

ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 92.08.02

ASSESSMENT REPORT 21740

MINING DIVISION: Cariboo

PROPERTY: G South  
LOCATION: LAT 53 10 00 LONG 122 20 00  
UTM 10 5890801 544569  
NTS 093G01W

CAMP: 036 Cariboo - Quesnel Belt

CLAIM(S): G 30-31  
OPERATOR(S): Appian Res. Valerie Gold Mines  
AUTHOR(S): Gonzalez, R.A.  
REPORT YEAR: 1991, 38 Pages  
KEYWORDS: Triassic, Takla Group, Andesites, Dacites, Argillites, Pyrite  
Chalcopyrite

WORK  
DONE: Drilling, Geochemical  
DIAD 300.5 m 3 hole(s);NQ  
SAMP 91 sample(s) ;ME

MINFILE: 093G 007

LOG NO: OCT 23 1991 RD.

ACTION:

FILE NO:

ASSESSMENT REPORT

DIAMOND DRILLING ON THE G-SOUTH CLAIM BLOCK

CARIBOO MINING DIVISION, B.C.

N.T.S. 93 G/1W

BY

R.A. GONZALEZ, MSc., F.G.A.C., P.ENG.

OCTOBER, 1991

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,740

CLAIM WORKED

CLAIM NAME	UNITS	RECORD NO.	ANNIVERSARY DATE
G 30	20	3237	16 MARCH
G 31	20	3238	13 MARCH
LOCATION:	53° 10' NORTH LATITUDE 122° 20' WEST LONGITUDE		
OWNER/OPERATOR:	APPIAN RESOURCES LTD./ VALERIE GOLD RESOURCES LTD.		
PROJECT SUPERVISOR:	R.A. GONZALEZ ADDER EXPLORATION AND DEVELOPMENT LTD.		
APPROVAL NUMBER:	PRG - 1991- 1100036 - 4 -5152		

**SUMMARY:**

The Ahbau Creek property is a gold-copper prospect located approximately 35 kilometres northeast of Quesnel, B.C. The property is comprised of 25 Modified Grid Mineral Claims consisting of 484 unites and 4 two-post claims.

Previous exploration carried out by Gabriel Resources Inc. involving geological, geochemical and geophysical surveying, and diamond and percussion drilling. This work located several target areas on the property which required additional drill definition.

The program conducted by Valerie Resources Ltd. was designed to re-test two previously drilled targets and drill test a significant geophysical anomaly. Of the two previously drilled targets, one was a gold intersection and one was a copper/gold intersection. The geophysical target is a northwest trending EM anomaly that is traceable for several kilometres. Three diamond-drill holes totaling 300 metres (986 feet) tested these three targets.

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## **1.0 INTRODUCTION:**

Valerie Resources Ltd. holds, by way of an option agreement with Appian Resources Ltd., 25 Modified Grid Claims comprised of 464 claim units. In addition, Valerie purchased one 20 unit Modified Grid Claim and 4 two-post claims.

The purpose of the 1991 field program was to follow up anomalous areas identified as possible sources of base and precious metal mineralization. The exploration program consisted of three diamond-drill holes totaling approximately 300 metres (986 feet).

## **1.1 LOCATION AND ACCESS;;**

The Ahbau Creek property is situated east on the Fraser River, straddling Highway 97, 35 kilometres northeast of the town of Quesnel (Figure 1). The claims lie within an area 53° 10' to 53° 15' North Latitude and 122° 15' to 122° 25' West Longitude. All claims are found on NTS map sheet 93G/1W.

Access to the general area of drilling is from Highway 97 to the turn off immediately north of the Ahbau Creek Bridge. This side road (Olson Road) leads to the B.C. Rail Crossing at Ahbau. From the Rail Crossing, several summer-weather, low-maintenance logging roads cross the property.

VALERIE GOLD RESOURCES LTD.

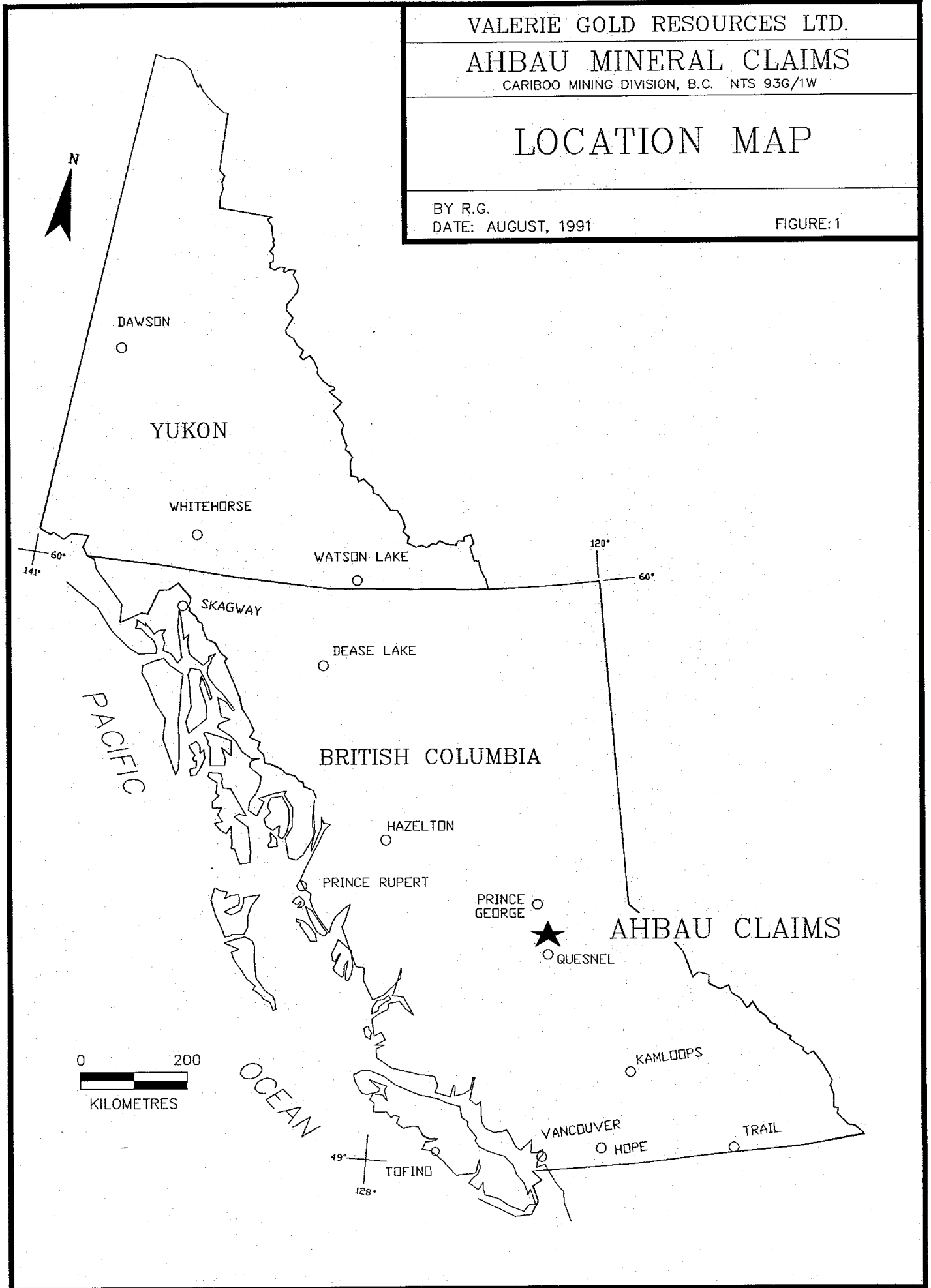
AHBAU MINERAL CLAIMS

CARIBOO MINING DIVISION, B.C. NTS 93G/1W

LOCATION MAP

BY R.G.  
DATE: AUGUST, 1991

FIGURE: 1



**1.2 PROPERTY STATUS:**

The Ahbau Creek property consists of 24 Modified Grid Claims totaling 464 claim units under option and a 20-unit Modified Grid Claim and 4 two-post claims held by staking.

Disposition of the claims is as follows:

<u>CLAIM NAME</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>ANNIVERSARY DATE</u>
G 2	20	3209	MARCH 13
G 5	20	3212	MARCH 16
G 8	20	3215	MARCH 16
G 9	20	3216	MARCH 16
G 10	20	3217	MARCH 16
G 11	20	3218	MARCH 16
G 14	20	3221	MARCH 16
G 15	20	3222	MARCH 16
G 17	10	3224	MARCH 16
G 22	20	3229	MARCH 16
G 23	20	3230	MARCH 16
G 24	20	3231	MARCH 13
G 25	20	3232	MARCH 13
G 26	20	3233	MARCH 13
G 27	20	3234	MARCH 16
G 28	20	3235	MARCH 13
G 29	20	3236	MARCH 16
G 30	20	3237	MARCH 16
G 31	20	3238	MARCH 13
G 32	20	3239	MARCH 13
G 33	20	3240	MARCH 16
G 34	20	3241	MARCH 16
G 36	14	3241	JUNE 15
G 38	20	3241	MARCH 16

<u>CLAIM NAME</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>ANNIVERSARY DATE</u>	
VAL	20	11079	MAY	3
V-1	1	11080	MAY	3
V-2	1	11081	MAY	3
V-3	1	11082	MAY	3
V-4	1	11083	MAY	3

The recorder holder of the 'G' claims is Appian Resources Ltd. which has agreed to assign fifty percent interest in all right, title and interest to the mineral claims to Valerie Resources Ltd. In order to maintain the option, Valerie is required by December 31, 1997, to incur expenditures for exploration or development upon or in relation to the Mineral Claims of \$750,000 in staged, escalating annual expenditures. Expenditures of \$30,000 is required by the end of 1991, followed by \$50,000 by the end of 1992, \$70,000 by the end of 1993, \$200,000 by the end of 1995, and \$200,000 by the end of the two remaining years.

