Andesitic Appearance)	131.37	94									
		mafics 5% at start decreasing to 2% at	132.89	94									
		end of interval, decrease in size also.	135.94	96									
		45.97m - cntc 20° to C.A.	138.99	100									
45.97	67.12	Chert	139.29	117	358	45.97	48.46	2.49	232	2			
		Brown, siliceous, very hard, apnc.	142.34	101	359	48.46	50.90	2.44	151	4			
		qtz + minor clct + po + py ffg ≤ 2%	145.39	90	360	50.90	53.90	3.00	636	4			
		po ffg > dssmn 1%-2%	146.00	49									
		py ffg >> dssmn 0.3%-0.4%	146.91	27									
		occasional bands of heavy dssmn po +/or ffg	147.83	35									
		plus py and cp.	149.05	14									
		cp - traces, highest content at 51.35m in	149.46	23									
		2cm band of 20%-25% po + 1% cp.	150.88	64									
		53.15m - 1cm band 25%-30% po + 1% cp	153.01	70	361	53.90	57.10	3.20	169	1			
		53.25m - 5% po ffg + 1% py + tr cp	153.62	98									
		54.86m - 1cm band 25%-30% po + 1% cp	155.45	107									
		cp - occurs as dssmn with po or in dry	157.28	93									
		discontinuous ffg	160.02	100									
		56.85 - 57.00 m - fault - brecciated	163.07	100									
		58.90m - 1mm discontinuous po ffg + cp	166.12	103	362	57.10	60.05	2.95	272	3			
		after 60.00m - hairline ffg of very fine-grained	169.16	98	363	60.05	62.33	2.28	281	2			
		black (non-magnetic) material, also	172.21	100									
		as pervasive alteration envelopes.	175.26	100									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 5 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		61.26m - po fcfg along C.A. for 5cm, 25%-30% po	178.31	98									
		1+% cp.	179.22	73									
		62.33-62.94 - Augite Porphyry (Dacitic)	181.97	85	364	62.33	62.94	0.61	554	3			
		siliceous, apnc matrix	183.49	94									
		10% mafics, chloritized, up to 1cm	185.32	87									
		15% mafics, avg 1mm + up to 2mm,	185.93	108									
		very strongly chloritized	188.06	103									
		2%-3% biott - sericitized	189.89	96									
		po - 0.2%-0.3%, 0.1% cp	193.24	96									
		62.94m cntc sharp but very irregular	195.07	73									
		63.42m - 2cm patch po with minor cp	196.60	100	365	62.94	65.94	3.00	571	8			
		65.22m - 5cm patch with 5% po fcfg + ½% cp	198.12	84	366	65.94	67.12	2.18	618	16			
		65.68m - 2cm area with 2% po fcfg + ¼% cp	200.25	100									
67.12	82.60	Augite Porphyry (Dacitic Appearance)	201.78	88									
		67.12 - 69.85m - very strongly sericitized	203.30	54	367	67.12	69.85	2.71	1042	26			
		mafics - only phenocryst outlines visible	204.22	65									
		po + cp > py, dssmn and on dry fractures	205.13	87									
		after 67.94m - black, very fine grained material in	207.57	74									
		hairline fcfg and pervasive alteration envelopes	209.40	99									
		after 69.85m - mafics rapidly change to	211.84	66	368	69.83	72.83	3.00	686	18			
		chloritized rather than sericitized	213.36	100	369	72.83	75.83	3.00	745	19			
		15%-20% large mafics, up to 1cm.	END										
		po 0.1%-0.2%, cp 0.1%-0.2%, higher											
		po + cp as fcfg rather than dssmn											
		py ≤0.2% as fcfg >> dssmn, with clct											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 6 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		after 75.83m - mafics rapidly change to sericitized			370	75.83	78.83	3.00	530	13			
		&/or argillaceous alteration.											
		(soft, white to cream color)											
		- few, random cm with chloritized mafics											
		78.15-78.63m - mixture of sheared and brecciated			371	78.83	82.60	3.77	412	22			
		chert with lesser dacitic-augite porphyry											
		3 cm clct vein 80° to C.A. at end of section.											
		79.10-80.55m - mafics more chloritized than sericitized											
		last 25cm core very broken-up.											
82.60	117.15	Cherty Sediments (Hornfels).			372	82.60	85.60	3.00	293	14			
		Brown			373	85.60	88.60	3.00	135	3			
		- somewhat like chert unit 45.97-67.12m but			374	88.60	91.60	3.00	343	10			
		noticeably softer; some hard, siliceous chert sections											
		qtz ± clct ffg 3%-4% ± po + py + cp											
		po - 0.2%-0.4% ffg >> dsmn, less than											
		in chert unit 45.97-67.12m											
		py - 0.2%-0.4% ffg; more than in chert unit											
		45.97-67.12m											
		cp - ≤0.1% ffg											
		- ½% black material (non magnetic) in hairline											
		fractures and as pervasive alteration envelopes											
		88.13-88.39m - quartzite, rounded to subhedral											
		grains, up to 0.3mm.											
		brown.											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 7 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	%	SAMPLES NO.	FROM m	TO m	LENGTH m	ASSAYS Cu ppm	Au ppb			
		94.60m - 1cm qtz vein, 20° to C.A., 10% po,			375	91.60	94.60	3.00	609	6			
		30% py mainly as selvages			376	94.60	97.60	3.00	509	5			
		-general decrease in sulphides down interval			377	97.60	100.60	3.00	400	4			
		-often greyish rather than brown color			378	100.60	103.60	3.00	212	3			
		after 100m, grey not as cherty.			379	103.60	106.60	3.00	313	3			
		-banding 60°-70° to C.A. - color bands that are			380	106.60	109.60	3.00	349	4			
		generally irregular in outline			381	109.60	112.60	3.00	301	13			
		-generally as much po as py by cp assoc			382	112.60	115.60	3.00	390	13			
		with po, not with py.			383	115.60	117.15	1.55	210	1			
117.15	119.16	Clastic Sediment - grey			384	117.15	119.16	2.01	64	1			
		½ clct ± qtz fcfg plus trace po											
		po - 0.1%-0.2% dsmn											
119.16	119.71	Augite Porphyry (Dacitic Appearance)			385	119.16	119.71	0.55	290	2			
		smas 67.12-69.85m											
		mafics - very strongly sericitized, light brown											
		po 0.2%, cp 0.1%, py 0.2%-0.3% fcfg											
119.71	120.41	Hornfels - brown			386	119.71	120.41	0.70	411	6			
		5% of interval cherty											
		2%-3% clct fcfg with py & po											
		py 0.2%-0.3% fcfg; spotty po 0.1%											
120.41	120.79	Augite Porphyry (Dacitic Appearance)			387	120.41	120.79	0.38	704	11			
		first 14cm highly sericitized - smas 67.12-69.85m											
		remainder - mafics strongly chloritized											
		sulphides mainly in chloritized section											
		2 clct-qtz veinlets with py, po, cp, sp - 2 & 3mm each											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m.	ASSAYS Cu ppm	ASSAYS Au ppb			
		py 0.3%, cp 0.2%, sp 0.1%											
120.79	125.00	Clastic Sediment			388	120.79	123.44	2.65	375	17			
		very fine grained, grey and brown sections			389	123.44	125.00	1.56	395	3			
		120.79 - 120.95 m - brown											
		120.87 m - 3 mm clct-qtz ffg, 45° to C.A.											
		py, sp, cp, po											
		120.95 - 122.82 m - grey											
		122.82 - 125.00 m - brown, 5% grey											
		1% - 2% po dssmn, 0.2% - 0.3% ffg											
		py - 0.1% - 0.2%											
		cp ≤ 0.1%, esp over last 40 cm.											
125.00	126.00	Augite Porphyry - (Dacitic Appearance)			390	125.00	126.00	1.00	780	5			
		apn, siliceous matrix											
		mafics - strongly chloritized											
		po - 0.5+% dssmn with assoc. cp 0.1% - 0.2%											
		last 10 cm mafics strongly sericitized, py 0.5%											
		ffg; py > po > cp											
		126.00 m cntc - 45° to C.A.											
126.00	133.14	Cherty Sediment			391	126.00	129.00	3.00	811	13			
		brown, white and grey sections			392	129.00	132.00	3.00	370	4			
		po - ffg > dssmn, 1+%; assoc cp 0.1% - 0.2%			393	132.00	133.14	1.14	878	8			
		129.00 - 129.17 m - white band, apnc siliceous											
		matrix with very fine grained feldspars(?)											
133.14	140.34	Clastic Sediment			394	133.14	136.14	3.00	395	15			
		fine grained; mainly brown but also grey down interval.			395	136.14	139.14	3.00	524	7			

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 9 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	FROM m	TO m	LENGTH m	ASSAYS Cu ppm	Au ppb			
		grains avg. 0.1mm - 0.2mm											
		fine grained mafics (1%) in matrix											
		po - dssmn 0.1%, fcfg 0.2%											
		cp - with po fcfg ≤ 0.1%											
		clct fcfg ½%; py fcfg 0.2%											
		after 139.82m - cherty, brown			396	139.14	140.34	1.20	548	4			
		py > po > cp; py 0.5% fcfg											
140.34	143.04	Augite Porphyry (Dacitic Appearance)			397	140.34	143.04	2.70	78	5			
		mafics - chloritized and sericitized (could also											
		be argillaceous alteration).											
		po 0.1% dssmn > fcfg, rare tr. cp											
		py ≤ 0.1% on dry fractures											
		2% clct patches up to 4mm											
		20% angular to rounded white ~~siliceous~~											
		fragments, avg ≤ 1mm, a few look like feldspars											
143.04	143.71	Cherty Breccia - brown			398	143.04	144.74	1.70	33	5			
		fragments avg. 3 cm.											
		trace py fcfg											
143.71	144.40	Augite Porphyry - (Dacitic Appearance)											
		po - traces dssmn											
144.40	158.65	Cherty - brown			399	144.74	147.83	3.09	226	28			
		144.40 - 153.65m - fault (?) chert breccia			400	147.83	150.88	3.05	520	8			
		144.40 - 144.74m - tr. cp dssmn			401	150.88	153.84	2.96	217	30			
		144.60 - 144.71m - clct-qtz veining											
		core very broken up, breccia appearance in larger core pieces											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb		
		py, po + cp - all tr fefg + dsmn										
		black, very fine-grained material (non-magnetic)										
		as hairline fefg and pervasive alteration envelopes.										
		total 1% - 2%.										
		after 153.65m - massive appearance										
		153.84-154.24m - po + cp 0.2% fefg			402	153.84	155.98	2.14	1312	39		
		157.18-158.33m - 10% clct + black material fefg			403	155.98	158.63	2.67	1080	89		
		158.33-158.48m - 20% clct ± clay fefg										
158.65	161.53	Augite Porphyry (Dacitic Appearance)			404	158.65	161.53	2.88	421	59		
		aphc, siliceous matrix										
		mafics - strong, pervasive biotitization										
		po + cp fefg + dsmn; po 0.2-0.3%, cp ≤0.2%										
		py - spotty 0.2% fefg										
		159.12-159.23m - gouge, clct, py, sp										
		clct 40%, py 15%, sp 0.5%										
		last metre mafics chloritized more than biotitized										
161.53	163.80	Cherty			405	161.53	163.80	2.27	575	18		
		whitish brown with 10% brown sections										
		po+cp fefg, po ≤0.3%, cp 0.1% assoc. with po.										
		py - fefg, 0.2% - 0.3%										
		mafics										
163.80	166.53	Augite Porphyry (Dacitic Appearance)			406	163.80	166.53	2.73	184	3		
		aphc, siliceous matrix										
		mafics largely sericitized (after biotitization(?))										
		- minor chloritized mafics.										

