

87-193-16006

4/87

1986 DIAMOND DRILLING REPORT

on the

SPRUCE CREEK PROPERTY

Shuksan 1-6, 13; Karen 6-8; Kulshan 1-3
(179 Units)

ATLIN MINING DIVISION

FILMED

N.T.S. 104N/11W, 12E

Latitude 59° ^{30'} N
32.6'

Longitude 133° ^{20'} W
29.7'

D.G. PURVIS

Owner: ~~Surprise Lake Exploration Limited Partnership~~

Operator: Placer Development Limited

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

M.B. Gareau

16,006

March 1987

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1.0 SUMMARY AND RECOMMENDATIONS

During September and October 1986 Placer Development Ltd. of Vancouver, B.C. carried out a diamond drilling program on the Spruce Creek property of Surprise Lake Exploration Limited Partnership located near Atlin in northwestern British Columbia. Nineteen holes totaling 1042.55 meters of drilling were completed to test a number of geophysical features for their precious metal potential. Although no economic values of gold or silver were intersected, encouraging bedrock alteration and geochemistry were encountered and further exploration is warranted. Expenditures incurred by Placer for the 1986 drill program totalled \$227,104.67

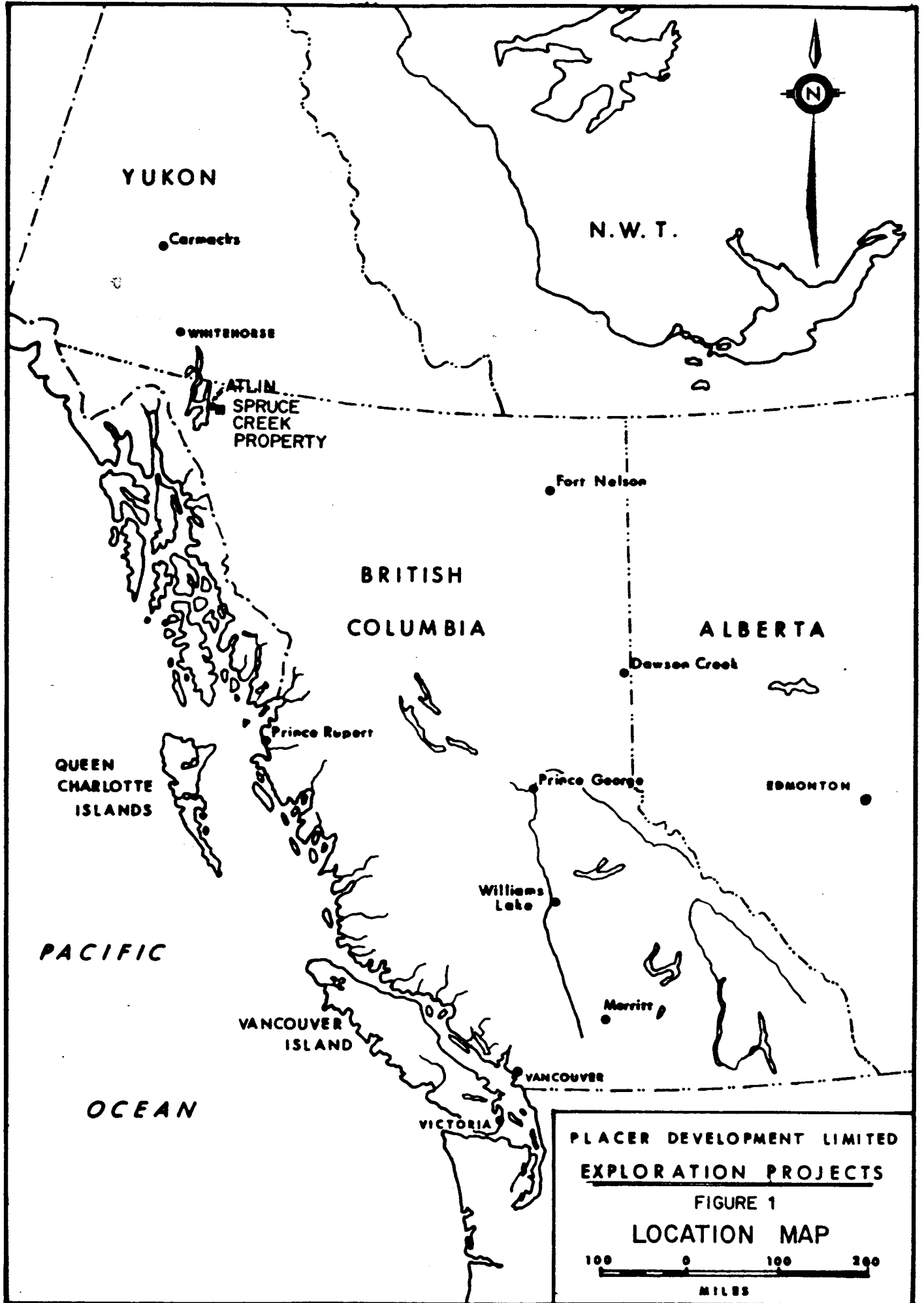
Ground geophysics and drilling are recommended for 1987. A detailed survey of magnetics and VLF-EM on a 50 meter line spacing should be undertaken to include 0-700N on lines 0 to 30W for Grid 2 (Figure 3). Orientation work with "induced polarization" (I.P.) equipment is recommended to see if the sulfides and silicification in DDH 86-24 and 86-27 can be detected; if successful I.P. can be used to locate and outline similar zones for drill testing. A further 1500 meters of NQ-sized diamond drilling will be required to investigate areas with prospective geophysics and geology. Current information suggests that an area extending northeast from DDH 86-24 and 86-27 offers the greatest potential for discovering economic mineralization.

2.0 INTRODUCTION

2.1 Location and Access

The Spruce Creek property is located in northwestern British Columbia near the community of Atlin and occurs within the Atlin Mining Division (Figure 1). Atlin is situated on the east side of Atlin Lake and is a two hour drive over good roads from Whitehorse which lies to the north in the Yukon Territories.

The property is twelve kilometers east of Atlin. It straddles the Spruce Creek valley encompassing an area that includes Dominion Creek and Rant Creek (Figure 2). Approximately 6 km east of town a good gravel road branches off the main Pine Creek road to follow Spruce Creek and provides access to the claims. Dry-weather and four-wheel drive roads allow local access.



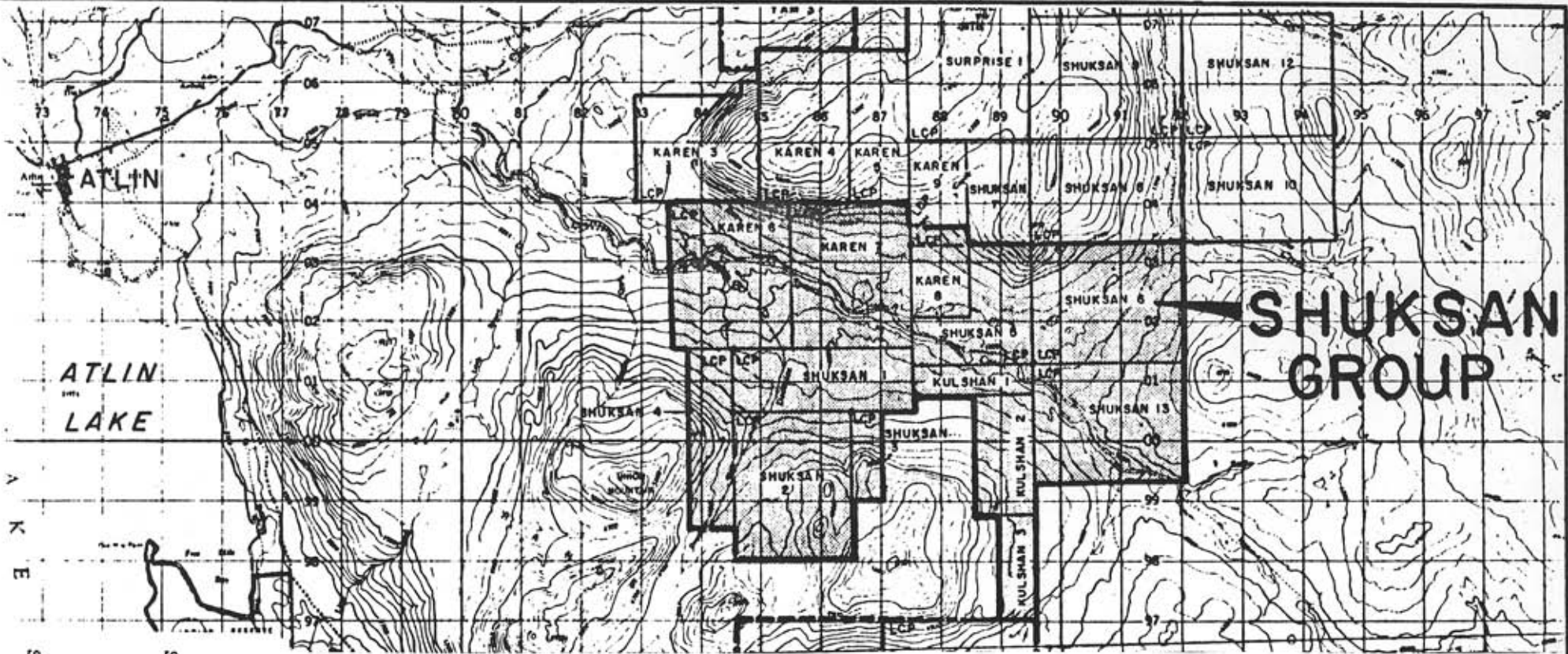


FIGURE 2

CLAIM MAP

SPRUCE CREEK (SHUKSAN) PROPERTY

ATLIN MINING DIVISION, B.C.
 NTS 104N/ 11 & 12

SCALE: 1:100,000

2.2 Claim Status

The Spruce Creek property consists of 13 claims totaling 179 units which are owned by Surprise Lake Exploration Limited Partnership, W. Vancouver, B.C. Placer Development Limited, Vancouver, B.C., is the current operator on the property.

The following claims are included as part of the Spruce Creek property:

<u>NAME</u>	<u>UNITS</u>	<u>ANNIV. DATE</u>	<u>RECORD NO.</u>
Shuksan 1	12	July 28	1359
Shuksan 2	20	July 28	1360
Shuksan 3	3	July 28	1361
Shuksan 4	12	September 2	2027
Shuksan 5	16	September 2	2028
Shuksan 6	20	September 2	2016
Shuksan 13	20	September 2	2023
Karen 6	20	July 28	1369
Karen 7	20	July 28	1370
Karen 8	6	July 28	1371
Kulshan 1	8	January 27	2587
Kulshan 2	12	July 15	2574
Kulshan 3	8	July 15	2575

2.3 Property History

Gold in placer deposits was discovered in the Atlin area in 1897. Production from placer workings began the next year and has continued, essentially uninterrupted, upto the present. Spruce Creek has been the most prolific producer with 260,000 ounces of gold production recorded to 1946; substantial mining has occurred since then and historically there has probably been significant unreported recovery.

Most of the known bedrock gold occurrences were found around the turn of the century. However no lode gold production of consequence has been documented. Since 1981 several companies have initiated exploration programs to locate and evaluate the bedrock sources of the placer gold deposits. Success has been limited but encouraging.

Economic placer gold production comes from the Tertiary gravel deposits of the Atlin district. Surface and underground workings along Spruce Creek trace economic Tertiary gravels into the northwest corner of the property. Further upstream mining of younger Plistocene gravels has been unproductive.

There are no reports of exploration for lode deposits within the Spruce Creek property prior to 1981. From 1982-1984 Standard Gold Mines Ltd. carried out work in the area that included trenching, mapping and sampling on the Shuksan 2 claim; and diamond drilling on the Shuksan 2, Karen 6, and Karen 7 claims (Troup and Wong 1983, 1984). An airborne geophysical survey which includes the Spruce Creek property was completed by Dighem for Standard Gold. Standard Gold's efforts resulted in the discovery of a small gold showing in the southwest corner of the Shuksan 2 claim.

In 1985 Placer Development Ltd. optioned the property and undertook a program of ground geophysics (Cannon 1985) and rotary/percussion drilling (Boyce 1986). During August 1986 additional ground geophysics as an extension to the 1985 surveys was completed (Cannon 1986). Although Placer's work had not identified any gold mineralization it did outline areas with favourable geology.

2.4 Summary of Work

The drill program was carried out between 10 September and 31 October 1987. Caron Diamond Drilling Limited, Whitehorse, Y.T., was the contractor; they were also retained for constructing access roads and drill sites. Nineteen NQ-sized diamond core holes were completed for a total of 1042.55 meters of drilling.

All of the recovered bedrock core was logged, split and sampled. On average a 3 meter sample length was used for visibly unmineralized core; and a 1 meter length for mineralized intersections. Geology, however, was the overriding control and variations in sample length reflect significant changes in the observed lithology. The core samples was split; one half was sampled and shipped to Vancouver to be analyzed. The other half of the split core is stored on the property and is located on the Karen 6 claim on the bluff overlooking the old Nolan minesite (Figure 3).

Table 1 provides a list of the claims where work was performed. It also lists the specific drill holes located on each of these claims.

TABLE 1

<u>Claim</u>	<u>Hole No.</u>
Shuksan 1	86-9, 86-10, 86-11, 86-19, 86-20
Shuksan 4	86-14, 86-15, 86-16, 86-17, 86-18
Karen 6	86-12, 86-13, 86-21, 86-22, 86-23
Karen 7	86-24, 86-25, 86-26, 86-27

3.0 DIAMOND DRILLING

3.1 Target Definition and Objectives

In the Atlin camp lode gold mineralization is found in quartz veins and quartz stockworks associated with intensely carbonatized ultramafic rocks. Ultramafic bodies in the district are commonly bounded by fault structures. Unaltered occurrences of these bodies have strong magnetic signatures; carbonatization destroys their magnetic susceptibility.

Placer Development's primary objective is to locate and evaluate the source(s) of the gold recovered from the "placer" workings situated along Spruce Creek. The initial exploration step was to identify the presence of favourable geological settings within the property up-drainage from the workings, e.g. altered ultramafic bodies. The 1985 programs succeeded in doing so.

Drilling in 1986 was directed to the testing of geophysical features indicative of favourable geology. The flanks of magnetic highs, local magnetic "lows", and associated VLF-EM conductors were specifically targeted for investigation as potentially mineralized settings.

3.2 Geology

Exposures of bedrock on the property are generally restricted to the mountain ridges and their slopes. In the valley, outcrops are occasionally found along the channel of Spruce Creek and less frequently in road cuts. None have been found in the immediate area of drilling; consequently drill core provides the only direct knowledge of bedrock geology here.

The locations of the 1986 diamond drill holes are given on Figure 3 accompanying this report. Geological logs for each are included in Appendix 1 along with all relevant survey information (i.e. hole azimuth, dip, length, etc.). These logs are computer translations of coded observations.

Drill holes 86-12 and 86-19 were stopped in overburden. The remainder intersected bedrock. Overburden depth ranged from 5 to greater than 64 meters, but averaged 10-15 meters. Bedrock core recovery was usually very high (< 95%) except in some of the shattered or gougy fault zones where recoveries fell below 30-40%.

Four main rock types were encountered during drilling:

- 1) sediments consisting of argillite, siltstone and chert
- 2) greenstones, presumably metamorphosed andesitic volcanics
- 3) unaltered and altered ultramafic rocks and serpentinite
- 4) various intermediate to mafic dykes

The sediments and greenstones belong to the Kedahda Formation and Nakina Formation, respectively, of the Permo-Pennsylvanian Cache Creek Group (Monger 1975). The ultramafic bodies are of the "Alpine" variety and apparently have been intruded into the Cache Creek assemblage. They are also classified as Pennsylvanian and Permian in age by Monger (1975). Contacts between the ultramafics and sediments or greenstones are invariably marked by faults. Youngest of all rock types are the relatively fresh dykes which cut the above mentioned units.

Strong magnetic highs in the geophysical data are attributable to the presence of relatively unaltered ultramafics. Weaker elevated magnetic readings appear to be due to the occurrence of pyrrhotite in some of the greenstone units. Structural zones of shearing and faulting intersected during drilling account for a number of the VLF-EM conductors.

3.3 Hydrothermal Alteration and Mineralization

The ultramafic rocks including serpentinite are commonly and extensively affected by hydrothermal alteration. Talc and carbonates are the most frequently observed products of this process, and were observed over significant intersections in 7 holes: DDH 86-9, 11, 15, 17, 24, 25 and 27. The least ultramafics by talc and carbonate, and a loss of magnetic susceptibility which is interpreted to account for local lows in the magnetic survey. Intense talcose alteration with minor silicification bound a dyke intruded into an ultramafic basalt in DDH 86-11.

In DDH 86-24 and DDH 86-27 pervasive silicification, a poorly developed stockworking of quartz veinlets, and disseminated malachite (up to 10-15%) occur as an overprint on core composed of talc and carbonate. This listwaenitic alteration extended for 15.25 meters in DDH 86-24 and 22.6 meters in DDH 86-27. Disseminated fine-grained pyrite accompanies the assemblage, but never exceeds a concentration of 1%.

Quartz and quartz-carbonate veinlets are found in the greenstones, but are a minor component of the rock (i.e. DDH 86-23, 14). Envelopes of bleached country rock up to a few centimeters in width surround some of the veinlets. In DDH 86-23, an intersection of greenstone from 40.20-43.28 m is brecciated, cut by a banded quartz-carbonate vein, and pervasively carbonitized and silicified. The only other significant interval of altered greenstone occurs in DDH 86-10 where silicification extends for several meters away from a fault contact with ultramafics.

Pyrrhotite and pyrite (?) were noted in the greenstones. These sulfides occur on fracture surfaces, adjacent to veins, and as disseminated blebs. The gross control on their distribution is not understood. Metamorphic events rather than mineralizing hydrothermal processes may have played a more important role in the formation of the sulfides in these rocks.

3.4 Assaying and Geochemistry

3.4.1 Sample Analysis

All of the bedrock core samples were analyzed at Placer Development's Vancouver laboratory. The samples were crushed and split; one of the splits was then pulverized. Subsamples of the pulp were assayed for gold and analyzed geochemically for Cu, Zn, Pb, Ni, Ag, As, Hg and Sb. Table 2 summarizes the extraction and detection procedures used.

3.4.2 Results

The analytical results are given in Appendix 1 with the drill logs and are interleaved with the geological descriptions. Several distinct geochemical patterns are evident, but no economic grades of gold, silver or base metals were intersected.

TABLE 2 - ANALYTICAL PROCEDURES

<u>Element</u>	<u>Units</u>	<u>Weight</u>	<u>Extraction</u>	<u>Time</u>	<u>Method</u>	<u>Detection</u>
Au (assayed)	ppm	25	Fired in flux; bead parted with 30% HNO ₃ ; residue digested in Aqua Regia.		Atomic Absorption finish.	0.01
Cu	ppm	0.5	Conc. HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-4000
Zn	ppm	0.5	Conc. HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-3000
Pb	ppm	0.5	Conc. HClO ₄ /HNO ₃	4 hrs.	A.A. Background Corr.	2-3000
Ni	ppm	0.5	Conc. HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-2000
Ag	ppm	0.5	Conc. HClO ₄ /HNO ₃	4 hrs.	A.A. Background Corr.	0.2-20
As	ppm	0.5	Aqua Regia	2 hrs.	DCP Background Corr.	2-2000
Hg	ppb	0.25	Dil. HNO ₃ /HCl	2 hrs.	A.A. Cold Vapor Gen.	5-2000
Sb	ppm	0.5	Aqua Regia	2 hrs.	DCP Background Corr.	2-2000

Nickel, copper and zinc geochemistry responds to changes of lithology. Specifically, elevated concentrations of nickel (>500 ppm), and low copper and zinc values (<20 ppm and <35 ppm, respectively) correspond to intervals of ultramafic rocks. Lead, silver and mercury analytical results are, with few exceptions, low and unremarkable.

Gold, arsenic and antimony display distribution patterns that appear to be indicative of mineralization, albeit weak. The highest gold assay is 0.16 ppm; values >0.02 ppm are considered to be geochemically significant. Arsenic >25 ppm and antimony >5 ppm are also classified as anomalous. Maximum values for these elements are 316 and 142 ppm, respectively.

A relatively large number of samples contain detectable gold, and on its own the gold geochemistry is difficult to interpret. When viewed in conjunction with anomalous arsenic and antimony, however, a distinct multi-element signature emerges. The strongest and most coherent Au-As-Sb response correlates with the zones of listwaenite alteration in DDH 86-24 and 86-27. Intensely carbonatized serpentinite in DDH 86-25 displays a similar but somewhat weaker and less continuous pattern. Several samples of listwaenite in DDH 86-24 also contained up to 2.4 ppm silver; these were the only significant silver results of the drill program. Also in DDH 86-24 anomalous arsenic concentrations occur in carbonate and talc altered ultramafics in core intervals above the listwaenite; immediately below this zone highly shattered and faulted sediments returned anomalous arsenic and antimony values. Short intervals with detectable gold in other holes correlate with faults and altered ultramafics (i.e. DDH 86-15 and 17). In a few instances unassuming ultramafics and greenstones also contain gold in concentrations up to 0.16 ppm (i.e. DDH 86-16 and 20).

4.0 CONCLUSIONS

- 1) No economic grades of gold or silver were obtained from the 1986 diamond drill program on the Spruce Creek property.
- 2) Potential for economic mineralization is indicated by the hydrothermal alteration of ultramafic bodies, particularly the corresponding lithochemical multi-element Au-As-Sb anomaly.

3) Ground magnetic and VLF-EM surveys provide invaluable geological information for this property especially in areas where bedrock is masked by overburden.

5.0 STATEMENT OF EXPENDITURES

The following expenditures were incurred by Placer Development Limited for the diamond drill program on the Spruce Creek Property.

Personnel Costs

M.B. Gareau, geologist, 24 Sept. to 31 Oct. 35.5 days @\$332	\$ 11,786.00
D. Hayward, core sampler, 24 Sept. to 31 Oct., 101 hrs. @ \$15	\$ 1,515.00
	<u>\$ 13,301.00</u>

Camp Costs

Cabin rental 36 nights @ \$50	\$ 1,800.00
Food 36 man-days @\$30	\$ 1,080.00
Vehicle rental & use 36 man-days @ \$65	\$ 2,340.00
Freighting samples	\$ 1,158.76
	<u>\$ 6,378.76</u>

Drilling Costs

As per invoice #2013 E. Caron Diamond Drilling Ltd. (include road access construction)	\$199,660.91
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Analytical Costs

291 core samples (for Au, Cu, Zn, Pb, Ni, Ag, As, Hg and Sb) @ \$21/sample	\$ 6,111.00
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Report Preparation

M. Gareau, geologist 3 days @ \$332	\$ 996.00
H. Goddard, draftsman 2 days @ \$266	\$ 532.00
L. Alexander, typist 1 day @ \$125	\$ 125.00
	<u>\$ 1,653.00</u>
	=====
TOTAL EXPENDITURES	\$227,104.67

6.0 STATEMENT OF QUALIFICATIONS

I, M.B. Gareau, of Placer Development Limited, Vancouver, British Columbia do hereby certify that:

1. I am a geologist.
2. I am a graduate of the University of Dalhousie, Halifax, Nova Scotia with a Bachelor of Science in Geology dated 1977 and an Honours Certificate in Geology dated 1978.
3. I am a Fellow in good standing of the Geological Association of Canada.
4. I have been engaged in mineral exploration throughout Canada since graduation in 1977.
5. I personally supervised the 1986 diamond drill program on the Spruce Creek property and logged the recovered core. I also compiled, assessed and interpreted the data resulting from this work.



M.B. Gareau

7.0 REFERENCES

1. Boyce R.A. 1986. Rotary/ Percussion Drilling Report on the Shuksan Property, Atlin Mining District; B.C. Assessment Report.
2. Cannon R.W. 1985. Ground Geophysical Surveys, Surprise Lake Exploration, Spruce Creek Option, Atlin Mining District; B.C. Assessment Report.
3. Cannon R.W. 1986. Ground Geophysical Surveys, Spruce Creek Option, Atlin Mining District; B.C. Assessment Report.
4. Monger J.W.H. 1975. Upper Paleozoic Rocks of the Atlin Terrane, Northwestern B.C. and South- Central Yukon; G.S.C. Paper 74-47.
5. Troup A.G. and Wong C. 1983. Geochemical, Geological and Geophysical Report on the Shuksan Property; Company report.
6. Troup A.G. and Wong C. 1984. Diamond Drilling, Geochemical, Geological and Geophysical Report on the Shuksan Property; B.C. Assessment Report.

APPENDIX 1

Drill Logs and Assays

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 9 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:86SEP28

Total Depth of Hole: 30.48 MT

True Collar Azm of Hole: 153.00 Collar Dip: -60.00

Northing: -1225.00 Easting: -2400.00 Collar elev: 0.0 MT

Survey: 0.00 to 30.48 True Azm of Hole: 153.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

VLF-CONDUCTOR ON EDGE OF MAGNETIC HIGH
REPRESENTATIVE SPECIMEN COLLECTED FROM EACH SECTION SAMPLED
THIS WILL BE DONE FOR EACH AND EVERY HOLE

From: 0.00MT To: 9.75MT

OVERBURDEN
TO 5.3M GRAVEL & SAND; TO 7.2M LACUS; TO 9.7M TILL ?