### **1.3 PHYSIOGRAPHY, TOPOGRAPHY, AND GLACIATION:**

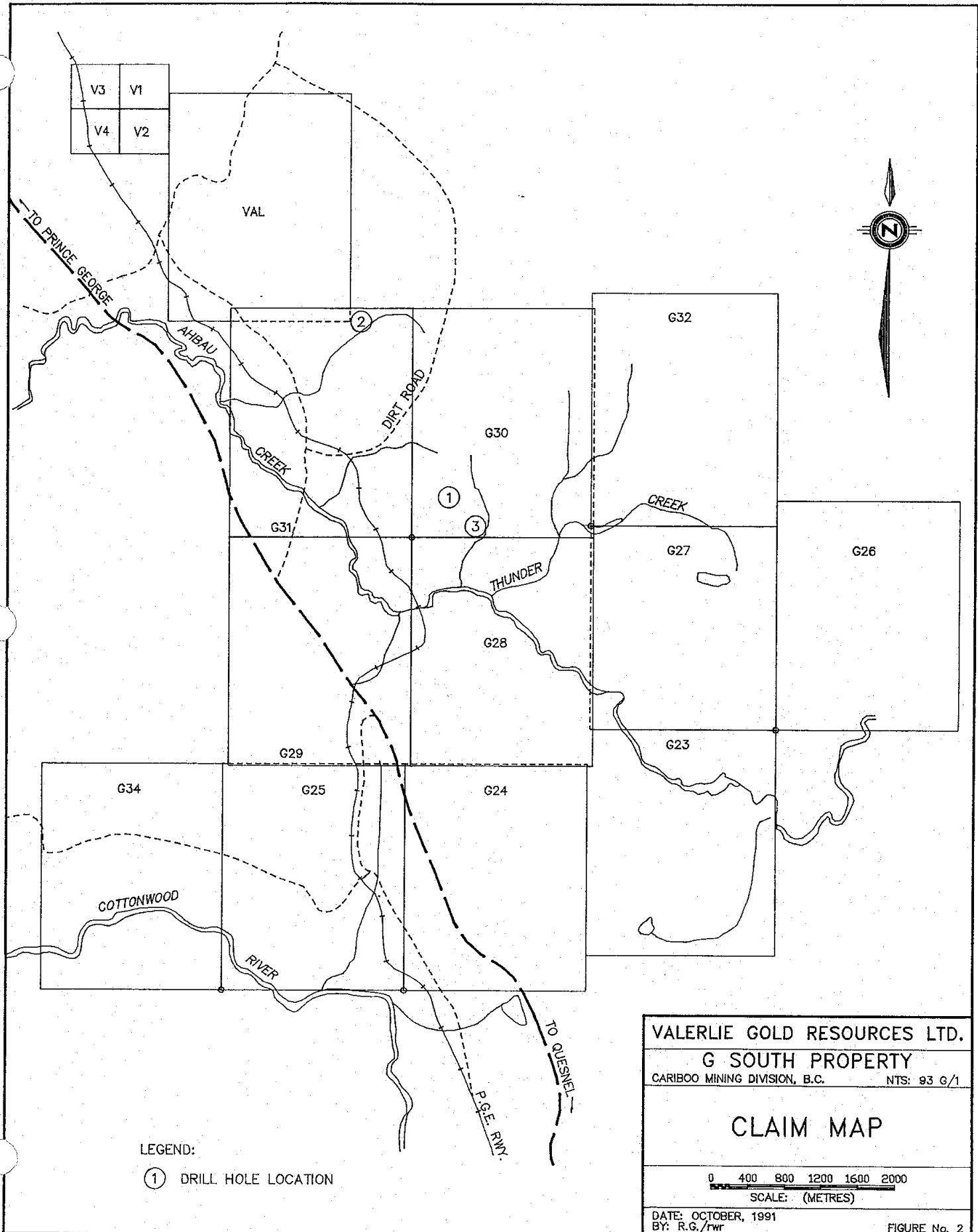
The property is located within the Interior Plateau. This area features gently rolling topography with elevations generally not exceeding 850 metres above sea level. The area is tree covered, except for logged areas, and all major drainages flow westward to the Fraser River.

The claims are characterized by moderately hilly topography to the east of Highway # 97 and generally flat lowlands to the west. The topography bears many distinct glacial features such as drumlins, both rock and till type, moraines, and eskers. These features, and the general drainage patterns, have a strong north-south orientation. According to Tipper (1961) the ice movement in this area was from the south to the north.

Glacial deposits of gravel, sand, and clay obscure bedrock over much of the area. The best outcrop exposures are confined to the hills east of the B.C. Rail line and in areas adjacent to deeply incised canyons. The thickness of the overburden varies greatly, from zero to 10 metres in the hilly areas to over 50 metres in the western lowlands.



V3	V1
V4	V2



LEGEND:  
 ① DRILL HOLE LOCATION

VALERLIE GOLD RESOURCES LTD.  
 G SOUTH PROPERTY  
 CARIBOO MINING DIVISION, B.C. NTS: 93 0/1

CLAIM MAP

0 400 800 1200 1600 2000  
 SCALE: (METRES)

DATE: OCTOBER, 1991  
 BY: R.G./rwr

FIGURE No. 2

#### 1.4 HISTORY:

In the immediate area surrounding the claims, early exploration concentrated on the development of placer gold deposits. Most of the area's major creeks have been worked by placer operations. Hixon Creek, 5 kilometres north of the property, was originally tested in the 1860's, coincident with the Cariboo Gold Rush. Gold bearing quartz veins along the Creek have been sporadically explored since the early 1900's. Limited production in the 1930's included 2250 tons yielding 206 ounces of gold and 224 ounces of silver.

In more recent years, exploration for porphyry copper and molybdenum has been conducted within and adjacent to some of the granitic intrusions in the general claim area.

In the late 1960's, claims were located north of Ahbau Creek in an area now covered by the present Ahbau property. In 1968 and 1969, Cariboo Minelands Ltd. (later Equatorial Resources Ltd.) explored for volcanogenic related massive sulphide mineralization. Exploration included bulldozer trenching, soil geochemistry and geophysical surveys, and 8 diamond-drill holes totalling approximately 1000 metres (3,000 feet). Texas Gulf Sulphur acquired the property and completed geological mapping, magnetic and electromagnetic surveys, and soil geochemistry prior to relinquishing the option. In 1972, Equatorial Resources drilled 5 percussion-drill holes totalling approximately 500 metres (1530 feet).

In 1980, the A.T. Syndicate conducted heavy mineral concentrate sampling of major drainages east of the Fraser River in areas with a history of previous gold production. Results of the survey led to staking of the present property which was optioned to Gabriel Resources Inc. (later Appian Resources).

In 1984, Gabriel Resources carried out additional heavy mineral concentrate sampling, soil and rock geochemistry, VLF-EM and magnetometer surveys, geological mapping, and backhoe trenching. In addition, an airborne geophysical survey (INPUT-EM and airborne magnetics) was conducted over the claims. In 1986, twenty line kilometres of I.P., centred over the area trenched in 1984, was completed over the Ahbau property. Using the geophysics grid for control, an area outlined as a chargeability anomaly was mapped geologically at a scale of 1:500.

In 1986 and 1987, two diamond drill programs, one totalling 1895 metres and the other totalling 2810 metres were completed. These programs were designed to test massive sulphide bearing fault zones. One fault zone, previously exposed by trenching, was roughly delineated by a fence of diamond-drill holes. Two other north-south trending, mineralized shear zones were also intersected by several drill holes. A low-level helicopter supported airborne geophysical survey was conducted over the

claim group. This was followed by an I.P survey and detailed geochemical surveying, and approximately 100 backhoe trenches. Following the ground surveys, a 6210 metres percussion drill program was initiated to test targets outlined in all previous exploration programs.

## 2.0 REGIONAL GEOLOGICAL SETTING AND MINERAL DEPOSITS:

The claims are situated within the Quesnel Trough, a subdivision of the Intermountain Tectonic Belt. The Quesnel Trough is a northwest trending belt extending north of Kamloops to northcentral British Columbia. It is comprised principally of Late Triassic to Early Jurassic Takla Group rocks. These rocks are composed primarily of basic to intermediate flows and pyroclastic volcanics plus argillaceous sedimentary rocks.

Takla Group rocks are intruded by coeval alkalic stocks and plugs and by earlier Cretaceous quartz monzonites and diorites of the Naver Intrusive suite. These rocks also intrude older layered rocks to the east.

Early Tertiary sediments and volcanics overlie older rocks along the Fraser River and its major tributaries.

In the Quesnel area, Takla rocks are in fault contact to the east with late Precambrian metasedimentary rocks and to the west with Paleozoic sediments and volcanics. The rocks are crosscut by lineaments with regional trends to the north and northwest.

Several styles of economic mineralization are recognized in the Trough. Copper-gold porphyry deposits are found in alkalic intrusive complexes. Apparently, stratabound gold deposits are hosted by propylitically altered, sedimentary and fragmental volcanic rocks marginal to small alkalic intrusions.

Limited production has come from gold-bearing quartz veins in schistose Takla rocks near Hixon (20 kilometres to the north). showings of molybdenum and tungsten mineralization occur near the margins of Early Cretaceous Naver Intrusions

Massive sulphide mineralization, with base and precious metal values, was found in previous exploration programs adjacent to Ahbau Creek.

### 3.0 DIAMOND DRILL PROGRAM:

In late June 1991, three diamond-drill holes totalling approximately 300 metres (984 feet) were drilled on the property by Core Enterprise Ltd. of Clinton B.C. All holes were drilled using NQ sized drill rods. All of the core was logged and split in half; one half retained in core boxes at the drill sites and the remaining material sent to Chemex Labs Ltd. in North Vancouver, B.C. for 31 element ICP analysis and standard fire assaying for gold. Drill logs and geochemical results are presented in the Appendix.

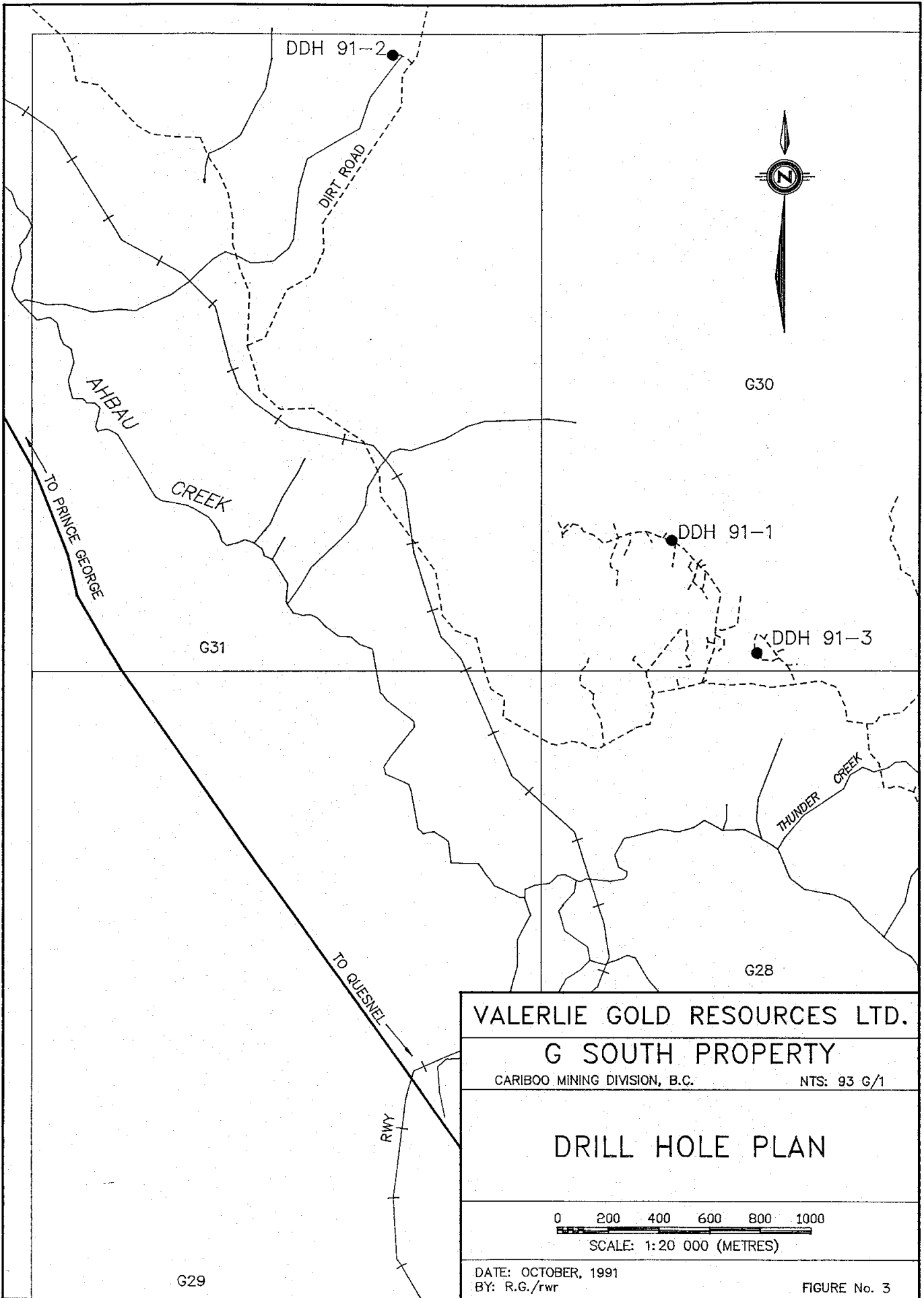
The drill program was designed to determine the stratigraphy and test the mineral distribution within a thick sequence of basic to acidic volcanics and overlying sediments. Figure 3 shows the drill site locations and Figures 4 to 6 a skematic sections of the holes.