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 11 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		po+cp dsmn po ≤0.2%, cp <0.1%											
		py fcfg 0.2%-0.3%											
		165.23-165.32m - gouge, fault 65° to C.A.											
166.53	172.74	Clastic Sediment			407	166.53	169.53	3.00	1009	32			
		grey with white sections.			408	169.53	172.74	3.21	403	26			
		clct fcfg - 2%-5%, generally barren											
		py >> po > cp											
		py fcfg > dsmn, 0.4%-0.6% occassionally much											
		higher, eg 168.49-168.84m 5% py fcfg											
		po 1%; cp 0.2%-0.4%											
		170.90-172.74m - fault, gouge and crushed rock.											
172.74	177.13	Augite Porphyry (Dacitic Appearance)			409	172.74	175.74	3.00	1142	39			
		mafics - pervasive and strong biotitization			410	175.74	177.13	1.39	191	5			
		and sericitization; occassional 10-15cm											
		with chloritized mafics partially biotitized											
		py - fcfg >> dsmn avg 0.2%-0.4%, spotty 0.7%											
		po - dsmn > fcfg avg ≤0.2%											
		cp - assoc. po, ≤0.2%											
177.13	178.65	Hornfels - brown			411	177.13	178.65	1.52	141	8			
		clct fcfg ½%, py 0.2%, po ≤0.1% in fcfg.											
		177.55-177.75m - augite porphyry (dacitic appearance)											
178.65	180.00	Augite Porphyry - (Dacitic Appearance)			412	178.65	180.00	1.35	43	8			
		soft, grey, fine grained											
		vague mafics outlines - sericitized completely											
		clct fcfg 1%											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 12 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb.		
		py dsmn > fefg ≤0.2%										
		178.65-179.22m - fault, core very broken up										
		189.00m cntc - 50° to C.A., sheared surface										
180.00	194.32	Augite Porphyry (Dacitic Appearance)			413	180.00	183.00	3.00	87	19		
		apnc, siliceous matrix			414	183.00	186.00	3.00	154	26		
		mafics - biotitization overprint on chloritization			415	186.00	189.00	3.00	251	51		
		py-dsmn > fefg 0.3%			416	189.00	192.00	3.00	445	506		
		cp-dsmn traces			417	192.00	194.32	2.32	248	44		
		185.45m - 4mm clct vein 85° to C.A. with										
		cp, py and 50% fine grained black material										
		187.38-187.57m - smas 178.65-180.00 m										
		- 55° to C.A.										
		190.18-190.21m - 3cm clct + green clay vein										
		20° to C.A., tr. py & cp.										
		190.90-194.32 m - mafics chloritized, only 30% biotitized										
		cp ≤0.1%										
		190.56-190.61m - clct vein 40° to C.A., 5% epdt, tr. cp										
194.32	195.66	Augite Porphyry (Dacitic Appearance)			418	194.32	195.66	1.34	97	20		
		194.32-194.55m - v. fine grained, smas 178.65-180.00m										
		194.55-194.82m - soft, groundmass grains 0.1-0.3mm										
		5% mafics 1-2mm, altered feldspars (?)										
		194.82-195.59m - increase to 20% large mafics, up to 1cm										
		195.59-195.66m - smas 194.32-194.55m										
		- each zone grades into next zone.										

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

SHEET 13 OF 14

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	FROM m	TO m	LENGTH m	Cu ppm	Au ppb		
195.66	198.08	Clastic Sediment - grey										
		massive appearance			419	195.66	198.08	2.42	295	10		
		clct fcfg 1% with tr py, po, cp										
		py dssmn > fcfg, total 0.2%-0.3%										
198.08	204.22	Cherty			420	198.08	201.08	3.00	506	36		
		grey, few brownish sections			421	201.08	204.22	3.14	486	23		
		py fcfg > dssmn 0.3%-0.4%										
		po - starts as trace dssmn, after 199.40m - 1%										
		mainly in patches with cp ≤ 0.2%										
		198.49-198.53m - 50% clct veining, 45° to C.A.										
		1% py, tr. cp.										
204.22	213.36	Augite Porphyry (Dacitic Appearance)										
		highly altered.										
		204.22-205.17m - mafics just visible - highly biotitized			422	204.22	207.22	3.00	2746	82		
		and sericitized										
		- core highly fractured, often pulverized										
		- py 0.3%										
		205.17-208.85m - mafics visible, 30% chloritized,			423	207.22	208.85	1.63	1950	53		
		70% biotitized and weakly sericitized										
		py ≤ 0.3%										
		clct ± epdt fcfg 1/2%										
		groundmass softish.										
		208.85-209.40 m - same 194.32-194.55m but			424	208.85	211.52	2.67	587	33		
		does have less altered appearance,										
		slightly harder.										

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-6

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		209.40-211.52m - similar to 194.82-195.59m but											
		30% large mafics up to 2cm.											
		- py dssmn 0.1%											
		- last 35 cm progressively finer grained											
		and fewer mafics											
		211.52-213.36m - same 208.85-209.40m.			425	211.52	213.36	1.84	1524	60			
		py - 0.1%											
		clot ± epdt ffg with cp, po, py											

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-7

SHEET 1 OF 2

PROPERTY: CAMP

LOCATION: B.C.

ELEVATION:

COORDINATES: 5940N 4950E

LENGTH: 72.24 m

	BEARING	INCLINATION
COLLAR		-90°

CORE SIZE: NQ

COMMENCED: MARCH 3, 1991

COMPLETED: MARCH 4, 1991

LOGGED BY: M. HOLTBY

SAMPLED BY: J. BACON

CORE STORED AT: On property at 4975N-5575E

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	FROM m	TO m	LENGTH m	Cu ppm	Au ppb			
0	31.09	Casing - no core	0	70									
31.09	32.92	Trachyte	31.09	0	173426	31.09	32.92	1.83	68	3			
		med. green color	32.00	68									
		py - 0.1% dsmn	32.92	47									
		clct ± epdt fcfg 0.2% to 0.5%	33.22	20									
		epdt - weak pervasive alteration	35.66	6									
32.92	40.23	Black clastic - Graphitic Sediment	36.58	7	427	32.92	36.58	3.66	59	11			
	(approx.)	black, very graphitic	37.80	94	428	36.58	40.23	365	69	5			
		qtz ± clct veins - 3%	38.40	63									
		py - dsmn 0.2% to spotty 0.5%	40.54	29									
40.23	41.90	Trachyte	41.45	87	429	40.23	41.90	1.67	26	1			
	(approx.)	med. green	42.67	57									
		py ≤ 0.1% dsmn	43.28	44									
		poor core recovery	43.89	25									
41.90	43.28	Black clastic - Graphitic Sediment	44.50	95	430	41.90	43.28	1.38	86	1			
		qtz ± clct veins 3%	45.42	79									
		py - up to 1% dsmn + fcfy	46.33	62									
43.28	45.30	Trachyte	47.24	27	431	43.28	45.30	2.02	31	1			
		med. green	48.46	75									

SILVER STANDARD RESOURCES INC.

DRILL HOLE LOG

HOLE NO. 91-7

SHEET 2 OF 2

FROM m	TO m	DESCRIPTION	RECOVERY RUN	RECOVERY %	SAMPLES NO.	SAMPLES FROM m	SAMPLES TO m	SAMPLES LENGTH m	ASSAYS Cu ppm	ASSAYS Au ppb			
		trachytic texture only visible in about	49.38	87									
		15% of section	51.82	33									
		last 25cm. - chilled margin, fine grained	53.04	9									
45.30	46.29	Black clastic - Graphitic Sediment	55.47	9	432	45.30	46.29	0.99	61	6			
		py - 1% to 2% fcfg > dsmn	57.00	82									
46.29	47.55	Clastic sediment	57.91	82	433	46.29	47.55	1.26	48	1			
		-grey, fine grained	59.44	29									
		py - tr. dsmn	61.26	32									
		c/ct - 1% fcfg & veins	62.48	58									
47.55	61.79	Black Clastic - Graphitic Sediment	64.62	25	434	47.55	49.38	1.83	86	4			
	(approx.)	smas 45.30-46.29m	67.06	5	435	49.38	53.04	3.66	62	8			
		2% grey clastic sediment	67.97	27	436	53.04	56.76	3.72	68	6			
61.79	62.56	Trachyte	69.80	50	437	56.76	59.44	2.68	74	2			
		-poor recovery, mainly pebbles	72.24	29	438	59.44	61.79	2.35	54	5			
62.56	72.24	Black Clastic - Graphitic Sediment	END		439	61.79	62.56	0.77	63	1			
		smas 32.92-40.23m but			440	62.56	64.73	2.17	102	15			
		qtz ± c/ct fcfg + veining 5%			441	64.73	72.24	7.51	92	11			
		64.73 to 72.24m - brecciated - fault(?)											

