

**DIAMOND DRILLING REPORT  
ON THE  
HOT SPRING PROPERTY  
SLOQUET CREEK AREA  
HARRISON LAKE REGION  
NEW WESTMINSTER MINING DIVISION  
BRITISH COLUMBIA**

122°21'W / 49°45'N  
NTS 92G/16W, 92G/9W

FEB 23 1998

Gold Commission Office  
Vancouver, B.C.

FOR

**MOUNT HOPE RESOURCES CORPORATION**

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25,430

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

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## SUMMARY

- 1) Mount Hope Resources Corp. owns 92 units, in 8 modified grid claims, which cover a precious and base metal prospect in the Sloquet Creek area of the south-western British Columbia. The property is situated 95 kilometres north-east of Vancouver and is accessible by logging road from either Pemberton or Harrison Mills.
- 2) Cominco Ltd staked the ground in 1944 and again in 1979 (now covered by the Hot Spring claims) and discovered several moderate to high base-metal soil anomalies. The anomalous zones received only limited follow-up evaluation. Aranlee Resources Ltd. carried out a program of geological mapping and geochemical sampling in 1987. This program was successful in extending the largest and most intense soil anomalies located by the previous operators. A grab sample of altered volcanics exposed on the south side of Simpson Creek returned 2560 ppb gold.
- 3) The property is underlain by a sequence of pyritic, felsic tuff and coarse fragmental rocks capped by ferruginous chert which totals more than 400 m thick. This lithological assemblage is correlative with the Gambier Group hosting the Britannia Copper Deposits, suggesting a favourable environment for exhalative massive sulphide deposits and related precious metal enriched stockworks and breccias. The Britannia Polymetallic Deposits are located 70 km to the west of the Hot Spring Claims.
- 4) The general area is characterised by north-westerly trending Tertiary age faults associated with gold mineralization. The Doctors Point and the RN gold deposit at the south-end of Harrison Lake are the most important nearby gold zones.
- 5) Follow-up geochemical and geological investigations were carried out in 1988 on the anomalous zones, as well as checking the more eastern and largely untested areas of the claims (Shearer, 1988). Two new showings containing galena and sphalerite mineralization were discovered. The 1988 work located soil anomalies that carried up to 180 ppb Au and 15.5 ppm Ag. Rock chip samples returned values up to 0.238 oz/ton gold and 15.73 oz/ton silver.
- 6) One of the most important mineralized area found in 1988, called Dan's Showing, is hosted by very altered cherty tuffite. This zone outcrops over a horizontal area of 55 metres by 35 metres and is covered on all sides. Vertically it is exposed through a height of 25 metres on the steep hillside. Hand trenching gave values of up to 0.238 oz/ton Au over 1 metre and 0.174 oz/ton over 2 metres. In a different area, one part of a trench gave 8 metres averaging 0.052 oz/ton Au. Narrow galena-sphalerite filled fault zones give up to 15 oz/ton Ag and 25% combined Pb/Zn over 1 metre (Shearer, 1988).
- 7) Aranlee optioned the property to Noranda in 1989. Work in 1990 consisted of 7 NQ diamond drillholes totalling 1251.9 metres of drilling on the southridge part of the Property. Hole NQ90-2 collared at 30+012N and 30+886E intersected 119m averaging 584 ppb Au. NQ90-4 intersected 615 ppb Au over 66.0 metres (Wilson, 1991). Only one hole (NQ90-7) tested the possible down dip extension of the mineralized zone but it encountered an up-faulted block of lower nodular dacite. Airborne geophysics (EM & Magnetics) and follow-up soil geochemistry were also completed (Wilson and Wong, 1990).

- 8) Mount Hope Resources Corp. carried out limited geological mapping, relogging of the 1990 core and diamond drilling in 1997 of 11 holes totalling 6,507.43 feet (1,983.49m) oriented at 060° Az and from -57° to -90° dips. The total drilling on the property (1990 & 1997) is now 3,235.39m (10,614.66 ft).
- 9) 1997 drill results suggest a partly intrusive-related mineralizing event as indicated by abundant epidote and molybdenum. The precious metal system, although low-grade as presently known is increasing in thickness (holes HS97-9 & 10) to the west. Elevated gold/silver values were encountered over a core length of 144 metres.
- 10) A large low-grade gold-bearing hydrothermal system is hosted by highly altered felsic volcanics on the Hot Spring Property. Anomalous values in gold in rock and soil have been found concentrated on the southridge area, and other zones throughout the Property. A systematic exploration program of continued petrology, road building, trenching and diamond drilling is recommended at a cost of \$440,000.00 to follow up targets west and south of the 1997 drillholes..

Respectfully submitted,

J.T. Shearer, M.Sc., P.Geo.  
January 26, 1998

## INTRODUCTION

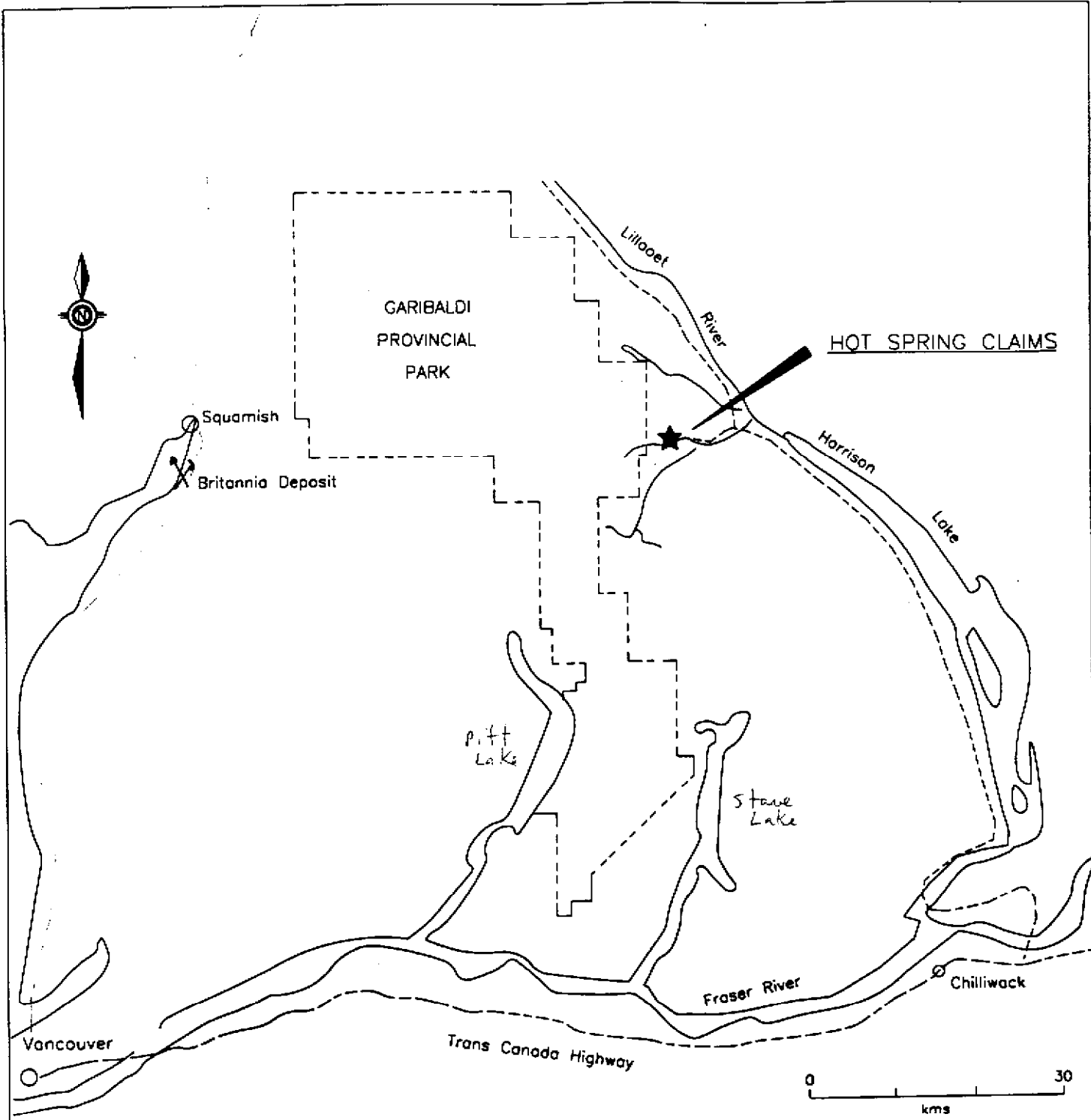
This report has been commissioned by S. E. Angus, President of Mount Hope Resources Corp. to summarize all available data on the Hot Spring Mineral Claims, document the 1997 drilling phase and propose an exploration program to further assess the base and precious metal potential of the property. A large amount of previous work has been carried out in the past by various operators

The large volcanogenic copper-gold deposits of the Britannia Camp which produced 55 million tons grading 1.1% Copper and 0.02 oz/ton gold (Payne et al, 1980) are hosted in Gambier group rocks 70 km directly west of the Hot Spring Property. The Hot Spring area is underlain by altered volcanics and metasediments of the Gambier Group.

The claim area has been explored for precious metal (Mackay, 1944) and base metal potential (Wojdak, 1980a), since the early 1940's. Detailed panning during 1944 and 1997 demonstrated that Sloquet Creek contains plentiful coarse, angular placer gold and that 75% of the placer gold can be traced to Simpson Creek (Mackay, 1944). Stream sediment, soil and rock sampling led to the discovery of several gold, lead, copper and zinc soil anomalies by Cominco (Freeze, A. C., 1986). A field program by Aranlee Resources Ltd. conducted in 1987 relocated those anomalies and was successful in extending the most intense anomaly previously located by Cominco Ltd. Prospecting in 1988 discovered two new important pyrite-sphalerite alteration zones high in gold values south of the previous work on Southridge. Subsequent trenching in November 1988 on this showing south of North Sloquet Creek (Dan's Showing) revealed an extensive area carrying important gold values (up to 0.276 oz/ton) in a wide area extending over 1000 metres to the east. Preliminary detailed mapping and sampling suggested a possible stratabound nature to the mineralization. Limited shallow diamond drilling conducted in 1990 by Noranda intersected 119m averaging 584 ppb gold in Hole NQ90-2 and NQ90-4 averaged 615 ppb gold over 66m., demonstrating that the zone enriched in gold is between 70 to 100 metres in true thickness. Only one hole (NQ90-7) tested the possible downdip extension of this low-grade mineralized zone but an up faulted section of the lower andesite was encountered in this hole.

Diamond drilling in 1997 was oriented at 060° to more thoroughly investigate the northwesterly-southeasterly structures which on relogging the 1990 drill core appeared to be important. The results of the 1997 diamond drilling indicate much higher grade values in gold and silver. An abundance of epidote and molybdenum was also encountered in the 1997 drilling.

Gold mineralization is related to Tertiary-age major faulting along the Harrison Lake Fracture Zone similar to the RN gold deposit at the south end of Harrison Lake and Doctors Point gold deposit.



<b>Mt. HOPE RESOURCES LTD.</b> <b>HOT SPRING PROPERTY</b>			
<b>LOCATION MAP</b>			
PROJECT NO. M254101	SCALE AS SHOWN	DATE DEC. 1998	FIGURE 1

## LOCATION AND ACCESS

The Hot Spring claims are located at 122° 21' W longitude and 49° 45' N latitude in the New Westminster Mining Division, approximately 95 air kilometres northeast of Vancouver and 15 kilometres west of the northern end of Harrison Lake (Figure 1). Garibaldi Provincial Park borders the property a short distance to the west.

The property is accessible by logging roads via either Pemberton and south along the Lillooet River Valley Road, or by road up the west side of Harrison Lake from Harrison Mills (at the Sasquatch Inn turn-off). A 9 kilometer two-wheel drive road accesses the east central boundary of the property by traveling from the Lillooet River westward along the north side of Sloquet Creek Valley. Access to the claims, from this point is by 4x4 truck on the logging road. Helicopter services are available at Agassiz or Pemberton.

Elevations on the property range from 1,500 to 4,500 feet above mean sea level (460m to 1,480m a.s.l.) (Figure 2). Slopes are steep with avalanche chutes and hazardous steep cliff areas. Thick growth of alder, devils club and alpine fir occur below altitudes of 4,500 feet (1,372m). Above this elevation the vegetation thins, and where the terrain flattens, ponds and swampy areas have developed.

The access road is currently variably maintained up to the bridge over Simpson Creek. Active logging and road building was taking place during 1997 on the lower southwest side of Sloquet Creek. Harvesting plans call for a new road up to the general area of the mineralized showings in preparation of future helicopter logging. A cut block of about 4,000 cubic metres of timber was felled in September/October 1997 immediately east of the drill area, but weather and market conditions precluded flying the timber out to the Simpson Creek Bridge staging area. The fallers for the logging company used the drill tote road put in by Mount Hope Resources Corp. for access to the cut block.

Locals refer to Sloquet Creek as "Spring Creek" since high temperature hot springs occur south of the claims on South Sloquet Creek which attracts determined visitors throughout the year. A major new, permanent steel and concrete bridge across Sloquet Creek giving access to the hot springs and South Sloquet was completed by Forestry in July 1997. This road could, in the future, give access to mineralized zones south of the 1997 drilling area.

Full bunk facilities and meals are available at the Lineham Logging Camp at the head of Harrison lake at a rate of \$50 per day. The Lineham crew is presently on a 10 day in/4 day out schedule. Lineham tracked hoe-excavator and dump trucks were used to open the old logging road on the claims.



## CLAIM STATUS

The property consists of eight contiguous Modified Grid System mineral claims held by location by the Mount Hope Resources Corp. as tabulated in Table I and illustrated on Figure 3.

Claim Name	Tenure Number	Number of Units	Size of Units	Location Date	Current Expiry Date	Registered Owner
Hot Springs 1	336395	6	3Nx2W	May 22, 1995	May 22, 2008 *	S. E. Angus **
Hot Springs 2	338135	12	3Sx4W	July 28, 1995	July 28, 2008 *	S. E. Angus
Hot Springs 3	338136	15	3Sx5W	July 28, 1995	July 28, 2008 *	J. T. Shearer
Hot Springs 4	347137	18	3Sx6W	May 22, 1996	May 22, 2008 *	J. T. Shearer
Hot Springs 5	346138	18	3Nx6W	May 22, 1996	May 22, 2008 *	S. E. Angus
Hot Springs 6	346139	12	2Sx6W	May 23, 1996	May 23, 2008 *	S. E. Angus
Hot Springs 7	349209	9	4Sx4W	Aug. 7, 1996	Aug. 7, 2008 *	S. E. Angus
Hot Springs 8	358340	2	1Sx2W	Aug. 11, 1997	Aug. 11, 2008 *	J.T. Shearer
Total		92 units				

\* with assessment work documented in this report.

\*\* Bill of sale executed in favour of Mount Hope Resources Corp.

Mineral title in British Columbia is acquired by locating claims in the proscribed manner as outlined in the MINERAL ACT and regulations. Title is maintained by filing appropriate assessment work in the amount of \$100 per unit for the first 3 years and \$200 per unit thereafter.

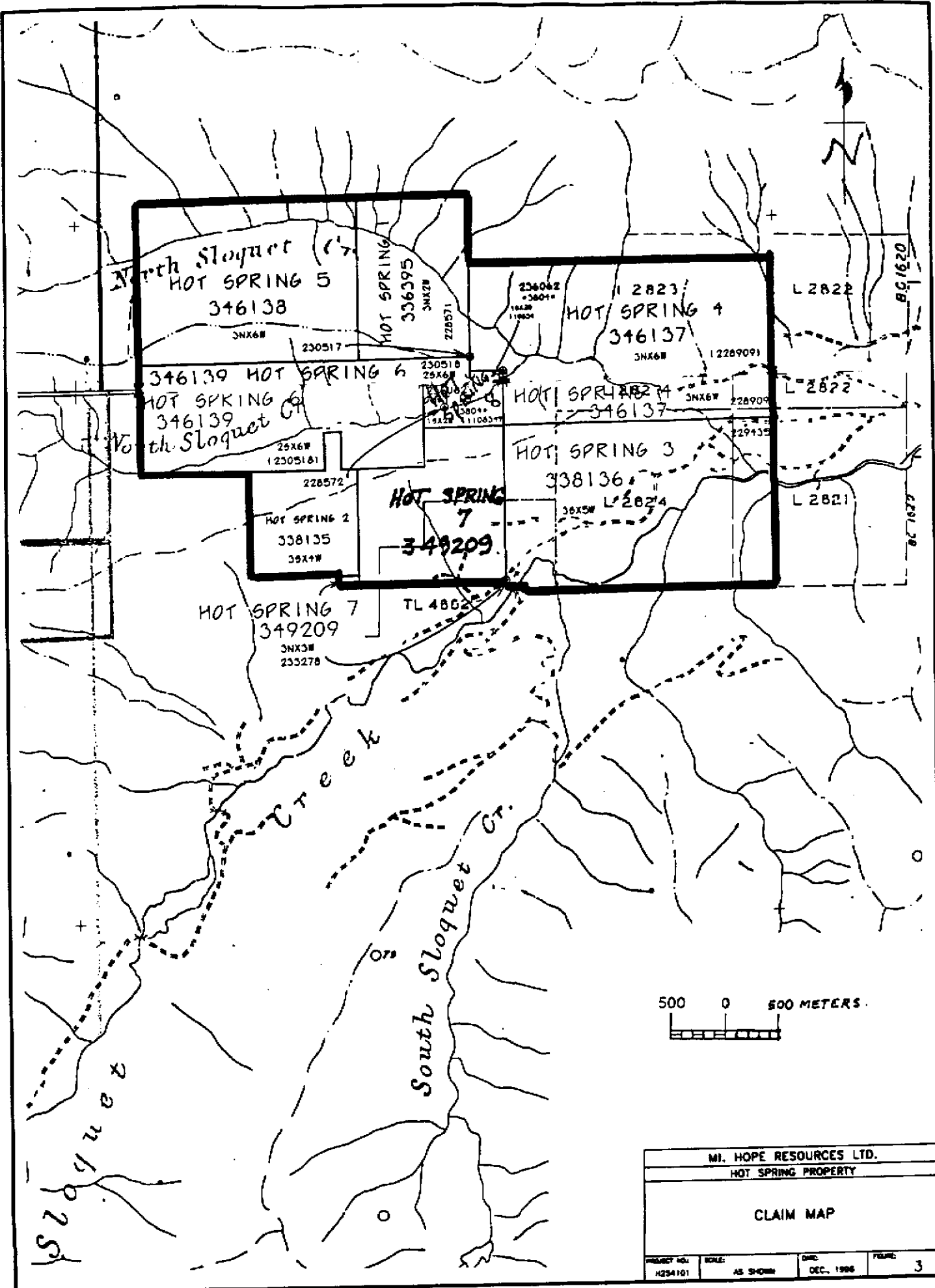
The Hot Spring Property was staked over a period of 3 years since the previous claims (Quiet Claims) lapsed at differing times.

The main logging road along South Sloquet Creek is scheduled to be re-constructed in 1997 by the B.C. Forest Service. This will open access to the southern part of the claim block and may allow access to the ridge top from the south. Logging in the past has taken place right up to the park boundary west of the Southridge showings.

The lower reaches of Sloquet Creek are Salmon-bearing, however, sampling by Wildlife officials in 1996 failed to indicate any salmon upstream from the eastern claim boundary. Two environmental reports were completed by SRR Consultants in 1997 to facilitate obtaining permits to re-open the old logging road.

## FIELD PROCEDURES

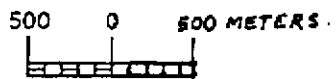
Prospecting and geological mapping was carried out over a part of the central ridge area with several days spent south of North Sloquet Creek. Several days were spent building trails through slide and washed out sections of the road. Diamond drilling was completed using a Boyles 37A mounted on skids. Core was logged and stored at a location 60 metres east of the collars of holes HS97-01,02 & 03. Drill logs (Appendix IV) were constructed by J. T. Shearer, M.Sc., P.Geol. and W. B. Lennan, P. Geol. Results were digitized and entered into the Gemcom P.C. Explore computer program.



North Sloquet Cr.  
 HOT SPRING 5  
 346138  
 JNX6W 230517  
 HOT SPRING 6  
 346139  
 HOT SPRING 6  
 346139  
 North Sloquet Cr.  
 25X6W 12305181  
 228572

236042  
 3601+  
 1828  
 118834  
 12823  
 HOT SPRING 4  
 346137  
 JNX6W 12289091  
 HOT SPRING 3  
 338136  
 L 2824  
 L 2821  
 HOT SPRING 7  
 349209  
 36X5W

HOT SPRING 7  
 349209  
 JNX5W 233278



MI. HOPE RESOURCES LTD.			
HOT SPRING PROPERTY			
CLAIM MAP			
PROJECT NO. H234101	SCALE AS SHOWN	DATE DEC., 1986	FIGURE 3

## EXPLORATION HISTORY

Recorded exploration activity within the immediate area has been conducted intermittently since the mid 1940's. North of Sloquet Creek in the Fire Lake-Fire Mountain Area, small scale gold production occurred in the 1920's and 1930's.

In 1944, the area was staked by prospectors working for Cominco Ltd. (MacKay, J. M., 1944). Their attention was focused towards this area after obtaining good gold indications from pannings of Sloquet Creek gravels. Over 75% of the gold was determined to be from gossanous cliffs in the Simpson Creek area. Prospecting in this area produced a chip sample of pyrite, galena and sphalerite bearing tuff that contained 0.16 oz/ton gold over six feet (1.8 metres) and also yielded a float rock sample containing quartz-sulfide stringers which assayed 0.94 oz/ton gold (MacKay, J. M., 1944). No further work was done at that time.

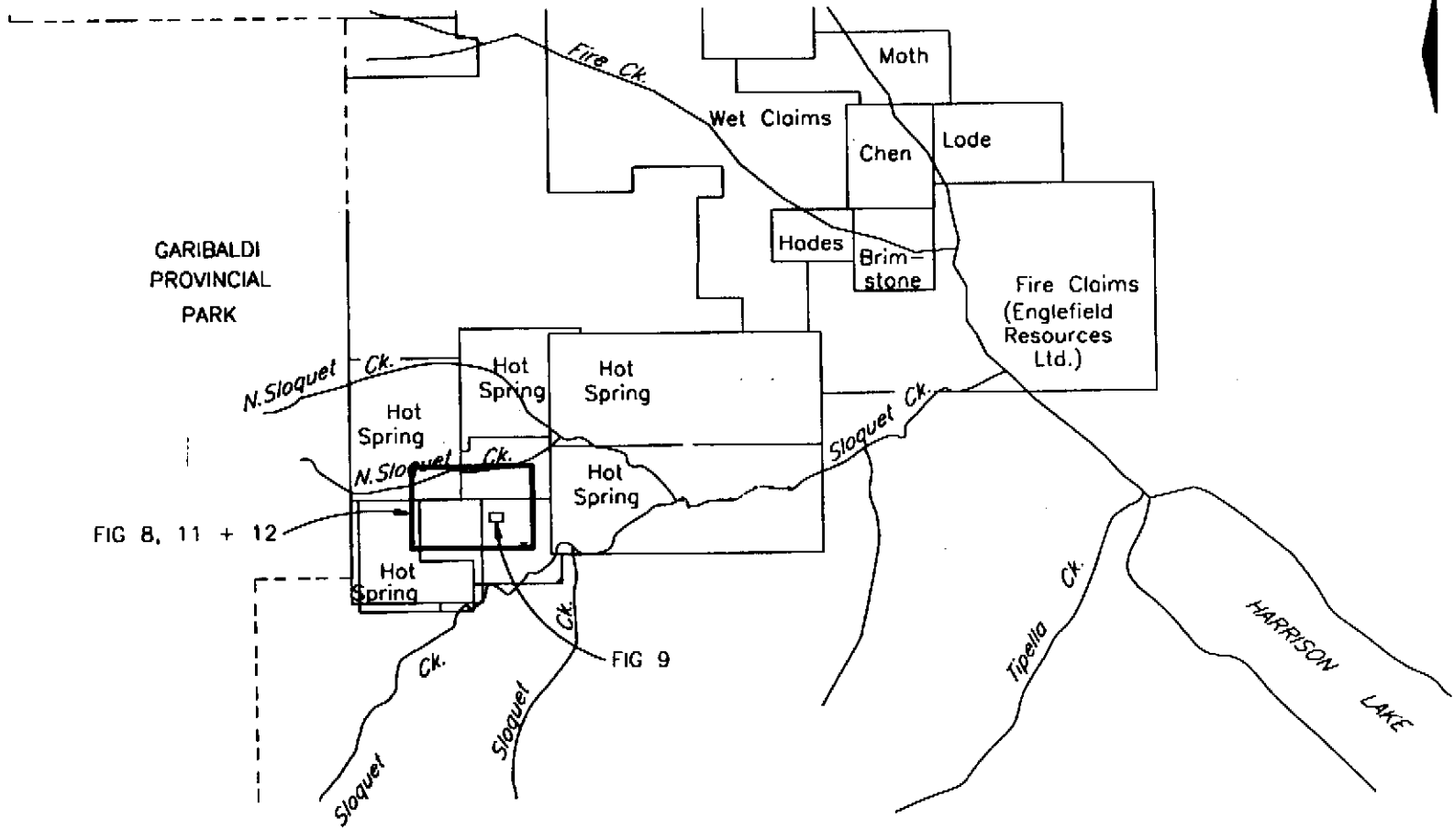
In 1975, the CL claim was located in the area north of Simpson Creek and was geologically mapped and sampled by M. McClaren and R. Dickinson. This work was performed for the Cyprus Anvil Corporation during 1976. The purpose of the exploration program was to assess the massive sulfide potential of the area. A pencil manuscript map at a scale of 1:1200 was constructed and was also used in the 1988 program.

In 1979, Cominco Ltd. staked the SLO claim group in the area now occupied by the Hot Spring claim group. Silt samples from this area gave anomalous precious and base metal values (Wojdak, P. J., 1980a). Cominco Ltd. completed a soil sampling survey in 1981 and located several precious and base metal soil anomalies. The best developed anomaly yielded values of up to 488 ppm Cu, 3600 ppm Pb, 3300 ppm Zn and extended 500 metres in length being open towards the west (Wojdak, P. J., 1980b).

In 1985, Cominco Ltd. attempted chip sampling traverses across a portion of cliffs located above and to the south of the best developed soil anomaly on the south side of Simpson Creek. This program employed experienced rock climbers and had a duration of three days. Thirty-five rock chip samples were collected; at least eight samples were anomalous in either copper, lead or zinc. Fourteen samples yielded silver values exceeding 7 ppm. Five samples yielded gold values exceeding 100 ppb. Best results were received from sample S-85-3 (155 ppm Cu, 12800 ppm Pb, 8440 ppm Zn, 162 ppm Ag, 392 ppb Au) and S857 (244 ppm Cu, 1186 ppm Pb, 578 ppm Zn, 17.6 ppm Ag, and 856 ppb Au)(Freeze, A. C., 1986).

The SLO claim group was allowed to lapse in October 1986. The area was partially restaked as the Quet 1 and 2 mineral claims on May, 1987 by W. Chase. Aranlee Resources Ltd. optioned the Quet 1 and 2 mineral claims in October, 1987 and staked the contiguous Quet 3 and 4 mineral claims in November, 1987. A small exploration program was conducted during November of 1987 by Aranlee Resources. This work confirmed the presence of the Cominco soil anomalies and extended some of the more significant ones (McClaren and Hill, 1987). In 1988, follow-up sampling, prospecting and geological mapping was completed. Cobra drilling and blasting was used to trench the most promising showings (Shearer, 1988).

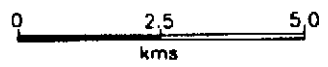
The claim situation was complicated with overlaps in the area since some previous claims were removed from the Government maps while they were still in good standing.



GARIBALDI  
PROVINCIAL  
PARK

FIG 8, 11 + 12

FIG 9



MT. HOPE RESOURCES LTD.			
HOT SPRING PROPERTY			
INDEX MAP			
PROJECT NO.	SCALE	DATE	PAGE
M254181	AS SHOWN	DEC. 1998	6

Aranlee Resources Ltd. optioned the property to Noranda in 1989. Work in 1990 consisted of 7 NQ diamond drillholes totalling 1251.9 metres on the Southridge part of the property. Hole NQ90-2 intersected 119m averaging 584 ppb Au, NQ90-4 intersected 615 ppb Au (Wilson, 1991). Only one hole (NQ90-7) tested the possible down drop extension of the mineralized zones but it encountered an up-faulted block of lower andesite. Airborne geophysics and follow-up soil geochemistry were also completed (Wilson and Wong, 1990).

In 1995 and 1996, the area was acquired by S.E. Angus, J. T. Shearer and A. E. Angus. Mount Hope Resources Corp. purchased the claims and completed follow-up geological mapping, relogging of the 1990 drillcore, extensive stream sediment panning, prospecting and diamond drilling 11 holes totalling 6,001 feet (        m). The access road from the new concrete bridge over Sloquet Creek was rehabilitated in close consultation with the Ministry of Environment and Forest Service.

## REGIONAL GEOLOGY

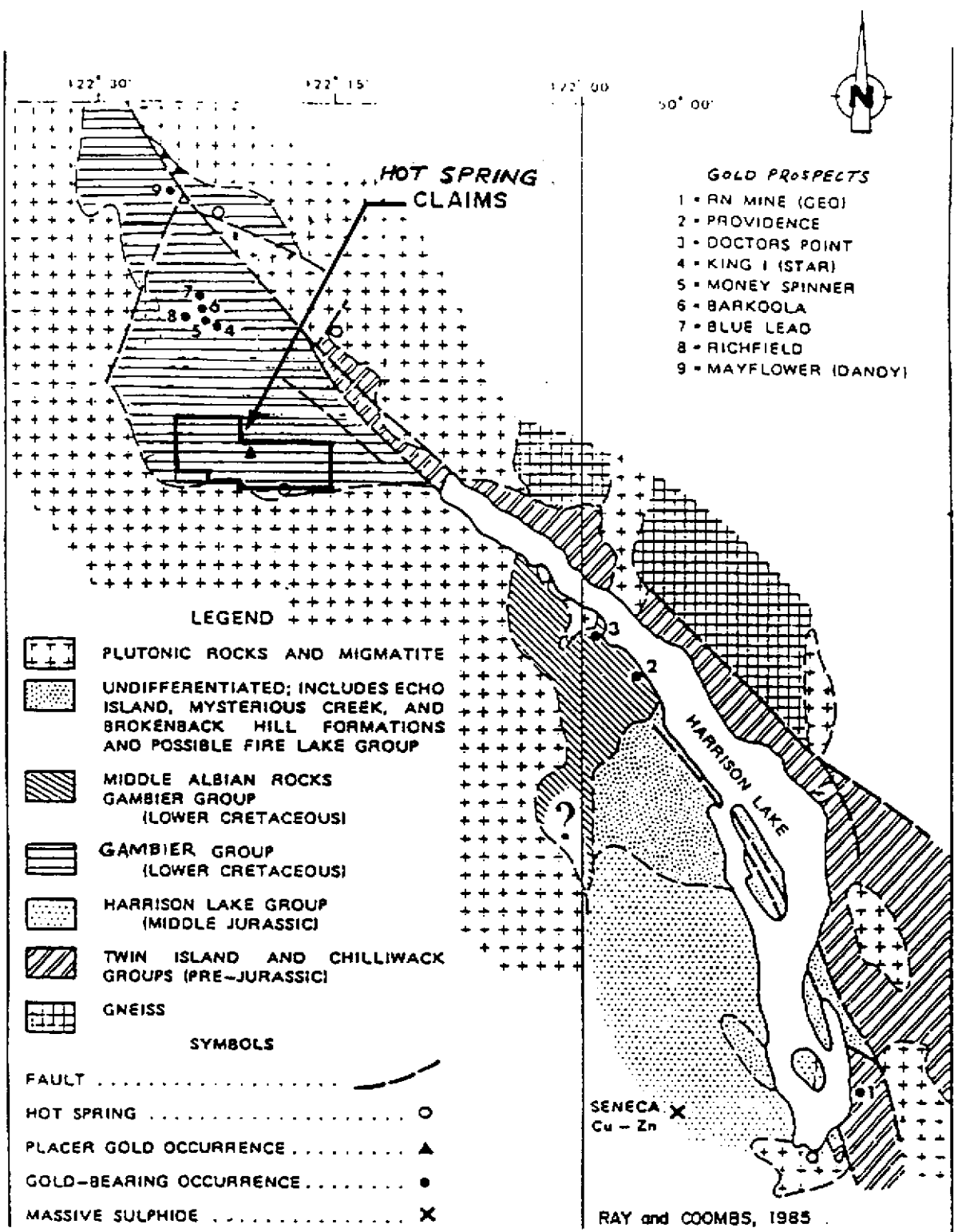
The earliest reported geological mapping of the North Harrison Lake area was of the Vancouver North Map Area by J. E. Armstrong and J. A. Roddick contained in G.S.C. Memoir 335: Vancouver North, Coquitlam, and Pitt Lake Map Areas, B.C., (Figure 4). More recent mapping by J. M. Journeay, L. Csontos and J.V.G. Lynch from 1988 to 1989 have detailed the geology of North Harrison Lake area which includes the Hot Spring Property. A recently published Open File (O.F. #2203) by the British Columbia Department of Mines summarizes the results of that mapping, (Figure 5).

The Coast Belt of Southern British Columbia records a complex history of deformation, metamorphism and igneous activity that can be linked, in part, to progressive shortening and transcurrent displacements along the continental margin of North America since Early Cretaceous time that may be associated with eastward subduction of oceanic lithosphere.

Gambier Group rocks underlie the Hot Spring property and represent an island arc depositional environment. Included is the Peninsula Formation, a basal, fining upward sedimentary sequence of subaqueous autoclastic and epiclastic rocks which are mainly intermediate in composition (Roddick, J. A., 1965). These rocks are correlative on a lithological basis with the Gambier Group that lies 40 air miles (70 kilometres) to the west of the Hot Spring property. The argillaceous middle member along Harrison Lake is equivalent to the Britannia Formation of the Gambier Group (Roddick, J. A., 1965, pg. 42). The Britannia Formation hosts the Britannia Mine, a copper-zinc-gold felsic volcanogenic massive sulfide deposit of the Kuroko-type (55 million tons grading 1.1% Cu, 0.65% Zn, 0.2 oz/ton Ag and 0.02 oz/ton Au) (Payne et al., 1980).

Two phases of thrusting related to Late Cretaceous oblique convergence along the continental margin and Tertiary dextral/normal dip-slip faulting are the major structural events. Metamorphism to greenschist grade or lower has also occurred within the Gambier Group rocks. The metamorphic grade of the Gambier Group rocks seldom exceeds lower greenschist facies, except in the vicinity of intrusions, where migmatization occurs.

The Harrison Lake Shear Zone is recognized (Journeay, 1989) (Ray, 1986) to be an important structure in localizing economic gold deposits within Southwest British Columbia. This gold belt, which includes the Hot Spring property is associated primarily with brittle fault systems along the western margin of the Shear zone, and is offset to the north by younger northeast-striking transcurrent faults. These northeast-striking transcurrent faults may also be important structures in controlling the emplacement of epizonal Late Tertiary plutons and in tapping associated hydrothermal systems. These transcurrent faults may be providing the necessary structural control for localizing economic concentrations of both base and precious metals within the region.



MT. HOPE RESOURCES LTD.			
HOT SPRING PROPERTY			
REGIONAL GEOLOGY			
PROJECT NO. M254101	SCALE AS SHOWN	DATE DEC. 1988	FOLIO 4

## PROPERTY GEOLOGY and MINERALIZATION

The geology of the central portion of the Hot Spring property is shown on Figure 6. The area is predominantly underlain by a mixed assemblage of felsic tuffaceous and fragmental rocks which display evidence of explosive felsic volcanism and contain clasts of laminated pyrite. These rocks interfinger with andesite flows and dykes.

Past geological mapping at the scales of 1:1,000 for the detailed grid and 1:2,500 for the reconnaissance grid was completed on the area referred to as the "Southridge Zone". The following is a summary of the lithological units noted during the course of prospecting and mapping in 1997.

### Unit 6: Biotite-Hornblende Diorite

An unaltered, medium to fine grained, equigranular rock containing 10-15% biotite-hornblende crystals, 57-80% plagioclase crystals and 10% anhedral quartz. The rock has a light grey salt and pepper appearance and often has xenoliths of andesite near it's contacts.

This intrusive is extensively exposed in the southwest of the Southridge map area (Figure 8) together with a small stock mapped in the area 31+100E to 31+400E from 29+600N to 29+800N. Airborne magnetometer results suggest a larger near surface component to the stock than actually mapped on surface.

### Unit 5A: Andesite Dykes/Sills?

A dark green to greenish black rock, variably porphyritic with feldspar phenocrysts, massive, undifferentiated with extensive chlorite alteration and lesser epidote alteration. The dykes cut all lithologies (except diorite) at a north to north-west direction with mainly sharp contacts.

Pyrite is ubiquitous, occurring as fine disseminations from 1 to 15%, and often coats fracture surfaces. The rock is moderately to strongly magnetic. At some locations it is possible that these andesites (or intermediate tuffs) are conformable to bedding and may be sills. This unit is seen commonly throughout the property.

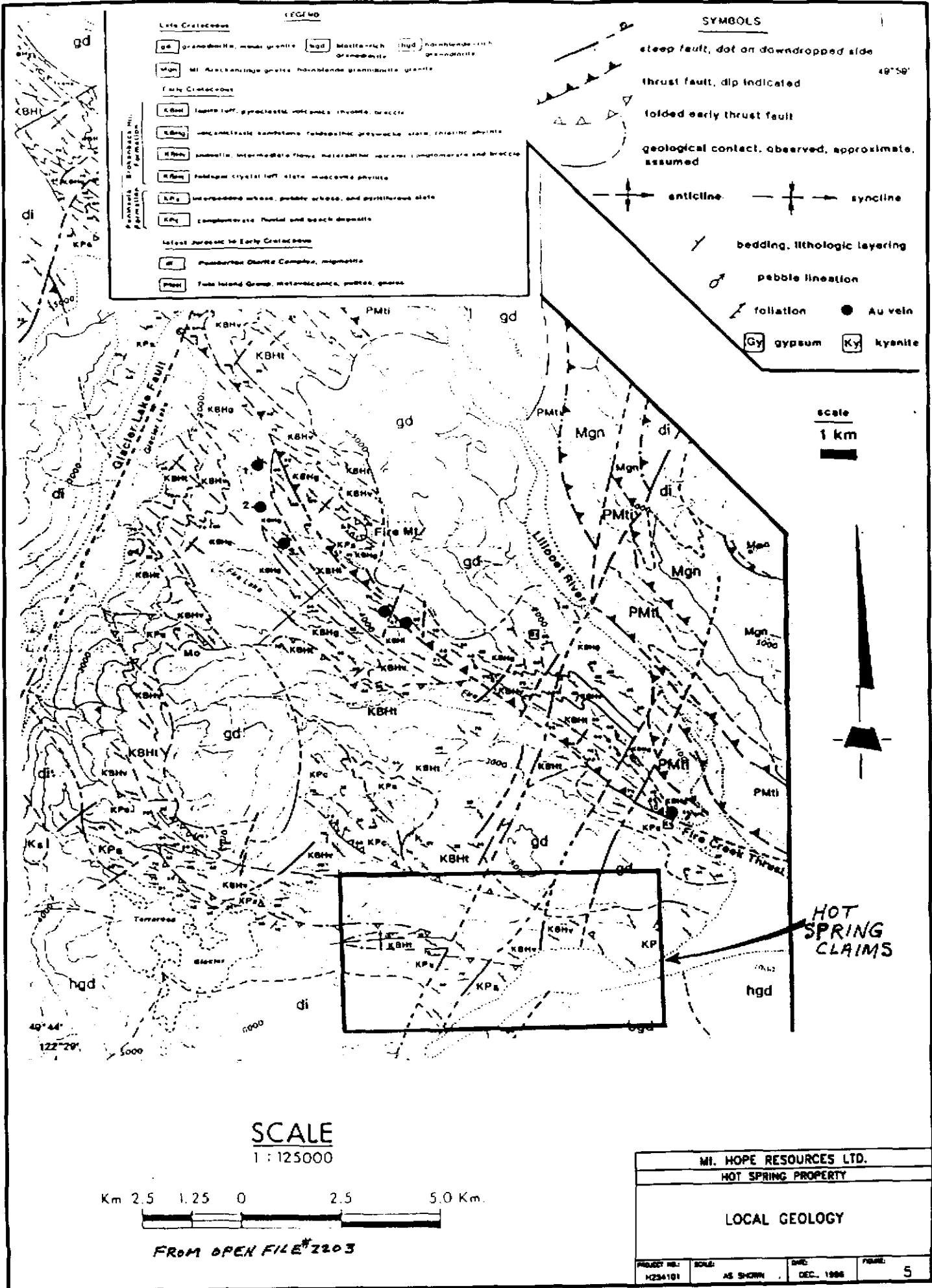
Unit 5B consists of andesitic flows and tuffs probably belonging to the Peninsula Formation. It occurs east of L31+500E and forms the easterly extent of the ridge between the North Sloquet and Sloquet Creek.

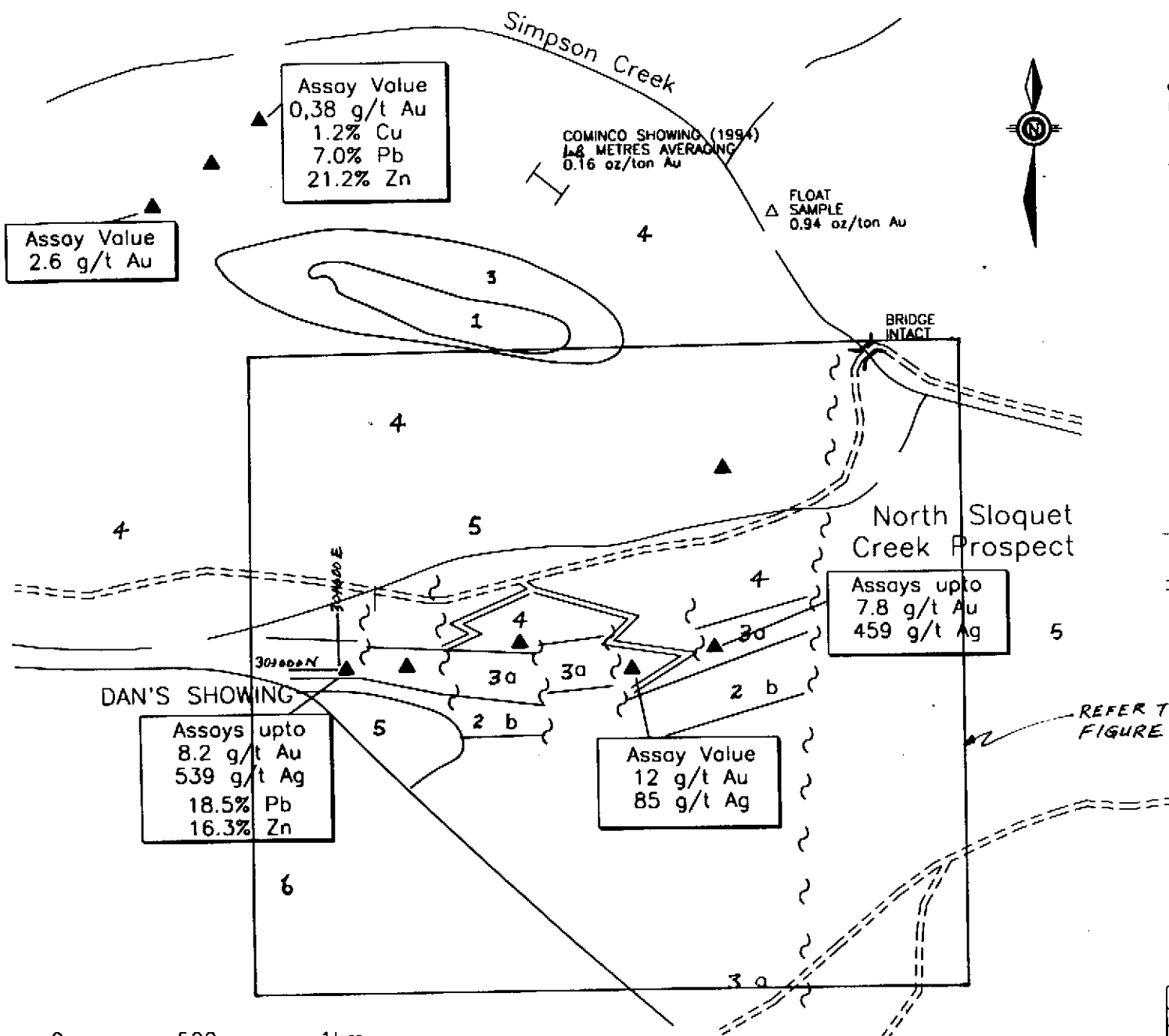
### Unit 4: Dacitic to Andesitic Lapilli (Nodular) Tuffs

Characterized by a dark grey to brown matrix of abundant secondary biotite with subrounded 1 to 10 mm nodules of light green associated with variable concentrations of felsic angular fragments. This unit contains variable to pervasive silicification and has been shown by petrographic studies to be altered by potassium feldspar.

This unit is common along the northern border of the detailed grid over a slope distance of 300m and is in gradational (due to intensity of alteration) contact with unit 3. Relict textures in Unit 3 suggest that at least part of Unit 3 is intensely altered unit 4.







**LEGEND**

- 6. Diorite (coast intrusive)
- 5. Andesite dykes/flows  
Minor metasediments
- 4. Altered-dacitic tuff
- 3. Altered andesitic tuff  
a. strongly pyritic  
b. weakly pyritic
- 2
- 1. Metasediments - argillite,  
limestone, grit

- ~ fault
- ▲ Au Ag Pb showing
- Au soil anomaly >50ppb
- - - creek
- ==== road/track



MI. HOPE RESOURCES LTD.			
HOT SPRING PROPERTY			
<b>DETAIL GENERALIZED GEOLOGY</b>			
PROJECT NO: H254101	SCALE: AS SHOWN	DATE: DEC., 1998	FIGURE: 7

### Unit 3: Siliceous Felsic Tuff

A light blue grey, fine grained to very fine grained highly silicified and potassic altered and massive rock. The rock appears to have been bleached and weathered surfaces have a distinctive yellow-brown gossanous appearance due to oxidation of finely disseminated pyrite.

This unit is often mineralized with sphalerite ± galena and lesser chalcopyrite and produced the bulk of the gold and silver rock sample anomalies during Aranlee's 1989 field program. It is situated immediately south of Unit 4 in an east-west band on the detailed grid and occurs over a slope distance of 200m. Since unit 3 may be essentially an alteration feature, future mapping should concentrate on defining the contact relationships between unit 3 and 4.

A similar lithological unit occurs on the south facing slope of Southridge which may, in part, be the down-dip extension of Unit 3. It occurs over a much wider slope distance, however, and a steepening dip would be required to account for the additional area of the outcrop, unless this exposure is related to buried, presently unknown intrusive. The unit is fairly massive and dip measurements can not be made. More detailed mapping from closer spaced lines would be necessary to more fully understand the geometry of Unit 3.

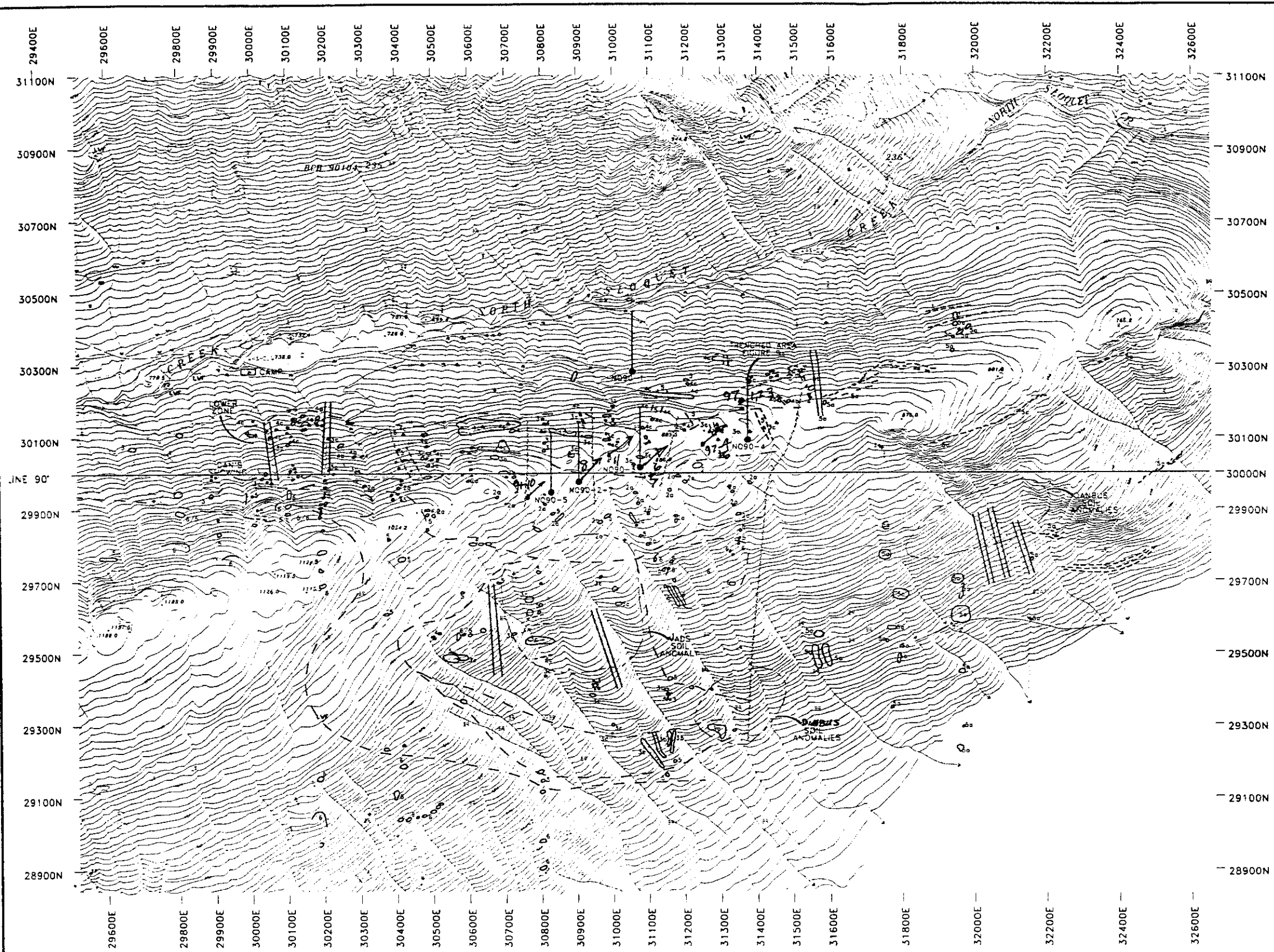
### Unit 2: Siliceous (Sugary Textured) Felsic Tuff

A white, fine to medium grained sugary textured, very siliceous felsic tuff. As with Unit 3, into which this unit is gradational, the protolith is not clear but is thought to be the dacite nodular tuff. Quartz eyes have not been recognized in hand specimens. Silicification has obliterated most original texture and the unit appears as a massive, non-bedded volcanic. Ghosted white tuff fragments (feldspar?) are sometimes observed.