Hole 91-1 tested a gold occurrence identified in a 1987 percussion drill hole. The hole was collared approximately 500 metres northwest of a massive sulphide showing identified in previous programs. Hole 91-1 intersected a rhythmically banded sequence of andesite, dacite, and sediments. Sulphides tended to be concentrated in the dacite units. Gold mineralization was encountered in several zones within the drill core. The highest value was from a 1.5 foot silicified dacite-fragmental which returned 0.16 oz/ton Au and 1.4% Cu. However, perhaps more important was a 20 foot intersection averaging 0.02 oz/ton Au in the upper portions of another dacite sequence and a sheared porphyry dyke in the bottom 10 feet of the hole which ran 0.023 oz/ton.

Hole 91-2 was to test a sedimentary sequence that caps the volcanics. The target was a coincident EM and high soil geochemical anomaly. The target lies within a zone that is traceable for several miles and is known to contain zinc and minor copper mineralization. The core returned anomalous values over its entire length (300 feet) with the highest value being 0.6% Zn over 10 feet.

Hole 91-3 tested a copper occurrence identified in a 1987 percussion drill hole. The hole was collared approximately 500 metres northwest of Hole 91-1. Hole 91-3 intersected massive andesite which is believed to overly the volcanic sequence found in Hole 91-1. Assaying of the core indicated anomalous copper and gold over most of its length. The best continuous section assayed 0.22% Cu and 0.004 oz/ton Au over 30 feet.

Results of the preliminary drill program are considered favourable and indicate that the property has a potential for hosting volcanogenic related mineralization.



VALERLIE GOLD RESOURCES LTD.

G SOUTH PROPERTY

CARIBOO MINING DIVISION, B.C.

NTS: 93 G/1

DRILL HOLE PLAN

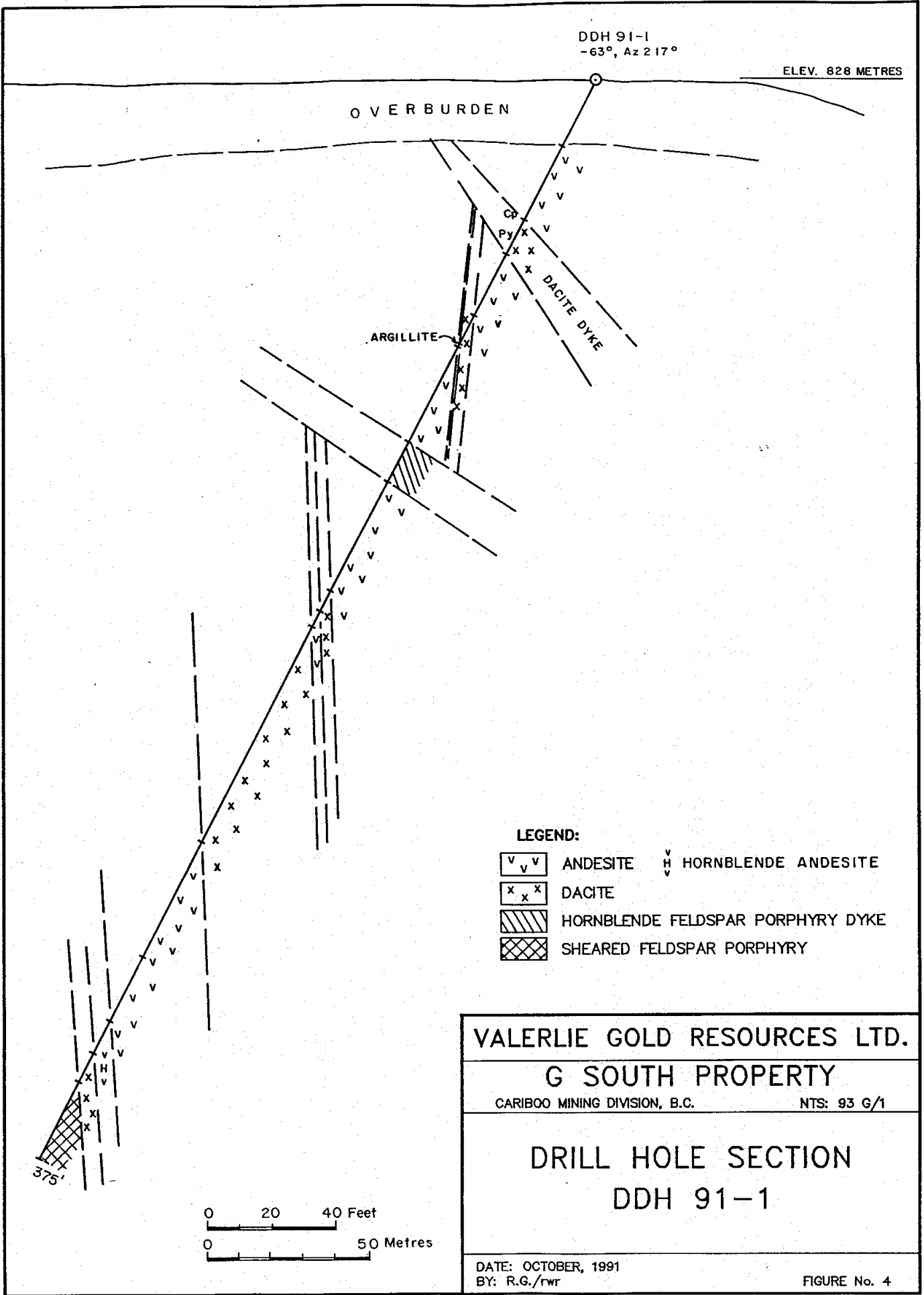
0 200 400 600 800 1000

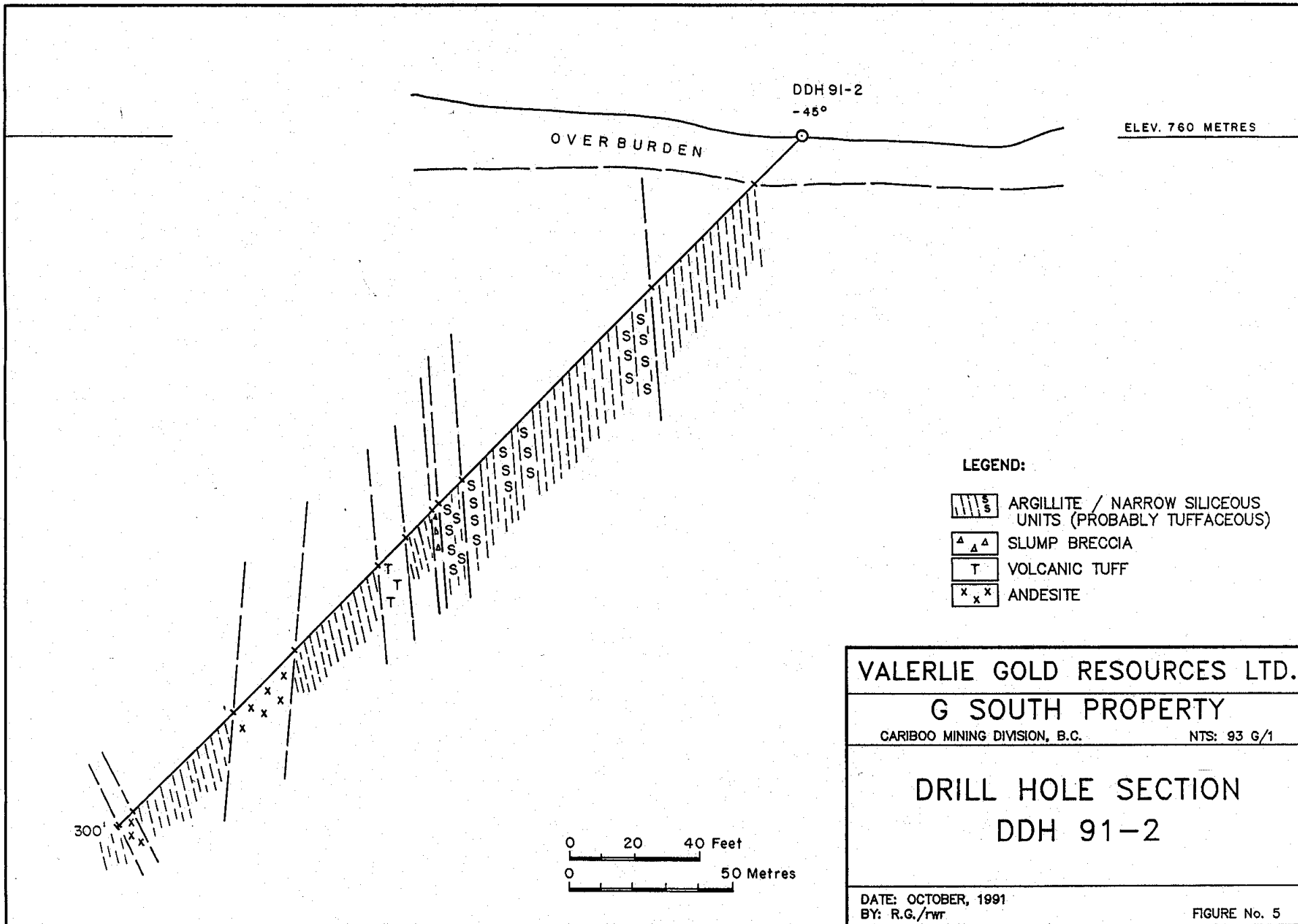
SCALE: 1:20 000 (METRES)

DATE: OCTOBER, 1991

BY: R.G./rwr

FIGURE No. 3









DDH 91-2  
-45°

ELEV. 760 METRES

OVERBURDEN

LEGEND:

-  ARGILLITE / NARROW SILICEOUS UNITS (PROBABLY TUFFACEOUS)
-  SLUMP BRECCIA
-  VOLCANIC TUFF
-  ANDESITE

VALERLIE GOLD RESOURCES LTD.

G SOUTH PROPERTY

CARIBOO MINING DIVISION, B.C.