From: 9.75MT To: 11.28MT

CORE REC: 100% ROD: 1.0MT

*A001 15601 9.7 11.2 1.5 : 27.00 24.00 6.00 97.0 .30 .01 1.00 32.00 1.00

GREENSTONE LIGHT, GREENISH GRAY
TEXTURE:EQUIGRANULAR

From: 11.28MT To: 11.88MT

CORE REC: 100% ROD: .0MT

*A001 15602 11.2 11.8 .6 : 3.00 18.00 3.00 179.0 .30 .01 2.00 17.00 1.00

SERPENTINE LIGHT, GREENISH GRAY
TEXTURE:GREASY, MOTTLED
STRUCTURE:FAULT DIPPING 60
FAULT IS 4CM GOUGE ZONE BOUNDED BY SLICKENSIDED FRACTURES

From: 11.88MT To: 12.29MT

CORE REC: 100%

*A001 15603 11.8 12.2 .4 : 23.00 10.00 5.00 1030.0 .10 .01 9.00 38.00 1.00

BASALT DARK, GRAY AND WITH 10% OX
EXTREMELY FINE GRAINED
TEXTURE:POPHRYITIC
GRADATIONAL SERPENTINIZATION OF BASALT AT UPPER CONTACT
OLIVINES CRACKED AND HIGHLY ALTERED

From: 12.29MT To: 30.48MT

CORE REC: 99% ROD: 4.9MT

*A001 15604 12.2 15.0 2.7 : 14.00 8.00 5.00 1060.0 .20 .01 13.00 32.00 1.00
*A001 15605 15.0 18.0 3.0 : 14.00 7.00 3.00 1020.0 .10 .01 15.00 17.00 1.00
*A001 15606 18.0 21.0 3.0 : 15.00 7.00 3.00 930.0 .10 .01 22.00 9.00 1.00
*A001 15607 21.0 24.0 3.0 : 12.00 9.00 5.00 840.0 .10 .01 7.00 15.00 1.00
*A001 15608 24.0 27.0 3.0 : 13.00 9.00 5.00 930.0 .10 .01 11.00 23.00 1.00
*A001 15609 27.0 30.4 3.4 : 10.00 8.00 6.00 870.0 .10 .01 10.00 12.00 1.00

SERPENTINE LIGHT, ORANGEISH BROWN
TEXTURE:BLOCKY, MICROVEINED
1% CARBONATE AS MICROVEINS
5% SIDERITE AS VEINS & PATCHES
.3% CLAY AS GOUGE

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

40% TALC AS PERVASIVE
 SIDERITE REPLACEMENT SHOWS AN ORIENTATION ALONG FRACTURES AT 25-
 40 DEGREES AS MEASURED FROM THE PERPEND TO CORE AXIS
 A NUMBER OF CLAY-GOUGE ZONES WITH SLICKENSIDES OCCUR IN THE
 UPPER PORTION OF THIS SECTION

From: 16.30MT To: 16.32MT

100 % OF THIS SUBINTERVAL IS
 FAULT LIGHT, ORANGEISH BROWN
 STRUCTURE:FAULT DIPPING 42

From: 20.40MT To: 20.42MT

100 % OF THIS SUBINTERVAL IS
 FAULT LIGHT, ORANGEISH BROWN
 STRUCTURE:FAULT DIPPING 65

From: 24.00MT To: 24.01MT

100 % OF THIS SUBINTERVAL IS
 FAULT LIGHT, ORANGEISH BROWN
 STRUCTURE:FAULT DIPPING 50

From: 26.60MT To: 26.62MT

100 % OF THIS SUBINTERVAL IS
 FAULT LIGHT, ORANGEISH BROWN
 STRUCTURE:FAULT DIPPING 33

From: 28.45MT To: 28.58MT

100 % OF THIS SUBINTERVAL IS
 FAULT LIGHT, ORANGEISH BROWN
 STRUCTURE:FAULT DIPPING 52

From: 28.77MT To: 30.48MT

ROD: 1. MT
 100 % OF THIS SUBINTERVAL IS
 SERPENTINE PALE, ORANGEISH GRAY
 TEXTURE:BLOCKY, MICROVEINED
 1% CARBONATE AS MICROVEINS
 50% SIDERITE AS VEINS & PATCHES
 3% CLAY AS GOUGE
 20% TALC AS PERVASIVE

GRADATIONAL COLOR CHANGE; LESS OXIDIZED AND LESS FRACTURED

End of Hole

M.B. Lareau

Property: SHUKSAN PROPERTY

Logged by: MBG Date:86SEP28

Total Depth of Hole: 70.10 MT

True Collar Azm of Hole: 153.00 Collar Dip: -60.00

Northing: -1387.00 Easting: -2400.00 Collar elev: 0.0 MT

Survey: 0.00 to 70.10 True Azm of Hole: 153.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TARGET IS A MAGNETIC LOW BETWEEN TWO MAGNETIC HIGHS

From: 0.00MT To: 10.50MT

OVERBURDEN TO 4.6M GRAVEL & SAND; TO 6.1M LACUS; TO 13.5M GRAVEL & SAND

From: 10.50MT To: 23.80MT
CORE REC: 65% ROD: 2.5MT

*A001	15610	10.5	13.5	3.0	5.00	12.00	6.00	1150.0	.10	.01	1.00	26.00	1.00
*A001	15611	13.5	16.5	3.0	4.00	9.00	5.00	1070.0	.10	.01	1.00	20.00	1.00
*A001	15612	16.5	19.5	3.0	5.00	10.00	7.00	1150.0	.10	.01	1.00	20.00	1.00
*A001	15613	19.5	22.5	3.0	7.00	10.00	6.00	1200.0	.10	.01	1.00	12.00	1.00
*A001	15614	22.5	23.8	1.3	11.00	8.00	4.00	1140.0	.10	.01	1.00	23.00	2.00

ULTRAMAFIC DARK, GRAY, WITH MAGNETITE
TEXTURE:UNIFORM TEXTURED, MOTTLED, MICROVEINED
1% CARBONATE AS PERVAS.< VEINS
.3% SIDERITE AS MICROVEINS
2.5% SERPENTINE AS PERVAS.=VEINS
ABUNDANT DISSEMINATED MAGNETITE. MOTTLED DK-MED GREY.
PALER AREAS ALTERED, THE BEGINNINGS OF SERPENTINIZATION, PRED ON
AND ADJ MICROFRACT

From: 13.50MT To: 23.80MT
CORE REC: 100% ROD: 4.0MT
100% OF THIS SUBINTERVAL IS

ULTRAMAFIC DARK, GRAY, WITH MAGNETITE
TEXTURE:BLOCKY, MOTTLED, MICROVEINED
1% CARBONATE AS PERVAS.< VEINS
.3% SIDERITE AS MICROVEINS
2.5% SERPENTINE AS PERVAS.=VEINS
SERPENTINIZATION OCCURING ALONG FRACTURES AS YELLOWISH FILAMENTS
(CHRYSOTILE & CARBONATE)
OCCASIONAL ICM ZONE OF ALTERATION, VEINLIKE ALONG FRACTURES
WITH ADJACENT PATCHES OF REPLACEMENT ALTERATION

From: 23.80MT To: 28.80MT
CORE REC: 75% ROD: 0.5MT

*A001	15615	23.8	26.3	2.5	12.00	10.00	5.00	1120.0	.10	.01	1.00	12.00	1.00
*A001	15616	26.3	28.8	2.5	21.00	9.00	6.00	1170.0	.10	.01	1.00	6.00	1.00

FAULT DARK, GRAY, WITH MAGNETITE
TEXTURE:SLICKENSIDED FRACTURES, GREASY
.3% CARBONATE AS MICROVEINS
.1% SIDERITE AS MICROVEINS
5% CLAY AS GOUGE
FAULT IN ULTRAMAFICS AT CONTACT WITH GREENSTONE. 60-70% OF ZONE
IS COMPLETELY SHATTERED. SOME GOUGE RECOVERED. SLICKENSIDE ON

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

28.60 to 28.60
 FRACTURE SURFACES V.COMMON
 LOWER CONTACT OF FAULT REDRILLED

From: 28.80MT To: 29.40MT
 CORE REC: 100% RGD: .0MT

*A001 15617 28.8 29.4 .6 : 14.00 28.00 5.00 46.0 .10 .01 1.00 12.00 1.00

ANDESITE MEDIUM, GRAY, WITH PLAGIOCLASE
 FINE GRAINED
 TEXTURE:POPRHYRITIC
 STRUCTURE:QUARTZ MICROVEIN DIPPING 60, QUARTZ MICROVEIN DIPPING 15
 .1% CARBONATE AS MICROVEINS
 .07% SIDERITE AS PERVASIVE
 .3% QUARTZ AS MICROVEINS
 .1% CLAY AS MICROVEINS
 WEAKLY PORPHYRITIC WITH ANHEDRAL PLAGIOCLASE PHENO, THAT ALMOST
 APPEAR AMYGDALOIDAL. NON-MAGNETIC

From: 29.40MT To: 70.10MT
 CORE REC: 100% RGD: 24.0MT

*A001	15618	29.4	31.4	2.0	70.00	4.00	7.00	30.0	.10	.01	1.00	17.00	1.00
*A001	15619	31.4	34.0	2.6	58.00	26.00	7.00	48.0	.10	.01	1.00	26.00	1.00
*A001	15620	34.0	37.0	3.0	76.00	39.00	7.00	49.0	.10	.01	1.00	35.00	1.00
*A001	15621	37.0	40.0	3.0	60.00	34.00	6.00	45.0	.10	.01	1.00	15.00	1.00
*A001	15622	40.0	43.0	3.0	48.00	23.00	7.00	54.0	.10	.01	1.00	9.00	1.00
*A001	15623	43.0	46.0	3.0	59.00	24.00	6.00	44.0	.10	.01	1.00	17.00	1.00
*A001	15624	46.0	49.0	3.0	67.00	26.00	3.00	52.0	.10	.01	1.00	23.00	1.00
*A001	15625	49.0	52.0	3.0	59.00	25.00	3.00	42.0	.10	.01	1.00	20.00	1.00
*A001	15626	52.0	55.0	3.0	60.00	30.00	3.00	50.0	.10	.01	1.00	20.00	1.00
*A001	15627	55.0	58.0	3.0	65.00	29.00	1.00	52.0	.10	.01	1.00	12.00	1.00
*A001	15628	58.0	61.0	3.0	62.00	27.00	15.00	40.0	.10	.01	1.00	6.00	1.00
*A001	15629	61.0	64.0	3.0	70.00	31.00	17.00	45.0	.10	.01	1.00	17.00	1.00
*A001	15630	64.0	67.0	3.0	63.00	33.00	6.00	38.0	.10	.01	1.00	15.00	1.00
*A001	15631	67.0	70.1	3.1	74.00	34.00	7.00	36.0	.10	.01	1.00	5.00	1.00

GREENSTONE MEDIUM, GRAYISH GREEN
 TEXTURE:MOTTLED, WISPY
 STRUCTURE:CONTACT DIPPING 00
 .1% CARBONATE AS MICROVEINS
 WKLY MAGNETIC DUE TO PYRRHOTITE. EXTREMELY HARD ROCK
 CONTACT IS SHARP BUT IRREG. WITH GSTN REPLACING ANDESITE
 QTZ VEINLETS IN ANDESITE CUT-OFF AT CONTACT; GSTN ENVELOPES
 ANDESITE

From: 29.40MT To: 31.40MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GRAYISH GREEN
 TEXTURE:MOTTLED, WISPY
 STRUCTURE:CONTACT DIPPING 00
 .1% CARBONATE AS MICROVEINS
 10% SIDERITE AS VEINS & PATCHES

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

40% SILICIFICATION AS PERVASIVE
 7% FELDSPAR AS VEINS & PATCHES
 WISPY IRREG QTZ-FELD? VEINLETS AND PATCHES, DECREASING AWAY FROM
 FAULT. GREY PATCHES=SILICA FLOODING] (H>6), NON-MAGNETIC

From: 31.40MT To: 34.00MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GRAYISH GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:MOTTLED, WISPY
 STRUCTURE:CONTACT DIPPING 00
 .1% CARBONATE AS MICROVEINS
 20% SILICIFICATION AS PERVASIVE
 .03% FELDSPAR AS PATCHES
 NON-MAGNETIC, HARDNESS<6

From: 34.00MT To: 59.50MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GRAYISH GREEN
 FINE GRAINED
 TEXTURE:MOTTLED, WISPY
 STRUCTURE:CONTACT DIPPING 00
 .3% CARBONATE AS PERVAS.=VEINS
 .1% QUARTZ AS MICROVEINS
 1% SILICIFICATION AS PATCHES
 .1% PYRRHOTITE AS PERVAS.< VEINS
 .1% CHLORITE AS MICROVEINS
 .03% FELDSPAR AS ENVELOPES
 MED-DK GREY PATCHES SHOWING TEXTURES OF ORIGINAL ROCK TYPE,
 PROBABLY A FINE GRAINED, FINELY PORPHYRITIC INTERM VOLCANIC,
 WISPY IRREGULAR MICROFRACTURE FILLINGS OF CHLORITE (BLACK)
 AND SILICA (GREY) OCCUR AT VARIABLE INTERVALS, I.E. WILL BE
 PRESENT IN A 30-50 CM SECTION AND THEN ABSENT
 IRREGULAR MILKY WHITE PATCHES AND VEINLETS OF QTZ OCCUR AT IRREG
 INTERVALS
 FE-SULFIDES ALL APPEAR TO BE PYRRHOTITE, BROWNISH COLOR AND WKLY
 MAGNETIC
 SULFIDES ARE PATCHILY DISTRIBUTED

From: 42.40MT To: 42.50MT

100 % OF THIS SUBINTERVAL IS
 VOLCANIC DARK, GRAYISH GRAY, WITH BIOTITE AND WITH 0%
 FINE GRAINED
 TEXTURE:POPRHYRITIC
 10% QUARTZ AS MICROVEINS
 10% FELDSPAR AS MICROVEINS

43.30 to 44.50
 RELATIVELY UNALTERED REMANENT OF ORIGINAL ROCK TYPE
 ABNT METAL MARKINGS ON COPE FROM DRILL BIT, BRASSY LOOKING

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

From: 46.30MT To: 46.45MT

100 % OF THIS SUBINTERVAL IS

GREENSTONE MEDIUM, GRAYISH GREEN

TEXTURE:MOTTLED, WISPY

STRUCTURE:QUARTZ MICROVEIN DIPPING 60, QUARTZ MICROVEIN DIPPING 85

5% CARBONATE AS MICROVEINS

5% QUARTZ AS MICROVEINS

.01% CHALCOPYRITE AS MICROVEINS

1% AS MICROVEINS

MOST OF THE SULFIDES OCCUR AS SELVAGES TO THE VEINS OR ALONG

OFFSHOOTING MICROFRACTURES

From: 50.60MT To: 51.10MT

80 % OF THIS SUBINTERVAL IS

VOLCANIC DARK, GRAYISH GRAY AND WITH

EXTREMELY FINE GRAINED

TEXTURE:PORPHYRITIC

2.5% PYRRHOTITE AS PERVAS.>VEINS

EXHIBITS REMANENT TEXTURES OF ORIGINAL LITHOLOGY

WKLY PORPHYRITIC, HARDNESS=5

CONTACT IS GRADATIONAL TO GREENSTONE, GREENSTONE HARDNESS=5.5-6

From: 52.70MT To: 54.10MT

100 % OF THIS SUBINTERVAL IS

GREENSTONE

TEXTURE:MOTTLED, WISPY

STRUCTURE:CONTACT DIPPING 60

2.5% CARBONATE AS MICROVEINS

2.5% QUARTZ AS MICROVEINS

.1% PYRRHOTITE AS SELVAGES

2% CHALCOPYRITE AS

IRREGULAR AND DISCONTINUOUS QTZ-CARB VEINLETS WITH ASSOCIATED

PYRRHOTITE AND CHALCOPYRITE. MILKY WHITE COLOR

From: 56.10MT To: 56.20MT

100 % OF THIS SUBINTERVAL IS

GREENSTONE MEDIUM, GRAYISH GREEN

TEXTURE:MOTTLED, WISPY

STRUCTURE:CONTACT DIPPING 60

10% CARBONATE AS MICROVEINS

10% QUARTZ AS MICROVEINS

10% SILICIFICATION AS PERVASIVE

.3% PYRRHOTITE AS PERVAS.=VEINS

??% TALC AS MICROVEINS

IRREG, WORMY, MILKY VEINLETS

From: 57.90MT To: 57.92MT

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
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100 % OF THIS SUBINTERVAL IS
 VEIN MEDIUM, GRAYISH WHITE
 50% CARBONATE AS MICROVEINS
 50% QUARTZ AS MICROVEINS
 2.5% PYRRHOTITE AS DISSEMINATIONS
 .01% CHALCOPYRITE AS DISSEMINATIONS
 1-2 CM QZ-CB VEINLET WITH SHARP BUT IRREG CONTACT
 SULFIDES WITHIN AND ENVELOPING VEIN

From: 59.50MT To: 70.10MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GRAYISH GREEN
 TEXTURE:UNIFORM TEXTURED, WISPY
 STRUCTURE:CONTACT DIPPING 00
 .1% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .1% PYRRHOTITE AS PERVAS.=VEINS
 .01% CHALCOPYRITE AS MICROVEINS
 LITTLE IF ANY DIFFERENCE FROM ROCK ABOVE, JUST SEEMS TO BE MORE
 UNIFORM IN TEXTURE, FINER GRAINED? LESS WISPY TEXTURED
 STILL OCCASSIONAL PATCHES OF REMANENT WKLY PORPHYRITIC FINE
 GRAINED MAFIC VOLCANIC AS SEEN ABOVE
 HARDNESS=5.5-6
 PALE GREY SILICA FLOODING QUITE OBVIOUS IMMEDIATELY BELOW FAULT
 HARDNESS IN REST OF CORE DUE TO GREENSTONE ALTERATION (PREDOM
 OF EPIDOTE AND ALBITE)
 ORIGINAL ROCK A SLIGHTLY SOFTER ANDESITIC VOLCANIC

End of Hole

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT01

Total Depth of Hole: 46.33 MT

True Collar Azm of Hole: 150.00 Collar Dip: -50.00

Northing: -1241.00 Easting: -2400.00 Collar elev: 0.0 MT

Survey: 0.00 to 46.33 True Azm of Hole: 150.00 Dip: -50.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

VLF CONDUCTOR ON NORTH EDGE OF MAGNETIC HIGH

From: 0.00MT To: 15.40MT

OVERBURDEN TO 15.4M GRAVEL & SAND; AT 12M 15CM CLAY-SILT SEAM W/ PEBBLES

From: 15.40MT To: 46.33MT
CORE REC: 100%

Samp	From	To	Intrvl	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB	HG	PPM SB
*A001	15632	15.4	18.4	3.0	6.00	18.00	4.00	1350.0	.10	.01	1.00	17.00	1.00
*A001	15633	18.4	21.4	3.0	5.00	20.00	5.00	1575.0	.10	.01	1.00	15.00	1.00
*A001	15634	21.4	24.4	3.0	5.00	19.00	6.00	1515.0	.10	.01	1.00	9.00	1.00
*A001	15635	24.4	26.4	2.0	3.00	18.00	6.00	1450.0	.10	.01	1.00	23.00	1.00
*A001	15636	26.4	28.1	1.7	3.00	15.00	5.00	1350.0	.10	.01	1.00	9.00	1.00
*A001	15637	28.1	30.5	2.4	6.00	10.00	3.00	960.0	.10	.01	2.00	17.00	1.00
*A001	15638	30.5	33.1	2.6	46.00	40.00	3.00	121.0	.10	.01	1.00	12.00	1.00
*A001	15639	33.1	33.8	.7	5.00	9.00	4.00	1170.0	.10	.01	3.00	17.00	1.00
*A001	15640	33.8	36.8	3.0	3.00	11.00	4.00	1220.0	.10	.01	1.00	17.00	1.00
*A001	15641	36.8	39.8	3.0	2.00	10.00	3.00	1240.0	.10	.01	1.00	12.00	3.00
*A001	15642	39.8	42.8	3.0	2.00	9.00	3.00	1120.0	.10	.01	1.00	15.00	1.00
*A001	15643	42.8	46.3	3.5	2.00	7.00	3.00	1060.0	.10	.01	1.00	9.00	3.00

BASALT DARK, PURPLEISH BROWN, WITH MAGNETITE
TEXTURE: STOCKWORKED, MICROVEINED
.03% CARBONATE AS MICROVEINS
5% TALC AS STOCKWORK
HIGHLY ALTERED, STRONGLY MAGNETIC, APHANITIC, PURPLISH-BROWN

BASALT
TALCOSE ALTERATION EXTENDS ALONG FRACTURES AND AS PATCHES OF
PERVASIVE ALTERATION LEND THE ROCK A SPIDERWEB-LIKE OR STOCK-
WORK TEXTURE. 10-20% OF THE ROCK IS ALTERED
TALC = WHITE TO YELLOWISH GREEN, FINE GRAINED, V.SOFT, GREASY

From: 15.40MT To: 19.81MT

100% OF THIS SUBINTERVAL IS
BASALT DARK, PURPLEISH BROWN, WITH MAGNETITE
TEXTURE: BLOCKY, MICROVEINED
STRUCTURE: FAULT DIPPING 40, FAULT DIPPING 40
.03% CARBONATE AS MICROVEINS
2.5% CLAY AS GCGE
2.5% TALC AS MICROVEINS

JUST CAUGHT THE EDGE OF A FAULT ZONE, THIS IS PROBABLY THE VLF-
CONDUCTOR.
GOUGE ZONES UP TO 20 CM, GROUND MORE BROKEN THAN DEEPER IN HOLE
30-40 CM SECTIONS OF CORE IN THIS INTERVAL ARE INTENSELY FRACT.

From: 19.81MT To: 46.33MT

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
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100 % OF THIS SUBINTERVAL IS
 BASALT DARK, PURPLEISH BROWN, WITH MAGNETITE
 TEXTURE:STOCKWORKED, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 5% TALC AS STOCKWORK

From: 26.40MT To: 28.10MT

100 % OF THIS SUBINTERVAL IS
 BASALT DARK, GREENISH BROWN, WITH MAGNETITE
 TEXTURE:STOCKWORKED, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 .1% SIDERITE AS PATCHES
 20% TALC AS PERVAS. >VEINS
 QUICK BUT GRADATIONAL INCREASE IN THE INTENSITY OF TALC ALTER.

From: 28.10MT To: 30.48MT

100 % OF THIS SUBINTERVAL IS
 BASALT DARK, PURPLEISH GRAY, WITH MAGNETITE
 TEXTURE:STOCKWORKED, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 20% SILICIFICATION AS PERVASIVE
 .1% TALC AS MICROVEINS

ABRUPT CHANGE OVER <5CM TO MODERATELY SILICIFIED ROCK
 SILICIFIED OR HORNFELSED ? TALC ONLY AT UPPER CONTACT

From: 30.50MT To: 30.65MT

100 % OF THIS SUBINTERVAL IS
 FAULT DARK, PURPLEISH BROWN
 STRUCTURE:FAULT DIPPING 15

From: 30.65MT To: 33.83MT

100 % OF THIS SUBINTERVAL IS
 AUGITE PORPHYRY DYKE DARK, PURPLEISH GRAY, WITH AUGITE, FELDSPAR
 EXTREMELY FINE GRAINED
 TEXTURE:POPRHYRITIC
 STRUCTURE:QUARTZ MICROVEIN DIPPING 25
 .03% QUARTZ AS MICROVEINS
 5% TALC AS STOCKWORK

NON-MAGNETIC, ESSENTIALLY UNALTERED AUGITE-FELD PORPHYRY DYKE
 SYMMETRICAL ALTERATION OF BASL FROM IMPLACEMENT OF DYKE

From: 33.12MT To: 33.83MT

100 % OF THIS SUBINTERVAL IS
 BASALT DARK, PURPLEISH GRAY, WITH MAGNETITE
 TEXTURE:STOCKWORKED, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 20% SILICIFICATION AS PERVASIVE
 .03% TALC AS MICROVEINS

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB H6	PPM SB
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From: 33.83MT To: 36.70MT

100 % OF THIS SUBINTERVAL IS

BASALT DARK, GREENISH BROWN, WITH MAGNETITE
 TEXTURE: STOCKWORKED, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 .3% SIDERITE AS PATCHES
 2.5% SILICIFICATION AS PERVASIVE
 30% TALC AS PERVAS.>VEINS

From: 36.70MT To: 46.33MT

100 % OF THIS SUBINTERVAL IS

BASALT DARK, GREENISH GRAY, WITH MAGNETITE
 TEXTURE: STOCKWORKED, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 2.5% SIDERITE AS PATCHES
 10% SILICIFICATION AS PERVASIVE
 10% TALC AS PERVAS.< VEINS

SLIGHTLY PALER GREENISH PURPLISH BROWN; PALENESS DUE TO SILICA
 FLOODING (PATCHY). MAKES THE CORE SLIGHTLY HARDER THAN THAT
 ABOVE THE DYKE. ALSO MORE TALC ALTERATION; PATCHY
 SMALLER REMANENT PATCHES OF FE-CARBONATE ALTERATION?