A distinctive red (hematite?) colouration on weathered surfaces is common within this unit. The pyrite content is very low (<<1%) and the rock appears to have been bleached. This unit outcrops in an east-west band south of Unit 3 just on the south facing slope from the ridge forming the topographic high on the detailed and reconnaissance grids.

### Unit 1: Boulder Conglomerate

Well rounded granitic boulders occur within a (matrix supported) dark green, chloritized andesitic matrix. This unit is only seen on the reconnaissance grid on the east and north-east sides and likely represents a lower portion of the Peninsula Formation within the gridded area.



**LEGEND**

- 8** ANDESITE TUFFS
  - MEDIUM GREEN FINE GRAINED SILICIFIED MATRIX
  - ABUNDANT FELDSPAR TUFFACEOUS FRAGMENTS
  - 0-5% FINE GRAINED MAFIC TUFFACEOUS FRAGMENTS
- 7** PALE GREEN TUFF
  - PALE GREEN AND HIGHLY SILICEOUS
  - VERY FINE GRAINED WITH GHOST FELDSPAR TUFFACEOUS FRAGMENTS
  - MAY BE BANDED
  - NOT MAPPED IN SURFACE EXPOSURE
- 6** BIOTITE - HORNBLENDE DIORITE
  - UNALTERED, MEDIUM TO FINE GRAINED CONTAINS XENOLITHIC BLOCKS OF ANDESITE NEAR CONTACT.
- 5** A - ANDESITE FLOWS / HIGH LEVEL INTRUSIVES
  - MASSIVE UNDIFFERENTIATED MULTI-JOINTED
  - GREY BLACK TO GREENISH BLACK IN COLOUR.
  - VARIABLY PORPHYRITIC
  - EXTENSIVE CHLORITE ALTERATION, LESSER EPIDOTE ALTERATION
  - PYRITE ALMOST UNIVERSALLY PRESENT, 1-15% DISSEMINATED AND LOCALLY RICHER ON FRACTURE SURFACES.
- B - ANDESITE DYKES
  - SAME LITHOLOGY AS "5A"
  - COMMONLY PORPHYRITIC - "FELDSPAR PORPHYRYS"
  - CONTACT VARY BETWEEN DIFFUSE GRADATIONAL TO SHARP AND OFTEN SHEARED
  - CUTS ALL OTHER LITHOLOGIES (EXCEPT DIORITE?)
  - MOST TREND NORTH-NORTHWEST
- 4** DACITIC - ANDESITIC LAPILLI TUFFS
  - COARSE DARK GREY TO PURPLISH IN COLOUR
  - NODULAR FORM COMMON IN DRILL CORE, OFTEN LOGGED AS NODULAR TUFF
  - SECONDARY BIOTITE COMMON, GIVING WELL DEVELOPED FABRICS
  - GENERALLY SHOW PERVASIVE SILICIFICATION, PYRITIZATION AND LESSER K - FELDSPAR ALTERATION
- 3** SILICEOUS FELSIC TUFFS
  - FINE GRAINED, LIGHT-BLUE - GREY IN COLOUR
  - MAY INCLUDE MINOR HIGHLY ALTERED SEDIMENTS
  - GENERALLY PERVASIVE SILICIFICATION, PYRITIZATION AND K - FELDSPAR ALTERATION
  - STRONGLY BLEACHED, LEACHED, WITH DISTINCTIVE YELLOW BROWN GOSSANOUS WEATHERED SKIN IN STRONGLY ALTERED AREAS
- 2** SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS
  - VERY SILICEOUS, WHITE SUGARY TEXTURED
  - MINOR PYRITE < 1%
  - SERICITE COMMON
  - PINK Fe-OXIDE STAIN DISTINCTIVE ON WEATHERED SURFACE
  - GRADATIONAL WITH (3) IN SOME AREAS
- 1** BOULDER CONGLOMERATE
  - WELL ROUNDED GRANITIC BOULDERS FLOATING IN DARK CHLORITIZED ANDESITIC MATRIX

**SYMBOLS**

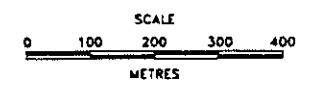
- OUTCROP
- CLIFFS/CRAGS
- SNOW CHUTE / TOPOGRAPHIC DEPRESSION
- ROAD
- LITHOLOGIC CONTACT
- FAULT

**ALTERATION**

- a** MINOR PYRITE, 1% MINOR TO MODERATE SILICIFICATION
- b** MODERATE PYRITE 1-4%, MINOR TO MODERATE SILICIFICATION
- c** ABUNDANT PYRITE 4-30%, MODERATE TO STRONG SILICIFICATION

**MINERALIZED OUTCROP AREAS**

- A** ABUNDANT SPHALERITE AND/OR GALENA
  - PYRITE > 10%
  - STRONG SILICIFICATION, OFTEN WITH QUARTZ-VEINLET FLOODING
  - STRONG K-FELDSPAR ALTERATION
  - MINOR SPHALERITE AND/OR GALENA
- Fs** FUCHSITE
- Bo** BARITE
- Cp** CHALCOPYRITE



Mt. HOPE RESOURCES LTD.			
HOT SPRING PROPERTY			
DETAIL GEOLOGY			
SOUTHRIDGE AREA			
+ DRILLHOLE LOCATIONS			
PROJECT NO.:	SCALE:	DATE:	FIGURE:
H254101	AS SHOWN	DEC., 1996	8

### Alteration

The volcanic package consisting of Units 2, 3 and 4 display the strongest alteration of all rocks mapped. Unit 5 displays strong local orthoclase alteration while Unit 3 contains both orthoclase and intense silica alteration. The silicification becomes stronger and orthoclase weaker towards the south (up stratigraphy) until in Unit 2 the rock is totally silicified and most of original textures destroyed. Silicification, as with orthoclase alteration, is pervasive with gradational contacts.

The origin of the alteration may, in part, be related to the intrusion of the Coast Plutonic complex diorites or unrecognized younger intrusives with the gradational change from one alteration type to the next related to the contact aureoles. Other volcanics on the property show minor to moderate silicification but nowhere near the intensity of Unit 2, 3 and 4.

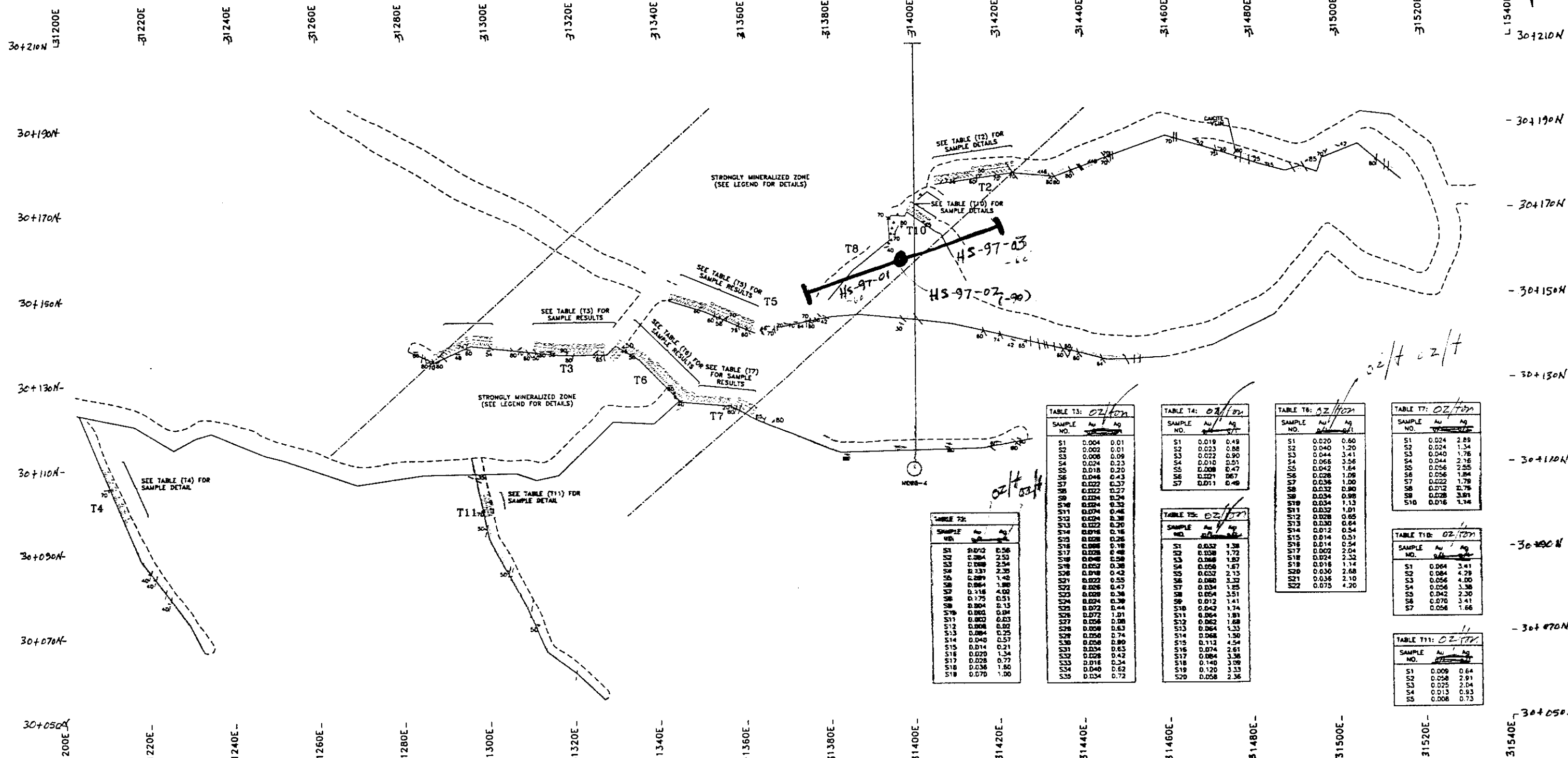
## **STRUCTURE**

The volcano-sedimentary sequence has been metamorphosed to biotite metamorphic grade with variable development of a tectonic fabric. Where recognizable, bedding is sub-parallel to or shallower than the fabric, dipping at 30-50° to the SSW or SSE. There is no evidence of major tight fold repetition within the map area.

Late-stage faulting is important, probably largely of post-plutonic, Tertiary age. Gold mineralization elsewhere in the Harrison Lake Area is related to this Tertiary Event. A major dextral northeast-trending fault controls the orientation of Sloquet Creek and cuts the nose of the ridge between North Sloquet and Simpson Creeks. Hot springs in Sloquet Creek may be related to this fault. Several sub-parallel northeast to north-trending faults may control the line of snow chutes to the west. One such structure exposed by trenching near 30+125N and 30+305E is strongly altered and mineralized. Several southwest dipping structures have also been recognized in the area and may bear a close relationship to mineralized zones.

The Southridge Zone west of Line 31+500E is underlain by an east-west striking, moderately south dipping sequence of intermediate to felsic volcanic tuffs to lapilli tuffs. These volcanics have been pervasively silicified and orthoclase altered and are cut by numerous andesitic porphyry dykes trending north to northwest. Steeply dipping north-south trending faults have displaced some lithologies by a few tens of metres. A blue-grey silicified felsic tuff unit (Unit 3) has been shown by past surveys to contain sphalerite-galena showings. Present mapping assigns the gold showings to this unit and defines it to be the most potentially economic horizon on the Southridge.

East of Line 31+500E and separated by a major north - south gully is a massive andesitic flow/tuff unit which is underlain by a boulder conglomerate. No structural measurements were recovered from these units. This area represents a significant faulted uplift within the Gambier Group with subsequent erosion of the Brokenback Hill Formation and exposing the underlying Peninsula Formation. These rocks are not as altered as those west of Line 31+500E indicating the uplift and erosion to be a late stage event. No mineralization except minor pyrite was seen within this package of rocks.



**LEGEND**

- ANDESITIC - BASALTIC DYKES (VERTICAL IF NO DIP INDICATED) PYRITIZED WITH EPIDOTE - CARBONATE ALTERATION
- INTERVENING LITHOLOGY: ALL RECRYSTALLIZED SILICIFIED RHYOLITE TUFT BRECCIA, STRONGLY PYRITIZED ± SPHALERITE - GALENA
- STRONGLY MINERALIZED ZONE: PERVASIVE QUARTZ VEINLET FLOODING, ABUNDANT PYRITE - SPHALERITE, MODERATE GALENA, BRECCIATION WELL DEVELOPED, CARBONATE ALTERATION
- TRENCH, CHANNEL SAMPLE INTERVAL - Au oz/t, Ag oz/t
- SHEAR (VERTICAL IF NO DIP INDICATED)
- BEDDING
- FABRIC
- QUARTZ VEINLET AND SULPHIDE BANDING (0.1 - 2 cm SCALE)
- JOINT DIRECTION 1
- JOINT DIRECTION 2
- QUARTZ VEIN (> 20 cm)

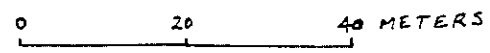


TABLE T2: oz/t on

SAMPLE NO.	Au	Ag
S1	0.002	0.01
S2	0.004	0.01
S3	0.006	0.02
S4	0.008	0.03
S5	0.010	0.04
S6	0.012	0.05
S7	0.014	0.06
S8	0.016	0.07
S9	0.018	0.08
S10	0.020	0.09
S11	0.022	0.10
S12	0.024	0.11
S13	0.026	0.12
S14	0.028	0.13
S15	0.030	0.14
S16	0.032	0.15
S17	0.034	0.16
S18	0.036	0.17
S19	0.038	0.18
S20	0.040	0.19
S21	0.042	0.20
S22	0.044	0.21
S23	0.046	0.22
S24	0.048	0.23
S25	0.050	0.24
S26	0.052	0.25
S27	0.054	0.26
S28	0.056	0.27
S29	0.058	0.28
S30	0.060	0.29
S31	0.062	0.30
S32	0.064	0.31
S33	0.066	0.32
S34	0.068	0.33
S35	0.070	0.34
S36	0.072	0.35
S37	0.074	0.36
S38	0.076	0.37
S39	0.078	0.38
S40	0.080	0.39
S41	0.082	0.40
S42	0.084	0.41
S43	0.086	0.42
S44	0.088	0.43
S45	0.090	0.44
S46	0.092	0.45
S47	0.094	0.46
S48	0.096	0.47
S49	0.098	0.48
S50	0.100	0.49
S51	0.102	0.50
S52	0.104	0.51
S53	0.106	0.52
S54	0.108	0.53
S55	0.110	0.54
S56	0.112	0.55
S57	0.114	0.56
S58	0.116	0.57
S59	0.118	0.58
S60	0.120	0.59
S61	0.122	0.60
S62	0.124	0.61
S63	0.126	0.62
S64	0.128	0.63
S65	0.130	0.64
S66	0.132	0.65
S67	0.134	0.66
S68	0.136	0.67
S69	0.138	0.68
S70	0.140	0.69
S71	0.142	0.70
S72	0.144	0.71
S73	0.146	0.72
S74	0.148	0.73
S75	0.150	0.74
S76	0.152	0.75
S77	0.154	0.76
S78	0.156	0.77
S79	0.158	0.78
S80	0.160	0.79
S81	0.162	0.80
S82	0.164	0.81
S83	0.166	0.82
S84	0.168	0.83
S85	0.170	0.84
S86	0.172	0.85
S87	0.174	0.86
S88	0.176	0.87
S89	0.178	0.88
S90	0.180	0.89
S91	0.182	0.90
S92	0.184	0.91
S93	0.186	0.92
S94	0.188	0.93
S95	0.190	0.94
S96	0.192	0.95
S97	0.194	0.96
S98	0.196	0.97
S99	0.198	0.98
S100	0.200	0.99

TABLE T3: oz/t on

SAMPLE NO.	Au	Ag
S1	0.004	0.01
S2	0.008	0.02
S3	0.012	0.03
S4	0.016	0.04
S5	0.020	0.05
S6	0.024	0.06
S7	0.028	0.07
S8	0.032	0.08
S9	0.036	0.09
S10	0.040	0.10
S11	0.044	0.11
S12	0.048	0.12
S13	0.052	0.13
S14	0.056	0.14
S15	0.060	0.15
S16	0.064	0.16
S17	0.068	0.17
S18	0.072	0.18
S19	0.076	0.19
S20	0.080	0.20
S21	0.084	0.21
S22	0.088	0.22
S23	0.092	0.23
S24	0.096	0.24
S25	0.100	0.25
S26	0.104	0.26
S27	0.108	0.27
S28	0.112	0.28
S29	0.116	0.29
S30	0.120	0.30
S31	0.124	0.31
S32	0.128	0.32
S33	0.132	0.33
S34	0.136	0.34
S35	0.140	0.35
S36	0.144	0.36
S37	0.148	0.37
S38	0.152	0.38
S39	0.156	0.39
S40	0.160	0.40
S41	0.164	0.41
S42	0.168	0.42
S43	0.172	0.43
S44	0.176	0.44
S45	0.180	0.45
S46	0.184	0.46
S47	0.188	0.47
S48	0.192	0.48
S49	0.196	0.49
S50	0.200	0.50
S51	0.204	0.51
S52	0.208	0.52
S53	0.212	0.53
S54	0.216	0.54
S55	0.220	0.55
S56	0.224	0.56
S57	0.228	0.57
S58	0.232	0.58
S59	0.236	0.59
S60	0.240	0.60
S61	0.244	0.61
S62	0.248	0.62
S63	0.252	0.63
S64	0.256	0.64
S65	0.260	0.65
S66	0.264	0.66
S67	0.268	0.67
S68	0.272	0.68
S69	0.276	0.69
S70	0.280	0.70
S71	0.284	0.71
S72	0.288	0.72
S73	0.292	0.73
S74	0.296	0.74
S75	0.300	0.75
S76	0.304	0.76
S77	0.308	0.77
S78	0.312	0.78
S79	0.316	0.79
S80	0.320	0.80
S81	0.324	0.81
S82	0.328	0.82
S83	0.332	0.83
S84	0.336	0.84
S85	0.340	0.85
S86	0.344	0.86
S87	0.348	0.87
S88	0.352	0.88
S89	0.356	0.89
S90	0.360	0.90
S91	0.364	0.91
S92	0.368	0.92
S93	0.372	0.93
S94	0.376	0.94
S95	0.380	0.95
S96	0.384	0.96
S97	0.388	0.97
S98	0.392	0.98
S99	0.396	0.99
S100	0.400	1.00

TABLE T4: oz/t on

SAMPLE NO.	Au	Ag
S1	0.018	0.48
S2	0.023	0.88
S3	0.022	0.90
S4	0.010	0.51
S5	0.008	0.47
S6	0.021	0.67
S7	0.011	0.46

TABLE T5: oz/t on

SAMPLE NO.	Au	Ag
S1	0.020	0.60
S2	0.040	1.20
S3	0.044	3.41
S4	0.066	3.56
S5	0.042	1.64
S6	0.028	1.08
S7	0.036	1.00
S8	0.032	0.80
S9	0.034	0.98
S10	0.034	1.13
S11	0.032	1.01
S12	0.028	0.65
S13	0.030	0.64
S14	0.012	0.54
S15	0.014	0.51
S16	0.014	0.54
S17	0.002	2.04
S18	0.024	2.32
S19	0.018	1.14
S20	0.030	1.68
S21	0.036	2.10
S22	0.075	4.20

TABLE T6: oz/t on

SAMPLE NO.	Au	Ag
S1	0.024	2.89
S2	0.024	1.34
S3	0.040	1.76
S4	0.044	2.16
S5	0.056	2.55
S6	0.056	1.84
S7	0.022	1.78
S8	0.012	0.78
S9	0.028	3.89
S10	0.016	1.34

TABLE T7: oz/t on

SAMPLE NO.	Au	Ag
S1	0.024	2.89
S2	0.024	1.34
S3	0.040	1.76
S4	0.044	2.16
S5	0.056	2.55
S6	0.056	1.84
S7	0.022	1.78
S8	0.012	0.78
S9	0.028	3.89
S10	0.016	1.34

TABLE T8: oz/t on

SAMPLE NO.	Au	Ag
S1	0.064	3.41
S2	0.084	4.29
S3	0.056	1.84
S4	0.056	1.84
S5	0.042	2.30
S6	0.070	3.41
S7	0.056	1.66

TABLE T9: oz/t on

SAMPLE NO.	Au	Ag
S1	0.009	0.64
S2	0.025	2.91
S3	0.013	0.93
S4	0.013	0.93
S5	0.008	0.73

**Mt. HOPE RESOURCES LTD.**  
HOT SPRING PROPERTY

**SOUTHRIDGE TRENCHING & LOCATION OF DRILLHOLES**

PROJECT NO.: H254101	SCALE: AS SHOWN	DATE: DEC., 1996	FIGURE: 9
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## TRENCHING (IN 1988 & 1989)

### **Mineralization and Lithogeochemistry**

A high proportion of the volcanic rocks in the claim area are pyritic with variable enrichment in base and precious metals. The property geology indicates major potential for volcanogenic massive sulfide or stockwork base metal-gold mineralization (comparable to some of the zones at the Britannia Mine) and for structurally controlled mesothermal or epithermal gold mineralization related to the Late Cretaceous or Tertiary structures.

Exploration by Cominco and Aranlee prior to 1989 identified widespread base and precious metal enrichment in the pyritic felsic volcanics on the ridge between Simpson and North Sloquet Creeks. Several sphalerite-galena showings were located on this ridge and north of Simpson Creek, some with significant gold values (max. 392 ppb Au). Higher gold values in Dan's Showing south of North Sloquet Creek focused follow-up work in this area. This led in 1989 and 1990 to the outlining of an extensive, discontinuous, mineralized zone extending at least 1.5 km east-west along strike and up to 100m across strike. This area is referred to as the North Sloquet Creek Prospect.

### **North Sloquet Creek Prospect, Figure 8**

#### Dan's Showing (30+000N + 30+050E)

Five trenches were blasted across the showing in 1988. This zone outcrops over a horizontal area of 55 by 35 metres and is covered on all sides. Vertically it is exposed through a height of 25 metres on the steep hillside. Hand trenching gave values of up to 0.238 oz/ton Au over 1m (0.174 oz/ton over 2m). In a different area, one part of a trench gave 8 metres averaging 0.052 oz/ton Au. Narrow galena-sphalerite fault zones give up to 15 oz/ton Ag and 25% combined Pb/Zn over 1 metre (Shearer, 1988). The host rock is Unit 3a altered rhyolitic tuff cut by an intense millimetre scale quartz veining network. Sulfides occur as disseminations and within veins, averaging 5-10% but with local zones of up to 40-60% sulfide. The richest mineralization occurs in a shallow (35°) south-dipping 0.2 to 1m breccia zone.

The extent of the mineralized area is uncertain. Disseminated sphalerite-galena mineralization occurs in outcrop along strike to the east for 130m, with grab samples assaying up to 3.37 g/t Au (0.098 oz/ton Au). Mineralized float occurs 150m west of the showing, where outcrop is absent. Exposure is also absent downhill to the north. To the south, the zone passes up into unmineralized andesite.

The evidence suggests a primary stratabound metal enrichment concentrated into later structurally controlled zones. The disposition of higher grade samples within the trenched area may reflect a 150-160° mineralized zone strike related to 140-150° shear zones exposed in the trenches. The relative importance of structural and stratigraphic controls requires additional investigation.

#### Lower Zone (30+100N + 30+035E)

The 'Lower Showing' lies 100m north-northwest and downhill from Dan's Showing. Abundant pyrite, galena and sphalerite occur as disseminations and in irregular massive zones and veins in silicified dacitic tuff. Grab samples assay up to 1.26 g/t Au (0.037 oz/ton). A strike of 160-170° would link the zone with Dan's Showing through intervening soil anomalies (up to 155 ppb Au).



Prospecting along strike to the east from the lower showing has established an extensive stratabound zone (250 x 50m) of variably silicified tuffs with widespread pyrite-galena-sphalerite mineralization, concentrated in northwest-trending shear zones. Grab samples assay up to 0.7 g/t Au (0.02 oz/ton).

The Lower Zone continues east into the 350 E showing and probably continues along strike through the 600 E, 900 E, 1150 E and 1400 E Showings (below).

#### 350 E Showing (30+125N + 30+350E)

Excavator trenching of a northwest-trending Au soil anomaly (to a maximum of 420 ppb Au) revealed a fault zone of intensely sericitic and argillic altered pyritic tuff at least 13m across. Maximum gold values in 1 metre channel samples were 0.068 g/t (0.002 oz/ton). This passes east into 9m of silicified tuff with up to 30% pyrite-chalcopyrite-sphalerite. Maximum 1 metre channel sample assays from the zone were 0.48 g/t Au (0.014 oz/ton), 26.7 g/t Ag (0.78 oz/ton), 1.04% Cu, 1.35% Zn and 0.14% Pb. A 4m zone assayed at 0.39 oz/ton Au, 18.3 g/t Ag, 0.62% Cu, 0.64% Zn, 0.11% Pb.

A 30 metre section of variably silicified sphalerite-bearing pyritic tuffs was exposed east of this Cu-Zn zone. This mineralization represents the eastward extension of the Lower Zone, with up to 20 metres dextral offset across the fault. Maximum values from 1 metre channel samples were 0.206 g/t Au (0.006 oz/ton) with 22.7 g/t Ag (0.66 oz/ton) and 2.0% Zn.

#### 600 E Showing (30+170N + 30+600E)

This showing occurs on the eastward extension of the Lower Zone and marks the start of richer gold mineralization within the zone. Grab samples of pyrite-galena-sphalerite mineralization in silicified dacitic tuffs assay up to 4.2 g/t Au (0.122 oz/ton). Recent channel sampling across the zone indicated 7 metres assaying 2.4 g/t Au (0.07 oz/ton) with 2 metres at 4.56 g/t (0.134 oz/ton). Trenching is required to establish the continuity of the mineralization.

#### 900 E Showing (30+110N + 30+905E)

The main mineralized zone at 900 E is 3-5m across and exposed over 15m of strike at about 145° Az. It contains abundant (10-40%) pyrite, galena and sphalerite, disseminated within quartz vein networks hosted by silicified dacitic tuff. Mineralization is extensive but its continuity is uncertain due to deep oxidation and leaching.

Twelve grab samples from the 15 x 20 metre outcrop area average 2.45 g/t Au (0.071 oz/ton) and 33.16 g/t Ag (0.967 oz/ton). The maximum assay was 6.88 g/t Au (0.201 oz/ton) with 68 g/t Ag (1.983 oz/ton) and more than 1% Pb. Limited channel samples have been taken across the main zone. The best intersections were 1 metre at 6.38 g/t Au (0.186 oz/ton) and 2 metres at 2.76 g/t Au (0.805 oz/ton). Eight samples across the zone average 2.74 g/t Au (0.080 oz/ton) and 60.7 g/t Ag (1.769 oz/ton), excluding samples of an unmineralized 0.5m andesitic dyke cutting the zone.

The area is presently inaccessible to the excavator so that blast trenching and channel sampling are required to establish continuity and grade mineralization. The outcrop is deeply leached and grades may increase in fresh rock as was the case at Dan's Showing.

Exposure is absent along strike from the main zone. Its projected extension to the northwest is marked by a strong topographic break in craggy outcrops to the southwest. These comprise variably silicified pyritic tuff with common galena-sphalerite mineralization, forming part of the stratabound Lower Zone extending west to the 600 E Showing. Preliminary grab samples assay up to 2.9 g/t Au (0.08 oz/ton). Continuity of mineralization is difficult to establish due to deep oxidation and leaching. None of this area is accessible to tracked excavator and should be further explored by hand trenching, channel sampling and drilling.

#### 1300 - 1500 E Showing Figure 9 (30+150N and 31+300E to 31+500E)

Mineralization in the eastern grid area was discovered as a follow-up to highly anomalous soil geochemistry on the 30+000N line from 30+750E to 31+500E. Chip samples from sub-outcrop at 31+500E assayed 3840 ppb Au. Follow-up prospecting revealed pyritic silicified tuff with extensive sphalerite-galena. Mineralization in the vicinity at 1100 and 1400E returned values of 4.35 g/t (0.127 oz/ton) and 12.59 g/t (0.367 oz/ton) Au. Five grab samples from the 20 x 30m outcrop area at 1400E averaged 5.71 g/t (0.149 oz/ton) Au.

A tote road was constructed to the ridge top at 31+400E by tracked excavator and the area between 31+100E and 31+500E was trenched at this level. In total, 550m of trenching was completed with channel chip samples taken at 1 m intervals (in most cases). The trenching successfully delineated an apparently northeast trending zone, 40 m x 150 m, of intensely silicified pyritized rhyolitic tuff breccia with pervasive quartz veinlet flooding and alteration and disseminated and veinlet sphalerite-galena. Assay results (Table 2, Figure 9) were in the general range 0.02 to 0.1 oz/ton Au, 0.1 - 2 oz/ton Ag and 0.01 - 1% Pb and Zn through the zone.

The western and southern extensions of this mineralized area were not accessible to the excavator and will require blast trenching. Grab samples from the area west of 1300 E have assayed up to 12.07 g/t (0.352 oz/ton) Au with broad coincident soil geochemical anomalies.

A trench was dug further west on the ridge between 30+750E and 30+920E south of the main mineralized zone (900 E Showing), along the soil anomaly on the 30+000N line (up to a maximum of 750 ppb Au). This exposed a continuous zone of silicified pyritized tuffs with local minor sphalerite-galena. Grab samples assay up to 0.82 g/t (0.024 oz/ton) Au with chip samples up to 0.48 g/t (0.014 oz/ton) Au over 3 metres.

#### **Controls on Mineralization in the Sloquet Area**

Exploration to date has established an apparently stratabound zone of gold and base metal mineralization in intensely altered volcanic rocks south of North Sloquet Creek. North to northwest-trending structures within the zone are associated with higher grade mineralization. Some of these structures are obviously late, such as the fault zone at 350 E, but some may be significantly earlier.

The mineralization observed to date is not volcanogenic-exhalative but is of replacement stockwork type. If the mineralization is related to submarine volcanism, the observed enrichment may be peripheral to higher grade massive sulfide zones which may be amenable to geophysical detection. Recent soil and litho-geochemistry show increasing gold enrichment east of the 900 E Showing, indicating a higher grade section of the stratabound zone.

**TABLE 2****31 + 300 to 31 + 500 E Showing Au/Ag Trench Intersections**

<b>Trench</b>	<b>Intersection</b>		
T2	19m	@	0.046 oz/ton (1.57g/t) Au 1.132 oz/ton (38.8 g/t) Ag includes: 6m at 0.096 oz/ton (3.29 g/t) Au 2.48 oz/ton (85.35 g/t) Ag
T3	12m	@	0.023 oz/ton (0.78 g/t) Au 0.257 oz/ton (8.80 g/t) Ag
	19m	@	0.039 oz/ton (1.33 g/t) Au 0.543 oz/ton (18.30 g/t) Ag includes: 4m at 0.065 oz/ton (2.2 g/t) Au 0.541 oz/ton (18.56 g/t) Ag
T4	7m	@	0.016 oz/ton (0.54 g/t) Au 0.629 oz/ton (21.56 g/t) Ag
T5	20m	@	0.063 oz/ton (2.16 g/t) Au 2.31 oz/ton (79.18 g/t) Ag includes: 5m at 0.106 oz/ton (3.63 g/t) Au 3.430 oz/ton (116.5 g/t) Ag
T6	20m	@	0.029 oz/ton (0.99 g/t) Au 1.37 oz/ton (46.96 g/t) Ag includes: 13m @ 0.035 oz/ton (1.2 g/t) Au 1.37 oz/ton (46.96 g/t) Ag
T7	15m	@	0.032 oz/ton (1.09 g/t) Au 1.9 oz/ton (65.1 g/t) Ag
T8	Grab samples		0.092 oz/ton (3.15 g/t) Au ) over 6.57 oz/ton (225.2 g/t) Ag ) 90 cm 0.142 oz/ton (4.867 g/t) Au ) over 13.4 oz/ton (459.3 g/t) Ag ) 75 cm 0.230 oz/ton (7.88 g/t) Au ) over 8.96 oz/ton (307.4 g/t) Ag ) 65 cm
T9	7m	@	0.061 oz/ton (2.09 g/t) Au 3.207 oz/ton (45.9 g/t) Ag
T10	Grab sample		0.048 oz/ton (7.88 g/t) Au 1.34 oz/ton (45.9 g/t) Ag
T11	4m	@	0.026 oz/ton (0.891 g/t) Au 1.632 oz/ton (55.94 g/t) Ag
Refer to Figure 9 for details of trenching			

1000 ELEV. —  
29900N

30000N

30100N

30200N

30300N

S

N

900 ELEV. —

— 900 ELEV.

800 ELEV. —

— 800 ELEV.

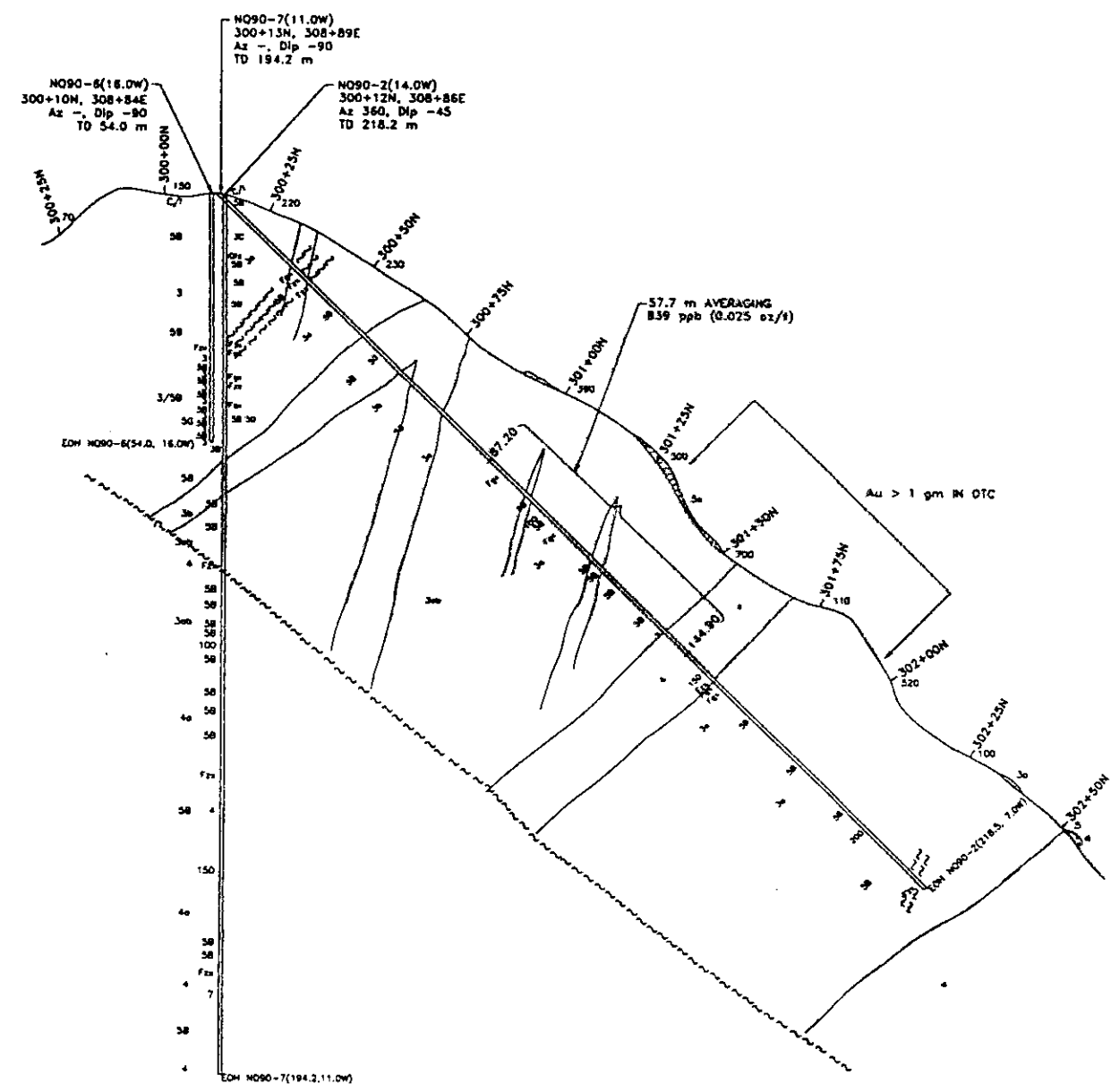
700 ELEV. —  
29900N

30000N

30100N

30200N

30300N



LEGEND

- 8 ANDESITE TUFFS**
  - MEDIUM GREEN FINE GRAINED SILICIFIED MATRIX
  - ABUNDANT FELDSPAR TUFFACEOUS FRAGMENTS
  - 0-5% FINE GRAINED MAFIC TUFFACEOUS FRAGMENTS
- 7 PALE GREEN TUFF**
  - PALE GREEN AND HIGHLY SILICEOUS
  - VERY FINE GRAINED WITH GHOST FELDSPAR TUFFACEOUS FRAGMENTS
  - MAY BE BANDED
  - NOT MAPPED IN SURFACE EXPOSURE
- 6 BIOTITE - HORNBLENDE DIORITE**
  - UNALTERED, MEDIUM TO FINE GRAINED CONTAINS XENOLITHIC BLOCKS OF ANDESITE NEAR CONTACT.
- 5 A - ANDESITE FLOWS / HIGH LEVEL INTRUSIVES**
  - MASSIVE UNDIFFERENTIATED MULTI-JOINTED
  - GREY BLACK TO GREENISH BLACK IN COLOUR.
  - VARIABLY PORPHYRITIC
  - EXTENSIVE CHLORITE ALTERATION, LESSER EPIDOTE ALTERATION
  - PYRITE ALMOST UNIVERSALLY PRESENT, 1-15% DISSEMINATED AND LOCALLY RICHER ON FRACTURE SURFACES.
- B - ANDESITE DYKES**
  - SAME LITHOLOGY AS "SA"
  - COMMONLY PORPHYRITIC - "FELDSPAR PORPHYRYS"
  - CONTACT VARY BETWEEN DIFFUSE GRADATIONAL TO SHARP AND OFTEN SHEARED
  - CUTS ALL OTHER LITHOLOGIES (EXCEPT DIORITE?)
  - MOST TREND NORTH-NORTHWEST
- 4 DACITIC - ANDESITIC LAPILLI TUFFS**
  - COARSE DARK GREY TO PURPLISH IN COLOUR
  - MODULAR FORM COMMON IN DRILL CORE, OFTEN LOGGED AS MODULAR TUFF
  - SECONDARY BIOTITE COMMON, GIVING WELL DEVELOPED FABRICS
  - GENERALLY SHOW PERVASIVE SILICIFICATION, PYRITIZATION AND LESSER K. -FELDSPAR ALTERATION
- 3 SILICEOUS FELSIC TUFFS**
  - FINE GRAINED, LIGHT-BLUE - GREY IN COLOUR
  - MAY INCLUDE MINOR HIGHLY ALTERED SEDIMENTS?
  - GENERALLY PERVASIVE SILICIFICATION, PYRITIZATION AND K. -FELDSPAR ALTERATION
  - STRONGLY BLEACHED, LEACHED, WITH DISTINCTIVE YELLOW BROWN GOSSANOUS WEATHERED SKIN IN STRONGLY ALTERED AREAS
- 2 SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS**
  - VERY SILICEOUS, WHITE SUGARY TEXTURED
  - MINOR PYRITE < 1%
  - SERICITE COMMON
  - PINK Fe-OXIDE STAIN DISTINCTIVE ON WEATHERED SURFACE
  - GRADATIONAL WITH (3) IN SOME AREAS
- 1 BOULDER CONGLOMERATE**
  - WELL ROUNDED GRANITIC BOULDERS FLOATING IN DARK CHLORITIZED ANDESITIC MATRIX

TUFFACEOUS ROCK MODIFIERS

- a) FRAGMENTAL
- b) LAPILLI
- c) ASH
- d) CRYSTAL

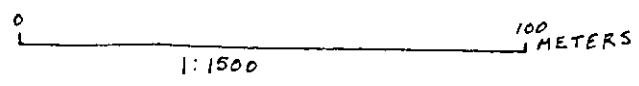
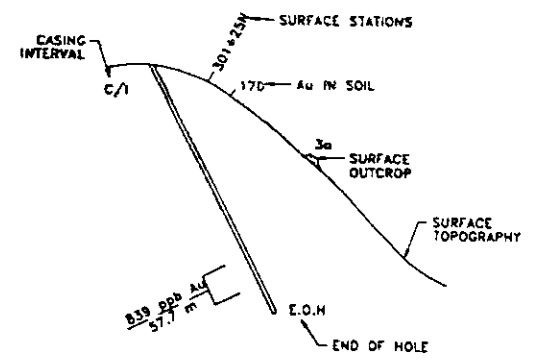
FAULTS

- Fzr FAULT ZONE
- Fgz FAULT GOUGE
- Fbr FAULT BRECCIA

ALTERATION

- a) QUARTZ FLOOD ZONE

SYMBOLS



SECTION LOOKING WEST

Mt. HOPE RESOURCES LTD.			
HOT SPRING PROPERTY			
DIAMOND DRILL CROSS SECTION NQ90-2, 6 & 7 (309+00E)			
PROJECT NO: H254101	SCALE: 1 : 1500	DATE: DEC. 1996	FIGURE: 10

## DIAMOND DRILLING (1990 & 1997)

Table 3 lists the drill collar co-ordinates and final hole depths for the 1990 drilling:

TABLE 3						
Drill Hole Co-ordinates						
DDH#	Latitude	Departure	Elevation	Azimuth	Dip	Total Length (m)
NQ90-1	30+335N	31+083E	746 m	360°	-85°	160.60
NQ90-2	30+012N	30+886E	950 m	360°	-45°	218.20
NQ90-3	30+038N	31+101E	882 m	360°	-50°	276.50
NQ90-4	30+106N	31+400E	833 m	360°	-52°	133.20
NQ90-5	29+971N	30+809E	970 m	360°	-60°	215.20
NQ90-6	30+010N	30+884E	950 m	-	-90°	54.00
NQ90-7	30+013N	30+889E	950 m	-	-90°	194.20
Subtotal 1990						1,251.90 (4,107.23 ft)
HS97-01	30163.00	31410.00	858m	050°	-57	144.60
HS97-02	30163.00	31410.00	858m	230°	-55	148.13
HS97-03	30163.00	31410.00	858m	050°	-90	127.00
HS97-04	30191.00	31307.00	872m	050°	-57	163.32
HS97-05	30091.00	31307.00	872m	050°	-90	160.32
HS97-06	30038.00	31101.00	881m	050°	-57	227.69
HS97-07	30038.00	31101.00	881m	050°	-90	175.76
HS97-08	30012.00	30882.00	943m	050°	-55	104.24
HS97-09	29970.00	30774.00	975m	050°	-57	231.65
HS97-10	29970.00	30774.00	975m	060°	-90	270.05
HS97-11	30050.00	31020.00	906m	050°	-60	230.73
Total 1997						1,983.49 (6,507.43 ft)
Grand Total						3,235.39 (10,614.66 ft)

Drill collar locations and surface projections are shown on Figure 8 and 9.

### NQ90-1:

DDH NQ90-1 was drilled from the access road at 30+335N on Section 31+100E (Figure 8). The target was a combined I.P. and Zn-Au soil geochemical anomaly. No outcrop had been mapped in this area.

The drill hole intersected a sequence of intermediate (dacitic) lapilli (nodular) tuffs crosscut by several large andesitic dykes. The lapilli tuffs are highly pyritic (5 - 12%) and correlate well with the I.P. responses. The soil geochemical anomaly could not be explained by results of NQ90-1 hence a larger downslope dispersion pattern than previously believed is suggested, with the source of the anomalous Zn-Au response uphill of NQ90-1.

#### NQ90-2

DDH NQ90-2 was drilled from the spine of Southridge at 30+012N on Section 30+900E (Figure 8 and 10) to test rock and soil geochemical anomalies coincident with I.P. highs. It intersected a sequence of highly siliceous, felsic, tuffs cross-cut by numerous andesitic dykes and an andesitic nodular tuff (Figure 10). Alteration is intense, pervasive silicification and is common to all holes. Mineralization consists of disseminated pyrite throughout and sphalerite and galena contained within pervasive quartz and veinlet zones. Au and Ag values are generally coincident with the Zn and Pb. Highest values (in separate samples) were 5.06% Zn over 1.5m, 0.92% Pb over 1.5m, 131.0 g Ag over 1.5m and 3.6 g Au over 1.5m. The best sustained intersection was 839 ppb Au over 57.7m within a 119m section averaging 584 ppb Au. The hole was stopped short of its planned depth due to continuous losses of downhole water pressure and a broken bit at the bottom of the hole (Wilson, 1991).

#### NQ90-3

DDH NQ90-3 was also drilled from the spine of Southridge at 30+038N on Section 31+100E (Figure 8). It tested coincident soil and rock geochemical anomalies with I.P. chargeability highs. It was extended to test a second I.P. anomaly with coincident Pb-Zn soil geochemical highs.

The drill hole intersected a sequence of siliceous felsic tuffs, andesitic dykes and "upper" andesitic nodular tuffs. The drill hole bottomed in andesitic lapilli (nodular) tuff not seen in NQ90-2.

Mineralization in this hole is principally sphalerite-galena in pervasive quartz and vein zones seen mainly at the top of the hole. Best results in a single sample ran 2.32% Zn, 0.41% Pb, 0.47% Cu, 46.2 g Ag and 2.25 g Au over 1.5m. The best sustained intersection was 776 ppb Au over 25.2m.

The target I.P. anomalies were explained by this hole as was the upper soil and rock geochemical anomaly. The lower soil anomaly centred on 30+325N was not explained by drilling and is now thought to be caused by down slope movement.

#### NQ90-4

DDH NQ90-4 was drilled at 30+106N on Section 31+400E (Figure 9) from the widest part of the Southridge spine under the 31+500E trenched area to test highly anomalous trench rock results in the 1989 work program. Also tested was a coincident I.P. chargeability zone flanking the area of known mineralization.

The drill hole intersected similar lithology to Holes NQ90-2 and 3 with a siliceous felsic tuff intruded by andesitic dykes and interbedded with an andesitic lapilli (nodular) tuff. Sphalerite and galena are present from trace to 1% over 1.5m lengths occurring mainly within quartz flood/veinlet zones, especially from 78.3m to 91.2m. Gold values are associated with the quartz zones as are silver values. Best results for individual elements are 2.65% Zn over 0.3m, 0.45% Pb over 0.3m, 0.25% Cu over 0.3m, 161.8 g Ag over 0.3m (Zn, Pb, Cu and Ag from same sample) and 1.55 g Au over 1.5m. The best sustained result for gold was 615 ppb Au over 66 m.

All I.P. and geochemical targets were explained by this hole, however, the stratigraphic similarities in Holes NQ90-2, 3 and 4 indicate that a second lesser mineralized horizon would have been potentially intersected by an extension of NQ90-4 to 200 m depth.

#### NQ90-5

DDH NQ90-5 was drilled at 29+971N on Section 30+800N (Figure 8), to undercut anomalous soil geochemistry on strike with a favourable intersection in NQ90-2. No I.P. surveying was completed on this section.

The drill hole intersected uphole sections of fine grained siliceous felsic tuffs which were finer grained than in NQ90-2. Below are sections of siliceous, felsic tuff cross-cut by post mineral andesitic dykes and interbedded with an andesitic lapilli (nodular) tuff.

Pyrite is ubiquitous from 1 to 5% and sphalerite (• galena) is present in quartz vein and flood zones from trace to 3% over sample widths to 1.5m. Best results for individual elements (in separate samples) are 1.83% Zn over 1.5m, 0.83% Pb over 1.5m, 0.17% Cu over 1.5m, 22.1 g Ag over 1.5m and 870 ppb Au over 1.5m. The best sustained Au results are 343 ppb Au over 13.5m.

The mineralized zone in NQ90-5 is weak in comparison to NQ90-2 but does occur at the same physical (downdip) location as Hole #2. By comparing Au results in these two holes it is apparent that the potential mineralized horizon should continue in NQ90-5 to approximately 245m down hole, another 30m beyond the present end of hole.

#### NQ90-6

DDH NQ90-6 was drilled vertically beneath NQ90-2 at 30+010N on Section 30+900E (Figure 8 and 10) to test the downdip extension of Hole #2's mineralized horizon. The hole was abandoned at 54 m after a fault zone at 34 m caused excessive squeezing on the rods. Several attempts to wash the hole were unsuccessful and two bits were destroyed trying to re-penetrate the fault zone.