APPENDIX 2

Rock, Soil and Drill Core Sample

Assay Certificates and Analytical Techniques

GEOCHEMICAL ANALYSIS CERTIFICATE

Silver Standard Resources Inc. PROJECT M1006 File # 91-0551 Page 1

400 - 1199 W. Hastings St, Vancouver BC V6E 3T5 Submitted by: MAX HOLTBY

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	Sample wt. lb
D-173151	1	71	2	77	.2	31	23	1236	4.64	2	5	ND	2	67	.2	4	2	128	1.05	.107	3	37	2.31	424	.20	2	3.07	.18	.85	1	1	5
D-173152	1	93	2	92	.1	80	24	1824	3.98	7	5	ND	1	98	.2	2	8	103	2.15	.097	4	86	1.97	413	.19	3	3.23	.21	1.21	1	3	5
D-173153	1	100	9	135	.1	79	19	1998	3.92	46	8	ND	1	58	.4	4	2	86	1.31	.061	5	39	1.66	295	.11	2	2.45	.10	.68	1	14	8
D-173154	1	174	13	145	.2	128	25	1696	4.16	44	5	ND	2	77	.2	7	4	65	1.30	.038	6	35	1.56	188	.07	2	1.95	.07	.48	1	5	14
D-173155	1	263	3	272	.2	142	19	2053	3.89	217	5	ND	2	250	.8	10	8	16	3.74	.008	7	9	1.12	47	.01	2	1.06	.02	.14	1	2	14
D-173156	1	65	2	112	.2	14	16	1340	4.78	23	5	ND	1	82	.2	3	2	114	2.03	.150	2	17	1.84	125	.11	2	2.02	.07	.39	1	6	16
D-173157	1	31	18	134	.7	17	18	1305	5.32	2	5	ND	3	55	.3	4	2	129	1.21	.174	2	22	1.85	128	.14	5	2.32	.08	.37	1	1	12
D-173158	2	60	4	83	.3	15	18	1141	4.57	2	5	ND	1	77	.7	5	2	136	2.13	.176	2	22	2.06	125	.11	4	2.12	.06	.24	1	3	13
D-173159	1	159	9	296	.2	97	21	2288	3.60	2	5	ND	2	86	1.9	4	2	89	2.83	.070	5	54	1.61	276	.12	2	2.14	.09	.54	1	6	11
D-173160	3	196	10	96	.1	127	25	1617	4.06	5	7	ND	1	94	.2	6	10	100	1.97	.057	3	48	1.68	215	.15	6	2.63	.16	.85	3	10	10
D-173161	3	202	6	81	.1	85	22	1600	4.28	20	5	ND	1	91	.2	4	2	68	3.15	.044	2	30	1.33	150	.12	2	2.14	.11	.62	1	11	11
D-173162	3	197	11	147	.4	167	22	2500	3.51	5	5	ND	2	95	.2	2	6	78	2.62	.039	2	37	1.13	224	.15	2	2.81	.23	.74	1	13	21
D-173163	2	102	7	119	.1	129	21	2433	3.40	2	5	ND	2	118	.6	2	2	92	3.48	.058	2	51	1.18	262	.17	2	2.60	.20	.67	1	8	20
D-173164	1	94	4	108	.1	97	20	5496	3.33	7	14	ND	1	99	.9	5	5	91	13.95	.094	2	62	1.26	170	.14	2	2.55	.18	.59	3	6	15
D-173165	1	127	4	72	.6	45	16	1633	3.52	2	5	ND	4	77	.7	4	7	80	2.70	.029	2	56	1.23	108	.16	2	2.04	.10	.38	1	7	18
D-173166	2	90	5	75	.1	62	17	1376	3.60	2	5	ND	1	117	.4	2	2	96	1.46	.041	2	45	1.17	261	.20	2	2.41	.17	.74	1	3	16
D-173167	1	87	11	65	.2	58	15	1253	3.41	2	5	ND	2	69	.5	3	2	79	2.10	.043	2	50	1.00	120	.14	5	1.81	.12	.44	1	5	17
D-173168	1	99	8	81	.1	132	29	2169	5.23	2	5	ND	1	143	.4	2	2	163	5.66	.110	2	254	3.40	565	.21	6	4.08	.17	1.29	1	2	15
D-173169	1	96	2	74	.1	143	30	1698	5.04	2	5	ND	1	102	.2	2	2	158	4.52	.104	2	282	4.04	545	.23	2	3.40	.03	1.18	1	3	12
D-173170	1	105	2	76	.1	152	29	1142	4.64	2	5	ND	1	114	.2	2	3	127	2.11	.110	2	259	3.70	485	.23	2	3.10	.05	1.31	1	2	15
D-173171	1	100	7	113	.1	106	22	1011	4.12	2	5	ND	1	73	.5	2	5	117	2.69	.092	2	136	2.38	129	.23	6	2.15	.04	1.33	1	7	17
D-173172	1	99	2	66	.2	166	29	1059	3.96	7	5	ND	2	149	.2	2	2	102	3.74	.111	2	260	3.05	237	.22	7	2.56	.05	.62	1	1	16
D-173173	1	110	2	63	.3	179	28	777	4.09	2	5	ND	2	66	.2	2	2	89	2.17	.121	2	248	3.42	268	.20	27	2.69	.04	.64	1	1	16
D-173174	1	109	6	63	.1	184	31	755	4.20	3	5	ND	2	121	.2	5	2	98	2.39	.120	2	245	3.58	217	.21	24	2.77	.05	.54	1	2	15
D-173175	1	121	2	62	.1	214	31	635	3.98	2	5	ND	1	63	.2	2	2	86	1.19	.119	2	239	3.40	370	.19	27	2.78	.07	1.08	1	1	19
D-173176	1	126	3	111	.3	115	20	1254	3.81	2	5	ND	3	85	.4	2	4	100	5.05	.078	3	94	1.92	138	.20	13	1.85	.04	1.08	1	6	14
D-173177	1	112	4	96	.1	214	32	1607	5.27	2	10	ND	1	211	.2	2	2	121	3.01	.114	2	232	4.31	402	.21	2	3.75	.04	1.86	1	2	16
D-173178	1	103	2	80	.1	179	29	1091	4.63	10	5	ND	1	111	.6	2	2	114	2.65	.105	2	195	3.64	166	.20	2	2.80	.04	.83	1	14	11
D-173179	1	95	2	84	.1	312	40	1048	5.13	11	7	ND	2	114	.2	2	2	111	1.73	.110	2	367	5.59	134	.21	2	3.64	.03	.72	1	4	17
D-173180	1	20	3	44	.1	29	17	717	3.52	2	5	ND	1	126	.4	2	2	108	3.19	.207	2	51	1.76	118	.14	4	2.10	.14	.32	1	2	18
D-173181	1	39	2	72	.1	33	16	680	3.22	4	5	ND	1	180	.2	2	5	99	3.73	.201	2	50	1.66	118	.12	2	2.20	.13	.34	1	1	16
D-173182	1	9	2	51	.1	19	16	850	3.62	2	5	ND	1	166	.2	2	2	135	3.60	.173	2	26	1.99	144	.14	2	2.14	.07	.38	1	2	20
D-173183	1	41	5	53	.1	27	16	868	4.03	8	5	ND	1	214	.2	2	2	146	3.75	.171	2	30	2.21	242	.15	2	2.39	.05	.61	1	12	17
D-173184	1	21	2	81	.1	24	20	1000	4.50	7	5	ND	2	133	.2	2	2	155	2.77	.163	2	49	2.76	106	.11	2	2.51	.04	.22	1	5	20
D-173185	1	63	2	478	.2	26	23	1009	4.96	2	5	ND	2	106	4.1	2	2	164	3.72	.145	3	56	3.03	85	.13	2	2.77	.04	.18	1	2	19
D-173186	1	293	2	96	.8	25	19	922	4.24	2	5	ND	2	76	.8	3	4	156	3.24	.180	2	33	2.27	90	.21	2	2.31	.05	.17	1	3	12
STANDARD C/AU-R	20	61	42	134	7.3	73	32	1080	3.99	42	17	7	40	54	19.0	14	21	58	.49	.095	40	61	.89	176	.08	38	1.89	.07	.14	13	474	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: MAR 4 1991 **DATE REPORT MAILED:** March 11/91. **SIGNED BY** .... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	Sample wt.
D-173187	2	52	2	52	.1	10	14	779	3.34	12	5	ND	1	72	1.1	2	2	123	3.31	.136	3	21	1.72	88	.16	10	1.97	.07	.17	1	4	17
D-173188	1	33	2	52	.3	20	16	732	3.38	21	5	ND	1	97	1.7	4	2	125	4.65	.128	3	26	1.83	23	.12	5	1.75	.04	.08	1	6	8
D-173189	1	175	2	103	.2	31	26	961	5.49	18	5	ND	1	87	2.4	2	2	126	2.89	.071	7	55	2.90	11	.07	2	2.98	.03	.06	1	5	12
D-173190	1	152	4	95	.1	32	22	897	4.62	7	5	ND	1	76	1.8	2	2	110	3.24	.075	9	44	2.41	42	.10	2	2.58	.04	.15	1	3	10
D-173191	1	162	11	101	.1	26	25	1058	5.62	12	5	ND	1	108	2.8	2	2	136	3.47	.075	8	49	2.70	113	.11	2	3.03	.05	.31	1	7	12
D-173192	1	110	5	87	.2	19	23	1034	5.65	9	5	ND	1	224	2.6	2	2	167	2.82	.077	4	41	2.48	408	.20	2	3.23	.06	1.03	1	3	18
D-173193	1	90	2	72	.2	23	18	1093	4.40	3	5	ND	1	156	1.6	2	2	149	4.69	.075	7	46	1.88	233	.20	2	2.40	.06	1.04	1	3	18
D-173194	1	76	2	79	.3	16	18	1037	4.12	5	5	ND	1	91	2.1	4	2	118	3.84	.087	8	32	1.80	237	.11	2	2.28	.05	.97	1	3	20
D-173195	1	82	2	62	.1	11	16	910	4.54	10	5	ND	1	113	1.1	2	5	109	3.82	.108	10	19	1.46	210	.11	2	2.18	.06	.76	1	11	18
D-173196	1	39	2	60	.1	1	16	1028	5.10	2	5	ND	1	104	2.1	3	2	109	4.72	.154	13	4	1.37	150	.08	2	2.15	.04	.37	1	6	6
D-173197	2	77	2	73	.1	9	16	998	4.78	6	5	ND	1	115	1.7	2	2	109	4.39	.130	10	21	1.62	98	.14	4	2.41	.06	.32	1	4	21
D-173198	2	85	5	64	.1	22	15	1031	3.87	2	5	ND	1	86	.8	2	2	90	6.23	.092	12	31	1.43	59	.07	2	1.81	.05	.31	1	1	18
D-173199	4	125	2	80	.1	31	17	886	4.11	2	5	ND	1	72	.8	2	2	100	3.45	.097	12	38	1.79	182	.14	2	2.27	.09	.79	1	3	13
D-173200	2	106	2	72	.1	22	16	732	3.94	2	5	ND	1	119	1.7	2	2	110	2.80	.079	9	36	1.64	195	.20	2	2.16	.08	.88	1	5	20
D-173201	2	98	2	61	.1	26	18	709	3.79	6	5	ND	1	70	1.3	2	2	116	3.50	.071	9	35	1.79	98	.20	5	2.01	.05	.47	1	35	8
D-173202	1	148	9	60	.1	28	31	951	5.74	4	5	ND	1	114	1.5	2	2	210	5.08	.074	5	58	3.03	24	.26	2	2.81	.04	.13	1	13	5
D-173203	2	101	2	72	.2	27	15	958	3.49	2	5	ND	3	104	1.3	2	2	89	7.26	.081	12	35	1.63	14	.21	2	1.88	.05	.10	1	5	7
D-173204	1	135	2	47	.2	28	24	682	4.04	6	5	ND	1	95	1.2	3	2	134	4.44	.070	5	57	2.19	33	.23	3	2.20	.08	.13	1	3	8
D-173205	5	302	2	33	.1	23	24	500	3.31	2	5	ND	1	72	.2	2	2	112	4.58	.142	2	28	1.50	46	.13	2	1.84	.06	.10	1	2	16
D-173206	13	646	3	49	.4	28	30	711	4.15	4	12	ND	1	79	1.4	3	5	144	5.92	.148	4	35	1.80	52	.16	2	2.25	.07	.13	1	4	20
D-173207	11	201	2	33	.1	69	14	453	2.70	13	5	ND	1	55	.8	2	2	80	2.87	.097	6	144	1.56	21	.18	2	1.58	.09	.06	1	2	20
D-173208	5	206	4	50	.1	54	20	722	4.75	5	6	ND	1	62	1.3	2	6	107	2.64	.127	7	118	2.11	21	.23	2	2.46	.08	.16	1	2	19
D-173209	12	422	3	34	.1	16	26	438	2.50	2	5	ND	1	66	.2	2	2	97	4.41	.155	3	14	1.27	33	.11	2	1.80	.07	.11	1	1	18
D-173210	15	521	3	37	.4	24	18	402	2.12	6	5	ND	1	66	.8	3	2	99	4.26	.148	3	16	1.17	54	.13	3	1.74	.08	.14	1	3	18
D-173211	5	466	2	45	.3	101	21	487	4.09	5	5	ND	1	24	1.7	2	2	99	1.35	.098	5	209	2.43	39	.24	6	2.18	.14	.31	1	2	16
D-173212	3	824	3	66	.9	71	16	644	3.29	14	5	ND	2	72	1.1	3	6	100	3.50	.088	6	174	1.89	17	.19	2	1.80	.05	.13	1	3	11
D-173213	2	2741	3	153	3.0	39	24	504	2.69	5	5	ND	2	85	1.6	2	17	100	4.29	.122	4	61	1.34	55	.14	2	1.82	.09	.15	1	13	18
D-173214	6	1793	7	94	.8	42	14	485	2.00	6	14	ND	1	111	1.1	2	12	76	4.22	.099	4	54	1.15	51	.14	2	1.31	.06	.12	1	6	14
D-173215	4	1917	2	85	.5	80	19	630	3.71	11	5	ND	1	46	1.8	2	21	111	2.48	.087	5	195	2.21	25	.22	2	1.99	.04	.12	1	24	13
D-173216	6	1697	6	91	1.2	86	20	691	4.10	11	5	ND	2	83	1.6	4	20	134	3.62	.096	6	226	2.43	45	.18	2	2.23	.05	.35	1	13	16
D-173217	2	2044	2	100	1.0	26	15	441	2.27	2	5	ND	1	75	1.1	2	8	95	4.16	.130	3	41	1.32	40	.13	2	1.59	.07	.13	1	24	26
D-173218	3	3108	2	159	2.8	24	24	435	2.58	6	5	ND	1	66	2.3	2	17	103	3.83	.139	3	36	1.40	52	.16	2	1.82	.07	.14	1	9	20
D-173219	6	1398	6	78	2.0	33	26	512	2.86	7	10	ND	1	108	1.2	2	15	110	4.44	.135	4	41	1.56	96	.14	4	1.98	.07	.19	1	5	16
D-173220	7	1492	5	87	1.6	27	26	445	2.64	10	5	ND	1	60	1.2	2	5	102	3.57	.142	3	37	1.41	54	.17	2	1.88	.08	.14	1	13	20
D-173221	6	544	2	42	.3	130	20	481	4.07	9	5	ND	1	70	1.4	2	2	110	1.93	.081	5	239	2.89	70	.19	2	2.52	.05	.67	1	11	15
D-173222	4	945	4	60	1.3	23	9	554	1.91	2	5	ND	1	86	.3	2	8	102	4.91	.133	5	52	1.62	14	.09	2	1.81	.07	.09	1	9	20
STANDARD C/AU-S	20	59	39	134	6.6	73	32	1128	3.92	42	20	7	40	53	18.8	15	19	58	.48	.091	40	58	.87	181	.08	34	1.87	.06	.13	12	462	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	Sample wt. lb
D-173223	4	1544	2	92	1.6	29	15	513	2.40	3	5	ND	1	88	1.4	2	5	108	5.96	.165	5	42	1.57	50	.15	6	2.39	.10	.15	1	13	18
D-173224	3	893	2	65	1.1	33	19	787	3.41	11	5	ND	2	164	1.0	3	7	164	7.63	.161	6	96	2.51	69	.07	2	2.32	.05	.16	1	11	19
D-173225	3	1622	4	82	1.7	35	21	648	3.37	10	5	ND	1	142	1.1	2	8	142	5.93	.158	6	84	2.17	78	.10	3	2.37	.07	.17	1	19	16
D-173226	1	2015	2	78	2.2	32	22	583	3.46	2	5	ND	1	87	1.0	3	10	117	5.14	.147	5	67	2.06	45	.19	2	2.37	.10	.12	1	28	13
D-173227	1	629	4	71	.8	19	26	943	5.30	6	5	ND	3	168	1.1	2	8	156	6.71	.105	8	29	2.53	59	.13	2	3.05	.03	.14	1	8	10
D-173228	2	1291	2	50	1.7	25	17	552	2.93	2	5	ND	1	97	1.0	2	7	119	6.33	.133	4	57	1.79	69	.16	2	2.16	.08	.14	1	13	16
D-173229	1	132	2	75	.1	33	29	1178	6.17	3	5	ND	1	90	.6	2	2	196	4.35	.118	9	43	2.82	42	.27	4	3.20	.03	.06	1	6	11
D-173230	3	1576	6	47	.9	23	22	534	3.38	2	5	ND	1	133	.2	2	13	113	4.39	.161	5	45	1.66	79	.11	3	2.01	.08	.21	1	16	21
D-173231	2	1561	2	36	1.2	25	24	498	3.86	9	5	ND	2	142	.6	4	4	105	3.55	.103	7	47	1.49	35	.15	4	1.87	.07	.14	1	21	18
D-173232	2	1999	3	37	.5	25	28	462	3.83	2	5	ND	1	83	.9	2	9	133	4.56	.150	5	51	1.66	78	.24	6	2.36	.10	.17	1	37	23
D-173233	5	1816	2	46	.8	30	26	855	4.07	15	6	ND	2	174	.6	5	12	133	8.35	.139	7	63	2.23	42	.06	2	2.31	.03	.15	1	27	10
D-173234	10	1452	2	28	.4	15	17	360	2.79	2	5	ND	1	95	1.2	4	4	122	3.61	.150	4	20	2.01	68	.21	9	2.10	.08	.20	1	23	12
D-173235	6	3567	2	32	.7	19	19	370	2.90	2	5	ND	1	73	.6	7	20	121	4.16	.113	7	20	1.27	25	.23	3	1.66	.08	.08	2	67	12
D-173236	3	1642	3	26	.6	16	16	430	3.08	2	5	ND	1	100	.9	2	15	125	4.07	.151	5	26	1.80	52	.14	7	1.94	.06	.15	1	50	18
D-173237	13	1831	2	36	.7	22	19	540	3.47	3	5	ND	1	189	.9	2	9	126	6.97	.142	4	33	1.73	166	.17	2	2.13	.06	.17	1	37	18
D-173238	2	1482	3	186	1.1	25	18	785	3.22	19	5	ND	1	232	2.2	2	2	99	7.84	.130	6	51	1.45	50	.08	2	1.58	.04	.16	1	93	16
D-173239	3	2221	2	44	.8	35	24	681	4.06	17	5	ND	4	127	1.1	6	18	155	6.24	.180	9	81	2.20	44	.17	3	2.24	.06	.15	2	45	16
D-173240	2	2327	3	43	.6	33	24	637	3.74	5	5	ND	1	145	1.2	4	17	147	5.02	.173	8	74	2.50	87	.18	4	2.30	.08	.19	1	42	16
D-173241	3	1774	3	38	.5	25	21	711	3.69	4	5	ND	2	163	1.0	2	7	108	6.37	.199	17	47	2.05	95	.15	3	2.21	.04	.11	1	35	8
D-173242	3	1639	2	42	.7	25	23	759	6.57	8	5	ND	3	106	1.8	3	13	124	5.61	.088	7	64	1.33	33	.18	2	1.63	.06	.09	1	60	6
D-173243	2	1526	2	36	.6	30	23	663	3.61	5	5	ND	3	147	1.5	7	2	147	7.07	.181	8	58	2.12	70	.23	5	2.35	.09	.18	1	26	15
D-173244	2	1803	7	53	.5	27	24	778	4.14	2	6	ND	2	139	.9	4	14	138	6.01	.153	8	50	2.03	43	.24	5	2.70	.06	.12	1	38	24
D-173245	2	1516	8	56	.3	25	24	755	4.38	8	5	ND	2	109	1.1	9	17	143	4.81	.161	9	45	2.15	43	.30	5	2.90	.10	.12	3	20	17
D-173246	2	2543	2	39	.7	31	18	399	3.26	6	5	ND	1	136	1.3	3	16	139	3.90	.171	8	56	1.87	49	.29	7	2.24	.07	.10	1	66	20
D-173247	1	2656	3	55	.4	29	19	384	3.29	2	5	ND	1	73	1.6	4	9	132	3.42	.166	7	48	1.48	36	.24	7	1.99	.05	.09	2	85	18
D-173248	3	3054	2	41	.4	40	20	424	3.20	5	6	ND	1	115	1.6	5	19	126	4.12	.147	6	51	1.50	35	.25	4	1.87	.06	.11	2	61	15
D-173249	2	1827	2	38	.3	31	17	404	3.19	2	5	ND	1	89	.8	2	8	141	3.23	.160	7	47	1.63	41	.29	5	2.05	.07	.14	1	43	18
D-173250	3	2598	7	52	.6	38	15	425	3.32	2	5	ND	1	71	1.4	2	20	140	2.92	.131	6	55	1.51	30	.27	3	1.81	.04	.11	1	53	17
STANDARD C/AU-R	20	59	36	134	7.2	74	32	1051	3.91	37	18	7	38	53	19.0	19	20	59	.47	.091	39	58	.85	182	.09	35	1.85	.07	.14	13	480	-