46.33 to 46.33

FORGOT TO RECORD RQD DATA

End of Hole

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 12 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT02

Total Depth of Hole: 40.54 MT

True Collar Azm of Hole: 151.00 Collar Dip: -60.00

Northing: -793.00 Easting: -2200.00 Collar elev: 0.0 MT

Survey:
0.00 to 40.54 True Azm of Hole: 151.00 Dip: -60.00

WEAK VLF-CONDUCTOR ON EDGE OF WEAK MAGNETIC HIGH IS THE TARGET

From: 0.00MT To: 40.54MT

OVERBURDEN
HOLE STOPPED IN OVERBURDEN, OVERSHOT DRILL TARGET
MOVED HOLE TO NEXT SITE TO TEST A SIMILAR TARGET

0.00 to 14.17

14.71 to 19.05
SMALL BOULDERS AND PEBBLES IN SILT AND CLAY

19.05 to 40.54
LACUSTRINE

SAND AND GRAVEL, STRATIFIED?
End of Hole

AUTOVALU

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT04

Total Depth of Hole: 46.48 MT

True Collar Azm of Hole: 151.00 Collar Dip: -75.00

Northing: -913.

Easting: -2200.00

Collar elev:

0.0 MT

Survey:

0.00 to 46.48 True Azm of Hole: 151.00 Dip: -75.00

*A001

Samp

From

To

Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TARGET IS A WEAK VLF-CONDUCTOR ON EDGE OF A BROAD, LOW CONTRAST
MAGNETIC HIGH
HOLE ANGLE WAS STEEPENED FROM ORIGINAL PLAN TO AVOID PROBLEMS
OF SUSPECTED DEEP OVERBURDEN

SURFACE TOPO SLOPES DOWNHILL AT 331 AZ SLOPE = 10 DEG

From: 0.00MT To: 13.20MT

OVERBURDEN
MOSTLY LARGE BOULDERS THE SAME LITHOLOGY AS BEDROCK
OCCASSIONAL 10-30 CM SECTION WITH PEBBLES WITH A FEW OBVIOUSLY

TRANSPORTED LITHOLOGIES
VERY MINOR SILT-SAND SEAMS

13.20 to 13.20
DEEPEST PEBBLE INTERVAL

From: 13.20MT To: 23.00MT

CORE REC: 100% RQD: 2.0MT

*A001	15644	13.2	15.0	1.8	:	48.00	38.00	3.00	51.0	.10	.01	1.00	9.00	1.00
*A001	15645	15.0	18.0	3.0	:	42.00	29.00	4.00	58.0	.10	.01	1.00	6.00	1.00
*A001	15646	18.0	21.0	3.0	:	44.00	39.00	3.00	38.0	.20	.01	1.00	3.00	1.00
*A001	15647	21.0	24.0	3.0	:	46.00	38.00	3.00	47.0	.10	.01	1.00	6.00	1.00

GREENSTONE MEDIUM, GREEN
TEXTURE:BLOCKY, MOTTLED
.03% CARBONATE AS PERVAS.< VEINS
.1% LIMONITE AS MICROVEINS

HIGHLY BROKEN BEDROCK; SINGLE LITHOLOGY, NON-MAGNETIC, HARD 5-6
SAND, SILT & MUD FOUND IN OPEN FRACTURES, WASHED IN
ALL FRACTURE SURFACES. RUSTY, PROBABLY OXIDIZED SULFIDES

From: 23.00MT To: 30.48MT

CORE REC: 99% RQD: 2.9MT

*A001	15648	24.0	27.0	3.0	:	33.00	36.00	3.00	43.0	.10	.01	1.00	32.00	1.00
*A001	15649	27.0	30.4	3.4	:	38.00	41.00	3.00	39.0	.10	.01	1.00	15.00	1.00

GREENSTONE MEDIUM, GREEN
TEXTURE:BLOCKY
1% CARBONATE AS PERVAS.>VEINS
.1% QUARTZ AS MICROVEINS
.01% PYRITE AS MICROVEINS
.03% LIMONITE AS MICROVEINS

SAME ROCK TYPE AND UNIT AS ABOVE, HARDNESS 5-6, NON-MAGNETIC
PYRITE ON FRESHLY BROKEN FRACTURE SURFACE

26.10 to 26.40

27.80 to 27.90

RELICT ANDESITE
LESS ALTERED SEGMENT OF APHANITIC PORPHYRITIC DARK GREEN ANDESITE

E

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB H6 PPM SB

--continue--

30.10 to 30.20
RELIC T ANDESITE

From: 30.48MT To: 31.39MT
CORE REC: 100% RQD: .0MT

*A001 15650 30.4 31.3 .9 : 11.00 66.00 7.00 23.0 .10 .01 1.00 23.00 1.00

DYKE MEDIUM, LIMEISH GREEN
TEXTURE:UNIFORM TEXTURED, BLOCKY
WEAKLY TO MODERATELY MAGNETIC, OLIVE GREEN, APHANITIC, FRESH
CORE BROKEN BOTH ENDS, CONTACTS NOT VISIBLE

From: 31.39MT To: 46.48MT
CORE REC: 90% RQD: 2.0MT

*A001 15651 31.3 34.4 3.0 : 34.00 39.00 2.00 51.0 .10 .01 1.00 9.00 1.00
*A001 15652 34.4 37.4 3.0 : 36.00 42.00 3.00 38.0 .10 .01 1.00 9.00 1.00
*A001 15653 37.4 40.4 3.0 : 37.00 44.00 3.00 40.0 .10 .01 1.00 15.00 1.00
*A001 15654 40.4 43.4 3.0 : 38.00 45.00 2.00 46.0 .10 .01 1.00 9.00 1.00
*A001 15655 43.4 46.4 3.0 : 36.00 50.00 2.00 50.0 .10 .01 1.00 15.00 1.00

GREENSTONE MEDIUM, GREEN
TEXTURE:BLOCKY
1% CARBONATE AS PERVAS.>VEINS
.01% QUARTZ AS MICROVEINS
.3% CHLORITE AS MICROVEINS
.1% LIMONITE AS PERVAS.< VEINS
NON-MAGNETIC; NO FRESH SULFIDES BUT OCCASIONAL LIMONITE PSEUDO-
MORPH AFTER PYRITE

34.30 to 34.50
OPEN FRACTURE WITH SAND WASHED IN, BEDROCK SURFACE MUST BE
RELATIVELY CLOSE
MOST FRACTURES OXIDIZED, LIMONITE COATED

From: 43.58MT To: 45.41MT
CORE REC: 20%
100% OF THIS SUBINTERVAL IS

LOST CORE
TEXTURE:BLOCKY
1% CARBONATE AS PERVAS.>VEINS
.01% QUARTZ AS MICROVEINS
CORE DROPPED OUT OF CORE TUBE, MOST LOST WHEN REDRILLED

End of Hole

AUTOVALU

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 14 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT06

Total Depth of Hole: 33.53 MT

True Collar Azm of Hole: 155.00 Collar Dip: -70.00

Northing: -1175.00 Easting: -3000.00 Collar elev: 0.0 MT

Survey:

0.00 to 33.53 True Azm of Hole: 155.00 Dip: -70.00

*A001 Samp

From To

Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TARGET IS A WEAK MAGNETIC LOW
DRILL SITE IS IN A TOPOGRAPHIC LOW, OLD DRAINAGE GULLY

From: 0.00MT To: 7.70MT

OVERBURDEN
DRILL PAD MATERIAL TO 1.5 M; THEN HUMUS TO 2.5M; BOULDERY GRAVEL
AND SAND, ONLY A MINOR AMOUNT OF THE FINES WAS RECOVERED

From: 7.70MT To: 9.70MT

CORE REC: 100% RGD: .0MT

*A001 15656 7.7 9.7 2.0 : 55.00 50.00 3.00 49.0 .10 .01 1.00 20.00 1.00

HORNBLLENDE POPRPHYRY DYKE LIGHT, GRAY AND WITH 5%
MEDIUM GRAINED
TEXTURE:POPRHYRITIC, BLOCKY
.03% CARBONATE AS MICROVEINS
.01% QUARTZ AS MICROVEINS
THERE APPEARS TO BE AN 8-10 CM CHILLED MARGIN TO THE DYKE
HARDNESS=5-5.5, NON-MAGNETIC, APPEARS FRESH, SLICKENSIDED FRACT.
SHARP CONTACT WITH GREENSTONE

From: 9.70MT To: 21.68MT

CORE REC: 93% RGD: 4.3MT

*A001 15657 9.7 12.7 3.0 : 59.00 49.00 3.00 54.0 .10 .01 1.00 9.00 1.00
*A001 15658 12.7 15.7 3.0 : 54.00 58.00 3.00 48.0 .10 .01 1.00 12.00 1.00
*A001 15659 15.7 18.7 3.0 : 53.00 42.00 2.00 40.0 .10 .01 1.00 6.00 1.00
*A001 15660 18.7 21.6 2.9 : 51.00 40.00 4.00 39.0 .10 .01 1.00 6.00 1.00

GREENSTONE LIGHT, GRAYISH GREEN
TEXTURE:BLOCKY, MICROVEINED
STRUCTURE:CONTACT DIPPING 27
1% CARBONATE AS PERVAS.=VEINS
.3% CHLORITE AS MICROVEINS
NON-MAGNETIC, HARDNESS=5.5-6
NO REMANENT TEXTURES

From: 10.61MT To: 11.89MT

CORE REC: 40%

100% OF THIS SUBINTERVAL IS

GREENSTONE
TEXTURE:BLOCKY, MICROVEINED
STRUCTURE:CONTACT DIPPING 27
1% CARBONATE AS PERVAS.=VEINS

From: 13.05MT To: 13.07MT

100% OF THIS SUBINTERVAL IS

VEIN LIGHT, GRAYISH WHITE

AUUVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

2.5% CARBONATE AS MICROVEINS
 90% QUARTZ AS MICROVEINS
 2.5% CHLORITE AS MICROVEINS
 VEIN OCCURS AS CORE FRAGMENT, DETACHED FROM REST OF CORE
 NO CONTACTS VISIBLE

From: 21.68MT To: 24.10MT
 CORE REC: 35% RGD: .5MT

*A001	15661	22.9	24.1	1.2	:	42.00	55.00	7.00	45.0	.10	.01	14.00	32.00	1.00
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FAULT PALE, GREENISH GRAY
 .01% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 SHEARED AND SLICKENSIDED, BASICALLY ORIGINAL LITHOLOGY NOT
 RECOGNIZABLE

From: 21.68MT To: 22.90MT
 CORE REC: 0%
 100% OF THIS SUBINTERVAL IS
 LOST CORE

22.90 to 22.90
 CORE FRAGMENTS ARE A LIGHT TO MED GREY CHERT
 23.00 to 23.00
 ONE CORE FRAGMENT RECOGNIZABLE AS GREENSTONE

From: 24.10MT To: 32.10MT

*A001	15662	24.1	25.2	1.1	:	52.00	53.00	6.00	79.0	.10	.01	1.00	32.00	1.00
*A001	15663	25.2	28.2	3.0	:	55.00	38.00	5.00	58.0	.10	.01	1.00	17.00	1.00
*A001	15664	28.2	31.2	3.0	:	59.00	35.00	3.00	43.0	.10	.01	1.00	17.00	1.00
*A001	15665	31.2	32.1	.9	:	53.00	35.00	4.00	50.0	.10	.01	1.00	12.00	1.00

GREENSTONE

From: 24.10MT To: 25.20MT
 CORE REC: 95% RGD: .5MT

100% OF THIS SUBINTERVAL IS
 GREENSTONE DARK, BLACKISH GREEN
 TEXTURE: STOCKWORKED, BRECCIATED
 .1% CARBONATE AS SELVAGES
 5% QUARTZ AS STOCKWORK
 20% CHLORITE AS BRECCIA FILLINGS
 .1% CLAY AS GOUGE
 ??% FELDSPAR AS ENVELOPES
 CRACKLE BRECCIA ? NO ROTATION OF CLASTS ?
 NON-MAGNETIC, NO SULFIDES.

From: 25.20MT To: 32.10MT
 CORE REC: 100% RGD: 3.0MT

100% OF THIS SUBINTERVAL IS
 GREENSTONE LIGHT, GRAYISH GREEN
 TEXTURE: BLOCKY, MICROVEINED
 1% CARBONATE AS VEINS & PATCHES

--continue--

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

.3% QUARTZ AS MICROVEINS
 2.5% CHLORITE AS VEINS & PATCHES
 NON-MAGNETIC, HARDNESS=5.5-6

From: 30.78MT To: 31.20MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE

From: 32.10MT To: 33.53MT
 CORE REC: 100% RQD: .0MT

*A001	15666	32.1	33.5	1.4	60.00	59.00	5.00	50.0	.10	.01	1.00	17.00	1.00
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DYKE DARK, GRAY, WITH BIOTITE
 TEXTURE: EQUIGRANULAR, UNIFORM TEXT
 STRUCTURE: CONTACT DIPPING 78
 2.5% CARBONATE AS PERVAS. > VEINS
 .1% QUARTZ AS MICROVEINS
 RELATIVELY FRESH APPEARANCE, NON-MAGNETIC, ABNT PRIMARY BIOTITE
 HAS BEEN PERVASIVELY CARBONATE ALTERED
 CARBONATE COATING MOST FRACTURE SURFACES 1MM

21.68 to 22.90

NO SAMPLE TAKEN

End of Hole

ADJUTANT

Property: SHUKSAN PROPERTY

Logged by: MBG Date:86OCT08

Total Depth of Hole: 32.92 MT

True Collar Azm of Hole: 155.00 Collar Dip: -60.00

Northing: -1460.00 Easting: -2800.00 Collar elev: 0.0 MT

Survey:

0.00 to 32.92 True Azm of Hole: 155.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB H6 PPM SB

TARGET IS A MAGNETIC LOW ON THE SE FLANK OF A MAGNETIC HIGH

From: 0.00MT To: 16.76MT

OVERBURDEN
Boulder. GRAVEL AND SAND COMPLETE SECTION

From: 16.76MT To: 32.92MT

*A001	15667	16.7	20.6	3.8	:	4.00	13.00	4.00	840.0	.10	.01	14.00	23.00	1.00
*A001	15668	20.6	23.5	2.9	:	3.00	13.00	4.00	1270.0	.10	.01	1.00	6.00	1.00
*A001	15669	23.5	25.0	1.5	:	3.00	15.00	4.00	1400.0	.10	.01	1.00	15.00	1.00
*A001	15670	25.0	28.2	3.2	:	5.00	15.00	10.00	1340.0	.10	.07	1.00	15.00	1.00
*A001	15671	28.2	31.0	2.7	:	6.00	16.00	3.00	1440.0	.10	.02	6.00	20.00	1.00
*A001	15672	31.0	32.9	1.9	:	6.00	17.00	3.00	1410.0	.10	.01	1.00	20.00	1.00

ULTRAMAFIC, WITH MAGNETITE
TEXTURE:EQUIGRANULAR, UNIFORM TEXT, BLOCKY

From: 16.76MT To: 17.40MT

CORE REC: 100% RQD: .0MT
100% OF THIS SUBINTERVAL IS
ULTRAMAFIC DARK, GREENISH GRAY, WITH MAGNETITE
TEXTURE:EQUIGRANULAR, UNIFORM TEXT, BLOCKY
.03% CARBONATE AS MICROVEINS
2.5% SIDERITE AS PERVAS.< VEINS
IN PATCHES STRONGLY MAGNETIC, HARDNESS=5.5

From: 17.40MT To: 20.60MT

CORE REC: 80% RQD: 1.0MT
100% OF THIS SUBINTERVAL IS
ULTRAMAFIC PALE, GREENISH GRAY, WITH MAGNETITE
TEXTURE:UNIFORM TEXTURED, MOTTLED, BLOCKY
60% SIDERITE AS PERVAS.>VEINS
.3% CHLORITE AS GOUGE
10% TALC AS PERVAS.=VEINS

WEAKLY MAGN ; THOROUGHLY ALTERED TO FE-CARBONATE AND TALC
ADJACENT AND ALONG FRACTURES FE-CARBONATE IS OXIDIZED TO AN
ORANGE BROWN.
DARKER GREY PATCHES ARE REMANENTS OF PARTIALLY ALTERED ULMF
NO QUARTZ VEINING OR SILICIFICATION

From: 20.60MT To: 25.00MT

CORE REC: 100% RQD: 1.0MT
100% OF THIS SUBINTERVAL IS
ULTRAMAFIC DARK, GREENISH GRAY, WITH MAGNETITE
TEXTURE:EQUIGRANULAR, UNIFORM TEXT, BLOCKY
.1% CARBONATE AS MICROVEINS
.3% SIDERITE AS MICROVEINS

AUTOVALU

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
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--continue--

.1% CLAY AS MICROVEINS
20% TALC AS PERVAS.>VEINS
SOME SLICKENSIDES ON FRACTURES

From: 25.00MT To: 28.25MT

CORE REC: 98% RQD: .8MT

100 % OF THIS SUBINTERVAL IS

ULTRAMAFIC MEDIUM, GRAYISH GREEN, WITH MAGNETITE

TEXTURE:EQUIGRANULAR, UNIFORM TEXT, BLOCKY

STRUCTURE:FAULT DIPPING 85

.1% SIDERITE AS MICROVEINS

30% CLAY AS GOUGE

60% TALC AS PERVAS.>VEINS

RARE UNALTERED PATCHES MAGNETIC, GOUGE ZONE CUT AT A STEEP ANGLE

FAULT PROBABLY NOT VERY WIDE < 10 CM

From: 28.25MT To: 32.92MT

CORE REC: 100% RQD: 1.0MT

100 % OF THIS SUBINTERVAL IS

ULTRAMAFIC DARK, GREENISH GRAY, WITH MAGNETITE

TEXTURE:EQUIGRANULAR, UNIFORM TEXT, BLOCKY

.03% CARBONATE AS MICROVEINS

.03% CLAY AS GOUGE

20% TALC AS PERVAS.>VEINS

SLICKENSIDES ON MOST FRACTURES

From: 31.70MT To: 32.92MT

100 % OF THIS SUBINTERVAL IS

ULTRAMAFIC DARK, GREENISH GRAY, WITH MAGNETITE

TEXTURE:EQUIGRANULAR, UNIFORM TEXT, BLOCKY

INTENSITY OF TALC ALTERATION INCREASING TOWARDS END OF HOLE

End of Hole

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT09

Total Depth of Hole: 57.60 MT True Collar Azm of Hole: 150.00 Collar Dip: -50.00

Northing: -1300.00 Easting: -2800.00 Collar elev: 0.0 MT

Survey: 0.00 to 57.60 True Azm of Hole: 150.00 Dip: -50.00
 *A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TARGET IS A MAGNETIC LOW ? AND WEAK VLF CONDUCTOR BETWEEN TWO
 MAGNETIC HIGHS

From: 0.00MT To: 21.90MT

OVERBURDEN
 INTERBEDDED BOULDER GRAVEL AND SAND
 DISCRETE LAYERS OF FINE TO MED SAND, UP TO 70CM INTERVALS

From: 21.90MT To: 57.60MT
 CORE REC: 100% ROD: 22.0MT

*A001	15673	21.9	24.9	3.0	3.00	14.00	3.00	1350.0	.10	.16	6.00	41.00	1.00
*A001	15674	24.9	27.9	3.0	3.00	17.00	3.00	1550.0	.10	.01	1.00	49.00	2.00
*A001	15675	27.9	29.0	1.1	2.00	13.00	2.00	1390.0	.10	.01	1.00	32.00	2.00
*A001	15676	29.0	32.0	3.0	2.00	12.00	2.00	1300.0	.10	.01	1.00	15.00	2.00
*A001	15677	32.0	35.0	3.0	2.00	12.00	2.00	1300.0	.10	.01	1.00	17.00	1.00
*A001	15678	35.0	38.0	3.0	2.00	12.00	2.00	1270.0	.10	.01	1.00	9.00	1.00
*A001	15679	38.0	41.0	3.0	2.00	14.00	2.00	1310.0	.10	.01	1.00	41.00	1.00
*A001	15680	41.0	44.0	3.0	2.00	14.00	2.00	1300.0	.10	.01	2.00	20.00	1.00
*A001	15681	44.0	47.0	3.0	2.00	15.00	2.00	1340.0	.10	.01	10.00	32.00	1.00
*A001	15682	47.0	50.0	3.0	2.00	14.00	2.00	1230.0	.10	.02	14.00	17.00	1.00
*A001	15683	50.0	53.0	3.0	2.00	14.00	2.00	1320.0	.10	.04	2.00	17.00	1.00
*A001	15684	53.0	56.0	3.0	2.00	12.00	2.00	1240.0	.10	.04	18.00	32.00	1.00
*A001	15685	56.0	57.6	1.6	3.00	9.00	2.00	1050.0	.10	.01	24.00	15.00	1.00

ULTRAMAFIC DARK, GRAY, WITH MAGNETITE
 TEXTURE: UNIFORM TEXTURED, EQUIGRANULAR, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 .1% QUARTZ AS MICROVEINS
 2.5% SERPENTINE AS MICROVEINS
 DENSE, DARK, STRONGLY MAGNETIC UM ROCK OF UNIFORM GRAIN SIZE.
 SOME DIFFICULTY IN ESTABLISHING GRAIN SIZE, GENERALLY FINE.
 HARDNESS=5.5

From: 21.90MT To: 29.00MT

100 % OF THIS SUBINTERVAL IS
 ULTRAMAFIC DARK, GRAY, WITH MAGNETITE
 TEXTURE: UNIFORM TEXTURED, EQUIGRANULAR, MICROVEINED
 .03% CARBONATE AS MICROVEINS
 .1% QUARTZ AS MICROVEINS
 5% SERPENTINE AS MICROVEINS
 ??% TALC AS MICROVEINS

SOMEWHAT IRREGULAR, MILKY WHITE QUARTZ VEINS AND PATCHES
 ACCOMPANIED BY SLIGHTLY MORE INTENSE SERPENTINE ALTERATION
 SOME TALC ACCOMPANYING THE QUARTZ VEINLETS ?? OR ALL SERP.