The hole was drilled along the contact of siliceous felsic tuffs with a near vertically dipping andesite dyke. No mineralization was encountered throughout it's length.

#### NQ90-7

DDH NQ90-7 was a re-drill of NQ90-6 at 30+013N on Section 30+900E (Figure 8 and 10) in an attempt to penetrate the fault zone in order to test NQ90-2's downdip extension of mineralization. Although the fault zone was intersected no problems were encountered coring through it.

The drill hole intersected similar lithology as the top of NQ90-2, of siliceous, felsic tuff down as far as 105m. At 105m a quartz-carbonate fracture fault zone separates felsic lithology from andesitic lapilli (nodular) tuff just above the anticipated intersection of the mineralized horizon. No mineralization was found and it is felt that a block of the basal tuff was faulted in, disrupting the mineralized sequence (Figure 10).

The hole was terminated once the projected downdip extension of the mineralized horizon had been penetrated. In other holes the mineralized horizon cross-cut several lithologies (except andesite dykes) hence it was anticipated that the horizon would be cored in Hole #7. A fault disruption is therefore suspected for the absence of the expected mineralization.

Diamond drilling in 1997 was successful in discovering several new, extensive mineralized zones of highly silicified, epidotized and potassic altered rock as follows:

**TABLE IV**  
**Results of 1997 Diamond Drilling**

	metres		length (m)	Au g/tonne	Ag g/tonne
	from	to			
HS97-01	3.05	38.01	34.96	1.290	42.26
including	30.49	36.52	6.03	2.660	43.16
HS97-01	94.77	97.53	2.76	1.300	37.40
HS97-02	3.05	27.88	24.83	0.900	16.22
HS97-02	47.89	52.65	4.76	0.660	8.63
HS97-03	3.66	26.00	22.34	1.163	32.96
HS97-03	34.85	51.40	16.55	1.305	14.81
HS97-03	73.50	110.00	36.50	0.575	10.87
HS97-04	3.55	22.05	18.50	0.206	8.80
HS97-04	110.25	119.08	8.33	0.603	8.81
HS97-04	145.70	153.00	7.30	0.889	11.08
HS97-06	65.00	68.44	3.44	1.091	8.23
HS97-07	46.00	49.00	3.00	1.660	12.03
HS97-09	29.00	59.00	30.00	0.237	20.69
HS97-10	61.00	103.00	42.00	0.509	10.06
HS97-10	109.52	113.00	3.48	0.572	22.91
HS97-10	135.00	142.50	7.50	0.510	12.60
HS97-11	71.00	74.00	3.00	1.378	9.60
HS97-11	92.00	103.00	11.00	2.13	8.31*

\*2.24% Zn

Diamond drillholes HS97-01 to HS97-05 are plotted on Figure 11 (in pocket). Hole HS97-03 (-90°) shows elevated gold values down to a depth of below 750m elevation contained in the dacitic nodular tuff. The higher gold values in Hole HS97-04 (-57°) suggest that the mineralized horizon is not simply a south dipping sheet. Vein orientation and sections of barren andesite dyke/sills are important considerations. The elevated precious metal values in Hole HS97-05 (-90°) has split into an upper zone 0-60m and then 103-133. The lower zone is mainly within the dacitic nodular tuff and not the intensely altered siliceous felsic tuff. A conclusion of the 1997 program is that the Unit 3 and Unit 4 are in fact the same unit only exhibiting different intensities of alteration. There are at least 3 phases of quartz veining and mineralization.

Epidote and MoS<sub>2</sub> mineralization was noted in most holes drilled in 1997. The largest section of silicification and associated molybdenite mineralization is in hole HS97-06 (Figure 12) between 186m to 210m in an altered hornfels unit with slightly elevated silver values, suggestive of a nearby hidden intrusive body. The precious metal zone in hole HS97-06 (Figure 12) is roughly between 58m and 68m in dacitic nodular tuff which contrasts to the precious metal zone in HS97-07 between 40m and 54m in siliceous felsic tuff.

The elevated gold/silver values in holes HS97-9 and HS97-10 (Figure 14) are slightly off-set by faulting and extend in hole HS97-10 from approximately surface to 144m but higher grade between 60m to 144m. There is a smaller elevated gold zone in HS97-10 225m to 232m. Since holes HS97-9 and HS97-10 are the farthest west holes drilled to date, it appears that the precious metal system, although very low grade as presently known, is increasing in thickness to the west and south.



## Drill Summary

Drill hole NQ90-4, 3, 2 and 5 (east to west) showed similar stratigraphic sequences of silicified felsic tuffs of probable dacitic to rhyolitic origin, interbedded with and floored by an andesitic lapilli (nodular) tuff. All rocks are cut by numerous andesitic dykes. A few intervals of andesitic tuff are recognized but it is not a common rock type. All rocks are moderately to highly silicified, and fracturing/faulting is relatively common. Frequent open spaces not easily evident in drill core was noted due to downhole losses of water pressure during drilling. All significant mineralization is found in these four holes.

Drill hole NQ90-1 tested down-stratigraphy from Holes #2 to 5 and found andesitic lapilli (nodular) tuffs with large andesitic dyke intervals. No economic mineralization was encountered. Drill holes NQ90-6 and 7 tested downdip of Hole #2 and cored a top section of felsic tuffs and a faulted in section of nodular tuffs which displaces the expected mineralized horizon.

The diamond drill program tested downdip projections of coincident soil geochemical anomalies/mineralized outcrop exposures and I.P. chargeability anomalies between Sections 30+800E and 31+400E. The best Au results were obtained in Holes NQ90-2 (839 ppb Au over 57.5m), NQ90-3 (776 ppb Au over 25.2m) and NQ90-4 (615 ppb Au over 66m) on Sections 30+900E, 31+100E and 31+400E respectively.

Gold mineralized zones, recognized by the presence of sphalerite and galena, are found within quartz flooded and veined drill core. This quartz alteration is seen in both siliceous felsic tuffs and andesitic lapilli (nodular) tuffs but is not seen in the numerous andesitic dykes. The mineralization is not diminished by the extensive, pervasive silicification hence is felt to be contemporaneous with or post silicic alteration, and pre-volcanic dyking. The source area of the mineralization, however, was not discovered in drill core.

Mineralization was thought by Wilson (1991) to be related to hydrothermal activity associated with the igneous intrusions. His model envisioned circulating hydrothermal fluids peripheral to igneous bodies producing pervasive silica • potassium feldspar alteration. Additional silica infusion caused quartz veinlets and quartz flood zones to form specific zones which are more common within the felsic tuffs. Numerous fracture zones were noted in drill core which may be related to mineralization although no specific relations could be drawn from this initial drill program. Future drilling should concentrate on structural logging of the core.

Drill targeting of north to northwest trending structural zones is also recommended to ascertain if smaller zones of higher grade mineralization exists within these major plumbing systems. These structural zones may be a late stage feature. Correlating the relative timing of these features should be a priority in future geological mapping.

## SOIL GEOCHEMISTRY (Figure 16)

Soil samples were taken on east-west grid lines initially at 10m intervals and later at 20m intervals (Figure 18). Samples were taken on lines 30+300N, 30+250N, 30+200N, 30+150N, 30+100N, 30+000N from 30+000E to 32+000E. Difficult access, poor soil development and other logistical problems prevented complete sampling on these lines. Samples were also taken on a diagonal line from near 30+000N at 30+550E to 30+180N at 31+500E; and along the old logging roads and from 30+000E to 29+500E along line 30+100N.

Samples were analyzed for Au, Ag, Pb, and Zn. Extensive Au anomalies showing close correlation with Ag and Pb, Zn values, define a stratabound mineralized zone. This zone is approximately bounded by the 30+200N to 30+100 N lines and runs from 30+000E to 31+500E. Frequent north to northeasterly trending Au anomalies are also well developed and suggest similar trending structurally controlled potential mineralized zones. The best anomalies are developed over the eastern half of the grid with some values greater than 1000 ppb Au.

During May 1990, a soil geochemical survey was completed on both the detailed and reconnaissance grids at 25 and 50m station spacings respectively. Fill-in sampling on the anomalous reconnaissance lines during early June 1990 followed up the earlier sampling.

Results of sampling together with contoured interpretation are presented on Figure 18 for Au. Determination of threshold levels for contouring were by inspection. Very high backgrounds in specific areas of the entire grid masked the centres of mineralization if thresholds are based on the entire population. Selection of a subset of geochemical data is recommended for additional geostatistical study. ICP 30 element analysis was completed on all samples and this data should be acquired for additional study.

Four areas are recognized as anomalous and worthy of follow-up study. They are the (1) Southridge Anomaly, (2) the J.A.D.S. Anomaly, (3) the Danbus Anomaly, and (4) the Northridge Anomaly as shown on Figure 18.

### Southridge Anomaly

The east end of the Southridge Anomaly was trenched by Aranlee Resources and a limited amount of diamond drilling was conducted by Noranda. It is a combined Au, Ag, Pb, An, Cu anomaly occurring in an east-west direction from Line 30+100E to 31+500E between 30+000N and 30+500N. The Anomaly is most broadly seen as a Pb anomaly and most narrowly as a Cu anomaly. Pb values reach a high of 3390 ppm with seven other stations above 1000 ppm Pb. Ag values show the second strongest anomaly and closely track high Pb values. Results to 102.5 ppm Ag are seen with eighteen other results above 10 ppm. Although there is a suggestion of downslope dispersion with some of the highest Ag results, the strongest trend is across slope on an E-W direction.

Gold has the third strongest response with highest values of 1690 and 1100 ppb Au. The bulk of the anomaly which extends from 30+500E to 31+500E is above 100 ppb Au with large areas above 200 ppb Au. The anomaly has two centres defined by:

- 1) 30+900E to 31+200E from 30+000N to 30+250N and in an east - west direction; and
- 2) 31+200E to 31+400E from 30+300N to 30+600N with a northeast azimuth.

The later centre is also seen as a Ag anomaly but not in Pb, Zn, Cu values.



Zinc and Cu results, while anomalous, form much narrower bands than Pb, Ag, and Au. Zinc values to 1589 ppm and 1949 ppm are seen along a 100m wide ENE belt from 30+100E, 30+200N to 30+300N to 31+200E, 30+500N to 30+600N and open to the north across the creek. Cu results follow the familiar east-west band from 30+100N to 31+000N from 30+100E to 30+300E but is more sinuous and erratic. It does, however, follow the highs of all other elements.

The best values generally track Unit 3: blue-grey siliceous felsic tuff. This unit also has the highest number of sphalerite-galena-chalcopyrite showings with corresponding anomalous gold-silver rock sample results from the 1989 Aranlee survey.

Some of the anomalies are seen within Unit 4: purple andesitic lapilli tuff, however, downslope dispersion on the 30-50° hillside may tend to extend the anomaly beyond the source area. This area also corresponds to a quiet ground magnetometer response and a high background I.P. response.

The geochemical survey has shown that Unit 3 is the primary unit of interest and that attention should be directed to the area between 30+100E and 31+500E from 30+000N to 30+300N. The second gold anomaly in the 31+200N to 31+400N area is within a no outcrop zone in deep overburden. Detailed studies will be required in this thickly treed area to determine if this is a transported anomaly.

#### J.A.D.S. Anomaly

The J.A.D.S. Anomaly is roughly situated between 30+600E and 31+000E from 29+350N to 29+700N and is a Au, Ag, Pb, Zn anomaly with spotty Cu values. Au highs to 1550 ppb, Ag highs to 30.9 ppm, Pb highs to 816 ppm and Zn highs to 701 ppm define a northeast trending anomaly centred within felsic tuffs showing minor pyrite. This area has been assigned a Unit 3 rock unit although further mapping is required to determine it's relation to the Southridge Unit 3.

Geological mapping to date has only been on the even numbered 200m spaced lines. Additional detailed mapping and prospecting are required over this zone which shows a quiet magnetometer signature similar to Unit 3 on the Southridge Anomaly.

#### Danbus Anomaly

The Danbus Anomaly occurs between 32+000E and 32+400E from 29+500N to 29+700N and is primarily a Zn anomaly with spotty, low level Au values. It occurs within intermediate volcanics believed to be related to the Peninsula Formation. The area is of secondary importance and is mentioned only for completeness.

#### Northridge Anomaly

Three lines extending north across North Sloquet Creek to near the crest of the Northridge encountered spotty but anomalous Au results to 400 ppb. It occurs within a pyritic felsic tuff which should be investigated further. No additional sampling occurred over these lines which were sampled as part of a preliminary follow-up to the airborne geophysics survey.

The soil geochemical survey has shown that a fine grained blue-grey coloured felsic tuff occurring within a low magnetic susceptibility zone is the primary geochemical target on both the Southridge and J.A.D.S. Anomalies. Multi-element signatures demonstrate the target to be 100 to 300 metres wide along the slope and parallel to stratigraphy. The boundaries of the zone(s) for follow-up have been well defined by soil geochemistry.

## **GEOPHYSICS (Figure 17)**

VLF-EM and magnetic surveys were carried out over the Southridge grid area. Readings were taken at 25m intervals on lines 30+000N and 30+050 N from 30+000E to 31+800E, on 30+100N and 30+200N from 30+000E - 32+000E, and on line 30+000N from 30+000E - 30+500E. Readings were also taken along the main logging road.

Anomalies correlate well with both the geology and the geochemical anomalies. Mapped north-south structures show strong EM signatures in many instances with coincident magnetic highs. Of particular interest is a very strong EM anomaly 50m south of the 900E showing, indicating a potentially well mineralized extension to this area.

During June, 1990, geophysical surveys consisting of Total Field Magnetics, Electromagnetics, and Induced Polarization were carried out on the area now covered by the Hot Spring Property. The purpose of the surveys was to aid in mapping of the local geology as well as the identification of potential economic mineral deposits.

The magnetometer and electromagnetic surveys were carried out by Peter E. Walcott and Associates Ltd. of Coquitlam, B.C. while the I.P. survey was contracted to Pacific Geophysical of Vancouver, B.C.

The magnetometer survey utilized EDA Omni 4 magnetometers with readings corrected for diurnal drift by the use of a recording magnetic base station. The EDA system records the Total Magnetic Field with an accuracy of within 1 nanoTesla. Readings were taken every 12.5m.

### Horizontal Loop Electromagnetic System

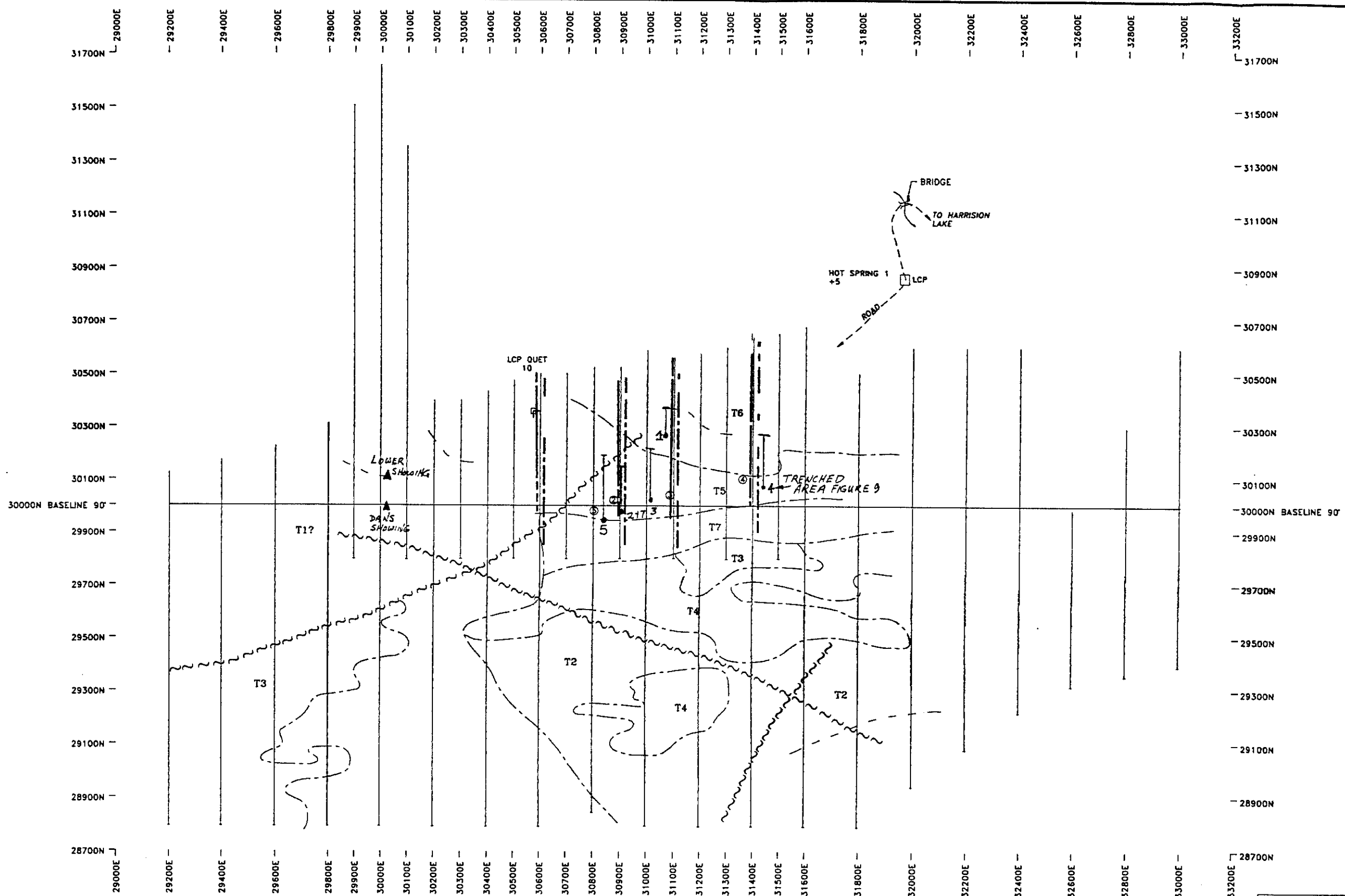
The HLEM survey, performed on selected lines, utilized the Scintrex SE-88 frequency EM system. This system is similar to conventional HLEM systems such as the MaxMin II except that the per-cent ration response of a transmitted and a reference frequency as compared to the usual in-phase and out-phase components is measured. Three transmitted frequencies, 337 Hz., 1012 Hz., and 3037 Hz., were used with a reference frequency of 112 Hz. To maximize the signal level the ratio response is integrated over a time period (usually less than 20 seconds), depending upon local noise levels. Coil spacing between receiver and transmitter was kept at 100m with a station interval of 25m.

### Induced Polarization System

The time-domain I.P. survey utilized a Phoenix IPT-1 powered by a Phoenix MG-1 motor generator capable of producing 1.2 kW of power. The receiver unit was an EDA IP-6 unit. The transmitted signal had a period of 8 seconds, 50% duty. The double dipole electrode array was used with dipole spacing of 25m and n=1 to n=6 being recorded. Chargeability was measured in units of mV/V.

### Total Field Magnetics

The total field magnetics survey has delineated 7 magnetic terrains, T.1 - T.7. The boundaries of these magnetic lithologies matches the inferred geologic boundaries to a fair degree.



**LEGEND**

- HIGH I.P. EFFECT
- - - MODERATE I.P. EFFECT
- HIGH RESISTIVITY ZONE
- T3 MAGNETIC TERRAIN
- - - MAGNETIC TERRAIN BOUNDARY
- - - DYKE
- ~ FAULT



MT. HOPE RESOURCES LTD.			
HOT SPRING PROPERTY			
<b>GEOPHYSICAL RESULTS COMPILATION</b>			
PROJECT NO:	SCALE:	DATE:	FIGURE:
H254101	1 : 15000	DEC., 1996	17

Two rock units of high magnetic susceptibility are found on the grid. Unit T.3, corresponding to a biotite-hornblende diorite unit, is more active and intense than the other high terrain, T.4, which is interpreted to be an andesite unit. A diorite plug feature is found within T.4.

Unit T.1 exhibits a quiet and low magnetic susceptibility and is speculated to represent either a felsic volcanic or sedimentary unit. T.1 appears to sandwich the diorite unit at the grid's east side. A unit of slightly higher susceptibility, T.2, interpreted to represent rhyolite lies on the east flank of T.1.

The contact between T.5 and T.7 is well defined by the southern extent of the anomalous I.P. zone. Both these units are mapped as felsic tuffs with T.7 more siliceous than T.5. The I.P. pseudo-sections show Unit T.7 to be highly resistive (as expected) and overlying less resistive bedrock. The north flank of T.5 is interpreted to be in contact with another distinct unit, T.6, which corresponds to a mapped dacite-andesite unit.

Two long conjugate faults have been interpreted from the magnetics, with the SW - NE fault defining the western extent of Unit T.5. A short NW - SE fault appears to cut Unit T.4 on its east side.

A N-S trending fault has been interpreted at the grid's south and corroborates better with a mapped fault than the short north - south faults inferred from geology found near the baseline at L. 30+000E and L. 30+200E.

Several interpreted dykes are shown on the basis of the known geology.

## SURVEY RESULTS

### HLEM Survey

The HLEM survey profiles show a resistive subsurface with no significant variations in conductance with the possible exception of the south end of L30+800E which has a slight increase in sub-surface conductance.

### I.P. Survey

The I.P. survey was performed on four lines: L. 30+600E, L. 30+900E, L. 31+100E, and L. 31+400E and the interpretation is shown on the geophysical compilation map (Figure 19). Background chargeability values are considered to be 20 mV/V and less. All four lines yield significant responses over a wide extent within magnetic units T.5 and T.6. Good continuity from line to line of the anomalies is exhibited with sharp termination of the anomalous responses at the contact between Units T.4 and T.5.

The most attractive response is found at near surface on L 31+400E/30+450N. Other attractive targets appear at: L 31+100E/30+262.5N, d=60m.<sup>1</sup>, L. 30+900E/30+350N, d=10m., and L. 30+600E/30+150N, d=25m.

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<sup>1</sup> d=60m represents the depth to the top of the target in a direction perpendicular to average topographic slope.



### Conclusions

The ground magnetics survey show good corroboration with the known geology. The HLEM survey has been shown ineffective in delineating conductive zones within bedrock which may host mineralization. Structures control the extent of the lithologic units to a certain degree. More magnetics and I.P. surveys may be done to better define the extent of magnetics units T.5 and T.6 which appear to host the significant I.P. responses.

## CONCLUSIONS AND RECOMMENDATIONS

Work to date has resulted in several areas being discovered with gold values greater than 2 g/t (0.06 oz/ton) over widths between 60 to 110 metres. Grades and continuity of mineralization increase toward the eastern grid area on the Southridge part of the property. Diamond drilling indicates that the true thickness of the gold enriched altered volcanics is over 150 metres in thickness as indicated by drillhole HS97-10.

Base metal mineralization with significant gold grades occurs throughout the stratabound Lower Zone from 30+600E to 31+500E and from 50 to 100 metres across strike. The continuity of mineralization is yet to be outlined but there are strong indications of a persistent mineralized area carrying potentially economic gold grades. The extension of the zone south of 29+700N has not been investigated to date but there are deeply oxidized outcrops of silicified tuffs at least as far as 29+650N. The 30°S dip of the stratabound zone projects southward down the south slope of the ridge to Sloquet Creek close to the topographic surface.

Given the extent of the mineralized zone on surface (up to 70,000 square metres from 30+600E to 31+500E) there is major potential for establishment of a high tonnage, low grade gold deposit. The steepness of the terrain and the deep oxidation and leaching widespread in surface outcrops mean that surface trenching is difficult over much of the area and the extent and grade of the zone will only be established by drilling. The limited diamond drilling conducted in 1990 intersected low-grade mineralization over true thicknesses of up to 100 metres.

The rest of the claim area also holds considerable untested potential. In particular, several mineralized showings in Simpson Creek remain to be followed up by trenching and diamond drilling.

An airborne magnetometer and HLEM survey flown over the entire property showed the Southridge Zone to be a highly resistive rock package containing two highly magnetic areas representing the eastern edge of the Pemberton Diorite and a nearby related stock. The airborne magnetometer survey further showed the magnetic intrusives to be more extensive than ground mapping indicated, perhaps due to a thin veneer of volcanic rock with intrusive rock below. The airborne survey further indicated that zones of low resistivity, roughly correlatable with creek beds are present over much of the property. There are some locations though where low resistive zones are not directly related to known creeks and these areas should be followed up further with prospecting, geological mapping and sampling and I.P. geophysics.

Geological mapping on one small portion of the property, the Southridge Zone, indicated the area to be a moderately south dipping package of silicified, felsic, fine to lapilli tuffs, overlying intermediate lapilli tuffs. Au, Ag, Zn and Pb mineralization is seen to be confined to the blue-grey, silicified felsic tuffs. Soil geochemical surveying further indicated this unit to be the most anomalous unit geochemically while I.P. geophysics demonstrated that the unit has a high sulfide background but does not generate the highest I.P. responses.

The Southridge Zone represents a prime drilling target and was tested in 1990 by seven short holes and eleven holes in 1997 on sections between L30+774E and L31+410E. Hole NQ90-1 was collared too low in the sequence to test the mineralized horizon. Hole NQ90-4 intersected 615 ppb Au over 66 metres and NQ90-2 returned a 57.7 metre interval averaging 839 ppb Au. Hole 97-1 gave 34.96 metres averaging 1.290g/tonne gold and 42.26g/tonne silver including 6.03 metres which averaged 2.66g/tonne Au and 42.16g/tonne Ag. The drilling campaign by Noranda did not adequately test the western targets that were identified.

After proposed trenching and geological mapping to the west of 30+800E, additional drilling may be required to adequately test the area around Dan's Showing and the Lower Showing. The precious metal system although low grade as presently known, is increasing in thickness (holes HS96-9 & 10) to the west. Elevated gold/silver values were encountered over a core length (-90°) of 144 metres.

Three soil geochemically anomalous areas, the J.A.D.S., Danbus and Northridge Zones should be followed up with additional ground surveys including detailed geological mapping, rock sampling and I.P. geophysics. Ground HLEM geophysical surveying was seen to be an ineffective exploration tool and should be avoided in other parts of the property.

Additional detailed geological mapping and trenching are warranted before further drilling is undertaken to continue exploring this promising prospect. As access is opened by new logging roads along South Sloquet Creek scheduled for early 1998 and in the future for small business program Licenses from Forestry, the J.A.D.S. and Danbus gold-in-soil anomalies should be mapped and trenched. A three phase budget for future exploration is recommended in the next section for a total of \$440,000.00.

*Respectfully submitted,*

J. T. Shearer, M.Sc., P.Geol.  
January 26, 1998

## PROPOSED BUDGET 1998 HOT SPRINGS CLAIMS

Phase III: follow-up diamond drilling, ground geophysics, detail geology, trenching (excavator), contract diamond drilling, senior geologist, helper, geologist, prospector, cook.

Contract diamond drilling, 10,000 ft at \$23 per foot	\$ 231,000
Support personnel	
Senior geologist, 90 days at \$300 per day	31,500
Assistant - core splitter, 90 days at \$175 per day	15,750
Cook, 90 days at \$140 per day	12,600
Transportation	
Truck rental, 90 days at \$60 per day	5,400
Fuel	800
Transportation (Air Southwest)	1,200
Survey control	8,000
Ground geophysics	12,000
Helicopter, 3.8 hrs at \$850/hr	3,230
Cat for drill, 50 hours at \$75/hr	3,750
Food, 8 persons at 90 days at \$25 per man day	7,875
Camp supplies	8,000
Office supplies	1,000
Geological mapping and prospecting, 40 days at \$700 per day	28,000
Analytical	
600 drill core at \$25 per sample	15,000
300 rock samples at \$18.50 per sample	5,550
400 soil samples at \$16.50 per sample	6,600
Drafting, 80 hours at \$25 per hour	2,000
Computer Cast	10,000
Report preparation	<u>4,000</u>
Environmental Reclamation	36,745
<b>Total Phase III</b>	<b><u>\$ 440,000</u></b>

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# **APPENDIX I**

## **STATEMENT OF COSTS 1997**

**January 26, 1998**

**Appendix I  
STATEMENT OF COSTS  
1997 DIAMOND DRILL PROGRAM  
HOT SPRING PROJECT**

**Wages & Benefits**

J. T. Shearer, M.Sc., P.Geo., Geologist August 20 - November 25, 1997 66 days @ \$350 per day	\$ 23,100.00
W. B. Lennan, B.Sc., P.Geo., Geologist August 20 - November 1, 1997 61 days @ \$350 per day	\$ 18,337.00
Peter Slinn, Coresplitter August 28 - September 10, 1997 11 days @ \$150 per day	\$ 1,750.00
Dave A. Heino, Prospector August 20 - November 1, 1997 60 days @ \$250 per day	\$ 14,850.00
S. L. Shearer, Coresplitter September 10 - October 30, 1997 39.5 days @ \$150 per day	\$ 5,925.00
	\$ 63,962.00
GST on Wages	\$ 4,477.34
Subtotal	\$ 68,439.34
 Contract Diamond Drilling	
F. Boisvenu Drilling Ltd. including 6001 feet of NQ core & Mob & demob @ \$19.50/ft	\$ 181,424.70
Analytical (Chemex Labs)	\$ 26,525.00
Transportation	
Ford 4x4 Trucks, Fully equipped	\$ 5,245.00
Gas	\$ 653.00
Helicopter, AirSouthwest Freight & Passengers	\$ 1,832.78
Camp Rental, (Lineham Logging)	\$ 1,587.19
Camp Supplies, Propane, Food, etc.	\$ 2,249.88
Environmental Reports (SRK Consultants) (required by Forestry & Environment for road rehabilitation)	\$ 9,500.00
Excavator - Dump truck (Lineham Logging)	\$ 8,808.48
Computer Processing	\$ 1,200.00
Report Preparation	\$ 1,500.00
Word Processing and Reproduction	\$ 1,050.00
<b>TOTAL</b>	<b>\$ 311,500.00</b>



# **APPENDIX II**

## **STATEMENT OF QUALIFICATIONS**

**January 26, 1998**

## APPENDIX II

### Statement of Qualifications

I, Johan T. Shearer of 1817 Greenmount Avenue, in the City of Port Coquitlam in the Province of British Columbia, do hereby certify:

1. I am a graduate of the University of British Columbia (B.Sc., 1973) in Honours Geology, and the University of London, Imperial College (M.Sc., 1977).
2. I have practiced my profession as an Exploration Geologist, continuously since graduation, for more than 25 years, and have been employed by such mining companies and McIntyre Mines Ltd., J. C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd. I am presently employed by Homegold Resources Ltd.
3. I am a fellow of the Geological Association of Canada (Fellow No. F439). I am also a member of the Canadian Institute of Mining and Metallurgy and the Geological Society of London. I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (P.Geo., Member No. 19,279).
4. I am an independent consulting geologist employed since December 1986 by Homegold Resources Ltd. at #5-2330 Tyner St., Port Coquitlam B. C. V3C 2Z1.
5. I am the author of a report entitled "Diamond Drilling Report on the Hot Spring Property." dated January 26, 1998.
6. I have visited the area numerous times since 1987 and carried out geological mapping, drill core logging and sample collection. I supervised the 1997 diamond drill program between August 20 and October 24, 1997. I am familiar with the regional geology and geology of nearby properties. I have become familiar with the previous work conducted on the Hot Spring Property by examining in detail the available reports, plans and sections, and have discussed previous work with persons knowledgeable of the area.
7. I have a share position in Mount Hope Resources Corp. and I am a director of the company.

Dated at Port Coquitlam, British Columbia, this 26th day of January 1998.

---

J. T. Shearer, M.Sc., F.G.A.C., P.Geo.

# **APPENDIX III**

## **ASSAY CERTIFICATES**

**January 26, 1998**



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project:  
Comments: ATTN: SCOTT ANGUS

Page Number : 1  
Total Pages : 2  
Certificate Date: 24-OCT-97  
Invoice No. : 19746863  
P.O. Number :  
Account : PIX

## CERTIFICATE OF ANALYSIS

A9746863

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N302700	205 294	0.130	23	284	0.5						
N302701	205 294	0.085	44	890	0.3						
N302702	205 294	0.210	110	1800	1.0						
N302703	205 294	0.075	40	202	< 0.2						
N302704	205 294	1.160	212	1650	1.7						
N302705	205 294	0.315	42	354	1.1						
N302706	205 294	0.065	8	820	0.2						
N302707	205 294	0.045	4	258	< 0.2						
N302708	205 294	0.020	3	130	0.3						
N302709	205 294	0.010	< 1	82	0.2						
N302710	205 294	0.010	2	113	0.5						
N302711	205 294	0.040	3	53	0.8						
N302712	205 294	0.050	3	421	1.4						
N302713	205 294	0.055	6	610	4.6						
N302714	205 294	0.035	6	357	1.8						
N302715	205 294	0.020	2	115	0.5						
N302716	205 294	0.010	<< 1	93	0.2						
N302717	205 294	0.020	<< 1	114	0.2						
N302718	205 294	0.020	10	126	< 0.2						
N302719	205 294	0.010	5	120	0.3						
N302720	205 294	0.050	2	131	0.5						
N302721	205 294	< 0.005	3	62	0.3						
N302722	205 294	< 0.005	< 1	48	0.2						
N302723	205 294	< 0.005	2	50	0.3						
N302724	205 294	< 0.005	< 1	62	0.2						
N302725	205 294	< 0.005	< 1	46	0.2						
N302726	205 294	< 0.005	5	37	< 0.2						
N302727	205 294	< 0.005	5	48	<< 0.2						
N302728	205 294	0.010	7	37	< 0.2						
N302729	205 294	< 0.005	4	56	0.3						
N302730	205 294	0.025	8	179	0.2						
N302731	205 294	0.010	7	355	0.6						
N302732	205 294	< 0.005	5	160	0.4						
N302733	205 294	< 0.005	7	116	< 0.2						
N302734	205 294	< 0.005	12	98	< 0.2						
N302735	205 294	< 0.005	3	54	< 0.2						
N302736	205 294	< 0.005	2	48	< 0.2						
N302737	205 294	< 0.005	6	51	< 0.2						
N302738	205 294	< 0.005	4	81	< 0.2						
N302739	205 294	< 0.005	6	63	< 0.2						

CERTIFICATION:

*Hart Bechler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
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Account :PIX

## CERTIFICATE OF ANALYSIS

A9746863

SAMPLE	PREP CODE		Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N302740	205	294	< 0.005	3	46	< 0.2						
N302741	205	294	< 0.005	4	67	< 0.2						
N302742	205	294	< 0.005	3	68	< 0.2						
N302743	205	294	< 0.005	2	71	< 0.2						
N302744	205	294	< 0.005	3	97	< 0.2						
N302745	205	294	< 0.005	3	96	< 0.2						
N302746	205	294	< 0.005	10	79	< 0.2						
N302747	205	294	< 0.005	2	73	< 0.2						
N302748	205	294	0.010	8	68	0.2						
N302758	--	--	NotRcd	NotRcd	NotRcd	NotRcd						
N302759	205	294	0.005	12	100	0.2						
N302760	205	294	0.025	11	206	0.3						
N302761	205	294	0.080	28	169	0.2						
N302762	205	294	0.015	15	200	< 0.2						
N302763	205	294	0.155	25	275	2.2						
N302764	205	294	< 0.010	10	268	< 0.2						
N302765	205	294	< 0.005	8	113	< 0.2						

CERTIFICATION:

*Hart Bechler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project : HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

Page Number : 1  
 Total Pages : 2  
 Certificate Date: 24-OCT-97  
 Invoice No. : I9747077  
 P.O. Number :  
 Account : PIX

## CERTIFICATE OF ANALYSIS

A9747077

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
302766	205 226	0.015	0.2	7	105						
302767	205 226	0.005	0.2	5	142						
302768	205 226	0.010	< 0.2	46	221						
302769	205 226	0.010	< 0.2	7	115						
302770	205 226	< 0.005	< 0.2	6	113						
302771	205 226	< 0.005	< 0.2	4	192						
302772	205 226	< 0.005	0.3	26	208						
302773	205 226	< 0.005	0.2	9	145						
302774	205 226	< 0.005	< 0.2	9	169						
302775	-- --	NotRed	NotRed	NotRed	NotRed						
302776	205 226	< 0.005	< 0.2	8	115						
302777	205 226	0.020	0.2	7	155						
302778	205 226	0.090	0.8	14	610						
302779	205 226	0.070	0.4	6	190						
302780	205 226	0.110	6.3	75	66						
302781	205 226	0.090	7.0	78	340						
302782	205 226	0.095	7.0	77	77						
302783	205 226	0.145	9.0	82	68						
302784	205 226	0.080	3.2	50	20						
302785	205 226	0.045	1.8	22	128						
302786	205 226	0.095	2.6	44	36						
302787	205 226	0.045	1.1	18	105						
302788	-- --	NotRed	NotRed	NotRed	NotRed						
302789	205 226	0.040	1.7	22	24						
302790	205 226	0.035	1.7	33	16						
302791	205 226	0.035	3.2	22	6						
302792	205 226	0.110	8.8	102	37						
302793	205 226	0.095	5.4	50	148						
302794	205 226	0.120	8.3	75	31						
302795	205 226	0.255	20.8	205	28						
302796	205 226	0.210	11.4	126	22						
302797	205 226	0.220	10.0	95	15						
302798	205 226	0.395	26.0	175	24						
302799	205 226	0.165	10.5	73	14						
302800	205 226	0.145	11.7	62	38						
302801	205 226	0.255	26.0	100	78						
302802	205 226	0.145	12.0	60	9						
302803	205 226	0.575	44.0	82	27						
302804	205 226	0.470	16.6	65	33						
302805	205 226	0.145	16.0	98	74						

CERTIFICATION:

*Scott Angus*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOTSPRING  
Comments: ATTN: SCOTT ANGUS

Page Number :2  
Total Pages :2  
Certificate Date: 24-OCT-97  
Invoice No. :19747077  
P.O. Number :  
Account :PIX

## CERTIFICATE OF ANALYSIS

A9747077

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
302806	205 226	0.180	22.2	72	27						
302807	205 226	0.210	34.5	140	42						
302808	205 226	0.350	56.0	75	41						
302809	205 226	0.195	18.5	88	47						
302810	205 226	0.125	7.0	43	42						
302811	205 226	0.070	6.6	42	21						
302812	205 226	0.250	18.0	105	31						
302813	205 226	0.070	6.2	142	42						
302814	205 226	0.115	7.6	200	80						
302815	205 226	0.075	5.5	100	101						
302816	205 226	0.010	1.0	25	129						
302817	205 226	0.005	0.5	11	104						
302818	205 226	< 0.005	0.6	24	133						
302819	205 226	0.295	17.5	58	148						
302820	205 226	0.125	6.8	28	89						
302821	205 226	0.090	4.0	13	82						
302822	205 226	0.065	4.2	16	154						
302823	205 226	0.020	1.4	33	144						
302824	205 226	0.125	3.3	9	81						
302825	205 226	0.190	7.7	21	141						
302826	205 226	0.140	8.0	15	115						
302827	205 226	0.295	20.0	30	263						
302828	205 226	0.105	7.3	25	136						
302829	205 226	0.130	8.4	14	47						
302830	205 226	0.045	4.0	5	83						
302831	205 226	0.090	10.5	13	121						
302832	205 226	0.040	2.3	7	278						
302833	205 226	0.025	3.0	4	93						
302834	205 226	0.020	2.8	8	108						
302835	205 226	0.030	3.1	6	114						

CERTIFICATION:

*Scott Buchler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

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 Total Pages : 2  
 Certificate Date: 30-OCT-97  
 Invoice No. : 19747911  
 P.O. Number :  
 Account : PIX

Project :  
 Comments: ATTN: SCOTT ANGUS

## CERTIFICATE OF ANALYSIS

### A9747911

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N302844	205 226	0.020	2	270	0.6						
N302845	205 226	0.065	18	168	5.4						
N302846	205 226	0.010	2	420	0.7						
N302847	205 226	0.045	12	132	7.2						
N302848	205 226	0.085	33	375	15.5						
N302849	205 226	0.085	27	345	10.8						
N302859	205 226	0.025	11	98	3.0						
N302860	205 226	0.030	7	29	3.2						
N302861	205 226	0.030	6	88	3.4						
N302862	205 226	0.020	8	112	1.6						
N302863	205 226	0.020	7	81	1.2						
N302864	205 226	0.050	9	84	10.2						
N302873	205 226	0.040	9	395	1.4						
N302874	205 226	0.340	30	420	2.5						
N302875	205 226	0.100	40	205	1.7						
N302876	205 226	0.030	9	154	0.3						
N302877	205 226	0.090	90	860	2.6						
N302878	205 226	0.035	10	230	0.8						
N302879	205 226	0.030	58	350	1.3						
N302880	205 226	0.060	52	81	2.2						
N302881	205 226	0.070	210	1500	3.5						
N302882	205 226	0.030	21	260	1.0						
N302883	205 226	0.035	27	760	1.5						
N302884	205 226	0.095	170	172	4.0						
N302885	205 226	0.040	51	300	1.2						
N302886	205 226	0.040	40	158	0.8						
N302887	205 226	0.055	15	104	0.6						
N302888	205 226	0.080	10	640	1.2						
N302889	205 226	0.045	12	68	0.8						
N303003	205 226	0.020	105	330	0.4						
N303004	205 226	0.010	52	148	0.6						
N303005	205 226	0.030	25	198	1.1						
N303006	205 226	0.035	56	245	0.7						
N303007	205 226	0.090	160	560	1.5						
N303008	205 226	0.440	155	645	1.7						
N303009	205 226	0.185	212	2150	2.1						
N303010	205 226	0.245	302	1500	3.6						
N303011	205 226	0.230	390	2800	3.8						
N303035	205 226	0.050	26	78	1.7						
N303036	205 226	0.035	22	86	1.0						

CERTIFICATION: Scott Bickler





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Page Number :2  
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Certificate Date: 30-OCT-97  
Invoice No. : 19747911  
P.O. Number :  
Account : PIX

Project :  
Comments: ATTN: SCOTT ANGUS

## CERTIFICATE OF ANALYSIS A9747911

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N303037	205 226	0.030	18	38	1.2						
N303038	205 226	0.030	27	76	0.8						
N303039	205 226	0.050	20	69	1.7						

CERTIFICATION: Hart Beckler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOTSPRING  
Comments: ATTN: SCOTT ANGUS

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Invoice No. : 19748779  
P.O. Number :  
Account : PIX

## CERTIFICATE OF ANALYSIS

A9748779

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N303764	205 294	0.035	85	405	0.4						
N303765	205 294	0.030	90	420	0.2						
N303766	-- --	NotRed	NotRed	NotRed	NotRed						
N303767	-- --	NotRed	NotRed	NotRed	NotRed						
N303768	205 294	0.305	225	2100	1.6						
N303769	205 294	1.620	550	4300	5.2						
N303770	205 294	2.18	1050	3700	11.5						
N303771	205 294	2.32	1500	>10000	13.4						
N303772	205 294	3.80	3250	>10000	18.2						
N303773	205 294	1.220	980	>10000	7.0						
N303774	205 294	0.325	200	1630	4.7						
N303775	205 294	1.140	750	4700	6.3						
N303776	205 294	1.315	780	3600	8.2						
N303777	205 294	0.635	380	1750	4.4						
N303778	205 294	0.920	395	2400	4.4						
N303779	205 294	7.76	950	2800	9.0						
N303780	205 294	0.635	880	2100	4.5						
N303781	205 294	0.590	600	>10000	9.8						
N303782	205 294	0.720	475	6900	12.5						
N303783	205 294	0.595	900	6500	11.2						
N303784	205 294	0.205	600	5000	3.6						
N303785	205 294	0.165	58	620	0.4						
N303786	205 294	0.260	80	5900	1.5						
N303787	205 294	0.220	110	1810	1.5						
N303788	205 294	0.185	230	1190	1.8						
N303789	205 294	0.230	160	850	1.9						
N303838	205 294	0.255	2200	3400	6.0						
N303839	205 294	0.030	80	620	0.4						
N303840	205 294	0.020	48	195	< 0.2						
N303841	205 294	0.150	70	382	1.2						
N303842	205 294	0.070	90	710	0.4						
N303843	205 294	0.070	95	220	0.3						
N303844	205 294	0.055	72	290	0.2						
N303845	-- --	NotRed	NotRed	NotRed	NotRed						
N303846	205 294	0.050	200	760	0.4						
N303847	205 294	0.080	156	1120	0.3						
N303848	205 294	0.750	270	1470	2.0						
N303849	205 294	0.350	980	2600	3.1						
N303850	205 294	0.245	900	3500	2.9						

CERTIFICATION:

*Hart Bichler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

Page Number : 1  
 Total Pages : 6  
 Certificate Date: 23-OCT-97  
 Invoice No. : 19746734  
 P.O. Number :  
 Account : PIX

## CERTIFICATE OF ANALYSIS

### A9746734

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
65812 ✓	205 226	0.335	2.0	225	630						
65813	205 226	0.065	1.4	122	168						
65814	205 226	0.080	0.8	190	405						
65815	205 226	0.075	0.3	106	199						
65816	205 226	0.280	3.3	276	680						
65817	205 226	0.080	1.7	155	84						
65819	205 226	0.020	< 0.2	18	272						
65820	205 226	0.030	< 0.2	23	1530						
65821	205 226	0.015	3.3	650	159						
65822	205 226	0.010	0.5	98	301						
65823	205 226	0.615	7.5	830	2300						
65824	205 226	0.810	13.7	620	3500						
65825	205 226	0.395	8.5	215	1260						
65826	205 226	0.025	1.6	115	1210						
65827	205 226	0.270	2.5	465	>10000						
65828	205 226	0.160	1.6	350	>10000						
65829	205 226	0.095	0.7	132	1590						
65830	205 226	0.050	0.6	64	448						
65831	205 226	0.005	0.3	28	96						
65832	205 226	0.055	0.7	40	720						
65833	205 226	< 0.015	< 0.2	32	121						
65834	205 226	< 0.005	< 0.2	19	60						
65835	205 226	< 0.005	< 0.2	7	71						
65836	205 226	< 0.005	< 0.2	15	32						
65837	205 226	< 0.005	< 0.2	14	54						
65838	205 226	< 0.005	< 0.2	40	80						
65839	205 226	< 0.005	< 0.2	48	109						
65840	205 226	< 0.005	< 0.2	23	124						
65841	205 226	< 0.005	< 0.2	34	391						
302501	205 226	< 0.005	< 0.2	36	155						
302502	205 226	< 0.005	< 0.2	15	103						
302503	205 226	< 0.005	0.5	116	281						
302504	205 226	< 0.005	0.5	160	285						
302505	205 226	< 0.005	< 0.2	13	112						
302506	205 226	< 0.005	< 0.2	5	57						
302507	205 226	0.250	< 0.5	18	270						
302508	205 226	0.020	< 0.2	8	124						
302509	205 226	0.015	0.5	62	195						
302510	205 226	0.010	0.3	23	159						
302511 ✓	205 226	0.005	0.2	15	98						

CERTIFICATION: *Hart Bickler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOTSPRING  
Comments: ATTN: SCOTT ANGUS

Page Number :2  
Total Pages :6  
Certificate Date: 23-OCT-97  
Invoice No. :19746734  
P.O. Number :  
Account :PIX

## CERTIFICATE OF ANALYSIS

### A9746734

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
302512	205 226	0.005	< 0.2	23	135						
302513	205 226	0.280	4.4	340	3100						
302514	205 226	0.440	4.2	355	2700						
302515	205 226	0.480	3.5	95	159						
302516	205 226	0.280	1.6	102	340						
302517	205 226	0.190	1.9	134	220						
302518	205 226	0.155	2.3	55	178						
302519	205 226	0.700	8.0	250	1540						
302520	205 226	0.980	8.5	305	498						
302521	205 226	1.440	8.2	258	1110						
302522	205 226	0.040	0.5	29	125						
302523	205 226	0.010	0.2	17	99						
302524	205 226	0.010	0.3	26	119						
302525	205 226	< 0.005	< 0.2	38	64						
302526	205 226	< 0.005	< 0.2	54	92						
302527	205 226	0.010	< 0.2	22	117						
302528	205 226	0.055	0.4	33	147						
302529	205 226	0.070	0.3	26	190						
302530	205 226	0.390	2.7	206	3600						
302531	205 226	0.240	1.3	76	238						
302532	205 226	0.340	2.3	66	590						
302533	205 226	0.045	0.5	35	161						
302534	205 226	0.230	1.2	27	312						
302535	205 226	0.250	2.9	175	800						
302536	205 226	0.140	1.0	14	130						
302537	205 226	0.150	1.5	32	234						
302538	205 226	0.050	0.6	35	141						
302539	205 226	0.020	< 0.2	6	118						
302540	205 226	< 0.005	< 0.2	17	108						
302541	205 226	< 0.005	< 0.2	17	89						
302542	205 226	< 0.005	< 0.2	< 1	83						
302543	205 226	0.005	< 0.2	< 1	109						
302544	205 226	0.020	< 0.2	5	185						
302545	205 226	0.095	1.9	170	730						
302546	205 226	0.045	0.7	78	161						
302547	205 226	0.075	0.7	5	181						
302548	205 226	0.040	0.5	10	168						
302549	205 226	0.410	5.0	462	930						
302550	205 226	0.070	1.0	45	212						
302551	205 226	0.050	0.6	22	147						

CERTIFICATION: Hart Bickler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

Page Number : 3  
 Total Pages : 6  
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 Invoice No. : I9746734  
 P.O. Number :  
 Account : PIX