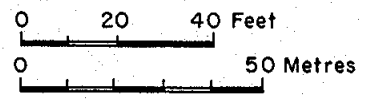
NTS: 93 G/1

DRILL HOLE SECTION

DDH 91-2

DATE: OCTOBER, 1991  
BY: R.G./rwr

FIGURE No. 5



300'



DDH 91-3  
-45°, Az 055°

ELEV. 730 METRES

OVERBURDEN

LEGEND:

- x x x ANDESITE
- xAx AMYGDALOIDAL ANDESITE
- xHx HORNBLLENDE ANDESITE
- 4 Δ BRECCIA

VALERLIE GOLD RESOURCES LTD.

G SOUTH PROPERTY

CARIBOO MINING DIVISION, B.C.

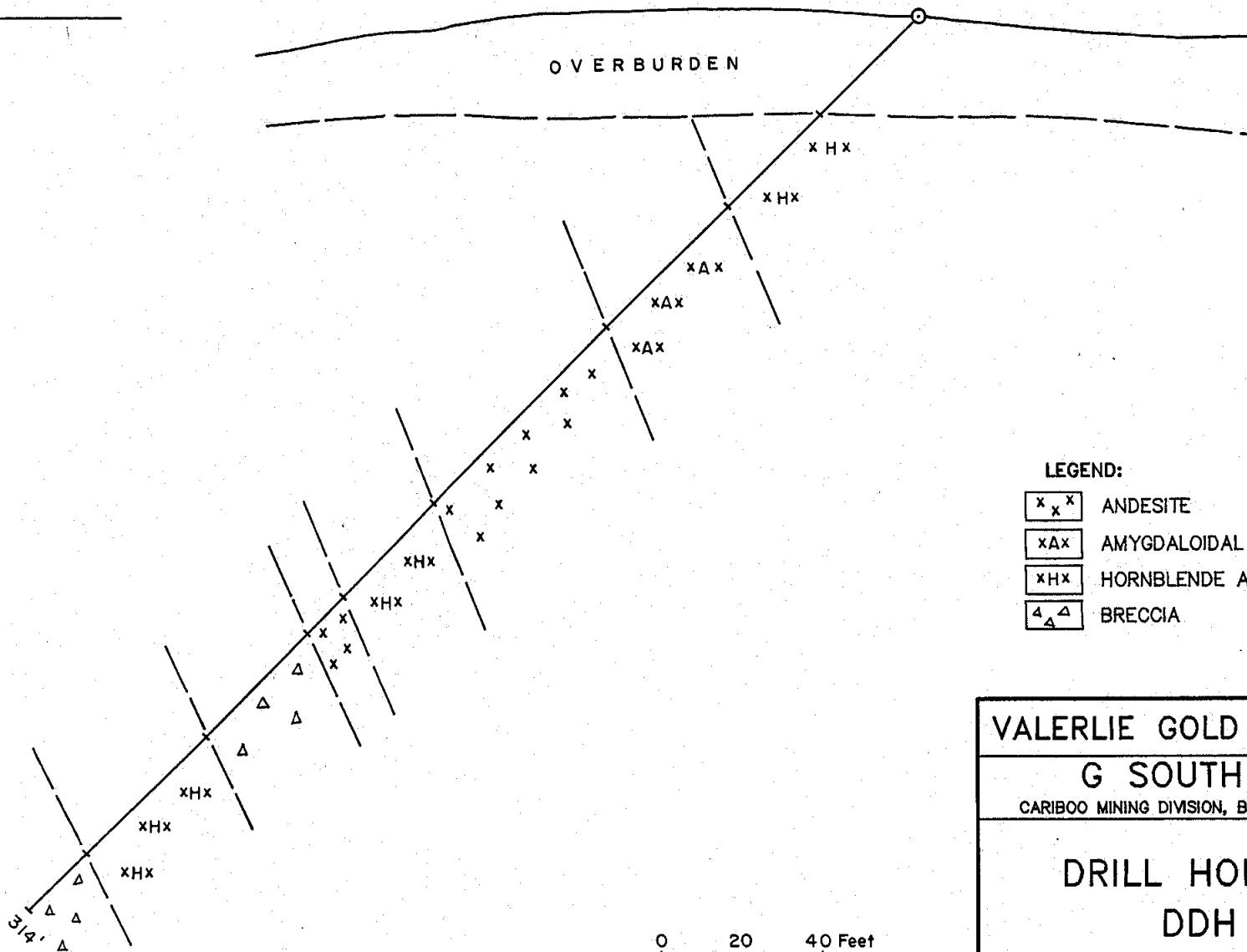
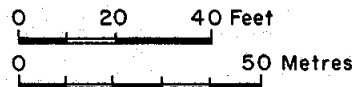
NTS: 93 G/1

DRILL HOLE SECTION

DDH 91-3

DATE: OCTOBER, 1991  
BY: R.G./rwr

FIGURE No. 6



**4.0 REFERENCES:**

Butterworth, B.P., Ridley, J.C., Troup, A., 1984; Report on the G-South Property, Cariboo Mining Division, Geology, Geophysics and Geochemistry: Private Report for Gabriel Resources Inc.

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Tipper, H.W., 1961; Prince George, British Columbia: Geological Survey of Canada, Map 49-1960

Tipper, H.W., Campbell, R.B., Taylor, G.C., Stott, D.F., 1979; Parsnip River, B.C.: Geological Survey of Canada, Map 1424A

Tomlinson, S., 1988; Geology report on the Ahbau Creek property, Cariboo Mining Division, British Columbia: Unpublished Assessment Report dated December 1988.

Troup, A., Freeze, J.C., Butterworth, B.P., 1985; Report on Ahbau Creek Property, Cariboo Mining Division, Geology, Geophysics, Geochemistry: Private Report for Gabriel Resources Inc.

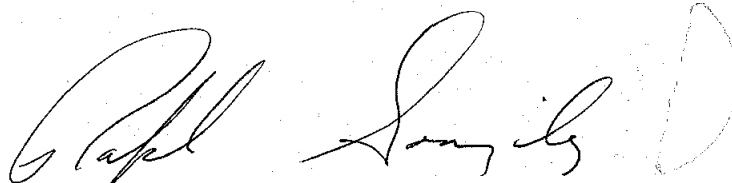
Walcott, P.E., and Associates, Jan. 1989; Report on Induced Polarization and Electromagnetic Survey, Ahbau Creek Property, Cariboo Mining Division, B.C.

**5.0 CERTIFICATE:**

I, **Ralph A. Gonzalez**, do hereby certify that:

1. I am a geologist and reside at 2784 Lawson Ave., West Vancouver, British Columbia.
2. I am a graduate of the University of New Mexico, U.S.A. with a B.Sc. in geology (1965) and a M.Sc. in geology (1968).
3. I have practiced my profession, since 1965, in Canada, North and South America, and Asia as indicated on the following page.
4. I am a Fellow in the Geological Association of Canada, Registration Number 4523.
5. I am a registered member of the Association of Professional Engineers of the Province of Manitoba, Registration Number 3970.
6. I have based this Assessment Report on work done by myself or under my supervision. I was physically on the property for the purpose of supervising the diamond drilling from June 18 to July 8, 1991. Information obtained from the Geological Survey of Canada, B.C. Dept. of Mines, and engineering reports and other support documents provided by Valerie and Appian Resources were also used as background and reference data.
7. I have no past or present, direct or indirect interest in any of the listed Mineral Claims or in any other property within the Cariboo Mining Division.

Dated at Vancouver, British Columbia, this 8th day of OCTOBER, 1991.



R.A. Gonzalez, M. Sc., P. Eng., F.G.A.C.

**7.0 STATEMENT OF QUALIFICATIONS:**

R.A. Gonzalez, M. Sc., P. Eng., F.G.A.C.

**ACADEMIC:**

1965 B.Sc. in Geology The University of New Mexico, USA.  
 1968 M.Sc. in Geology The University of New Mexico, USA.

**PROFESSIONAL:**

1984 Adder Exploration & Dev. Ltd. President  
 1983-1984 Archean Engineering Limited Overseas Manager  
 1980-1983 Placer Development Y Cia Ass't. Exploration  
 Ltd. (Chile) Manager  
 1977-1980 Consultant attached to the Ass't. Project Manager  
 Geol. Survey of Malaysia on a CIDA supported  
 mineral exploration  
 survey in Peninsular  
 Malaysia  
 1977 Registered with the  
 Association of Professional  
 Engineers of the Province  
 of Manitoba  
 1975-1977 Province of Manitoba Resident Geologist for  
 the Manitoba Dept. of  
 Mines  
 1971-1975 Giant Mascot Mines Ltd. Senior Geologist  
 1970-1971 New Jersey Zinc (Canada) Exploration Geologist  
 Ltd.  
 1968-1970 Anaconda American Brass Research Geologist  
 Ltd.  
 1965-1966 Mex-Tex Mining Co. (USA) Geologist

**APPENDIX A: DIAMOND DRILL LOGS AND ANALYTICAL REPORT:**

## DIAMOND DRILL RECORD

LOCATION: CENTRAL GRID (G 30 CLAIM) HOLE NO.: 91-1  
 AZIMUTH: 217° PROPERTY: G SOUTH  
 ELEVATION: 820 METRES CLAIM NO.: G-30  
 LENGTH: 375 FEET STARTED: JUNE 24, 1991  
 CORE SIZE: NQ COMPLETED: JUNE 28, 1991  
 LOGGED BY: R. GONZALEZ DIPS-COLLAR: -63°  
 CONTRACTOR: CORE ENTERPRISES LTD.  
 PURPOSE: HIGH GOLD IN PERCUSSION HOLE P87-41

SECTION (ft) FROM	TO	ROCK DESCRIPTION:	SECTION (ft) FROM	TO	ALTERATION -MINERALIZATION MINERALIZATION:
0	23	OVERBURDEN - No recovery			
23	49	Light green ANDESITE FLOW BRECCIA (LAHAR?) 28-32 ft. Black massive andesite with minor, local, fragments. Fractures @ 45° to C.A., density 6/metre. 32-35 ft. Fractures @ 0° C.A. 46-49 ft. Fractures @ 0° C.A. Core tends to break @ 0° C.A.	23	49	Chlorite and minor clay; however generally no alteration other than slight metamorphism.
			37.5	47.5	Pre-metamorphic fracture three metres wide-now represented by discontinuous pits filled with chlorite, plagioclase and minor blebs of chalcopyrite (Cp). Mineralization minor blebs of chalcopyrite. @ 45° C.A. 5 cm-10% Py in black sediment.
			47.5		
49	61	Light green siliceous unit FRAGMENTAL DACITE: The section may be overturned Cp at 50 ft. grading into Py with depth. ANDESITE/DACITE contact @ 70° to C.A. Massive unit with few fractures-density 2/metre @ 45° C.A. Lower contact @ 60° C.A.	50.5	52	3-5% chalcopyrite in 2-5 mm blebs and veins @ 30° C.A. Pyrite 4-8% rims (surrounds) Cp grains. Pale greenish-buff coloured alteration (SiO <sub>2</sub> ) and traces of chlorite. Pyrite content decreasing with depth.
61	82	Dark green ANDESITE. Discontinuous fractures at low angles to core with <1% pyrite on fracture surface.	61	82	Less than 1% pyrite in circular clusters or masses with chlorite within plane of fracture.
82	92	Light grayish-green DACITE. Contact @ 20° to C.A. Massive core w/ fractures density 2-3/ metre @ 50-60° to C.A.	82	92	Pyrite in wispy veins and in veins @ 45° to C.A. Py <1% usually in a selvage of grey green epidote and chlorite