From: 32.30MT To: 33.70MT

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
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100 % OF THIS SUBINTERVAL IS
ULTRAMAFIC, WITH MAGNETITE
TEXTURE:UNIFORM TEXTURED, EQUIGRANULAR
.03% CARBONATE AS MICROVEINS
1% QUARTZ AS MICROVEINS

From: 41.70MT To: 43.20MT

100 % OF THIS SUBINTERVAL IS
ULTRAMAFIC DARK, GRAY, WITH MAGNETITE
TEXTURE:BLOCKY, EQUIGRANULAR, MICROVEINED
.03% CARBONATE AS MICROVEINS
.1% QUARTZ AS MICROVEINS
2.5% SERPENTINE AS MICROVEINS

From: 42.00MT To: 42.10MT

100 % OF THIS SUBINTERVAL IS
ULTRAMAFIC DARK, GRAY, WITH MAGNETITE
TEXTURE:UNIFORM TEXTURED, EQUIGRANULAR, MICROVEINED
.03% CARBONATE AS MICROVEINS
.1% QUARTZ AS MICROVEINS
80% CLAY AS GOUGE
2.5% SERPENTINE AS MICROVEINS
.07% TALC AS MICROVEINS

43.90 to 43.90
GOUGY ZONE WITH SLICKENSIDES

SHORT INTERVALS WITH SLIGHTLY SPOTTY TEXTURE DUE TO INSIPIENT
ALTERATION, TO WHAT ? (LIGHTER GREY-WHITE COLORATION)
MAGNETIC LOW NOT EVIDENT IN THE CORE
MAGNETIC LOW A FUNCTION OF DIPOLE EFFECT

End of Hole

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 17 ****

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Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT10

Total Depth of Hole: 45.72 MT

True Collar Azm of Hole: 155.00 Collar Dip: -60.00

Northing: -1400.00

Easting: -2600.00

Collar elev:

0.0 MT

Survey:

0.00 to 45.72 True Azm of Hole: 155.00 Dip: -60.00

*A001 Samp

From To

Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TARGET IS MAGNETIC LOW ON SE FLANK OF MAGNETIC HIGH

From: 0.00MT To: 17.37MT

OVERBURDEN
STRATIFIED PEBBLY-COBBLY GRAVEL AND FINE TO MED. SAND

From: 17.37MT To: 19.70MT
CORE REC: 98% RQD: .8MT

*A001 15686 17.3 19.7 2.3 : 10.00 10.00 6.00 910.0 .10 .08 .00 20.00 1.00

REGOLITH OCCURS
ULTRAMAFIC LIGHT, ORANGEISH BROWN
.01% CARBONATE AS PERVASIVE
.07% SIDERITE AS MASSIVE
.07% TALC AS MASSIVE
.07% LIMONITE AS PERVASIVE
HIGHLY WEATHERED REDROCK, POORLY DEVELOPED REGOLITH
50% IS SOLID ROCK, THE REMAINDER CONSISTS OF CLAY TO GRANULES

From: 19.70MT To: 28.00MT
CORE REC: 100% RQD: 5.0MT

*A001 15687 19.7 22.7 3.0 : 5.00 9.00 3.00 720.0 .10 .03 5.00 23.00 1.00
*A001 15688 22.7 25.7 3.0 : 6.00 7.00 4.00 850.0 .10 .03 20.00 20.00 1.00
*A001 15689 25.7 28.0 2.3 : 8.00 8.00 3.00 770.0 .10 .06 41.00 15.00 1.00

ULTRAMAFIC PALE, WHITEISH GRAY, WITH MAGNETITE
FINE GRAINED
TEXTURE:MOTTLED, UNIFORM TEXT
.01% CARBONATE AS MICROVEINS
50% SIDERITE AS MASSIVE
.03% QUARTZ AS MICROVEINS
30% TALC AS MASSIVE
.1% LIMONITE AS PERVAS.=VEINS
ALMOST COMPLETELY ALTERED TO FE-CARBONATE AND TALC
MEDIUM GREY, LESS ALTERED PATCHES DISPLAY WEAK TO MODERATE
REMANENT MAGNETISM

From: 26.50MT To: 27.40MT
CORE REC: 95% RQD: .5MT

100% OF THIS SUBINTERVAL IS
FAULT LIGHT, ORANGEISH GRAY
STRUCTURE:UPPER CONTACT DIPPING 45, LOWER CONTACT DIPPING 30
.01% CARBONATE AS MICROVEINS
50% SIDERITE AS MASSIVE
5% CLAY AS GOUGE
30% TALC AS MASSIVE
2.5% LIMONITE AS ENCRUSTATIONS
OXIDATION OF SIDERITE; SLICKENSIDED FRACTURES

*A001 Samp From To Intrvl: PPM_CU PPM_ZN PPM_PB PPM_NI PPM_AG PPM_AU PPM_AS PPB_HG PPM_SB

--continue--

----- FRACTURE AT TOP OF INTERVAL 45 (C1); BOTTOM 30 (C2). -----

From: 28.00MT To: 30.80MT
CORE REC: 100% RGD: 1.0MT

*A001 15690 28.0 30.8 2.8 : 53.00 24.00 10.00 170.0 .20 .01 1.00 12.00 1.00

SKARN OCCURS
SKARN LIGHT, GREEN, WITH DIOPSIDE, FELDSPAR

FINE GRAINED
TEXTURE: UNIFORM TEXTURED
STRUCTURE: CONTACT DIPPING 0
2.5% CARBONATE AS VEINS & PATCHES
2.5% VESUVIANITE AS VEINS & PATCHES
THE CONTACT IS A SCM FAULT GOUGE ZONE
CALC-SILICATE WITH SYMMETRICAL TALC ALTERATION OF A BLACK FG
BASALT ? AT EITHER END OF INTERVAL, HARDNESS=5.5-6, DENSE

From: 28.00MT To: 28.45MT

100 % OF THIS SUBINTERVAL IS
SKARN LIGHT, WHITEISH BLACK, WITH DIOPSIDE, FELDSPAR
EXTREMELY FINE GRAINED
TEXTURE: UNIFORM TEXTURED
STRUCTURE: CONTACT DIPPING 0
2.5% CARBONATE AS VEINS & PATCHES
2.5% VESUVIANITE AS VEINS & PATCHES
5% CLAY AS GOUGE
40% TALC AS SPOTS

28.25 to 28.45
LEAST ALTERED

From: 30.40MT To: 30.80MT

100 % OF THIS SUBINTERVAL IS
SKARN LIGHT, WHITEISH BLACK, WITH DIOPSIDE, FELDSPAR
EXTREMELY FINE GRAINED
TEXTURE: BRECCIATED
STRUCTURE: CONTACT DIPPING 65
2.5% CARBONATE AS VEINS & PATCHES
2.5% VESUVIANITE AS VEINS & PATCHES
2.5% CLAY AS GOUGE
60% TALC AS SPOTS

30.45 to 30.60
TALC ALTERATION EMPHASIZES A BRECCIATED TEXTURE
LEAST ALTERED; BLACK DENSE BUT SOFT; BASALT ?
LOWER CONTACT GOUGY.

From: 30.80MT To: 33.30MT
CORE REC: 100% RGD: 1.0MT

*A001 15691 30.8 33.3 2.5 : 16.00 8.00 5.00 1220.0 .10 .01 1.00 15.00 1.00

ULTRAMAFIC PALE, WHITEISH GRAY, WITH MAGNETITE
FINE GRAINED

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM_SB

--continue--

TEXTURE:MOTTLED, UNIFORM TEXT
 STRUCTURE:QUARTZ MICROVEIN DIPPING 15
 40% SIDERITE AS PERVASIVE
 .3% QUARTZ AS MICROVEINS
 .1% CLAY AS GOUGE
 40% TALC AS PERVASIVE
 .1% LIMONITE AS MICROVEINS
 WEAKLY MAGNETIC SLIGHTLY LESS ALTERED GREY PATCHES

From: 33.30MT To: 45.72MT
 CORE REC: 100% RQD: 8.0MT

*A001	15692	33.3	36.3	3.0	:	9.00	10.00	4.00	1320.0	.10	.02	13.00	12.00	1.00
*A001	15693	36.3	39.8	3.5	:	12.00	14.00	6.00	1000.0	.10	.01	13.00	6.00	1.00
*A001	15694	39.8	42.0	2.2	:	10.00	9.00	4.00	1390.0	.10	.03	1.00	12.00	1.00
*A001	15695	42.0	42.9	.9	:	10.00	9.00	3.00	950.0	.10	.01	1.00	15.00	1.00
*A001	15696	42.9	45.7	2.7	:	10.00	6.00	3.00	1150.0	.10	.06	16.00	17.00	1.00

SERPENTINE MEDIUM, GRAY, WITH MAGNETITE
 TEXTURE:MICROVEINED
 STRUCTURE:CONTACT DIPPING 15
 .01% CARBONATE AS MICROVEINS
 ??% QUARTZ AS MICROVEINS
 90% SERPENTINE AS MASSIVE
 SMALL INTERVALS (DARKER) MAGNETIC; HARDNESS<5
 SLIGHT GREENISH TINT, DULL, WAXY FEEL
 VERY SHARP AND ABRUPT UPPER CONTACT

From: 39.80MT To: 42.00MT

100 % OF THIS SUBINTERVAL IS
 SERPENTINE LIGHT, GRAY, WITH MAGNETITE
 TEXTURE:MICROVEINED
 STRUCTURE:CONTACT DIPPING 15
 .01% CARBONATE AS MICROVEINS
 ??% QUARTZ AS MICROVEINS
 90% SERPENTINE AS MASSIVE
 40% TALC AS PATCHES
 GRADUAL INCREASE FROM 10% SPOTTY TALCOSE ALTERATION TO ALMOST
 60% PATCHY ALTERATION

From: 42.00MT To: 42.95MT

100 % OF THIS SUBINTERVAL IS
 SERPENTINE PALE, GRAY, WITH MAGNETITE
 TEXTURE:MICROVEINED
 STRUCTURE:CONTACT DIPPING 15
 .01% CARBONATE AS MICROVEINS
 ??% SIDERITE AS PERVASIVE
 ??% QUARTZ AS MICROVEINS
 90% SERPENTINE AS MASSIVE
 80% TALC AS MASSIVE

From: 42.95MT To: 45.72MT

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB

--continue--

100 % OF THIS SUBINTERVAL IS
SERPENTINE MEDIUM, GRAY, WITH MAGNETITE

TEXTURE: MICROVEINED

STRUCTURE: CONTACT DIPPING 15

.01% CARBONATE AS MICROVEINS

40% SIDERITE AS MASSIVE

??% QUARTZ AS MICROVEINS

10% CLAY AS PATCHES

90% SERPENTINE AS MASSIVE

40% TALC AS MASSIVE

ALMOST COMPLETELY ALTERED TO TALC AND FE-CARBONATE

VERY DIFFICULT TO MAKE ESTIMATES OF ALTERATION ASSEMBLAGES

MORE FRACTURED; MIGHT BE MORE TALC THAN FE-CARBONATE; V. SOFT

From: 44.00MT To: 44.20MT

100 % OF THIS SUBINTERVAL IS

FAULT MEDIUM, GRAY

STRUCTURE: FAULT DIPPING 30

End of Hole

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 18 ****

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Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT11

Total Depth of Hole: 24.99 MT

True Collar Azm of Hole: 155.00 Collar Dip: -60.00

Northing: -1590.00 Easting: -2753.00 Collar elev: 0.0 MT

Survey: 0.00 to 24.99 True Azm of Hole: 155.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TESTING GEOLOGY IN AN AREA OF SPIKEY VLF AND LOW MAGNETICS

From: 0.00MT To: 14.80MT

OVERBURDEN
MOSTLY COBBLES AND PEBBLES: FINES PROBABLY WASHED AWAY
MAYBE SOME TILL AND BROKEN BEDROCK IN BOTTOM METER

From: 14.80MT To: 23.35MT
CORE REC: 85% RQD: 1.5MT

*A001	15697	14.8	17.8	3.0	:	79.00	69.00	6.00	37.0	:10	:01	1.00	6.00	1.00
*A001	15698	17.8	20.8	3.0	:	77.00	59.00	6.00	33.0	:10	:01	1.00	6.00	1.00
*A001	15699	20.8	23.3	2.5	:	74.00	59.00	7.00	30.0	:10	:01	1.00	9.00	1.00

ARGILLITE V. DARK, GRAYISH BLACK
TEXTURE: BLOCKY, UNIFORM TEXT
.3% CARBONATE AS MICROVEINS
.01% PYRITE AS DISSEMINATIONS
CONCOIDAL FRACTURE, VERY BLOCKY, HARDNESS=5-6
NO SEDIMENT TEXTURES, FAIRLY MASSIVE

22.83 to 22.86
REDRILLED WHITE QTZ EVE RHYOLITE FRAGMENT, TOTALLY OUT OF PLACE
PEBBLE THAT FELL INTO THE HOLE. I HAVE REMOVED AND DISCARDED IT

From: 23.35MT To: 24.99MT
CORE REC: 100% RQD: .0MT

*A001	15700	23.3	24.9	1.6	:	60.00	55.00	5.00	32.0	:10	:01	1.00	9.00	1.00
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SILTSTONE MEDIUM, GRAY
TEXTURE: BLOCKY, CRACKLED
.1% CARBONATE AS MICROVEINS
.01% QUARTZ AS MICROVEINS
.01% PYRITE AS MICROVEINS
DEFINITELY MORE SILICEOUS; CRACKLED WITH FRACTURES INFILLED BY
BLACK FINE GRAINED MATERIAL. HARDNESS=6. NO SEDIMENT TEXTURES.
CONTACT GRADATIONAL; BARELY DISCERNABLE COLOR CHANGE OVER 10'S
OF CENTIMETERS.

24.99 to 24.99
JUST AS R. CANNON PREDICTED, SEDIMENTS

End of Hole

AUTOVALU

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 19 ****

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Property: SHUKSAN PROPERTY

Logged by: MBG Date:86OCT14

Total Depth of Hole: 73.15 MT

True Collar Azm of Hole: 145.00 collar Dip: -60.00

Northing: -1475.00 Easting: -2200.00 Collar elev: 0.0 MT

Survey:

0.00 to 73.15 True Azm of Hole: 145.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB H6 PPM SB

TARGET, LOOKING FOR NE EXTENSION OF CARBONATIZED ULMF DRILLED IN
DDH86-9. PLAYING ON SUBTLE FEATURES OF THE MAGNETIC DATA

From: 0.00MT To: 73.15MT

OVERBURDEN

HOLE STOPPED IN OVERBURDEN, TOO DEEP TO CONTINUE

0-12.9 M CLASTS IN A FG MATRIX, TILL ?

12.9-13.4 M SILT LAYER

13.4-32.0 M CLASTS IN A SILTY-CLAY MATRIX, POORLY SORTED, TILL?

32.0-41.1 M CLAY WITH PEBBLES AND OCC. COBBLE, A DISTINCT LAYER

LACUSTRINE WITH CLASTS DUMPED IN

41.1-56.4 M COBBLES AND PEBBLES IN A SILTY-CLAY MATRIX, TILL ?

56.4-59.7 M LOST

59.7-65.2 M SAND AND GRAVEL

65.2-72.2 M SAND

72.2-72.8 M BOULDERS

72.8-73.1 M LAMINATED SILT AND CLAY

ON EDGE OF BURIED BEDROCK CANYON

End of Hole

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PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 20 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT15

Total Depth of Hole: 76.50 MT

True Collar Azm of Hole: 150.00 Collar Dip: -70.00

Northing: -1415.00 Easting: -1800.00 Collar elev: 0.0 MT

Survey: 0.00 to 76.50 True Azm of Hole: 150.00 Dip: -70.00

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB Hg	PPM SB

TARGET IS A STRONG VLF CONDUCTOR
STEEPENED THE ANGLE OF THE HOLE ANTICIPATING DEEP OVERBURDEN
SURFICIAL DEPOSITS INCLUDE KAMES AND HUMMOCKY MORAIN

From: 0.00MT To: 6.10MT

OVERBURDEN
PEBBLE AND COBBLE GRAVEL WITH INTERVALS OF PEBBLY SAND

From: 6.10MT To: 15.00MT

CORE REC: 100% RQD: 3.0MT

*A001	15701	6.1	9.0	2.9	45.00	25.00	7.00	32.0	.10	.01	30.00	2.50	1.00
*A001	15702	9.0	12.0	3.0	70.00	43.00	4.00	42.0	.10	.02	1.00	2.50	1.00
*A001	15703	12.0	15.0	3.0	62.00	43.00	6.00	40.0	.10	.01	1.00	12.00	1.00

GREENSTONE MEDIUM, GREEN
EXTREMELY FINE GRAINED
TEXTURE:UNIFORM TEXTURED, BLOCKY
.03% CARBONATE AS MICROVEINS
.1% QUARTZ AS MICROVEINS
.01% PYRITE AS MICROVEINS
1% CHLORITE AS MICROVEINS
HARDNESS=5.5-6; NON-MAGNETIC; NO ORIGINAL TEXTURES
BLACK WISPY CHLORITE?-QUARTZ MICROVEINS COMMON BUT PATCHY

From: 6.10MT To: 9.00MT

CORE REC: 100% RQD: 1.0MT

100% OF THIS SUBINTERVAL IS
GREENSTONE MEDIUM, GREEN
EXTREMELY FINE GRAINED
TEXTURE:UNIFORM TEXTURED, BLOCKY
STRUCTURE:QUARTZ VEIN DIPPING 88
.3% CARBONATE AS SELVAGES
10% QUARTZ AS MICROVEINS
2.5% PYRITE AS PERVASIVE VEINS
2.5% CHLORITE AS MICROVEINS
IN AND OUT OF A QUARTZ VEIN RUNNING VERY CLOSE TO CORE AXIS
VEIN IRREGULAR AND OF VARIABLE WIDTH BUT GENERALLY <5-7 MM
VEIN SHOWING SOME BRECCIATION OF GREENSTONE. VEIN QTZ WHITE
BLACK WISPY MATERIAL (CHLORITE?) IN AND ADJACENT QUARTZ VEIN AND
IN MICROVEINS

14.30 to 14.30

DISCRETE WHITE QUARTZ-CARBONATE VEINLETS CUT AN IRREGULAR,
WISPY 2 CM DARK QUARTZ-CHLORITE VEIN

From: 15.00MT To: 70.00MT
CORE REC: 100% RQD: 4.0MT

*A001	15704	15.0	18.0	3.0	71.00	40.00	5.00	37.0	.10	.02	3.00	2.50	4.00
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*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
--continue--													
*A001	15705	18.0	21.0	3.0	69.00	39.00	6.00	39.0	.10	.01	1.00	2.50	1.00
*A001	15706	21.0	24.0	3.0	56.00	51.00	3.00	47.0	.30	.06	63.00	2.50	1.00
*A001	15707	24.0	27.0	3.0	48.00	40.00	3.00	43.0	.10	.04	2.00	2.50	2.00
*A001	15708	27.0	30.0	3.0	29.00	39.00	5.00	43.0	.10	.03	1.00	2.50	3.00

GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:UNIFORM TEXTURED, BLOCKY
 .03% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 PYRITE IS ASSOCIATED WITH THE QUART-CARBONATE VEINLETS

From: 16.10MT To: 16.20MT

5 % OF THIS SUBINTERVAL IS
 VEIN MEDIUM, WHITE
 STRUCTURE:QUARTZ MICROVEIN DIPPING 30
 .1% CARBONATE AS MICROVEINS
 5% QUARTZ AS MICROVEINS
 .3% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 70% FELDSPAR AS ENVELOPES
 QTZ VEINLET WITH 4-7CM FELDSPAR ALTERATION ENVELOPE EACH SIDE

From: 17.80MT To: 17.81MT

10 % OF THIS SUBINTERVAL IS
 VEIN MEDIUM, WHITE
 STRUCTURE:QUARTZ MICROVEIN DIPPING 12
 2.5% CARBONATE AS MICROVEINS
 10% QUARTZ AS MICROVEINS
 2.5% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 60% FELDSPAR AS ENVELOPES
 1MM QTZ-CARB MICROVEIN WITH 5MM FELDSPAR ENVELOPE ON BOTH
 SIDES. PYRITE OCCURS IN THE VEIN, IN THE ENVELOPE, AND IN MICRO-
 FRACTURES EXTENDING FROM THE MICROVEIN

From: 18.50MT To: 18.56MT

70 % OF THIS SUBINTERVAL IS
 VEIN DARK, WHITEISH BLACK
 TEXTURE:PRECCIATED, BANDED
 STRUCTURE:QUARTZ VEIN DIPPING 45
 40% QUARTZ AS VEINS
 2.5% PYRITE AS MICROVEINS
 20% CHLORITE AS ENVELOPES
 CHLORITIC ALTERATION OF GREENSTONE CLASTS
 IRREGULAR, WISPY VEIN WITH BLACK CHLORITE

From: 20.20MT To: 20.20MT

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

100 % OF THIS SUBINTERVAL IS
 VEIN DARK, WHITEISH BLACK
 STRUCTURE:QUARTZ MICROVEIN DIPPING 43
 .03% CARBONATE AS MICROVEINS
 30% QUARTZ AS MICROVEINS
 .3% PYRITE AS MICROVEINS
 60% CHLORITE AS ENVELOPES

From: 20.64MT To: 20.65MT

100 % OF THIS SUBINTERVAL IS
 VEIN MEDIUM, WHITE
 STRUCTURE:QUARTZ VEIN DIPPING 40
 70% QUARTZ AS VEINS
 .3% PYRITE AS MICROVEINS
 20% CHLORITE AS ENVELOPES
 ??? FELDSPAR AS VEINS

From: 30.00MT To: 45.00MT
 CORE REC: 100% RQD: 5.0MT

*A001	15709	30.0	33.0	3.0	:	42.00	37.00	4.00	39.0	.10	.01	1.00	2.50	1.00
*A001	15710	33.0	36.0	3.0	:	54.00	40.00	6.00	46.0	.10	.01	1.00	16.00	1.00
*A001	15711	36.0	39.0	3.0	:	75.00	44.00	5.00	47.0	.10	.01	1.00	8.00	1.00
*A001	15712	39.0	42.0	3.0	:	49.00	48.00	4.00	39.0	.10	.01	1.00	23.00	3.00
*A001	15713	42.0	45.0	3.0	:	60.00	43.00	5.00	35.0	.10	.01	1.00	12.00	1.00

GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:UNIFORM TEXTURED, BLOCKY
 .03% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 OCCASIONAL DARKER GREEN PATCHES, WITH POSSIBLE RELIC TEXTURES,
 APHANITIC PORPHYRITIC ANDESITE

From: 37.65MT To: 37.80MT

5 % OF THIS SUBINTERVAL IS
 VEIN MEDIUM, WHITE
 STRUCTURE:QUARTZ VEIN DIPPING 55
 .03% CARBONATE AS VEINS
 5% QUARTZ AS VEINS
 10% CHLORITE AS MICROVEINS
 ??? FELDSPAR AS ENVELOPES
 1CM QTZ (+ CARB) VEIN WITH PALE TAN-GREEN ALTERATION ENVELOPE
 THAT INCLUDES 3-4 1MM QTZ MICROVEINS

From: 39.80MT To: 41.05MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED

AUTOVALU

*A001 Samp From To Intrvl: PPM_CU PPM_ZN PPM_Pb PPM_NI PPM_AG PPM_AU PPM_AS PPM_Hg PPM_SB

--continue--

TEXTURE:UNIFORM TEXTURED, BLOCKY
 .03% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS

MOST PIECES ARE LARGER THAN 2 CM

From: 41.32MT To: 41.40MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED

TEXTURE:CRACKLED, BLOCKY
 STRUCTURE:QUARTZ MICROVEIN DIPPING 30
 .03% CARBONATE AS MICROVEINS
 2.5% QUARTZ AS MICROVEINS
 2.5% PYRITE AS MICROVEINS
 40% CHLORITE AS MICROVEINS

SMALL AREA OF MORE INTENSE BLACK CHLORITE-QTZ FRACTURE FILLINGS

From: 43.80MT To: 45.00MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED

TEXTURE:UNIFORM TEXTURED, BLOCKY
 .03% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS

SLICKENSIDED FRACTURES

From: 45.00MT To: 60.00MT
 CORE REC: 100% RQD: 5.0MT

*A001	15714	45.0	48.0	3.0	:	34.00	36.00	6.00	37.0	:.10	:.01	1.00	23.00	1.00
*A001	15715	48.0	51.0	3.0	:	93.00	45.00	6.00	42.0	:.10	:.01	1.00	16.00	1.00
*A001	15716	51.0	54.0	3.0	:	56.00	48.00	6.00	35.0	:.10	:.01	1.00	12.00	1.00
*A001	15717	54.0	57.0	3.0	:	46.00	47.00	4.00	37.0	:.10	:.01	1.00	16.00	1.00
*A001	15718	57.0	60.0	3.0	:	60.00	43.00	8.00	44.0	:.10	:.03	4.00	12.00	1.00

GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:UNIFORM TEXTURED, BLOCKY
 .1% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 2.5% CHLORITE AS MICROVEINS

From: 45.00MT To: 47.24MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED

AUTOVALU

*A001 Samp

From To

Intrvl:

PPM CU

PPM ZN

PPM PB

PPM NI

PPM AG

PPM AU

PPM AS

PPB HG

PPM SB

--continue--

TEXTURE:UNIFORM TEXTURED, BLOCKY
 .03% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS

From: 51.00MT To: 51.10MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:UNIFORM TEXTURED, BLOCKY
 STRUCTURE:QUARTZ VEIN DIPPING 70
 .03% CARBONATE AS MICROVEINS
 5% QUARTZ AS VEINS
 .1% PYRITE AS VEINS
 10% CHLORITE AS VEINS

From: 54.60MT To: 54.65MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE
 EXTREMELY FINE GRAINED
 TEXTURE:BRECCIATED, BLOCKY
 STRUCTURE:QUARTZ VEIN DIPPING 60
 10% CARBONATE AS VEINS
 10% QUARTZ AS VEINS
 .1% PYRITE AS SELVAGES

BIFURCATING, WHITE VEIN WITH ANGULAR GSTN BRECCIA FRAGMENTS

From: 56.20MT To: 56.30MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:UNIFORM TEXTURED, BLOCKY
 STRUCTURE:QUARTZ VEIN DIPPING 70
 .03% CARBONATE AS MICROVEINS
 30% QUARTZ AS VEINS
 5% CHLORITE AS SELVAGES

IRREGULAR, MILKY WHITE

From: 60.00MT To: 76.50MT

CORE REC: 98% RQD: 4.8MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED

TEXTURE:UNIFORM TEXTURED, BLOCKY
 .03% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .03% PYRITE AS MICROVEINS
 2.5% CHLORITE AS MICROVEINS

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

AT A GLANCE APPEARS TO BE MORE BROKEN THAN HIGHER UP THE HOLE
JUST MORE STEEP FRACTURES]
SLICKENSIDE COMMON ON FRACTURES THROUGHOUT THIS INTERVAL
NO OBVIOUS FOCUS OF A STRUCTURE THRU HERE

From: 62.90MT To: 62.90MT

100 % OF THIS SUBINTERVAL IS

GREENSTONE
EXTREMELY FINE GRAINED
TEXTURE:UNIFORM TEXTURED, BLOCKY
STRUCTURE:QUARTZ MICROVEIN DIPPING 30
.03% CARBONATE AS MICROVEINS
100% QUARTZ AS MICROVEINS

From: 63.20MT To: 63.21MT

100 % OF THIS SUBINTERVAL IS

GREENSTONE MEDIUM, GREEN
EXTREMELY FINE GRAINED
TEXTURE:UNIFORM TEXTURED, BLOCKY
STRUCTURE:QUARTZ VEIN DIPPING 40
.03% CARBONATE AS MICROVEINS
60% QUARTZ AS VEINS
30% CHLORITE AS VEINS