## CERTIFICATE OF ANALYSIS

A9746734

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
302552	205 226	0.010	0.3	3	136						
302553	205 226	0.010	0.4	< 1	169						
302554	205 226	0.025	0.7	4	442						
302555	205 226	0.035	0.5	< 1	217						
302556	205 226	0.010	< 0.2	< 1	97						
302557	205 226	0.010	< 0.2	< 1	103						
302558	205 226	0.010	0.2	< 1	75						
302559	205 226	0.005	< 0.2	< 1	85						
302560	205 226	< 0.005	< 0.2	< 1	120						
302561	205 226	0.005	< 0.2	7	75						
302562	205 226	< 0.005	< 0.2	8	89						
302563	205 226	< 0.005	< 0.2	9	86						
302564	205 226	< 0.005	< 0.2	4	110						
302565	205 226	0.015	< 0.2	7	154						
302566	205 226	0.010	< 0.2	6	124						
302567	205 226	0.015	< 0.2	9	122						
302568	205 226	0.010	< 0.2	6	142						
302569	205 226	0.015	< 0.2	14	134						
302570	205 226	0.165	1.4	72	137						
302571	205 226	0.155	1.5	44	157						
302572	205 226	0.090	1.0	29	166						
302573	205 226	0.045	0.2	20	147						
302574	205 226	0.050	0.3	32	160						
302575	205 226	0.070	0.4	35	148						
302576	205 226	0.025	0.3	23	137						
302577	205 226	0.025	0.2	25	104						
302578	205 226	0.075	1.1	90	155						
302579	205 226	0.015	0.2	2	147						
302580	205 226	< 0.005	< 0.2	< 1	163						
302581	205 226	0.010	0.2	9	131						
302582	205 226	0.215	1.0	42	237						
302583	205 226	0.020	0.2	2	95						
302584	205 226	0.080	0.4	15	190						
302589	205 226	0.020	0.2	20	86						
302590	205 226	0.030	0.5	34	84						
302592	205 226	0.140	9.0	4000	5600						
302593	205 226	0.080	2.6	800	1270						
302594	205 226	0.080	2.9	960	1530						
302598	205 226	0.055	1.0	135	474						
302599	205 226	0.040	0.8	100	460						

CERTIFICATION:

*Scott Bickler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

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## CERTIFICATE OF ANALYSIS

### A9746734

SAMPLE	PREP CODE		Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
302600	205	226	0.030	0.8	12	83						
302601	205	226	0.035	0.4	7	42						
302603	205	226	0.030	0.9	112	590						
302604	205	226	0.020	0.4	9	80						
302605	205	226	0.015	0.4	21	146						
302607	205	226	0.060	1.0	83	241						
302608	205	226	0.115	0.4	50	185						
302609	205	226	0.015	0.3	7	65						
302611	205	226	< 0.005	0.2	12	85						
302612	205	226	< 0.005	< 0.2	6	95						
302613	205	226	< 0.005	< 0.2	2	71						
302614	205	226	< 0.005	< 0.2	7	85						
302615	205	226	< 0.005	< 0.2	8	75						
302616	205	226	0.015	0.3	12	190						
302617	205	226	0.030	0.4	3	64						
302618	205	226	0.015	0.3	10	51						
302619	205	226	0.010	0.3	6	108						
302620	205	226	0.005	< 0.2	< 1	132						
302621	205	226	< 0.005	< 0.2	13	122						
302622	205	226	< 0.005	< 0.2	12	105						
302623	205	226	< 0.005	< 0.2	28	134						
302624	205	226	< 0.005	< 0.2	25	84						
302625	205	226	< 0.005	< 0.2	28	85						
302626	205	226	< 0.005	< 0.2	13	115						
302627	205	226	< 0.005	< 0.2	22	150						
302628	205	226	< 0.005	< 0.2	10	116						
302629	205	226	< 0.005	< 0.2	50	270						
302630	205	226	< 0.005	< 0.2	9	201						
302631	205	226	0.020	< 0.2	40	339						
302632	205	226	0.030	0.8	35	1900						
302633	205	226	0.100	1.5	50	690						
302634	205	226	0.140	1.7	45	960						
302635	205	226	0.065	0.3	42	259						
302636	205	226	< 0.005	< 0.2	11	118						
302637	205	226	0.010	0.2	19	102						
302638	205	226	0.400	3.9	620	5300						
302639	205	226	0.060	0.7	120	560						
302640	205	226	0.050	0.5	31	800						
302641	205	226	0.015	< 0.2	18	88						
302642	205	226	0.010	< 0.2	14	211						

CERTIFICATION: Hart Buchler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
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To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOTSPRING  
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## CERTIFICATE OF ANALYSIS

### A9746734

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
302643	205 226	0.020	0.4	84	373						
302644	205 226	0.240	3.3	550	3900						
302646	205 226	0.590	2.4	170	1770						
302647	205 226	1.070	12.9	1500	4200						
302649	205 226	0.840	9.7	1650	7000						
302650	205 226	1.300	6.4	1550	4500						
302651	205 226	2.84	20.0	2900	8100						
302652	205 226	0.535	4.4	490	1220						
302655	205 226	0.245	5.3	2300	2400						
302657	205 226	0.290	4.2	450	2200						
302658	205 226	0.025	0.7	146	485						
302661	205 226	0.435	10.9	1500	6200						
302662	205 226	0.310	4.1	415	3600						
302665	205 226	0.365	3.4	1000	2200						
302666	205 226	0.015	0.2	56	103						
302667	205 226	0.020	0.4	54	1740						
302668	205 226	< 0.005	0.2	50	159						
302669	205 226	< 0.005	0.2	80	153						
302670	205 226	< 0.005	< 0.2	12	117						
302671	205 226	< 0.005	0.2	34	202						
302672	205 226	0.175	3.8	16	135						
302673	205 226	0.060	1.4	17	120						
302674	205 226	< 0.005	< 0.2	35	113						
302675	205 226	0.250	3.0	23	2500						
302676	205 226	0.495	3.0	315	1880						
302677	205 226	0.050	0.4	22	630						
302678	205 226	0.070	< 0.2	15	106						
302679	205 226	0.030	0.3	25	132						
302680	205 226	0.110	0.7	8	223						
302681	205 226	0.035	0.3	10	85						
302682	205 226	0.370	0.5	18	89						
302683	205 226	0.290	0.6	9	1240						
302684	205 226	0.335	0.7	14	1820						
302685	205 226	0.200	0.5	45	368						
302686	205 226	1.540	2.7	202	2400						
302687	205 226	0.255	0.9	64	266						
302688	205 226	0.015	< 0.2	28	144						
302689	205 226	< 0.005	< 0.2	9	101						
302690	205 226	< 0.005	< 0.2	21	106						
302691	205 226	0.070	0.3	48	940						

CERTIFICATION:

*Haut Bichler*



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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOTSPRING  
Comments: ATTN: SCOTT ANGUS

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## CERTIFICATE OF ANALYSIS A9746734

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Pb ppm	Zn ppm						
302692	205 226	0.020	0.2	38	199						
302693	205 226	0.100	1.0	88	1900						
302694	205 226	0.015	0.2	38	160						
302695	205 226	0.085	1.0	60	1500						
302696	205 226	0.330	3.8	750	272						
302697	205 226	0.020	0.4	56	300						
302698	205 226	0.250	2.1	90	1560						
302699	205 226	0.290	1.7	200	431						
511575	205 226	0.150	4.9	105	480						
511576	205 226	0.370	6.6	175	570						
511577	205 226	0.120	9.0	72	820						
511578	205 226	0.010	0.6	21	120						
511580	205 226	0.030	0.9	66	760						
511587	205 226	0.035	0.4	73	188						
511595	205 226	0.020	0.4	13	161						
511596	205 226	0.015	0.8	13	96						
511597	205 226	< 0.005	< 0.2	18	129						
511598	205 226	< 0.005	0.3	40	267						
511599	205 226	< 0.005	0.2	10	126						

CERTIFICATION:

*Hart Bickler*





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To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

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## CERTIFICATE OF ANALYSIS

A9748779

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N302890	205 294	0.030	6	53	0.9						
N302891	205 294	0.060	14	39	2.4						
N302892	205 294	0.025	16	60	0.6						
N302893	205 294	0.045	38	480	1.1						
N302894	205 294	0.040	60	430	2.0						
N302895	205 294	0.030	13	182	0.4						
N302896	205 294	0.025	28	159	0.6						
N302897	205 294	0.080	34	750	1.4						
N302898	205 294	0.060	37	260	0.8						
N302899	205 294	0.050	27	240	0.8						
N302900	205 294	< 0.005	11	100	< 0.2						
N303001	205 294	< 0.005	2	138	< 0.2						
N303002	205 294	0.020	21	120	0.5						
N303012	205 294	0.095	640	3200	2.2						
N303013	205 294	0.180	390	1960	2.8						
N303014	205 294	0.115	355	490	2.6						
N303015	205 294	0.155	1000	5300	3.8						
N303016	205 294	0.100	560	1400	2.5						
N303017	205 294	0.090	268	3800	1.5						
N303018	205 294	0.165	540	3400	3.0						
N303019	205 294	0.470	1100	>10000	6.6						
N303020	205 294	0.150	820	>10000	5.0						
N303021	205 294	0.290	190	850	2.4						
N303022	205 294	0.110	88	1550	1.1						
N303023	205 294	0.040	17	280	0.9						
N303024	205 294	0.095	32	630	1.4						
N303025	205 294	0.025	28	260	0.3						
N303026	205 294	0.045	22	500	0.4						
N303027	205 294	0.205	2150	5600	4.9						
N303028	205 294	0.035	40	350	0.5						
N303029	205 294	0.010	78	750	0.5						
N303030	205 294	0.115	58	88	3.5						
N303031	205 294	0.090	166	250	7.5						
N303032	205 294	0.215	900	360	10.0						
N303033	205 294	0.820	124	144	15.0						
N303034	205 294	0.120	80	128	5.0						
N303040	205 294	0.055	32	45	1.5						
N303041	205 294	0.095	20	42	2.0						
N303042	205 294	0.065	15	42	2.6						
N303043	205 294	0.095	20	41	1.8						

CERTIFICATION:

*Hart Bickler*



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212 Brooksbank Ave., North Vancouver  
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To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOTSPRING  
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## CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N303044	205 294	0.080	20	29	1.7						
N303045	205 294	0.100	27	32	6.7						
N303046	205 294	0.180	22	12	9.0						
N303047	205 294	0.160	22	20	9.5						
N303048	205 294	0.180	34	120	5.2						
N303049	205 294	0.190	21	64	2.2						
N303050	205 294	0.190	22	52	5.2						
N303051	205 294	0.145	21	22	2.2						
N303052	205 294	0.070	23	62	1.6						
N303053	205 294	0.040	48	28	1.1						
N303054	205 294	0.055	76	86	1.9						
N303055	205 294	0.030	24	62	1.5						
N303056	205 294	0.020	28	86	1.7						
N303057	205 294	0.050	45	430	2.1						
N303058	205 294	0.030	86	160	1.9						
N303059	205 294	0.100	365	1630	6.5						
N303060	205 294	< 0.005	100	82	5.2						
N303061	205 294	0.085	88	260	5.2						
N303062	205 294	0.080	78	610	4.3						
N303063	205 294	0.100	205	4700	9.0						
N303064	205 294	0.290	140	2900	15.2						
N303065	205 294	0.575	65	142	11.0						
N303066	205 294	0.425	202	400	18.4						
N303067	205 294	1.800	88	140	25.5						
N303068	205 294	0.720	32	136	6.4						
N303069	205 294	0.335	45	380	3.6						
N303070	205 294	0.495	87	800	10.8						
N303071	205 294	0.040	30	162	1.0						
N303072	205 294	0.070	54	310	2.0						
N303073	205 294	0.200	38	156	3.8						
N303074	205 294	0.680	76	280	9.9						
N303075	205 294	0.495	75	380	13.2						
N303076	205 294	0.680	20	112	7.8						
N303077	205 294	0.450	32	160	6.2						
N303078	205 294	0.535	25	78	5.2						
N303079	205 294	1.055	32	174	15.2						
N303080	205 294	0.815	25	87	13.7						
N303081	205 294	0.640	82	370	34.0						
N303082	205 294	0.250	53	160	6.4						
N303083	205 294	0.195	66	196	4.6						

CERTIFICATION:

*Hart Buchler*



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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
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To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

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 Account : PIX

## CERTIFICATE OF ANALYSIS

### A9748779

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N303084	205 294	0.195	84	310	4.0						
N303085	205 294	0.220	80	160	3.5						
N303086	205 294	0.940	85	375	16.4						
N303087	205 294	0.495	44	115	4.7						
N303088	205 294	0.605	70	185	11.4						
N303089	205 294	0.290	36	180	2.4						
N303090	205 294	0.725	100	620	9.0						
N303091	205 294	< 0.005	< 1	179	< 0.2						
N303092	205 294	0.575	85	2300	23.6						
N303093	205 294	0.570	62	880	22.4						
N303094	205 294	0.385	33	95	6.8						
N303095	205 294	0.130	25	65	2.2						
N303096	205 294	0.010	5	650	< 0.2						
N303097	205 294	0.090	37	450	0.8						
N303098	205 294	0.050	50	291	1.0						
N303099	205 294	0.105	28	52	0.7						
N303100	205 294	0.080	25	73	0.2						
N303701	205 294	0.020	8	104	< 0.2						
N303702	205 294	0.010	8	146	< 0.2						
N303703	205 294	< 0.005	8	40	< 0.2						
N303704	205 294	< 0.005	8	69	< 0.2						
N303705	205 294	< 0.005	10	50	1.6						
N303706	205 294	< 0.005	13	73	< 0.2						
N303707	205 294	< 0.005	9	55	< 0.2						
N303708	205 294	< 0.005	21	60	< 0.2						
N303709	205 294	< 0.005	12	73	< 0.2						
N303710	205 294	< 0.005	8	50	< 0.2						
N303711	205 294	< 0.005	9	50	< 0.2						
N303712	205 294	< 0.005	7	52	< 0.2						
N303713	205 294	< 0.005	7	55	< 0.2						
N303714	205 294	< 0.005	23	79	< 0.2						
N303715	205 294	< 0.005	18	69	< 0.2						
N303716	205 294	0.030	13	66	< 0.2						
N303717	205 294	< 0.005	5	71	< 0.2						
N303718	205 294	< 0.005	18	109	< 0.2						
N303719	205 294	< 0.005	18	153	< 0.2						
N303720	205 294	0.010	11	106	< 0.2						
N303721	205 294	< 0.005	21	129	< 0.2						
N303722	205 294	< 0.005	14	217	< 0.2						
N303723	205 294	0.080	75	4300	< 0.2						

CERTIFICATION:

*Hart Bichler*



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To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
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## CERTIFICATE OF ANALYSIS

A9748779

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N303724	205 294	0.015	31	175	0.2						
N303725	205 294	0.060	22	202	1.0						
N303726	205 294	0.050	24	148	0.2						
N303727	205 294	0.040	16	209	0.3						
N303728	205 294	0.030	7	115	< 0.2						
N303729	205 294	0.030	19	124	0.2						
N303730	205 294	0.250	60	2000	3.4						
N303731	205 294	0.040	60	1600	0.7						
N303732	205 294	0.190	65	970	2.8						
N303733	205 294	0.065	85	530	1.1						
N303734	205 294	0.080	30	710	0.7						
N303735	205 294	0.060	50	225	0.6						
N303736	205 294	0.070	125	340	0.7						
N303737	205 294	0.035	40	147	0.3						
N303738	205 294	0.170	27	610	3.2						
N303739	205 294	0.135	40	407	1.4						
N303740	205 294	0.135	26	1320	2.6						
N303741	205 294	0.045	36	103	0.6						
N303742	205 294	0.105	34	182	2.2						
N303743	205 294	0.225	38	299	3.7						
N303744	205 294	0.200	19	176	2.4						
N303745	205 294	0.020	27	530	0.2						
N303746	205 294	0.020	38	240	< 0.2						
N303747	205 294	0.020	68	200	< 0.2						
N303748	205 294	0.020	85	168	0.2						
N303749	205 294	0.490	230	690	3.2						
N303750	205 294	1.205	420	910	5.6						
N303751	205 294	1.900	1150	5100	14.6						
N303752	205 294	1.030	700	4000	8.6						
N303753	205 294	0.215	200	405	1.0						
N303754	205 294	0.260	282	1620	1.3						
N303755	205 294	0.155	230	1660	1.3						
N303756	205 294	0.035	53	840	< 0.2						
N303757	205 294	0.135	56	5200	1.0						
N303758	205 294	0.090	29	2500	0.5						
N303759	205 294	0.065	15	4500	0.7						
N303760	205 294	0.025	6	282	< 0.2						
N303761	205 294	0.055	165	322	0.7						
N303762	205 294	0.430	2250	6300	5.7						
N303763	205 294	0.250	2800	>10000	5.2						

CERTIFICATION:

*Hart Buchler*





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212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HS97-01  
Comments: CC: J.T. SHEARER

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Invoice No. : 19742826  
P.O. Number :  
Account : PIX

## CERTIFICATE OF ANALYSIS

### A9742826

SAMPLE	PREP CODE	Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R				
M604090	205 294	0.580	118	460	800	9.6				
M604091	205 294	0.060	122	200	365	2.1				
M604092	205 294	0.035	102	165	330	1.4				
M604093	205 294	0.050	105	175	280	2.2				
M604094	205 294	0.035	98	200	405	0.8				
M604095	205 294	0.030	96	44	305	0.5				
M604096	205 294	0.060	134	64	215	1.5				
M604097	205 294	0.020	126	122	1300	0.5				
M604098	205 294	0.035	86	22	550	0.6				
M604099	205 294	0.010	87	20	215	0.3				
M604100	205 294	0.080	61	11	119	1.1				
M604101	205 294	0.160	69	20	151	2.3				
M604102	205 294	0.015	87	12	235	0.2				
M604103	205 294	0.030	111	95	650	1.1				
M604104	205 294	0.065	137	115	760	1.5				
M604105	205 294	0.030	126	15	610	0.6				
M604106	205 294	0.015	105	16	540	0.4				
M604107	205 294	0.015	78	4	225	0.2				
M604108	205 294	0.030	67	2	265	0.8				
M604109	205 294	0.050	71	15	205	0.6				
M604110	205 294	0.040	72	6	134	1.4				
M604111	205 294	0.025	81	2	155	0.8				
M604112	205 294	0.045	105	12	103	1.1				
M604113	205 294	0.040	66	6	135	0.8				
M604114	205 294	0.045	65	6	151	0.7				
M604115	205 294	0.065	67	2	146	0.8				
M604116	205 294	0.070	45	2	430	0.4				
M604117	205 294	0.030	50	1	149	0.4				
M604118	205 294	0.225	430	< 1	305	5.8				
M604119	205 294	0.070	114	55	235	3.9				
M604120	205 294	0.050	137	46	119	2.0				
M604121	205 294	0.415	285	290	570	10.4				
M604122	205 294	2.76	1900	10000	>10000	82.0				
M604123	205 294	0.270	310	340	1700	6.9				
M604124	205 294	0.170	78	90	460	2.8				
M604125	205 294	0.620	900	395	1350	11.4				
M604126	205 294	0.200	59	76	320	2.0				
M604127	205 294	0.160	55	200	225	2.8				

16277-01  
54.97 to 100.30

96.44 - 97.53 (104)

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



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HS97-02  
 Comments: CC: J.T. SHEARER

Page Number :1  
 Total Pages :2  
 Certificate Date: 26-SEP-97  
 Invoice No. :19742827  
 P.O. Number :  
 Account :PIX

## CERTIFICATE OF ANALYSIS A9742827

SAMPLE	PREP CODE	Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
M604137	205 294	0.845	142	450	290	18.5	↑	3.05			
M604138	205 294	0.980	405	900	1650	28.4					
M604139	205 294	1.450	375	2600	5300	33.5					
M604140	205 294	0.695	245	1500	2850	13.0					
M604141	205 294	0.740	830	8200	>10000	36.0					
M604142	205 294	0.725	220	1150	1600	16.4					
M604143	205 294	0.495	67	370	173	14.0					
M604144	205 294	0.570	155	1050	1050	8.2					
M604145	205 294	1.130	280	1100	2950	27.0					
M604146	205 294	0.900	330	1350	1950	18.8					
M604147	205 294	0.715	199	1100	3000	15.5	HS 97-02 3.05 - 49.57				
M604148	205 294	1.300	235	1250	2400	23.5					
M604149	205 294	0.150	52	240	112	3.4					
M604150	205 294	1.085	95	305	335	10.4					
M604151	205 294	0.310	280	1150	2100	7.3					
M604152	205 294	0.785	485	2600	1900	29.5					
M604153	205 294	0.610	440	1950	2000	18.0					
M604154	205 294	0.520	193	1000	2850	15.6					
M604155	205 294	0.910	340	1550	2150	17.8					
M604156	205 294	0.980	350	1600	3500	14.0					
M604157	205 294	1.215	178	800	740	12.4	↓	27.88			
M604158	205 294	1.620	148	580	1100	13.2					
M604159	205 294	0.365	70	200	158	8.0					
M604160	205 294	0.350	69	185	510	4.5					
M604161	205 294	0.260	50	200	415	3.4					
M604162	205 294	0.445	20	340	64	9.2					
M604163	205 294	0.630	74	330	860	8.6					
M604164	205 294	0.535	62	335	520	5.4					
M604165	205 294	0.675	70	900	930	12.0					
M604166	205 294	0.335	89	520	1450	6.2					
M604167	205 294	0.640	101	820	1950	16.8					
M604168	205 294	0.715	66	400	1000	8.3					
M604169	205 294	0.530	80	480	1100	5.5					
M604170	205 294	0.645	142	1150	2850	16.0					
M604171	205 294	0.645	126	300	800	9.2					
M604172	205 294	0.450	80	195	490	4.7					
M604173	205 294	0.450	61	215	650	4.2					
M604174	205 294	0.280	53	155	610	3.4					
M604175	205 294	1.515	690	950	4300	28.8					
M604176	205 294	0.455	88	480	1350	6.5					

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



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212 Brooksbank Ave., North Vancouver  
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To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HS97-02  
Comments: CC: J.T. SHEARER

Page Number :2  
Total Pages :2  
Certificate Date: 26-SEP-97  
Invoice No. :19742827  
P.O. Number :  
Account :PIX

## CERTIFICATE OF ANALYSIS

A9742827

SAMPLE	PREP CODE	Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
M604177	205 294	0.250	77	130	290	2.5	} HS 97-02 49.57 - 112.00				
M604178	205 294	0.865	260	700	2600	9.6					
M604179	205 294	1.080	405	1850	5500	14.0					
M604180	205 294	0.190	31	400	123	3.2					
M604181	205 294	0.305	31	105	157	2.3					
M604182	205 294	0.475	66	410	1400	8.0					
M604183	205 294	0.400	60	146	530	3.2					
M604184	205 294	0.015	34	54	167	0.4					
M604185	205 294	0.010	33	105	118	0.3					
M604186	205 294	0.010	59	18	205	< 0.2					
M604187	205 294	0.010	105	42	125	< 0.2					
M604188	205 294	0.010	66	28	320	< 0.2					
M604189	205 294	0.010	30	22	310	< 0.2					
M604190	205 294	0.035	48	35	175	0.2					
M604191	205 294	0.085	20	62	285	1.7					
M604192	205 294	0.190	34	84	250	2.5					
M604193	205 294	0.320	52	220	880	5.2					
M604194	205 294	0.280	58	150	540	4.4					
M604195	205 294	0.505	163	205	1050	6.9					
M604196	205 294	0.110	24	46	99	0.9					
M604197	205 294	0.125	72	78	370	2.5					
M604198	205 294	0.215	74	225	1050	3.0					
M604199	205 294	0.110	80	750	580	3.8					
M604200	205 294	0.040	55	60	75	0.5					
M604201	205 294	0.050	80	45	83	1.0					
M604202	205 294	0.090	47	74	147	1.5					
M604203	205 294	0.025	56	90	620	0.9					
M604204	205 294	0.090	130	800	5900	4.8					
M604205	205 294	0.230	176	1400	7000	10.4					
M604206	205 294	0.035	77	48	178	0.8					
M604207	205 294	0.145	116	180	690	2.8					
M604208	205 294	0.060	66	64	255	0.7					
M604209	205 294	0.050	118	33	265	1.0					
M604210	205 294	0.030	197	24	590	0.7					
M604211	205 294	0.005	86	20	66	0.2					
M604212	205 294	0.080	163	116	380	0.7					
M604213	205 294	0.035	205	72	235	0.8					
M604214	205 294	0.040	196	120	660	0.6					
M604215	205 294	0.025	140	35	74	0.5					
M604216	205 294	0.050	134	100	160	0.6					

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





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Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOT SPRING  
 Comments: CC: J. T. SHEARER

Page Number : 1  
 Total Pages : 4  
 Certificate Date: 02-OCT-97  
 Invoice No. : 19744067  
 P.O. Number :  
 Account : PIX

## CERTIFICATE OF ANALYSIS

A9744067

SAMPLE	PREP CODE		Au g/t FA+AA	Ag ppm Aqua R	Cu ppm	Pb ppm	Zn ppm					
M604128	205	294	0.285	3.6	118	115	600	MS 97-01 152.50 - 106.96				
M604129	205	294	0.430	7.7	136	58	930					
M604130	205	294	0.130	2.1	48	25	140					
M604131	205	294	0.110	2.3	117	30	220					
M604217	205	294	0.620	8.2	275	600	2500					
M604218	205	294	0.160	2.6	107	185	560	See				
M604219	205	294	0.035	0.8	24	42	240					
M604220	205	294	0.115	1.5	116	90	360					
M604221	205	294	0.260	2.6	108	265	1060					
M604222	205	294	0.100	1.0	149	92	500					
M604223	205	294	0.055	1.1	130	156	1000	MS 97-02 112 - 148.13				
M604224	205	294	0.030	0.5	127	76	500					
M604225	205	294	< 0.005	0.3	179	34	210					
M604226	205	294	< 0.005	0.2	41	10	130					
M604227	205	294	< 0.005	0.4	162	68	200					
M604228	205	294	< 0.005	< 0.2	17	12	140					
M604229	205	294	< 0.005	0.2	200	12	220					
M604230	205	294	< 0.005	0.4	158	28	420					
M604231	205	294	0.020	0.5	186	68	1380					
M604232	205	294	< 0.005	0.4	134	15	152					
M604233	205	294	0.040	0.7	112	40	170					
M604234	205	294	0.040	0.7	93	48	220					
M604235	205	294	0.200	4.4	305	600	2600					
M604236	205	294	0.045	0.8	240	70	460					
M604237	205	294	0.015	1.0	126	110	390					
M604238	205	294	0.025	1.4	375	96	480					
M604239	205	294	1.105	35.8	380	2300	2800					
M604240	205	294	1.260	31.2	370	1000	2700					
M604241	205	294	1.455	56.0	960	3250	8300					
M604242	205	294	1.415	68.0	880	1550	4000					
M604243	205	294	1.310	41.8	620	2550	3900	MS 97-03 3.66 - 27.50				
M604244	205	294	1.840	32.8	400	1150	2300					
M604245	205	294	0.550	19.8	185	1250	2000					
M604246	205	294	0.690	19.0	290	1850	3100					
M604247	205	294	1.160	22.8	300	2000	2800					
M604248	205	294	1.225	23.5	225	1150	2300					
M604249	205	294	1.240	27.2	340	1950	4500					
M604250	205	294	0.955	20.4	360	1200	2100					
M604251	205	294	0.770	12.8	163	320	1680					
M604252	205	294	0.640	12.0	104	800	260					

CERTIFICATION:

*[Handwritten signature]*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOT SPRING  
 Comments: CC: J. T. SHEARER

Page Number :2  
 Total Pages :4  
 Certificate Date: 02-OCT-97  
 Invoice No. :19744067  
 P.O. Number :  
 Account :PIX

## CERTIFICATE OF ANALYSIS A9744067

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Cu ppm	Pb ppm	Zn ppm				
M604253	205 294	0.480	7.0	149	475	2000				
M604254	205 294	0.030	0.7	36	176	1980				
M604255	205 294	0.120	4.0	76	620	530				
M604256	205 294	< 0.005	0.2	71	600	340				
M604257	205 294	1.270	9.0	145	500	1960				
M604258	205 294	0.985	11.2	275	750	2200				
M604259	205 294	0.975	15.0	215	1450	4800				
M604260	205 294	0.970	21.8	265	500	1860				
M604261	205 294	0.770	8.6	96	650	1340				
M604262	205 294	1.840	17.7	365	3150	>10000				
M604263	205 294	2.78	20.8	315	2400	5900				
M604264	205 294	1.015	8.0	78	700	570				
M604265	205 294	0.810	8.0	79	600	260				
M604266	205 294	0.550	16.0	96	560	450				
M604267	205 294	3.26	47.2	910	4100	900				
M604268	205 294	0.580	5.5	111	720	1200				
M604269	205 294	0.260	3.0	74	348	860				
M604270	205 294	1.450	17.4	415	1900	9200				
M604271	205 294	2.06	24.5	760	2700	>10000				
M604272	205 294	0.085	0.9	64	155	470				
M604273	205 294	0.350	1.8	84	240	530				
M604274	205 294	0.145	0.6	152	155	2000				
M604275	205 294	0.150	0.3	103	28	540				
M604276	205 294	0.275	0.3	132	11	210				
M604277	205 294	0.030	< 0.2	50	15	188				
M604278	205 294	0.010	< 0.2	57	5	90				
M604279	205 294	0.020	0.2	119	23	200				
M604280	205 294	0.010	< 0.2	117	24	180				
M604281	205 294	< 0.005	0.2	186	32	180				
M604282	205 294	0.100	1.2	91	38	190				
M604283	205 294	0.640	11.6	100	220	300				
M604284	205 294	< 0.005	0.2	122	26	350				
M604285	205 294	0.105	1.3	63	84	490				
M604286	205 294	0.075	0.9	32	150	62				
M604287	205 294	0.595	10.2	335	2200	4700				
M604288	205 294	0.850	10.0	325	1150	1540				
M604289	205 294	0.390	6.2	126	430	940				
M604290	205 294	0.470	7.8	134	950	2000				
M604291	205 294	0.460	22.0	300	4900	>10000				
M604292	205 294	0.645	10.2	83	1850	2100				

85-97-03  
 2750 - 8000  
 3900 - 5400

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



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOT SPRING  
 Comments: CC: J. T. SHEARER

Page Number :3  
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 Invoice No. :19744067  
 P.O. Number :  
 Account :PIX

## CERTIFICATE OF ANALYSIS

A9744067

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Cu ppm	Pb ppm	Zn ppm					
M604293	205 294	0.470	10.4	245	680	2100					
M604294	205 294	0.600	9.6	190	378	1160					
M604295	205 294	0.920	22.5	174	900	1960					
M604296	205 294	1.060	19.8	151	800	2300					
M604297	205 294	0.135	3.0	52	110	260					
M604298	205 294	0.360	8.5	82	340	1300					
M604299	205 294	0.060	1.7	370	132	330					
M604300	205 294	0.725	12.8	365	1050	3700					
M604301	205 294	0.875	16.0	176	1050	1220					
M604302	205 294	0.475	10.5	151	540	820					
M604303	205 294	0.540	9.2	132	300	780					
M604304	205 294	0.710	11.6	98	415	1400					
M604305	205 294	0.610	13.4	44	250	570					
M604306	205 294	0.160	3.1	100	62	160					
M604307	205 294	0.265	6.6	205	155	580					
M604308	205 294	0.365	8.6	179	235	450					
M604309	205 294	0.820	10.4	158	155	940					
M604310	205 294	0.110	3.7	52	92	370					
M604311	205 294	0.720	14.2	380	455	1400					
M604312	205 294	0.480	10.5	151	368	2000					
M604313	205 294	0.640	15.2	149	630	1440					
M604314	205 294	0.670	12.0	169	450	1420					
M604315	205 294	0.510	8.2	260	1050	3600					
M604316	205 294	0.600	8.0	188	275	1700					
M604317	205 294	1.470	25.2	370	1300	2900					
M604318	205 294	0.170	2.8	157	90	380					
M604319	205 294	0.020	0.6	58	46	140					
M604320	205 294	0.040	0.9	71	36	300					
M604321	205 294	0.030	0.5	114	36	150					
M604322	205 294	0.160	1.0	245	64	1000					
M604323	205 294	0.015	0.4	102	30	260					
M604324	205 294	0.010	0.2	76	10	200					
M604325	205 294	0.050	0.2	54	3	120					
M604326	205 294	0.010	< 0.2	99	16	100					
M604327	205 294	0.020	0.5	74	32	250					
M604328	205 294	0.055	0.4	71	8	190					
M604329	205 294	0.030	0.5	93	2	130					
M604330	205 294	0.025	0.6	58	3	150					
M604331	205 294	< 0.005	0.2	87	5	80					
M604332	205 294	0.265	13.0	440	222	1660					

HS 97-03  
 80.00 - 127.00

3.05 - 5.00

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



# Chemex Labs Ltd.

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 212 Brocksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOT SPRING  
 Comments: CC: J. T. SHEARER

Page Number : 4  
 Total Pages : 4  
 Certificate Date: 02-OCT-97  
 Invoice No. : 19744067  
 P.O. Number :  
 Account : PIX

## CERTIFICATE OF ANALYSIS A9744067

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Cu ppm	Pb ppm	Zn ppm						
M604333	205 294	0.115	5.0	315	85	150						
M604334	205 294	0.085	3.2	124	72	160						
M604335	205 294	0.120	4.4	56	100	38						
M604336	205 294	0.165	2.7	57	145	30						
M604337	205 294	0.060	1.0	19	126	11						
M604338	205 294	0.355	21.6	380	355	920						
M604339	205 294	0.210	8.0	30	440	38						
M604340	205 294	0.620	29.4	200	1150	780						
M604341	205 294	0.305	13.2	265	480	230						
M604342	205 294	0.445	22.2	340	1350	630						
M604343	205 294	0.050	3.7	36	400	30						
M604344	205 294	0.320	14.2	158	450	142						
M604345	205 294	0.060	2.2	78	155	270						
M604346	205 294	0.105	5.6	157	290	148						
M604347	205 294	0.495	22.6	840	700	1140						
M604348	205 294	0.265	10.0	220	385	550						
M604349	205 294	0.010	0.3	125	66	290						
M604350	205 294	0.035	1.5	46	55	540						
M604351	205 294	0.280	5.7	58	155	220						
M604352	205 294	0.085	4.5	62	130	240						
M604353	205 294	0.060	5.6	78	70	340						
M604354	205 294	0.015	0.7	102	10	158						
M604355	205 294	< 0.005	0.3	94	16	122						
M604356	205 294	< 0.005	< 0.2	65	22	152						
M604357	205 294	< 0.005	< 0.2	87	30	154						
M604358	205 294	< 0.005	0.2	31	36	58						
M604359	205 294	< 0.005	0.2	33	75	36						
M604360	205 294	< 0.005	1.0	35	80	52						
M604361	205 294	< 0.005	0.3	63	60	54						
M604362	205 294	< 0.005	0.4	145	30	58						
M604363	205 294	< 0.005	0.5	225	13	150						
M604364	205 294	0.010	1.2	184	62	142						
M604365	205 294	0.545	19.5	161	380	1390						
M604366	205 294	0.620	22.2	153	1500	2000						
M604367	205 294	0.110	5.8	126	225	640						
M604368	205 294	0.460	15.0	131	285	1220						

HS 97.07  
 S.W. - 5800

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





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Page Number :2  
 Total Pages :2  
 Certificate Date: 08-OCT-97  
 Invoice No. :19745089  
 P.O. Number :  
 Account :PIX

Project :  
 Comments: ATTN: J.T. SHEARER

## CERTIFICATE OF ANALYSIS A9745089

SAMPLE	PREP CODE		Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R				
M604409	205	226	0.345	85	96	335	2.4				
M604410	205	226	0.470	250	800	1250	9.5				
M604411	205	226	1.135	700	2150	>10000	21.5				
M604412	205	226	0.205	310	340	670	2.9				
M604413	205	226	0.145	265	110	235	1.2				
M604414	205	226	0.175	140	66	325	1.3				
M604415	205	226	1.135	1850	355	3550	19.5				
M604416	205	226	0.765	375	360	810	6.5				
M604417	205	226	0.270	355	350	1350	4.7				
M604418	205	226	0.200	220	72	800	1.7				

CERTIFICATION: 



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project:  
 Comments: ATTN: J.T. SHEARER

Page Number : 1  
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 Certificate Date: 07-OCT-97  
 Invoice No. : I9744675  
 P.O. Number :  
 Account : PIX

## CERTIFICATE OF ANALYSIS A9744675

SAMPLE	PREP CODE	Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
511560H	205 294	< 0.005	70	6	90	< 0.2					
511561H	205 294	< 0.005	46	6	111	< 0.2					
511562H	205 294	0.010	9	42	111	0.2					
511563H	205 294	0.015	62	48	127	0.2					
511564H	205 294	0.205	168	272	1350	2.5					
511565H	205 294	1.310	800	950	1950	13.4					
511566H	205 294	0.120	320	168	395	1.7					
511567H	205 294	0.435	500	405	2450	6.2					
511568H	205 294	0.040	400	170	220	0.6					
511569H	205 294	0.030	610	75	168	0.8					
511570H	205 294	0.085	220	80	335	1.2					
511571H	205 294	0.155	230	128	790	2.0					
511572H	205 294	0.275	290	400	910	3.5					
511573H	205 294	0.270	164	650	1650	5.5					
511574H	205 294	0.195	192	225	1500	2.7					
511582H	205 294	0.055	250	52	1550	1.1					
511583H	205 294	0.335	650	64	1250	4.5					
511584H	205 294	0.035	150	73	220	1.3					
511585H	205 294	0.135	630	132	1500	3.4					
511586H	205 294	0.035	260	96	365	0.7					
511590H	205 294	0.040	260	18	79	0.3					
511591H	205 294	0.010	200	55	147	0.6					
511593H	205 294	0.010	188	6	161	0.8					
511594H	205 294	0.020	280	13	156	1.5					
M604419	205 294	0.300	230	410	1450	6.0					
M604420	205 294	0.520	192	550	1900	7.4					
M604421	205 294	0.945	116	395	1100	8.0					
M604422	205 294	0.345	150	52	800	1.7					
M604423	205 294	0.020	154	16	142	0.6					
M604424	205 294	< 0.005	128	6	112	0.2					
M604425	205 294	< 0.005	79	8	92	< 0.2					
M604426	205 294	< 0.005	166	23	88	0.2					
M604427	205 294	< 0.005	132	15	158	0.2					
M604428	205 294	< 0.005	170	8	96	0.4					
M604429	205 294	0.160	148	92	590	1.9					
M604430	205 294	0.600	240	355	1300	7.7					
M604431	205 294	0.620	194	435	1600	9.5					
M604432	205 294	0.290	300	310	370	3.5					
M604433	205 294	2.50	340	2400	>10000	26.5					
M604434	205 294	0.550	310	650	1950	9.6					

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



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project :

Comments: ATTN: J.T. SHEARER

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 Invoice No. :19744675  
 P.O. Number :  
 Account :PIX

## CERTIFICATE OF ANALYSIS

A9744675

SAMPLE	PREP CODE	Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
M604435	205 294	0.210	250	255	3500	4.2					
M604436	205 294	0.415	192	245	3700	5.6					
M604437	205 294	0.050	64	20	345	1.3					
M604438	205 294	0.040	70	55	280	0.9					
M604439	205 294	0.020	73	18	187	0.5					
M604440	205 294	< 0.005	105	18	125	0.2					
M604441	205 294	< 0.005	88	8	205	< 0.2					
M604442	205 294	0.065	104	72	103	3.8					
M604443	205 294	< 0.005	38	2	60	< 0.2					
M604444	205 294	< 0.005	67	7	245	< 0.2					
M604445	205 294	0.015	70	100	65	1.7					
M604446	205 294	0.080	56	155	49	3.7					
M604447	205 294	0.120	25	122	53	4.0					
M604448	205 294	0.120	53	140	280	3.4					
M604449	205 294	0.040	62	185	48	1.4					
M604450	205 294	0.045	68	185	109	0.7					
M604451	205 294	0.180	52	235	71	4.7					
M604452	205 294	0.200	128	620	1600	10.5					
M604453	205 294	0.150	61	380	126	4.3					
M604454	205 294	0.210	220	315	740	5.6					
M604455	205 294	0.080	89	138	138	2.3					
M604456	205 294	0.130	98	195	410	2.6					
M604457	205 294	0.120	124	490	1250	5.6					
M604458	205 294	0.065	74	255	640	3.4					
M604459	205 294	0.160	85	220	710	3.6					
M604460	205 294	0.125	62	220	650	3.6					
M604461	205 294	0.040	88	102	225	1.2					
M604462	205 294	0.075	61	122	560	2.2					
M604463	205 294	0.085	80	130	530	2.8					
M604464	205 294	0.120	67	215	840	4.5					
M604465	205 294	0.045	48	45	200	1.2					
M604466	205 294	0.030	40	28	66	1.1					
M604467	205 294	0.800	350	1200	3500	16.8					
M604468	205 294	0.015	81	64	270	0.3					
M604469	205 294	< 0.005	510	350	1350	1.0					
M604470	205 294	< 0.005	172	53	380	0.3					
M604471	205 294	< 0.005	82	9	57	0.3					
M604472	205 294	< 0.005	61	3	110	0.3					
M604473	205 294	0.040	81	28	117	1.2					
M604474	205 294	0.015	270	315	290	2.2					

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





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

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Project :  
 Comments: ATTN: J.T. SHEARER

## CERTIFICATE OF ANALYSIS A9744675

SAMPLE	PREP CODE	Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
M604475	205 294	0.310	116	235	1450	9.7					
M604476	205 294	0.075	48	52	168	3.0					
M604477	205 294	0.500	84	172	540	11.8					
M604478	205 294	0.195	88	45	70	4.6					
M604479	205 294	0.180	90	30	205	2.6					
M604480	205 294	0.005	110	5	145	0.4					
M604481	205 294	< 0.005	87	3	136	0.2					
M604482	205 294	< 0.005	67	< 1	82	< 0.2					
M604483	205 294	< 0.005	94	2	96	< 0.2					
M604484	205 294	< 0.005	137	< 1	116	< 0.2					
M604485	205 294	< 0.005	72	< 1	117	< 0.2					
M604486	205 294	< 0.005	68	2	105	< 0.2					
M604487	205 294	< 0.005	154	2	190	< 0.2					
M604488	205 294	0.010	200	4	191	0.2					
M604489	205 294	< 0.005	120	< 1	194	0.2					
M604490	205 294	0.010	142	16	165	0.3					
M604491	205 294	< 0.005	78	32	315	0.3					
M604492	205 294	< 0.005	47	16	167	< 0.2					
M604493	205 294	< 0.005	118	15	112	< 0.2					
M604494	205 294	< 0.005	134	29	260	< 0.2					
M604495	205 294	< 0.005	43	20	88	< 0.2					
M604496	205 294	< 0.005	71	12	76	< 0.2					
M604497	205 294	< 0.005	54	25	123	< 0.2					
M604498	205 294	< 0.005	32	11	93	< 0.2					
M604499	205 294	< 0.005	39	7	104	< 0.2					
M604500	205 294	< 0.005	28	12	120	< 0.2					

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



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

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 Certificate Date: 08-OCT-97  
 Invoice No. : 19745091  
 P.O. Number :  
 Account : PIX

Project :  
 Comments: ATTN: J.T. SHEARER

## CERTIFICATE OF ANALYSIS

### A9745091

SAMPLE	PREP CODE	Au g/t FA+AA	Cu ppm	Pb ppm	Zn ppm	Ag ppm Aqua R					
M604021	205 226	0.025	22	7	33	0.5					
M604022	205 226	0.225	54	18	43	2.7					
M604023	205 226	0.615	28	245	47	11.8					
M604024	205 226	0.050	61	18	650	34.5					
M604025	205 226	0.325	8	35	20	7.0					
M604026	205 226	0.065	35	3	53	2.2					
M604027	205 226	0.815	5	25	19	42.5					
M604028	205 226	0.250	31	360	70	6.6					
M604029	205 226	0.235	32	720	161	8.0					
M604030	205 226	0.015	11	30	59	2.1					
M604031	205 226	0.010	20	5	70	< 0.2					
M604032	205 226	0.060	177	< 1	28	1.2					
M604033	205 226	0.005	50	10	56	0.2					

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



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOT SPRING  
Comments: CC: J. T. SHEARER

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Invoice No. : 19744070  
P.O. Number :  
Account : PIX

## CERTIFICATE OF ANALYSIS

### A9744070

SAMPLE	PREP CODE		Au g/t FA+AA	Ag ppm Aqua R	Cu ppm	Pb ppm	Zn ppm					
M604013	205	294	0.025	< 0.6	52	142	690	} Dave				
M604014	205	294	0.010	< 0.2	19	34	156					
M604015	205	294	0.020	< 5.7	41	14	52					
M604016	205	294	< 0.005	< 0.2	25	3	102					
M604017	205	294	< 0.005	< 0.2	22	3	36					
M604018	205	294	0.015	0.4	62	9	18	}				
M604019	205	294	0.050	4.9	27	18	32					
M604020	205	294	0.200	4.2	18	6	19					

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



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

Page Number : 1  
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 Certificate Date: 08-NOV-97  
 Invoice No. : 19748778  
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 Account : PIX

## CERTIFICATE OF ANALYSIS

### A9748778

SAMPLE	PREP CODE		Au g/t	Pb	Zn	Ag ppm						
			FA+AA	ppm	ppm	Aqua R						
M266401	205	294	0.040	58	258	1.3						
M266402	205	294	0.310	88	336	4.2						
M266403	205	294	0.225	230	520	8.2						
M266404	205	294	0.220	275	1500	8.5						
M266405	205	294	0.260	168	376	5.7						
M266406	205	294	0.375	248	845	6.8						
M266407	205	294	0.560	375	745	12.0						
M266408	205	294	0.365	260	640	9.0						
M266409	205	294	0.665	680	2000	16.6						
M266410	205	294	0.280	320	790	7.4						
M266411	205	294	0.300	700	400	14.0						
M266412	205	294	0.800	1050	2700	17.5						
M266413	205	294	0.570	850	2400	12.0						
M266414	205	294	0.200	308	480	4.9						
M266415	205	294	0.025	50	280	1.0						
M266416	205	294	0.065	23	250	0.8						
M266417	205	294	0.120	70	325	1.3						
M266418	205	294	0.035	43	230	0.8						
M266419	205	294	0.055	62	144	1.2						
M266420	205	294	0.085	20	166	1.4						
M266421	205	294	0.080	25	750	1.0						
M266422	205	294	0.050	21	124	1.0						
M266423	205	294	0.020	9	137	0.7						
M266424	205	294	0.025	8	110	0.6						
M266425	205	294	0.055	92	510	1.8						
M266426	205	294	0.025	17	560	1.1						
M266427	205	294	0.025	10	580	0.8						
M266428	205	294	0.055	22	274	1.0						
M266429	205	294	0.060	42	94	1.7						
M266430	205	294	0.060	78	730	2.3						
M266431	205	294	0.180	140	2700	7.0						
M266432	205	294	0.160	190	540	7.5						
M266433	205	294	0.085	120	450	2.1						
M266434	205	294	0.070	195	700	2.1						
M266435	205	294	0.060	105	2200	1.9						
M266436	205	294	0.020	30	750	0.8						
M266437	205	294	0.010	6	236	0.3						
M266438	205	294	0.035	105	490	1.1						
M266439	205	294	0.040	78	285	1.7						
M266440	205	294	0.090	145	184	3.1						

CERTIFICATION:

*Hart Bickler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

Page Number : 2  
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 Account : PIX

## CERTIFICATE OF ANALYSIS A9748778

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
M266441	205 294	0.040	98	540	2.1						
M266442	205 294	0.040	60	660	1.0						
M266443	205 294	0.010	88	1700	2.5						
M266444	205 294	0.010	1050	2400	2.7						
M266445	205 294	0.020	485	4000	3.4						
M266446	205 294	0.015	110	1400	1.2						
M266447	205 294	0.010	21	610	1.2						
M266448	205 294	0.010	28	550	0.6						
M266449	205 294	< 0.005	37	490	0.6						
M266450	205 294	< 0.005	22	88	0.3						
M266451	205 294	0.010	152	233	0.6						
M266452	205 294	0.015	360	345	1.3						
M266453	205 294	0.010	165	1200	0.9						
M266454	205 294	0.015	42	2300	1.1						
M266455	205 294	0.015	75	3600	1.4						
M266456	205 294	0.010	98	1700	2.0						
M266457	205 294	< 0.005	11	330	< 0.2						
M266458	205 294	< 0.005	12	310	0.2						
M266459	205 294	0.015	46	1160	0.8						
M266460	205 294	0.035	55	510	0.9						
M266461	205 294	0.030	30	240	0.7						
M266462	205 294	0.375	36	330	0.8						
M266463	205 294	0.935	60	196	2.8						
M266464	205 294	0.050	25	42	0.8						
M266465	205 294	0.125	33	32	1.0						
M266466	205 294	0.365	50	47	1.6						
M266467	205 294	1.410	62	570	6.0						
M266468	205 294	0.280	66	4400	3.9						
M266469	205 294	0.195	42	1380	2.6						
M266470	205 294	0.045	22	49	0.8						
M266471	205 294	0.060	40	112	1.6						
M266472	205 294	0.055	43	70	1.9						
M266473	205 294	0.160	62	3900	5.4						
M266474	205 294	0.110	84	1160	2.1						
M266475	205 294	0.025	17	184	0.3						
M266476	205 294	0.025	19	1000	0.5						
M266477	205 294	0.130	79	610	3.6						
M266478	205 294	0.105	25	88	3.8						
M266479	205 294	0.160	24	103	3.7						
M266480	205 294	0.050	16	200	1.3						

CERTIFICATION:

*Hart Bichler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOTSPRING  
 Comments: ATTN: SCOTT ANGUS

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## CERTIFICATE OF ANALYSIS

### A9748778

SAMPLE	PREP CODE	Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
M266481	205 294	0.080	11	90	0.9						
M266482	205 294	0.010	16	172	0.3						
M266483	205 294	0.040	18	260	0.9						
M266484	205 294	0.050	20	990	0.8						
M266485	205 294	0.110	18	220	2.8						
M266486	205 294	0.105	12	82	1.6						
M266487	205 294	0.085	14	220	0.8						
M266488	205 294	0.130	9	106	1.1						
M266489	205 294	0.100	5	21	0.5						
M266490	205 294	0.070	7	30	0.4						
M266491	205 294	0.020	20	139	0.3						
M266492	205 294	0.020	23	100	0.2						
M266493	205 294	0.045	10	41	0.3						
M266494	205 294	0.035	6	56	0.6						
M266495	205 294	0.055	21	44	0.5						
M266496	205 294	0.050	19	72	0.5						
N302836	205 294	0.020	5	190	1.6						
N302837	205 294	0.015	8	73	2.7						
N302838	205 294	0.040	8	92	5.3						
N302839	205 294	0.055	7	66	7.4						
N302840	205 294	0.030	6	52	3.0						
N302841	205 294	0.055	10	108	7.9						
N302842	205 294	0.045	9	149	6.0						
N302843	205 294	0.155	16	150	14.5						
N302844	-- --	NotRcd	NotRcd	NotRcd	NotRcd						
N302845	205 294	0.045	30	133	< 0.2						
N302850	205 294	0.010	11	94	2.0						
N302851	205 294	0.020	30	126	6.1						
N302852	205 294	0.015	12	98	2.0						
N302853	205 294	0.010	6	92	0.9						
N302854	205 294	0.010	7	36	0.9						
N302855	205 294	0.010	4	250	0.7						
N302856	205 294	< 0.005	5	118	0.6						
N302857	205 294	0.015	8	156	2.2						
N302858	205 294	0.030	11	270	3.0						
N302865	205 294	0.030	9	360	2.0						
N302866	205 294	0.070	6	76	19.7						
N302867	205 294	0.020	13	480	1.8						
N302868	205 294	0.010	5	240	0.5						
N302869	205 294	0.010	14	510	0.8						

CERTIFICATION:

*Hart Bickler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
VANCOUVER, BC  
V6C 3L2

Project: HOTSPRING  
Comments: ATTN: SCOTT ANGUS

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## CERTIFICATE OF ANALYSIS

A9748778

SAMPLE	PREP CODE		Au g/t FA+AA	Pb ppm	Zn ppm	Ag ppm Aqua R						
N302870	205	294	0.040	14	149	0.8						
N302871	205	294	0.025	10	106	0.6						
N302872	205	294	< 0.005	7	110	0.3						

CERTIFICATION: Hart Bickler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

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To: MOUNT HOPE RESOURCES CORP.