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Silver Standard Resources Inc. PROJECT M1006 File # 91-0552 Page 1

400 - 1199 W. Hastings St, Vancouver BC V6E 3T5 Submitted by: MARX HOLT BY

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	SAMPLE wt. lb
D-173251	2	1964	4	57	.6	31	17	628	3.59	5	5	ND	1	112	1.3	2	14	150	4.33	.139	5	51	1.84	53	.26	5	2.15	.04	.12	1	58	20
D-173252	1	1890	4	48	.8	28	17	730	3.72	2	5	ND	2	217	1.2	2	6	149	6.86	.135	5	56	2.05	38	.23	2	2.11	.03	.10	1	46	18
D-173253	1	1659	11	42	.5	33	22	703	3.90	6	5	ND	1	144	1.3	3	10	177	3.93	.146	5	72	2.26	48	.28	8	2.17	.05	.13	1	40	22
D-173254	1	2482	10	40	.4	35	20	801	3.72	6	9	ND	1	255	1.6	2	18	144	8.66	.126	4	70	2.18	45	.23	5	2.23	.03	.09	1	38	16
D-173255	1	1660	7	35	.2	30	18	501	3.70	2	6	ND	1	117	1.0	2	15	155	4.05	.156	5	57	1.91	40	.27	8	2.24	.04	.11	1	41	18
D-173256	1	1506	7	44	.3	23	20	626	4.13	2	5	ND	1	135	1.0	2	7	152	3.89	.132	4	46	1.92	56	.28	4	2.17	.04	.10	1	36	20
D-173257	1	1931	39	987	1.6	26	18	946	4.01	5	5	ND	2	138	5.1	2	18	170	6.31	.149	6	63	2.23	43	.25	16	2.11	.04	.11	4	50	21
D-173258	1	83	13	65	.1	81	53	716	12.46	4	7	ND	1	135	2.0	2	13	568	4.16	.001	2	70	2.14	29	.30	2	1.23	.04	.03	1	7	13
D-173259	1	39	2	66	.1	88	52	579	13.43	6	5	ND	2	127	2.2	2	2	602	2.08	.004	2	61	2.32	37	.30	2	1.24	.04	.03	1	4	22
D-173260	1	7	5	66	.1	93	52	587	12.57	2	5	ND	1	163	1.7	2	6	554	2.40	.001	2	63	2.54	52	.28	7	1.30	.05	.01	2	3	21
D-173261	1	20	8	64	.1	90	56	600	13.00	2	5	ND	1	129	1.1	2	13	545	2.65	.001	2	58	2.09	203	.25	2	1.13	.04	.03	1	6	20
D-173262	1	8	2	59	.2	78	45	1193	10.13	10	5	ND	1	317	2.4	2	2	454	10.58	.001	2	51	2.46	158	.24	5	1.19	.05	.02	1	1	20
D-173263	1	1158	4	57	.8	68	53	1587	9.27	15	5	ND	1	326	2.0	2	16	396	13.45	.002	3	46	2.44	139	.21	5	1.36	.05	.03	1	11	19
D-173264	1	119	2	75	.2	83	53	956	12.03	6	5	ND	2	260	2.0	2	2	508	7.82	.002	2	62	3.07	167	.31	2	1.61	.05	.05	1	9	21
D-173265	1	30	3	77	.1	75	48	901	12.20	2	5	ND	1	277	1.4	2	8	553	6.13	.002	2	78	3.15	52	.33	2	1.54	.07	.04	1	5	20
D-173266	1	12	14	76	.1	81	49	1228	11.06	7	6	ND	1	316	2.2	2	3	462	9.73	.002	2	70	3.41	38	.33	8	1.77	.06	.02	1	4	21
D-173267	1	69	7	59	.1	70	49	1165	10.01	11	5	ND	1	350	1.7	2	7	410	10.50	.001	2	25	3.35	130	.26	3	1.90	.06	.01	1	33	20
D-173268	1	53	10	66	.2	67	65	983	11.05	5	5	ND	1	308	2.0	2	3	442	7.57	.002	2	26	3.30	38	.30	2	1.69	.08	.01	1	4	10
D-173269	4	81	6	50	.1	60	58	1540	7.31	6	11	ND	1	490	2.3	2	8	315	17.06	.001	2	35	2.73	126	.23	2	1.48	.05	.01	1	9	20
D-173270	1	88	4	62	.1	63	53	1399	9.49	16	5	ND	1	440	1.7	2	3	426	13.23	.001	2	95	3.23	317	.27	6	1.72	.06	.02	1	11	13
D-173271	1	57	4	59	.1	64	51	1054	11.08	8	5	ND	1	311	2.2	2	8	494	9.11	.002	2	43	2.94	127	.28	5	1.40	.06	.02	1	4	11
D-173272	1	165	5	53	.2	61	67	1654	7.11	15	5	ND	1	380	1.4	2	2	336	19.48	.001	2	26	2.57	46	.18	4	1.56	.04	.01	1	18	17
D-173273	1	150	2	56	.1	71	44	1399	7.99	9	5	ND	1	331	1.6	2	2	358	14.42	.001	2	42	2.63	34	.21	2	1.51	.04	.01	1	32	19
D-173274	1	59	2	64	.2	64	49	1752	8.97	4	5	ND	1	345	2.2	2	10	390	17.13	.001	2	23	2.71	141	.12	3	1.80	.03	.01	1	7	10
D-173275	1	30	4	51	.1	81	54	1439	9.13	5	5	ND	1	349	1.5	2	2	316	14.15	.004	3	66	2.73	30	.11	2	1.53	.03	.03	1	3	14
D-173276	1	115	2	46	.1	17	52	1050	6.16	8	5	ND	1	217	1.4	2	3	174	7.84	.091	5	7	2.26	54	.10	7	2.05	.03	.09	1	21	10
D-173277	1	186	3	66	.2	18	29	1227	6.30	2	5	ND	1	217	.9	2	6	181	7.00	.152	8	8	2.69	45	.05	2	2.77	.03	.15	1	5	6
D-173278	1	107	2	52	.1	16	37	1006	6.03	6	5	ND	1	210	.9	2	5	172	5.36	.178	8	6	2.62	47	.03	3	2.78	.03	.16	1	5	7
D-173279	1	271	11	67	.3	58	49	1195	8.53	4	6	ND	1	333	2.3	2	12	357	9.91	.019	5	65	3.41	127	.19	4	2.01	.05	.06	1	97	19
D-173280	2	200	2	50	.1	49	29	945	6.14	2	5	ND	1	348	1.0	2	2	249	10.22	.044	2	58	2.79	76	.13	2	2.16	.03	.05	1	23	20
D-173281	1	12	2	60	.1	60	41	1045	7.85	5	5	ND	1	281	1.5	2	6	362	12.14	.008	2	57	3.52	18	.03	3	1.76	.01	.01	1	5	15
D-173282	1	13	2	55	.2	50	38	1112	7.62	6	5	ND	1	276	1.0	2	2	341	13.30	.004	2	46	4.16	13	.03	4	1.40	.01	.01	1	6	18
D-173283	1	25	6	62	.2	74	55	1064	10.69	6	5	ND	1	369	2.0	2	3	470	12.55	.001	2	68	3.68	22	.03	2	1.94	.01	.01	1	6	7
D-173284	1	67	2	71	.3	55	45	1460	8.91	4	5	ND	1	310	2.2	2	3	381	13.60	.001	2	41	4.32	13	.03	2	1.92	.01	.01	1	5	16
D-173285	1	75	5	73	.3	52	42	1370	8.95	12	5	ND	1	352	2.9	2	2	394	14.28	.003	2	29	2.62	23	.03	5	1.94	.01	.01	1	2	13
D-173286	6	104	11	86	.1	52	36	1134	7.62	16	5	ND	1	376	1.4	2	6	223	7.45	.067	6	75	3.88	207	.01	3	4.45	.04	.24	1	16	12
STANDARD C/AU-R	21	61	38	135	7.4	73	33	1108	3.91	42	18	7	39	54	18.6	15	19	62	.48	.092	39	60	.88	183	.09	37	1.85	.07	.15	11	471	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: MAR 2 1991 **DATE REPORT MAILED:** March 11/91. **SIGNED BY** C. Leong ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