From: 64.50MT To: 64.60MT

100 % OF THIS SUBINTERVAL IS

GREENSTONE MEDIUM, GREEN
EXTREMELY FINE GRAINED
TEXTURE:UNIFORM TEXTURED, BLOCKY
STRUCTURE:QUARTZ VEIN DIPPING 80
.03% CARBONATE AS MICROVEINS
10% QUARTZ AS VEINS
10% CHLORITE AS VEINS

AS PREVIOUS VEIN, BOTH DARK GREY BLACK, IRREG WISPY TEXTURE

65.90 to 65.90
QUARTZ ONLY VEINS ARE MILKY WHITE

70.45 to 70.45
QTZ MICROVEIN WITH V. WEAK AND NARROW ALTERATION ENVELOPE
CONTAINS ABUNDANT PYRITE

72.80 to 72.80
QTZ-CHLORITE MICROVEIN WITH PYRITE. CHLORITE SLICKENSIDED

End of Hole

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 21 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT21

Total Depth of Hole: 30.48 MT

True Collar Azm of Hole: 150.00 collar Dip: -60.00

Northing: -1270.00 Easting: -1800.00 Collar elev: 0.0 MT

Survey: 0.00 to 30.48 True Azm of Hole: 150.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM_CU PPM_ZN PPM_Pb PPM_NI PPM_AG PPM_AU PPM_AS PPB_Hg PPM_SB

TARGET IS A STRONG VLF CONDUCTOR; MAGNETICS ARE UNREMARKABLE

From: 0.00MT To: 6.10MT

OVERBURDEN
NONE RECOVERED

From: 6.10MT To: 12.04MT
CORE REC: 98% RQD: 1.8MT

*A001 15725 6.1 9.1 3.0 : 58.00 39.00 3.00 57.0 .10 .01 1.00 20.00 1.00
*A001 15726 8.1 12.0 2.9 : 53.00 55.00 3.00 58.0 .10 .01 1.00 12.00 1.00

GREENSTONE MEDIUM, GREEN
TEXTURE:BLOCKY, BRECCIATED
NON-MAGNETIC

From: 9.60MT To: 9.95MT
CORE REC: 100% RQD: .0MT
100 % OF THIS SUBINTERVAL IS

GREENSTONE LIGHT, GREENISH TAN
TEXTURE:BLOCKY, BRECCIATED
STRUCTURE:QUARTZ VEIN DIPPING 88
.07% CARBONATE AS ENVELOPES
2.5% SIDERITE AS SELVAGES
5% QUARTZ AS VEINS
10% SILICIFICATION AS BRECCIA FILLINGS
1% PYRITE AS ENVELOPES

??% MALACHITE AS SELVAGES
2.5% CHLORITE AS MICROVEINS
CHALCEDONIC, BANDED QUARTZ VEIN WITH ATTENDANT CARBONATE ALTER.
IN AND OUT OF VEIN. SULFIDES ALONG VEIN MARGIN AND IN ADJ. FRACT

From: 10.40MT To: 10.48MT

100 % OF THIS SUBINTERVAL IS

GREENSTONE LIGHT, GREENISH TAN
TEXTURE:BLOCKY, BRECCIATED
STRUCTURE:QUARTZ MICROVEIN DIPPING 60
.07% CARBONATE AS ENVELOPES
.3% SIDERITE AS MICROVEINS
2.5% QUARTZ AS MICROVEINS
.01% PYRITE AS MICROVEINS
2.5% CHLORITE AS MICROVEINS

From: 10.56MT To: 10.80MT

100 % OF THIS SUBINTERVAL IS
GREENSTONE MEDIUM, TANISH GREEN
TEXTURE:BLOCKY, BRECCIATED

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*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

.07% CARBONATE AS PERVASIVE
 .1% SIDERITE AS MICROVEINS
 2.5% CHLORITE AS MICROVEINS
 NO QUARTZ VEIN, BUT ARE WITHIN THE ENVELOPE OF ONE

From: 11.56MT To: 11.69MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY, BRECCIATED
 STRUCTURE:VEIN DIPPING 90
 2.5% CARBONATE AS VEINS
 ??% QUARTZ AS VEINS
 20% CHLORITE AS VEINS
 EDGE OF AN IRREG DARK CHLORITE-CARB-QTZ VEIN ?

From: 11.69MT To: 11.94MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE LIGHT, GREENISH TAN
 TEXTURE:BLOCKY, BRECCIATED
 STRUCTURE:QUARTZ VEIN DIPPING 55
 .07% CARBONATE AS ENVELOPES
 2.5% SIDERITE AS SELVAGES
 5% QUARTZ AS VEINS
 .01% PYRITE AS SELVAGES
 2.5% CHLORITE AS MICROVEINS
 ??% FELDSPAR AS ENVELOPES
 BRECCIATED, BANDED CHALCEDONIC QUARTZ VEIN

From: 12.04MT To: 12.17MT

ARGILLITE, BLACK
 STRUCTURE:CONTACT DIPPING 40
 ??% SILICIFICATION AS PERVASIVE
 5% PYRITE AS MICROVEINS
 ??% EPIDOTE AS MICROVEINS
 ??% FELDSPAR AS MICROVEINS
 NON-MAGNETIC; HARDNESS>6

*A001 15727 12.0 15.0 3.0 : 43.00 40.00 4.00 57.0 .10 .01 2.00 12.00 1.00

From: 12.17MT To: 18.80MT
 CORE REC: 92% R0D: 1.2MT

GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY, MOTTLED
 .01% CARBONATE AS MICROVEINS
 .01% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS

*A001 15728 15.0 17.0 1.9 : 70.00 47.00 4.00 53.0 .10 .01 2.00 8.00 1.00
 *A001 15729 17.0 18.8 1.8 : 49.00 47.00 5.00 62.0 .10 .01 4.00 8.00 1.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

From: 12.17MT To: 12.65MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY, MOTTLED, CRACKLED
 .01% CARBONATE AS MICROVEINS
 .01% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 2.5% CHLORITE AS MICROVEINS

From: 15.24MT To: 16.15MT

CORE REC: 40%
 100 % OF THIS SUBINTERVAL IS
 GREENSTONE
 TEXTURE:BLOCKY, MOTTLED
 .01% CARBONATE AS MICROVEINS
 .01% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 CORE THAT WAS DROPPED AND REDRILLED ?

From: 17.00MT To: 18.80MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY, MOTTLED, CRACKLED
 .01% CARBONATE AS MICROVEINS
 .01% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 10% CHLORITE AS MICROVEINS
 WISPY BLACK, FRACTURE-BRECCIA FILLINGS OF CHLORITE

From: 18.80MT To: 19.05MT

*A001 15730 18.8 21.8 3.0 : 53.00 52.00 5.00 53.0 .10 .01 5.00 12.00 1.00
 ARGILLITE, BLACK
 STRUCTURE:CONTACT DIPPING 65
 1% CARBONATE AS MICROVEINS
 .07% QUARTZ AS PATCHES
 .03% PYRITE AS MICROVEINS
 .03% LIMONITE AS MICROVEINS
 UPPER CONTACT IRREGULAR WITH SLABS OF ARGL CAUGHT UP IN GSTN
 LOWER CONTACT SHARP AND MEASURABLE. VARIABLE HARDNESS DUE TO SI.

From: 19.05MT To: 22.81MT

*A001 15731 21.8 24.8 3.0 : 63.00 57.00 3.00 54.0 .10 .01 1.00 2.50 1.00
 GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY
 From: 19.05MT To: 21.70MT

*A001 Samp From To Intrvl: PPM_CU PPM_ZN PPM_PB PPM_NI PPM_AG PPM_AU PPM_AS PPB_HG PPM_SB

--continue--

CORE REC: 100%
 100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY
 .01% CARBONATE AS MICROVEINS
 .01% QUARTZ AS MICROVEINS
 10% CHLORITE AS MICROVEINS

From: 21.70MT To: 22.65MT
 CORE REC: 50% RQD: .0MT
 100 % OF THIS SUBINTERVAL IS
 FAULT MEDIUM, GREEN

From: 22.65MT To: 22.81MT
 100 % OF THIS SUBINTERVAL IS
 GREENSTONE
 TEXTURE:BLOCKY
 2% CARBONATE AS PERVASIVE

From: 22.81MT To: 30.48MT
 CORE REC: 100% RQD: 1.0MT

*A001 15732	24.8	27.8	3.0	56.00	54.00	3.00	56.0	.10	.01	1.00	12.00	1.00
*A001 15733	27.8	30.4	2.6	54.00	40.00	2.00	59.0	.10	.01	2.00	2.50	1.00

GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY, UNIFORM TEXT, MASSIVE
 .01% CARBONATE AS MICROVEINS
 0% QUARTZ AS FRESH ROCK
 1% CHLORITE AS MICROVEINS
 A LOT MORE UNIFORM MORE MASSIVE UNIT.
 OCCASIONAL SHORT INTERVAL WITH CONCENTRATION OF CHLORITE FILLED
 MICROFRACTURES

From: 26.30MT To: 27.00MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 TEXTURE:BLOCKY, UNIFORM TEXT, MASSIVE
 .03% CARBONATE AS MICROVEINS
 0% QUARTZ AS FRESH ROCK
 .03% PYRITE AS MICROVEINS
 20% CHLORITE AS MICROVEINS

End of Hole

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PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 22 ****

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Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT23

Total Depth of Hole: 60.35 MT

True Collar Azm of Hole: 156.00 Collar Dip: -70.00

Northing: -815.00 Easting: -1600.00 Collar elev: 0.0 MT

Survey: 0.00 to 60.35 True Azm of Hole: 156.00 Dip: -70.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM..SB

BROAD, MULTIPLE PEAK VLF FEATURE ON THE SE FLANK OF A MAG HIGH

From: 0.00MT To: 29.70MT

OVERBURDEN
RECOVERED PEBBLE AND SMALL BOULDER GRAVEL
BELOW 23.5 M SOME FINES PREDOMINANTLY CLAY AND SILT

From: 29.70MT To: 30.00MT
CORE REC: 87% RQD: .7MT

*A001 15734 29.7 31.3 1.6 : 68.00 48.00 8.00 35.0 .10 .03 1.00 2.50 1.00

ARGILLITE, BLACK
TEXTURE:BLOCKY
CONTACTS IMPOSSIBLE TO SEE COKE TOO BROKEN
CHARACTERISTICALLY BLACK WITH LIMONITE ON FRACTURES

From: 30.00MT To: 31.15MT
CORE REC: 87% RQD: .7MT

CHERT DARK, GRAY
TEXTURE:BLOCKY, CRACKLED, MOTTLED
.03% CARBONATE AS MICROVEINS

From: 31.15MT To: 31.30MT
CORE REC: 95% RQD: .5MT

ARGILLITE, BLACK

From: 31.30MT To: 35.05MT
CORE REC: 40% RQD: .0MT

*A001 15735 31.3 35.0 3.7 : 42.00 47.00 7.00 55.0 .10 .01 1.00 12.00 1.00

GREENSTONE LIGHT, GRAYISH GREEN
TEXTURE:BLOCKY, UNIFORM TEXT
.01% CARBONATE AS MICROVEINS

From: 35.05MT To: 36.65MT
CORE REC: 15% RQD: .5MT

*A001 15736 35.0 36.6 1.6 : 50.00 51.00 9.00 90.0 .10 .01 1.00 2.50 1.00

FAULTED OCCURS
ARGILLITE, BLACK
TEXTURE:BLOCKY

From: 36.65MT To: 42.06MT
CORE REC: 35% RQD: .5MT

*A001 15737 36.6 42.0 5.4 : 56.00 51.00 8.00 148.0 .10 .01 1.00 8.00 2.00

CS: MUMVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

FAULTED OCCURS
DYKE V. DARK, GRAY, WITH PLAGICLASE
EXTREMELY FINE GRAINED
TEXTURE:POPHYRITIC, BLOCKY
.07% MUSCOVITE AS PERVASIVE
40% CHLORITE AS GOUGE
SERICITE ALTERATION OF PLAG PHENOCRYSTS, NON-MAGNETIC
DYKE MATERIAL CAUGHT UP IN FAULT; GOUGE COMMON, SHEARED
RECOVERY SO POOR ONLY ENOUGH MATERIAL FOR ONE SAMPLE

From: 42.06MT To: 42.67MT
CORE REC: 48% RGD: .8MT

*A001 15738 42.0 42.6 .6 : 58.00 24.00 12.00 47.0 .10 .01 1.00 2.50 1.00

ARGILLITE, BLACK
2.5% CARBONATE AS PERVAS.=VEINS
1% AS DISSEMINATIONS

From: 42.67MT To: 60.35MT
CORE REC: 38% RGD: .8MT

*A001	15739	42.6	45.5	2.8	:	25.00	44.00	6.00	69.0	.10	.01	1.00	8.00	1.00
*A001	15740	45.5	48.5	3.0	:	42.00	48.00	7.00	53.0	.10	.01	2.00	20.00	1.00
*A001	15741	48.5	51.5	3.0	:	29.00	50.00	5.00	31.0	.10	.01	1.00	16.00	1.00
*A001	15742	51.5	54.5	3.0	:	49.00	36.00	5.00	42.0	.10	.01	1.00	12.00	1.00
*A001	15743	54.5	57.5	3.0	:	---	---	---	---	---	---	---	---	---
*A001	15744	57.5	60.3	2.8	:	06.00	50.00	8.00	60.0	.10	.01	6.00	2.50	1.00

GREENSTONE LIGHT, GRAYISH GREEN
TEXTURE:BLOCKY, UNIFORM TEXT
1% CARBONATE AS MICROVEINS
.1% CHLORITE AS MICROVEINS
.03% CLAY AS MICROVEINS
CHEWED UP TO PEBBLE-SIZED FRAGMENTS
VERY UNIFORM TEXTURE, PROBABLY A FLOW; NON-MAGNETIC
NO DISCRETE VEINS, JUST FRACTURE COATINGS

End of Hole

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 23 ****

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Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT23

Total depth of Hole: 81.99 MT

True Collar Azm of Hole: 335.00 Collar Dip: -65.00

Northing: -760.00 Easting: -1800.00 Collar elev: 0.0 MT

Survey:
 0.00 to 81.99 True Azm of Hole: 335.00 Dip: -65.00
 *A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TARGEJ A MAGNETIC LOW IN WEAK, BROAD, RAGGED MAGNETIC HIGH

From: 0.00MT To: 31.60MT

OVERBURDEN
 NO RECOVERY TO 8.53 M
 BOULDERS AND PEBBLES WITH A CLAY MATRIX TO 15.24 M; TILL ?
 BOULDERS, COBBLES AND ROUNDED PEBBLES WITH SAND-GRIT MATRIX TO
 31.6 M; CLASTS OF MIXED LITHOLOGY.

From: 31.60MT To: 35.30MT
CORE REC: 100% ROD: 1.0MT

*A001	15745	31.6	34.6	3.0	:	49.00	50.00	6.00	74.0	.10	.01	1.00	12.00	1.00
*A001	15746	34.6	37.6	3.0	:	61.00	49.00	5.00	60.0	.10	.01	1.00	12.00	1.00

GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY

31.60 to 37.90

MUD WASHED INTO SPACES AND FRACTURES IN BROKEN BEDROCK

From: 35.30MT To: 38.60MT
CORE REC: 98% ROD: .8MT

*A001	15747	37.6	40.2	2.6	:	63.00	50.00	6.00	55.0	.10	.01	1.00	2.50	1.00
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GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY

From: 38.60MT To: 40.20MT
CORE REC: 100% ROD: .0MT

BASALT, BLACK
 EXTREMELY FINE GRAINED
 TEXTURE:PORPHYRITIC, BLOCKY
 1% SIDERITE AS MICROVEINS
 .03% LIMONITE AS MICROVEINS
 APHANITIC, POSSIBLY FINELY PORPHYRITIC, NON-MAGNETIC, BLACK
 BASALT THAT HAS BEEN 70% ALTERED TO GREENSTONE
 PHENOCRYSTS ALTERED TO SIDERITE AND OXIDIZED TO LIMONITE ?
 GREENSTONE ALTERATION HAS A SHARP CONTACT WITH FRESH EASALT

From: 38.60MT To: 40.20MT

70 % OF THIS SUBINTERVAL IS
GREENSTONE MEDIUM, GREEN

From: 40.20MT To: 43.20MT

*A001 Samp From To Intrvl: PPM_CU PPM_ZN PPM_Pb PPM_NI PPM_AG PPM_AU PPM_AS PPB_Hg PPM_SB

--continue--

CORE REC: 90% RQD: .0MT *A001 15748 40.2 43.2 3.0 : 45.00 59.00 10.00 71.0 .10 .01 1.00 16.00 4.00

BRECCIA LIGHT, ORANGEISH BROWN
 FINE GRAINED, POORLY SORTED, ANGULAR, COMPACT, closed
 TEXTURE: CRACKLED, BRECCIATED, BLOCKY
 90% SIDERITE AS PERVASIVE
 5% QUARTZ AS BRECCIA FILLINGS
 1% SILICIFICATION AS PERVASIVE
 .3% MAGNANESE AS MICROVEINS
 .07% LIMONITE AS PERVASIVE
 OCCASIONAL REMANENTS OF BOTH BASALT AND GREENSTONE, FAULT BRXX
 SOME SLICKENSIDES EVIDENT, ROCK THOROUGHLY OXIDIZED
 APPEARS TO BE POSSIBLY 3 GENERATIONS OF HYDROTHERMAL ACTIVITY
 OLDEST - GREY SILICA FLOODING OF BRECCIA FRAGMENTS
 NEXT - BANDED SIDERITE AND MILKY QUARTZ; SIDERITE REPLACES
 CLASTS, COCKSCOMB QTZ RIMS CLASTS FILLING IN OPEN SPACES ALONG
 WITH BANDS OF SIDERITE. THIS IS THE PREDOMINANT EVENT
 YOUNGEST - CROSS CUTTING CLEAR MICROVEINS OF QUARTZ

From: 40.20MT To: 40.54MT

100 % OF THIS SUBINTERVAL IS
 BRECCIA LIGHT, ORANGEISH BROWN
 FINE GRAINED, POORLY SORTED, ANGULAR, COMPACT, closed
 TEXTURE: CRACKLED, BRECCIATED, BLOCKY
 90% SIDERITE AS PERVASIVE
 5% QUARTZ AS BRECCIA FILLINGS
 1% SILICIFICATION AS PERVASIVE
 .3% MAGNANESE AS MICROVEINS
 .07% LIMONITE AS PERVASIVE

From: 42.44MT To: 43.28MT

100 % OF THIS SUBINTERVAL IS
 BRECCIA LIGHT, ORANGEISH BROWN
 FINE GRAINED, POORLY SORTED, ANGULAR, COMPACT, closed
 TEXTURE: CRACKLED, BRECCIATED, BLOCKY
 90% SIDERITE AS PERVASIVE
 5% QUARTZ AS BRECCIA FILLINGS
 1% SILICIFICATION AS PERVASIVE
 .3% MAGNANESE AS MICROVEINS
 .07% LIMONITE AS PERVASIVE

From: 43.28MT To: 46.33MT
 CORE REC: 100% RQD: .0MT

*A001 15749 43.2 46.3 3.0 : 52.00 51.00 7.00 64.0 .10 .01 1.00 2.50 1.00
 GREENSTONE LIGHT, GREEN
 FINE GRAINED, EXTREMELY POORLY SORTED, EXTREMELY ANGULAR, COMPACT, closed
 TEXTURE: CRACKLED, BRECCIATED, BLOCKY
 2.5% SIDERITE AS PERVAS. < VEINS
 1% CHLORITE AS BRECCIA FILLINGS
 .1% LIMONITE AS MICROVEINS

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

OCCASIONAL BASALT REMANENT
SHORT (10 CM) INTERVALS OF WEAK TO MOD. PERVASIVE SIDERITE ALTER

From: 46.33MT To: 48.00MT
CORE REC: 100% RQD: .0MT

*A001 15750 46.3 48.0 1.6 : 55.00 64.00 4.00 68.0 .10 .04 1.00 2.50 1.00

GREENSTONE LIGHT, GREEN
TEXTURE:UNIFORM TEXTURED, BLOCKY
.3% CARBONATE AS MICROVEINS
50% SIDERITE AS PERVASIVE
.07% LIMONITE AS PERVASIVE

From: 47.70MT To: 47.90MT

100 % OF THIS SUBINTERVAL IS
GREENSTONE MEDIUM, ORANGEISH BROWN
TEXTURE:BRECCIATED, BLOCKY
.3% CARBONATE AS MICROVEINS
80% SIDERITE AS PERVASIVE
.07% LIMONITE AS PERVASIVE

From: 48.00MT To: 50.29MT
CORE REC: 100% RQD: .0MT

*A001 15751 48.0 50.2 2.2 : 47.00 49.00 46.00 59.0 .10 .01 1.00 2.50 1.00

GREENSTONE MEDIUM, GREEN
EXTREMELY FINE GRAINED
TEXTURE:UNIFORM TEXTURED, BLOCKY
.1% CARBONATE AS MICROVEINS
.3% SIDERITE AS PATCHES
.1% LIMONITE AS MICROVEINS

From: 50.29MT To: 51.81MT
CORE REC: 100% RQD: .0MT

*A001 15752 50.2 52.5 2.2 : 56.00 66.00 88.00 51.0 .10 .01 1.00 12.00 3.00

GREENSTONE LIGHT, ORANGEISH BROWN
2.5% CARBONATE AS MICROVEINS
90% SIDERITE AS PERVASIVE
.07% LIMONITE AS PERVASIVE

From: 51.50MT To: 51.81MT
CORE REC: 100% RQD: .0MT

100 % OF THIS SUBINTERVAL IS
GREENSTONE PALE, REDISH TAN
STRUCTURE:QUARTZ MICROVEIN DIPPING 70
2.5% CARBONATE AS SELVAGES
.07% SIDERITE AS PERVASIVE
5% QUARTZ AS MICROVEINS
2.5% PYRITE AS MICROVEINS
??% MARIPOSITE AS ENVELOPES
??% FELDSPAR AS PERVASIVE

AUTOVALU

--continue--

*A001 Samp From To Intrvl: PPM_CU PPM_ZN PPM_Pb PPM_NI PPM_AG PPM_AU PPM_AS PPB_Hg PPM_Sb

.07% LIMONITE AS PERVASIVE
 PINK OR FLESH COLORED SOFT ALTERATION ASSOCIATED WITH QUARTZ-
 CARBONATE-PYRITE VEINLET. PYRITE ALSO ON FRACTURES
 FAIRLY BRIGHT GREEN SOFT MINERAL AS DISSEMINATED GRAINS AROUND
 VEIN; 1% ABUNDANCE. MIGHT ONLY BE MUSCOUVITE AFTER FELDSPARS

From: 51.81MT To: 54.90MT
 CORE REC: 100% RGD: .0MT

*A001 15753 52.5 54.9 2.3 : 55.00 42.00 46.00 46.0 .10 .01 1.00 8.00 1.00

GREENSTONE MEDIUM, GREEN
 FINE GRAINED
 TEXTURE: UNIFORM TEXTURED, BLOCKY
 2.5% CARBONATE AS PERVAS. VEINS
 .03% LIMONITE AS MICROVEINS
 ENVELOPES OF BLEACHING - PERVASIVE CARBONATE ALTERATION AROUND
 CARBONATE VEINLETS UP TO SEVERAL CM WIDE

From: 52.42MT To: 52.55MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, ORANGEISH BROWN
 FINE GRAINED
 TEXTURE: UNIFORM TEXTURED, BLOCKY
 2.5% CARBONATE AS PERVAS. VEINS
 90% SIDERITE AS PERVASIVE
 .07% LIMONITE AS PERVASIVE

From: 54.90MT To: 57.90MT
 CORE REC: 100% RGD: .0MT

*A001 15754 54.9 57.9 3.0 : 50.00 57.00 6.00 57.0 .10 .01 1.00 2.50 1.00

VEIN, WITH SIDERITE, QUARTZ
 TEXTURE: BRECCIATED, BANDED, VUGGY
 STRUCTURE: VEIN DIPPING 85
 20% CARBONATE AS ENVELOPES
 60% SIDERITE AS VEINS
 10% QUARTZ AS VEINS
 .01% PYRITE AS MICROVEINS
 .03% MAGNANESE AS ENCRUSTATIONS
 ??? FELDSPAR AS ENVELOPES
 .07% LIMONITE AS PERVASIVE
 STEEP, BRECCIATED, BANDED & VUGGY QUARTZ-CARBONATE VEIN WITH
 AN ALTERATION ENVELOPE. OXIDIZED
 DRUSY QUARTZ ON WALLS OF VUGS
 QUARTZ IS DULL AND GREYISH-TAN COLOR MAY BE
 BANDING IN VEIN INDICATES REPEATED EPISODES
 BLEACHED SOFT PINKISH-TAN ALTERATION ENVELOPE
 HOST IS GREENSTONE NO SULFIDES IN MAIN VEIN, TRACE PYRITE IN
 ADJACENT MICROVEINS OF QUARTZ

From: 57.90MT To: 65.00MT

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
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CORE REC: 100X RQD: 3.0MT