1918 - 925 W. GEORGIA ST.  
 VANCOUVER, BC  
 V6C 3L2

Project: HOT SPRINGS  
 Comments: CC:J.T. SHEARER

Page Number : 1  
 Total Pages : 1  
 Certificate Date: 14-OCT-97  
 Invoice No. : 19745466  
 P.O. Number :  
 Account : PIX

## CERTIFICATE OF ANALYSIS A9745466

SAMPLE	PREP CODE	Au g/t FA+AA	Ag ppm Aqua R	Cu ppm	Pb ppm	Zn ppm					
N65818E	205 294	0.100	7.7	62	100	260					
N302585	205 294	0.120	0.7	80	138	265					
N302586	205 294	0.050	0.3	70	33	156					
N302587	205 294	0.010	0.2	50	62	265					
N302588	205 294	0.010	0.4	62	58	148					
N302591	205 294	0.060	4.0	185	1780	3900					
N302595	205 294	0.030	0.6	50	138	215					
N302596	205 294	0.030	0.9	116	33	162					
N302597	205 294	0.030	0.7	30	9	61					
N302602	205 294	0.020	< 0.2	60	28	181					
N302606	205 294	0.060	1.3	196	108	200					
N302610	205 294	0.020	< 0.2	26	18	44					
N302645	205 294	0.530	4.1	750	322	2650					
N302648	205 294	1.060	7.0	422	1150	6400					
N302653	205 294	1.095	5.9	700	700	1900					
N302654	205 294	0.580	5.4	600	950	3400					
N302656	205 294	0.140	2.0	240	66	750					
N302659	205 294	0.750	11.0	670	1500	8300					
N302660	205 294	0.060	1.7	370	365	3000					
N302663	205 294	1.190	9.3	850	1250	>10000					
N302664	205 294	0.610	5.4	335	920	2500					
N511579H	205 294	0.075	0.7	360	92	460					
N511581H	205 294	0.095	0.8	168	36	1000					
N511588H	205 294	0.030	0.2	175	29	131					
N511589H	205 294	0.020	< 0.2	170	21	83					
N511592H	205 294	0.015	1.3	1000	4	137					
N511600H	205 294	0.005	< 0.2	135	5	188					

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



# **APPENDIX IV**

## **DIAMOND DRILL LOGS**

**January 26, 1998**

**MOUNT HOPE RESOURCES CORPORATION**  
1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

**SECTION:** 30163N

**Diamond Drill Log**

**DDH#:** HS97-01

Northing: 301+63N  
Easting: 314+10E  
Elevation: 858m  
Azimuth: 050°  
Inclination: -57°  
Grid: Aranlee  
Length (m): 114.60  
Core size: N.Q.  
Contractor: F. Boisvenu  
Drill Type: Boyles 37

Drill Hole survey		
Method: <u>Acid</u>		
Azimuth	Dip	Depth
050	-57	0
050	-60	32.31
050	-60	60.96
050	-60	93.27

Property: Hotsprings  
NTS: 92B/9,16  
Claim: Hotspring 7  
Date Started: Sept. 7, '97/2:10p.m.  
Date Completed: Sept. 10, '97/10p.m.  
Logged by: W. B. Lennan & J.T. Shearer

**Purpose:** To test higher grade material found in Trench T-10 to the northeast

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.05	9	<b>CASING</b> - Boulder rubble with pieces cream coloured siliceous tuff (lapilli) of unit 3 and 6				
3.05	15.60	314	<b>SILICEOUS LAPILLI TUFF</b> - Light bluish grey with ghost fragments up to 3 cm in diameter. White feldspar phenocrysts and fragments dominant fracturing 60° and 25° to core axis. Heavy rusting on fracture surfaces.	604051	3.05-4.40	1.40	0.830
			4.39-4.88m - Shear zone with intense rusting 25° to C.A.	604052	4.40-6.10	1.70	0.575
			5.6m - 1 cm wide rusty quartz vein 25° to C.A. Tension vugs with coarse pyrite cubes	604053	6.10-6.95	0.85	1.360
			3.05-5.36m - Pyrite dominates at 2 to 3% with sphalerite and minor galena found along the rims of quartz veins	604054	6.95-7.85	0.90	1.040
			5.36-6.12m - Mineralization weakens	604055	7.85-9.35	1.50	1.685
			6.12-6.95m Intensely silicified with bleaching along fractures 40° and 18° to C.A. Pyrite, sphalerite and minor chalcopyrite and galena are strong in this zone. 2mm vugs occur along silicified fractures	604056	9.35-10.97	1.62	1.520
			6.95-7.85m - Very intense silicification with rusted fracture. Sulfides drop off significantly	604057	10.97-12.47	1.50	1.640
			7.85-10.92m - Dark blue grey siliceous tuff cont'd but intensely silicified in veins and as pervasive flooding. Strong pyrite mineralization along contorted veinlets. Minor to moderate sphalerite mineralization throughout.	604058	12.47-13.80	1.33	1.140

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DDH#: HS97-01

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			8.74-9.24m - Intensely pyritized with moderate sphalerite mineralization along veins 10-15% C.A. This appears to cut mineralized veins at 40° to C.A.				
			10.97-11.40m- Broken core with some loss				
			12.30-12.75m- Broken core with some loss				
			10.97-13.80m- Intensely fractured and rusted and silicified section of silicified lapilli tuffs. Textures are mostly bleached out except for patches showing fragments containing feldspar phenocrysts or crystal fragments. Mineralization drops off.				
			13.80-14.50m - Silicified Lapilli Tuff continues. Massive bleached with sphalerite along fractures.	604059	13.80-14.50	0.70	1.055
14.50	15.60		<b>FAULT ZONE</b> or open fracture 0.91m of core loss.				
15.60	25.29	312	<b>SILICEOUS LAPILLI TUFF</b> - cream grey to dark blue grey massive with pervasive quartz flooding in addition to veins & veinlets.	604060	15.60-16.23	0.63	2.200
			16.06-16.22m - Quartz veining with 2% pyrite and sphalerite along vein margins. Upper vein contacts 50° to C.A. Lower contact roughly parallels core axis.	604061	16.23-17.07	0.84	0.840
			17.07m - Rusty shear or fracture 30° to C.A. - quartz vein material also occurs along fracture.				
			17.07-17.65m - Intensely fractured and quartz veined tuff. Dark grey green fragments may contain sphalerite. Vuggy areas along fractures.	604062	17.07-18.40	1.33	1.880
			17.65-18.30m - Fracturing continues with rusty surfaces - 2 dominant sets (conjugate) 45° to C.A.				
			18.30-25.29m - Massive light grey siliceous Lapilli Tuff continues. Fracturing at 65 to 85° to C.A. and vein filled fractures primarily at 25° to C.A.	604063	18.40-19.90	1.50	0.730
			20.50m - 3 cm wide quartz vein 25° to C.A. Sphalerite specks along vein margins. Pyrite generally >1.5% but occasional fracture core remains pyrite.	604064	19.90-20.90	1.00	1.350
			20.90-21.29m - Strong pyrite mineralization along irregular 3-10mm vein. <u>Epidote alteration</u> . Minor sphalerite possibly secondary biotite. healed breccia texture mineralized veining primarily on 20° to C.A.	609065	20.90-21.29	0.39	0.630
			21.46m - 1 cm gouge with quartz vein • 22° to C.A.	604066	21.29-22.79	1.50	1.520
			21.46-22.25m - Pyrite & Sphalerite • galena in veinlets.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			22.25-23.16m - Veining decreases and Lapilli texture is more apparent with lapilli and crystal fragments to 1cm diameter.				
			23.16-25.29m - Fracturing, veining and mineralization increases. At 23.97m a 1 cm massive pyrite vein occurs adjacent to an intensely fractured vein system at 30° to C.A. This well mineralized zone extends to 24.64m. Specks of galena are observed along with up to 5% pyrite and <0.5% sphalerite. <u>Epidote alteration is strong from 24.46 to 24.64m.</u> Veining and mineralization decreases from 24.64-25.29m.	604067	22.79-23.97	1.18	0.940
				604068	23.97-24.64	0.67	2.820
				604069	24.64-25.29	0.65	0.890
25.29	30.49	701	<b>DACITIC? TUFF</b> - Pale green, very siliceous. upper contact sharp at 40 to 45° to C.A. Core is very blocky with core loss. Intense limonite alteration along fractures gives rusty appearance. Some fracture surfaces coated with black manganese staining. Ghosts of feldspar phenocrysts and chloritized mafics?	604070	25.29-27.29	2.00	0.345
				604071	27.29-29.29	2.00	0.015
				604072	29.29-30.49	1.20	0.020
30.49	40.38	314	28.00-28.35m - Pinkish tinge due to Fe staining. Also from 28.90-29.29 - Minor disseminated pyrite <0.5%. Some pyrite occupies sites of altered mafics?				
			<b>SILICEOUS LAPILLI TUFF</b> - From 30.49 to 40.38m the unit is intensely silicified and veined. Veining is often contorted giving a brecciated appearance to the tuff although angular lapilli and feldspar crystal fragments are distinct throughout. Fragments 3-5 cm across are not uncommon and are often cut by glue-grey quartz veins. Epidote alteration occurs from 30.49m to 31m but is weakly distributed throughout unit over irregular intervals	604073	30.49-31.99	1.50	1.620
				604074	31.99-33.49	1.50	4.800
				604075	33.49-34.99	1.50	2.980
				604076	34.99-36.51	1.52	1.260
			The most severely rusted and pyritized vuggy fractures are primarily 15 to 20° to C.A. particularly from 31.50-31.90m and 32.31m-34.56m. Pyrite is finely disseminated throughout as well as along fracture and quartz veins.	604077	36.51-38.01	1.50	0.825
				604078	38.01-39.51	1.50	0.690
			From 33.30-33.80m pyrite mineralization in veining approx. 40° to C.A. imparting a banded fabric to the unit. Sphalerite occurs along vein margins. Minor malachite occurs along a 55° to C.A. Fracture surface at 33.60m. Coarse pyrite occurs along a 2mm wide silicified fracture 50° to C.A. at 35.75m.	604079	39.51-40.38	0.87	0.720

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			From 35.75-38.5m - fracturing and veining changes angle to core axis slightly with dominant angles ranging from 30° to 60° to C.A. Well mineralized with up to 5% pyrite and speckles of fine grained sphalerite along vein margins.				
			From 39.20-39.75m along rusted & pyritized fractures runs in undulating fashion roughly parallel to the core axis				
			From 39.75-40.38m low angle to core axis fractures diminish. At 39.95m a silicified 2mm wide fracture at 43° to C.A. is coated in coarse pyrite grains. At 40.38m siliceous lapilli tuff contacts andesite at 60° to C.A. Contact is sharp.				
40.38	50.80	522	<b>ANDESITE DYKE</b> - Dark green, moderate to strongly magnetic. Fine grained porphyritic texture which is subdued due to the fine grained feldspar phenocrysts. Pervasive chlorite alteration and patchy epidote alteration occurring as 1.2 cm diameter patches and in veins as at 41.15m at 80° to the C.A. and 46.86m at 40° to C.A. Pyrite is disseminated throughout unit but coarser grained pyrite coats 1-2mm wide fractures as at 40.7m at 55° to C.A., 40.85m at 30° to C.A., 45.06m at both 80° to C.A. and 18° to C.A. Cave at 43.28m. Note core left in box hole continued with little loss in core	604080	40.38-42.38	2.00	0.030
				604081	42.38-44.38	2.00	0.045
				604082	44.38-46.38	2.00	0.025
				604083	46.38-48.38	2.00	0.040
				604084	48.38-49.22	0.84	0.120
			45.42-45.70m - blocky core				
			47.65-47.90m - very rusted (limonitic) fracture roughly parallel to core axis				
		<i>FAULT ZONE</i>	<b>49.22-49.80m - FAULT ZONE</b> - with black core and clay rich gouge at 55-60° to C.A. Lower fault contact 35-40° to C.A.>	604085	49.22-49.80	0.54	0.040
			49.80-50.80m - dyke material is very broken up & blocky with strong limonite staining.	604086	49.80-50.80	1.00	0.390
50.80	57.06	312	<b>SILICEOUS LAPILLI (Fragmental) TUFF</b> - Cream to light and dark grey unit. Intensely silicified and fractured which imparts a brecciated texture to the unit, however, lapilli and crystal fragments are clearly visible to 4 cm in diameter. Pyrite is generally 1 to 2% and occurs primarily along fractures, veinlets and as rims around lapilli fragments. At least 2 generations of quartz veining is evident, coarse pyrite occurs in veins to 2mm thick.	604087	50.80-52.30	1.50	0.320
				604088	52.30-53.80	1.50	0.355

# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			From 55.34-57.06m unit changes to a purplish brown colour due to moderate <u>secondary biotite</u> . This alteration imparts a weak fabric to the unit running approx. 50° to C.A. Pyrite content increases to approx. 5%. At 51.28m limonite stained weakly gougy fractures at 25° to 30° to C.A. From 52.0-53.5m rusted fractures at 25 to 30° to C.A. and 50 to 70° to C.A. show brittle fracturing with vuggy texture. 53.30m - Fault Slip coated with <u>graphite</u> at 85° to C.A.	604089	53.80-54.94	1.14	0.300
			53.50m - Fault Slip with 0.5 cm limonitic gouge at 70° to C.A. Pyrite occurs along this surface. 55.98m - <u>Fault Gouge</u> (2 cm) limonitic clay core very rusty and broken to 65.90m. More fracturing 10 - 15° to C.A.	604090	54.94-55.98	1.04	0.580
57.06	59.74	412	<b>FAULT CONTACT WITH DACITIC-ANDESITIC NODULAR TUFF</b> At 57.06m - Fault Gouge (3 to 4 cm) 43° to C.A. At 57.43m - Fault Gouge (5 cm) at approx. 25° to C.A. Nodular Tuff - is purplish brown in colour with strong biotite alteration. From 57.06-57.75m - light coloured round nodules are generally less than 6mm in diameter. At 57.75m nodules are fine grained and unit appears to be more of a crystal (?) tuff. Pyrite is disseminated throughout unit as well as along fractures ranging from fine to coarse grained coatings. Fabric of unit is approx. 50° to C.A.	604091	55.94-57.06	1.08	0.060
			58.59m - Fault Gouge - (5 cm) limonitic clay at 70° to C.A. 59.20-59.40m - Strong silicification with quartz veining ranging from 25° to 40° to C.A. Weak epidote alteration. At approx. 59.55m - 3mm thick massive pyrite vein at 10° to C.A. At 59.74m contact with andesitic dyke. Broken core obscures nature and orientation of contact. Possibly gradational	604092	57.06-58.56	1.50	0.035
			59.20-59.40m - Strong silicification with quartz veining ranging from 25° to 40° to C.A. Weak epidote alteration. At approx. 59.55m - 3mm thick massive pyrite vein at 10° to C.A. At 59.74m contact with andesitic dyke. Broken core obscures nature and orientation of contact. Possibly gradational	604093	58.56-59.74m	1.18	0.050
59.74	63.71?	522	<b>ANDESITE DYKE or FLOW?</b> Massive dark green very fine grained volcanic. Weakly to moderately magnetic. Core very broken up. Strong limonite rusting on fractures. Pyrite is found throughout section but platey thin coating dominate fractures not exposed to oxidation. Pyrite content 2-6%. Strong chlorite alteration throughout.	604094	59.74-61.74	2.00	0.035
				604095	61.74-63.71	1.97	0.030

# MOUNT HOPE RESOURCES CORPORATION

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Two dominant fracture sets at 65 to 75° to C.A. and 15 to 30° to C.A. Both carry pyrite mineralization. At approx. 60.96m - <u>Fault Zone?</u> at 42° to C.A. Core very broken up 62.65-62.85m - <u>Fault Zone</u> - limonitic gouge on fracture surfaces at • 20° to C.A. Core completely broken up to 63.71m (approx.) where dyke contacts Nodular Tuff at 57° to C.A.				
63.71?	64.39	412	<b>DACITIC-ANDESITIC NODULAR TUFF</b> - Dark purplish grey. Possibly a sliver included in fault zone in Andesite Dyke. Strong limonite coatings on all fractures. From 63.95m to 64.20m fracture 15° to C.A. and 60° to C.A. Pyrite occurs as dissemination and as coating on micro fractures generally <3% At 14.39m - Nodular Tuff contacts Andesite Dyke along a fault cutting C.A. at 65° to 70°. Tension vugs occur in rock.	604096	63.71-64.39	0.68	0.060
64.39	66.45	521	<b>ANDESITE DYKE</b> - In fault zone - core very broken up - Lower contact depth uncertain as one 0.61 interval recovered no core (65.84-66.45m) Core material in hole. Core at 66.45m changes to Nodular Tuff. Andesite Dyke is strongly fractured and limonite coated. Weakly magnetic. Pyrite along fractures and disseminated.	604097	64.39-66.45	2.06	0.020
66.45	68.23	412	<b>DACITIC-ANDESITIC NODULAR TUFF</b> - Dark purplish grey fine grained nodular lapilli tuff. Small nodules <5mm diameter are rarely seen. Strongly silicified and chlorite altered in area where greenish andesitic tuff occur. Hole experiencing cave sections. Intensely fractured with 1-4% pyrite along fracture planes. Knots of biotite alteration from 64.75 to 68.23m. Core broken mainly due to fracturing 10-15° to C.A.	604098	66.45-68.23	1.78	0.035
68.23	69.04	522	<b>ANDESITE DYKE</b> - Dark grey green broken core. Strong chlorite alteration along fracture planes. Disseminated pyrite and mainly fracture controlled pyrite throughout dyke. At 68.70m a 0.5 cm thick quartz vein with strong pyrite mineralization cuts core axis at 40°. At 69.04m contacts unit 3 siliceous lapilli tuff adjacent to a 2.5 cm thick strongly pyritic quartz vein at 63° to C.A. Contact is sharp.	604099	68.23-69.04	0.81	0.010

# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

SECTION: 30163N

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DDH#: HS97-01

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
69.04	71.33	312	<p><b>SILICEOUS LAPILLI TUFF</b> - Massive light grey unit with angular lapilli fragments to 2 cm diameter. Abundant ghosts of crystal fragments. Well mineralized with fine grained disseminated pyrite and fracture controlled pyrite.</p> <p>From 69.04-69.06m at the upper contact with the andesite dyke, a 2.5 cm quartz vein with massive pyrite cuts C.A. at 63°. From 69.06-69.54m a conjugate set of low angle to C.A. fractures forms a network through the core. Onset is at 15° to C.A. and the other approx. 30° to C.A. Epidote? alteration occurs in these fractures.</p> <p>At 71.33m unit contacts dark green fine grained Andesite Dyke at 80° to C.A. Contact is slickensided with strong chlorite alteration.</p>	604100	69.04-70.04	1.00	0.080
				604101	70.04-71.33	1.29	0.160
71.33	72.85	522	<p><b>ANDESITE DYKE</b> - Dark green, massive fined grained, weakly magnetic. Strong chlorite alteration particularly along fractures. Pyrite mineralization is moderate at 1-3% with some disseminated and most along fracture as a thin coating. Epidote alteration is generally weak to non existent, however, several epidote veinlets occur from 71.93-72.05m. Dominant fracturing is at 20-30° to C.A.</p> <p>Lower contact at 72.85m is along a fault with 0.5 cm of gouge at 18° to C.A.</p>	604102	71.33-72.85	1.52	0.015
72.85	74.70	312	<p><b>SILICEOUS LAPILLI TUFF</b> - Possibly altered version of Nodular Tuff with biotite. Dark grey intensely silicified tuff but not bleached as in material at top of hole. 1 to 3m quartz veins (2 periods) cross core at various angles. Chlorite alteration is prevalent along a fracture roughly parallel to core axis from 74.60-74.70m.</p> <p>Pyrite mineralization is abundant ranging from 10% and occurs as disseminations throughout unit but is primarily found along veinlets and hairline fractures and microveinlets particularly from 74.10-74.70m.</p> <p>At 74.70m unit has slickensided chloritic altered contact with an Andesite Dyke at 73° to C.A.</p>	604103	72.85-73.85	1.00	0.030
				604104	73.85-74.70	0.85	0.065
74.70	78.64	522	<p><b>ANDESITE DYKE</b> - Dark green, massive, fine grained unit core is blocky in this unit. Weak to moderately magnetic. Strong chlorite alteration particularly along fractures. 2mm quartz vein at 75.63m approx. 33° to C.A.</p>	604105	74.70-76.70	2.00	0.030



# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

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DDH#: HS97-01

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			At 78.60-78.64m epidote occurs in veins. Pyrite is finely disseminated throughout unit but is primarily found along fracture planes where it occurs as a thin coating, coarse crystals and fine grains	604106	76.70-78.64	1.97	0.015
78.64	114.60	412	78.64m - Possible gradational contact of unknown orientation to core axis with Dacitic-Andesitic Nodular Tuff. <b>DACITIC-ANDESITIC NODULAR &amp; LAPILLI TUFF</b> - Dark purplish green grey colour. Biotite rich matrix. Silicified.	604107	78.64-80.14	1.50	0.015
			78.64-78.97m - Fine grained nodular tuff with nodules <2mm diameter, disseminated pyrite @ 2% in fabric plane and along hairline silicified fracture @ 50° to C.A.	604108	80.14-81.96	1.82	0.030
			78.97-79.00m - Intensely pyritized and silicified zone (not a true vein) occurs at 50° to C.A.				
			79.00-81.96m - Nodular Tuff becomes much coarser grained grey green nodules to 1 cm diameter. Nodules have reaction rims. Fracturing primarily at 75° to C.A. and 20-25° to C.A. Fractures have bleached narrow (1-2mm) envelopes. Faults occur from 79.71-79.95m with broken core and minor gouge (orientation unknown), from 80.16-80.22m with 3 cm gouge at approx. 40° to C.A. at 80.47 with 0.5 cm of gouge and slickensides at 70° to 75° to C.A.				
			81.96-82.49m - Nodular tuff grades abruptly to a fine grained ash? tuff of the same colour and composition as coarse grained variety. Weak banding is evident that may reflect bedding. Banding is oriented at approx. 50-60° to C.A.	604109	81.96-82.55	0.59	0.050
			82.49-82.55m - Contorted white quartz vein with clay on contacts. Upper contact @ 30° to C.A. Lower contact approx. 65-70° to C.A.				
			82.55-86.57m - Coarse Grained Nodular Tuff. Abrupt change to coarse grained varied on lower quartz vein contact. Much coarser grained nodules than previous modules with diameters to 1.5 cm. At 86.34m one elongate nodule oriented 52° to C.A. is 4 cm long x 2 cm wide. Pyrite is concentrated around the rim of the nodules and within the nodules. Light coloured crystal shards(?) 1mmx4mm long impart a fabric to the rock oriented at approx. 50° to C.A. Pyrite is disseminated throughout to 1-2%. Minor fracturing.	604110	82.55-84.55	2.00	0.040
				604111	84.55-86.57	2.02	0.025

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			84.65m - Fault Zone - with 5 cm of brown clay rich gouge. Orientation is varied but approx. 45° to C.A.				
			86.57-87.17m - Fine Grained Ash Tuff of same composition and colour as coarse grained Nodular Tuff. Some greenish chlorite alteration.	604112	86.57-87.17	0.60	0.045
			At 86.85m 2.2-4m thick quartz veins cut unit at 20-25° to core axis.				
			87.17-87.98m - Coarse Grained Nodular Tuff - Same as coarse grained variety described from 82.55-86.57m. Finely disseminated and fracture controlled pyrite @ 1%. More prominent light coloured elongate light grey coloured shards? (1mm by 1 cm) oriented at approx. 55° to C.A.	604113	87.17-87.98	0.81	0.040
			87.98-88.53m - Fine Grained Ash? Tuff Dark grey green coloured with moderate chlorite alteration. Remnants of small mafic and feldspar phenocrysts are also found. Core broken up with clay and limonite occurring on fractures 20° to C.A.	604114	87.98-88.53	0.55	0.045
			88.53-89.24m - Coarse Grained Nodular Tuff - As from 87.17-87.98m but more crowded texture with nodules in much closer proximity to each other, sometimes touching each other. Minor fracturing. Pyrite is disseminated throughout at approx. 1%. At 88.65m coarse pyrite found along a fracture at @ 15° to C.A.	604115	88.53-89.24	0.71	0.065
			89.24-90.22 (approx.) - Fault Zone with minimum 30 cm core loss with possible orientation 60° to C.A.	604116	89.24-90.22	0.98	0.070
			90.22-93.27m - Coarse Grained Nodular Tuff - Textures less crowded and slightly finer grained nodular than at 88.53 to 89.24m. More intensely fractured. Shear zone from 91.35-91.53m at 45-50° to C.A.	604117	90.22-91.35	1.13	0.030
			Increased pyrite content to 3-5% in this section. Pyrite is more prevalent along low angle fractures from 91.53-93.27m. Nodules become more diffused and less prominent due to increased silicification.	604118	91.35-91.53	0.18	0.225
			93.27-98.23m - Intensely Silicified Nodular Tuff - Purplish to pinkish tinged lapilli tuff. Bleaching due to quartz veining and moderate silica flooding has obscured the nodular texture. Intense fracturing at various angles to core axis lend a slight brecciated appearance to the unit. Dominant fracturing at 60-65° to C.A. and 30-35° to C.A. Chlorite alteration forms sporadic green patches along fractures and quartz vein & veinlet margins.	604119	91.53-93.27	1.74	0.070
				604120	93.27-94.77	1.50	0.050
				604121	94.77-96.49	1.72	0.415

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			At 93.54m - 0.5 cm quartz vein cuts C.A. at approx. 30°. Chlorite alteration on margins. 1-3m wide pyrite veins at 93.60m (10° to C.A.) and at 93.90m (37° to C.A.). Pyrite is disseminated throughout unit at 1-3%				
			At 94.08 a 1 to 1.5 cm thick quartz vein with same coarse pyrite crystals and epidote? crystals cuts C.A. at 30°. Core is very black to 96.44m				
			<u>96.49-97.53m</u> - The unit is <u>intensely silicified with pervasive silica flooding</u> and at least 2 generations of quartz veining. Sulfide mineralization increases to 5%. Chlorite alteration along quartz vein margins and fracture surfaces lend green streaky tinge to the unit that is otherwise a creamy pink colour. Epidote is also found along some of the veins. Dominant mineralization veining is at 30-35° to C.A. and 10-17° to C.A.	604122	96.44-97.53	1.04	2.760
			97.16-97.30m - well mineralized vein with 2% sphalerite and 5% pyrite-galena-chalcopyrite				
			97.53-98.23 - is less well mineralized, fine grained massive. Sulfide mineralization is pyrite & sphalerite along quartz vein (2mm) from 98.17-98.23 at 13° to C.A.	604123	97.53-98.23	0.70	0.270
			98.23-107.10m - Coarse Grained Lapilli Tuff - Massive purplish brown, much less silicified, biotite altered Lapilli Tuff.				
			This unit is a variation of the Nodular Tuff unit with the same colour and composition. Fragments and crystal fragments are angular set in a matrix of biotite. Silicification lessens progressively down hole from 98.23m. Fragments to 3 cm diameter.	604124	98.23-98.90	0.67	0.170
			Pyrite mineralization follows a veined fracture from 98.90-99.36m at 10-15° to C.A. Pyrite is disseminated and fracture and vein controlled.	604125	98.90-99.36	0.46	0.620
			Quartz vein with pyrite at 99.82m 30-35° to C.A. Two generations of veining evident.	604126	99.36-100.86	1.50	0.200
			Quartz vein from 103.00-103.20m with bleached envelope. Hairline veins carry abundant pyrite 20° to C.A.	604127	100.86-102.36	1.50	0.160
			From 103.80-104.48 more intensely silicified and pyritized. Pyrite to 3%. 1-2mm wide quartz veins running 40° and 15° to 20° to C.A. are dominant.	604128	102.36-103.80	1.44	0.285
			105.45m - 4 cm gray green <u>fault gouge</u> orientation unknown. Caving in hole core is blocky to 107.10m with limonite staining.	604129	103.80-104.48	0.68	0.430
				604130	104.48-105.46	0.98	0.130
				604131	105.46-106.96	1.50	0.110

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			At 107.10m gradational contact, Nodular Tuff at approx. 45° to C.A.				
			107.10-114.60m - Coarse Grained Nodular Tuff - Dark purple brown to greenish.	604132	106.96-107.70	0.74	Not sampled
			From 107.10-108.60m - Stronger chlorite alteration imparts green colour. Fracturing is generally weak in this section.	604133	107.70-108.60	0.90	Not sampled
			107.70-108.60m - Zone of increased mineralization with fine grained pyrite outlining a fabric to the rock at 45-50° to C.A. Very sparse pyrite.	604134	108.60-110.60	2.00	Not sampled
			108.00m - 1 cm thick massive pyrite vein with sphalerite 40° to C.A.				
			108.10m - Quartz vein 3mm to 5mm thick carries pyrite and sphalerite at 35° to C.A.	604135	110.60-112.60	2.00	Not sampled
			111.06m - 1 cm wide Fault Gouge 50° to C.A.	604136	112.60-114.60	2.00	Not sampled
			114.60: End of Hole (E.O.H.)				

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**SECTION:** 30163N

**Diamond Drill Log**

**DDH#:** HS97-02

Northing: 301+63N  
 Easting: 314+10E  
 Elevation: 858m  
 Azimuth: 230  
 Inclination: -55°  
 Grid: Aranleee  
 Length (m): 148.13m  
 Core size: N.O.2  
 Contractor: F. Boisvenu  
 Drill Type: Boyle 37

Drill Hole survey		
Method: <u>Acid</u>		
Azimuth	Dip	Depth
230°	-55	0
230°		30.48

Property: Hotspring  
 NTS: 97G/9+16  
 Claim: Hotspring 7  
 Date Started: Sept.10/97 3:00p.m.  
 Date Completed: Sept.14/97 5:00p.m.  
 Logged by: W. B. Lennan & J. T. Shearer

**Purpose:** To test zone at trench T-10 to the southeast

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.05	9	<b>CASING</b> - Overburden				
3.05	58.22	314	<b>SILICEOUS LAPILLI (Fragmental) TUFF</b> - White to grey fine grained siliceous matrix with coarse lapilli fragments and altered feldspar phenocrysts or crystal fragments and quartz eyes? Near surface oxidation gives strong limonitic staining along fractures. Fragments up to 2 - 3 cm diameter. The unit is highly silicified with at least 2 phases of veining as at 5.05-5.15m. Pyrite is disseminated throughout unit and is also strong controlled by fracture quartz veins and veinlets. Pyrite is 1-2% Sphalerite is primarily found along vein margins. 8.90-9.90m - more "porphyritic" section with small <3mm feldspar phenocrysts. 3.23-3.37m - White quartz vein 55° to C.A. with pyrite. Fracturing 75° to C.A. 3.80-4.00m - Broken core of quartz vein. Quartz veining with sphalerite & pyrite from 3.70-3.80m, 5.11-5.60 at 20-25° to C.A. and 60° to C.A. at 5.80m, 6.32-6.73m - Faulted quartz vein with sphalerite & minor chalcopyrite with pyrite at 60-65° to C.A. Fault Gouge with fuchite at 6.48m at 45°-50° to C.A. Lower contact of Fault Gouge Zone at 6.73m at approx. 55° to C.A. 6.95-7.05m - 1.5 cm wide quartz vein and alteration envelope at 25-30° to C.A. 7.80-7.92 - 0.5 to 1.0 cm wide quartz vein with sphalerite along margins at ≈10° to C.A.	604137	3.05-4.05	1.00	0.845
				604138	4.05-4.55	1.00	0.980
				604139	5.11-5.80	0.69	1.450
				604140	5.80-6.32	0.52	0.695
				604141	6.32-6.73	0.41	0.740
				604142	6.73-8.23	1.50	0.725
				604143	8.23-9.73	1.50	0.495
				604144	9.73-10.97	1.24	0.570

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			7.92-8.03m - An approximately 10 cm thick quartz vein (white) cuts core axis at unknown orientation.	604145	10.97-12.00	1.03	1.130
			Core is very broken & blocky and limonite stained at 14.02m.	604146	12.00-13.50	1.50	0.900
			11.00-15.63m - Strong quartz flooding by pervasive silicification and quartz veining primarily at 30-35° to C.A. and lesser amounts at 20° to C.A. Strong veining from 11.00-11.65m	604147	13.50-14.65	1.15	0.715
			12.10-12.30m				
			12.35-12.55m > core loss just before 13.35m				
			14.33-14.65m				
		→	14.65-15.63m - Quartz flooding with major 2.5 cm quartz vein from 15.35-15.63m at 10-15° to C.A. Strong pyrite and sphalerite (2-4% Py) (2% Sph.) Galena?	604148	14.65-15.63	0.98	1.300
			15.63-16.33m - More massive and less veined section showing "porphyritic" texture with white 1-3mm altered feldspar phenos and small mafic phenocrysts replaced with pyrite.	604149	15.63-16.33	0.70	0.900
			16.35-16.45m - 4 cm well mineralized quartz vein with fine grained pyrite and minor sphalerite.	604150	16.33-17.83	1.50	0.715
			16.45-23.02m - Strong silica flooding with at least two phases evident. Pyrite mineralization is strong throughout this section while sphalerite is strong along low angle to C.A. (20°) vein margins. Unit appears to have been brecciated and healed with quartz, however, it may be original angular lapilli fragments. Large fragments to 3 cm x 5 cm are seen from 18.30 to m. Quartz veining is contorted in this section.				
			Large quartz veins are observed at 18.11-18.22m - 2 cm thick at 35° to C.A. 18.64-	604151	17.83-18.64	0.81	0.310
			18.87m - 8 cm thick at 33° to C.A.	604152	18.64-18.87	0.23	0.785
			At 18.50m - 0.5 cm vein carries specks of sphalerite at 50° to C.A.				
			19.80-19.90m - Sphalerite occurs along quartz vein at 15-20° ? to C.A.	604153	18.87-20.37	1.50	0.610
			20.12-20.22m - 6-7 cm thick quartz vein with sphalerite at 40-45° to C.A.				
			20.50-20.67m - 0.5 cm thick quartz vein with coarse sphalerite grains along vein margins at 15-20° C.A. Unit has brecciated appearance in this section.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Silicification and quartz flooding remain intense with 2-5% pyrite as disseminations and along veins, veinlets and fractures. Pyrite and sphalerite on fine veinlets at 70° to C.A. from 20.80-21.10m gives a banded appearance to unit. Light to dark grey (darker grey with increased sulfide content). Fracturing at 23-25° to C.A. "Fuchite" ? at 20.94m. 21.0m - Sphalerite specks along vein margins.	604154	20.37-21.40	1.03	0.520
			21.40-22.04m - 1-2% sphalerite and pyrite along 0.2 cm to 3 cm quartz veins at 35° to C.A.	604155	21.40-22.04	0.64	0.910
			22.37-22.50m - Sphalerite along quartz vein (0.5 cm) 10° to C.A.	604156	22.04-23.02	0.98	0.980
			22.80-23.02m - Cream coloured quartz veining system at 45° to C.A. with fine pyrite and sphalerite (<0.5%) mineralization.				
			23.02-27.88m - Silica flooding and quartz vein diminishes, however, unit is well silicified. Fragmental texture is more prominent due to less silicification.	604157	23.02-24.52	1.50	1.215
			Angular fragments to 2 cm diameter are observed. Patchy sphalerite at 24.0m.	604158	24.52-26.02	1.50	1.620
			24.80-24.85m - 5 cm thick quartz vein at 75° to C.A.	604159	26.02-27.88	1.86	0.965
			26.21m - Drill problems: loss 0.74m of core.				
			27.88 - Light grey siliceous fragmental tuff becomes more siliceous with pervasive quartz flooding. Fragmental edges blend in more with grey siliceous matrix. 1 large fragment with a 10 cm ? diameter is at 28.80m. 1-2% pyrite.	604160	27.88-29.38	1.50	0.350
			28.53-29.00m - Core is blocky due to limonite stained fractures 35° and 70° to C.A.. Pyrite coats most of these fractures. At 29.56m tuff exhibits a porphyritic texture with ghosts of phenocrysts or crystal fragments.	604161	29.38-30.57	1.19	0.260
			29.70-30.57m - Quartz matrix around fragments increases.				
			30.57-32.06m - Quartz Vein System - blocky core - very broken up. Strong limonite staining. Upper contact 25° to C.A. Lower contact approx. 50° to C.A.	604162	30.57-32.06	1.49	0.445
			From 32.06m the unit takes on a more amorphous grey colour with original texture being "bleached" out. Sphalerite is more prevalent in quartz veins with pyrite in this section.	604163	32.06-33.56	1.50	0.630

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			32.82m - Quartz vein with sphalerite and pyrite at $\approx 20^\circ$ to C.A.	604164	33.56-35.06	1.50	0.535
			33.95-34.17m - Quartz vein as above at an irregular angle.	604165	35.06-36.56	1.50	0.675
			35.60m - 1 cm quartz vein with sphalerite and pyrite at $15^\circ$ ? to C.A. contorted.	604166	36.56-38.06	1.50	0.335
			36.15m - 1 cm quartz vein with sphalerite and pyrite.				
			37.07m - 2 cm quartz vein with sphalerite and pyrite - $75^\circ$ to C.A.				
			37.55-37.74m - 2 cm quartz vein with sphalerite and pyrite $10-15^\circ$ to C.A.	604167	38.06-39.56	1.50	0.640
			37.80-38.90m - Moderate sphalerite (1%) throughout section in network of quartz veins.				
			38.90-38.97m - Large 6 cm diameter rusted fragments (angular).				
			38.40-43.40m - Fragmental texture is more prominent while quartz flooding and veining is intense. Pyrite mineralization is disseminated throughout and is also concentrated along vein margins and on fracture coating (often as coarse crystals). Sphalerite mineralization is primarily confined to greyish quartz vein margins. Fracturing at $\approx 20^\circ$ to C.A. is not intense but stands out due to strong limonite staining. One of these fractures extends along the core from 40.68 to 41.30m at $10^\circ$ to C.A.	604168	39.56-41.06	1.50	0.715
			At least 2 stages of mineralized quartz veining are evident particularly at 41.01m and at 41.62m. More phases may exist.	604169	41.06-42.56	1.50	0.530
			→ In this area, mineralized veining cuts core axis between $45-55^\circ$ indicating near vertical or flat lying vein trends. Several quartz veins at $20-25^\circ$ to C.A. are also present.	604170	42.56-43.40	0.84	0.645
			Major quartz vein intersections are at: 30.98m - 2.5 cm wide vein at $55^\circ$ to C.A. with 3-4% pyrite and 1% sphalerite. 40.76m - 1 cm wide quartz vein with coarse pyrite and sphalerite on vein margins at $25^\circ$ to C.A. 41.45m-41.57m - 10 to 11 cm wide well mineralized quartz vein at $50-55^\circ$ to C.A. with 1-2% sphalerite and 3-4% pyrite. A small vein (1 cm) cuts the main vein. 42.26m - 5 cm wide mineralized quartz vein $55-60^\circ$ to C.A. with 0.5 cm thick cross cutting vein at $\approx 15^\circ$ to C.A. 44.33m - 1 cm mineralized vein at $45^\circ$ to C.A.				



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			43.40-45.04m - Fragmental texture becomes obliterated by pervasive quartz flooding. Dominant fracturing 45° to C.A.	604171	43.40-45.04	1.64	0.645
			45.04-48.08m - Fragmental textures of siliceous tuff is more evident although often with ghostly outlines of fragments due to the pervasive silicification. Light purplish colour to unit due to weak secondary biotite alteration. Stronger biotite alteration patches from 45.90-47.20m. Pyrite 1-2% as dissemination and fracture coatings.	604172	45.04-45.90	0.86	0.450
				604173	45.90-47.20	1.90	0.450
			46.10-46.28m - Quartz vein with strong biotite alteration and pyrite mineralization approx. 25° to C.A.	604174	47.20-47.84	0.64	0.280
			47.84-48.07m - Well mineralized quartz vein with 5 to 8% pyrite and <1% sphalerite. Magnetic. Poorly defined orientation but ≈45-50° to C.A. is apparent.	604175	47.84-48.07	0.23	1.515
			48.08-50.08m - Fragmental texture becomes less well defined as pervasive silicification increases. Bluish grey quartz veins increase in number with a greater amount of sphalerite mineralization.	604176	48.07-49.57	1.50	0.455
			48.72-48.80m - 6.5 cm bluish grey quartz vein with pyrite and sphalerite at 75° to C.A.				
			49.10-49.42m - Several contorted 0.5 cm to 1 cm bluish grey quartz veins occur with sphalerite grains on vein margins.				
			50.20-53.30m - Quartz veining increases dramatically. Secondary biotite patches within the veins lend a purplish colouration to some of the veins. Pyrite locally up to 5% in veins and 1% in fragmental host unit.	604177	49.57-50.20	0.63	0.250
			Mineralized Quartz Veins.	604178	50.20-51.60	1.40	0.865
			-50.21-50.24m - 3 to 4 cm thick, 62° to C.A. with specks of sphalerite (<1%). Minor pyrite.				
			50.36-50.50m - 6.0 to 10 cm thick with coarse pyrite and abundant secondary biotite. 0.5 cm patch of fuchite? Vein at 55° to C.A. Rusted sphalerite? grains. Pyrite = 5%, Sphalerite = 1%. Specks of chalcopyrite.				
			50.67 - Quartz filling patch well pyritized 5-7% and minor sphalerite specks.				
			51.10-51.23m - Blue grey pyritized quartz vein approx. 8 cm thick at 25-30° to C.A.	604179	51.60-52.65	1.05	1.080
			51.62-52.10m - Quartz vein flooding with fragmental host fragments "floating" within vein system. Vein is 50-60° to C.A. Coarse sphalerite grains occur sporadically along vein margins and fractures within vein.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			52.65-53.15m - White quartz vein, heavily limonite stained and very broken up. Blocky core. Minor sulfide mineralization. Upper & lower contacts 27-30° to C.A.	604180	52.65-53.15	0.50	0.190
			Silicified Fragmental (Lapilli Tuff)	604181	53.15-54.65	1.50	0.305
			53.330-58.22?m - Silicification is still intense, however, the frequency of quartz veining is reduced from the area described above.				
			From 54.94-55.60m - Core very broken and blocky - limonite stained due to fracturing parallel to core axis and at 15-20° to C.A.	604182	54.65-56.15	1.50	0.475
			Significant mineralized quartz veins at 55.94m and 56.10m - both 2 to 4 cm thick and at 40° to C.A. and 55° to C.A. Pyrite and sphalerite mineralization occur in both veins.	604183	56.15-58.22	2.07	0.400
			58.22m - Siliceous lapilli (Fragmental) Tuff Unit contacts Pale Green Tuff of Unit 7 or possibly Unit 8 Andesite Tuff. The contact is sharp and appears to be at approx. 17° to C.A.				
58.22	71.86	711	<b>PALE GREEN TUFF</b>				
			Light grey green, siliceous and massive tuff. Very fine grained with ghost feldspar crystal fragments and mafic ? crystal fragments.	604184	58.22-60.22	2.00	0.015
			Blocky core - very broken up due to low angle fracturing 20-25° to C.A. Pyrite is very fine grained and disseminated throughout unit but <0.5%. Coarser pyrite concentrated on fracture surfaces.	604185	60.22-62.22	2.00	0.010
			Very minor quartz veining. Clay and chlorite alteration selvages along vein margins. unit is pervasively silicified and argillically altered. At 63.52m 3mm thick quartz vein 65° to C.A. carries pyrite, galena and sphalerite.	604186	62.22-64.22	2.00	0.010
			At 64.54m - two 2-3mm thick veins at 75-80° to C.A. and one 3mm thick vein at 30° to C.A. carry pyrite, sphalerite and galena? Clay and chlorite core at 65.4m	604187	64.22-66.22	2.00	0.010
			65.84-66.21m - narrow quartz veins as above continue with mineralization and alteration as above.				
			66.30-66.73m - Blocky core with strong limonite coating on fracture surfaces 25-50° to C.A. Pyrite & sphalerite ? on hairline quartz veins.	604188	66.22-68.22	2.00	0.010
			68.83 - 1.5 cm thick quartz vein 33° to C.A. Coarse pyrite along centre of vein. Bleached 0.5 cm alteration envelope along vein margins.	604189	68.22-70.22	2.00	0.010
				604190	70.22-72.41	2.19	0.035

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			1% pyrite finely disseminated throughout unit.				
			66.73-71.86 - Pale green tuff unit continues with mottled (weak) appearance with darker green section and a lacework of creamy green alteration envelopes along fractures and quartz veins particularly from 68.10-68.80m and 69.30-69.70m. Also from 69.30-69.70m - 102mm long remnants of mafic crystals replaced with pyrite. Pyritized and limonite stained fractures 15° to C.A.				
			70.55-71.62m - Core very broken and blocky. Limonite and argillic ? alteration is strong as fracturing at 15-20° is close space				
			71.74 - Strongly mineralized quartz vein at 32° to C.A. Vein is approx. 1.30 cm thick with pyritized core approx. 1mm thick. Pyrite, sphalerite, galena and chalcopyrite.				
71.86	72.41	314	71.86-72.41m - <b>CONTACT ZONE with SILICEOUS LAPILLI (Fragmental) TUFF</b> - Very irregular contact with contact running roughly parallel to core axis at ≈15-20° then 30° to C.A. at 72.41. At 72.41m - 2 phases of quartz veining evident with 1 cm thick early phase at 20° to C.A. with pyrite cut by a later stage weakly pyritized 1 cm thick vein 75° to C.A.				
72.41		314	<b>SILICEOUS LAPILLI to FRAGMENTAL TUFF</b> - Massive light grey with white altered angular fragments. Some large fragments to 6 cm diameter but most <1 cm diameter, Main oxidized (limonite coated) fractures 15-20° to C.A. and 75° to C.A. Weak secondary biotite alteration. Pyrite is finely disseminated throughout (<1%) as well as occurring in hairline fractures and veins and on rims around lapilli fragments. From 72.41-78.00m pyrite and sphalerite mineralized vein are not closely spaced. The main veins are at 70-75° C.A.	604191	72.41-73.91	1.50	0.085
			73.98m - 1 cm poorly mineralized bluish grey quartz vein.	604192	73.91-75.41	1.50	0.190
			74.08m - 2 cm thick bluish grey quartz vein at 45° to C.A. (approx.) with fine grained pyrite and sphalerite.				
			75.50m - 1.0-1.5cm thick bluish grey quartz vein with contorted boundaries at approx. 25° to C.A. 1-2% sphalerite grains along vein margins and within vein core in patches. Pyrite ≈2-3% sphalerite.	604193	75.41-76.91	1.50	0.320
				604194	76.91-78.00	1.09	0.280