RECEIVED MAR 1 4 1991

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	SAMPLE wt. lb
D-173287	2	64	10	66	.1	14	22	1387	5.04	23	5	ND	1	228	.4	2	2	137	7.68	.079	6	21	2.04	23	.04	2	2.27	.03	.10	1	9	21
D-173288	1	122	7	94	.1	17	26	1591	5.64	8	5	ND	1	190	.4	2	3	149	5.61	.079	5	27	2.20	18	.02	3	2.62	.02	.09	1	10	17
D-173289	2	140	11	86	.1	13	26	1510	5.33	19	5	ND	1	232	.8	7	6	122	6.78	.073	6	16	1.98	13	.02	12	2.57	.03	.14	1	12	19
D-173290	3	97	2	62	.2	21	18	895	4.17	51	5	ND	1	203	.7	4	2	111	5.41	.085	10	32	1.68	49	.07	5	2.08	.02	.14	1	15	20
D-173291	3	114	7	49	.1	18	16	855	4.04	47	5	ND	1	169	.4	2	2	110	4.10	.088	11	33	1.75	48	.05	3	1.91	.04	.07	1	28	21
D-173292	2	87	10	96	.3	24	15	1092	3.76	36	5	ND	1	233	.4	2	2	64	5.28	.080	10	24	1.58	30	.01	5	1.84	.02	.18	1	28	19
D-173293	1	127	8	68	.6	39	26	1160	4.94	54	5	ND	1	242	.4	2	3	116	7.09	.078	6	65	2.25	28	.01	4	2.34	.03	.11	1	36	18
D-173294	1	15	2	64	.1	83	24	1276	4.86	4	5	ND	1	280	.4	2	5	122	8.31	.059	4	201	2.96	20	.02	4	2.79	.02	.13	1	7	14
D-173295	1	135	3	52	.1	11	26	1033	5.25	2	5	ND	1	291	.8	2	2	162	5.64	.069	4	11	2.68	59	.02	2	3.00	.03	.13	1	6	21
D-173296	1	29	2	43	.1	12	13	954	3.00	2	5	ND	1	188	.6	6	2	53	4.18	.069	6	14	1.11	35	.01	4	1.57	.04	.13	1	13	18
D-173297	1	64	3	87	.1	15	16	1108	4.40	2	5	ND	1	212	.4	2	2	101	4.80	.075	7	27	1.67	35	.01	2	2.35	.03	.11	1	8	17
D-173298	1	73	2	82	.1	19	18	1076	4.57	6	5	ND	1	249	.5	2	2	124	6.38	.071	8	31	1.61	24	.01	2	2.24	.04	.07	1	28	17
D-173299	2	115	4	91	.3	22	23	905	4.55	15	5	ND	1	273	.8	3	2	117	7.17	.074	9	30	1.70	21	.01	3	2.16	.06	.06	1	8	14
D-173300	1	58	2	82	.3	17	23	1037	5.06	2	5	ND	2	198	.4	2	2	131	5.58	.082	9	25	2.27	39	.01	4	2.71	.03	.08	1	8	28
D-173301	1	72	2	75	.1	14	23	1114	5.16	2	5	ND	1	205	.4	3	2	148	5.23	.076	8	23	2.39	51	.01	2	2.69	.04	.07	1	9	18
D-173302	1	56	2	77	.1	18	28	1156	5.69	8	5	ND	1	240	.8	3	2	177	6.32	.066	8	27	2.61	79	.16	3	2.80	.04	.05	1	1	20
D-173303	1	61	2	81	.1	19	27	1023	5.89	2	5	ND	1	225	.4	4	2	176	4.70	.066	8	28	2.82	36	.01	3	3.05	.04	.05	1	2	13
D-173304	1	158	2	52	.4	56	39	742	4.90	3	5	ND	1	176	.9	7	5	149	4.57	.011	2	160	3.64	92	.12	2	2.38	.02	.11	1	19	14
D-173305	1	105	4	57	.2	53	37	1054	5.11	2	8	ND	1	429	.6	2	5	165	13.76	.003	2	147	3.59	72	.06	2	2.69	.01	.14	1	6	15
D-173306	1	13	2	46	.1	47	34	913	7.21	2	5	ND	1	237	1.4	2	2	414	7.38	.003	2	180	2.17	45	.25	2	1.09	.02	.04	1	7	24
D-173307	1	22	2	37	.1	41	29	638	5.55	2	5	ND	1	143	.4	4	2	211	3.34	.007	2	350	1.93	79	.19	2	.84	.03	.10	1	2	16
D-173308	1	20	2	38	.1	50	32	795	5.85	2	5	ND	1	184	.4	2	2	257	4.77	.001	2	228	2.61	58	.20	2	1.21	.02	.09	1	7	19
D-173309	4	65	3	49	.2	67	36	632	7.47	6	5	ND	1	139	1.1	2	3	410	3.60	.027	2	153	1.60	32	.21	2	1.09	.03	.04	1	19	17
D-173310	1	16	7	53	.4	62	38	735	5.55	2	5	ND	1	237	.4	5	2	202	3.91	.001	2	160	3.52	61	.19	9	2.37	.03	.07	1	3	20
D-173311	1	165	2	57	.3	64	38	688	7.39	13	5	ND	1	219	1.7	4	8	341	6.45	.001	2	220	1.90	41	.20	2	1.08	.02	.08	1	12	14
D-173312	1	612	2	38	.2	43	24	638	3.33	2	5	ND	1	334	1.0	2	2	147	5.40	.013	2	64	2.55	1024	.14	3	2.64	.04	.08	1	11	10
D-173313	1	37	3	60	.1	66	46	647	10.17	4	5	ND	1	195	1.7	2	5	479	4.04	.004	2	117	2.42	49	.33	4	1.39	.07	.03	1	3	22
D-173314	1	252	5	47	.1	65	45	537	7.22	2	5	ND	1	166	1.0	2	2	299	4.22	.014	4	116	1.87	22	.23	3	1.29	.05	.02	1	13	20
D-173315	1	122	2	58	.1	65	40	433	9.63	2	5	ND	1	108	.4	2	9	427	1.35	.004	2	145	1.75	24	.26	2	1.20	.07	.03	1	7	18
D-173316	2	525	2	32	.2	24	42	316	2.85	2	5	ND	4	170	.4	2	2	83	2.59	.022	3	22	1.15	92	.13	2	1.04	.05	.10	1	9	10
D-173317	4	125	2	22	.2	19	13	253	2.40	2	8	ND	6	127	.4	2	2	76	1.56	.022	13	27	.79	44	.13	2	.77	.06	.09	1	2	12
D-173318	1	30	6	64	.3	86	60	463	12.03	5	5	ND	1	153	2.1	8	2	489	1.13	.006	2	148	2.18	46	.24	5	1.09	.08	.05	2	1	20
D-173319	1	9	4	57	.1	84	55	479	11.30	4	5	ND	1	117	.4	5	6	478	1.11	.004	2	183	1.86	31	.27	2	1.09	.06	.03	1	5	19
D-173320	1	113	2	34	.1	30	25	395	4.56	4	5	ND	1	123	1.2	2	2	176	2.30	.051	7	56	1.31	106	.23	2	1.26	.12	.14	1	6	15
D-173321	1	51	5	54	.1	74	49	497	10.06	2	5	ND	1	98	1.6	6	2	447	1.63	.008	3	140	1.77	29	.24	2	1.16	.08	.04	1	7	16
D-173322	4	147	2	28	.2	16	15	321	2.74	2	5	ND	5	76	.4	3	2	83	1.46	.050	9	24	.97	65	.16	2	.90	.04	.07	1	5	22
STANDARD C/AU-R	21	58	42	134	7.3	73	33	1116	3.94	41	22	7	40	53	17.7	15	22	60	.48	.093	41	59	.89	183	.09	39	1.88	.07	.15	11	494	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	AU** ppb	SAMPLE wt. lb
D-173323	5	103	8	135	.4	36	14	1012	3.27	51	5	ND	1	235	.8	4	2	33	10.42	.080	6	21	1.25	86	.05	9	.59	.03	.18	1	13	20
D-173324	3	198	13	127	.8	39	14	2676	4.01	71	5	ND	1	206	.4	2	2	13	11.11	.084	5	14	1.42	76	.01	2	.30	.01	.15	1	21	10
D-173325	3	198	53	209	1.4	41	16	2490	4.77	144	5	ND	1	200	1.3	2	2	15	10.91	.093	4	13	1.51	58	.01	2	.31	.02	.15	1	142	12
D-173326	3	103	20	136	.8	36	16	1583	3.89	85	6	ND	1	224	1.1	3	6	14	11.73	.103	5	13	1.64	52	.01	3	.29	.01	.15	1	30	13
D-173327	3	135	9	139	.7	34	15	1372	3.56	87	5	ND	1	254	.7	2	2	14	11.38	.093	6	14	1.52	79	.01	4	.32	.01	.15	1	20	10
D-173328	4	219	59	194	1.3	35	14	1693	4.03	90	5	ND	1	255	.5	2	12	14	11.94	.085	5	14	1.53	54	.01	2	.29	.02	.13	1	114	12
D-173329	2	59	3	117	.2	18	9	1015	2.53	18	5	ND	1	285	.5	2	2	33	12.01	.072	7	24	1.11	196	.01	3	.70	.02	.15	1	9	21
D-173330	1	118	6	120	.3	22	14	1243	4.78	27	5	ND	1	239	.2	2	4	54	8.53	.090	8	24	2.29	55	.01	4	1.67	.02	.12	1	12	20
D-173331	3	123	6	137	.7	19	14	1283	3.56	51	5	ND	1	170	.5	4	2	66	13.61	.095	6	38	1.30	85	.06	4	1.38	.02	.05	1	16	15
D-173332	2	100	4	91	.6	17	12	770	2.10	23	5	ND	1	145	.5	6	2	45	14.03	.086	5	31	.92	141	.05	2	1.61	.02	.11	1	13	16
D-173333	1	87	9	123	.7	14	11	1040	2.50	33	5	ND	1	254	.8	2	4	13	14.30	.080	5	11	1.08	50	.01	2	.25	.02	.12	1	30	17
D-173334	3	97	62	247	1.4	30	12	1052	3.17	104	5	ND	1	269	1.9	4	2	12	11.64	.079	4	10	1.11	66	.01	2	.37	.01	.15	1	89	14
D-173335	2	100	10	183	.5	30	15	817	2.77	70	5	ND	1	134	.8	2	2	36	8.77	.082	5	28	1.17	207	.04	4	1.05	.02	.12	1	23	20
D-173336	2	83	7	68	1.3	31	15	905	3.03	74	5	ND	1	182	.2	2	2	17	10.74	.084	5	15	1.34	80	.01	2	.44	.01	.18	1	25	12
D-173337	2	98	2	160	2.3	27	12	907	2.82	82	5	ND	1	279	.9	2	2	10	12.71	.083	5	10	1.10	80	.01	2	.31	.01	.17	1	33	15
D-173338	8	135	2	101	.5	54	18	1058	3.70	97	5	ND	1	220	.6	2	2	15	10.91	.099	6	18	1.70	74	.01	2	.31	.02	.16	1	14	13
D-173339	3	103	2	162	.5	39	14	967	3.46	42	5	ND	1	186	.2	2	2	35	10.48	.089	7	29	1.50	158	.01	2	.84	.02	.16	1	6	14
D-173340	3	75	10	261	1.2	41	15	1129	3.73	81	12	ND	1	272	1.5	2	2	15	11.38	.091	6	15	1.51	75	.01	3	.36	.01	.15	1	24	8
D-173341	2	104	5	138	.4	32	14	954	3.16	56	6	ND	1	195	.7	3	2	31	13.11	.090	7	27	1.26	164	.01	2	1.14	.01	.20	1	11	18
D-173342	2	53	2	68	.1	24	10	887	2.17	30	5	ND	1	347	.2	2	2	48	17.89	.061	6	34	.91	166	.02	2	1.32	.01	.12	1	5	20
D-173343	2	74	4	70	.3	12	17	1008	4.66	3	5	ND	1	87	.4	2	2	94	3.95	.084	8	21	1.65	38	.08	3	2.36	.05	.09	1	16	15
D-173344	4	274	11	67	.4	37	22	790	4.60	5	5	ND	1	114	.7	2	5	95	4.06	.098	10	39	1.71	36	.12	2	2.26	.07	.09	1	5	16
D-173345	2	70	4	69	.1	12	21	1158	5.26	7	8	ND	1	107	.6	3	2	108	5.00	.101	6	18	1.86	34	.19	8	2.71	.05	.08	1	8	20
D-173346	1	411	2	40	.6	33	16	591	4.22	2	5	ND	1	52	.5	2	2	112	3.22	.072	6	41	1.87	17	.21	6	2.08	.03	.06	1	3	16
D-173347	1	584	6	43	.9	54	21	456	3.87	9	5	ND	1	59	1.0	2	3	72	3.20	.056	8	47	1.49	24	.05	5	1.52	.03	.09	1	26	16
D-173348	3	1193	2	67	1.7	54	21	501	4.03	15	5	ND	1	71	1.3	3	6	78	2.65	.062	5	37	1.56	38	.04	2	1.74	.03	.13	2	14	19
D-173349	3	978	4	55	2.1	44	17	586	3.47	26	5	ND	3	91	1.0	7	8	81	4.47	.063	11	44	1.30	25	.04	2	1.56	.04	.09	1	41	15
D-173350	2	349	4	37	.4	38	16	550	4.21	8	19	ND	1	54	.4	2	2	123	2.94	.105	8	42	1.99	30	.22	2	2.07	.04	.07	1	17	16
D-173351	2	411	3	39	.6	60	16	492	3.99	2	6	ND	1	61	.3	2	6	103	2.43	.077	9	63	1.81	83	.19	2	1.99	.07	.07	1	10	17
D-173352	4	484	2	35	.3	26	29	484	4.56	3	5	ND	1	105	.2	4	2	125	4.41	.157	4	36	1.69	97	.19	4	2.24	.06	.18	1	1	14
D-173353	3	176	2	30	.1	82	12	466	4.00	2	5	ND	2	64	.2	2	2	83	1.25	.046	16	51	1.82	29	.05	2	2.04	.07	.07	1	1	12
D-173354	2	223	4	74	.6	40	31	980	6.17	9	12	ND	2	150	.9	8	2	147	4.70	.126	9	41	2.22	138	.14	9	2.96	.03	.09	2	2	19
D-173355	2	118	2	85	.3	42	32	957	6.61	11	5	ND	2	130	.9	7	3	170	4.28	.120	9	56	2.45	34	.21	2	3.20	.02	.06	1	1	18
D-173356	1	108	2	64	.1	29	27	784	5.18	2	5	ND	1	124	1.4	2	2	145	4.48	.131	8	49	2.17	54	.27	7	3.11	.09	.09	1	5	20
D-173357	3	83	2	52	.1	25	25	831	4.90	2	9	ND	1	136	.3	2	2	138	4.51	.128	8	50	2.26	56	.27	2	2.72	.12	.10	1	3	17
D-173358	9	232	11	38	.2	107	19	436	3.51	14	8	ND	1	55	.3	2	2	79	2.35	.036	9	51	1.43	29	.11	2	1.70	.04	.09	1	2	13
STANDARD C/AU-R	20	63	43	133	7.1	73	33	1077	3.93	42	20	7	39	52	17.9	14	21	59	.48	.094	40	60	.87	184	.08	34	1.87	.06	.15	11	476	-