SECTION (ft)		ROCK DESCRIPTION:	SECTION (ft)		ALTERATION -MINERALIZATION MINERALIZATION:
FROM	TO		FROM	TO	
92	93	Black, pyrite rich ARGILLITE: contact @ <10° C.A.	92	93	7 cm massive pyrite (>60%).
93	126	Dark green to black ANDESITE 116-117 ft. Dacite; lower contact fractured but appears to be high angle (?).	93	126	Traces of pyrite (<0.5%) as elongate clusters.
			120	120	7 cm massive pyrite (>60%).
126	140	FELDSPAR PORPHYRY DYKE: Dark greenish dyke with xls of plagioclase up to 1 cm long (c-axis). Groundmass of light greenish gray chlorite. Lower contact gradational			
140	178	Massive, dark-green ANDESITE locally porphyritic Fracture density: 1-2/metre 158-160 ft. Fractures @ 20° C.A. with CaCO3 along fracture plains - density 6/metre	144	145	FeOx along fractures @ 50° C.A. Clay alteration.
			153	153	1 cm vein of lCp @ 45° C.A.
			156	167	Yellowish-green chlorite-sericite alteration along original joints. Alteration usually 1-3 cm wide @ 40° C.A. and contains 2% Py and <1% Cp in veins 1-4 mm wide.
178	185	DACITE: Light gray green silicified with local sections showing minor fragments. Thin layer ~3 cm of black argillite marking lower contact @ 30° C.A.	179	185	Vein up to 1 cm true thickness of chlorite/sericite alteration with 2-4 mm veins of Cp and Py. Vein density 5-7 per metre.
185	190	ANDESITE: Dark green, massive with minor CaCO3 along fractures @ 20° C.A.			
190	265	DACITE: Olive coloured with greenish-yellow zones up to 8 cm of chlorite, epidote, sericite. Fragmental at depth. 238-245 ft. Brecciated dacite.	190	203	1-3% Py as disseminated clusters and veins @ 30-40° C.A.
			209	211	Intense alteration - chlorite & sericite with 1-3% Py & <1% Cp.
			215	216	Same as above
			217	229	Same as above
			239	245	Intense chlorite, epidote, sericite & clay alteration in a dacite fragmental.
			244	245	10-15% Py and 1-2% Cp in veins @ 60° C.A.
265	305	ANDESITE: Fine- to medium-grained dark-green massive andesite. 270-273 ft. Dacite with chlorite alteration and <1% Py fractured @ 30° C.A.	293	297	Calcite, Py, and yellow Sph in irregular veins ~1 cm wide @ 60° C.A.



SECTION (ft)		ROCK DESCRIPTION:	SECTION (ft)		ALTERATION -MINERALIZATION MINERALIZATION:
FROM	TO		FROM	TO	
305	328	ANDESITE: Medium-grained, dark green in colour. 317-320 ft. Fine-grained gray-green andesite. Lower contact gradational	305	328	Core soft showing high degree of chlorite alteration fragmentation, and jointing-density ~40 per metre. Calcite and Py along most fractures; fractures at low angle to core.
			311	312	2-4 mm calcite-shpalerite veins @ 30° C.A. Density 5-6 per metre
			319	321	Same as above
328	339	HORNBLLENDE ANDESITE: Coarse-grained andesite with horblende xls up to 1 cm long and represent ~10% of core 337-337.5 ft. dyke of fine-grained andesite contacts @ 20° C.A.	328	339	Veinlets of calcite @ 20° C.A. Density 10-12 per metre.
339	349	DACITE: Fine-grained light green dacite. Core fractured at 30-40° C.A.; density 5 per metre	340	349	0.5-1 cm veins of calcite and quartz @ 40° C.A.; 8-10 per metre. Minor Py as individual grains 2-4 mm across <0.5%.
349	375	SHEAR ZONE: Light gray to light green FELDSPAR PORPHYRY. Plagioclase xls up to 3 mm long in a glass like matrix. Core very hard (i.e. difficult to scratch), few sections of core longer than 10 cm.			
END OF HOLE					

LOCATION: NORTH GRID (G 31 CLAIM) HOLE NO.: 91-2  
 AZIMUTH: 210° PROPERTY: G SOUTH  
 ELEVATION: 760 METRES CLAIM NO.: G-31  
 LENGTH: 300 FEET STARTED: JUNE 29, 1991  
 CORE SIZE: NQ COMPLETED: JULY 3, 1991  
 LOGGED BY: R. GONZALEZ DIPS-COLLAR: -45°  
 CONTRACTOR: CORE ENTERPRISES LTD.  
 PURPOSE: TEST VLF-EM ANOMALY

SECTION (ft) FROM	TO	ROCK DESCRIPTION:	SECTION (ft) FROM	TO	ALTERATION -MINERALIZATION MINERALIZATION:
0	20	OVERBURDEN - No recovery			
20	66	BLACK ARGILLITE: 40% core recovery. Minor local graphite. Irregular veinlets 1-2 mm wide of calcite; density 2-3/m; 0.5-1% Py and tr. (<0.1%) Po along seams and fractures.			
66	149	BLACK ARGILLITE:  Badly broken ground to 149 ft. 66-78 ft. 100% recovery 78-81 ft. 15% recovery 81-84 ft. 70% recovery 84-87 ft. 60% recovery 87-128 ft. 90% recovery 128-140 ft. 50% recovery 128-149 ft. 90% recovery  71-73 ft. 80% siliceous tuff upper contact @ 70° contains irregular discontinuous veinlets of py 77-78 ft. Siliceous tuff			

SECTION (ft)		ROCK DESCRIPTION:	SECTION (ft)		ALTERATION -MINERALIZATION MINERALIZATION:
FROM	TO		FROM	TO	
			85	86	Calcite vein @ 10° to C.A.
			117	117	5 cm of brecciate Argillite cemented with quartz.
		123.5-127 ft. Siliceous tuff with 10% Argillite.	123		4 cm of brecciated Argillite cemented with calcite.
		131-135 ft. 60:40 Argillite:tuff			
		144 ft. fault with clay gouge			
		145-147 ft. volcanic tuff; lower contact @ 45° C.A.	145	147	Py/Po veinlets 1.2 mm wide @ 20-30° and density of 40/metre.
149	159	Mixed zone: ARGILLITE & TUFF with irregular veinlets of Qtz-Cc+Py and (or) Cc-Py @ 10-20° to C.A.			
159	162	Slump Feature (Lahare) of angular fragments of argillite and volcanic tuff.	160		5 cm vuggy quartz, plag and minor cc vein 6" long with 8-10 xls, 2-3 mm across, of sph and up to 0.5% py
162	174	Dark gray ARGILLITE	162	174	1-3 mm wide veins of Py along the outer edge of cc-chl veins @ 0-10° C.A. Calcite veinlets 1mm wide @ 80-90° C.A.
174	186	Gray, fine-grained massive VOLCANIC TUFF	174	186	Total sulphides 1-2%. Py as lens shaped masses and along fractures @ 0-10° C.A.

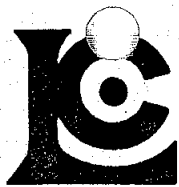
SECTION (ft)		ROCK DESCRIPTION:	SECTION (ft)		ALTERATION -MINERALIZATION
FROM	TO		FROM	TO	MINERALIZATION:
186	223	BLACK ARGILLITE: Broken core w/ 70% recovery. 193.5-198 ft. VOLCANIC TUFF; 204-207 ft. VOLCANIC TUFF: upper contact @ 20° C.A.: 214-216 ft. VOLCANIC TUFF upper contact @ 70° lower contact @ 40°; 216-218 ft. VOLCANIC TUFF upper contact @ 40° lower contact @ 40°.	186	200	1 mm wide cc veins @70° C.A. cc. also as discontinuous veins and represents 5% of ARGILLITE core.
			199		4 cm massive pyrite vein
223	249	f/g massive moderately magnetic GRAY ANDESITE 223.5-226 ft. VOLCANIC TUFF: upper contact @ 20° C.A. 228 ft. 15 cm VOLCANIC TUFF - contacts @ 20° C.A. 236 ft. 15 cm VOLCANIC TUFF - contacts @ 30° C.A. 237.5 ft. 8 cm VOLCANIC TUFF - contacts @ 40° C.A., also contains irregular fractures @ 30° and 45° C.A. with 1-2 mm Py veins. Fracture density 8-10/metre.	232		3mm greenish white Qtz. vein @ 45° with Py as selvage.
249	293	BLACK ARGILLITE: 269-272 ft. Chert with green chlorite on fractures @ 0° C.A. 283-288 ft. Chert with wispy Qtz veins	249	293	1-3 mm veins of Py @ 20-30° C.A. Density 12-15 per metre 5 mm Qtz vein @ 60° C.A. with Py and Sph.
			246		
293	299	Gray green ANDESITE:	293	299	1-2 mm irregulat veins with Py selvage 0.5 cm vuggy Qtz vein with 3% Py and 1% Sph.
			299		
299	300	Black ARGILLITE:			
END OF HOLE					

LOCATION: CENTRAL GRID (G 30 Claim) HOLE NO.: 91-3  
 AZIMUTH: 055° PROPERTY: G SOUTH  
 ELEVATION: 730 METRES CLAIM NO.: G-30  
 LENGTH: 314 FEET STARTED: JULY 3, 1991  
 CORE SIZE: NQ COMPLETED: JULY 7, 1991  
 LOGGED BY: R. GONZALEZ DIPS-COLLAR: -45°  
 CONTRACTOR: CORE ENTERPRISES LTD.  
 PURPOSE: TEST ANOMALOUS COPPER IN PERCUSSION DRILL HOLE P87-63

SECTION (ft)		ROCK DESCRIPTION:	SECTION (ft)		ALTERATION -MINERALIZATION
FROM	TO		FROM	TO	MINERALIZATION:
0	35	OVERBURDEN - No core recovery			
35	67	HORNBLLENDE ANDESITE: Dark gray-green adn coarse-grained. Hornblende from sub- to euhedral xls; fractures @ 40° C.A.; density 8-10 per metre.	35	67	1-2% Py which often forms as clusters or as disseminations
		53-54 ft. Dacite porphyry with 10% phenocrists of chlorite altered plagioclase up to 3 mm wide. 2% Py and Po as diss., subhedral xls 2-3 mm wide.	62	63	Two 0.5 cm calcite veins @ 20° and 30° C.A. healing brecciated andesite Py seams along veins.
67	110	Black, fine-grained AMYGDALOIDAL ANDESITE: fractured @ 45°; density 8-10 per metre.	67		2-3% Py and <0.5% Cp as clusters and amygdals with calcite and Qtz. Wispy, irregular, chlorite/calcite veinlets 1 mm wide; density 2-3% of core.
		82.5-83.5 ft. sheared rock.	96	110	2-3 % Py and 1-2% Cp increase in alteration with 1 cm Qtz veins and selvage of lchlorite extending 0.5 cm on each side. Veins @ 30-50° C.A.; density 10 per metre.
		88-89 ft. sheared rock.			
		103-105 ft. fractured @ 0° & 45° C.A. healed with calcite.			
110	171	Fine- to medium-grained grayish-green, massive ANDESITE: fractures @ 45° C.A. with density 5-8 per metre.	97	100	Chlorite alteration: core very soft.
			110		1% disseminated Py and discontinuous stringers 1-5 cm long.
					1-2 mm wide calcite vein with Py @ 40° C.A. and 2-3 per metre.
			150	164	<0.5% Py
			155	163.2	1-2% Cp
			151	153	Calcite and chlorite lined fractures @ 0° & 40° C.A.; density 4 per metre
			155	156	20% calcite veins @ 60-70° C.A.
			164		3-5% Py
			167	169	1% disseminated Cp