*A001	15755	57.9	60.9	3.0	56.00	41.00	6.00	47.0	.10	.01	1.00	2.50	1.00
*A001	15756	60.9	63.9	3.0	58.00	40.00	5.00	40.0	.10	.01	1.00	2.50	1.00
*A001	15757	63.9	66.9	3.0	51.00	40.00	7.00	39.0	.10	.01	1.00	2.50	1.00

GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 .1% CARBONATE AS MICROVEINS
 .1% QUARTZ AS MICROVEINS
 .1% CHLORITE AS MICROVEINS
 .1% LIMONITE AS MICROVEINS

58.60 to 58.78

SECTION OF ORIGINAL ROCK, DK GREEN APHANITIC-PORPHORITIC
 ANDESITE. ALTERED (SOFT, WHITE) FELDSPAR PHENOS <1 MM

From: 58.78MT To: 59.02MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE LIGHT, TANISH WHITE
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 .07% CARBONATE AS PERVASIVE
 2.5% QUARTZ AS MICROVEINS
 ??% MUSCOVITE AS PATCHES
 .03% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 2% CLAY AS PERVASIVE
 20% SERPENTINE AS PATCHES
 .03% LIMONITE AS STAINIGS

From: 60.40MT To: 60.54MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE LIGHT, TANISH WHITE .
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 .07% CARBONATE AS PERVASIVE
 10% QUARTZ AS MICROVEINS
 10% SILICIFICATION AS PATCHES
 ??% MUSCOVITE AS PATCHES
 1% CHLORITE AS MICROVEINS
 ??% CLAY AS PERVASIVE
 ??% FELDSPAR AS PERVASIVE
 .03% LIMONITE AS STAINIGS

CHALCEDONIC, BANDED CREAMY QUARTZ VEINS
 ALTERATION ENVELOPE A BIT TOO HARD FOR JUST CARBONATE

From: 62.60MT To: 62.80MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, ORANGEISH BROWN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

.1% CARBONATE AS MICROVEINS
 90% SIDERITE AS PERVASIVE
 .1% QUARTZ AS MICROVEINS
 22% SILICIFICATION AS PERVASIVE
 2.5% MAGNANESE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 .07% LIMONITE AS PERVASIVE

From: 63.40MT To: 63.45MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, ORANGEISH BROWN

EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 .1% CARBONATE AS MICROVEINS
 30% SIDERITE AS PERVASIVE
 .1% QUARTZ AS MICROVEINS
 1% MAGNANESE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 .07% LIMONITE AS PERVASIVE

JUST CATCHING THE EDGE OF AN ALTERED AREA

From: 63.80MT To: 64.10MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE LIGHT, GREENISH GRAY

EXTREMELY FINE GRAINED
 TEXTURE:BRECCIATED, MICROVEINED
 10% CARBONATE AS ENVELOPES
 10% QUARTZ AS MICROVEINS
 5% CHLORITE AS BRECCIA FILLINGS
 .1% LIMONITE AS MICROVEINS

BANDED MILKY QUARTZ VEINS, CROSS-CUTTING

From: 65.00MT To: 70.00MT
 CORE REC: 100% RQD: 3.0MT

*A001	15758	66.9	69.9	3.0	64.00	35.00	3.00	41.0	:10	:01	1.00	2.50	1.00
*A001	15759	69.9	72.9	3.0	55.00	55.00	5.00	48.0	:10	:01	1.00	35.00	1.00

GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 .3% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 .1% LIMONITE AS MICROVEINS

From: 70.00MT To: 75.00MT
 CORE REC: 100% RQD: 1.0MT

*A001	15760	72.9	75.9	3.0	56.00	51.00	7.00	53.0	.10	.01	1.00	2.50	3.00
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GREENSTONE MEDIUM, GREEN

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB H6 PPM SB

--continue--

EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 .3% CARBONATE AS MICROVEINS
 .3% QUARTZ AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 .1% LIMONITE AS MICROVEINS

From: 70.71MT To: 71.12MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE LIGHT, TAN
 EXTREMELY FINE GRAINED
 TEXTURE:CRACKLED, UNIFORM TEXT
 STRUCTURE:QUARTZ VEIN DIPPING 75
 80% CARBONATE AS ENVELOPES
 5% QUARTZ AS VEINS
 .03% MUSCOVITE AS SPOTS
 .03% PYRITE AS MICROVEINS
 2.5% MAGNANESE AS MICROVEINS
 1% CHLORITE AS MICROVEINS

.03% LIMONITE AS STAINIGS
 BANDED QUARTZ VEIN AND SEVERAL MICROVEINS WITH A CARBONATE ALTER
 ATION ENVELOPE (FLESH TONE).

From: 71.43MT To: 71.65MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE LIGHT, GREENISH TAN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 40% CARBONATE AS PERSVASIVE
 .1% QUARTZ AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 .07% LIMONITE AS PERSVASIVE
 MUST BE NEAR A VEIN

From: 74.00MT To: 74.12MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 STRUCTURE:QUARTZ VEIN DIPPING 75
 30% CARBONATE AS ENVELOPES
 5% SIDERITE AS MICROVEINS
 5% QUARTZ AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 1% LIMONITE AS PERSVASIVE

BANDED QIZ-SIDERITE VEINLET WITH WEAK-MOD. CARBONATE ENVELOPE
 5CM WIDE EACH SIDE OF VEIN

From: 75.00MT To: 81.99MT

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*A001	Samp	From	To	Intrvl:	PPM_CU	PPM_ZN	PPM_PB	PPM_NI	PPM_AG	PPM_AU	PPM_AS	PPB_H6	PPM_SB
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CORE REC: 100% RQD: 3.0MT

*A001	15761	75.9	78.9	3.0	56.00	46.00	7.00	43.0	:10	:01	1.00	2.50	1.00
*A001	15762	78.9	81.9	3.0	84.00	41.00	4.00	38.0	:10	:01	1.00	2.50	2.00

GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:BLOCKY, UNIFORM TEXT
 .1% CARBONATE AS MICROVEINS
 .03% QUARTZ AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 .1% LIMONITE AS MICROVEINS

From: 75.00MT To: 75.18MT

100 % OF THIS SUBINTERVAL IS
 GREENSTONE MEDIUM, GREEN
 EXTREMELY FINE GRAINED
 TEXTURE:CRACKLED, UNIFORM TEXT
 STRUCTURE:QUARTZ VEIN DIPPING 55
 30% CARBONATE AS ENVELOPES
 30% QUARTZ AS VEINS
 2.5% MAGNANESE AS MICROVEINS
 1% CHLORITE AS MICROVEINS
 .03% LIMONITE AS STAINIGS

CREAMY QUARTZ VEIN 3CM WIDE, WITH 5-7 CM CARBONATE ENVELOPE

77.40 to 78.00

RELICT TEXTURES; APHANITIC PORPHYRITIC, DK GREEN ANDESITE (FLOW)

End of Hole

ADJUVALS

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 24 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT26

Total Depth of Hole: 80.46 MT

True Collar Azm of Hole: 335.00 Collar Dip: -60.00

Northing: -1426.00 Easting: -1335.00 Collar elev: 0.0 MT

Survey: 0.00 to 80.46 True Azm of Hole: 335.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

DRILLING BETWEEN TWO SUBPARALLEL, STRONG VLF CONDUCTORS
MAGNETIC SIGNATURE IS UNREMARKABLE

From: 0.00MT To: 9.14MT

OVERBURDEN
EASY TRICONING. NONE RECOVERED

From: 9.14MT To: 12.19MT
CORE REC: 6% RQD: .6MT

*A001 15763 9.1 13.7 4.5 : 10.00 21.00 5.00 980.0 .10 .01 75.00 2.50 2.00

ALTERED ROCK PALE, GRAYISH WHITE
TEXTURE:MOTTLED
STRUCTURE:QUARTZ VEIN DIPPING 30
.07% SIDERITE AS PERVASIVE
.07% QUARTZ AS VEINS
.01% PYRITE AS VEINS
.07% TALC AS PERVASIVE
3.5-4 CM WIDE BANDED QUARTZ VEIN WITH BRECCIA FRAGMENTS OF HOST
ROCK SO ALTERED THAT ORIGINAL LITHOLOGY UNRECOGNIZED
HARDNESS= 2-3

From: 12.19MT To: 13.70MT
CORE REC: 80% RQD: .0MT

FAULT PALE, GRAYISH WHITE
EXTREMELY FINE GRAINED
20% SIDERITE AS PERVASIVE
60% CLAY AS GOUGE
20% TALC AS PERVASIVE

From: 13.70MT To: 20.93MT
CORE REC: 85% RQD: 2.5MT

*A001 15764 13.7 15.7 2.0 : 15.00 22.00 3.00 960.0 .10 .01 97.00 2.50 4.00
*A001 15765 15.7 18.7 3.0 : 8.00 18.00 3.00 900.0 .10 .01 83.00 2.50 1.00
*A001 15766 18.7 20.9 2.2 : 9.00 22.00 3.00 1010.0 .10 .01 25.00 2.50 1.00

ALTERED ROCK PALE, GRAYISH WHITE
TEXTURE:MOTTLED
40% SIDERITE AS PERVASIVE
.01% MAGNETITE AS FRESH ROCK
40% TALC AS PERVASIVE
ROCK TOTALLY ALTERED, 20% IS LIGHT GREY PATCHES OF LEAST ALTERED
MATERIAL. REST PALE GREEN AND WHITE. HARDNESS =2-3.
A TALC-CARBONATE ROCK. RARE RELICT MAGNETITE (ALTERED ULTRAMAFIC
)

From: 13.70MT To: 16.46MT

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

CORE REC: 65% RQD: .5MT
100 % OF THIS SUBINTERVAL IS
FAULT PALE, GRAYISH WHITE

From: 15.04MT To: 15.24MT

100 % OF THIS SUBINTERVAL IS
FAULT PALE, GRAYISH WHITE

10% SIDERITE AS PERVASIVE
70% CLAY AS GOUGE
10% TALC AS PERVASIVE

From: 20.93MT To: 29.25MT
CORE REC: 90% RQD: 1.0MT

*A001	15767	20.9	23.9	2.9	:	6.00	19.00	2.00	830.0	.10	.01	1.00	2.50	1.00
*A001	15768	23.9	25.7	1.8	:	4.00	14.00	4.00	780.0	.10	.01	9.00	2.50	1.00
*A001	15769	25.7	27.4	1.7	:	7.00	20.00	5.00	1280.0	.10	.01	2.00	2.50	1.00
*A001	15770	27.4	29.7	2.2	:	11.00	21.00	5.00	900.0	.10	.02	29.00	8.00	5.00

FAULT PALE, GRAYISH WHITE

30% SIDERITE AS PERVASIVE
40% CLAY AS GOUGE
30% TALC AS PERVASIVE
INTERVALS OF GOUGE ALTERNATING WITH MORE COMPETENT ROCK

From: 25.70MT To: 27.43MT

CORE REC: 100% RQD: .0MT
100 % OF THIS SUBINTERVAL IS
SERPENTINE LIGHT, WHITEISH GREEN

20% SIDERITE AS PERVASIVE
20% CLAY AS GOUGE
20% SERPENTINE AS PERVASIVE
30% TALC AS PERVASIVE

HARDNESS=3

From: 28.95MT To: 29.15MT

100 % OF THIS SUBINTERVAL IS
ULTRAMAFIC V.DARK, GREENISH BLACK, WITH MAGNETITE
SLICKENSIDED SURFACES

From: 29.25MT To: 34.95MT
CORE REC: 95% RQD: 1.5MT

*A001	15771	29.7	32.7	3.0	:	64.00	96.00	10.00	50.0	.10	.01	1.00	2.50	1.00
*A001	15772	32.7	34.9	2.2	:	75.00	77.00	12.00	65.0	.10	.01	8.00	2.50	1.00

ALTERED ROCK PALE, GRAYISH WHITE
TEXTURE:BLOCKY

30% SIDERITE AS PERVASIVE
5% QUARTZ AS MICROVEINS
30% SILICIFICATION AS PATCHES
.01% MARIPOSITE AS ENVELOPES
.03% CLAY AS GOUGE

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

30% TALC AS PERVASIVE
 QUARTZ VEINING ACCOMPANIED BY SILICIFICATION
 QUARTZ OCCURS AS MILKY WHITE VEINLETS AND IRREGULAR PATCHES
 BROWNISH-BLACK 1-2 MM SPOTS AND CLOTS, MONOMINERALIC ? SCRATCH
 IS BROWN. WHAT IS IT ? MORE PREVALENT AROUND QUARTZ VEINLETS ?
 DISSEMINATED
 SOFT (H<3) WHERE NOT SILIC.; WHERE SILIC H=6

From: 34.95MT To: 50.20MT

*A001	Samp	From	To	Intrvl	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
*A001	15773	34.9	36.0	1.0	12.00	27.00	6.00	1230.0	.10	.04	67.00	16.00	2.00
*A001	15774	36.0	37.0	1.0	15.00	32.00	4.00	1220.0	.10	.04	03.00	2.50	2.00
*A001	15775	37.0	38.0	1.0	17.00	40.00	3.00	1110.0	.10	.07	24.00	2.50	8.00
*A001	15776	38.0	39.0	1.0	18.00	37.00	3.00	1260.0	.10	.02	56.00	12.00	10.00
*A001	15777	39.0	40.0	1.0	11.00	35.00	3.00	1160.0	.10	.02	48.00	8.00	8.00
*A001	15778	40.0	41.0	1.0	13.00	31.00	3.00	1430.0	.10	.03	07.00	20.00	5.00
*A001	15779	41.0	42.0	1.0	18.00	44.00	4.00	1550.0	.10	.03	28.00	2.50	7.00
*A001	15780	42.0	43.0	1.0	16.00	35.00	5.00	1260.0	.10	.05	39.00	16.00	5.00
*A001	15781	43.0	44.0	1.0	12.00	27.00	5.00	1290.0	.10	.04	93.00	20.00	3.00
*A001	15782	44.0	45.0	1.0	14.00	34.00	7.00	1360.0	.10	.05	76.00	8.00	6.00
*A001	15783	45.0	46.0	1.0	20.00	33.00	3.00	1180.0	.80	.10	25.00	16.00	14.00
*A001	15784	46.0	47.0	1.0	35.00	52.00	9.00	1120.0	2.40	.07	10.00	12.00	46.00
*A001	15785	47.0	48.0	1.0	18.00	41.00	9.00	740.0	1.10	.06	25.00	23.00	13.00
*A001	15786	48.0	49.0	1.0	11.00	26.00	4.00	1080.0	1.10	.03	50.00	2.50	2.00
*A001	15787	49.0	50.2	1.2	71.00	36.00	5.00	1030.0	1.00	.04	52.00	27.00	10.00

LISTWAENITE LIGHT, GRAY
 TEXTURE: STOCKWORKED
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 5% QUARTZ AS STOCKWORK
 20% SILICIFICATION AS PERVASIVE
 5% MARIPOSITE AS DISSEMINATIONS
 ??? TALC AS PERVASIVE
 LIGHT GREY WITH SPOTS OF BRIGHT GREEN, HARDNESS = 6 DUE TO
 INTENSE SILICIFICATION (DIFFICULT TO ASSIGN A VALUE).
 WELL DEVELOPED STOCKWORK OF MILKY WHITE QUARTZ VEINLETS,
 GENERALLY 1-3 MM WIDE VEINLETS; OCCASIONAL IRREG QTZ PATCHES
 BRIGHT GREEN MINERAL IS MARIPOSITE, OCCURS AS INDIVIDUAL DISSEM-
 INATED CRYSTALS 1-3 MM SIZE, OCCASIONAL CRYSTAL > 1 CM
 INTENSITY OF MARIPOSITE ALTERATION IS VARIABLE FROM 1-10%.
 DISSEMINATED BROWNISH-BLACK CLOTS AN UNKNOWN.
 DISSEMINATED EUHEDRAL (CUBIC) PYRITE, FINE GRAINED.
 NON-MAGNETIC

From: 34.95MT To: 37.64MT
 CORE REC: 100% RQD: 1.0MT
 100% OF THIS SUBINTERVAL IS

LISTWAENITE LIGHT, GRAY
 TEXTURE: STOCKWORKED
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 .3% QUARTZ AS STOCKWORK

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

20% SILICIFICATION AS PERVASIVE
 .01% PYRITE AS DISSEMINATIONS
 1% MARIPOSITE AS DISSEMINATIONS
 ??% TALC AS PERVASIVE

35.25 to 35.33
 MILKY WHITE PATCH LOOKS LIKE FELDSPAR ALTERATION

From: 37.30MT To: 37.50MT

100 % OF THIS SUBINTERVAL IS
 LISTWAENITE

TEXTURE: STOCKWORKED
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 5% QUARTZ AS STOCKWORK
 40% SILICIFICATION AS PERVASIVE

X MARIPOSITE AS
 ORANGISH-YELLOW STAIN ON FRACTURES AND EDGE OF VEINS D+
 SOME CLEAR QUARTZ MICROVEINS, A 2ND TYPE

From: 37.64MT To: 39.16MT

CORE REC: 100% RQD: .0MT
 100 % OF THIS SUBINTERVAL IS

LISTWAENITE LIGHT, GRAY
 TEXTURE: STOCKWORKED
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 5% QUARTZ AS STOCKWORK
 20% SILICIFICATION AS PERVASIVE
 .01% PYRITE AS DISSEMINATIONS
 5% MARIPOSITE AS DISSEMINATIONS

39.00 to 39.01
 CAN SEE GREY SILICA FLOODING ENVELOPING VEINLETS
 SLICKENSIDE ON FRACTURE

From: 39.16MT To: 40.10MT

CORE REC: 100% RQD: .0MT
 100 % OF THIS SUBINTERVAL IS

LISTWAENITE LIGHT, GRAY
 TEXTURE: STOCKWORKED
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 5% QUARTZ AS STOCKWORK
 20% SILICIFICATION AS PERVASIVE
 .01% PYRITE AS DISSEMINATIONS
 5% MARIPOSITE AS DISSEMINATIONS
 ??% TALC AS PERVASIVE

From: 40.10MT To: 43.30MT

CORE REC: 100% RQD: .0MT
 100 % OF THIS SUBINTERVAL IS

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

LISTWAENITE LIGHT, BROWNISH GRAY
 TEXTURE:FOLIATED, BRECCIATED, MOTTLED
 STRUCTURE:FOLIATION DIPPING 45
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 5% QUARTZ AS STOCKWORK
 20% SILICIFICATION AS PERVASIVE
 .1% PYRITE AS DISSEMINATIONS
 10% MARIPOSITE AS DISSEMINATIONS
 ??% TALC AS PERVASIVE
 FOLIATED IRREGULAR DARK BROWN PATCHES AND AS BRECCIA FILLINGS
 INTERVALS OF ANGULAR, GRANULE TO SMALL PEBBLE SIZED MILKY WHITE
 QUARTZ CLASTS. MARIPOSITE ALSO AS BRECCIA MATRIX
 STOCKWORKING OF QUARTZ MICROVEINS SUPERIMPOSED ON THIS EARLIER
 TEXTURE (PROBABLY A FAULT ZONE ?),
 MARIPOSITE REPLACING BROWN CLOTS

From: 43.30MT To: 46.54MT
 CORE REC: 100% RGD: 1.0MT
 100 % OF THIS SUBINTERVAL IS

LISTWAENITE LIGHT, GRAY
 TEXTURE:STOCKWORKED
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 5% QUARTZ AS STOCKWORK
 20% SILICIFICATION AS PERVASIVE
 .3% PYRITE AS DISSEMINATIONS
 5% MARIPOSITE AS DISSEMINATIONS
 ??% TALC AS PERVASIVE

From: 46.54MT To: 47.44MT
 CORE REC: 100% RGD: .0MT
 100 % OF THIS SUBINTERVAL IS

LISTWAENITE LIGHT, BROWNISH GRAY
 TEXTURE:FOLIATED, BRECCIATED
 STRUCTURE:FOLIATION DIPPING 45
 .01% CARBONATE AS MICROVEINS
 70% SIDERITE AS PERVASIVE
 .3% QUARTZ AS STOCKWORK
 20% SILICIFICATION AS PERVASIVE
 .01% PYRITE AS MICROVEINS
 10% MARIPOSITE AS DISSEMINATIONS
 ??% TALC AS PERVASIVE

47.40 to 47.44

SLICKENSIDE ON FRACTURES

From: 47.44MT To: 47.84MT
 CORE REC: 100% RGD: .0MT
 100 % OF THIS SUBINTERVAL IS

FAULT LIGHT, GRAY
 TEXTURE:BRECCIATED
 STRUCTURE:FRACTURE DIPPING 20
 2.5% SILICIFICATION AS PERVASIVE

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

90% CLAY AS GOUGE
??% TALC AS PERVASIVE
ANGULAR, WEAKLY SILICIFIED CLASTS WITH CLAY MATRIX. CLASTS=CLAY?
SLICKENSIDED, SOFT UNIT

From: 47.84MT To: 50.20MT
CORE REC: 100% RQD: .0MT
100% OF THIS SUBINTERVAL IS

LISTWAENITE LIGHT, GRAY
TEXTURE:FOLIATED, CRACKLED
STRUCTURE:FOLIATION DIPPING 80
.01% CARBONATE AS MICROVEINS
70% SIDERITE AS PERVASIVE
5% QUARTZ AS STOCKWORK
20% SILICIFICATION AS PERVASIVE
2.5% PYRITE AS DISSEMINATIONS
10% MARIPOSITE AS DISSEMINATIONS
1% CLAY AS MICROVEINS
??% TALC AS PERVASIVE
SLICKENSIDED FRACTURES

From: 50.20MT To: 50.60MT
CORE REC: 100% RQD: .0MT

*A001 15788 50.2 52.2 2.0 : 36.00 66.00 15.00 137.0 .10 .01 14.00 2.50 1.00

FAULT LIGHT, GRAY
STRUCTURE:FRACTURE DIPPING 15

From: 50.60MT To: 54.35MT
CORE REC: 95% RQD: 1.5MT

*A001 15789 52.2 54.3 2.1 : 39.00 71.00 19.00 132.0 .10 .01 7.00 8.00 1.00

DYKE DARK, GRAY, WITH BIOTITE
FINE GRAINED
TEXTURE:UNIFORM TEXTURED, POPHRITIC
1% QUARTZ AS MICROVEINS
.3% PYRITE AS MICROVEINS
1% CHLORITE AS MICROVEINS
FINE GRAINED, FINELY PORPHYRITIC WITH 0.5-2 CM SPOTS OF PALE
GREY-WHITE SPOTS OF QUARTZ (ORIGIN ?). UPPER CONTACT VERY FG FOR
15 CM, GRADUALLY COARSENING TO CRYSTALLINE - CHILL MARGIN
NON-MAGNETIC. QUARTZ SPOTS OVOID AND SHARP TO FUZZY EDGES

From: 50.60MT To: 50.65MT

100% OF THIS SUBINTERVAL IS
FAULT DARK, BLACKISH GREEN
STRUCTURE:FRACTURE DIPPING 30
SLICKENSIDES ON ALL FRACTURE SURFACES. FAULTED CONTACT

From: 52.90MT To: 54.35MT

100% OF THIS SUBINTERVAL IS

--continue--

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

DYKE DARK, GRAY, WITH BIOTITE
 FINE GRAINED
 TEXTURE:UNIFORM TEXTURED, POPHRITIC
 1% QUARTZ AS MICROVEINS
 .3% PYRITE AS MICROVEINS
 .03% MAGNANESE AS STAINIGS
 5% CHLORITE AS MICROVEINS
 ALL FRACTURES SLICKENSIDED

From: 54.35MT To: 75.30MT

*A001	15790	54.3	57.3	2.9	82.00	80.00	10.00	91.0	.10	.01	41.00	8.00	3.00
*A001	15791	57.3	60.3	3.0	15.00	29.00	3.00	1120.0	.10	.01	07.00	12.00	12.00
*A001	15792	60.3	63.3	3.0	64.00	84.00	6.00	50.0	.10	.01	3.00	8.00	7.00
*A001	15793	63.3	66.3	3.0	15.00	29.00	3.00	1070.0	.10	.01	00.00	2.50	13.00
*A001	15794	66.3	69.3	3.0	84.00	69.00	4.00	41.0	.10	.01	14.00	12.00	5.00
*A001	15795	69.3	72.3	3.0	72.00	66.00	9.00	40.0	.10	.01	16.00	20.00	4.00
*A001	15796	72.3	75.3	3.0	76.00	63.00	8.00	32.0	.10	.01	1.00	2.50	7.00

BRECCIA DARK, GRAYISH BLACK, WITH GRAPHITE
 , VERY POORLY SORTED, VERY ANGULAR, COMPACT, closed
 TEXTURE:BLOCKY
 .03% QUARTZ AS MICROVEINS
 2.5% PYRITE AS BRECCIA FILLINGS
 40% GRAPHITE AS BRECCIA FILLINGS
 SOME OF THE FOOTAGE BLOCKS APPEAR TO BE POORLY NUMBERED MAKING
 ESTIMATES OF RECOVERY ROUGH APPROXIMATIONS