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	SAMPLE wt. lb
D-173359	3	151	2	21	.1	131	14	319	2.88	41	5	ND	1	55	.8	2	2	62	1.97	.024	15	35	1.13	22	.03	3	1.30	.03	.13	1	4	10
D-173360	2	636	3	31	.9	87	17	376	3.61	6	5	ND	3	56	.9	2	2	89	2.33	.046	18	50	1.42	36	.11	2	1.56	.05	.16	1	4	20
D-173361	6	169	2	20	.1	104	12	289	2.87	12	5	ND	1	64	.6	2	2	73	2.00	.049	14	38	1.39	30	.05	2	1.44	.04	.14	1	1	15
D-173362	2	272	4	28	.4	57	17	379	3.76	6	5	ND	2	85	1.2	2	2	96	2.10	.052	7	76	1.96	66	.13	2	2.01	.06	.14	1	3	14
D-173363	11	281	3	21	.4	81	13	328	2.83	15	5	ND	2	72	.8	2	2	89	3.03	.040	7	49	1.22	19	.17	4	1.28	.04	.07	1	2	12
D-173364	3	554	2	25	.6	24	31	354	3.73	2	5	ND	1	71	1.0	2	2	126	3.39	.135	4	15	1.54	85	.20	3	2.15	.06	.19	1	3	4
D-173365	18	571	2	26	.7	117	21	396	3.30	18	5	ND	1	62	1.0	2	2	103	2.79	.053	10	99	1.36	28	.15	2	1.37	.04	.06	1	8	20
D-173366	14	618	2	23	.6	73	16	377	3.27	11	5	ND	1	66	.8	2	2	92	2.49	.040	3	74	1.56	20	.18	2	1.62	.04	.07	1	16	21
D-173367	6	1042	5	37	1.3	25	15	439	3.25	2	5	ND	1	120	1.4	2	2	124	4.29	.124	5	31	1.77	42	.08	2	2.11	.03	.16	1	26	21
D-173368	11	686	2	29	.7	19	18	396	3.05	2	5	ND	1	95	.9	2	2	130	3.57	.144	4	24	1.63	64	.19	5	2.09	.09	.15	1	18	23
D-173369	8	745	2	28	.8	22	24	436	3.33	5	5	ND	1	141	1.1	2	2	112	3.73	.129	4	27	1.57	75	.14	2	1.99	.08	.17	1	19	22
D-173370	5	530	2	30	.7	28	25	534	4.07	7	5	ND	1	145	1.5	2	2	127	3.52	.124	4	60	2.00	51	.03	2	2.05	.03	.15	1	13	20
D-173371	5	412	4	25	.5	21	26	509	3.46	2	5	ND	1	116	1.2	2	2	120	3.39	.121	3	29	1.88	49	.08	2	2.10	.04	.12	1	22	20
D-173372	4	293	6	38	.4	78	18	799	4.09	19	5	ND	1	100	1.3	5	2	138	3.51	.093	7	215	2.75	36	.02	2	2.47	.03	.08	1	14	18
D-173373	1	155	2	20	.1	77	16	460	3.56	5	5	ND	2	106	1.1	3	2	121	2.23	.074	6	150	2.43	39	.22	2	2.19	.07	.08	1	3	15
D-173374	3	343	7	18	.3	78	19	382	3.48	15	5	ND	2	72	1.3	2	2	106	2.17	.042	5	71	1.79	20	.21	2	1.80	.04	.06	1	10	20
D-173375	17	609	6	22	.6	98	30	440	4.27	14	5	ND	2	94	1.3	3	2	116	2.29	.061	7	102	1.98	26	.17	2	2.04	.07	.07	1	6	23
D-173376	13	509	8	28	.7	72	19	613	3.41	11	5	ND	2	102	1.6	4	2	118	4.35	.066	7	121	1.95	29	.13	4	1.79	.03	.04	1	5	23
D-173377	5	400	5	20	.4	72	14	574	3.24	12	5	ND	1	75	1.3	2	2	106	3.03	.059	6	112	1.82	27	.21	2	1.56	.04	.05	1	4	16
D-173378	8	212	6	20	.1	94	19	573	4.13	4	5	ND	1	63	1.2	2	2	117	2.22	.086	6	216	2.43	19	.25	2	2.01	.04	.11	1	3	17
D-173379	2	313	3	14	.2	86	20	423	3.55	4	5	ND	1	61	.9	2	2	96	2.04	.073	5	141	1.62	18	.25	2	1.43	.06	.04	1	3	19
STANDARD C/AU-R	20	58	42	135	7.3	72	32	1120	4.02	37	18	8	40	54	19.0	15	21	60	.49	.092	40	59	.89	183	.09	34	1.97	.06	.14	12	481	-