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			75.90m $\approx$ 1.0 cm vein at approx. 40° to C.A.				
			76.00-76.25m - Patches to 1 cm long of pyrite around fragments and 1-2 mm thick pyritized $\pm$ sphalerite contorted veinlets 10-15° to C.A.				
			77.05m - 1.0-1.5 cm thick bluish grey quartz vein at 33-35° to C.A. with fine grained pyrite and sphalerite				
		*	78.0-83.77m - Silicification and quartz veining increases in intensity. Sulfide mineralization (both pyrite & sphalerite) content also increases.				
		+	78.0-79.34m - A 4-5 cm thick quartz vein runs roughly parallel to the core axis although it is very contorted from 78.0-78.35m. The vein & core are broken up and limonite stained. Pyrite mineralization is strong in the vein at 5% in areas. Sphalerite is scattered throughout vein in trains along vein margins and along internal vein growth boundaries.	604195	78.00-79.34	1.34	0.505
				604196	79.34-80.03	0.69	0.110
				604197	80.03-81.69	1.66	0.125
		*	80.13m - Massive pyrite vein 0.3-1 cm thick cuts C.A. at 20-30°	604198	81.69-82.69	1.00	0.215
			80.95m - 1.5 cm quartz vein at 82° to C.A. cuts all adjacent veins (mostly unmineralized)				
			81.0m - Coarse pyrite on quartz vein margin 33° to C.A.	604199	82.69-83.77	1.08	0.110
			81.41m - Bluish grey quartz vein 3-4 cm thick ? with contorted $\approx$ 15-20° angle to C.A. 1% sphalerite, 2-3% pyrite	604200	83.77-85.27	1.50	0.040
			83.77-89.68m - Light Grey Siliceous Lapilli (Fragmental) Tuff - continues with a lesser frequency of significant quartz veining.	604201	85.27-86.77	1.50	0.050
			Distinct lapilli fragments generally <1 cm in diameter. Micro veining and fractures at 30-35° to C.A. and 75° to C.A.	604202	86.77-88.27	1.50	0.090
			84.45-85.0m - Broken core, strong limonite staining on dominant intersecting low angle 15-20° to C.A. fracture.	604203	88.27-89.68	1.41	0.025
			85.05m - Pyrite mineralization along contorted veinlets at 20° and 75° to C.A. Weak chlorite alteration along some veinlets.				
			85.66m - as above at 85.05m				
			85.85-86.12m - 2 cm wide open space <u>Fault Zone</u> with "nodule shaped" drusy quartz cemented fault fragments at 15-20° to C.A.				
			87.10-87.80m - Blocky core with limonite stained 15° to C.A. fractures. Increased pyrite content along hairline veins and fractures 30° to C.A. and 65° to C.A.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			87.80-89.68m - Section is silicified but not intensely veined. <1% pyrite as disseminations with most mineralization confined to veinlets and fracture planes.				
			89.30m - 0.5 cm quartz vein with sphalerite				
			Lapilli Tuff - more intensely silicified with obliteration of fragments. Chlorite and talc? alteration along some fractures.	604204	89.68-91.00	1.32	0.090
			Fracturing and veining increases	604205	91.00-91.80	0.80	0.230
			At 91.45m - 3 cm quartz veins 65° to C.A. contorted boundaries with pyrite and sphalerite (brown & yellow)				
			At 91.60m - 20° to C.A. pyrite filled fracture or veinlet.				
			91.75-91.80m - Sericite altered shear ? zone 20° to C.A.				
			Not as intensely veined and fragments distinct with sharp outlines	604206	91.80-93.27	1.47	0.035
			92.04m - 4 cm quartz vein 35° to C.A. with chlorite alteration. Pyrite is finely disseminated (<1%) but mainly on hairline fractures.	604207	93.27-95.00	1.73	0.145
				604208	95.00-97.00	2.00	0.060
			92.85-93.27m - 1-2 m thick pyrite vein 5° to C.A. Core is blocky in this section.	604209	97.00-99.00	2.00	0.050
			93.27-115.40m - uniformly highly silicified moderate wispy chlorite with pyrite along quartz veins and veinlets and chlorite fractures.	604210	99.00-101.00	2.00	0.030
				604211	101.00-103.00	2.00	0.005
			Mottled wispy pattern with chloritic matrix around fragments.	604212	103.00-105.00	2.00	0.080
			Pyritic veinlets at 97.85m at 75° and 30° to C.A.	604213	105.00-107.00	2.00	0.035
			99.46m at 25° to C.A. and at 103.77m with strong chlorite at 25° to C.A.	604214	107.00-109.00	2.00	0.040
			From 105.0m - Pyrite content increases in content along fractures and around lapilli fragment.	604215	109.00-110.50	1.50	0.025
				604216	110.50-112.00	1.50	0.050
			At 107.25 - Sphalerite in 1 cm wide quartz vein contorted 30-50° to C.A.	604217	112.00-113.50	1.50	0.620
			Pyrite and sphalerite in quartz vein at 113.30m.	604218	113.50-115.40	1.90	0.160
115.40	117.90	311	<b>SILICEOUS FELSIC TUFF</b> - Massive fine grained. No distinct lapilli fragments. Pervasively silicified but only minor quartz veining. Sericite alteration of feldspar and along hairline fractures. Weak chlorite alteration along fracture and veinlet margins. Fracturing primarily at 30-35° to C.A. and 80° to C.A. 115.76m - 3 cm veinlet carrying sphalerite & pyrite at 55° to C.A.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			116.0-116.40m - Broken core - limonite staining along fractures 10-12° to C.A.	604219	115.40-116.40	1.00	0.035
			Much more intense pyrite and increase in sphalerite in 5 to 15mm quartz veins at 60-65° to C.A., 45° to C.A. and 15° to C.A.	604220	116.40-117.90	1.50	0.115
117.90	127.00	412	<b>DACITIC ANDESITIC LAPILLI TUFFS</b> - Coarse grained with crystal and lithic fragments to 3 cm diameter. Strongly silicified and pyritized. Purple colour due to secondary biotite. Chlorite alteration is strong around fragments and along vein margins and fracture planes.				
			<i>Strongly silicified with bleaching of biotite to give unit a light pinkish grey colour. Fragments appear as "ghost" outlines. Pyrite and sphalerite on 10mm veins at 118.00m and 118.36m at 60° to C.A.</i>	604221	117.90-119.30	1.40	0.260
			Return to purple biotite rich lapilli tuff. Coarse grained, silicified. Several grey-white quartz veins with strong pyrite mineralization & 2 varieties of sphalerite and minor galena specks. Overall pyrite 5-7% disseminated and along veins and fractures.	604222	119.30-121.00	1.70	0.100
			1-3 cm thick quartz veins mainly 60° to C.A.				
			1.0 cm quartz vein at 121.35-121.55m at 15° to C.A. with pyrite and chlorite alteration.	604223	121.00-123.00	2.00	0.055
			121.77m - 5 cm thick quartz vein with pyrite and sphalerite. From 122.07 to 123.0m core is blocky due to strong fracturing 15-20° to C.A.				
			As above but pyrite content and chlorite alteration is stronger.	604224	123.00-125.00	2.00	0.030
			Pyrite 1-3%, chlorite alteration strongest along low angle to C.A. fractures and around fragments and vein margins. Core remains blocky with limonite stained low angle (15-20° to C.A.) fracturing. Sphalerite is minor				
			This appears to grade to a pink colour. Very fine grained siliceous "porphyritic" version of similar composition.	604225	125.00-127.00	2.00	<0.005
127.00	128.60	212	<b>SILICEOUS FELSIC TUFF</b> - Massive very fine grained, pink colour with "ghost" outlines of feldspar phenocrysts or crystal fragments. Orientation of upper contact unknown. Mafic? crystals appear to be replaced with pyrite. Hairline fractures at all angles to C.A. show very distinctive "bleached" alteration envelopes.	604226	127.00-128.60	1.60	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Very fine grained pyrite (dusty pyrite) forms narrow dendritic shaped selvages along fractures and blotches to 3mm in diameter at hairline fracture intersection. This is particularly evident at 128m. At 128.6m - Contact with Purple Dacitic Andesitic Lapilli Tuffs at 26° to C.A.				
128.60	129.44	412	<b>DACITIC ANDESITIC LAPILLI TUFF</b> - Dark purple coarse grained with angular fragments to 20mm diameter. Laced with 1-2mm thick quartz veins with pyrite. Strong chlorite alteration imparts greenish patchy coloration in place of purple biotitic alteration At 129.44m - The unit is in contact with a fine grained grey Siliceous Felsic Tuff at 40° to C.A.	604227	128.60-129.44	0.84	<0.005
129.44	130.50	711	<b>PALE GREEN GREY TUFF</b> - Very fine grained with ghost feldspar crystal fragments or phenocrysts. Strong limonite staining on oxidized fractures at 5-10° to C.A. Minor finely disseminated pyrite throughout.	604228	129.44-130.50	1.06	<0.005
130.50	148.13	412	<b>DACITIC ANDESITIC NODULAR TUFF</b> - Dark purplish grey, coarse grained unit with light grey green subrounded nodules and fragments to 20mm diameter. Moderate to strong pyrite mineralization 3-5% as disseminations around lapilli fragment rims and along fractures and veins particularly at 131.3m Chlorite alteration forms grey green patches and occurs primarily as fracture coatings.	604229	130.50-132.00	1.50	<0.005
			Angular lapilli fragments to 2 cm diameter occur with nodules.	604230	132.00-134.00	2.00	<0.005
			From 134.4-134.8m - Light grey siliceous quartz flooding bleaching of unit leaves patches of biotite alteration.	604231	134.00-136.00	2.00	0.020
			Massive Nodular Tuff - With angular fragments to 3 cm diameter. Pyrite zone from 136.48-136.61, 137.2-137.4m and 137.5-137.8m.	604232	136.00-138.00	2.00	<0.005
			A 6 cm thick white quartz vein with some sericite alteration occurs from 137.10-137.16m at 47° to C.A. 5% Pyrite at 329.1 and 139.60-139.65m	604233	138.00-140.00	2.00	0.040
			Nodular and fragmental tuff continues with fragments to 20mm diameter. Strong pyrite (5-8%) and chlorite alteration along fragments rims and contorted veining from 140.32-140.46m. 1.5 cm quartz vein at 140.85m at 60° to C.A.	604234	140.00-141.40	1.40	0.040

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			At 141.40m - Strongly silicified chlorite altered and veined Nodular Tuff continues to 144.0m. Purplish biotite alteration is bleached to pinkish colour mixed with green chlorite alteration. 12 cm thick quartz vein from 141.94-142.08m with upper contact at 40-45° to C.A. Lower contact is not distinct. Minor sphalerite and 5% pyrite.	604235	141.40-143.00	1.60	0.200
			Bleaching is reduced with less veining and silicification. Purplish biotite alteration increases. Small chlorite altered, bleached and veined (quartz) area from 143.40-143.63m at 30° to C.A.	604236	143.00-144.00	1.00	0.045
			Coarse grained nodular tuff with 3-5% pyrite in veinlets and around rims of nodules and fragments. Small veined and chlorite altered pyritized section from 146.67-147.95m.	604237	144.00-146.00	2.00	0.015
				604238	146.00-148.13	2.13	0.025

148.13m: End of Hole (E.O.H.)



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			<b>LAPILLI FRAGMENTS</b> - more prominent to 3 cm diameter angular, 2% pyrite as disseminations and along fractures. Sphalerite in quartz veins at 19.10-19.21m at 42° to C.A. and at 19.70m (2 cm thick) at 58° to C.A.	604247	19.00-21.10	2.10	1.160
			<b>STRONG PYRITIC ZONE</b> - Quartz veining (at least 2 stages) at 22° to C.A. and 45° to C.A. Pyrite 5%. Sphalerite along vein margins to 2% in places.	604248	21.10-21.67	0.57	1.225
			<b>COARSE FELSIC LAPILLI TUFF</b> - With angular fragments to 5 cm diameter. Quartz veining with irregular orientation to core axis. Most prominent fracturing at 65° to C.A. Broken core in quartz vein from 22.70-23.00m at 40° to C.A. with minor sphalerite and pyrite.	604249	21.67-23.00	1.33	1.240
			As above but becoming progressively more silicified, well pyritized section from 23.80-23.90m. 1 cm thick bluish grey quartz vein running roughly parallel to C.A. (5°) from 23.90 to 24.16m with sphalerite grains along vein margins. Patch of fuchite? at 24.29m From 24.32-24.85m - limonite stained fracturing at 20° and 55° to C.A.	604250	23.00-25.00	2.00	0.955
			Strongly silicified <b>SILICEOUS LAPILLI TUFF</b> continues as above. Elongate angular fragments lend a fabric to the unit at approximately 56° to C.A.	604251	25.00-26.00	1.00	0.770
			<b>FELSIC LAPILLI TUFF</b> - Is less silicified and exhibits white argillically altered fragments. Core is very broken up with fracturing (limonite stained) paralleling the core axis for most of this interval. <b>Shear Zone</b> - 10 cm core loss.	604252	26.00-27.50	1.50	0.640
			Argillically altered very coarse <b>FELSIC LAPILLI TUFF</b> becomes progressively silicified towards 28.0m. Fragments to 2 cm x 4 cm occur. Pyrite mineralization as dusty grains increases to ≈2% along hairline fractures and as rims around fragments. From 28.88-29.10m - White mottled quartz vein with strong chlorite alteration along vein contacts and fractures within vein. Purplish patches within vein may be manganese? staining. Upper contact at 45° to C.A. Lower contact is at 60° to C.A.	604253	27.50-29.10	1.60	0.480
29.10	34.85	711	<b>PALE GREEN SILICEOUS TUFF</b> - Creamy pale green, very fine grained unit, very silicified.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width h (m)	Au (g/t)
			The unit occasionally exhibits a weak porphyritic texture with relic mafic? and feldspar crystal fragments. Patchy chlorite alteration along fractures. Invasive limonite staining permeating into unit from fractures cast a patchy purplish brown tinge to unit. Small 1-3mm quartz veins with pyrite have 1-2mm wide bleached alteration envelopes. Core is blocky and some core loss from 31.15-31.30m.				
			hairline and 1-2mm thick pyritized quartz vein primarily 65-85° to C.A.	604254	29.10-31.00	1.90	0.030
			From 31.10m - <b>TUFF</b> unit is very broken up. Blocky core and difficult drilling.	604255	31.00-33.00	2.00	0.120
		*	Strong limonite alteration, possible large fault zone. 65% core recovery.				
			As above - very broken, blocky core continued <b>FAULT ZONE?</b> in Tuff unit. Core recover 70% Heavy limonite staining and black coating on fractures.	604256	33.00-34.85	1.85	<0.005
34.85	53.90	314	At 34.85m - Assumed lower contact <b>SILICEOUS FELSIC LAPILLI (FRAGMENTAL) TUFF</b>				
			Some very silicified grey to greenish grey unit with Lapilli fragments to 20mm diameter. Moderately well quartz veined with at least 2 stages of veining. Pyrite is generally 1% with 1% sphalerite along vein margins.				
			30mm thick sphalerite quartz vein at 32.27m at 45° to 50° to C.A.	604257	34.85-36.00	1.15	1.270
			From 38.80-36.0m - 20 to 30mm thick irregular bluish grey quartz vein runs roughly parallel to the C.A. It carries pyrite and minor sphalerite.				
			Quartz veining with sphalerite and pyrite. From 36.8-36.97m - Strongly pyritized vein at 15° to 20° to C.A.	604258	36.00-37.00	1.00	0.985
			Quartz vein with +2% sphalerite ≈60° to C.A. and dusty pyrite strongly silicified	604259	37.00-37.85	0.85	0.975
			<b>FELSIC LAPILLI TUFF</b> with specks of sphalerite on vein margins.	604260	37.85-38.07	0.22	0.970
			As above but veining appears to be at 15° to C.A. Carries sphalerite and pyrite.	604261	38.07-39.00	0.93	0.770
			Secondary biotite and chlorite alteration particularly at 39.7m.	604262	39.00-40.00	1.00	1.840
			More pervasive silicification and less prominent veining.	604263	40.00-41.00	1.00	2.780
			Heavily limonite stained and broken blocky core. Fracturing is parallel to or 15-20° to C.A. Small core loss (<10 cm).	604264	41.00-42.00	1.00	1.015
			As above.	604265	42.00-44.00	2.00	0.810

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			As above with strong limonite and fracturing 35° to C.A.	604266	44.00-44.81	0.81	0.550
		*	Strongly veined and silicified with good mineralized section with sphalerite and pyrite. Galena is observed at 44.91m and 45.6m.	604267	44.81-46.00	1.19	3.260
			Pervasively silicified <b>FELSIC LAPILLI TUFF</b> . Veining and mineralization much less intense. Good sphalerite in vein at 46.80m. Very irregular orientation.	604268	46.00-48.00	2.00	0.580
			As above but minor sulfides.	604269	48.00-48.95	0.95	0.260
			<b>FELSIC LAPILLI TUFF</b> - changes abruptly to a dark grey, intensely silicified and quartz veined with fine grained pyrite, sphalerite and minor galena. Most lapilli fragments are obliterated by silicification however, from 49.75-49.90m large fragments to 10 cm diameter occur. Veining appears to be 15-20° to C.A. but is convoluted.	604270	48.95-50.00	1.05	1.450
		*	As above but with specks of galena with pyrite and sphalerite at 50.73m and 51.06m.	604271	50.00-51.40	1.40	2.060
			Strongly bleached and silicified. Only ghost outlines of crystal and lapilli fragments remain.	604272	51.40-53.00	1.60	0.085
			From 51.7-50.04m - Is a shear zone with brittle fracture fragments of the unit. Clay alteration occurs on some shear planes. Shearing is at approx. 65-70° to C.A. Weak sulfide mineralization (pyrite). Patchy, weak chlorite alteration along some fracture planes.				
			From 52.2-53.0m - Core is blocky due to fracturing 5-15° to C.A. and 30° to C.A.				
			As above but very broken and blocky core. intense limonite staining.	604273	53.00-53.90	0.90	0.350
			At 53.90m - Lower contacts at 35° to C.A. Clay gouge material occurs along contact plane.				
53.90	67.20	522	<b>ANDESITE DYKE</b> Dark green to nearly black intensely dioritized dyke. Slightly porphyritic with small feldspar phenocrysts (<2mm diameter). Fracture surfaces coated with coarse pyrite weakly magnetic.				
			From the contact at 53.9m to 56.8m the unit is intensely oxidized with strong limonite crusts on fractures of all angles to core axis. Core is very blocky due to the dominance of fractures at 10-15° to C.A. Chlorite alteration is concentrated on fracture planes. Epidote occurs as veinlets from 55.80-56.00m.	604274	53.90-56.00	2.10	0.145

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from (m)	to (m)	Code	Description	sample No.	from/to	width h (m)	Au (g/t)
			Coarse pyrite is found primarily along fracture planes while fine grained pyrite is mainly found as disseminations throughout unit.				
			As above but fracturing less intense and less limonite staining. Epidote veinlets from 65.80-57.00m.	604275	56.00-57.00	1.00	0.150
			More massive dark green fine grained andesite dyke. Narrow fault gouge zone (10mm) at 58.3m and 58.48m at 40° to C.A. approximately.	604276	57.00-59.00	2.00	0.275
			Fracturing mainly at 55° to C.A. and 25-30° to C.A. Strong chlorite alteration. Epidote vein 10 to 15mm thick at 61.52m at 43° to C.A. Weak porphyritic texture with ghostly outline of feldspar phenocrysts.	604277	59.00-61.00	2.00	0.030
			Pyritized fractures. Massive dark green andesite dyke as above.	604278	61.00-63.00	2.00	0.010
			At 63.13m - 120mm thick quartz vein with coarse pyrite in the core of the vein. Vein is at 80° to C.A.				
			Caved material at 63.09m. finer grained than above. Strong limonite and coarse pyrite coatings on all fractures. Epidote veins 10mm thick at 64.75m at 50° to C.A.	604279	63.00-65.00	2.00	0.020
			Massive dark green andesite dyke as previously described, however, it is now very fine grained. Chill zone? Very intense coarse pyrite mineralization along all fractures, notably 65° to C.A., 5-15° to C.A. and 35-40° to C.A.	604280	65.00-67.20	2.20	0.010
67.20	67.50		<b>FAULT ZONE (Contact With Siliceous Felsic Lapilli Tuff)</b> Clay gouge and silicified tuff fragments.				
			Upper contact 55-60° to C.A. Lower Fault contact 35° to C.A.	604281	67.20-67.50	0.30	<0.005
67.50	69.78	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> Light grey slightly mottled appearance due to ghostly outlines of crystal and lapilli fragments. Intensely micro fractured from 67.50-68.80m at various angles (no dominant set)				
			Light grey intensely bleached and silicified.	604282	67.50-69.00	1.50	0.100
			<b>SILICEOUS FELSIC LAPILLI TUFF.</b> <1% pyrite. Light greenish tinge to rock (chlorite alteration?).	604283	69.00-69.78	0.78	0.640
			At 69.78m - Contacts very fine grained dark greenish grey andesite dyke at 30° to C.A.				
69.78	71.30	521	<b>ANDESITE DYKE</b> - Dark greenish grey, very fine grained equigranular. Coarse pyrite on 1mm quartz veins and silicified fractures. Minor disseminate pyrite, chloritized.				
	?						

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from (m)	to (m)	Code	Description	sample No.	from/to	width h (m)	Au (g/t)
			Core is very broken up and blocky from 70.93m to lower contact at 71.30m Broken core obscures contact so no precise measurement available.	604284	69.78-71.30	1.52	<0.005
71.03	98.70	314	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Very light grey, almost white with slight greenish tinge. <u>very intensely</u> silicified and massive. Lapilli fragments to 1 cm are visible but blend into matrix on margins. Silicification is pervasive with a few contorted white quartz veins blending into matrix colour. Weak to moderate chlorite alteration throughout particularly along fracture and vein margins and lapilli fragment rims. Pyrite content is generally weak being <1% 1 cm quartz vein with pyrite from 73.00-73.36m at 15° to C.A.	604285	71.30-73.00	1.70	0.105
			Quartz veining along with pyrite and sphalerite mineralization increase significantly. Veining is very convoluted with irregular orientations to C.A. From 74.50-75.00m a thick (+30mm) white quartz vein with sphalerite roughly parallels core axis to 74.85m where the vein makes up all of the core.	604286	73.00-73.50	0.50	0.075
				604287	73.50-75.20	1.70	0.595
			Veined section as above continues	604288	75.20-76.00	0.80	0.850
			From 77.40-77.90m - 1-22mm thick quartz veins running approximately parallel to C.A.	604289	76.00-77.00	1.00	0.390
		*	Quartz vein flooded section with diffuse contact well mineralized with Pyrite 1-3%, sphalerite 2% and galena. At least 2 phases of veining are present, one at approx. 35° to C.A.	604290	77.00-78.00	1.00	0.470
				604291	78.00-78.56	0.56	0.460
			Returns to same as from 73.50-78.00m	604292	78.56-80.00	1.44	0.645
		314	Coarse grained <b>FELSIC LAPILLI TUFF</b> continues with less intense silicification. Grey blue quartz veining at 10-15° to C.A. Pyrite veining 1-2mm thick at 55° to C.A. Core loss and blocky core from 80.45-80.80m (approx. 20 cm lost) At 81.11-81.18m - 7 cm thick white quartz vein with pyrite, specks of sphalerite and patchy, secondary biotite. Contorted contact at 35°? to C.A. One patch of fuchsite. From 81.00-82.28m - purplish tinge to unit with increased secondary biotite. Pyrite 1-2%	604293	80.00-82.00	2.00	0.470
			Weakly chlorite and biotite altered siliceous felsic lapilli tuff. Increase in pyrite veining with 1-3mm thick pyritic veinlets at 20-30° to C.A. and 50° to C.A. The 50° to C.A. vein cuts the 20-30° to C.A. veining. Sphalerite? specks at 82.50m.	604294	82.00-82.60	0.60	0.600

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Blocky core with heavy limonite coating on fractures 10-20° to C.A. and 35-50° to C.A. Increase quartz veining with at least 2 stages present. Veinlets at 15-330° to C.A. cut by veins 75-85° to C.A.	604295	82.60-84.00	1.40	0.920
			Same as above from 82.6-87m. From 84.90-85.35m a 1 cm thick quartz vein runs in undulating fashion roughly parallel to C.A. It carries specks of sphalerite along the margins.	604296	84.00-85.70	1.70	1.060
			Fine grained granular crystal or ash tuff unit within the coarse siliceous felsic lapilli tuff. Weakly veined with minor sulfides.	604297	85.70-86.24	0.54	0.135
			Very homogeneous section of well defined <b>SILICEOUS FELSIC LAPILLI TUFF</b> with clear lapilli and crystal fragments to 3-4 cm diameter. Fragments predominantly less than 1 cm diameter. <i>Weak chlorite alteration gives greenish tinge to unit. &lt;1% pyrite confined mainly to veinlets and fractures.</i>	604298	86.24-88.00	1.76	0.360
			From 88-10-88.54m - Fracturing parallel to C.A. is coated with limonite. Blocky core.	604299	88.00-88.72	0.72	0.060
			<b>LAPILLI TUFF</b> unit is more altered with chlorite and brownish secondary biotite. Quartz veining is increased from 89.48-90.0m at approx. 35° to C.A. 3% pyrite, 1-2% sphalerite and rare specks of galena.	604300	88.72-90.00	1.28	0.725
			Returns to homogeneous section of siliceous felsic lapilli tuff as from 86.24-88.77. Lacy network of pyrite veinlets. Minor quartz veining.	604301	90.00-92.00	2.00	0.875
			As above, light grey, siliceous felsic lapilli tuff. Long ghosts of fragments to 5 cm in diameter. Slight fabric to unit caused by close network of fractures and veinlets at 5-15° to C.A. They are cut by a second stage narrow vein set at approximately 30° to C.A. 1% Pyrite	604302	92.00-94.00	2.00	0.475
			As above- From 94.45-94.80m - Quartz veining increases with pyrite and chlorite on vein margins. Minor sphalerite (a few specks) and possibly galena (very small specks) veining is contorted but roughly 40° to C.A.	604303	94.00-96.00	2.00	0.540
			Quartz vein system in siliceous felsic lapilli tuff. Veins are convoluted with general orientations of 35° to C.A. and 60° to C.A.	604304	96.00-96.37	0.37	0.710
			mineralized with pyrite and honey coloured sphalerite.	604305	96.37-97.00	0.63	0.610
			Same as above from 94.00-96.00	604306	97.00-98.70	1.70	0.160

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
98.70	111.25	414	<b>DACITIC ANDESITIC LAPILLI (to Nodular) TUFF</b> - A 2 cm quartz vein at 98.70 with gougy clay material at 43° to C.A. marks a change in the Felsic Tuff. The unit is intensely silicified and quartz veined and shows a <u>coarse</u> fragmental texture. Angular stressed fragments appear to be more breccia fragments in a veined matrix. Vein orientation is highly variable with at least 2 stages clearly visible. Brown secondary biotite alteration is variable in intensity with strong alteration evident from 99.62-100.10m. Chlorite alteration is present throughout along fractures and vein and fragment margins. Locally, fragments >6 cm diameter are common. Pyrite mineralization is increased to 2-5% and up to 8%. Minor fuchite patches.	604307	98.70-100.00	1.30	0.265
			As above. Moderate brown biotite alteration throughout. More intensely pyritized from 100.0 to 100.40m and 100.77-101.00m.	604308	100.00-101.00	1.00	0.365
			As above. Biotite alteration weakens gradually.	604309	101.00-102.00	1.00	0.820
			As above. Very minor biotite, chlorite alteration remains constant at a weak to moderate level.	604310	102.00-103.00	1.00	0.110
			As above but a 25 cm thick pyritized vein system carries approx. 5-8% pyrite and sphalerite. The pyrite is very fine grained for the most part.	604311	103.00-103.34	0.34	0.720
			Darker grey, brecciated appearance. Moderate (2-3%) pyrite content. Minor sphalerite at 104.10. 104.85m - Purplish biotite alteration to 105.20m	604312	103.34-105.00	1.66	0.480
			At 105.45m - Contacts well mineralized quartz vein.	604313	105.00-105.45	0.45	0.640
			Convolutated quartz vein system with orientation approx. 30° to C.A. Coarse pyrite patches and brown sphalerite crystals up to 0.5 cm by 0.8 cm across. Specks of galena?	604314	105.45-105.70	0.25	0.670
			Light purplish tinge to silicified & bleached fragmental tuff unit at 107m. Fragments have rounded ghostly outline as in Nodular Tuff.	604315	105.70-107.00	1.30	0.510
			Intensely silicified and quartz veined. Bleached with alteration envelopes along vein margins. Pyrite and sphalerite in veins at 107.52m & 107.66m. 5% pyrite (coarse) along fractures from 108.50-109m	604316	107.00-109.00	2.00	0.600

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Coarse pyrite filling cavity in quartz vein (2-4 cm thick) running parallel to or 5-10° to C.A. from 110.00-110.63m. Some chlorite alteration but overall light purplish brown tinge due to secondary biotite. Nodular Tuff texture from 110.90-110.05m. At 111.25m sharp contact with dark grey green Andesite Dyke at 50° to C.A.	604317	109.00-110.00	1.00	1.470
				604318	110.00-111.25	1.25	0.170
111.25	111.86	521	<b>ANDESITE DYKE</b> Dark grey green, very fine grained, massive. Very minor pyrite. 1 cm quartz vein at 111.36 at 60° to C.A.	604319	111.25-111.86	0.61	0.020
111.86	113.15	411	<b>DACITIC-ANDESITIC LAPILLI (NODULAR) TUFF</b> - Mottled purplish grey with grey nodules to 1.5 cm diameter. 4 cm thick quartz vein 87° to core axis with MOLYBDENITE along lower margin. 3-5% pyrite in silicified and bleached section of Tuff from 112.54-112.60m.	604320	111.86-113.15	1.29	0.040
113.15	113.63	521	<b>ANDESITE DYKE</b> Dark green grey, massive, very fine grained. Upper contact 40° to C.A., lower contact 30° to C.A. Several fine pyritized fractures.	604321	113.15-113.63	0.48	0.030
113.63	114.15	412	<b>DACITIC-ANDESITIC LAPILLI (NODULAR) TUFF</b> - Light grey greenish tinged, chlorite altered and intensely silicified 1-3% Pyrite in veinlets and rimming fragments. Minor sphalerite? at 113.63m.	604322	113.63-114.15	0.52	0.160
114.15	117.30	412	<b>MAJOR FAULT ZONE IN DACITIC ANDESITIC NODULAR (LAPILLI) TUFF</b> Fault gouge and fragment of Nodular and Fragmental Tuff. Brownish clay rich gouge with pyrite cubes in ground up quartz vein material. Upper fault contact is at 35-40° to C.A. From 114.91-115.94m - Core very rubbly, broken up pieces of Dacitic Andesitic Purplish Lapilli Nodular Tuff - Recovery 65%. Fault zoned possibly roughly parallel to C.A.	604323	114.15-115.00	0.85	0.015
			115.94-117.04m - 3 cm of sand, no recovered core. Hit an open fracture filled with sand?	604324	115.00-116.12	1.12	0.010
			117.04-117/30m approx. - Nodular Tuff contacts dark green andesite dyke. Broken core obscures orientation to C.A. angle	no core	116.13-117.04		
			Quartz veining with pyrite at 40-45° to C.A.	604325	117.04-117.30	0.26	0.050
117.30	119.30	521	<b>ANDESITE DYKE</b> - Dark grey green, very fine grained with slight porphyritic texture with 1-2mm mafic laths or phenocrysts. Very minor pyrite. Strong chlorite alteration along fractures.				



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			From 119.220-119.30m - Fault Zone at contact with Dacitic Andesitic Nodular (Lapilli) Tuff. Clay rich gouge contact at 55-60° to C.A.	604326	117.30-119.30	2.00	0.010
119.30	127.10	412	<b>DACITIC ANDESITIC NODULAR (LAPILLI) TUFF</b> - Dark purplish grey, massive, with grey rounded nodules. Silicified and strong biotite alteration give purplish colour to unit. Weak fracturing and veining at 35° to C.A. Pyritized hairline veinlets & fractures. Pyrite content approximately 1%. Nodules range to 1.5 cm diameter.	604327	119.30-121.00	1.70	0.020
			1 cm wide bleached alteration envelope along pyritized fracture and vein at 30° to C.A. from 121.65-121.81m. A second fracture at 5° to C.A. from 122.10 to 122.33m is silicified and weakly pyritized.	604328	121.00-123.00	2.00	0.055
			Pyritic and clay gouge material from 123.30-123.45m. Grey silicified fragments of tuff incorporated into gouge material. Faulting appears to be at approx. 5° to C.A. The intersection of several low angle to core axis fractures (5-15°) has cause very broken core. Broken core continues to 124.50m.	604329	123.00-125.00	2.00	0.030
			Massive Purplish Nodular Tuff as above <1% pyrite. From 126.91-126.96 a 4.5 cm vuggy quartz vein with crystal termination cuts C.A. at 70°. The vein carries a few coarse crystals of pyrite and molybdenite along its lower contact margin.	604330	125.00-127.10	2.10	0.025
			127.10m: End of Hole (E.O.H.)				

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Diamond Drill Log

DDH#: HS97-04

Northing: 30091N  
 Easting: 31307E  
 Elevation: 827m  
 Azimuth: 050°  
 Inclination: -57°  
 Grid: Aranlee  
 Length (m): 163.68m  
 Core size: NQ-2  
 Contractor: F. Boisvenu  
 Drill Type: Boyles 37

Drill Hole survey		
Method:	<u>Acid</u>	
Azimuth	Dip	Depth
050	-57°	0
		81.38
050		163.68

Property: Hotspring  
 NTS: 92G9+16  
 Claim: Hotspring 7  
 Date Started: Sept19/97 8:00p.m.  
 Date Completed: Sept22/97 12:20p.m.  
 Logged by: W. B. Lennan & J. T. Shearer

Purpose:

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.05	9	<b>CASING/OVERBURDEN</b>				
3.05	3.55	511	<b>ANDESITE DYKE</b> - Blocky rubble at start of hole. Massive dark greenish black, minor disseminated pyrite. Contact with Siliceous Felsic Lapilli Tuff estimated at 3.55m. No orientation available.	604331	3.05-3.55	0.50	<0.005
3.55	22.05	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light blue grey coloured with creamy white angular lapilli fragments to 1 cm diameter. Lost core from 3.66-4.0m 10-15% recovery from 8-9m 85° recovery 10.30-11.10 30% recovery.				
			Pyritic fracture from 4.30-4.60m running roughly parallel to C.A. ≈5° approx. 2mm thick.	604332	3.55-5.00	1.45	0.265
			Homogeneous light blue grey lapilli tuff with 2 pyritic quartz veins at 5.17m and 5.21m <1 cm thick at 25° to C.A. Crystalline pyrite in veins.	604333	5.00-6.00	1.00	0.115
			As above, no significant veining. Argillic altered lapilli and feldspar phenocrysts give a porphyritic texture to unit.	604334	6.00-7.00	1.00	0.085
			As above but brownish rust colour persists along fractures 30° to C.A. and 40° to C.A. causing rusted envelopes along fractures.	604335	7.00-8.00	1.00	0.120
			Core is very broken and blocky. Strong limonite staining. Unit is more pervasively silicified giving a white colour to the core. Slight increase in quartz veining with pyrite. Veins tend to be convoluted with no clear orientation. Broadly veining is at 15-25° to C.A. and 60-65° to C.A.	604336	8.00-10.00	2.00	0.165
			As from 8-10m - The true position of the 11.0m break is uncertain due to continued, very broken and limonite stained core.	604337	10.00-11.00	1.00	0.060

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			As above but intense quartz veining. Textures in matrix indistinct. Veining is strongest from 11.40-11.84m. Brecciation with quartz vein matrix is observed. A 6 cm vein from 11.44-11.449m cuts C.A. at 65°. The vein is mineralized with both coarse and dusty grain sized pyrite. Sphalerite? if present is very fine grained. Veining has decreased in intensity but pervasive silicification gives a cream colour to unit and original textures are obliterated. May be a fine grained version of the normally coarse grained tuff.	604338	11.00-12.00	1.00	0.335
			Approx. 30 cm thick, dark grey quartz vein with dusty pyrite. Upper and lower contacts at 30-35° to C.A.	604339	12.00-13.00	1.00	0.210
			Same as 12.0-113.0m - White bleach and silicified section. Significantly more fine pyritized fractures and hairline veinlets than 12.0-13.0m section. Alteration envelopes occur along some veins. Limonite staining along the fine fractures lend a lacy rust brown network to core.	604340	13.00-13.35	0.35	0.620
			Quartz vein within tuff. Main vein is from 14.00-14.14m with coarse pyrite and a vuggy texture along both contacts. Upper contact ≈80° to C.A. Lower contact is 60° to C.A.	604341	13.37-14.00	0.65	0.305
			Same rusted and silicified as from 13.35-14.00m	604342	14.00-14.33	0.33	0.445
			Light grey silicified Felsic Lapilli Tuff. Fragments are observed as "ghost" outlines. Pervasive silicification. Well pyritized vein (7-10%) at 15.47m at 60° to C.A. White quartz veined section with intense limonite rusting on fractures 30° and 85° to C.A. from 15.65 to 16.40m. Shearing 16.5m at 35° to C.A. From 16.80-17.00m the Lapilli texture becomes clearly visible again.	604343	14.33-15.00	0.67	0.050
			As above. Pyritic quartz veining from 17.60-17.70m at 75° to C.A. carries dust sized pyrite and possibly sphalerite. 0.5 cm coarse grained pyrite vein at 18.36m at 85° to C.A.	604344	15.00-17.00	2.00	0.320
			Highly fractured and broken quartz vein core from 19.20-19.85m. Strong limonite alteration along all fractures. Gougy material in vein at 1985m indicates a small shear?	604345	17.00-19.00	2.00	0.060
			Rusty white to dark grey quartz veining with 5-8% pyrite and strong epidote alteration in veins.	604346	19.00-19.85	0.85	0.105
				604347	19.85-20.42	0.57	0.495

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light blue grey showing very coarse fragments up to 4 cm diameter from 20.90-21.60m. Contorted quartz veining with 1-2% pyrite. Several 3-6 cm wide altered or bleached envelopes along fractures with lacy network of rusty (limonite stained) hairline fractures. The reddish brown limonite contrasts sharply against the white bleached alteration envelopes. Dominant fracturing 45-50° to C.A.	604348	20.42-22.05	1.63	0.265
22.05	22.11		<b>FAULT GOUGE ALONG CONTACT WITH ANDESITE DYKE</b>				
22.11	23.95?	521	<b>ANDESITE DYKE</b> - Massive, dark green, very fine grained. Upper contact fault zone at 35-40° to C.A. Lower contact estimated at 23.95m. Core is very broken and exact contact position of Fault uncertain. Pyrite, both fine and coarse grained is primarily confined to hairline fractures and silicified veinlets. Core is broken due to fracturing at 5-15° to C.A. intersecting fractures at various angles to C.A.	604349	22.05-23.95	1.90	0.010
23.95	31.82	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Massive light blue grey with coarse lapilli fragments to 3 cm diameter. Fragments are a slightly lighter creamy colour compared to the greyer siliceous matrix. Quartz veining is <u>not</u> intense and silicification is a more pervasive flooding. Limonite rusting on fractures primarily at 30-35° to C.A. and 60-75° to C.A.				
			As above	604350	23.95-26.00	2.05	0.035
			As above - shearing from 27.95-28.0m at 25° to C.A.	604351	26.00-28.00	2.00	0.280
			Light grey lapilli tuff cont. - Bull quartz vein 2.5 cm thick with molybdenite mineralization. Vein is 30° to C.A. and goes from 29.02-29.20	604352	28.00-30.00	2.00	0.085
			As above with ≈1% disseminated and fracture controlled pyrite mineralization. At 31.82 - Contacts ANDESITE DYKE at 60° to C.A. Sheared? Contact with minor clay gouge.				
31.82	38.78	521	<b>ANDESITE DYKE</b> - Dark grey green to black, massive with intense chlorite alteration. Ghostly porphyritic textures. Strongly altered fracture zone from 33.00-33.30m. Some core loss. Some sericite and clay alteration on fracture at 20° to C.A. Minor hairline silicified fractures throughout with pyrite mineralization and 1-2mm bleached alteration envelopes.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			From 86.00-36.27m - 1 cm quartz vein 23° to C.A. with chlorite alteration and bleaching along margins. From 37.97-	604354	31.82-33.00	1.18	0.015
			38.40 core is very broken up and blocky	604355	33.00-35.00	2.00	<0.005
			with losses. Strongly limonitic along	604356	35.00-37.00	2.00	<0.005
			fractures ≈10° to C.A. Lower contact with Siliceous Felsic Lapilli Tuff at 38.78m at 80° to C.A.	604357	37.00-38.78	1.78	<0.005
38.78	47.00	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light creamy grey colour with mottled appearance due to smaller homogeneous lapilli tuff fragments and crystals. Possibly an ash layer in with lapilli. This lends a fabric to the core at approx. 50° to C.A. Weak pyrite mineralization as disseminations and continued around the rims of smaller lapilli and crystal fragments. Broken core with strong limonite from 28.78-44.50m.				
			Small Fault Zone from 43.80-43.90m at 53° to C.A. Very minor quartz veining throughout.	604358	38.78-40.00	1.22	<0.005
			Core is very broken up with fracturing 5-10° to C.A. Pervasive silicification to 43.00m	604359	40.00-42.00	2.00	<0.005
			Massive, fine grained, banded ash + lapilli tuff as described above.	604360	42.00-43.00	1.00	<0.005
			As above, 1.5 cm thick quartz vein from 46.00-46.30m with only minor pyrite mineralization.	604361	43.00-45.00	2.00	<0.005
			Silicification and chlorite alteration increase slightly from 45.45-47.00m lending a slight greenish grey tinge to the rock. Pyrite ≈1%	604362	45.00-47.00	2.00	<0.005
47.00	66.82	314	Progressively more strongly silicified. Lapilli fragments are larger, up to 3 cm diameter. Moderate sericite alteration of lapilli fragment and weak to moderate chlorite alteration. Disseminated pyrite <1% with rare specks of sphalerite at 49m.	604363	47.00-49.00	2.00	<0.005
			As above. 1 cm quartz vein at 50.45-50.60m at 30° to C.A. weak pyrite alteration along vein margins. 1-2% pyrite and sphalerite? specks from 50.60-50.90m	604364	49.00-51.00	2.00	0.010
			As above, increased quartz veining with pyrite 1-2% and sphalerite (<1%) from 51.10-52.00m. Limonite stained envelopes along fractures 15-20° to C.A. from 52.00-52.40m	604365	51.00-53.00	2.00	0.545
			Pervasively silicified darker grey colour with pyritic veining at 60° to C.A. with sphalerite specks.	604366	53.00-53.95	0.95	0.620

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Medium bluish grey Siliceous Felsic Lapilli Tuff as from 53.00-53.95. Rock fabric (alignment of lapilli fragments) at 55-60° to C.A. Felsic fragments are sericitized. Pervasive weak to moderate chlorite alteration.	604367	53.95-56.00	2.05	0.110
			At 54.10m - 4 cm thick white quartz vein 55° to C.A. Sphalerite at 55.52m. Silicification and quartz vein intensity toward 58.00m. Quartz Vein Zone with sphalerite and limonite stained fractures at 40° to C.A. from 56.30-56.60m Moderate chlorite alteration and small patches of epidote.	604368	56.00-58.00	2.00	0.460
			Dark grey greenish intensely silicified and veined. Felsic Lapilli Tuff. Most veins at 40-50° to C.A. and a lesser number at 30° to C.A. Pyrite and sphalerite mainly at 58.47-58.63m	604369	58.00-59.00	1.00	0.260
			As above. Strong veining from 59.15-59.50m with pyrite and fine grained sphalerite on vein margins. 2 stages of veining evident, 45° to C.A. is cut by 70° to C.A. veining.	604370	59.00-60.00	1.00	0.920
			Silicification and veining decrease significantly. Moderate chlorite and sericite alteration throughout. Pyrite is disseminated throughout and also along vein margins (<1%).	604371	60.00-62.00	2.00	0.195
			As above.	604372	62.00-64.00	2.00	0.175
			Small section of increased quartz veining with pyrite and sphalerite. The vein runs from 64.20 to 64.60 at 10-15° to C.A.	604373	64.00-65.00	1.00	0.185
			Whitish grey pervasively silicified. Fragments blend into matrix. Minor vein, chlorite and sericite alteration.	604374	65.00-66.82	1.82	0.060
66.82	67.90	521	At 66.82m contact with Andesite Dyke at 75-80° to C.A. Core very broken up. <b>ANDESITE DYKE</b> - Grey black to dark greenish grey, very fine grained, massive unit. Laced with microfractures at 50-60° to C.A. and 70-80° to C.A. Pyrite coatings on some fractures.				
67.06	67.17		<b>FAULT ZONE</b> - from 67.06-67.17m within andesite dyke. Grey clay gouge with pyrite on margins. Fault is approx. 85-88° to C.A. A smaller fault structure is at 67.54m at 60-70° to C.A. Lower contact is sharp at 67.90m at 65-70° to C.A.	604375	66.82-67.90	1.08	0.030
67.90	68.70	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Very broken up, blocky core of this unit. It is bleached to almost white but features obscured by black coatings on low angle fractures.	604376	67.90-68.70	0.80	0.285

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Because of broken core, no orientation of contact with lower andesite dyke could be measured.				
68.70	69.00	521	<b>ANDESITE DYKE</b> - Broken up core and rotted rock material. Block very finely grained andesitic dyke. Lower contact at 69.00m with Siliceous Felsic lapilli tuff is at 65° to C.A.	604377	68.70-69.00	0.30	0.080
69.00	69.72	314	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - As from 67.90-68.70m. Contact with Andesite Dyke is approximately at 69.72m.	604378	69.00-69.72	0.72	0.255
69.72	70.80	522	<b>ANDESITE DYKE</b> - Dark greenish grey to black - small dyke. Fine grained with slight porphyritic texture. Moderate pyrite mineralization (1-2%) as coatings on fractures. Very broken core with fracturing 20-25° to C.A. Significant core loss. 65% recovery. Lower contact with Siliceous Felsic Tuff at 30° to C.A.	604379	69.72-70.80	1.08	0.130
70.80	72.24	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Creamy grey white with relict "porphyritic" textures due to clay alteration of crystal and lapilli fragments. <1% pyrite. At 72.24m approximately (broken core) a pyritized Fault Zone with gouge and quartz veining cuts C.A. at 40°. This fault zone and crushed rock extends from 72.24-72.55m.	604380	70.80-72.24	1.44	0.100
72.24	72.55	--	Fault Zone	604381	72.24-72.55	0.31	0.010
72.55	73.22	521	<b>ANDESITE DYKE</b> - Dark charcoal grey with hairline pyritic silicified fractures 65° to C.A. At 73.00m - some crushing due to shearing at 45° to C.A. Bleached envelopes along hairline silicified & pyritized fractures.	604382	72.55-73.22	0.67	0.015
73.22	75.60	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Medium blue grey with coarse ghost outlines of lapilli fragments. Moderate chlorite alteration along quartz vein and fracture margins. Pyrite is disseminated and is mainly found as fracture coatings and on veinlet margins. Invasive limonite staining along low angle 5-10° to C.A. fractures. From 75.33-75.60m purplish tinge to rock due to biotite alteration. At 75.60m contact with Pyritic Andesite Dyke at 87-90° to C.A.	604383	73.22-75.60	2.38	0.090
75.60	77.20	521	<b>ANDESITE DYKE</b> - Massive greenish dark charcoal grey with minor pyrite. Lower contact 80° to C.A.	604384	75.60-77.20	1.60	0.015
77.20	83.08	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light bluish grey, pervasively silicified. Chlorite alteration and patchy secondary biotite.	604385	77.20-79.00	1.80	0.015

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Pervasive silicification diminishes slightly from 80.0-81.0m. Approx. 1% pyrite as disseminations and along fractures.	604386	79.00-81.00	2.00	0.045
			Very homogeneous section of Siliceous Felsic Lapilli Tuff. Minor veining and fracturing. Purplish secondary biotite from 81.90-82.40m. At 83.08, contact with narrow andesite dyke at approx. 75° to C.A. Pyritic contact zone.	604387	81.00-83.08	2.08	<0.005
83.08	83.36	521	<b>ANDESITE DYKE</b> - Dark greenish charcoal grey, very fine grained, massive. Pyrite coating on fractures. Clay rich contact at 83.36m at 85° to C.A.	604388	83.08-83.36	0.28	0.020
83.36	93.00	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light bluish grey with obscure fragment boundaries. Pervasive silicification with chlorite alteration along fracture, vein margins and lapilli fragment rims. Veining is not intense but cuts C.A. at 30-40°. 1-2% pyrite along vein margins. Specks of sphalerite? at 84.95m.	604389	83.36-85.00	1.64	0.020
			Limonite coated fractures at 30° and 75° to C.A. between 86.9m and 87.0m.	604390	85.00-87.00	2.00	0.010
			As above but purplish coloured biotite altered quartz veined sections at 87.8m at 40-45° to C.A. and from 88.33-89.40m	604391	87.00-89.00	2.00	0.005
			Biotite alteration weakens and light greenish tinge returns with chlorite alteration. Fragments are only ghostly outlines. Minor veining. Fracturing primarily 30° to C.A. and 55-65° to C.A.	604392	89.00-91.00	2.00	<0.005
				604393	91.00-93.00	2.00	<0.005
93.00	97.04	313	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - as above but quartz veining and pyrite mineralization; have increased. Fragments are cloudy ghost-like features in a siliceous matrix of the same colour. Moderate chlorite alteration lends a greenish tinge to the unit. 1mm to 10mm quartz veins carrying coarse and fine grained pyrite are more frequent with an orientation of 35-40° to C.A. At 96.06m a 10mm thick vein is 80% coarse pyrite.	604394	93.00-95.00	2.00	<0.005
				604395	95.00-96.00	1.00	<0.005
				604396	96.00-97.04	1.04	<0.005
97.04	104.16	712	<b>PALE GREEN TUFF</b> - Very siliceous and very fine grained pale creamy green coloured. Thin quartz veins (1mm - 5mm thick) continue from the above described lapilli tuff into this unit. Pyrite content is disseminated and along fracture and veinlets. The veins have 1mm to 7mm wide bleached silicified alteration envelopes parallel to the vein margins.				