SECTION (ft)		ROCK DESCRIPTION:	SECTION (ft)		ALTERATION -MINERALIZATION MINERALIZATION:
FROM	TO		FROM	TO	
171	203	HORNBLLENDE ANDESITE: Greenish-gray coarse-grained with the mafic being totally altered to chlorite. 178 FT. 15 cm brecciated andesite with rounded fragments. 185-189 ft. Coarse-grained hornblende dyke-trace disseminated Py. 203 ft. Lower contact shattered	171	183	1% disseminated Py; 2-3 mm calcite veins @ 35° & 70° C.A. density 2 per metre. 1.5 cm calcite-Cp-Oy veins @ 40° C.A.
203	216	ANDESITE: Greenish massive andesite Lower two feet broken	203	216	1% Py in <1 mm wide veins @ 40° C.A.; density >40 per metre. Minor disseminated grains of Py and Cp
216	252	ANDESITE BRECCIA: fragments 1-3 cm in diameter	216	238	2-3% Py and <1% Cp. Intense epidote-chlorite alteration and calcite veins @ 0-10° C.A.
			247	248	Same as above
			248	250	2-3% disseminated Cp
252	294	HORNBLLENDE ANDESITE: Grayish-green, fine-grained barren of sulphides 291-294 ft. broken ground-light greenish colour	278	280	3 cm breccia zone filled with angular andesite fragments and 60% calcite-chlorite-epidote @ 0-10° C.A.
294	314	ANDESITE BRECCIA: Light greenish colour with 1-3 cm diameter fragments. Fractures @ 30° C.A. density, 2 per metre	294	314	Epidote-chlorite-calcite alteration; <0.1% disseminated Cp. 294-297 ft. patches of Cp but <0.25%

END OF HOLE DUE TO LACK OF AVAILABLE WATER



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 Invoice No. : 19117214  
 P.O. Number :

Project : VALERIE - G.SOUTH  
 Comments: ATTN: R. GONZALEZ

## CERTIFICATE OF ANALYSIS A9117214

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
91-1 022-030	205 272	< 5	< 0.2	2.14	10	30	< 0.5	< 2	1.83	1.5	16	43	46	3.15	10	< 1	0.13	< 10	1.13	600
91-1 030-040	205 272	< 5	< 0.2	3.96	20	90	< 0.5	< 2	1.28	< 0.5	20	103	110	6.85	10	< 1	0.65	< 10	2.10	1055
91-1 040-050	205 272	< 5	< 0.2	3.58	40	80	< 0.5	< 2	1.24	< 0.5	23	94	76	5.68	< 10	< 1	1.07	< 10	2.24	1020
91-1 050-060	205 272	385	3.0	1.93	80	50	< 0.5	< 2	2.01	1.5	69	29	695	5.77	< 10	< 1	0.60	< 10	1.10	1970
91-1 50.5-52	205 272	3860	72.0	1.70	135	30	< 0.5	< 20	2.68	23.0	180	101	>10000	13.70	< 10	< 1	0.20	< 10	0.77	3030
91-1 060-070	205 272	< 5	< 0.2	3.40	20	90	< 0.5	< 2	1.71	< 0.5	29	32	303	6.03	< 10	< 1	1.10	< 10	2.03	990
91-1 070-080	205 272	< 5	< 0.2	2.71	40	40	< 0.5	< 2	1.32	< 0.5	23	40	187	5.49	< 10	< 1	0.47	< 10	1.75	830
91-1 080-090	205 272	< 5	< 0.2	2.98	25	50	< 0.5	< 2	1.00	< 0.5	17	33	258	8.55	< 10	< 1	0.61	< 10	1.94	1180
91-1 090-100	205 272	< 5	< 0.2	3.14	80	40	< 0.5	< 2	0.97	< 0.5	27	38	314	12.00	< 10	< 1	0.59	< 10	2.08	1405
91-1 100-110	205 272	< 5	< 0.2	3.68	20	70	< 0.5	< 2	1.54	< 0.5	19	40	277	8.49	< 10	< 1	1.13	< 10	2.34	1260
91-1 110-120	205 272	< 5	< 0.2	2.92	10	20	< 0.5	< 2	1.40	< 0.5	21	31	187	7.27	< 10	< 1	0.36	< 10	2.02	1200
91-1 120-130	205 272	75	1.4	3.17	135	60	< 0.5	< 2	1.96	< 0.5	108	114	620	7.68	< 10	< 1	0.88	< 10	2.19	1465
91-1 130-140	205 272	30	< 0.2	2.74	25	100	< 0.5	< 2	1.55	< 0.5	19	82	71	4.45	10	< 1	1.20	< 10	1.85	865
91-1 140-150	205 272	< 5	< 0.2	2.61	15	60	< 0.5	< 2	1.60	< 0.5	25	30	122	5.47	10	1	0.70	< 10	1.60	1115
91-1 150-160	205 272	250	0.6	3.04	60	70	< 0.5	< 2	2.46	< 0.5	55	175	358	7.81	< 10	< 1	0.81	< 10	1.84	1580
91-1 160-170	205 272	< 5	< 0.2	3.54	50	80	< 0.5	< 2	2.20	< 0.5	36	31	138	6.28	10	< 1	1.20	< 10	1.78	1170
91-1 170-180	205 272	< 5	< 0.2	3.94	30	90	< 0.5	< 2	1.67	< 0.5	21	34	76	7.12	20	< 1	1.06	< 10	2.28	1375
91-1 180-190	205 272	< 5	< 0.2	3.23	30	50	< 0.5	< 2	2.12	< 0.5	20	29	77	5.67	10	< 1	0.79	< 10	1.79	1205
91-1 190-200	205 272	< 5	< 0.2	2.33	30	20	< 0.5	< 2	2.28	< 0.5	26	21	141	5.47	10	< 1	0.37	< 10	1.33	1105
91-1 200-210	205 272	< 5	0.6	2.48	25	40	< 0.5	< 2	1.88	< 0.5	23	17	320	5.02	10	< 1	0.92	< 10	1.28	985
91-1 210-220	205 272	35	0.6	2.40	20	50	< 0.5	< 2	1.74	< 0.5	23	33	213	5.69	< 10	< 1	0.52	< 10	1.36	1175
91-1 220-230	205 272	35	0.4	2.61	20	30	< 0.5	< 2	2.64	< 0.5	17	64	140	4.30	< 10	< 1	0.66	< 10	1.64	1230
91-1 230-240	205 272	500	< 0.2	3.11	70	40	< 0.5	< 2	2.38	< 0.5	28	172	141	4.56	10	< 1	1.00	< 10	2.08	1095
91-1 240-250	205 272	240	2.2	2.26	180	60	< 0.5	2	1.53	< 0.5	53	47	526	8.29	< 10	< 1	0.72	< 10	1.45	1520
91-1 250-260	205 272	< 5	< 0.2	3.29	25	60	< 0.5	< 2	1.91	< 0.5	23	27	64	6.41	10	< 1	0.76	< 10	2.02	1415
91-1 260-270	205 272	< 5	< 0.2	2.79	25	60	< 0.5	< 2	2.19	< 0.5	30	41	116	5.51	10	< 1	0.69	< 10	1.86	950
91-1 270-280	205 272	< 5	< 0.2	3.15	30	30	< 0.5	< 2	1.93	< 0.5	20	16	40	5.89	10	< 1	0.41	< 10	2.12	1305
91-1 280-290	205 272	< 5	0.6	3.34	35	40	< 0.5	< 2	2.41	0.5	25	13	146	5.85	10	1	0.51	< 10	2.17	1300
91-1 290-300	205 272	< 5	0.2	2.46	25	30	< 0.5	< 2	2.08	2.5	22	46	70	4.13	10	< 1	0.60	< 10	1.86	960
91-1 300-310	205 272	< 5	0.4	2.79	15	30	< 0.5	< 2	1.88	6.0	26	78	88	4.30	10	< 1	0.70	< 10	2.09	985
91-1 310-320	205 272	< 5	0.4	2.60	15	40	< 0.5	< 2	2.06	1.0	23	76	107	3.60	10	< 1	0.44	< 10	1.90	815
91-1 320-330	205 272	< 5	0.4	2.95	45	60	0.5	< 2	2.22	0.5	30	85	102	4.29	10	< 1	0.72	< 10	2.04	795
91-1 330-340	205 272	< 5	< 0.2	2.82	30	60	< 0.5	< 2	2.24	< 0.5	31	83	100	4.54	10	< 1	0.70	< 10	2.20	930
91-1 340-350	205 272	< 5	< 0.2	2.78	25	70	< 0.5	2	2.15	< 0.5	25	88	85	4.19	20	< 1	0.73	< 10	2.05	795
91-1 350-360	205 272	330	< 0.2	1.99	35	30	< 0.5	6	1.85	30.5	20	102	105	3.27	10	< 1	0.42	< 10	1.55	785
91-1 360-370	205 272	< 5	< 0.2	0.35	5	< 10	0.5	< 2	0.50	4.5	1	34	21	0.54	< 10	< 1	0.15	20	0.07	95
91-1 370-375	205 272	< 5	< 0.2	0.33	5	< 10	0.5	< 2	0.48	6.5	< 1	30	21	0.59	< 10	< 1	0.13	20	0.06	85

CERTIFICATION: *B. Coughlin*



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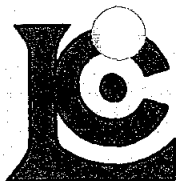
## CERTIFICATE OF ANALYSIS A9117214