..ME ....YTI... LAI....TOR... LTD. 8.. E. H...ING. .. V....OUVI .C. .A 1 .NE(253 .8 (60. 3-1

GEOCHEMICAL ANALYSIS CERTIFICATE

Silver Standard Resources Inc. PROJECT M1006 File # 91-0624 Page 1

400 - 1199 W. Hastings St, Vancouver BC V6E 3T5 Submitted by: M. HOLTBY

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	Sample wt. lb
173380	2	349	4	32	.3	100	19	653	3.82	10	5	ND	1	81	.2	2	2	110	3.12	.083	6	168	2.03	37	.22	4	1.84	.07	.06	1	4	18
173381	2	301	42	131	.3	84	20	977	4.25	14	8	ND	1	84	.5	2	2	123	4.71	.085	6	186	2.43	32	.21	4	2.14	.06	.11	1	13	15
173382	1	390	12	36	.5	97	26	546	4.69	11	5	ND	1	71	.2	3	2	113	4.00	.109	5	223	2.47	31	.29	5	2.00	.08	.27	3	13	16
173383	2	210	10	33	.2	88	23	621	4.44	6	5	ND	1	66	.6	2	2	109	2.96	.099	6	204	2.32	57	.28	3	2.12	.13	.38	1	1	9
173384	1	64	15	68	.2	18	19	1123	5.82	2	5	ND	2	105	.7	2	2	131	5.36	.137	9	51	1.94	46	.26	2	2.82	.08	.15	1	1	11
173385	1	290	13	37	.7	21	25	666	3.76	10	5	ND	3	103	.5	5	3	139	6.38	.137	4	36	2.21	42	.12	6	2.17	.03	.20	1	2	3
173386	1	411	2	39	.6	104	26	729	5.06	28	5	ND	1	155	.2	2	2	142	8.33	.090	5	244	2.82	25	.06	3	2.49	.05	.15	1	6	10
173387	1	704	2	624	.7	26	30	602	3.64	8	5	ND	1	147	19.2	2	7	102	6.59	.121	3	27	1.65	56	.08	3	1.59	.04	.21	5	11	3
173388	2	375	9	754	.5	120	26	593	5.30	13	5	ND	1	78	23.9	2	7	133	2.71	.106	5	382	3.71	38	.30	2	2.75	.10	.18	1	17	12
173389	1	395	3	41	.5	104	22	420	3.60	10	5	ND	1	63	.6	2	2	113	3.00	.097	7	167	2.37	54	.27	3	1.64	.07	.28	2	3	11
173390	2	780	15	37	.8	29	30	480	3.89	6	5	ND	1	73	.3	2	2	130	3.69	.133	3	32	1.94	83	.18	6	2.16	.08	.23	1	5	6
173391	4	811	7	48	1.4	108	30	393	3.77	21	5	ND	1	50	1.1	2	3	68	2.50	.045	6	62	1.53	28	.14	2	1.55	.04	.08	1	13	15
173392	7	370	4	33	.7	114	18	351	2.71	34	5	ND	1	43	.5	3	2	74	2.29	.042	4	67	1.21	12	.15	6	1.30	.06	.07	1	4	17
173393	6	878	10	57	1.1	122	32	376	4.19	14	5	ND	1	50	1.1	4	4	103	2.09	.046	4	70	1.84	19	.21	2	1.77	.07	.08	1	8	8
173394	3	395	8	33	.1	124	23	410	4.69	17	5	ND	1	68	.2	2	2	134	2.46	.098	5	238	3.34	37	.29	5	2.56	.07	.28	1	15	14
173395	2	524	2	37	.4	172	30	716	5.19	18	5	ND	1	169	1.1	2	2	110	6.05	.081	5	260	3.68	26	.20	3	2.81	.05	.15	1	7	23
173396	4	548	3	32	.3	174	32	482	4.88	9	5	ND	1	73	.7	2	3	100	2.28	.078	6	210	3.03	24	.20	5	2.47	.08	.07	1	4	4
173397	1	78	13	60	.3	15	25	1021	5.34	10	5	ND	2	133	1.4	4	2	119	6.11	.081	5	21	2.13	35	.21	7	2.74	.05	.11	2	5	15
173398	2	33	8	47	.1	34	12	766	3.56	6	5	ND	1	149	.4	2	2	112	5.54	.068	6	80	2.07	44	.06	2	2.28	.05	.11	1	5	9
173399	6	226	11	40	.3	78	17	442	2.95	54	5	ND	1	62	.4	8	2	70	2.46	.043	5	46	1.54	19	.04	3	1.66	.05	.11	1	28	9
173400	18	520	2	37	.6	41	14	385	2.68	10	6	ND	1	61	.7	2	2	83	3.40	.075	6	50	1.36	38	.19	5	1.50	.06	.11	1	8	6
173401	15	217	5	34	.4	45	10	415	2.68	14	5	ND	1	58	1.2	3	2	90	3.54	.060	5	69	1.65	27	.16	2	1.65	.05	.07	2	30	15
173402	12	1312	5	52	1.4	65	16	400	2.87	30	5	ND	1	58	.7	3	2	78	3.00	.057	5	41	1.49	15	.20	3	1.61	.07	.07	1	39	13
173403	9	1080	11	57	1.6	97	35	519	3.40	163	5	ND	1	96	1.2	9	4	61	3.63	.071	5	57	1.55	19	.07	4	1.75	.04	.16	1	89	16
173404	1	421	569	385	.8	43	30	773	4.79	92	5	ND	1	127	4.0	3	2	129	5.67	.134	4	75	2.27	63	.07	2	2.34	.04	.16	1	59	18
173405	2	575	2	33	.8	50	31	727	3.88	6	5	ND	1	101	.9	7	2	77	7.77	.068	5	85	1.24	25	.04	4	1.44	.05	.07	1	18	13
173406	1	184	2	32	.2	28	23	592	3.71	12	5	ND	1	133	.9	2	2	137	6.33	.120	2	58	2.11	81	.10	5	2.26	.06	.20	1	3	17
173407	4	1009	8	232	.7	114	59	690	6.73	24	5	ND	1	170	2.5	4	3	71	6.73	.055	5	109	1.95	23	.01	2	1.76	.04	.12	1	32	18
173408	4	403	12	42	.6	82	33	583	5.20	25	5	ND	1	163	.7	4	2	99	4.53	.095	6	81	2.20	54	.03	9	2.37	.04	.13	1	26	16
173409	13	1142	8	53	.5	44	39	683	5.50	6	5	ND	2	177	1.5	3	2	148	7.52	.155	4	93	2.76	65	.09	2	2.57	.03	.14	1	39	19
173410	3	191	13	38	.3	60	25	628	4.54	17	5	ND	2	118	1.5	4	2	152	4.99	.163	4	93	2.96	101	.22	3	2.57	.04	.16	2	5	8
173411	6	141	2	44	.3	131	21	791	5.44	9	5	ND	1	108	1.7	2	2	157	4.27	.110	5	323	4.20	42	.17	3	3.29	.06	.10	1	8	9
173412	1	43	2	118	.3	7	18	1148	5.08	6	5	ND	2	129	1.6	3	2	86	6.09	.137	16	12	1.74	25	.05	2	2.61	.06	.16	2	8	12
173413	1	87	2	37	.1	36	18	733	3.79	4	5	ND	1	127	.8	2	2	118	5.24	.128	4	62	2.00	67	.11	2	2.23	.04	.16	1	19	13
173414	1	159	4	36	.1	11	18	720	3.29	6	5	ND	1	121	.7	2	3	88	5.18	.133	3	15	1.60	58	.05	3	1.93	.03	.21	1	26	16
173415	1	251	7	37	.1	13	20	733	3.29	3	5	ND	1	114	1.5	3	2	100	5.61	.122	3	19	1.54	57	.14	2	1.83	.04	.17	1	51	13
STANDARD C/AU-R	20	56	44	137	7.2	72	32	1107	3.99	43	17	7	38	52	18.0	14	17	58	.49	.091	39	60	.89	182	.09	33	1.89	.06	.14	13	480	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE

DATE RECEIVED: MAR 9 1991 **DATE REPORT MAILED:** March 14/91 **SIGNED BY** [signature] D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb	Sample wt. lb
173416	2	445	3	51	.5	50	25	678	4.94	17	5	ND	1	119	.2	2	11	120	6.69	.141	5	103	3.11	40	.12	7	2.81	.03	.11	1	506	8
173417	2	248	7	34	.1	33	24	530	3.91	4	5	ND	2	124	1.4	7	2	114	6.37	.163	4	63	2.93	69	.18	8	3.03	.07	.16	3	44	7
173418	1	97	2	66	.1	11	31	992	6.71	2	5	ND	2	138	.8	2	8	170	5.23	.094	7	10	2.70	51	.34	7	3.43	.12	.11	1	20	7
173419	4	295	2	32	.1	185	24	534	4.66	15	5	ND	1	104	.5	2	4	101	2.74	.103	5	312	4.58	39	.30	2	2.84	.08	.09	1	10	9
173420	3	506	2	28	.5	61	25	519	4.70	5	5	ND	2	105	.6	5	5	114	4.17	.092	6	108	2.78	43	.20	4	2.09	.09	.07	1	36	10
173421	2	486	2	28	.3	27	28	605	5.10	10	5	ND	2	175	.7	4	5	128	6.99	.087	7	48	2.79	39	.16	4	2.43	.11	.07	1	23	5
173422	1	2746	2	64	1.2	29	24	723	4.76	12	5	ND	1	162	.8	2	17	170	6.40	.147	4	41	2.49	36	.28	9	2.92	.13	.12	1	82	6
173423	2	1950	2	56	.2	27	20	641	4.68	3	5	ND	1	146	1.6	2	14	162	5.68	.141	4	39	2.58	51	.32	5	3.12	.10	.13	1	53	6
173424	1	587	2	58	.4	15	25	710	4.99	4	5	ND	2	145	.6	2	3	137	5.01	.102	5	16	2.06	56	.31	9	2.95	.14	.13	1	33	5
173425	3	1524	2	44	.7	25	18	432	3.95	9	5	ND	1	103	1.1	5	16	142	3.35	.157	5	30	1.73	54	.32	11	2.70	.10	.13	1	60	7
173426	1	68	2	81	.2	8	23	1093	5.17	4	5	ND	2	234	.4	3	7	94	6.03	.110	8	3	2.27	195	.03	8	2.99	.03	.17	1	3	8
173427	2	59	4	116	.2	20	7	1107	2.32	7	9	ND	3	330	1.1	2	2	45	12.37	.252	7	19	.72	48	.01	2	1.14	.03	.15	1	11	5
173428	5	69	10	116	.1	51	11	895	2.80	26	5	ND	3	260	.8	6	2	38	7.72	.041	8	28	1.28	71	.01	4	1.65	.01	.16	1	5	6
173429	1	26	8	80	.1	6	22	1109	5.58	2	5	ND	3	373	.6	2	2	83	10.18	.106	6	2	1.67	267	.02	6	2.99	.04	.21	1	1	6
173430	9	86	11	134	.5	39	13	545	3.70	5	5	ND	1	101	1.1	3	2	57	2.69	.059	5	38	.92	69	.01	2	1.40	.04	.14	1	1	5
173431	1	31	2	79	.2	5	19	1052	6.63	6	5	ND	2	154	.7	2	2	108	5.83	.118	6	6	2.20	275	.01	4	3.42	.04	.23	1	1	9
173432	29	61	5	165	.1	43	11	866	3.35	2	5	ND	1	135	1.7	2	5	78	7.41	.049	4	16	.69	133	.01	4	1.14	.03	.16	1	6	10
173433	2	48	3	30	.2	8	16	873	3.80	3	5	ND	4	303	.7	2	2	71	15.10	.080	6	4	1.84	201	.01	6	2.19	.03	.20	1	1	8
173434	30	86	5	389	.2	48	14	524	3.79	11	5	ND	1	106	5.0	2	2	140	4.88	.061	4	21	.81	68	.01	2	1.12	.03	.16	1	4	8
173435	40	62	10	174	.4	60	13	498	3.63	11	5	ND	2	149	2.4	4	2	113	4.49	.058	5	14	.67	59	.01	4	1.05	.03	.17	1	8	7
173436	28	68	2	101	.4	37	13	676	3.94	12	5	ND	1	89	.2	2	2	54	4.25	.067	5	18	1.32	96	.07	8	1.52	.02	.16	1	6	6
173437	31	74	16	113	.6	49	13	396	3.89	7	5	ND	2	39	.7	2	2	55	1.12	.052	5	33	.99	84	.03	4	1.46	.05	.17	1	2	7
173438	23	54	3	136	.3	28	8	306	2.18	10	5	ND	2	81	1.7	2	2	31	2.02	.057	3	25	.49	69	.01	6	.74	.04	.14	1	5	9
173439	1	63	5	52	.1	36	25	1000	5.91	9	5	ND	4	220	.7	3	2	126	6.74	.096	6	28	4.53	125	.01	8	3.43	.03	.24	1	1	6
173440	7	102	13	73	.1	59	14	840	2.35	18	5	ND	1	375	.8	2	2	16	8.95	.057	4	13	.75	134	.01	4	.96	.01	.19	1	15	6
173441	27	92	2	67	.1	39	10	688	2.88	11	5	ND	1	251	.5	10	2	23	7.11	.061	4	8	.55	80	.01	3	.98	.02	.16	1	11	7
STANDARD C/AU-R	19	61	38	131	7.0	69	32	1071	3.92	42	17	7	39	52	18.8	14	19	57	.48	.088	39	58	.86	182	.09	34	1.83	.06	.14	12	490	-