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Limonite staining permeates into the rock along fractures to leave rusty brown wide envelopes.				
			As described above.	604397	97.04-98.00	0.96	0.005
			Very broken core with 18 cm loss from 94.67-100.28m.	604398	98.00-100.00	2.00	<0.005
			Pale green tuff is very consistently veined with quartz and pyrite as noted above.	604399	100.00-102.00	2.00	<0.005
			Occasional porphyritic appearance with altered feldspar fragments.	604400	102.00-104.00	2.00	<0.005
104.16	104.46		<b>FAULT ZONE</b> in Pale Green Tuff. Broken core and some gouge. Black staining on fracture surfaces. Fault at 50° to C.A.				
104.46	105.20	712	<b>PALE GREEN TUFF</b> - as described above. Contact with light grey siliceous Felsic Tuff at 105.20m at 15-20° to C.A.	604401	104.00-105.20	1.20	<0.005
105.20	110.25	314	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Intensely quartz veined light bluish grey section of lapilli tuff. When not obscured by quartz vein flooding, lapilli fragments are sericitized and chlorite altered.				
			As above at 105.80 - 5 cm thick quartz vein with coarse pyrite and fine specks of sphalerite and biotite along vein margins. Pyritic vein 50° to C.A.	604402	105.20-107.00	1.80	0.535
			At 106.18m a 3 cm thick quartz vein cuts C.A. at approx. 15°. Very contorted, minor sphalerite.				
			Felsic tuff unit with much less veining than above.	604403	107.00-107.70	0.70	0.330
			Intensely silicified with bluish grey quartz veins with coarse and dusty grained pyrite and fine specks of sphalerite. Veins appear to run roughly parallel to C.A. Contacts are very irregular. Estimated angle to C.A. = 10-20°.	604404	107.70-109.20	1.50	0.555
			Large quartz vein system over most of this interval. It appears that two phases of 2 larger veins have intersected each other. The convoluted nature of contacts suggest that a major vein + 100mm thick at 15-20° to C.A. extends from 109.30-109.80m and intersects a 35-40° to C.A. vein from 109.80-109.90m. Pyrite, secondary biotite and very fine grained sphalerite? are found in this vein system.	604405	109.20-110.25	1.05	1.385
110.25	115.00	312	<b>SILICEOUS FELSIC TUFF</b> - as above but veining diminishes to a lacy network of narrow (1-3mm wide) veinlets.	604406	110.25-112.00	1.75	0.125
			As above, however, quartz veining is increasing from 113.0-114.0m.	604407	112.00-114.00	2.00	0.595

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			From 114.07-114.30m - A 1.5 cm thick quartz vein with pyrite, biotite and sphalerite undulate across core averaging 8° to C.A. a second mineralized 1.5 cm thick vein cuts core at 30° to C.A. from 114.6-116.75m.	604408	114.00-115.00	1.00	0.510
115.00	116.80	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - continues. Quartz veining and pyrite mineralization diminishes.	604409	115.00-117.00	2.00	0.345
116.50	116.80		<b>FAULT ZONE</b> - Rusty, flaky & rotted Lapilli Tuff of above unit 20-25° to C.A.				
116.80	117.60	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - as noted from 115.0-116.80m.	604410	117.00-117.60	0.60	0.470
117.60	134.10	314	Intensely silicified and quartz veined section. Moderate pyrite (2-3%) and sphalerite along vein margins. A large vein roughly parallels the C.A. at approx. 5-10° to C.A. in an undulating fashion from 118.0-119.08m. Speckles of brown secondary biotite in vein.	604411	117.60-118.08	1.48	1.135
			Silicified Felsic Tuff as above but veins are smaller and form along network with 2 phases of veining. a low angle (10-15° to C.A.) and higher angle veins (40-70° to C.A.).	604412	119.08-121.00	1.92	0.205
			Same as from 199.08-121.00m. Abundant pyrite in veins and fractures and around lapilli fragments. (2-3%)	604413	121.00-123.00	2.00	0.145
			Continued as above. Weak to moderate chlorite alteration. Patches of minor fuchite. Crystalline pyrite in a 0.5 cm thick quartz vein at 10° to C.A. from 123.10-123.25m.	604414	123.00-124.00	1.00	0.175
			Large, well mineralized vein system from 124.25-124.80m. 1% sphalerite and 2-3% pyrite. Core very broken up from 124.5-124.8m. Vein cuts C.A. at 25°.	604415	124.00-125.00	1.00	1.135
			A second large quartz vein system with 1-3% pyrite and 1% sphalerite extends from 125.36-126.0m at 25° to C.A. but undulates down core length as if roughly parallel to axis.	604416	125.00-126.00	1.00	0.765
			Quartz veining continues in Siliceous Felsic lapilli Tuff with a large convoluted vein from 126.35-126.85m. Orientation to C.A. is approx. 15-25° to C.A.	604417	126.00-127.00	1.00	0.270
			Large veins diminish. Large fragments to 5 cm diameter are grey brown in colour and appear to be altered with secondary biotite. Quartz veins are generally <1cm thick and are convoluted and of no particular orientation to C.A. Pyrite mineralization is moderate (1-3%)	604418	127.00-129.00	2.00	0.200

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Larger quartz veins with pyrite and sphalerite mineralization increase again. Strong pyrite mineralization (8%) from 129.10-129.25m. Quartz veining dominates core from 129.60-130.0m.	604419	129.00-130.00	1.00	0.300
			Same as from 129.0-130.0m with pyrite and sphalerite.	604420	130.00-131.00	1.00	0.520
			As above but from 132.02-133.30m - purplish brown biotite alteration becomes more intense. Quartz vein acts as a matrix around angular fragments. Pyrite and sphalerite mineralization decrease significantly. Pyrite ≈ 1%.	604421	131.00-133.00	2.00	0.945
			As above with a decrease in biotite alteration.	604422	133.00-134.10	1.10	0.345
134.10	138.16	521	<b>PORPHYRITIC ANDESITE DYKE -</b> Sheared contact with above noted Lapilli Tuff. Upper contact at 75° to C.A. Unit is massive dark green with an intermittent porphyritic texture. Feldspar phenocrysts are small, usually less than 2mm across and have indistinct boundaries. The unit is moderately to strongly magnetic and is chlorite altered. Veining and fracturing is very weak for the most part. Pyrite is mainly confined to fracture planes. Dominant fracturing at 45-60° to C.A.	604423	134.10-136.00	1.90	0.020
			From 1338.16m on the Andesite Dyke becomes non-porphyritic and is a massive, very fine grained dark grey green colour. magnetic and strongly chloritized upper contact with porphyritic variety is at 35° to C.A. Silicified hairline fractures are intensely pyritized.	604424	136.00-138.00	2.00	<0.005
			As above, but from 140.33-140.63m a barren, vuggy white quartz vein (crystal terminations) cuts core axis at 15°.	604425	138.00-140.00	2.00	<0.005
			Contact varies from parallel to 20° to core axis. Vein is unmineralized and is 4 cm thick. 141.40-141.60 gougy shear 10° to C.A.	604426	140.00-142.00	2.00	<0.005
138.16	143.84	521	Grades to a porphyritic texture again at 143.84m.	604427	138.00-140.00	2.00	<0.005
			Porphyritic Andesite Dyke contacts Silicified Felsic Lapilli Tuff along a fault at 144.73m at 70° to C.A.	604428	140.00-142.00	2.00	<0.005
			144.73m at 70° to C.A.	604428	144.00-144.73	0.73	<0.005
143.84	144.73	521	<b>FAULT ZONE</b> with grey clay gouge at 70° to C.A.				
144.73	144.79						
144.79	156.00	314	<b>SILICIFIED FELSIC LAPILLI TUFF -</b> Medium grey to purplish grey lapilli (fragmental) tuff. Fragments are obscured by pervasive grey coloured silicification of matrix and dusty pyritic mineralization. Purplish colour is intermittent and reflects areas of secondary biotite alteration.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Biotite altered section of unit. Minor veining and 1-2% pyrite.	604429	144.73-145.70	0.97	0.150
			Strongly silicified and veined section. Biotite is mostly bleached out. Veining is very convoluted. Patchy chlorite alteration and moderate (3-5%) pyrite and sphalerite mineralization from 146.60-146.8m.	604430	145.70-147.00	1.30	0.600
			Medium cream grey, intensely silicified section with moderate to abundant (3-55%) pyrite mineralization. Small 1-3mm veinlets at 50-60° to C.A. carry most of the mineralization.	604431	147.00-149.00	2.00	0.620
			As above. Chlorite alteration stronger on fracture surfaces and veinlet margins. Fragments are outlined by chlorite and fine grained pyrite.	604432	149.00-150.62	1.62	0.290
			Quartz veining intensifies with one vein parallel to C.A. from 150.62-151.0m with pyrite and sphalerite on vein margins. Pervasive convoluted veining from 151.0-152.0m. From 151.76-152.0m pyrite mineralization is intense with coarse and fine grained pyrite throughout veins. Specks of sphalerite are scattered throughout veinlets.	604433	150.62-152.00	1.38	2.500
			Intense convoluted quartz veining continues.	604434	152.00-153.00	1.00	0.550
			The veining intensity diminishes significantly with 2% pyrite along hairline fractures and veinlets and fragments. Sphalerite occurs in a 1 cm thick quartz vein at 50° to C.A. at 153.95m.	604435	153.00-154.00	1.00	0.210
			Homogeneous grey, almost featureless Felsic Lapilli Tuff. Very minor veining. Coarse pyrite on fractures and along veinlets and lapilli fragments. At 156.0m gradational? contact with Dacitic-Andesitic lapilli (Nodular) Tuff at 45°? to C.A.	604436	154.00-156.00	2.00	0.415
156.00	161.77	412	<b>DACITIC-ANDESITIC LAPILLI (NODULAR) TUFF</b> - Dark purplish grey mottled appearance due to light grey nodular to 2 cm diameter set in a purplish biotite rich matrix. Pyrite content ranges from 1-3% disseminated throughout unit, as rims around nodules and along veinlets and hairline fractures. Areas of increased silicification cause the biotite to be bleached out of the matrix.				
			Small shear at 156.95m at 35° to C.A.	604437	156.00-158.00	2.00	0.050
			Nodular Tuff as above. Greyish silicified section from 158.8-159.15m. Biotite is mostly removed. 2-3% pyrite along veinlets at 65° to C.A.	604438	158.00-160.00	2.00	0.040

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Purplish grey Nodular Tuff continues. Minor quartz veining at 160.8m at 50° to C.A. Some slickensides along vein margin. At 161.77m unit contacts an Andesite Dyke at 55° to C.A. This contact zone is fine grained purplish coloured with biotite in matrix.	604439	160.00-161.77	1.77	0.020
161.77	162.52	521	<b>ANDESITE DYKE</b> - A small very fine grained dark greenish charcoal grey with white hairline veinlets cutting core axis at an average 75-80°.	604440	161.77-162.52	0.75	<0.005
162.52	162.80	412	<b>DACITIC-ANDESITIC LAPILLI (NODULAR) TUFF</b> - Fine grained section with minor nodules present. Dark purplish grey 2 cm clay rich fault gouge at 162.8-162.82m at 60° to C.A.				
162.80	162.82		<b>FAULT ZONE</b> (small) at 60° to C.A.				
162.82	163.68	412	<b>DACITIC-ANDESITIC LAPILLI (NODULAR) TUFF</b> - Purplish to lighter grey as core is very broken. Bleaching due to silicification from approx. 163.45m to end of hole. Pyrite and some sericite on fracture planes along with chlorite alteration. 163.68m: End of Hole (E.O.H.)	604441	162.52-163.68	1.16	<0.005



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Very brittle cross fracturing in pervasively silicified section from 11.30-11.80m	604448	11.00-13.00	2.00	0.120
			Quartz veining with pyrite and sphalerite at 11.80m. From 11.90m to approx. 12.25m a very fine grained sandy texture brown coloured section occurs. Possible Fault Zone.				
			Argillically altered feldspar crystal fragments lend a pocked porphyritic texture to unit. Pervasively silicified. Contact at 14.12m within fault zone with associated quartz vein at 50° to C.A.	604449	13.00-14.12	1.12	0.040
14.12	14.35		<b>FAULT ZONE</b> - Limonite altered broken flakey felsic tuff material and clay gouge. Lower contact with felsic tuff at 30° to C.A.	604450	14.12-14.35	0.23	0.045
14.35	29.00	314	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light bluish grey as previously described. Porphyritic texture due to altered crystal fragments as from 13.00-14.12m.	604451	14.35-15.35	1.00	0.180
			Intense pervasive silicification and quartz veining. Limonite stained fractures 10-20° to C.A. from 16.40-16.90m. Pyrite and sphalerite along veins at 16.30m at 45° to C.A. Mineralized veining (contorted) at 15.44m.	604452	15.35-17.00	1.65	0.200
			Minor veining but pervasive silicification. Quartz (blue grey) veining with pyrite and sphalerite mineralization increase significantly. Limonite staining on weathered fracture mainly 45° to C.A. Veins are convoluted. Well mineralized quartz vein at 19.15m at 45° to C.A. As from 19.00-20.00m.	604453	17.00-19.00	2.00	0.150
			Sphalerite at 22.77m - 1 cm quartz vein at 55° to C.A. Very homogeneous light bluish grey lapilli tuff. Veining is diminished from section above but remains pervasively silicified and weakly chlorite altered fragment rims are at times partially assimilated into the quartz rich matrix. Minor fracturing 10-20° to C.A. and 45-50° to C.A.	604454	19.00-20.00	1.00	0.210
			As above.	604455	20.00-21.00	1.00	0.080
			Fracturing at 50° to C.A. and 30° to C.A. is a quartz flooded zone has a light brown colour due to permeation of limonite staining. Chlorite alteration along fracture and fragments. 1% pyrite mineralization as dissemination and along fractures and around fragments.	604456	21.00-22.00	1.00	0.130
				604457	22.00-23.00	1.00	0.120
				604458	23.00-25.00	2.00	0.065
				604459	25.00-27.00	2.00	0.160
				604460	27.00-29.00	2.00	0.125
29.00	37.00	311	As above from 29.0-29.4m - Heavy limonite coating on major fracturing system at 5-10° to C.A. and 30° to C.A. Possible shear zone.	604461	29.00-31.00	2.00	0.040

# MOUNT HOPE RESOURCES CORPORATION

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Light glue grey silicified felsic lapilli tuff. Very coarse grained with fragments to 3 cm diameter. Light greenish tinge to fragments due to weak to moderate pervasive chlorite alteration of matrix material around fragments and along fractures etc. Pyrite is weak, generally <1%. Crystal fragments are white and soft, due to argillic alteration. Limonite coats fractures at 34.0m. Fracturing is not well developed. Increased quartz flooding from 34.80-35.10m. sphalerite? at 34.80m.	604462	31.00-33.00	2.00	0.075
			Very Massive homogeneous pervasively silicified felsic lapilli tuff continues weakly fractured and mineralized.	604463	33.00-35.00	2.00	0.085
37.00	42.37	312	As above with increasing sulfide content and quartz veining. From 37.05m to 37.80m a 3mm thick quartz vein with coarse pyrite runs roughly parallel to C.A. (2-4°d to C.A.) From 38.0-38.23m a second pyritized quartz vein similar to the above noted one arcs along core axis at 20° to C.A.	604465	37.00-39.00	2.00	0.045
			As above but no veining.	604466	39.00-40.00	1.00	0.030
			Moderately veined lapilli tuff section with increased pyrite (2-3%) and quartz veining. From 40.30-40.35m vein carries pyrite and very fine grained sphalerite. Chlorite alteration is also more intense.	604467	40.00-41.00	1.00	0.800
			Quartz veining and mineralization diminish from 40.0-41.0m. At 42.37 Fault contact with Andesite dyke at 30°d to C.A.	604468	41.00-42.37	1.37	0.015
42.37	43.00		<b>FAULT ZONE</b> - Intensely altered Andesite Dyke is soft and clay-like. Very rusty. At 43.0m contacts Andesite Dyke at 40° to C.A.	604469	42.37-43.00	0.63	<0.005
43.00	44.64	522	<b>ANDESITE DYKE</b> - Very fine grained greenish black, weakly magnetic and moderate pyrite (2-3%) on fracture planes. Shearing in the vicinity of 43.50-43.65m. Broken core with clay on fracture faces. At 44.64m contacts felsic lapilli tuff at 42° to C.A.	604470	43.00-44.64	1.64	<0.005
44.64	46.60	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> Darker grey greenish with chlorite alteration. Minor veining and <1% pyrite. At 46.60m - contacts a purplish section of Nodular Tuff at 50° to C.A.	604471	44.64-46.60	1.96	<0.005
46.60	47.10	411	<b>DACITIC-ANDESITIC LAPILLI (NODULAR) TUFF</b> - Purplish brown, mottled, very small section appears similar to previously intersected Nodular Tuffs. At 47.00m - nodular texture disappears and purplish biotite alteration blends into pervasive grey coloured alteration of Felsic Tuffs.	604472	46.60-47.10	0.50	<0.005



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
47.10	49.15	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Medium grey coarse grained with lapilli fragments to 2 cm diameter. Silicification is pervasive with 1-2% pyrite on fracture planes and around lapilli fragments. Chlorite alteration is moderate and occurs along fractures and as rims around some lapilli fragments. Small shear zone at 25° to C.A. from 47.74-47.85m. Ground up rock and rusty clay material.	604473	47.10-49.15	2.05	0.040
49.15	49.40		<b>FAULT ZONE</b> - Dark reddish brown granulated rock with clay and limonite. Some pyrite crystals. Upper contact 75° to C.A. Lower contact at 20° to C.A.	604474	49.15-49.40	0.25	0.015
49.40	48.44	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Same unit as described from 47.10-49.15m. Coarse grained Siliceous Felsic Lapilli Tuff. Medium grey with pervasive silicification and chlorite alteration. Pyrite throughout 0.5% to 2%. As above, fragment size becomes progressively larger. Crowded fragments to 2 cm diameter common with some ranging to 4 cm diameter. Minor veining or fracturing.	604475	49.40-51.00	1.60	0.310
				604476	51.00-53.00	2.00	0.075
				604477	53.00-55.00	2.00	0.500
				604478	55.00-57.00	2.00	0.195
			Siliceous felsic lapilli tuff contacts fine grained Andesite Tuff at 58.44 at 40° to C.A.	604479	57.00-58.44	1.44	0.180
58.44	76.60	821	<b>ANDESITE TUFFS</b> - Fine to medium grained, equigranular for the most part. Medium greenish grey massive unit. Has a slight porphyritic appearance but are feldspar tuffaceous fragments. Approx. 5% mafic crystal fragments which are usually obscure but do show up as distinct fragments in various sections of core. The unit is moderately magnetic. Chlorite alteration is pervasive but is exposed mainly on fracture planes and along quartz vein margins. Fracturing and veining is very weak. Coarse pyrite crystals on silicified fracture at 58.82-58.92m. Pyritized and chloritized vuggy 1 cm quartz vein at 60.10m at 90° to C.A. A 1.5cm silicified envelope on either side of the small vein has bleached the tuff unit. Very massive for the most part. Epidote on fracture 25-330° to C.A. from 60.0-66.02m. Small silicified fractures 75-85° to C.A. have mottled white alteration envelopes along the margins which extend up to 1 cm away from the fracture.	604480	58.44-60.00	1.56	0.005
				604481	60.00-62.00	2.00	<0.005
				604482	62.00-64.00	2.00	<0.005
				604483	64.00-66.00	2.00	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Pyrite is found on all fractures although fracturing and veining are not numerous. Chlorite alteration is intense along the fractures and veinlets.				
			A 2.5 cm thick quartz vein cuts core axis at approx. 20° to C.A. and a 2.5 cm wide silicified fracture at 67.40m cuts C.A. at 35°. Minor epidote occurs on this silicified fracture.	604484	66.00-68.00	2.00	<0.005
			Massive Andesitic Tuff ;unit continues without change. Very uniform fine to medium grained texture with minor veining.	604485	68.00-70.00	2.00	<0.005
			At 71.11m and 17.19m, two 2 cm wide quartz veins cut C.A. at 78° and 65° respectively. Pyrite and strong chlorite alteration are found in the cores and along the margins of the veins.	604486	70.00-72.00	2.00	<0.005
			As above from 72.80-74.0m. Larger mafic fragments to 1 cm diameter occur as dark phenocryst-like features, however, crystal boundaries are diffuse.	604487	72.00-74.00	2.00	<0.005
			Andesite Tuff as above becoming more fractured at 5-15° to C.A. from 74.82-75.0m. Moderate chlorite alteration and pyrite mineralization along fractures. Quartz carbonate veining.	604488	74.00-76.00	2.00	0.010
			Fracturing roughly parallel to core axis continues with 0.5 cm quartz carbonate veining 5-10° to C.A. to 76.3m. Lower contact with Siliceous Felsic Lapilli Tuff at 76.6m at 40°d to C.A.	604489	76.00-76.60	0.60	<0.005
76.60	83.38	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light bluish grey, fine to coarse sized lapilli fragments to 2 cm diameter. Pervasive silicification lends a very homogeneous appearance to unit. Weak Chlorite alteration around fragments and along pyritic fractures.				
			Patchy purplish secondary biotite alteration from 76.60-76.80m.	604490	76.60-78.00	1.40	0.010
			3mm pyritic silicified fractures at 49.77 at 30° to C.A.	604491	78.00-80.00	2.00	<0.005
			Fine grained section with fabric of unit oriented to 70° to C.A. Stronger chlorite alteration.	604492	80.00-82.00	2.00	<0.005
			1-3mm coarse pyrite in quartz veinlet at 82.40-82.44m. At 83.38m unit contacts fined grained Andesite Tuff at 40° to C.A. Coarse pyrite on contact.	604493	82.00-83.38	1.38	<0.005
83.38	84.75	822	<b>ANDESITE TUFF</b> - Dark green, charcoal grey, very fine grained massive unit. Coarse pyrite coatings on fracture planes. Strongly chloritized. Lower contact with Siliceous Felsic Lapilli Tuff at 84.75m at 40° to C.A.	604494	83.38-84.75	1.37	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
84.75	99.00	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light greenish grey, strongly silicified, medium grained tuff. Moderate to strong chlorite alteration. Minor veining and weak to moderate pyrite mineralization (0.5-1.5%).				
			As above, very homogeneous section. From 85.50-86.1m - limonite stained fractures run parallel to or 5° to C.A.	604495	84.75-86.00	1.25	<0.005
			As above, moderate to strong chlorite alteration along microfractures and fragments. A 1mm pyritic quartz vein runs along core axis from 86.0-86.55m at 3-5° to C.A. At 86.88m a white, 3 cm thick quartz vein cuts C.A. at 85°.	604496	86.00-88.00	2.00	<0.005
			Continuing as above. From 88.0-88.0m fracturing from 5-20° to C.A. along entire section have resulted in blocky core. Black MnO and reddish limonite staining coat all fractures. From 89.11-89.17m a 6 cm thick white unmineralized quartz vein cuts C.A. at 70°.	604497	88.00-90.00	2.00	<0.005
			As above, fracturing diminishes with very minor veining, mottled appearance due to chlorite alteration lends a banded fabric to unit at 50° to C.A.	604498	90.00-92.00	2.00	<0.005
			Small 0.5cm thick barren quartz vein at 93.98m at 45° to C.A.	604499	92.00-94.00	2.00	<0.005
			Homogeneous, silicified felsic tuff continues. From 95.5 to 95.87m a pyritic veinlet (2mm thick) runs along core axis at 3°-5°. Strong chlorite rich knot in vuggy fractured section of veinlet at 95.82m.	604500	94.00-96.00	2.00	<0.005
			As above but gradually becoming coarser grained with lapilli fragments to 2 to 3 cm diameter. Pinkish tinge to matrix due to weak secondary biotite and K-spar?	511560	96.00-98.00	2.00	<0.005
			As above	511561	98.00-99.00	1.00	<0.005
99.00	104.50	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b>				
			Same as above but intense pervasive silicification due to quartz flooding. The lapilli fragment boundaries are more obscure blending in with quartz rich matrix. Pyrite has increased slightly primarily along silicified fractures and around the rims of fragments. Weakly veined and fractured.				
			As described above.	511562	99.00-101.00	2.00	0.010
			Quartz flood zone continues with a weak lacy network of pyritic silicified fractures	511563	101.00-103.00	2.00	0.015
			As above but quartz flood zone weakens in intensity. Fracturing from 103.50-103.80m is 20-25° to C.A.	511564	103.00-104.50	1.50	0.205

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			1-2 cm wide quartz vein with pyrite and sphalerite? cut C.A. at 50-65° respectively at 104.04 and 104.11m				
104.50	108.41	314	Biotite chlorite alteration increase along with pyrite and minor sphalerite particularly at 105.20m in a contorted 2-4cm thick quartz vein.	511565	104.50-105.20	0.70	1.310
			Increase quartz veining with weak biotite and chlorite alteration.	511566	105.20-107.00	1.80	0.120
			Fine and coarse grained pyrite along 1-2mm thick veinlets at 20° to C.A.				
			Unit becoming darker grey to light purplish coloured due to secondary biotite.	511567	107.00-108.41	1.41	0.435
			At 108.22m a small silicified fracture carries pyrite, sphalerite and galena specks. At 108.41m contacts Dacitic-Andesitic Lapilli & Nodular Tuff at 35-40° to C.A.				
108.41	115.00	412	<b>DACITIC-ANDESITIC FRAGMENTAL TO NODULAR TUFF</b> - Very coarse grained lapilli to nodular tuff with fragments to 6 cm diameter and nodular to 3 cm diameter. The unit alters from coarse lapilli fragmental textures to nodular form in a gradational manner. No abrupt contacts. The unit varies from medium brownish grey when strongly silicified and bleached to dark purplish grey where a biotite rich matrix is present. Biotite is removed with silicification, leaving a remnant pinkish to brownish grey colour to the unit as mentioned above. Overall unit is well mineralized with pyrite throughout (1-3%). Pyrite occurs as disseminations, fracture coatings, rims around fragments and in quartz veinlets.				
			Intensely silicified and bleached with relict biotite. Chlorite alteration is strong. Unit is well veined with abundant pyrite (5%) veining from 109.00-110.00m is at 5-15° to C.A.	511568	108.41-110.00	1.59	0.040
			As from 108.41 - 110.00m.	511569	110.00-111.00	1.00	0.030
			Dark purplish coloured biotite rich section with Nodular Tuff texture. Heavily pyritized along veins at 10-20° to C.A. from 11.00 to 111.60m.	511570	111.00-113.00	2.00	0.085
			Bleached & silicified grey sections alternate with purplish biotite rich zone.				
			Lacy convoluted quartz veinlets run roughly parallel to core axis ranging up to 15°. At 114.30m a 1 cm thick convoluted quartz vein carries sphalerite.	511571	113.00-115.00	2.00	0.155

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
115.00	118.00	414	Intensely quartz veined and pervasively silicified section. Some chlorite alteration along vein margins. Nodular Texture from 115.60-115.85. Coarse pyrite in quartz vein at 115.4m and pyrite and sphalerite along 1 cm thick quartz vein margins from 115.70-115.85m.	511572	115.00-116.00	1.00	0.275
			More biotite rich purplish zone with lacy network of quartz veinlets running 3-10° to C.A. At 117.75 - brownish sphalerite? in 1 cm thick quartz vein.	511573	116.00-118.00	2.00	0.270
118.00	153.67	412	As above but minor veining until 119.60m where more pervasive silicification partially bleaches unit. Dominant fracturing at 35° and 55° to C.A. Fragments in bleached area become more indistinct as their boundaries blend into matrix	511574	118.00-120.00	2.00	0.195
			Pinkish grey silicified zone continues. A 4 cm thick white quartz vein with molybdenite on the vein margins occurs from 120.14m to 120.18m at 85° to C.A. 2-5% pyrite in veined section from 120.60 to 120.95m. Quartz vein at 121.59m at 40° to C.A. carries fine grained sphalerite.	511575	120.00-122.00	2.00	0.150
			From 122.0m unit is less pervasively silicified and dark purple biotite rich matrix returns. Two phases of quartz veining are indicated at 122.73m. The unit is more chloritized and silicified (bleached) from 123.30 to 124.0m with increased quartz veining. Coarse pyrite occurs on some fractures within veins.	511576	122.00-124.00	2.00	0.370
			Bleaching of purple biotite alteration with increased silicification. Nodular texture is exposed in the more purple biotite rich sections from 124 to 125.10m and from 125.6 to 126.0m.	511577	124.00-126.00	2.00	0.120
			Narrow pyritized vein (3mm) with bleached narrow alteration envelope cuts C.A. at 3-5° and run the length of core from 125.10 to 126.70m	511578	126.00-126.80	0.80	0.010
			Intensely silicified and veined section of Nodular Tuff. From 126.90 to 127.0m a strongly pyritized 8 cm thick quartz vein with fine specks of sphalerite? cuts C.A. at 55°. Narrow veinlets run primarily at 10°-20° to C.A.	511579	126.80-128.00	1.20	
			Same as from 126.80--128.00	511580	128.00-130.00	2.00	0.030
			Uniformly grey coloured, pervasively silicified dacitic-andesitic lapilli (nodular) tuff. Original texture is virtually obscured by silicification. Nodular more biotite rich sections at 131.0-131.10m and 131.25-131.32m.	511581	130.00-132.00	2.00	

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Minor quartz veining. 2-3% pyrite as dissemination's and along hairline fractures.				
			As above - 1 cm thick bluish grey quartz vein at 132.41m at 37° to C.A. carries coarse pyrite and sphalerite.	511582	132.00-133.34	1.34	0.055
			Very intensely silicified by vuggy quartz veining cutting C.A. at 35° Very well mineralized with <u>up to 10% pyrite</u> throughout and minor sphalerite mineralization scattered at random throughout this system but it is quite rare.	511583	133.34-134.67	1.33	0.335
			Nodular tuff is less intensely bleached out and silicified to 136.0m then silicification, bleaching and chlorite alteration increase again. A 2mm to 5mm thick quartz carbonate vein runs down the centre of the core or at 3° to C.A. from 136.00m to 136.72m. At 136.4m very intense silicification and pyrite mineralization occur.	511584	134.67-136.40	1.73	0.035
			Light grey intensely silicified Nodular to Lapilli Tuff. Pyrite mineralization is very strong at approx. 10% as both coarse crystalline and fine grained particles. A very minor amount of sphalerite is observed (<0.5%)	511585	136.40-137.20	0.80	0.135
			As above with quartz-carbonate on fractures. Pyrite content is less at 3-5%. From 138.07 to 139.14m a 2mm to 1 cm thick quartz carbonate vein runs down the centre of the core until 138.70m where it cuts core axis at 3° to 5° to exit at 139.15m	511586	137.20-139.00	1.80	0.035
			Silicification decreases dramatically and purple biotite altered Nodular Tuff texture returns. Weaker irregular orientated quartz carbonate veining cuts core axis at approx 35°. Pyrite content is 1-2%	511587	139.00-141.00	2.00	0.035
			As above. At 141.70m massive pyrite veinlet (3mm thick) cuts C.A. at 20°. From 142.00 to 142.10m - 1 cm thick moderately pyritized quartz vein at 25° to 30° to C.A. Slightly increased pyrite (2-3%) and greyish silicification from 142.23 to 142.63m. More fragmental (lapilli) textured.	511588	141.00-143.00	2.00	
			As above, with increased quartz veining (2 phases). White bleached and argillic altered shear zone at 144.65m at 20° to C.A. Purplish biotite alteration remains throughout but increased chlorite alteration in more intensely silicified sections.	511589	143.00-144.50	1.50	
			Intensely silicified and quartz veined section with bluish grey colour to the unit.	511590	144.50-145.27	0.77	0.040

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Purplish, less bleached colour returns from 144.90-145.27. Moderate chlorite alteration and 3-5% pyrite in veins, fractures and around the rims of lapilli fragments.				
			Dark purplish grey nodular textured tuff alternates with coarse grained lapilli (fragmental) tuff. 10 cm thick white (unmineralized for the most part) quartz vein at 75° to C.A.	511591	145.27-147.00	1.73	0.010
			Purplish Nodular Tuff - Dark purplish grey with greyish nodules to 2 cm diameter. From 147.27 to 148.54m a 1 to 1.5 cm intensely pyritized (coarse grained) quartz vein runs down the centre of the core. it cuts core axis at 0-5° and undulates down the length of core. Strong chlorite alteration is associated with this vein. From 148.59 to 148.63m a white 5 cm quartz vein with coarse pyrite in the centre of the vein cuts C.A. at 65°.	511592	147.00-148.64	1.64	
			Homogeneous silicified dark purple grey Nodular Tuff. Minor veining and pervasive silicification. 1-2% pyrite as disseminations and around rims of nodules and fragments. Greenish chlorite altered section with 2-3% pyrite from 149.95 to 150.05m	511593	148.64-150.00	1.36	0.010
			As above but fewer scattered nodules. From 150.60 to 151.05m a 2-3mm thick pyritized and intensely chloritized quartz vein runs parallel to core axis (2-3% pyrite)	511594	150.00-152.00	2.00	0.020
			Purplish nodular to lapilli (fragmental) Dacitic-Andesitic Tuff continues. From 153.0 to 153.47m core is very broken up with strong quartz carbonate veining and 27° to 30° to C.A. and at 10° to 15° to C.A. - 2-4% pyrite. At 153.67 unit contacts Fault Zone along contact with Andesite Dyke.	511595	152.00-153.67	1.67	0.020
153.67	153.80		<b>FAULT ZONE</b> - with brown clay seam contact is 45° to 50° to C.A.				
153.80	157.26	521	<b>ANDESITE DYKE</b>	511596	153.67-155.00	1.33	0.015
			Dark grey green very fine grained and strongly chlorite altered. Core very broken up with 20cm lost between 154 and 156m and 30-40 cm lost between 156 and 158m. Carbonate veining is moderate with minor pyrite (<1%)	511597	155.00-157.26	2.20	<0.005
157.26	157.80		<b>MAJOR FAULT ZONE</b> - Brown grey clay rich mud and fragments of andesite dyke. At 157.80m contacts Nodular Tuff at approximately 20-25° to C.A.	511598	157.26-157.80	0.54	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
157.80	160.32	412	<b>DACITIC-ANDESITIC LAPILLI (NODULAR) TUFF.</b> More massive section of finer grained nodular tuff with most nodules, crystal fragments and lapilli <0.5 cm diameter. Larger nodules are rare and scattered at random throughout. Dark purple to purplish grey. Carbonate with quartz in veins is much less intense than in above noted dyke and fault zone sections.				
			As above. At 158.95 a 1 cm thick quartz carbonate vein at 45° to C.A. carries a 3mm wide band of massive pyrite.	511599	157.80-159.00	1.20	<0.005
			Dark purple massive section of Nodular Tuff with pyritized carbonate veins with pyrite and strong chlorite alteration at 48° and 75° to C.A. at 159.85m and 159.9m.	511600	159.00-160.32	1.32	

160.32m: End of Hole (E.O.H.)



# MOUNT HOPE RESOURCES CORPORATION

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**SECTION:** 30038N

**Diamond Drill Log**

**DDH#:** HS97-06

Northing: 30038.00N  
 Easting: 21101.00E  
 Elevation: 882  
 Azimuth: 050°  
 Inclination: -57  
 Grid: Aranlee  
 Length (m): 227.69 (747A)  
 Core size: NQ-2  
 Contractor: F. Boisvenu  
 Drill Type: Boyles 37

Drill Hole survey  
 Method: Acid Test  
 Azimuth      Dip      Depth

Azimuth	Dip	Depth
050	-57°	0

Property: Hotspring  
 NTS: 92G/9+16  
 Claim: Hotspring 7  
 Date Started: Sept.24/97 9p.m.  
 Date Completed: Sept.26/97  
 Logged by: W.B.Lennon & J.T.Shearer

Purpose:

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.05	9	<b>Casing/Overburden</b>				
3.05	6.50?	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Core very weathered and broken. Contact measurements are approximated in upper part. Medium grey, pervasively silicified. Pyrite is found along quartz vein margins and around lapilli fragments. Veining overall is weak. Chlorite alteration is weak to moderate and give a greenish tinge to unit. Small sections show a mottled purplish colour due to secondary biotite alteration.				
			Very broken and covered with rusty surface mud. Recovery is ~95%.	65811	3.05-5.00	1.95	
			Abundant pyrite in quartz vein from 2.05 to 3.75m. Veining at various orientation. Approx. 35% core recovered. Siliceous Felsic Lapilli Tuff. At an estimated contact with Andesite dyke.	65812	5.00-6.50	1.50	0.335
6.50?	7.00	522	<b>ANDESITE DYKE</b> - Dark green to almost black, very fine grained, weakly magnetic. Very broken core. Dyke material mostly lost.	65813	6.50-7.00	0.50	0.065
7.00	12.80	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Same as described from 3.05-6.50m. Core remains very broken and weathered from surface effects.	65814	7.00-9.00	2.00	0.080
			Possible Fault Zone at 12.80m. Rusty sandy to clay textured gouge. Possibly a fracture filling with surface material.	65815	9.00-11.00	2.00	0.075
			Broken rubbly siliceous felsic lapilli tuff.	65816	11.00-12.80	1.80	0.280
12.80	13.00		Possible <b>Fault Zone</b> - roughly at 28° to C.A.	65817	12.80-13.00	0.20	0.080

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
13.00	14.35	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Fine grained greenish grey, with creamy coloured fragments to 1.5 cm diameter. Moderate chlorite alteration and 1-2% pyrite. At 14.35m contacts an Andesite Dyke with some clay gouge (brown) at 47° to C.A.	65818	13.00-14.35	1.35	
14.35	15.44	522	<b>ANDESITE DYKE</b> - Dark green to almost black. Minor veining and intense chlorite alteration particularly on fracture surfaces. a 1-3mm thick coarse grained pyritic vein at 15.15m at 30° to C.A. Slightly altered almost gradational contact with Siliceous Felsic Lapilli Tuff at 15.44m at 45°? to C.A. Attitude uncertain.	65819	14.35-15.44	1.09	0.020
15.44	16.50	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light grey greenish pervasively silicified lapilli tuff. Fragment boundaries are obliterated for the most part by the alteration. Stress fracturing in several directions have caused vuggy fractures.	65820	15.44-16.50	1.06	0.030
16.50	18.91	811	<b>ANDESITIC TUFF</b> - (possibly dyke) - Dark green, very fine grained and massive minor patches of scattered feldspar fragments gives weak porphyritic appearance. Moderately magnetic. Silicified fractures. Very abundant coarse pyrite. main fracturing 75° & 40° to C.A. At 18.91 sharp contact with well mineralized section of siliceous Felsic Lapilli Tuff at 50° to C.A.	65821	16.50-18.00	1.50	0.015
				65822	18.00-18.91	0.91	0.010
18.91	20.85	314	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Dark bluish grey, intensely silicified and quartz veined. Very <u>intense pyrite</u> throughout ranging up to <u>10-15%</u> . Brown sphalerite mineralization is approx. 1% but is more visible in the veined section from 19.90-20.42m. Large amounts of quartz flooding in and around darker ghostly fragments give the unit a mottled brecciated appearance. From 20.50 to 20.85m the unit is fractured due to shearing near its contact with a small andesitic dyke. Pyrite is very heavy running up to 20%. Moderate chlorite alteration. Sheared contact with dyke at 20.85m at approx. 20° to C.A.	65823	18.91-19.51	0.60	0.615
				65824	19.51-20.42	0.91	0.810
				65825	20.42-20.85	0.43	0.395
20.85	21.40	522	<b>ANDESITE DYKE</b> - Greenish charcoal grey, very fine grained, chlorite altered and weakly magnetic. Minor pyrite. Dyke contacts Siliceous Felsic Tuff along a small fault at approx. 30° to C.A.	65826	20.85-21.45	0.60	0.025
21.40	21.45		<b>FAULT CONTACT ZONE</b>				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
21.45	21.95	412	<b>DACITIC-ANDESITIC LAPILLI TUFF (NODULAR)</b> - Dark purplish grey Nodular Tuff. silicified and biotite altered. Contains ghostly grey green nodules to 1 cm diameter. 1% pyrite. At 21.95m contacts Siliceous Felsic Lapilli Tuff at 50° to C.A.	65827	21.45-21.95	0.50	0.270
21.95	26.52	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light to medium bluish grey to greenish grey where chlorite alteration is prevalent. Pervasively silicified and weakly veined. Strong limonite alteration on fractures mainly at 65° to 70° to C.A. and at 30° to C.A. Pyrite mainly 1% or less.	65828	21.95-23.00	1.05	0.160
			As above.	65829	23.00-25.00	2.00	0.095
			Light greenish grey and finer grained than above, very homogeneous section with minor veining. Limonite coating on weathered fractures. At 26.52 a fault zone occurs at ≈70° to C.A. White quartz vein material and talc-like gouge and limonite are found in the fault.	65830	25.00-26.52	1.52	0.050
26.52	26.80		<b>FAULT ZONE - Sheared quartz vein and felsic tuff material with clay, sericite? and strong limonite staining.</b>	65831	26.52-26.80	0.28	0.005
26.80	27.55	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Medium greenish grey silicified with contorted quartz veining. Pyrite has not increased to any great degree. Fragments stand out as creamy coloured angular pieces in a quartz rich matrix. Fragments appear to be sericitized.	65832	26.80-27.55	0.75	0.055
27.55	27.88		<b>FAULT ZONE</b> - in Siliceous Felsic Lapilli Tuff. Broken and ground core. Limonite stained. Lower contact with Felsic Lapilli Tuff is at 50-55° to C.A.	65833	27.55-27.88	0.33	0.015
27.88	37.00	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light blue grey coarse grained (lapilli) fragments to 3 cm diameter. Finely disseminated pyrite throughout, also along fractures and around fragment rims. no veins of significant size, other than from 28.89 to 29.46m where a white quartz vein or flood zone cut C.A. at 20° at its upper contact and at 40° along its lower contact. This vein is vuggy but poorly mineralized. Overall pervasive weak to moderate chlorite alteration.	65834	27.88-28.84	0.96	<0.005
			Small Shear zone at 34.60m at approx. 30° to C.A. 2 cm thick white quartz vein and related small shear from 33.4 to 33.55m at 50° to C.A.	65835	28.84-29.46	0.62	<0.005
				65836	29.46-31.00	1.54	<0.005
				65837	31.00-33.00	2.00	<0.005
			Broken core with ilmonite and clay alteration on fractures. Most rock breakage due to fractures at 5-15° to C.A.	65838	33.00-35.00	2.00	<0.005
				65839	35.00-35.66	0.66	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			As from 33.00-35.00m	65840	35.66-37.00	1.34	<0.005
			At 37.00m unit contact at 25-35° to C.A. a brownish to greenish grey brown andesite dyke.				
37.00	38.15	521	<b>ANDESITE DYKE</b> - Massive, very fine grained greenish charcoal grey. Pyrite coats hairline fractures and is also disseminated. The unit is very weakly magnetic. lower contact with Siliceous Felsic Lapilli tuff at 38.15m is at 30° to C.A.	65841	37.00-38.15	1.15	<0.005
38.15	39.05	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light grey-green, abundant wisps of chlorite throughout. Rusty fractures at 75° to C.A. Minor disseminated pyrite. Chlorite also along fractures, somewhat irregular about 80° to C.A. Lower contact slightly brecciated at 80° to C.A. Minor calcite coated slickensides + pyrite smears.	302501	38.15-39.05	0.90	<0.005
39.05	40.32	521	<b>ANDESITE DYKE</b> - Dark uniform green, fine grained, massive appearance. Minor pyrite along fractures at 35° to C.A. Slightly bleached along fractures. Lower contact sharp at 85° to C.A. for 10mm	302502	39.05-40.32	1.27	0.005
40.32	46.68	411	<b>DACITIC LAPILLI TUFF</b> - Distinctly brownish matrix, angular to well rounded fragments up to 6 cm in length. Fragments aligned. Section entirely bleached (perhaps 321) down to lower contact at 46.68m. Highly chloritic with chlorite replacing matrix. Minor disseminated pyrite.	302503	40.32-42.00	1.68	<0.005
				302504	42.00-43.50	1.50	<0.005
				302505	43.50-45.00	1.50	<0.005
				302506	45.00-46.68	1.68	<0.005
46.68	49.04	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, slightly for fracture controlled pyrite at 65° to C.A. At 47.95 some lapilli fragments have been incorporated into the dyke as inclusions? narrow quartz vein 5mm wide subparallel to C.A. with pyrite.	302507	46.68-49.04	2.36	0.250
49.04	52.02	498	Bleached and shattered <b>DACITIC LAPILLI TUFF</b> - Light greenish grey, core very fractured subparallel to C.A.	302508	49.04-50.40	1.36	0.020
				302509	50.40-52.02	1.62	0.015
<b>FAULT</b>		198	Gouge between 51.10-51.32m at 58° to C.A.				
52.02	58.30	522	<b>ANDESITIC DYKE</b> - Dark green, fine grained, slightly more fracture filling pyrite fractures mainly at 65° to C.A. Minor bleaching on quartz veinlets also at 65° to C.A. More pyrite toward lower contact in veinlets at 5° to C.A. Lower contact slightly brecciated and bleached.	302510	52.02-54.00	1.98	0.010
				302511	54.00-56.00	2.00	0.005
				302512	56.00-58.30	2.30	0.005
58.30	68.44	412	<b>HIGHLY SILICEOUS DACITIC(?) LAPILLI TUFF</b> - Light greyish-green highly altered by chlorite, silica and K-spar (?)	302513	58.30-59.50	1.20	0.280

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Several directions of quartz veinlets 20° + 80° to C.A. Abundant pyrite along 20° fractures from 59.40m to end of interval at 68.44m. Short altered dyke 59.96-60.70m bleached and pyritized.	302514	59.50-61.00	1.50	0.440
			Pyrite rims fragments and forms small irregular lenses throughout. Highly siliceous, quartz veining at 61.80 is 45° to C.A.	302515	61.00-62.00	1.00	0.480
			Convoluted texture.	302516	62.00-63.00	1.00	0.280
			Short sections of brownish matrix common from 63.00-65.20m.	302517	63.00-64.00	1.00	0.190
			<b>BLEACHED &amp; PYRITIZED ANDESITIC DYKE-SILL</b> - Dark to light green, silicified sections more pyritized than fresh sections. short sericitized intervals common.	302518	64.00-65.00	1.00	0.155
			Fractures mainly at 40° to C.A. Sparse plagioclase phenocrysts throughout. Relatively uniform below 72.00m.	302519	65.00-66.00	1.00	0.700
			Lower contact brecciated between 76.85-77.00m	302520	66.00-67.00	1.00	0.980
68.44	77.00	522	<b>BLEACHED &amp; PYRITIZED DACITIC LAPILLI TUFF</b> - Abundant sericite and silica within bleached areas. Shear zone at 70° to C.A. at 77.15m.	302521	67.00-68.44	1.44	1.440
			Matrix mainly brown when not bleached greenish-grey. Black hairlines at 81.70m at 35° to C.A. associated with bluish grey quartz.	302522	68.44-70.00	1.56	0.040
			<b>PYRITIZED &amp; ALTERED ANDESITIC DYKE</b> - pyrite disseminated throughout ~4%. some quartz pyrite-calcite veinlets 10mm wide at 80° to C.A. Minor brecciation at 82.80m by cherty silica.	302523	70.00-72.00	2.00	0.010
			<b>NODULAR DACITIC TUFF</b> - Brown matrix with rounded nodules ranging from 3mm to >20mm. Irregular chlorite lenses cored by pyrite veinlets are common. Chloritic envelopes up to 30mm wide. Entire interval cut by irregular quartz veinlets. Slightly more disseminated pyrite from 91.14-93.40m. White to light grey bleaching form 65mm at lower contact.	302524	72.00-73.00	1.00	0.010
				302525	73.00-74.00	1.00	<0.005
				302526	74.00-75.00	1.00	<0.005
				302527	75.00-77.00	2.00	0.010
77.00	81.90	452	<b>ANDESITIC DYKE</b> - Dark green, fine grained, cut by 2 quartz veinlets containing pyrite and chalcopyrite at 75° to C.A. at 95.10m. Quartz vein at lower contact contains pyrite & trace sphalerite at 25° to C.A. Minor green gouge along lower contact at 80° to C.A.	302528	77.00-78.00	1.00	0.055
				302529	78.00-79.00	1.00	0.070
				302530	79.00-80.00	1.00	0.390
				302531	80.00-81.00	1.00	0.240
				302532	81.00-81.90	0.90	0.340
81.90	84.01	522		302533	81.90-84.01	2.11	0.045
				302534	84.01-86.00	1.99	0.230
				302535	86.00-88.00	2.00	0.250
				302536	88.00-90.00	2.00	0.140
				302537	90.00-92.00	2.00	0.150
				302538	92.00-94.35	2.35	0.050
94.35	95.70	521		302539	94.35-95.70	1.35	0.020