54.35 to 61.17

CLASTS SOFT (H=3) AND APPEAR TO BE CARBONATE ALTERED

61.17 to 75.30

CLASTS HARD (H=6), APPEAR TO BE CHERT, PALE GREY APHANITIC
 ALL CLASTS ARE HIGHLY CRACKLED
 NON-MAGNETIC

From: 54.35MT To: 65.00MT

CORE REC: 62% RQD: .2MT

100 % OF THIS SUBINTERVAL IS

BRECCIA DARK, GRAYISH BLACK, WITH GRAPHITE
 , VERY POORLY SORTED, VERY ANGULAR, COMPACT, closed
 TEXTURE:BLOCKY

.03% QUARTZ AS MICROVEINS
 2.5% PYRITE AS BRECCIA FILLINGS
 40% GRAPHITE AS BRECCIA FILLINGS
 .1% CHLORITE AS MICROVEINS

ABUNDANT SLICKENSIDES

From: 61.58MT To: 61.60MT

100 % OF THIS SUBINTERVAL IS
 BRECCIA, WITH GRAPHITE
 TEXTURE:BLOCKY
 STRUCTURE:VEIN DIPPING 25

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

20% CARBONATE AS VEINS
80% QUARTZ AS VEINS
2.5% PYRITE AS BRECCIA FILLINGS
2 GRAPHITE AS

MILKY WHITE

From: 65.00MT To: 75.30MT
CORE REC: 100% RGD: 1.0MT

100 % OF THIS SUBINTERVAL IS
BRECCIA DARK, GRAYISH BLACK, WITH GRAPHITE
, VERY POORLY SORTED, VERY ANGULAR, COMPACT, closed
TEXTURE:BLOCKY

.1% SIDERITE AS MICROVEINS
2.5% PYRITE AS BRECCIA FILLINGS
40% GRAPHITE AS BRECCIA FILLINGS

From: 71.62MT To: 72.25MT

100 % OF THIS SUBINTERVAL IS
BRECCIA DARK, GRAYISH BLACK, WITH GRAPHITE
, VERY POORLY SORTED, VERY ANGULAR, COMPACT, closed
TEXTURE:BLOCKY

.03% QUARTZ AS MICROVEINS
2.5% PYRITE AS BRECCIA FILLINGS
70% GRAPHITE AS BRECCIA FILLINGS

From: 73.25MT To: 73.30MT

100 % OF THIS SUBINTERVAL IS
BRECCIA DARK, GRAYISH WHITE, WITH GRAPHITE
, VERY POORLY SORTED, VERY ANGULAR, COMPACT, closed
TEXTURE:BANDED, VUGGY

STRUCTURE:VEIN DIPPING 38
60% SIDERITE AS VEINS
.03% QUARTZ AS MICROVEINS
2.5% PYRITE AS BRECCIA FILLINGS
40% GRAPHITE AS BRECCIA FILLINGS

From: 75.30MT To: 79.10MT
CORE REC: 95% RGD: .5MT

*A001 15797	75.3	76.5	1.2	:	25.00	69.00	7.00	62.0	:	.10	.02	19.00	8.00	2.00
*A001 15798	76.5	79.1	2.6	:	38.00	65.00	7.00	52.0	:	.10	.01	19.00	12.00	6.00

DYKE LIGHT, LIMEISH GRAY, WITH FELDSPAR

EXTREMELY FINE GRAINED
TEXTURE:POPHRYITIC
.1% SIDERITE AS MICROVEINS
1% QUARTZ AS MICROVEINS
1% MUSCOVITE AS PERVASIVE
.01% PYRITE AS ENVELOPES
.01% MARIPOSITE AS ENVELOPES

From: 76.50MT To: 78.30MT

AUTOVALU

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM_PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM_SB

--continue--

100 % OF THIS SUBINTERVAL IS
 DYKE LIGHT, LIMEISH GRAY, WITH FELDSPAR
 EXTREMELY FINE GRAINED
 TEXTURE:POPRHYRITIC
 STRUCTURE:QUARTZ VEIN DIPPING 58, QUARTZ VEIN DIPPING 46
 ??% SIDERITE AS PERVASIVE
 10% QUARTZ AS VEINS
 1% MUSCOVITE AS PERVASIVE
 1% MARIPOSITE AS DISSEMINATIONS
 .1% CLAY AS SPCTS
 BLEACHING DUE TO HYDROTHERMAL ALTERATION ASSOCIATED WITH QUARTZ
 VEINING. FELDSPARS (K-SPAR) REPLACED BY CLAY, PSUEDOMORPHED.
 ASSOCIATE MARIPOSITE ALTERATION NO SULFIDES
 From: 77.22MT To: 78.13MT

100 % OF THIS SUBINTERVAL IS
 DYKE LIGHT, LIMEISH GRAY, WITH FELDSPAR
 EXTREMELY FINE GRAINED
 TEXTURE:POPRHYRITIC
 .1% SIDERITE AS MICROVEINS
 1% QUARTZ AS MICROVEINS
 1% MUSCOVITE AS PERVASIVE
 .01% PYRITE AS ENVELOPES
 .01% MARIPOSITE AS ENVELOPES

From: 79.10MT To: 80.46MT
 CORE REC: 100% ROD: .0MT

*A001	15799	79.1	80.4	1.3	90.00	54.00	5.00	35.0	.10	.01	8.00	2.50	3.00
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BRECCIA DARK, GRAYISH BLACK, WITH GRAPHITE
 , VERY POORLY SORTED, VERY ANGULAR, COMPACT, closed
 TEXTURE:CRACKLED
 ??% SIDERITE AS SELVAGES
 1% QUARTZ AS MICROVEINS
 2.5% PYRITE AS BRECCIA FILLINGS
 20% GRAPHITE AS BRECCIA FILLINGS
 CHERT CLASTS, CRACKLED

End of Hole

AUTOVALU

PLACER DEVELOPMENT LIMITED

**** Drillhole:D86DH 25 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:86OCT28

Total Depth of Hole: 91.15 MT

True Collar Azm of Hole: 155.00 Collar Dip: -60.00

Northing: -1426.00 Easting: -1335.00 Collar elev: 0.0 MT

Survey: 0.00 to 91.15 True Azm of Hole: 155.00 Dip: -60.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

TARGET STRONG VLF CONDUCTOR
ALSO TRYING TO ESTABLISH AND TEST WIDTH OF CARBONATE ALTERATION
ZONE ENCOUNTERED IN DH86-24

From: 0.00MT To: 9.14MT

OVERBURDEN
PEBBLE AND COBBLE GRAVEL, NO FINES RECOVERED

From: 9.14MT To: 15.00MT
CORE REC: 100% RQD: 2.0MT

*A001 15800 9.1 12.1 2.9 : 16.00 21.00 4.00 950.0 .10 .01 04.00 2.50 6.00
*A001 15801 12.1 15.1 3.0 : 19.00 27.00 3.00 1000.0 .10 .03 20.00 2.50 9.00

ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERVASIVE
2.5% CLAY AS GOUGE
40% TALC AS PERVASIVE
COMPLETELY ALTERED TO TALC AND SIDERITE, ORIGINAL LITHOLOGY
OBLITERATED (SERPEN - ULTRAMAFIC). VERY SOFT

9.14 to 9.89
MINOR OXIDATION (LIMONITE) ON FRACTURES

From: 11.42MT To: 11.81MT
CORE REC: 100%
100% OF THIS SUBINTERVAL IS
SERPENTINE DARK, GREENISH GRAY
10% SIDERITE AS PATCHES
2.5% CLAY AS GOUGE
10% TALC AS PATCHES

From: 15.00MT To: 20.00MT
CORE REC: 100% RQD: 1.0MT

*A001 15802 15.1 18.1 3.0 : 12.00 21.00 3.00 960.0 .10 .01 87.00 8.00 10.00
*A001 15803 18.1 21.1 3.0 : 12.00 21.00 3.00 960.0 .10 .01 87.00 8.00 10.00

ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERVASIVE
.03% CLAY AS GOUGE
40% TALC AS PERVASIVE

From: 20.00MT To: 25.00MT
CORE REC: 90% RQD: .0MT

*A001 15804 21.1 24.1 3.0 : 17.00 27.00 3.00 1020.0 .10 .01 35.00 2.50 9.00
*A001 15805 24.1 27.1 3.0 : 10.00 18.00 2.00 940.0 .10 .02 64.00 2.50 5.00

ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERVASIVE
2.5% CLAY AS GOUGE

AUTOVALU

*A001 Samp From To Intrvl: PPM.CU PPM.ZN PPM.PB PPM.NI PPM.AG PPM.AU PPM.AS PPB.HG PPM.SB

--continue--

40% TALC AS PERVASIVE

From: 21.23MT To: 22.65MT

CORE REC: 80% RQD: .0MT

100 % OF THIS SUBINTERVAL IS
 FAULT PALE, GRAYISH WHITE
 EXTREMELY FINE GRAINED
 STRUCTURE: CONTACT DIPPING 80

10% SIDERITE AS CLASTS

80% CLAY AS GOUGE

10% TALC AS CLASTS

COMPLETELY GROUND-UP

MEASURING SHEARING AT CONTACT

From: 23.95MT To: 24.25MT

30 % OF THIS SUBINTERVAL IS
 FAULT PALE, GRAYISH WHITE
 EXTREMELY FINE GRAINED
 STRUCTURE: CONTACT DIPPING 82

10% SIDERITE AS CLASTS

80% CLAY AS GOUGE

10% TALC AS CLASTS

JUST CATCHING EDGE OF FAULT ZONE, PART OF THE ZONE ABOVE

From: 25.00MT To: 30.00MT

CORE REC: 83% RQD: .3MT

*A001 15806 27.1 30.1 3.0 : 14.00 23.00 4.00 1030.0 .10 .02 31.00 2.50 5.00

ALTERED ROCK PALE, WHITEISH GRAY
 1% CARBONATE AS MICROVEINS
 40% SIDERITE AS PERVASIVE
 .01% QUARTZ AS MICROVEINS
 2.5% CLAY AS GOUGE
 ??% SERPENTINE AS PATCHES
 40% TALC AS PERVASIVE

From: 26.40MT To: 26.76MT

RQD: . MT

100 % OF THIS SUBINTERVAL IS
 FAULT PALE, GRAYISH WHITE
 EXTREMELY FINE GRAINED
 10% SIDERITE AS CLASTS

70% CLAY AS GOUGE

10% TALC AS CLASTS

From: 28.10MT To: 29.80MT

CORE REC: 60% RQD: .0MT

100 % OF THIS SUBINTERVAL IS
 FAULT PALE, GRAYISH WHITE
 EXTREMELY FINE GRAINED
 STRUCTURE: CONTACT DIPPING 79

20% SIDERITE AS CLASTS

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

40% CLAY AS GOUGE
22% SERPENTINE AS CLASTS
20% TALC AS CLASTS

From: 30.00MT To: 36.70MT
CORE REC: 100% RGD: 2.0MT

*A001 15807	30.1	33.1	3.0	12.00	16.00	2.00	980.0	.10	.02	18.00	2.50	8.00
*A001 15808	33.1	36.7	3.6	11.00	17.00	2.00	950.0	.10	.01	15.00	2.50	4.00

ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERVASIVE
.01% PYRITE AS DISSEMINATIONS

2.5% CLAY AS GOUGE
22% SERPENTINE AS PATCHES
40% TALC AS PERVASIVE

From: 36.70MT To: 39.77MT
CORE REC: 100% RGD: 1.0MT

*A001 15809	36.7	39.7	3.0	60.00	67.00	3.00	740.0	5.00	.05	59.00	20.00	1.00
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SERPENTINE DARK, GREENISH BLACK
10% SIDERITE AS PERVASIVE
60% SERPENTINE AS FRAMEWORK CRYSTALS
30% TALC AS PERVASIVE

NON-MAGNETIC, DARK GREENISH-BLACK, GREASY SERPENTINE.
IN AND OUT OF A SLIVER OF SERPENTINE.
INTERVALS OF COMPLETE ALTERATION WITH INTERVALS OF MODERATE
ALTERATION, TALC ALTERATION PREDOMINATES

From: 39.18MT To: 39.77MT

100 % OF THIS SUBINTERVAL IS

SERPENTINE DARK, GREENISH BLACK
10% SIDERITE AS PERVASIVE
60% SERPENTINE AS FRAMEWORK CRYSTALS
30% TALC AS PERVASIVE

From: 39.67MT To: 39.77MT

100 % OF THIS SUBINTERVAL IS

SERPENTINE DARK, GREENISH BLACK
10% SIDERITE AS PERVASIVE
10% CHALCOPYRITE AS PERVAS.< VEINS
60% SERPENTINE AS FRAMEWORK CRYSTALS
30% TALC AS PERVASIVE

FAULTED CONTACT, SLICKENSIDED WITH GRINDING

From: 39.77MT To: 45.41MT
CORE REC: 95% RGD: 1.5MT

*A001 15810	39.7	42.8	3.0	73.00	17.00	2.00	850.0	.10	.01	00.00	20.00	3.00
*A001 15811	42.8	45.8	3.0	13.00	13.00	2.00	800.0	.10	.01	24.00	16.00	1.00

ALTERED ROCK PALE, WHITEISH GRAY

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

40% SIDERITE AS PERVASIVE
 .1% CLAY AS MICROVEINS
 40% TALC AS PERVASIVE

From: 40.10MT To: 41.20MT
 CORE REC: 80% RQD: .0MT
 100% OF THIS SUBINTERVAL IS
 FAULT PALE, GRAYISH WHITE

EXTREMELY FINE GRAINED
 STRUCTURE: CONTACT DIPPING 87
 30% SIDERITE AS CLASTS
 30% CLAY AS GOUGE
 30% TALC AS CLASTS

From: 43.85MT To: 45.41MT

100% OF THIS SUBINTERVAL IS
 ALTERED ROCK PALE, WHITEISH GRAY
 40% SIDERITE AS PERVASIVE
 .1% CLAY AS MICROVEINS
 40% TALC AS PERVASIVE

From: 44.65MT To: 44.75MT

100% OF THIS SUBINTERVAL IS
 FAULT PALE, GRAYISH WHITE
 EXTREMELY FINE GRAINED
 10% SIDERITE AS CLASTS
 80% CLAY AS GOUGE
 10% TALC AS CLASTS

From: 45.41MT To: 45.76MT
 CORE REC: 100% RQD: .0MT

SERPENTINE DARK, GREENISH BLACK
 .1% PYRITE AS MICROVEINS
 80% SERPENTINE AS FRAMEWORK CRYSTALS
 20% TALC AS PERVAS. >VEINS

From: 45.76MT To: 50.20MT
 CORE REC: 90% RQD: .0MT

*A001	15812	45.8	48.8	3.0	:	24.00	14.00	2.00	840.0	:10	:01	27.00	12.00	1.00
*A001	15813	48.8	50.2	1.4	:	13.00	15.00	2.00	830.0	:10	:01	54.00	20.00	1.00

ALTERED ROCK PALE, WHITEISH GRAY
 40% SIDERITE AS PERVASIVE
 40% TALC AS PERVASIVE

From: 45.76MT To: 47.24MT
 CORE REC: 75% RQD: .5MT

70% OF THIS SUBINTERVAL IS
 FAULT PALE, GRAYISH WHITE
 EXTREMELY FINE GRAINED

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

30% SIDERITE AS PERSVASIVE
30% CLAY AS GOUGE
30% TALC AS PERSVASIVE

From: 50.20MT To: 56.56MT
CORE REC: 100% RQD: 2.0MT

*A001 15814	50.2	53.2	3.0	22.00	44.00	4.00	380.0	.10	.09	24.00	2.50	1.00
*A001 15815	53.2	56.5	3.3	22.00	23.00	4.00	540.0	.10	.01	27.00	2.50	1.00

SERPENTINE
20% SIDERITE AS PERSVASIVE
.01% PYRITE AS MICROVEINS
20% SERPENTINE AS FRAMEWORK CRYSTALS
60% TALC AS PERSVASIVE
VARIABLE MODERATELY TO INTENSY ALTERED SERPENTINE
SEQUENCE OF INCREASING INTENSITY OF ALTERATION = SERP TO TALC TO
FE-CARBONATE; OVERLAPPING
VARIABLE COLOR, DK GREENISH BLACK THRU PALE GREENISH-GREY TO
PALE WHITISH-GREY
ALTERATION OF SERPENTINE BEGINS WITH PERSVASIVE SPOTTY ALTERATION
AND PROCEEDS TO ALMOST COMPLETE REPLACEMENT
TRANSITION TO CARBONATE ALTERATION SEEMS MORE ABRUPT

From: 56.56MT To: 60.00MT
CORE REC: 100% RQD: 1.0MT

*A001 15816	56.5	59.6	3.0	16.00	18.00	4.00	580.0	.10	.03	93.00	2.50	7.00
*A001 15817	59.6	62.6	3.0	16.00	12.00	3.00	940.0	.10	.04	49.00	2.50	3.00

ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERSVASIVE
.1% CLAY AS MICROVEINS
40% TALC AS PERSVASIVE

From: 60.00MT To: 65.00MT
CORE REC: 100% RQD: 2.0MT

*A001 15818	62.6	65.6	3.0	16.00	13.00	4.00	950.0	.20	.02	42.00	8.00	1.00
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ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERSVASIVE
.1% CLAY AS MICROVEINS
40% TALC AS PERSVASIVE

From: 65.00MT To: 70.00MT
CORE REC: 100% RQD: 1.0MT

*A001 15819	65.6	68.6	3.0	18.00	19.00	4.00	950.0	.10	.09	89.00	2.50	6.00
*A001 15820	68.6	71.6	3.0	17.00	19.00	3.00	910.0	.10	.01	07.00	12.00	3.00

ALTERED ROCK PALE, WHITEISH GRAY
30% SIDERITE AS PERSVASIVE
.1% CLAY AS MICROVEINS
50% TALC AS PERSVASIVE

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*A001	Samp	From	To	Intrvl	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
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From: 70.00MT To: 75.00MT
CORE REC: 100% ROD: 2.0MT

*A001	15821	71.6	74.6	3.0	17.00	19.00	5.00	940.0	.10	.02	11.00	2.50	5.00
*A001	15822	74.6	77.6	3.0	20.00	12.00	4.00	920.0	.20	.03	34.00	16.00	1.00

ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERVASIVE
.1% CLAY AS MICROVEINS
40% TALC AS PERVASIVE

From: 75.00MT To: 81.40MT
CORE REC: 100% ROD: 2.0MT

*A001	15823	77.6	80.6	3.0	15.00	15.00	4.00	930.0	.10	.02	27.00	2.50	4.00
*A001	15824	80.6	81.4	.8	16.00	14.00	7.00	890.0	.10	.02	19.00	2.50	1.00

ALTERED ROCK PALE, WHITEISH GRAY
40% SIDERITE AS PERVASIVE
.1% CLAY AS MICROVEINS
40% TALC AS PERVASIVE

From: 81.40MT To: 82.40MT
CORE REC: 100% ROD: .0MT

*A001	15825	81.4	82.4	1.0	17.00	65.00	6.00	62.0	.10	.01	1.00	2.50	1.00
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SERPENTINE DARK, BLACKISH GREEN, WITH MAGNETITE
STRUCTURE: CONTACT DIPPING 80, CONTACT DIPPING 47
ALL FRACTURES SLICKENSIDED

From: 82.40MT To: 84.50MT
CORE REC: 100% ROD: .0MT

*A001	15826	82.4	84.5	2.1	28.00	21.00	4.00	920.0	.10	.01	9.00	2.50	3.00
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FAULT PALE, GRAYISH WHITE
20% SIDERITE AS CLASTS
20% CLAY AS GOUGE
20% SERPENTINE AS CLASTS
20% TALC AS CLASTS
ALL FRACTURES SLICKENSIDED

From: 84.50MT To: 88.69MT
CORE REC: 98% ROD: .8MT

*A001	15827	84.5	88.6	4.1	38.00	71.00	9.00	166.0	.10	.01	1.00	23.00	1.00
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SERPENTINE DARK, GREEN
TEXTURE: CRACKLED, BRECCIATED
SPOTTY TO PERVASIVES TALC ALTERATION. NON-MAGNETIC

From: 86.66MT To: 88.69MT
CORE REC: 95% ROD: .5MT

100% OF THIS SUBINTERVAL IS
FAULT LIGHT, GRAY
.01% PYRITE AS MICROVEINS
.07% CHLORITE AS MICROVEINS

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPM HG PPM SB

--continue--

.07% CLAY AS GOUGE
 .07% SERPENTINE AS FRAMEWORK CRYSTALS
 30% TALC AS PERVASIVE
 DULL, EARTHY GREY, SHATTERED, NOT REALLY GOUGY
 WAS SERPENTINE; DIFFICULT TO ESTIMATE MINERALOGY

From: 88.69MT To: 91.15MT
 CORE REC: 85% ROD: .5MT

*A001 15828 88.6 91.1 2.4 : 75.00 01.00 11.00 52.0 .10 .01 3.00 2.50 2.00

BRECCIA V. DARK, GRAYISH BLACK
 .01% CARBONATE AS MICROVEINS
 1% PYRITE AS MICROVEINS
 50% GRAPHITE AS BRECCIA FILLINGS
 GRAPHITE IS COAL-LIKE; MOST SURFACES SLICKENSIDED
 CHERT CLASTS

End of Hole

Property: SHUKSAN PROPERTY

Logged by: MBG Date:86OCT29

Total Depth of Hole: 65.22 MT True Collar Azm of Hole: 330.00 Collar Dip: -50.00

Northing: -1450.00 Easting: -1208.00 Collar elev: 0.0 MT

Survey: 0.00 to 65.22 True Azm of Hole: 330.00 Dip: -50.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

DRILLING THROUGH A VLF CONDUCTOR AND INTO A STRONG MAGNETIC HIGH

From: 0.00MT To: 8.10MT

OVERBURDEN
PEBBLES AND COBBLES, SOME SILTY-SANDY MATRIX NEAR TOP

From: 8.10MT To: 15.00MT

CORE REC: 65% RGD: .5MT

*A001	15829	8.1	11.1	3.0	:	50.00	62.00	6.00	43.0	.10	.01	1.00	8.00	1.00
*A001	15830	11.1	14.1	3.0	:	72.00	71.00	7.00	39.0	.10	.01	1.00	8.00	3.00
*A001	15831	14.1	17.1	3.0	:	53.00	70.00	6.00	31.0	.10	.01	1.00	20.00	3.00

SHALE, BLACK, WITH GRAPHITE
TEXTURE:INTERBEDDED
STRUCTURE:BEDDING DIPPING 45
2.5% CARBONATE AS MICROVEINS
.01% LIMONITE AS STAINIGS

From: 8.10MT To: 15.00MT

50 % OF THIS SUBINTERVAL IS
CHERT LIGHT, GRAY
TEXTURE:CRACKLED, INTERBEDDED
2.5% CARBONATE AS MICROVEINS
.01% LIMONITE AS STAINIGS

INTERBEDDED GRAPHITIC SHALE AND CHERT,
TOP 2-3 M ARE BROKEN BEDROCK, POOR RECOVERY
BEDS DISRUPTED INCREASINGLY APPROACHING BRECCIA

From: 15.00MT To: 18.10MT

CORE REC: 95% RGD: .5MT

*A001	15832	17.1	18.1	1.0	:	51.00	73.00	7.00	35.0	.10	.01	1.00	39.00	1.00
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BRECCIA DARK, GRAYISH BLACK
FINE GRAINED, POORLY SORTED, ANGULAR, COMPACT, closed
TEXTURE:BRECCIATED
.1% CARBONATE AS MICROVEINS
.1% PYRITE AS CLASTS
30% GRAPHITE AS BRECCIA FILLINGS
.01% LIMONITE AS STAINIGS
DERIVED FROM INTERBEDDED BLACK SHALE AND CHERT
BEDDING COMPLETELY DESTROYING

From: 18.10MT To: 23.50MT

CORE REC: 100% RGD: 1.0MT

*A001	15833	18.1	21.5	3.4	:	93.00	63.00	3.00	65.0	.10	.01	4.00	16.00	1.00
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AUTOVAL

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*A001	Samp	From	To	Intrvl:	PPM_CU	PPM_ZN	PPM_PB	PPM_NI	PPM_AG	PPM_AU	PPM_AS	PPB_HG	PPM_SB
*A001	15834	21.5	23.5	2.0	00.00	03.00	2.00	62.0	.10	.01	1.00	12.00	3.00

BRECCIA LIGHT, TAN
 STRUCTURE: CONTACT DIPPING 35
 .07% CARBONATE AS PERVASIVE
 .1% PYRITE AS BRECCIA FILLINGS
 10% GRAPHITE AS BRECCIA FILLINGS
 .07% CLAY AS PERVASIVE
 UPPER CONTACT 1 CM GOUGY FAULT CONTACT. <<
 ALTERED UNCERTAIN OF LITHOLOGY, SIMILAR TO SOFT CLASTS IN AT TOP
 OF BRECCIA IN LAST HOLE.