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
91-1 022-030	205	272	< 1	0.13	14	1180	12	< 5	6	92	0.26	10	< 10	102	< 10	58
91-1 030-040	205	272	2	0.17	32	960	10	5	8	73	0.23	< 10	< 10	151	< 10	84
91-1 040-050	205	272	4	0.15	42	1060	6	5	5	69	0.14	< 10	< 10	143	< 10	76
91-1 050-060	205	272	3	0.03	23	1130	38	< 5	6	45	0.14	< 10	< 10	123	50	182
91-1 50.5-52	205	272	3	0.04	113	600	240	5	9	40	0.09	< 10	< 10	76	1150	1100
91-1 060-070	205	272	2	0.21	19	1290	22	< 5	5	94	0.24	< 10	< 10	158	< 10	116
91-1 070-080	205	272	3	0.11	20	1320	14	5	6	59	0.28	< 10	< 10	155	< 10	86
91-1 080-090	205	272	4	0.05	17	1310	12	10	11	30	0.25	< 10	< 10	183	< 10	96
91-1 090-100	205	272	8	0.05	20	1170	12	10	14	23	0.20	< 10	< 10	198	< 10	92
91-1 100-110	205	272	3	0.10	16	1310	12	5	12	53	0.23	< 10	< 10	201	< 10	114
91-1 110-120	205	272	3	0.05	16	1250	8	< 5	8	40	0.20	< 10	< 10	165	< 10	90
91-1 120-130	205	272	3	0.09	41	1140	6	5	8	67	0.23	< 10	< 10	135	< 10	112
91-1 130-140	205	272	2	0.15	25	1280	6	< 5	4	75	0.19	< 10	< 10	143	< 10	72
91-1 140-150	205	272	2	0.09	18	1350	8	5	5	50	0.20	< 10	< 10	150	< 10	88
91-1 150-160	205	272	2	0.08	49	1380	12	< 5	10	58	0.22	< 10	< 10	185	10	116
91-1 160-170	205	272	2	0.20	19	1280	14	5	7	87	0.35	< 10	< 10	160	10	90
91-1 170-180	205	272	2	0.13	19	1330	12	5	7	50	0.36	< 10	< 10	194	< 10	118
91-1 180-190	205	272	2	0.10	20	1300	6	5	6	40	0.29	< 10	< 10	152	< 10	88
91-1 190-200	205	272	2	0.06	21	1380	6	5	7	35	0.21	< 10	< 10	162	< 10	78
91-1 200-210	205	272	3	0.15	16	1350	8	5	6	70	0.29	< 10	< 10	150	< 10	72
91-1 210-220	205	272	2	0.05	17	1320	6	5	10	40	0.29	< 10	< 10	191	10	108
91-1 220-230	205	272	2	0.11	28	1140	4	5	7	71	0.29	< 10	< 10	130	< 10	98
91-1 230-240	205	272	< 1	0.15	76	1120	8	5	8	71	0.26	< 10	< 10	130	< 10	116
91-1 240-250	205	272	3	0.08	28	1140	10	5	13	42	0.14	< 10	< 10	152	20	124
91-1 250-260	205	272	2	0.10	17	1360	4	5	10	52	0.28	< 10	< 10	181	< 10	124
91-1 260-270	205	272	3	0.07	16	1520	8	5	5	60	0.23	< 10	< 10	154	< 10	94
91-1 270-280	205	272	2	0.07	14	1280	8	10	10	39	0.38	< 10	< 10	173	< 10	102
91-1 280-290	205	272	2	0.07	14	1430	14	5	9	49	0.35	< 10	< 10	178	< 10	146
91-1 290-300	205	272	2	0.06	21	1220	4	5	7	47	0.29	< 10	< 10	123	< 10	206
91-1 300-310	205	272	1	0.06	39	1250	20	5	9	54	0.29	< 10	< 10	127	< 10	226
91-1 310-320	205	272	2	0.08	38	1170	22	< 5	7	51	0.35	< 10	< 10	137	< 10	100
91-1 320-330	205	272	2	0.15	46	1220	12	5	5	77	0.31	< 10	< 10	139	< 10	90
91-1 330-340	205	272	1	0.14	42	1030	10	5	8	72	0.24	< 10	< 10	148	< 10	82
91-1 340-350	205	272	1	0.14	45	1180	2	5	6	86	0.39	< 10	< 10	163	< 10	68
91-1 350-360	205	272	2	0.09	68	580	22	5	4	55	0.21	< 10	< 10	95	< 10	1195
91-1 360-370	205	272	6	0.05	3	50	22	< 5	< 1	20	< 0.01	< 10	< 10	< 1	< 10	304
91-1 370-375	205	272	4	0.04	1	70	18	< 5	< 1	17	< 0.01	< 10	< 10	< 1	< 10	420

CERTIFICATION:

*B. Caplin*





# Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221

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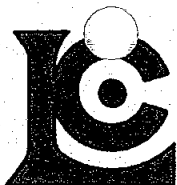
Project: VALERIE  
 Comments: CC: R. GONZALEZ

## CERTIFICATE OF ANALYSIS A9117552

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
91-2 020-040	205 294	10	2.2	2.29	20	200	< 0.5	< 2	1.42	17.5	13	300	180	3.91	10	3	0.54	10	1.17	760
91-2 040-060	205 294	15	3.4	1.84	40	120	< 0.5	< 2	3.58	17.5	11	175	240	2.96	10	< 1	0.36	20	0.85	680
91-2 060-070	205 294	5	0.6	1.45	30	70	< 0.5	< 2	2.54	5.0	11	62	77	3.08	10	2	0.14	10	0.63	570
91-2 070-080	205 294	< 5	0.8	2.62	55	80	< 0.5	< 2	2.75	9.5	9	59	92	3.13	10	1	0.15	10	0.59	425
91-2 080-090	205 294	< 5	2.2	2.05	120	140	< 0.5	< 2	2.62	52.5	10	71	145	2.93	10	< 1	0.13	10	0.76	360
91-2 090-100	205 294	10	1.8	2.10	150	60	< 0.5	< 2	1.55	101.5	10	106	251	2.58	10	9	0.24	10	0.57	225
91-2 100-110	205 294	< 5	0.4	2.35	175	70	< 0.5	< 2	1.99	52.0	11	111	148	3.19	10	8	0.26	10	0.64	255
91-2 110-120	205 294	< 5	< 0.2	1.86	115	80	< 0.5	< 2	1.91	9.5	11	71	76	3.38	10	< 1	0.25	10	0.76	280
91-2 120-130	205 294	< 5	0.2	2.35	20	130	< 0.5	< 2	3.64	3.5	12	75	103	4.21	10	< 1	0.42	20	1.13	545
91-2 130-140	205 294	< 5	0.6	2.07	80	110	< 0.5	< 2	1.39	30.5	11	123	139	2.92	10	6	0.31	10	0.85	280
91-2 140-150	205 294	10	< 0.2	1.68	40	170	< 0.5	< 2	1.35	11.5	14	79	101	4.01	< 10	3	0.19	10	0.78	475
91-2 150-160	205 294	15	< 0.2	3.24	60	210	< 0.5	< 2	1.73	10.0	27	268	102	4.67	10	1	0.63	10	2.35	720
91-2 160-170	205 294	10	< 0.2	3.69	40	590	< 0.5	< 2	3.08	27.5	26	227	106	3.99	10	1	0.53	10	1.56	635
91-2 170-180	205 294	15	0.6	2.37	20	110	< 0.5	< 2	1.30	7.5	22	103	111	4.92	10	2	0.33	10	1.06	370
91-2 180-190	205 294	< 5	0.4	2.81	< 5	110	< 0.5	< 2	2.05	< 0.5	20	49	174	4.96	10	< 1	0.17	10	1.25	355
91-2 190-200	205 294	< 5	< 0.2	2.31	55	70	< 0.5	< 2	1.86	5.5	21	87	143	5.05	10	< 1	0.18	10	0.81	285
91-2 200-210	205 294	15	< 0.2	1.87	60	160	< 0.5	< 2	1.69	13.5	22	113	133	4.10	10	6	0.28	10	0.83	275
91-2 210-220	205 294	10	< 0.2	2.32	35	70	< 0.5	< 2	2.86	37.0	10	100	92	3.61	10	1	0.18	10	0.62	485
91-2 220-230	205 294	< 5	0.2	2.15	20	130	< 0.5	< 2	1.60	5.0	11	79	92	3.31	10	< 1	0.28	10	0.77	215
91-2 230-240	205 294	10	0.4	2.39	85	360	< 0.5	< 2	1.95	39.0	14	197	160	3.69	10	7	0.42	10	1.16	430
91-2 240-250	205 294	5	0.6	2.50	35	190	< 0.5	< 2	2.01	15.5	13	101	141	3.27	10	1	0.21	10	0.62	270
91-2 250-260	205 294	25	1.0	2.17	25	270	< 0.5	< 2	0.75	8.0	15	177	179	4.71	< 10	< 1	0.44	10	1.09	555
91-2 260-270	205 294	20	1.2	1.80	30	240	< 0.5	< 2	0.72	< 0.5	11	127	104	3.15	< 10	< 1	0.49	10	1.13	680
91-2 270-280	205 294	10	0.4	1.89	15	230	< 0.5	< 2	1.10	< 0.5	11	95	87	2.48	10	< 1	0.43	10	1.05	675
91-2 280-290	205 294	15	0.6	1.99	< 5	280	< 0.5	< 2	1.99	3.0	12	76	108	3.20	10	< 1	0.27	10	0.78	745
91-2 290-300	205 294	10	0.2	1.80	10	200	< 0.5	< 2	2.32	4.0	20	60	147	4.64	< 10	< 1	0.22	10	0.67	520

CERTIFICATION:

*B. Coughlin*



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 Certificate Date: 16-JUL-91  
 Invoice No.: 19117552  
 P.O. Number:

Project: VALERIE  
 Comments: CC: R. GONZALEZ

## CERTIFICATE OF ANALYSIS A9117552

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
91-2 020-040	205 294	51	0.06	132	420	28	10	10	49	0.11	< 10	< 10	985	< 10	1035
91-2 040-060	205 294	58	0.05	117	360	10	35	7	68	0.05	< 10	< 10	686	< 10	1080
91-2 060-070	205 294	99	0.06	142	630	22	10	7	81	0.03	< 10	< 10	566	< 10	388
91-2 070-080	205 294	87	0.19	131	900	18	15	4	119	0.09	< 10	< 10	339	< 10	542
91-2 080-090	205 294	146	0.16	161	750	20	20	3	122	0.06	< 10	< 10	465	< 10	2860
91-2 090-100	205 294	209	0.23	237	430	12	20	4	92	0.10	< 10	< 10	1275	< 10	6030
91-2 100-110	205 294	171	0.21	210	570	10	15	6	108	0.11	< 10	< 10	1035	< 10	2990
91-2 110-120	205 294	158	0.13	207	660	14	5	6	79	0.07	< 10	< 10	372	< 10	632
91-2 120-130	205 294	118	0.12	153	880	10	10	8	91	0.08	< 10	< 10	252	< 10	366
91-2 130-140	205 294	150	0.14	214	540	18	< 5	6	122	0.10	< 10	10	1000	< 10	1970
91-2 140-150	205 294	87	0.11	116	820	16	< 5	6	113	0.13	< 10	< 10	583	< 10	822
91-2 150-160	205 294	65	0.15	223	760	18	10	8	175	0.20	< 10	< 10	473	< 10	836
91-2 160-170	205 294	49	0.26	224	950	2	10	5	244	0.17	< 10	< 10	438	< 10	1590
91-2 170-180	205 294	62	0.12	113	860	12	10	6	105	0.14	< 10	< 10	308	< 10	552
91-2 180-190	205 294	70	0.05	94	1030	30	< 5	9	279	0.09	< 10	< 10	146	< 10	134
91-2 190-200	205 294	122	0.11	205	760	14	10	7	109	0.13	< 10	< 10	594	< 10	450
91-2 200-210	205 294	99	0.09	205	730	10	5	6	125	0.13	< 10	< 10	905	< 10	932
91-2 210-220	205 294	107	0.12	145	750	16	5	5	118	0.11	< 10	< 10	567	< 10	2250
91-2 220-230	205 294	87	0.10	110	780	12	< 5	5	121	0.10	< 10	< 10	291	< 10	366
91-2 230-240	205 294	109	0.14	166	840	14	10	6	135	0.15	< 10	< 10	981	< 10	2190
91-2 240-250	205 294	90	0.15	146	780	18	10	5	198	0.14	< 10	< 10	593	< 10	978
91-2 250-260	205 294	29	0.09	137	300	26	10	8	302	0.09	< 10	< 10	547	< 10	656
91-2 260-270	205 294	4	0.10	100	260	20	< 5	8	108	0.07	< 10	< 10	149	< 10	152
91-2 270-280	205 294	1	0.09	67	260	22	< 5	7	135	0.08	< 10	< 10	85	< 10	132
91-2 280-290	205 294	< 1	0.09	63	1240	20	5	6	141	0.07	< 10	< 10	63	< 10	502
91-2 290-300	205 294	10	0.16	63	620	12	< 5	7	91	0.18	< 10	< 10	161	< 10	380