COMP: SILVER STANDARD
PROJ: CAMP
ATTN: BOB QUARTERMAINE

MIN-EN LABS — ICP REPORT

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

FILE NO: 0S-0516-RJ1
DATE: 90/10/03
* ROCK * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM
333267	2.5	27650	1	4	82	.4	7	23960	.1	25	3089	35910	2870	11
333268	1.7	18780	1	1	34	1.1	3	20450	.1	16	1085	29310	1340	17
333269	1.9	15720	1	1	25	.7	5	20500	.1	21	1885	27700	880	8
333270	2.2	16100	1	1	43	.3	5	21320	.1	16	2650	24240	970	6
333271	1.9	19630	1	1	281	.1	7	20750	.1	21	189	32650	3930	7
333272	2.4	13940	92	1	65	1.0	3	19210	14.0	10	770	26560	1460	11
333273	1.7	31990	1	2	126	.1	7	29760	.1	22	92	39340	920	16
333274	1.5	31830	1	2	52	.5	6	29110	.1	21	102	35400	910	16
333275	.9	20480	1	2	36	.8	2	59530	.1	15	39	32190	1640	10
333276	1.8	22020	1	1	123	.5	7	19500	.1	18	107	32840	1420	11
333277	1.9	21210	1	1	367	.2	8	14330	.1	24	73	51720	2880	13
333278	2.0	30470	1	5	33	1.0	5	24710	.1	25	75	41580	840	22
333279	.4	10740	4	1	48	.8	3	13140	.8	5	55	13300	1180	3
333280	1.5	26600	1	5	15	.8	6	26130	.1	24	520	51420	970	7

SAMPLE NUMBER	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM
333267	17910	353	2	980	24	2080	8	1	11	1	1	165.4	71	1	1	1	42
333268	21000	563	1	320	41	1060	13	1	19	1	1	128.6	42	1	2	2	139
333269	11630	367	5	860	15	1050	13	1	4	1	1	99.4	41	1	1	1	40
333270	9910	358	10	910	11	1330	8	1	5	1	1	94.2	50	1	1	1	35
333271	15950	494	1	2480	18	970	6	1	52	1	1	108.8	43	1	1	1	41
333272	14190	713	1	190	26	630	53	10	15	1	1	75.4	353	1	1	1	110
333273	16700	617	1	630	21	1110	11	1	13	1	1	147.6	58	1	1	1	58
333274	12920	469	1	620	24	1130	9	1	15	1	1	126.3	48	2	2	1	57
333275	20830	1886	1	80	27	550	12	1	144	1	1	87.4	33	1	2	1	58
333276	11130	558	1	1100	23	920	11	1	15	1	1	100.0	56	1	1	1	43
333277	15350	937	1	830	6	840	6	1	33	1	1	147.9	59	1	1	1	8
333278	34590	721	1	2380	16	1260	6	1	1	1	1	132.6	52	1	3	2	210
333279	3130	260	1	960	3	470	9	1	6	1	1	39.0	14	1	1	1	42
333280	6910	544	1	650	12	910	13	1	1	1	1	114.0	17	1	1	1	31

COMP: SILVER STANDARD
PROJ: CAMP
ATTN: BOB QUARTERMAINE

MIN-EN LABS — ICP REPORT

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

FILE NO: 0S-0516-SJ2
DATE: 90/10/03
* SOIL * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB
46NX66.25E	1.2	12620	1	1	77	.6	3	4600	.1	7	18	16530	680	7	4800	181	1	190	15	380	14	1	16	1	1	64.0	33	1	1	1	21	1
64+50E 58+50N	1.3	23320	1	2	194	1.7	4	8140	.1	28	109	61670	1210	19	10450	822	1	460	13	1640	27	1	64	1	1	162.4	162	2	1	1	4	2

MIN • EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0516-RA1

Company: SILVER STANDARD
Project: CAMP
Attn: BOB QUARTERMAINE

Date: OCT-03-90

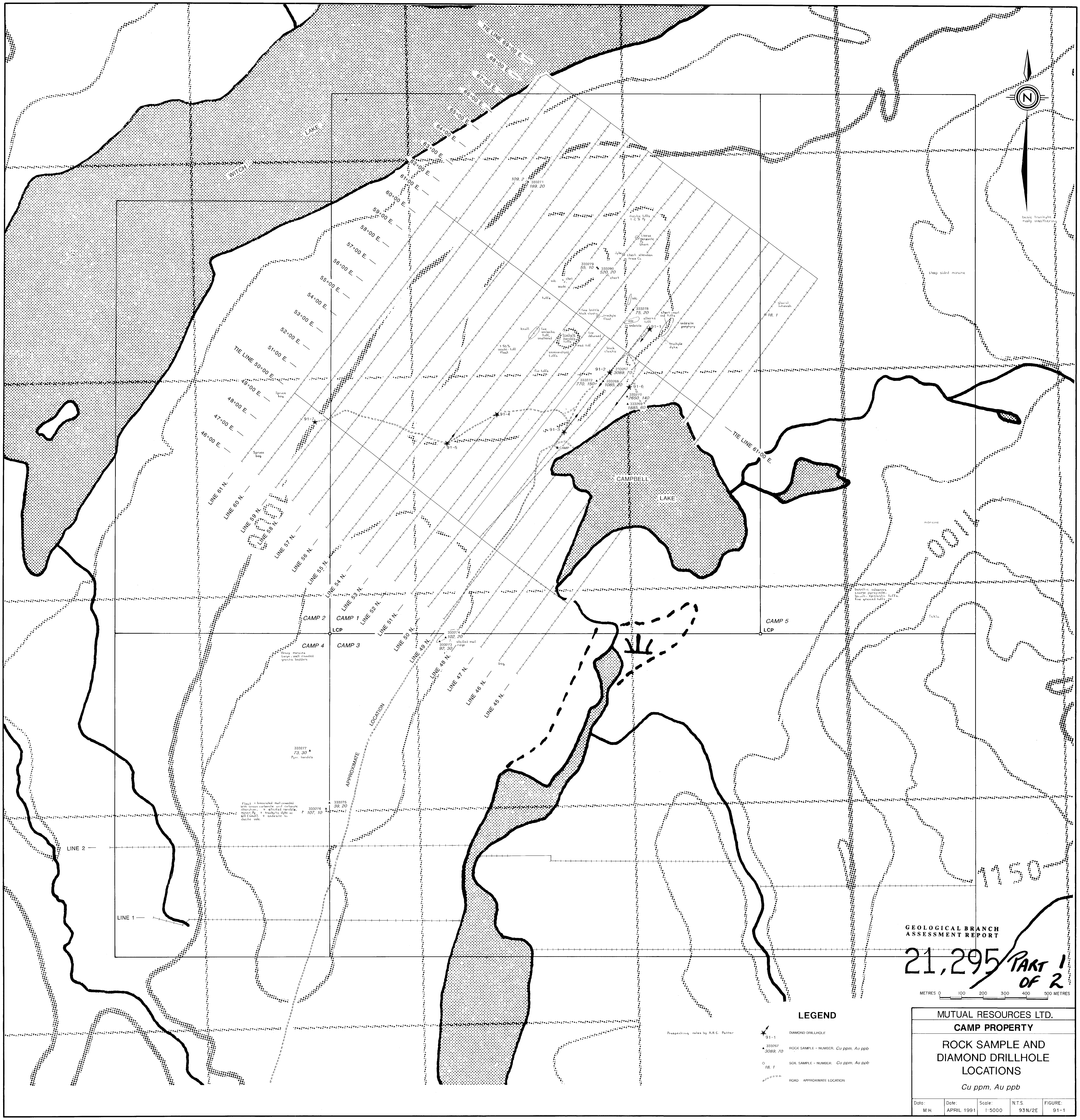
Copy 1. SILVER STANDARD, VANCOUVER, B.C.
2. AL POTTER, BURNABY, B.C.

We hereby certify the following Assay of 14 ROCK samples submitted SEP-15-90 by AL POTTER.

Sample Number	AU g/tonne	AU oz/ton	PT g/tonne	PT oz/ton	PD g/tonne	PD oz/ton
333267	.07	.002	.01	.001	.01	.001
333268	.02	.001				
333269	.06	.002				
333270	.14	.004	.01	.001	.01	.001
333271	.02	.001				
333272	.15	.004				
333273	.03	.001				
333274	.02	.001				
333275	.02	.001				
333276	.01	.001				
333277	.03	.001				
333278	.02	.001				
333279	.01	.001				
333280	.02	.001				

Certified by ______________

MIN-EN LABORATORIES



WITCH LAKE
CAMPBELL LAKE
TIE LINE 50+00 E.
TIE LINE 61+00 E.
TIE LINE 69+00 E.
LINE 1
LINE 2
CAMP 1
CAMP 2
CAMP 3
CAMP 4
CAMP 5
LCP
CAMP
APPROXIMATE LOCATION
91-1
91-2
91-3
91-4
91-5
91-6
91-7
1100
1150
GEOLOGICAL BRANCH
ASSESSMENT REPORT
21,295 PART 1 OF 2
METRES 0 100 200 300 400 500 METRES
LEGEND
91-1 DIAMOND DRILLHOLE
333267 3089, 70 ROCK SAMPLE - NUMBER, Cu ppm, Au ppb
18, 1 SOIL SAMPLE - NUMBER, Cu ppm, Au ppb
ROAD APPROXIMATE LOCATION
MUTUAL RESOURCES LTD.
CAMP PROPERTY
ROCK SAMPLE AND DIAMOND DRILLHOLE LOCATIONS
Cu ppm, Au ppb
Data: M.H.
Date: APRIL 1991
Scale: 1:5000
N.T.S. 93N/2E
FIGURE: 91-1