From: 19.50MT To: 19.90MT

100 % OF THIS SUBINTERVAL IS
 SHALE LIGHT, BLACK
 STRUCTURE: QUARTZ VEIN DIPPING 85
 22% CARBONATE AS SELVAGES
 30% QUARTZ AS STOCKWORK
 .01% PYRITE AS DISSEMINATIONS
 .07% CLAY AS PERVASIVE

From: 23.50MT To: 26.40MT
 CORE REC: 98% RQD: .8MT

*A001	15835	23.5	26.4	2.9	58.00	91.00	8.00	50.0	.10	.02	1.00	2.50	1.00
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BRECCIA DARK, GRAYISH BLACK
 EXTREMELY FINE GRAINED, POORLY SORTED, ANGULAR, COMPACT, closed
 .1% CARBONATE AS MICROVEINS
 50% GRAPHITE AS BRECCIA FILLINGS

From: 26.40MT To: 31.40MT
 CORE REC: 100% RQD: .0MT

*A001	15836	26.4	29.4	3.0	63.00	67.00	4.00	32.0	.10	.01	1.00	2.50	1.00
*A001	15837	29.4	31.4	2.0	78.00	51.00	4.00	34.0	.10	.02	1.00	12.00	2.00

SHALE V.DARK, GRAYISH BLACK
 TEXTURE: CRACKLED, MICROVEINED, BLOCKY
 .3% CARBONATE AS MICROVEINS
 2.5% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS
 MICROVEINS AS FRACTURE INFILLINGS, GASH VEINLETS AND LOCALLY
 BRECCIA FILLINGS. VEINLETS WHITE AND BARREN, COLD LOOKING
 LOWER CONTACT LOCATION UNCERTAIN, MAYBE GRADATIONAL

From: 29.90MT To: 31.40MT

100 % OF THIS SUBINTERVAL IS
 SHALE V.DARK, GRAYISH BLACK
 TEXTURE: CRACKLED, MICROVEINED, BLOCKY
 .3% CARBONATE AS MICROVEINS
 2.5% QUARTZ AS MICROVEINS
 .01% PYRITE AS MICROVEINS

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From: 31.40MT To: 44.80MT
CORE REC: 98% RQD: .8MT

*A001	Samp	From	To	Intrvl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
*A001	15838	31.4	34.4	3.0	76.00	76.00	29.00	38.0	.10	.01	1.00	12.00	1.00
*A001	15839	34.4	37.4	3.0	79.00	60.00	6.00	43.0	.40	.01	17.00	2.50	1.00
*A001	15840	37.4	40.4	3.0	50.00	79.00	6.00	38.0	.10	.01	12.00	8.00	2.00
*A001	15841	40.4	43.4	3.0	57.00	90.00	6.00	38.0	.10	.01	1.00	12.00	1.00
*A001	15842	43.4	44.8	1.4	64.00	97.00	20.00	59.0	.10	.01	1.00	16.00	1.00

SHALE DARK, BLACKISH GRAY
TEXTURE: CRACKLED, BRECCIATED, INTERBEDDED, BLOCKY
.03% CARBONATE AS MICROVEINS
.1% QUARTZ AS MICROVEINS
.07% GRAPHITE AS BRECCIA FILLINGS
.03% LIMONITE AS MICROVEINS
DISTURPTED, INTERBEDDED BLACK SHALE AND A GREYISH SHALE
NOT AS MASSIVE AS PREVIOUS INTERVAL; GASH VEINLETS LESS ABUNDANT
FRACTURING VARIABLE FROM LOW-MOD INTENSITY TO LOCALLY SHATTERED
CRACKLED TO LOCALLY BRECCIATED, MATRIX DULL DARK BLACK= GRAPHITE
OCCASIONAL LIGHTER GREY CHERTY CLASTS

From: 36.00MT To: 36.40MT

100 % OF THIS SUBINTERVAL IS
SHALE DARK, BLACKISH GRAY
TEXTURE: CRACKLED, BRECCIATED, INTERBEDDED, BLOCKY
.03% CARBONATE AS MICROVEINS
.1% QUARTZ AS MICROVEINS
.07% GRAPHITE AS BRECCIA FILLINGS
2.5% CLAY AS GOUGE
.03% LIMONITE AS MICROVEINS

From: 40.60MT To: 41.15MT

100 % OF THIS SUBINTERVAL IS
SHALE DARK, BLACKISH GRAY
TEXTURE: CRACKLED, BRECCIATED, INTERBEDDED, BLOCKY
.03% CARBONATE AS MICROVEINS
.1% QUARTZ AS MICROVEINS
.07% GRAPHITE AS BRECCIA FILLINGS
5% CLAY AS GOUGE
.03% LIMONITE AS MICROVEINS

From: 44.80MT To: 65.22MT
CORE REC: 100% RQD: 13.0MT

*A001	15843	44.8	45.4	.6	5.00	72.00	2.00	420.0	.10	.01	7.00	16.00	2.00
*A001	15844	45.4	48.2	2.8	2.00	03.00	0.00	58.0	.10	.01	1.00	2.50	1.00
*A001	15845	48.2	51.2	3.0	30.00	35.00	3.00	1400.0	.10	.01	10.00	16.00	1.00
*A001	15846	51.2	54.2	3.0	13.00	20.00	4.00	1600.0	.10	.01	20.00	16.00	8.00
*A001	15847	54.2	57.2	3.0	8.00	13.00	3.00	1600.0	.10	.01	4.00	8.00	1.00
*A001	15848	57.2	60.2	3.0	6.00	13.00	3.00	1600.0	.10	.01	6.00	16.00	1.00
*A001	15849	60.2	63.2	3.0	17.00	18.00	4.00	1490.0	.10	.01	1.00	20.00	1.00
*A001	15850	63.2	65.2	2.0	5.00	29.00	4.00	1580.0	.10	.01	2.00	8.00	4.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

ULTRAMAFIC DARK, GREENISH GRAY, WITH MAGNETITE
 TEXTURE:UNIFORM TEXTURED, MOTTLED
 .1% CARBONATE AS MICROVEINS
 20% SERPENTINE AS PERVAS.=VEINS

MOSTLY HIGHLY MAGNETIC; MOTTLED DARK GREY AND GREEN.
 SERPENTINIZATION ALONG MICROFRACTURES AND SPOTTY ADJACENT FRAC.
 RATHER UNREMARKABLE ROCK, FAULTED UPPER CONTACT
 EXPLAINS THE STRONG MAGNETIC SIGNATURE

From: 44.80MT To: 45.40MT

100 % OF THIS SUBINTERVAL IS

ULTRAMAFIC DARK, GREENISH GRAY, WITH MAGNETITE
 TEXTURE:UNIFORM TEXTURED, MOTTLED
 .1% CARBONATE AS MICROVEINS
 5% CLAY AS GOUGE
 60% SERPENTINE AS PERVASIVE
 30% TALC AS PERVASIVE

From: 45.40MT To: 48.26MT

100 % OF THIS SUBINTERVAL IS

BRECCIA DARK, GREENISH GRAY
 30% SIDERITE AS CLASTS
 50% QUARTZ AS CLASTS
 2.5% PYRITE AS MICROVEINS
 10% CHLORITE AS BRECCIA FILLINGS
 10% CLAY AS BRECCIA FILLINGS
 20% SERPENTINE AS PERVAS.=VEINS

CLASTS ARE TAN COLORED CARBONATE ALTERED AND CRACKLED VEIN QTZ
 ALSO CUT BY SEVERAL MILKY QUARTZ VEINLETS

From: 48.26MT To: 49.16MT

100 % OF THIS SUBINTERVAL IS

ULTRAMAFIC LIGHT, LIMEISH GREEN, WITH MAGNETITE
 TEXTURE:UNIFORM TEXTURED, MOTTLED
 STRUCTURE:FAULT DIPPING 60
 .1% CARBONATE AS MICROVEINS
 20% SERPENTINE AS PERVAS.=VEINS
 90% TALC AS PERVASIVE

From: 49.16MT To: 50.78MT

100 % OF THIS SUBINTERVAL IS

ULTRAMAFIC, WITH MAGNETITE
 TEXTURE:UNIFORM TEXTURED, MOTTLED
 .1% CARBONATE AS MICROVEINS
 5% SIDERITE AS GOUGE

From: 50.78MT To: 51.20MT

70 % OF THIS SUBINTERVAL IS

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

FAULT PALE, WHITEISH GREEN
 5% CARBONATE AS VEINS
 10% CLAY AS GOUGE
 80% SERPENTINE AS PERVASIVE
 1% TALC AS VEINS

From: 51.20MT To: 52.30MT

100 % OF THIS SUBINTERVAL IS
 ULTRAMAFIC DARK, GRAYISH GREEN, WITH MAGNETITE
 TEXTURE: UNIFORM TEXTURED, MOTTLED
 .1% CARBONATE AS MICROVEINS
 30% SERPENTINE AS PERVASIVE VEINS
 GRADUAL DECREASE IN SERPENTINIZATION AWAY FROM CONTACT
 THESE FROM-TO'S ARE SOMEWHAT ARBITRARY. INCREASING MAGNETIC
 STRENGTH, DECREASING AREAS OF GREEN COLORATION

End of Hole

AUTOVALU

PLACER DEVELOPMENT, LIMITED

**** Drillhole:D86DH 27 ****

page 1

Property: SHUKSAN PROPERTY

Logged by: MBG Date:860CT30

Total Depth of Hole: 54.56 MT

True Collar Azm of Hole: 150.

Collar Dip: -50.00

Northing: -1280.00

Easting: -1200.00

Collar elev:

0.0 MT

Survey: 0.00 to 54.56 True Azm of Hole: 150. Dip: -50.00

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

DRILLING THROUGH A VLF CONDUCTOR AND A MAGNETIC LOW ON THE NE FLANK OF A STRONG MAGNETIC HIGH

From: 0.00MT To: 6.71MT

OVERBURDEN
PEBBLES AND SMALL COBBLES RECOVERED

From: 6.71MT To: 8.94MT
CORE REC: 95% RQD: .5MT

*A001 15851 6.7 8.9 2.2 : 64.00 53.00 11.00 450.0 .10 .01 6.00 2.50 2.00

FAULT PALE, ORANGEISH BROWN
.07% CARBONATE AS PERVASIVE
.07% CLAY AS GOUGE
20% LIMONITE AS VEINS & PATCHES
IMPOSSIBLE TO TELL ORIGINAL LITHOLOGY
OXIDIZED

From: 8.94MT To: 10.07MT
CORE REC: 100% RQD: .0MT

*A001 15852 8.9 10.0 1.1 : 54.00 85.00 8.00 172.0 .10 .01 1.00 27.00 2.00

BRECCIA LIGHT, ORANGEISH BROWN
.07% SIDERITE AS PERVASIVE
20% SILICIFICATION AS CLASTS
40% LIMONITE AS PERVASIVE
ALTERED BRECCIA WITH SILICEOUS CLASTS AND SOME CARBONATE CLASTS
CARBONATE (SIDERITE) MATRIX. OXIDIZED

From: 10.07MT To: 13.55MT
CORE REC: 100% RQD: .0MT

*A001 15853 10.0 13.5 3.4 : 77.00 75.00 6.00 149.0 .10 .01 4.00 35.00 3.00

DYKE PALE, TANISH GRAY, WITH FELDSPAR
FINE GRAINED
TEXTURE:POPRHYRITIC
STRUCTURE:CONTACT DIPPING 45
.07% SIDERITE AS PERVASIVE
1% MARIPOSITE AS DISSEMINATIONS
??% CLAY AS PERVASIVE
OCCASIONAL SLIGHTLY ALTERED SECTION WITH ORIGINAL TEXTURE
EARTHY AND RELATIVELY SOFT ALTERATION.
ORIGINALLY AN ANDESITE ?; MED GREY, FG, PORPHYRITIC

From: 13.55MT To: 30.95MT
CORE REC: 100% RQD: 6.0MT

*A001 15854 13.5 14.5 1.0 : 10.00 25.00 5.00 910.0 .10 .02 22.00 27.00 1.00

--continue--

*A001	Samp	From	To	Intrl:	PPM CU	PPM ZN	PPM PB	PPM NI	PPM AG	PPM AU	PPM AS	PPB HG	PPM SB
*A001	15855	14.5	15.5	1.0	7.00	24.00	9.00	670.0	.10	.02	29.00	16.00	3.00
*A001	15856	15.5	16.5	1.0	13.00	26.00	7.00	740.0	.10	.01	70.00	16.00	6.00
*A001	15857	16.5	17.5	1.0	21.00	30.00	3.00	1300.0	.10	.02	78.00	16.00	9.00
*A001	15858	17.5	18.5	1.0	10.00	28.00	3.00	820.0	.10	.01	38.00	27.00	9.00
*A001	15859	18.5	19.5	1.0	11.00	26.00	3.00	720.0	.10	.01	17.00	12.00	11.00
*A001	15860	19.5	20.5	1.0	11.00	30.00	4.00	1180.0	.10	.02	77.00	12.00	33.00
*A001	15861	20.5	21.5	1.0	8.00	28.00	4.00	950.0	.10	.05	72.00	16.00	21.00
*A001	15862	21.5	22.5	1.0	8.00	40.00	4.00	1040.0	.10	.03	18.00	39.00	26.00
*A001	15863	22.5	23.5	1.0	6.00	37.00	2.00	880.0	.10	.01	02.00	20.00	42.00
*A001	15864	23.5	24.5	1.0	10.00	36.00	2.00	930.0	.10	.02	58.00	20.00	67.00
*A001	15865	24.5	25.5	1.0	7.00	35.00	2.00	1170.0	.10	.03	66.00	12.00	23.00
*A001	15866	25.5	26.5	1.0	6.00	26.00	2.00	1210.0	.10	.03	39.00	16.00	30.00
*A001	15867	26.5	27.5	1.0	7.00	24.00	2.00	1010.0	.10	.01	16.00	12.00	9.00
*A001	15868	27.5	28.5	1.0	8.00	25.00	2.00	1160.0	.10	.02	33.00	12.00	16.00
*A001	15869	28.5	29.5	1.0	7.00	28.00	2.00	1050.0	.10	.03	26.00	12.00	14.00
*A001	15870	29.5	30.9	1.4	6.00	23.00	2.00	950.0	.10	.06	35.00	16.00	9.00

LISTWANITE PALE, WHITEISH GRAY

TEXTURE:BLOCKY

.3% CARBONATE AS MICROVEINS

50% SIDERITE AS PERVASIVE

1% QUARTZ AS MICROVEINS

20% SILICIFICATION AS PERVASIVE

.3% PYRITE AS DISSEMINATIONS

5% MARIPOSITE AS DISSEMINATIONS

??% TALC AS PERVASIVE

SOME VARIETY OF TEXTURES IN THE LISTWANITE PROBABLY REFLECTING

ORIGINAL LITHOLOGICAL DIFFERENCES

MOD-STRONGLY SILICIFIED, SOMEWHAT PATCHY

DISTRIBUTION OF MARIPOSITE VARIABLE

QUARTZ VEINLETS BUT NO REALLY OBVIOUS STOCKWORK DEVELOPMENT

13.55 to 20.00

TEXTURALLY LOOKS LIKE SILICA FLOODED PORPHYRITIC MG GRANITOID

14.97 to 15.96

FG EQUIGRANULAR UNSILICIFIED ALTERED INTRUSIVE (DYKE ?)

13.55 to 16.00

OXIDADATION ON AND ADJACENT FRACTURES

From: 19.40MT To: 20.00MT

100 % OF THIS SUBINTERVAL IS

LISTWANITE PALE, WHITEISH GRAY

TEXTURE:BLOCKY

.3% CARBONATE AS MICROVEINS

50% SIDERITE AS PERVASIVE

1% QUARTZ AS MICROVEINS

20% SILICIFICATION AS PERVASIVE

.3% PYRITE AS DISSEMINATIONS

5% MARIPOSITE AS DISSEMINATIONS

1% CLAY AS GOUGE

??% TALC AS PERVASIVE

40% LIMONITE AS PERVASIVE

From: 20.53MT To: 21.70MT

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB HG PPM SB

--continue--

100 % OF THIS SUBINTERVAL IS
LISTWAENITE PALE, WHITEISH GRAY
TEXTURE:BLOCKY
.3% CARBONATE AS MICROVEINS
50% SIDERITE AS PERVASIVE
1% QUARTZ AS MICROVEINS
20% SILICIFICATION AS PERVASIVE
.3% PYRITE AS DISSEMINATIONS
5% MARIPOSITE AS DISSEMINATIONS
??% TALC AS PERVASIVE
.1% LIMONITE AS MICROVEINS

From: 22.01MT To: 22.09MT

100 % OF THIS SUBINTERVAL IS
FAULT LIGHT, ORANGEISH TAN

From: 30.95MT To: 35.65MT
CORE REC: 100% RQD: .0MT

*A001 15871	30.9	33.9	3.0	:	6.00	22.00	2.00	950.0	:10	:10	48.00	8.00	5.00
*A001 15872	33.9	35.6	1.7	:	22.00	22.00	3.00	1020.0	:10	:07	28.00	8.00	5.00

ALTERED ROCK LIGHT, WHITEISH GRAY

TEXTURE:BLOCKY
60% SIDERITE AS PERVASIVE
.1% QUARTZ AS MICROVEINS
.03% MARIPOSITE AS ENVELOPES
30% TALC AS PERVASIVE
.03% LIMONITE AS MICROVEINS
SOFT, NOT SILICIFIED
ABRUPT (LESS THAN 10 CM) CHANGE FROM LISTWANITE

From: 35.65MT To: 40.84MT
CORE REC: 55%

*A001 15873	35.6	36.6	1.0	:	26.00	33.00	8.00	1090.0	:10	:09	57.00	12.00	11.00
*A001 15874	36.6	37.6	1.0	:	13.00	23.00	4.00	1350.0	:10	:07	46.00	12.00	12.00
*A001 15875	37.6	40.8	3.1	:	14.00	27.00	5.00	1040.0	:10	:09	31.00	16.00	3.00

LISTWAENITE LIGHT, ORANGEISH TAN

60% SIDERITE AS PERVASIVE
1% QUARTZ AS MICROVEINS
20% SILICIFICATION AS PERVASIVE
5% MARIPOSITE AS DISSEMINATIONS
??% TALC AS PERVASIVE
5% LIMONITE AS VEINS & PATCHES
DO NOT SEE SULFIDES, HOWEVER DIFFICULT TO SEE DETAILS IN FROSTED
CORE.

From: 35.65MT To: 37.65MT
CORE REC: 100%

100 % OF THIS SUBINTERVAL IS
LISTWAENITE

*A001 Samp From To Intrvl: PPM CU PPM ZN PPM PB PPM NI PPM AG PPM AU PPM AS PPB H6 PPM SB

--continue--

60% SIDERITE AS PERVASIVE
1% QUARTZ AS MICROVEINS
20% SILICIFICATION AS PERVASIVE
% MARIPOSITE AS

From: 37.65MT To: 40.84MT
CORE REC: 40%

100 % OF THIS SUBINTERVAL IS

LISTWAENITE
60% SIDERITE AS PERVASIVE
1% QUARTZ AS MICROVEINS
20% SILICIFICATION AS PERVASIVE
% MARIPOSITE AS

From: 40.84MT To: 42.37MT
CORE REC: 0%

LOST CORE
FAULT ZONE ?

From: 42.37MT To: 54.56MT
CORE REC: 100% Rqd: 1.0MT

*A001	15876	42.3	45.4	3.0	:	31.00	63.00	8.00	290.0	.10	.01	80.00	8.00	3.00
*A001	15877	45.4	48.4	3.0	:	48.00	69.00	32.00	126.0	.10	.01	4.00	20.00	1.00
*A001	15878	48.4	51.4	3.0	:	64.00	62.00	21.00	118.0	.10	.01	8.00	16.00	5.00
*A001	15879	51.4	54.5	3.1	:	50.00	55.00	24.00	135.0	.10	.01	2.00	2.50	2.00

ANDESITE DARK, GRAY, WITH FELDSPAR, BIOTITE
EXTREMELY FINE GRAINED
TEXTURE:UNIFORM TEXTURED, POPHRITIC
.3% CARBONATE AS MICROVEINS
1% QUARTZ AS MICROVEINS
.3% PYRITE AS MICROVEINS
.3% CHLORITE AS MICROVEINS
APHANITIC PORPHYRITIC? FELDSPAR AND BIOTITE PHENOCRYSTS ?
NON-MAGNETIC

From: 42.37MT To: 44.50MT

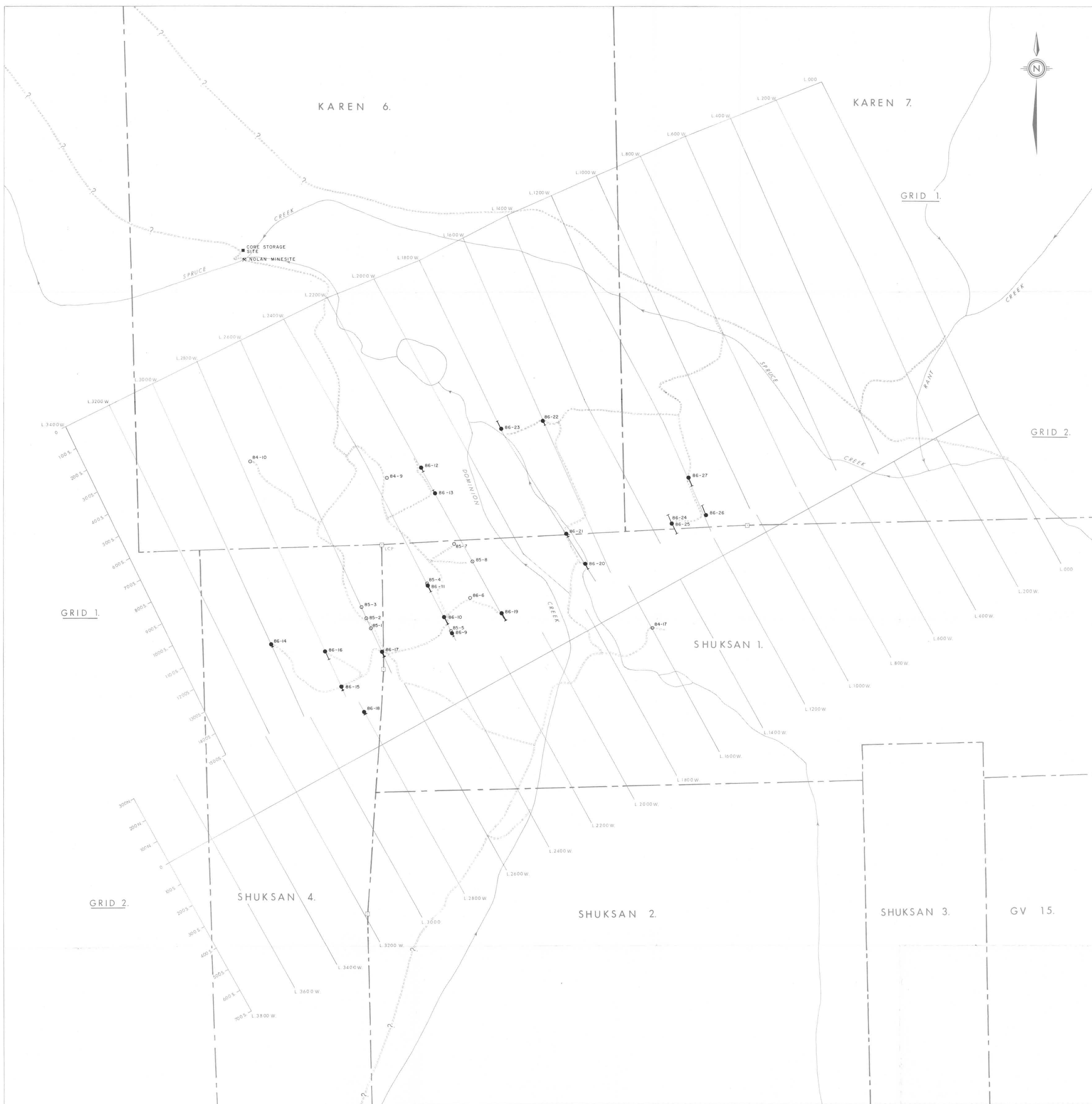
100 % OF THIS SUBINTERVAL IS

ANDESITE MEDIUM, GREENISH GRAY, WITH FELDSPAR, BIOTITE
EXTREMELY FINE GRAINED
TEXTURE:CRACKLED, POPHRITIC
??% CARBONATE AS PERVASIVE
1% QUARTZ AS MICROVEINS
.3% PYRITE AS MICROVEINS
.3% CHLORITE AS MICROVEINS

BLEACHING; WK-MOD ALTERATION ADJACENT FAULT

End of Hole

MB Garcia



LEGEND

- 84-10 1984 DIAMOND DRILL HOLE BY STANDARD GOLD MINES LTD.
- 85-1 1985 ROTARY/PERCUSSION DRILL HOLE BY PLACER DEV. LTD.
- 86-9 1986 DIAMOND DRILL HOLE BY PLACER DEV. LTD.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,006

FIGURE 3



DRAWN: M.B.G.	SCALE: 1:5000	PLACER DEVELOPMENT LIMITED	DRILL HOLE LOCATIONS
DRAFTING: A.K.	DATE: 18 MAR, 1987	SPRUCE CREEK PROJECT	
APPROVED:	REVISED:	V-209 — N.T.S. 104 N/11,12	