CERTIFICATION:

*B. Coughlin*



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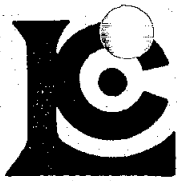
Project: VALERIE  
 Comments: CC: RALPH GONZALEZ

## CERTIFICATE OF ANALYSIS A9117733

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
91-3 35-45	205 294	55	< 0.2	3.96	10	240	< 0.5	4	1.07	< 0.5	20	48	130	9.37	20	< 1	2.98	10	2.72	510
91-3 45-55	205 294	180	< 0.2	3.11	15	190	< 0.5	< 2	2.18	< 0.5	28	67	136	6.42	20	< 1	1.70	10	2.32	765
91-3 55-65	205 294	160	< 0.2	2.77	10	100	< 0.5	< 2	2.59	< 0.5	27	69	234	7.16	20	1	1.22	10	2.10	990
91-3 65-75	205 294	20	< 0.2	3.17	25	140	< 0.5	< 2	1.23	< 0.5	20	51	255	9.47	20	< 1	1.86	< 10	2.48	870
91-3 75-85	205 294	40	3.2	2.48	20	130	< 0.5	4	2.25	< 0.5	32	50	1280	8.44	20	< 1	0.92	10	1.90	1325
91-3 85-95	205 294	10	< 0.2	2.97	< 5	180	< 0.5	< 2	1.55	< 0.5	20	55	542	9.56	20	< 1	1.65	< 10	2.41	860
91-3 95-105	205 294	25	< 0.2	3.04	220	180	< 0.5	< 2	0.58	< 0.5	33	57	291	10.45	20	< 1	1.92	< 10	2.51	590
91-3 105-115	205 294	15	< 0.2	3.17	15	160	< 0.5	< 2	1.20	< 0.5	17	56	224	9.72	20	< 1	2.07	< 10	2.57	650
91-3 115-125	205 294	100	< 0.2	2.95	30	150	< 0.5	< 2	1.33	< 0.5	24	91	248	9.16	20	< 1	1.73	< 10	2.27	605
91-3 125-135	205 294	10	< 0.2	2.47	< 5	110	< 0.5	< 2	0.84	< 0.5	26	43	340	8.44	20	< 1	1.59	< 10	1.79	515
91-3 135-145	205 294	10	< 0.2	2.90	25	110	< 0.5	< 2	1.28	< 0.5	19	53	228	7.86	20	< 1	1.53	10	1.94	550
91-3 145-155	205 294	15	< 0.2	2.89	170	90	< 0.5	< 2	1.81	< 0.5	19	40	368	7.94	20	1	1.47	10	1.94	800
91-3 155-165	205 294	145	6.2	1.52	2600	50	< 0.5	< 2	5.40	< 0.5	62	33	3940	7.53	20	2	0.58	10	1.12	1310
91-3 165-175	205 294	5	< 0.2	1.48	115	50	< 0.5	< 2	2.98	< 0.5	17	46	480	7.64	20	< 1	0.53	10	1.22	1050
91-3 175-185	205 294	145	4.2	1.59	1545	40	< 0.5	8	6.05	< 0.5	32	45	2200	6.41	30	< 1	0.39	10	1.22	1645
91-3 185-195	205 294	75	< 0.2	1.67	1135	70	< 0.5	8	1.85	< 0.5	92	54	501	13.20	20	< 1	0.51	< 10	1.51	1060
91-3 195-205	205 294	65	< 0.2	1.61	675	60	< 0.5	< 2	1.73	< 0.5	69	57	308	8.90	20	< 1	0.51	< 10	1.48	745
91-3 205-215	205 294	15	< 0.2	2.93	105	90	< 0.5	< 2	1.44	< 0.5	34	90	175	7.81	20	< 1	1.47	< 10	2.10	605
91-3 215-225	205 294	< 5	< 0.2	1.53	105	60	< 0.5	< 2	1.95	< 0.5	38	153	326	7.34	20	< 1	0.65	10	1.51	655
91-3 225-235	205 294	< 5	< 0.2	1.53	< 5	50	< 0.5	< 2	1.85	< 0.5	25	173	285	7.50	20	< 1	0.64	10	1.57	770
91-3 235-245	205 294	10	< 0.2	1.91	10	30	< 0.5	< 2	4.18	< 0.5	19	137	327	6.53	20	< 1	0.50	10	1.96	1340
91-3 245-255 A	205 294	215	4.6	2.09	20	50	< 0.5	6	4.22	< 0.5	17	82	1595	6.28	20	2	0.54	10	1.54	1280
91-3 245-255 B	205 294	< 5	0.2	3.21	< 5	100	< 0.5	< 2	3.72	< 0.5	8	92	350	6.14	30	< 1	1.56	10	2.28	1165
91-3 255-265	205 294	< 5	< 0.2	3.00	15	40	< 0.5	4	3.95	< 0.5	19	173	208	4.57	20	1	1.36	10	2.15	1070
91-3 275-285	205 294	< 5	< 0.2	3.10	15	50	< 0.5	< 2	2.77	< 0.5	17	125	47	5.42	20	< 1	1.46	< 10	2.23	1400
91-3 285-295	205 294	25	0.8	3.32	25	50	< 0.5	< 2	4.34	< 0.5	18	78	500	6.33	30	< 1	1.33	10	2.23	2050
91-3 295-305	205 294	< 5	1.0	2.19	5	30	< 0.5	< 2	4.49	< 0.5	10	152	515	4.99	20	< 1	0.54	10	2.06	1730
91-3 305-314	205 294	< 5	< 0.2	2.65	20	40	< 0.5	< 2	4.24	< 0.5	13	130	149	5.12	30	< 1	1.10	10	2.23	1815

CERTIFICATION: \_\_\_\_\_

*B. Cough*



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P.O. Number :

Project : VALERIE  
Comments: CC: RALPH GONZALEZ

## CERTIFICATE OF ANALYSIS A9117733

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
91-3 35-45	205 294	< 1	0.07	18	1540	< 2	5	15	49	0.35	< 10	< 10	260	< 10	26
91-3 45-55	205 294	16	0.06	18	1440	< 2	< 5	8	73	0.27	< 10	< 10	215	< 10	58
91-3 55-65	205 294	17	0.03	19	1390	8	< 5	13	63	0.24	< 10	< 10	230	< 10	62
91-3 65-75	205 294	< 1	0.01	22	980	24	< 5	17	29	0.27	< 10	< 10	259	< 10	84
91-3 75-85	205 294	< 1	< 0.01	28	950	14	< 5	13	50	0.19	< 10	< 10	215	< 10	128
91-3 85-95	205 294	< 1	< 0.01	22	920	26	< 5	18	36	0.25	< 10	< 10	250	< 10	82
91-3 95-105	205 294	< 1	< 0.01	26	950	14	< 5	18	16	0.20	< 10	< 10	252	< 10	28
91-3 105-115	205 294	< 1	0.01	22	940	12	< 5	17	20	0.23	< 10	< 10	246	< 10	24
91-3 115-125	205 294	< 1	0.03	25	1220	14	< 5	13	29	0.17	< 10	< 10	198	< 10	28
91-3 125-135	205 294	2	0.03	28	1180	12	< 5	13	25	0.15	< 10	< 10	193	< 10	32
91-3 135-145	205 294	2	0.10	21	1210	12	5	13	50	0.18	< 10	< 10	198	< 10	18
91-3 145-155	205 294	1	0.10	20	1300	14	< 5	14	51	0.13	< 10	< 10	211	< 10	22
91-3 155-165	205 294	2	0.02	34	1050	16	< 5	14	44	0.06	< 10	< 10	151	< 10	42
91-3 165-175	205 294	2	< 0.01	22	1170	18	5	13	28	0.10	< 10	< 10	157	< 10	24
91-3 175-185	205 294	< 1	< 0.01	26	1220	16	10	15	58	0.11	< 10	< 10	155	< 10	68
91-3 185-195	205 294	9	< 0.01	64	1270	20	5	15	28	0.17	< 10	< 10	175	< 10	32
91-3 195-205	205 294	2	< 0.01	32	1510	16	< 5	13	32	0.14	< 10	< 10	182	< 10	28
91-3 205-215	205 294	1	0.08	42	1110	2	< 5	15	43	0.23	< 10	< 10	211	< 10	42
91-3 215-225	205 294	< 1	0.02	64	820	8	< 5	14	31	0.17	< 10	< 10	147	< 10	38
91-3 225-235	205 294	1	0.01	86	760	22	< 5	16	29	0.16	< 10	< 10	154	< 10	42
91-3 235-245	205 294	1	0.02	59	1030	8	5	21	91	0.08	< 10	< 10	178	< 10	74
91-3 245-255 A	205 294	< 1	0.04	53	1160	2	5	10	74	0.22	< 10	< 10	164	< 10	136
91-3 245-255 B	205 294	< 1	0.08	28	1310	4	< 5	11	83	0.26	< 10	< 10	214	< 10	94
91-3 255-265	205 294	< 1	0.16	62	950	14	< 5	7	87	0.23	< 10	< 10	153	< 10	76
91-3 275-285	205 294	< 1	0.11	45	1030	12	< 5	8	66	0.26	< 10	< 10	168	< 10	98
91-3 285-295	205 294	< 1	0.08	27	1150	18	< 5	11	76	0.26	< 10	< 10	212	< 10	128
91-3 295-305	205 294	< 1	0.02	35	1600	< 2	5	8	107	0.14	< 10	< 10	134	< 10	104
91-3 305-314	205 294	< 1	0.05	42	1200	6	< 5	10	63	0.27	< 10	< 10	173	< 10	92

CERTIFICATION:

*B. Coughlin*

**APPENDIX B: COST STATEMENT**

7/23/91

**COST STATEMENT**

**Valarie Gold Resources Ltd.  
AHBAU Property**

**Diamond Drilling Project  
18 June - 8 July 1991**

FOOD & ACCOMMODATION 1 pers., 21 mdays @ \$83.38	\$	1,751.11
SUPPLIES		729.57
FUEL		370.99
SHIPMENTS		405.20
TELEPHONE		45.00
RENTALS:		
HLE Field Equipment 21 days @ \$10.70	\$	224.70
Adder 4wd Jimmy 21 days @ \$79.62		1,672.05
Arbor VLF/EM-16 1 day		<u>28.89</u>
		1,925.64
SALARIES & WAGES 1 pers., 21 days @ \$294.25		6,179.25
DIAMOND DRILLING - Core Enterprises Ltd.		
989 Feet @ \$18.33		18,127.41
ASSAYS & ANALYSES - Chemex Labs		
91 Core for AU & 32-element ICP @ \$17.83		1,622.50
1 Pulp for CU		7.49
CONSULTANT FEES:		
Adder Exploration & Development Ltd.		1,691.94
Archean Engineering Ltd.		347.75
REPORT PREPARATION		<u>1,388.50</u>
TOTAL COST	\$	<u>34,592.35</u>