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
95.70	98.03	531	<b>HIGHLY BLEACHED CARBONATIZED ANDESITE DYKE</b> - Light green, fine grained, cut by numerous low angle calcite stringers, minor gouge along fracture surfaces at 25° to C.A.	302540	95.70-97.10	1.40	<0.005
			Lower contact chilled margin at 54° to C.A.	302541	97.10-98.03	0.93	<0.005
98.03	99.85	111	<b>BASALTIC DYKE</b> - Fine grained, dark grey characterized by thin wispy lenses and highly chloritized mafics. Dyke has many small cavities. Lower contact shows wide-chilled margin up to 22mm wide. Irregular chloritized, rounded, plagioclase phenocrysts up to 3mm are common in the lower part of the dyke.	302542	98.03-99.85	1.82	<0.005
99.85	105.01	431	<b>HIGHLY ALTERED (Bleached) &amp; SHEARED NODULAR TUFF</b> - Light grey-brownish colour, network of white calcite veinlets abundant down to 102.70. Main shear direction subparallel up to 20° to C.A. minor pyrite along fractures. More siliceous in appearance below 102.70m. Quartz vein at 103.61 is 25mm wide at 86° to C.A.	302543	99.85-102.00	2.15	0.005
				302544	102.00-103.50	1.50	0.020
				302545	103.50-105.01	1.51	0.095
105.01	109.67	421	<b>NODULAR DACITIC LAPILLI TUFF</b> - Distinctive brown (biotitic) matrix with light grey rounded to angular fragments. Minor disseminated pyrite <1%. Chlorite intensity associated with pyrite-calcite veining.	302546	105.01-107.00	2.00	0.045
				302547	107.00-108.00	1.00	0.075
				302548	108.00-109.67	1.67	0.040
109.67	110.40	412	<b>HIGHLY SILICEOUS &amp; PYRITIZED NODULAR DACITIC LAPILLI TUFF</b> - Abundant, disseminated pyrite at top of interval. Light grey, no brown matrix although texture remains.	302549	109.67-110.40	0.73	0.410
110.40	129.41	421	<b>CHLORITIC DACITIC NODULAR LAPILLI TUFF</b> - Typical brown matrix (biotitic) surrounding greenish grey fine grained fragments. Minor disseminated pyrite throughout. Traces of pyrite on calcite coated fractures at 113.20m 80° to C.A. Quartz vein 2.4mm wide at 114.93m at 75° to C.A. Core fractured and sheared 116.69-121.02m at various angles but mainly between 10-25° to C.A. Nodules very distinct 121.54-121.70m - perhaps a bed contact or pyroclastic "flow" more typical diffuse-irregular nodules and finer grained sections where nodules average 3mm in diameter. More siliceous toward lower contact. Narrow quartz veining 127.95m 2 cm wide, disseminated pyrite. Lower contact sheared at 70° to C.A.	302550	110.40-112.00	1.60	0.070
				302551	112.00-114.00	2.00	0.050
				302552	114.00-116.00	2.00	0.010
				302553	116.00-118.00	2.00	0.010
				302554	118.00-120.00	2.00	0.025
				302555	120.00-122.00	2.00	0.035
				302556	122.00-124.00	2.00	0.010
				302557	124.00-126.00	2.00	0.010
				302558	126.00-127.00	1.00	0.010
				302559	127.00-128.00	1.00	0.005
				302560	128.00-129.41	1.41	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
129.41	135.51	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, minor disseminated and fracture controlled pyrite throughout. Brownish bleaching centred around 131.00m. Fine grained carbonate. minor pyrite on fractures at <25° to C.A. Lower contact moderately sheared at 38° to C.A.	302561	129.41-131.00	1.59	0.005
				302562	131.00-132.50	1.50	<0.005
				302563	132.50-134.00	1.50	<0.005
				302564	134.00-135.51	1.51	<0.005
135.51	137.62	411	Fine grained <b>DACITIC TUFF</b> brown matrix with mottled texture containing sparse rounded quartz lapilli fragments. Minor more typical nodular pattern at 136.50m. Traces of pyrite along fractures at 30° to C.A.	302565	135.51-137.62	2.11	0.015
137.62	140.80	521	<b>ANDESITE DYKE</b> - Dark green, very fine grained, highly shattered - fractured at upper contact at 25° to C.A. Possible dacitic digested fragment around 139.00 - more equigranular medium crystalline. Lower contact quite broken and fractured - faulted.	302566	137.62-139.00	1.38	0.010
				302567	139.00-140.80	1.80	0.015
140.80	154.67	421	<b>DACITIC NODULAR TUFF</b> - Typical brownish matrix with light grey diffuse nodules up to 20mm. Abundant chlorite throughout. Disseminated pyrite increases in abundance around 144.00m and down to lower contact at 154.67m. Quartz vein at 141.19m, 2 cm wide, contains minor pyrite and traces of MOLYBDENITE, drusy quartz lined cavities.	302568	140.80-142.34	1.54	0.010
				302569	142.34-144.00	1.66	0.015
				302570	144.00-145.50	1.50	0.165
				302571	145.50-147.00	1.50	0.155
				302572	147.00-148.50	1.50	0.090
				302573	148.50-150.00	1.50	0.045
				302574	150.00-151.50	1.50	0.050
				302575	151.50-153.00	1.50	0.070
				302576	153.00-154.00	1.00	0.025
154.67	157.08	531	<b>VERY BLEACHED ANDESITE DYKE</b> - Light green, mottled texture due to bleaching around close spaced quartz hairlines only minor disseminated pyrite. Sampled interval covers upper contact and lower contact. Lower contact slightly brecciated at 64° to C.A.	302577	154.00-155.00	1.00	0.025
				302578	156.75-157.75	1.00	0.075
157.08	163.51	421	<b>DACITIC NODULAR LAPILLI TUFF</b> - Typical with fine grained brown with diffuse rounded light grey nodules. Short sections up to 10 cm long which are highly siliceous. Quartz veinlet 159.76-159.81m. Minor pyrite and molybdenite 3.5 cm wide at 56° to C.A. Very well defined nodules from 159.81 down to lower contact at 163.51m. Minor shearing along lower contact at 68° to C.A. with traces of gouge, chlorite & bleaching common.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Sampled area covers lower contact shearing and alteration	302579	162.60-163.60	1.00	0.015
163.51	167.86	521	<b>ANDESITE DYKE : MEDIUM CRYSTALLINE</b> - not fine grained. 1-2mm plagioclase crystals abundant throughout. minor pyrite along fractures at 50° to C.A. 2mm wide. Bleaching common - occasionally concentrated as between 164.39-164.49m. Lighter coloured zone appears to be related to chlorite coated fractures central to the bleached zone. Gradational change to fine grained aphanitic at 166.60m. Sample is fractured fine grained dyke and Fault gouge.	302580	167.50-168.50	1.00	<0.005
167.86	168.43	198	<b>FAULT GOUGE</b> - Alternating white and green, very calcite rich zone 57 cm wide, 58° to C.A. at bottom of gouge is 7 cm wide slice of Nodular Dacitic Tuff.	302580	167.86-168.43	0.57	
168.43	169.34		<b>BASALTIC DYKE</b> - Dark grey-black mafic phenocrysts very abundant, very chloritic. Lower contact at 86° to C.A., distinctly chilled margin over 8mm.				
169.34	177.30	421	<b>ALTERED DACITIC NODULAR LAPILLI TUFF</b> - Brown fine grained matrix with slightly lighter grey lapilli fragments. Slightly sheared section from 171.00-172.34m shearing at 85° to C.A. Minor gouge and calcite films. Shattering at 25° to C.A. starting at 175.50-176.20m. Slightly more pyrite content 176.20-177.30m. Narrow quartz veinlets at 167.90m, 20mm wide pyrite traces.	302581	171.00-172.34	1.34	0.010
				302582	175.50-177.30	1.80	0.215
177.30	180.10	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, minor pyrite on fracture surfaces. Low angle fracturing common. Minor bleaching.				
180.10	181.00		<b>ALTERED ZONE</b> Dark brown-fine grained matrix. highly siliceous, traces of pyrite. Probably dacitic tuff slice. Lower contact at 50°	302583	180.10-181.00	0.90	0.020
181.00	183.90	521	<b>ANDESITE DYKE</b> - dark green, fine grained. Minor pyrite along 30° fractures. Fracture density increases toward lower contact. Lower contact gradational over 10-15 cm at high angle.				
183.90	186.27	421	<b>DACITIC NODULAR LAPILLI TUFF</b> - Typical fine grained brown matrix with small rounded lighter grey nodules. Narrow dyke 186.19-186.26m - altered basaltic. Lower contact at 35-40°.	302584	183.50-185.00	1.50	0.080
				302585	185.00-186.27	1.27	



# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

SECTION: 30038N

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DDH#: HS97-06

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
186.27	210.00	(altered)	<b>SILICEOUS STOCKWORKS-HORNFELS -</b> Developed in Dacitic Tuff. Light grey throughout with minor streaky brown sections. upper contact marked by bright green epidote and chlorite to 186.40m. Many orientation of quartz hairlines, some containing fine grained pyrite are parallel to C.A. Other wider veinlets at 65° to C.A. contain pyrite and molybdenite. Epidote is common throughout associated with pyrite in veinlets at 80° to C.A. The abundance of epidote suggests the presence of an intrusive nearby. Epidote veinlets are spaced about every 50 cm apart. This interval should be assayed for MoS <sub>2</sub> . Abundant MoS <sub>2</sub> and sphalerite and pyrite in veinlets at 194.50 at 28° to C.A. Vuggy quartz veinlet at 196m contains crystalline MoS <sub>2</sub> on epidote in the vugs associated with dark brown sphalerite, sphalerite up to 3 cm long lenses, Epidote common within quartz veinlets. Highly fractured at 25°-40° to C.A. at 197.30-197.60m. Less altered interval 199.80-202.50m and 204.00-205.80m. Lenses of dark brown garnet 207.47-207.78 at 80-90° to core axis. Pyrite lenses at 10° to C.A. at 209.30-209.40m. Gradational lower contact over about 1.00 metres. Lenses of altered material gradually becoming narrower and Dacitic Nodular Tuff less altered.	302586	186.27-187.50	1.23	
				302587	187.50-189.00	1.50	
				302588	189.00-190.50	1.50	
				302589	190.50-192.00	1.50	0.020
				302590	192.00-193.50	1.50	0.030
				302591	193.50-194.00	0.50	
				302592	194.00-195.00	1.00	0.140
				302593	195.00-196.00	1.00	0.080
				302594	196.00-197.00	1.00	0.080
				302595	197.00-198.00	1.00	
				302596	198.00-199.50	1.50	
				302597	199.50-201.00	1.50	
				302598	201.00-202.50	1.50	0.055
				302599	202.50-204.00	1.50	0.040
				302600	204.00-205.50	1.50	0.030
				302601	205.50-207.00	1.50	0.035
				302602	207.00-208.00	1.00	
				302603	208.00-209.00	1.00	0.030
				302604	209.00-210.00	1.00	0.020
210.00	215.00	411	Altered siliceous <b>DACITIC NODULAR LAPILLI TUFF</b> - Gradational contacts above and below, more fine grained brown matrix with lighter grey diffuse lapilli fragments. Narrow irregular quartz veining widely spaced throughout grey-blue quartz with minor pyrite, at 212.81-212.85m at 87° to core axis. Other quartz veins at 211.12m, 211.50m, 211.70m, 213.39m.	302605	210.00-211.00	1.00	0.015
				302606	211.00-212.00	1.00	
				302607	212.00-213.00	1.00	0.060
				302608	213.00-214.00	1.00	0.115
				302609	214.00-215.00	1.00	0.115
215.00	217.48		<b>SILICEOUS STOCKWORKS-HORNFELS -</b> Light grey, bleached, minor chlorite veinlets. Minor disseminated pyrite throughout. Quartz veining mainly at 42° to C.A. This alteration is developed in Dacitic Nodular Tuff and the fragments are still clearly visible. Lower contact sharp at 80° to C.A.	302610	215.00-216.00	1.00	
				302611	216.00-217.48	1.48	<0.005

# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

SECTION: 30038N

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DDH#: HS97-06

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
217.46	222.63	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, however, white plagioclase phenocrysts are occasionally abundant for short sections giving a speckled appearance. Core quite fractured from 220.25-221.80m. Fractures are coated with minor calcite. Narrow quartz-epidote ± brown garnet occur at 221.46 at 70° to C.A.	302612	217.48-219.00	1.52	<0.005
				302613	219.00-220.50	1.50	<0.005
				302614	220.50-221.50	1.00	<0.005
				302615	221.50-222.63	1.13	<0.005
222.63	224.28	411	Altered <b>SILICEOUS DACITIC NODULAR LAPILLI TUFF</b> - Brown fine grained matrix with variable intensity of diffuse lighter grey nodules. Relatively sharp lower contact at 60° to C.A.	302616	222.63-224.00	1.37	0.015
224.28	226.36		<b>SILICEOUS STOCKWORKS-HORNFELS</b> - Light grey, fine grained alteration and bleaching of original dacitic Nodular Lapilli Tuff. quartz hairlines at 60-70° to C.A. Larger vuggy quartz vein at 226.38 at 80° to C.A.	302617	224.00-225.00	1.00	0.030
				302618	225.00-226.00	1.00	0.015
				302619	226.00-226.69	0.69	0.010
226.36	227.69	411	Altered <b>SILICEOUS DACITIC NODULAR LAPILLI TUFF</b> - Brown fine grained matrix with lighter grey nodules and lapilli fragments. Minor gouge on fractures at 226.69 at 54° to C.A. Minor euhedral pyrite.				<0.005

END OF HOLE 227.69M (747 ft)



# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

SECTION: 30038N

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DDH#: HS97-07

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
27.30	32.00	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained pyrite on fractures associated with bleaching at 85° to C.A. Minor chlorite lenses along carbonate filled fractures at 31° to C.A. Short section of rubble of nodular Tuff 29.38-29.60m Fault slice or cave? Highly fractured, by low angle fractures below 31.00 to contact.	302636	27.30-29.30	2.00	<0.005
				302637	29.30-21.00	2.70	0.010
32.00	35.50	322	<b>PYRITIC SILICEOUS FELSIC TUFF</b> - Light grey, fine grained, minor ghosts of lapilli fragments. Mainly fracture controlled pyrite which approaches semi-massive concentrations over short intervals. Minor dark brown sphalerite associated with pyrite veinlets at 80° to C.A. Lesser pyrite is along 30° fractures ± chlorite. Gouge filled fractures subparallel to core axis between 34.19-34.58m. Lower contact brecciated over 12 cm, contact at 71° to C.A.	302638	32.00-33.00	1.00	0.400
				302639	33.00-34.00	1.00	0.060
				302640	34.00-35.50	1.50	0.050
35.50	36.88	521	<b>ANDESITIC DYKE</b> - Dark grey but slightly more bleached than usual, fine to medium crystalline, indistinct mottled appearance. Lower contact sharp along strongly carbonatized alteration zone.	302641	35.50-36.88	1.38	0.015
36.88	39.40		<b>HIGHLY ALTERED DACITIC TUFF</b> - relict brown fine grained matrix, Highly Siliceous. Minor pyrite along 20° fractures.	302642	36.88-38.00	1.12	0.010
				302643	38.00-39.40	1.40	0.020
39.40	41.55	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, very fractured and broken, main fracture direction is subparallel to core axis. lower contact sharp at gougy fracture at 75° to C.A.	302644	39.40-41.55	2.15	0.240
41.55	54.45	322	<b>HIGHLY ALTERED SILICEOUS STOCKWORK-BRECCIA, Very Pyritic Throughout</b> - appears to be very altered Dacitic Tuff. Chlorite and silica main alteration materials	302645	41.55-43.00	1.45	
				302646	43.00-44.00	1.00	0.590
				302647	44.00-45.00	1.00	1.070
				302648	45.00-46.00	1.00	
				302649	46.00-47.00	1.00	0.840
				302650	47.00-48.00	1.00	1.300
				302651	48.00-49.00	1.00	2.840
			302652	49.00-50.00	1.00	0.535	
			302653	50.00-51.00	1.00		

# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

SECTION: 30038N

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DDH#: HS97-07

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Pyrite lenses have a variety of orientations.	302654	51.00-52.00	1.00	
			minor galena and brown sphalerite are common accessory minerals associated with the pyrite lenses.	302655	52.00-53.00	1.00	0.245
			Gouge filled fractures at 43.24m are at 50° to C.A. generally the breccia fragments are aligned between 50-65° to C.A. However, some silica bands are subparallel to C.A. Pyrite lenses are commonly 60° to C.A.	302656	53.00-54.00	1.00	
			Galena at 44.50m, gouge filled zone 47.85-47.90m. Quartz veining convoluted near bottom of section.	302657	54.00-54.95	0.95	0.290
54.95	55.88	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, minor bleaching around pyrite-quartz veining at 70° to C.A. Lower contact highly broken-gouge at about 30° to C.A.	302658	54.995-55.88	0.93	0.025
55.88	62.75		<b>HIGHLY ALTERED SILICEOUS STOCKWORK-BRECCIA</b> - Darker brown in upper part down to 56.80m, brown fine grained matrix persists to 58.33m. Highly siliceous with variable amounts of pyrite ± sphalerite to lower contact.	302659	55.88-57.00	1.12	
			Sphalerite most abundant 58.33-59.00m and 60.00-61.00m, seam of ZnS at 62.05m is at 28° to C.A., 10mm wide.	302660	57.00-58.33	1.33	
				302661	58.33-59.00	0.67	0.435
				302662	59.00-60.00	1.00	0.310
				302663	60.00-61.00	1.00	
				302664	61.00-62.00	1.00	
62.75	76.45	521	<b>ANDESITIC DYKE</b> - Dark green, mainly fine grained. Brown garnet and green calc-silicates in bands at 44° at 67.12-67.23m. Abundant chlorite on fractures mainly at 30° to C.A. minor pyrite-quartz veins at 85° to C.A. Gouge along 40° fractures 69.41-69.53m, wider quartz veins below 71.50m up to 5.5 cm.	302665	62.00-62.75	0.75	0.365
			General pervasive bleaching starts at 72.60m. Highly siliceous and brecciated between 74.34-75.80m associated with abundant pyrite. Interval 75.80-76.45m more typical barren fine grained dark green andesite.	302666	62.75-65.00	2.25	0.015
			Lower contact sharp at 66° to C.A.	302667	65.00-67.00	2.00	0.020
				302668	67.00-69.00	2.00	<0.005
				302669	69.00-71.00	2.00	<0.005
				302670	71.00-72.60	1.60	<0.005
				302671	72.60-74.34	1.74	<0.005
				302672	74.34-75.00	0.66	0.175
				302673	75.00-75.80	0.80	0.060
				302674	75.80-76.45	0.65	<0.005
76.45	78.85		<b>HIGHLY SILICEOUS STOCKWORK-BRECCIA</b> - Light grey, very silica-rich, semi-massive pyrite within a lens running 10-15° to C.A. Fine grained brown matrix increasing from 77.80m to end of interval in a highly brecciated pattern.	302675	76.45-77.25	0.80	0.250
				302676	77.25-48.00	0.75	0.495
				302677	78.00-78.85	0.85	0.050

# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
78.85	82.55	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, minor quartz-pyrite veinlets at 85° and 10° to C.A. Calcite coated fractures are common at 5° to C.A. associated with minor pyrite.	302678	78.85-80.85	2.00	0.070
				302679	80.85-82.55	1.70	0.030
82.55	88.65		<b>HIGHLY SILICEOUS STOCKWORK-BRECCIA</b> - Light grey mainly, some fine grained brown matrix common for first 60 cm. irregular pyrite lenses common, however, pyrite content is less than similar intervals above. Highly fractured between 84.00-88.00m, fractures mainly low angle. Gouge on fractures at 87.50 at 10° to C.A. Lower contact gradational over about 30 cm.	302680	82.55-84.00	1.45	0.110
				302681	84.00-85.50	1.50	0.035
				302682	85.50-87.00	1.50	0.370
				302683	87.00-88.65	1.65	0.290
88.65	96.58	411	<b>ALTERED DACITIC LAPILLI TUFF</b> - Brown mottled, fine grained, brown matrix with light grey lapilli fragments up to 3 cm in length. Quartz flooding common, minor disseminated pyrite. Highly fractured by mainly low angle fractures down to 91.00m. Lower contact marked by 3 cm of gouge at 65° to C.A.	302684	88.65-90.22	1.57	0.335
				302685	90.22-93.00	1.78	0.200
				302686	93.00-95.00	2.00	1.540
				302687	95.00-96.58	1.58	0.255
96.58	107.02	521	<b>ANDESITE DYKE</b> - Mainly dark green, fine grained, minor quartz-pyrite stringers subparallel to core axis and quartz veins with lenses of pyrite at 86° to C.A. Numerous fractures coated with calcite at various angles to C.A. Highly fractured at 103.24-103.32m, gougy fractures.	302688	96.58-98.00	1.42	0.015
				302689	98.00-100.00	2.00	<0.005
					stop		
107.02	108.70	511	<b>ALTERED ANDESITE DYKE</b> - Bleached, silicified, through-going pyritic fractures at subparallel to core axis. Lower contact gradational over 10 cm.		start		
				302690	107.02-108.70	1.68	<0.005
108.70	110.20		<b>SILICEOUS STOCKWORK-BRECCIA</b> - Light grey, numerous relict fragments. Mineralized with pyrite and brown sphalerite. White quartz veinlets at 80° to C.A. throughout. Relatively sharp lower contact at 50° to C.A.	302691	108.70-110.20	1.50	0.070
110.20	113.70	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, some bleaching & narrow pyrite lenses for short intervals. Pyrite lenses at 111.85m are at 62° to C.A. Barren white quartz vein at 111.02-111.18m at 85° to C.A. Abundant sphalerite below quartz vein to 111.42m.	302692	110.20-111.00	0.80	0.020
				302693	111.00-111.90	0.90	0.100
				302694	111.90-113.70	1.80	0.015
113.70	116.10	411	<b>ALTERED DACITIC TUFF</b> - Light brown, fine grained matrix with lighter grey lapilli fragments. Lower contact gradational over about 15 cm.	302695	113.70-115.00	1.30	0.085
				302696	115.00-116.10	1.10	0.330

# MOUNT HOPE RESOURCES CORPORATION

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SECTION: 30038N

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DDH#: HS97-07

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
116.10	117.92	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, highly fractured between 116.87-117.14m, 30° to C.A. White calcite. Minor 11mm wide quartz veinlets at 87° to C.A. Lower contact sharp along gougy calcite filled fractures at 58° to core axis.	302697	116.10-117.92	1.82	0.020
117.92	122.20	412	<b>MODERATELY ALTERED DACITIC LAPILLI TUFF</b> - Fine grained brownish matrix common throughout between light grey diffuse fragments. Irregular pyrite lenses and stringers common which increase toward lower contact. Lower contact gradational over 20 cm.	302698	117.92-119.50	1.58	0.250
				302699	119.50-121.00	1.50	0.290
				302700	121.00-122.20	1.20	0.130
122.20	129.50		<b>SILICEOUS STOCKWORK-BRECCIA</b> - Intensely altered, quartz stringers, hairlines and veins common. White quartz veins, for example, 123.92-123.97m is at 87° to C.A. and contains pyrite lenses up to 5mm in length. Sphalerite is common along quartz-chlorite veinlets at about 60° to C.A. Sphalerite is also contained in irregular veinlets at 15° to C.A. at 126.80. Gradual lower contact over about 1 metre.	302701	122.20-123.75	1.55	0.085
				302702	123.75-125.00	1.25	0.210
				302703	125.00-126.50	1.50	0.075
				302704	126.50-128.00	1.50	1.160
				302705	128.00-129.00	1.00	0.315
				302706	129.00-130.00	1.00	0.065
129.50	138.40	421	<b>DACITIC NODULAR LAPILLI TUFF</b> - Dark brown fine grained matrix with light grey 1-2 cm rounded nodules. Larger fragments become more common, but still rare, below 133m up to >10 cm in length. These larger fragments contain disseminated pyrite. (The larger fragments appear to have been altered more readily than the matrix, nodules or smaller fragments.) Lower contact slightly chilled and sharp at 56° to C.A.				
138.40	145.37	521	<b>ANDESITIC TUFF</b> - Dark green, fine grained, upper contact is chilled margin for 10 cm which is highly fractured. Pyrite-chlorite veinlets with biotite margins at 65° and subparallel to core axis. Very uniform throughout. Lower contact also chilled margin for 8 cm. Contact sharp at 25° to C.A.				
145.37	170.52	421	<b>DACITIC NODULAR LAPILLI TUFF</b> - Dark grey matrix (not biotitic) with small uniform nodules averaging about 1 cm in diameter, occasionally lapilli fragment up to 6 cm in length. Minor bleaching and epidote clots at 155.30m. Matrix 154.25-160.30m is distinctly brown (biotite alteration.)				

# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

SECTION: 30038N

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DDH#: HS97-07

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			<p><i>Minor quartz veinlets with pyrite at 40° to C.A. Gougy fractures at 169.10-169.21m at 25° to C.A. Quartz veinlet with minor sphalerite at 169.98, 2 cm wide at 85° to C.A.</i></p> <p><i>Lower contact sharp at 70° to C.A.</i></p>				
170.52	171.29	521	<p><b>ANDESITIC DYKE</b> - Dark green, fine grained but also contains abundant hornblende phenocrysts. Chlorite veinlets common at 36° to C.A. more basaltic than andesitic.</p>				
171.29	175.76	421	<p><b>DACITIC NODULAR LAPILLI TUFF</b> - Dark brown biotitic, fine grained matrix with regular rounded nodules and less common elongate fragments. Fragment elongation at 70° to C.A.</p> <p>Core faulted and broken 175.20-175.50m with quartz veinlets at 15° to C.A. Traces of pyrite with quartz veining.</p> <p><b>END OF HOLE 175.76m (576 ft)</b></p>				



# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

**SECTION:** 30012N

**Diamond Drill Log**

**DDH#:** HS97-08

Northing: 30012.00N  
 Easting: 30882.00E  
 Elevation: 943m  
 Azimuth: 050°  
 Inclination: -55°  
 Grid: Aranlee  
 Length (m): 104.24m  
 Core size: NQ-2  
 Contractor: F. Boisvenu  
 Drill Type: Boyle 37

Drill Hole survey		
Method: <u>Acid</u>		
Azimuth	Dip	Depth
050°	-55°	

Property: Hotspring  
 NTS: 92G9+16  
 Claim: Hotspring 7  
 Date Started: Sept.30/97 NS 9:30pm  
 Date Completed: Oct.4/97 NS 10pm  
 Logged by: W.B.Lennan & J. T. Shearer

Purpose:

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.05	9	Casing/Andesitic Dyke rubble				
3.05	7.70	521	<b>ANDESITE DYKE</b> - Massive, very fine grained with epidote patches and veining. Fracturing primarily 15-20° to C.A. and 35-40°. Strong limonite on fracture and coarse pyrite coatings on unweathered fracture.	302708	3.05-5.00	1.95	0.020
				302709	5.00-6.50	1.50	0.010
				302710	6.50-7.70	1.20	0.010
7.65	7.70	008	<b>FAULT CONTACT</b> - between Andesite Dyke and Siliceous Felsic Lapilli (Fragmental) Tuff. Fault at 65° to C.A.				
7.70	13.12	314	<b>SILICEOUS FELSIC LAPILLI (FRAGMENTAL) TUFF</b> - Grey to bluish grey, pervasively silicified. Appears to be fine grained with ghosts of larger fragments mainly from 10.50m on. From 9.90-10.0m unit has a slight banded appearance at 60-65° to C.A. Silicified & pyritized hairline fractures mainly parallel to fabric. Dark coloured mineral (sphalerite?) along with pyrite form dendritic patterns along some fractures. From 10.75-11.08m a 3.0-3.5 cm thick white quartz vein cut C.A. at 15-18°.	302711	7.70-9.00	1.30	0.040
				302712	9.00-10.50	1.50	0.050
				302713	10.50-12.00	1.50	0.055
				302714	12.00-13.12	1.12	0.035
			Lower contact at 13.12m at 45° to C.A.				
13.12	20.60	521	<b>ANDESITE DYKE</b> - Dark green, very fine grained to weakly porphyritic. Strongly chlorite altered and moderately to strongly magnetic. Epidote occurs as 1 cm to 2 cm diameter patches (rare) and in veinlets. Coarse pyrite as fracture coatings, minor disseminated pyrite.	302715	13.12-14.50	1.38	0.020
				302716	14.50-15.30	0.80	0.010
				302717	15.30-15.75	0.45	0.020
				302718	15.75-17.75	2.00	0.020
			Two 1.5 cm thick quartz veins 15.30-15.75m. At 15.5m at 80° to C.A. and at 15.70m at 80° to C.A. with very coarse crystalline pyrite (cubes to 5mm across).	302719	17.75-19.00	1.25	0.010
				302720	19.00-20.60	1.60	0.050

# MOUNT HOPE RESOURCES CORPORATION

1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

SECTION: 30012N

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DDH#: HS97-08

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Lower contact with at approx. 30° to C.A. contorted contact zone.				
20.60	24.60	312	<b>SILICEOUS FELSIC FRAGMENTAL (LAPILLI) TUFF</b> - Light grey, massive, pervasive silicification with minor quartz veining. Fine grained pyrite along fractures and as rims around "ghostly" fragments. Brownish colour with pyrite along hairline fractures appear to be secondary biotite.	302721	20.60-22.00	1.40	<0.005
				302722	22.00-23.50	1.50	<0.005
				302723	23.50-24.60	1.10	<0.005
24.60	25.64	521	Possible sphalerite at 24.50m. Lower contact at 24.50 at 55-60° to C.A. <b>FELDSPAR PORPHYRITIC ANDESITE DYKE</b> - Dark grey to greenish grey porphyritic texture with white feldspar phenocrysts to 2mm diameter. Very massive with minor fracturing and rare silicified fractures with pyrite.	302724	24.60-25.64	1.05	<0.005
25.64	28.50	312	Lower contact with Siliceous Felsic Tuff at 25.60m at 35° to C.A. <b>SILICEOUS FELSIC FRAGMENTAL (LAPILLI) TUFF</b> - From 25.64 to 27.00m unit is dark bluish grey, very fine grained, pervasively silicified and veined with pyritic veins to 2mm thick mainly at 5-25° to C.A. From 27.00m on, fragmental texture is more prominent but fragments remain as ghostly outlines. Two primary sets of pyritized veins at 10-25° to C.A. at 60° to C.A.	302725	24.64-27.00	1.36	<0.005
			Fracturing becomes more strongly weathered with limonite staining permeating fracture walls leaving rust stained envelopes.	302726	27.00-29.00	2.00	<0.005
28.50	28.70	398	<b>Faulted and brecciated</b> Siliceous Fragmental Tuff at approx. 25° to C.A.				
28.70	37.70	312	<b>SILICEOUS FELSIC FRAGMENTAL (LAPILLI) TUFF</b> - Well pyritized along fractures as from 25.64-28.50m. Still strongly weathered with limonite staining on most fractures. Weak chlorite alteration and rare brownish patches showing secondary biotite.	302727	29.00-31.00	2.00	<0.005
				302728	31.00-33.00	2.00	0.010
				302729	33.00-34.70	1.70	<0.005
34.70	35.66	521	From 34.00-34.70m unit takes on a mottled appearance with purplish brown nodules? with secondary biotite. Rapid gradational contact with Andesite Dike. no orientation of contact available. <b>ANDESITE DYKE</b> - Dark grey green, fine grained crystalline, strongly fractured at 65° to C.A. Epidote and pyrite along fractures.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
35.66	37.50	598	<b>FAULT ZONE</b> in Andesite Dyke. Very limonite stained and broken core. Dyke material is crusted and soft throughout. Faulting possibly 5-10° to C.A. Orientation is uncertain.	302730	34.70-35.66	0.96	0.025
				302731	35.66-37.50	1.84	0.010
37.50	41.78	521	<b>ANDESITE DYKE</b> - As described from 34.70-35.66m. From 40.0-41.0m core broken due to dominant fracturing at 3-5° to C.A.	302732	37.50-39.00	1.50	<0.005
				302733	39.00-41.00	2.00	<0.005
			Epidote and pyrite on fractures.	302734	41.00-41.70	0.78	<0.005
41.78	46.80	411	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Dark grey to purplish grey coarse grained lapilli to fragmental tuff. Pervasively silicified. Lapilli and/or fragments to 2 cm diameter. Moderately chloritized and brownish secondary biotite impart greenish to brownish purple patches throughout section. Relict banding at 65° to C.A.	302735	41.78-43.50	1.72	<0.005
				302736	43.50-45.50	2.00	<0.005
			Purplish, slightly finer grained. Becoming much coarser grained with fragments to 2 cm diameter. Weak nodular texture from 46.00-46.80m. Increased silicification & veining. contact with small andesite dyke at 46.80m at 50° to C.A.	302737	45.50-46.80	1.30	<0.005
46.80	46.97	521	<b>ANDESITE DYKE</b> - Small, very fined grained, dark charcoal grey green. Lower contact at 50° to C.A.	302738	46.80-46.97	0.17	<0.005
46.97	49.45	411	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Mottled greenish to purplish grey with white quartz flooding. Very coarse grained with fragments to 3 cm x 2 cm. Strong quartz flooding and veining. No strong mineralization is associated with this flooding.				
			Strong chlorite alteration within quartz veins and of fragments surrounded by a quartz matrix. Purplish biotite alteration intermixed with chlorite alteration.	302739	46.97-48.50	1.53	<0.005
			Lower contact with Andesite Dyke at 70° to C.A.	302740	48.50-49.45	0.95	<0.005
49.45	50.15	521	<b>ANDESITE DYKE</b> - Small dyke - Greenish charcoal grey, very fine grained to a weakly developed porphyritic texture with clouded feldspar phenocrysts. Lower contact at 65° to C.A.	302741	49.45-50.15	0.70	<0.005
50.15	52.70	411	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Dark grey to purplish grey. Quartz zone from 50.15-50.25m and 52.50-52.70m. Coarse grained for the most part with finer grained section from 51.50-52.10m. Lower contact with andesite dyke at 52.70m at 80° to C.A.	302742	50.15-51.50	1.35	<0.005
				302743	51.50-52.70	1.20	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
52.70	53.07	521	<b>ANDESITE DYKE</b> - Dark greenish charcoal grey. Very fine grained massive. Lower contact at 53.07m at 15° to C.A.	302744	52.70--53.07	0.37	<0.005
53.07	53.58	421	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Dark grey greenish to purplish. Coarse grained. Strong chlorite alteration. Lower contact at 53.58m with Andesite Dyke at 65° to C.A.	302745	53.07-53.58	0.51	<0.005
53.58	54.42	521	<b>ANDESITE DYKE</b> - Same as from 52.70-53.07m. Lower contact at 75° to C.A.	302746	53.58-54.42	0.84	<0.005
54.42	54.78	411	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Small slice caught up in dyke? Dark purplish grey, coarse grained with light grey fragments. Lower contact with Andesitic Dyke at 85°? to C.A.	302747	54.42-54.78	0.36	<0.005
54.78	79.30	521	<b>ANDESITE DYKE</b> - Dark charcoal grey to greenish, massive with textures verging from fine grained, weakly porphyritic with white cloudy feldspar phenocrysts (1-2mm diameter) to fine grained crystalline. Strongly magnetic and chlorite altered. Very minor veining with very weak, if any silicification. Fracturing is generally weak and primarily at 15-25° to C.A. and 55° to C.A. 2mm thick epidote veinlet running length of core at 3-5° to C.A. from 58.20-59.00m. Pyrite coats most fracture planes. Strong epidote patch at 67.30m. Small pyritized section from 64.10-64.50m. From 66.58-66.80m, grade into a small section of nodular tuff. Epidote from 67.30-67.60m. Epidote and pyrite vein at 3° to C.A. from 72.00-72.08m. Small pyritized and chlorite altered vein at 77.70-77.80m at 45° to C.A. At 77.30m, green to purplish biotite altered Dacitic Tuff. No sharp contact.	302748	54.78-57.00	2.22	0.010
				302749	57.00-59.00	2.00	
				302750	59.00-61.00	2.00	
				302751	61.00-63.00	2.00	
				302752	63.00-65.00	2.00	
				302753	65.00-67.00	2.00	
				302754	67.00-69.00	2.00	
				302755	69.00-71.00	2.00	
				302756	71.00-73.00	2.00	
				302757	73.00-75.00	2.00	
79.30	81.94	432	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - From 79.30-79.80m - unit has a purplish colour and Nodular Tuff texture. From 79.80m the unit grades to creamy grey colour. The core is very broken up due to fractures at 3-10° to C.A. with quartz and some carbonate coating. Silicification is moderate with 2-3% pyrite along vein and fragment margins. Possibly sphalerite at 79.90m. Lower contact with Andesite Dyke at 81.94m at 40° to C.A.	302758	75.00-77.00	2.00	
				302759	77.00-79.30	2.30	0.005
				302760	79.30-81.00	1.70	0.025
				302761	81.00-81.94	0.94	0.080

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
81.94	82.37	521	<b>ANDESITE DYKE</b> - Dark greenish charcoal grey, very fine grained. hairline silicified fractures with 1-2mm bleached alteration envelopes. Weakly magnetic and strongly chloritized. Lower contact at 60° to C.A. (sharp). Contact pyritized.	302762	81.94-82.37	0.43	0.015
82.37	83.10	412	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Fine to medium grained equigranular with mostly crystal fragments. Grey with white argillic altered crystals (feldspar?). Chlorite alteration on fracture surfaces. From 82.55-82.62m a 4 to 6 cm wide quartz vein with pyrite, epidote, chlorite and specks of sphalerite? cuts C.A. at 60°. lower contact is sharp at 75° to C.A.	302763	82.37-83.10	0.73	0.155
83.10	94.40	521	<b>ANDESITE DYKE</b> - Dark charcoal grey to dark greenish grey. weak to moderately magnetic. Strong chlorite alteration. From 83.10-84.70m quartz and quartz epidote veining mainly 70-75° to C.A. At 84.43m a 2 cm thick quartz vein at 65° to C.A. carries coarse crystalline pyrite in the centre of the vein. Crystals to 3mm across occur in the vein.	302764	83.10-84.70	1.60	0.010
			From 84.70 onwards, veining and mineralization drops off significantly. an epidote vein at 85.18m cuts C.A. at 50° and at 87.48-87.52m occur as a large patch.	302765	84.70-86.00	1.30	<0.005
				302766	86.00-88.00	2.00	0.015
				302767	88.00-89.40	1.40	0.005
			From 89.70-90.41m, Andesite Dyke is intensely quartz carbonate veined with the colour changing to a bleached light grey green. Veining and fracturing primarily 60° to C.A. Coarse pyrite and chlorite alteration on fractures as described above. Altered zone stops abruptly, returns to dark greenish charcoal grey, massive Andesite Dyke. At 91.50m a 3 cm thick quartz vein at 85° to C.A. has a 0.5 cm thick core of coarse crystalline pyrite. A second 3 cm thick quartz vein with 1.0-1.5 cm thick coarse pyrite core at 93.19m. epidote patches from 93.45-94.00m.	302768	89.40-90.41	1.01	0.010
				302769	90.41-92.00	1.59	0.010
				302770	92.00-94.00	2.00	<0.005
				302771	94.00-94.90	0.90	<0.005
94.90	95.567	598	<b>MAJOR FAULT ZONE - In Andesite Dyke</b> - Very broken core with clay gouge incorporating brecciated dyke fragments. upper contact orientation unknown. Lower contact sharp at 40° to C.A. Small cubic pyrite crystal in gouge. Measurements estimated as significant lost core.	302772	94.90-95.56	0.66	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
95.56	102.50	521	<b>ANDESITE DYKE</b> - Very broken core as influenced by major faulting. Recovery approx. 60%. Measurements are estimated. Strong chlorite alteration, coarse pyrite in quartz carbonate, veined rubble. 1 cm thick quartz carbonate vein with chlorite at 30° to C.A. From 101.35-102.50m, dyke rocks shows open shear stress fractures. From 102.10m, core is very broken up Drilling is very difficult. Rock chips indicate contact of Andesite Dyke with purplish brown Dacitic-andesitic lapilli tuff is at approx. 102.50m. rubble core. No orientation with C.A. APPARENT.	302773	95.56-97.00	1.44	<0.005
				302774	97.00-99.00	2.00	<0.005
				302776	99.00-101.00	2.00	<0.005
				302777	101.00-102.50?	1.50	0.020
102.50	104.24	498	<b>MAJOR FAULT ZONE In Dacitic-Andesitic Lapilli tuff</b> - Typical purplish brown biotite altered and silicified tuff. pervasive silicification with 1-3% pyrite along fractures and veinlets. Core is mostly angular, gravelly textured with clay-carbonate coating. Abundant slickensides on fracture surfaces. 65% recovery in sampled interval. 65% recovery in sampled interval. 104.24m: End of Hole (E.O.H.)				
				302778	102.50-103.00	0.50	0.090
				302779	103.00-104.24	1.24	0.070

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**SECTION:** 29970N

**Diamond Drill Log**

**DDH#:** HS97-09

Northing: 29970.00N  
 Easting: 30774.00E  
 Elevation: 975m  
 Azimuth: 0  
 Inclination: -57°  
 Grid: Aranlee  
 Length (m): 231.65m  
 Core size: NQ-2  
 Contractor: F. Boisvenu  
 Drill Type: Boyle 37

Drill Hole survey		
Method: <u>Acid Tube</u>		
Azimuth	Dip	Depth
050	-57°	0
050		115.82
050		231.65

Property: Hotspring  
 NTS: 92G9116  
 Claim: Hotspring 7  
 Date Started: Oct. 6/97 9 p.m.  
 Date Completed: Oct. 12/97 NS 3 a.m.  
 Logged by: W.B.Lennan & J. T. Shearer

Purpose:

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.05	9	Casing/Overburden				
3.05	11.80	319	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Medium bluish grey, fine to very fine grained with isolated angular fragments. intensely and pervasively silicified with light grey to cream coloured bleached sections of darker grey rock along fracture forming, bleached envelopes and large bleached patches were numerous envelopes coalesce. Strong limonite alteration along fractures primarily parallel to or 15° to C.A. The limonite permeates fracture walls and forms rusty envelopes overprinting bleached patches. Minor veining carries 1% pyrite and <0.5% sphalerite? in places. (at start of hole from 3.05m to 4m only 45% recovery) From 10.10-11.30m unit is intensely fractured at various angles and bleached due to coalescing alteration envelopes. Overprinted with beige limonite stained. Lower contact at 20-25° to C.A.	302780	3.05-4.00	0.95	0.110
				302781	4.00-6.00	2.00	0.090
				302782	6.00-8.00	2.00	0.095
				302783	8.00-10.00	2.00	0.145
				302784	10.00-11.80	1.80	0.080
11.80	13.80	521	<b>ANDESITE DYKE</b> - Dark greenish grey, fine grained to weakly porphyritic. From 12.70-13.10m quartz veining, with specks of sphalerite?, at 13.00m at 30° to C.A. At 13.80m contacts Siliceous Felsic Tuff at 33° to C.A.	302785	11.80-13.80	2.00	0.045
13.80	15.40	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Bluish grey to creamy white in strongly silicified and bleached sections. Strong limonite staining on weathered fractures. Very fine grained pyrite disseminated throughout but generally <1%. Pyrite mainly concentrated along fractures.	302786	13.80-15.40	1.60	0.095

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DDH#: HS97-09

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
15.40	17.42	822	<b>ANDESITE TUFF</b> - Dark brownish grey with porphyritic texture. Texture is due to abundance of angular feldspar fragments which rarely exceed 2mm diameter. Weakly magnetic. Pyrite is weakly disseminated throughout but is primarily observed as flat coatings on fracture planes. At 17.42m contacts Siliceous Felsic Tuff at 35° to C.A.	302787	15.40-17.42	2.02	0.045
17.42	41.76	311	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Bluish grey to patchy bleached creamy coloured unit as from 13.80-15.40m. Very fine grained, pervasively silicified and bleached to creamy white where alteration envelopes along zones of fracturing coalesce. Pyrite is fine grained and is confined mainly to fractures but is also disseminated throughout unit (although weakly - <1%). Strong bleaching and limonite overprinting from 19.00-19.60m and from 20.00-20.80m. Dominant fracturing at 62° to C.A. Intense cream coloured bleaching from 21.00-22.45m with limonite along weathered fractured. Bleached zones decrease significantly with only narrow 1-3mm alteration envelopes along silicified fractures. At 24m 1 cm wide vuggy, pyritized quartz vein at approx. 45° to C.A. Strongly bleached and limonite stained section of unit from 25.15-25.65m. Sphalerite and pyrite at 25.70m in veinlets. Fine specks of sphalerite? at 31.00m. Intensely bleached sections overprinted with limonite staining. Broken core with 5% core loss. Pervasive silicification. Minor sulphides <0.5%. Same as from 32.00-33.50m Returns to bluish grey pervasively silicified Felsic Tuff. Most original textures are obliterated. Creamy coloured bleached patches from 35.33-36.10m. Alternating sections of bluish grey tuff with cream coloured bleached sections, weak chlorite alteration on fractures from 37.70-38.10m. Possible minor sphalerite in 2.5 cm quartz vein at 39.26m	302789 302790 302791 302792 302793 302794 302795 302796 302797 302798 302799 302800 302801	17.42-19.00 19.00-21.00 21.00-23.00 23.00-25.00 25.00-27.00 27.00-29.00 29.00-31.00 31.00-32.00 32.00-33.50 33.50-34.60 34.60-36.00 36.00-38.00 38.00-40.00	1.58 2.00 2.00 2.00 2.00 2.00 2.00 1.00 1.50 1.10 1.40 2.00 2.00	0.040 0.035 0.035 0.110 0.095 0.120 0.255 0.210 0.220 0.395 0.165 0.145 0.255



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			As from 36.00-40.00m.	302802	40.00-41.76	1.76	0.145
41.76	64.87	312	At 41.76m unit subtly changes to more prevalent bluish grey fine grained tuff with an increase in quartz veining and with a slight increase in pyrite content.	302803	41.76-43.00	1.24	0.575
			<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Bluish grey, fine grained. Most original textures have been obscured by pervasive silicification and modest quartz veining. Pyrite content is weak but is greater than in previously described section of this unit. Pyrite is found as both coarse and fine grained patches within narrow quartz veins and as fracture coatings. Chlorite alteration is weak and occurs primarily as fracture coatings.	302804	43.00-45.00	2.00	0.470
			Broken limonite stained core and bleached section from 44.07-44.70m. Fracturing dominantly 75° to 85° to C.A.				
			Small "ghostly" veined section from 46.06-46.50m. Pyrite in 2mm thick quartz vein at 48.90m at 45° to C.A.	302805	45.00-47.00	2.00	0.145
			Dominant fracturing 70°-85° to C.A.	302806	47.00-49.00	2.00	0.180
			Pyrite mineralization along vein 3mm thick at 25-30° to C.A. at 52.42m. At 52.95m - unit is bleached and intensely fractured with strong limonite staining.	302807	49.00-51.00	2.00	0.210
			Bleached & broken felsic lapilli tuff continues with strong fracturing 5-10° to C.A. Less broken sections of bleached tuff. Moderate chlorite alteration along fractures. Bleached and limonite stained alteration envelopes along fractures.	302808	51.00-53.00	2.00	0.350
				302809	53.00-53.95	0.95	0.195
				302810	53.95-56.00	2.05	0.125
				302811	56.00-57.60	1.60	0.070
			Return of bluish grey siliceous felsic tuff with more sporadic bleached envelopes along fractures. Fine grained pyrite <1% as disseminations and along fractures. Patch of veining and bleaching from 58.40-58.73m with pyrite or sphalerite?	302812	57.60-59.00	1.40	0.250
				302813	59.00-61.00	2.00	0.070
				302814	61.00-63.00	2.00	0.115
			Fine grained amorphous grey, pervasively silicified felsic tuff. Slight "porphyritic" texture with scattered 2-3mm diameter sericite altered feldspar crystal fragments. Subtle wavy banding with 1.0-1.5% very fine grained pyrite as disseminations, along banding planes and fractures oriented at 35-45° to C.A. From 64.70-64.87m, bleached quartz flood zone with pyrite and possibly very fine grained sphalerite. Sharp lower contact at 67° to C.A.	302815	63.00-64.87	1.87	0.075

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
64.87	68.30	521	<b>ANDESITE FELDSPAR PORPHYRY DYKE</b> - Dark greenish grey massive porphyritic dyke with altered feldspar phenocrysts to 3mm diameter. Moderate chlorite altered and weakly silicified. Weakly magnetic. Thin & scattered 1-2mm bleached alteration envelopes along silicified fractures. Pyrite coatings on most fractures. Broke core from 65.50-56.84m. 90% core recovery.	302816	64.84-66.00	1.13	0.010
			From 66.30-66.80m feldspar phenocrysts occur as "ghostly" features with indistinct crystal edges.	302817	66.00-67.00	1.00	0.005
			Lower contact at 68.30m at 55° to C.A.	302818	67.00-68.30	1.30	<0.005
68.30	73.46	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - darker bluish grey, fine grained, slightly wavy banded texture. Pervasive intense silicification and weak chlorite alteration. Some sericitic alteration of felsic "feldspar" crystal fragments. Quartz veining with increased pyrite and minor sphalerite mineralization particularly from 68.88-69.00m at 45-50° to C.A. Quartz flooding from 69.27-69.85m. Coarse pyrite mineralization at 69.30m in quartz vein. Bleached zones with strong limonite overprinting from 70.00-70.50m. More pervasive silicification and less bleaching.	302819	68.30-69.00	0.70	0.295
			As above. Possible sphalerite mineralization at 73.30m in quartz veined area at 35° to C.A. at 73.46 contact with chlorite and epidote altered Andesite Tuff.	302820	69.00-71.00	2.00	0.125
				302821	71.00-72.00	1.00	0.090
				302822	72.00-73.46	1.46	0.065
73.46	74.64	821	<b>ANDESITE TUFF?</b> - Dark mottled greenish grey. Cream coloured stretched? feldspar fragments are strongly altered and give a banded appearance to unit at 70-75° to C.A. Strong chlorite alteration. Chlorite altered mafic laths oriented along banding as noted above. Strongly magnetic. Minor epidote as replacements around rims of mafic fragments. Lower contact at 74.65m oriented at approx. 75° to C.A.	302823	73.46-74.64	1.18	0.020

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
74.64	87.86	312	<b>SILICEOUS FELSIC TUFF</b> - Pervasively silicified unit which is medium bluish grey in colour. Fine grained. Most fragments are obliterated by the strong silicification. Fracturing and veining is not intense and is primarily oriented at 45° to C.A. Fine grained pyrite is disseminated throughout but coarser grained pyrite occurs on veinlet margins and along silicified fractures. Weak chlorite alteration and rare small patches of epidote. Bleached zoned overprinted with limonite staining from 77.44-77.85m. Some core loss from 78.00-78.50m. Darker grey with increased pyrite content (2-3%) along contorted veins. Banded texture more prominent at 40° to C.A. Pyrite diminishes to <1%. Core more broken on small cream coloured bleached sections with limonite staining. From 84.90-85.10m slight porphyritic texture with white argillic altered feldspar? crystal fragments. Coarse pyrite on fractures from 86.47-87.02m and from 87.70-87.81m. Possible sphalerite mineralization as black patches of dust sized pyrite grain clusters. At 87.86m contact at 60° to C.A.	302824	74.64-76.00	1.36	0.125
				302825	76.00-78.00	2.00	0.190
				302826	78.00-79.80	1.80	0.140
				302827	79.80-80.40	0.60	0.295
				302828	80.40-82.00	1.60	0.105
				302829	82.00-84.00	2.00	0.130
				302830	84.00-86.00	2.00	0.045
			302831	86.00-87.86	1.86	0.090	
87.86	89.56	521	<b>ANDESITE DYKE</b> - Dark green-grey fine grained crystalline with small weakly porphyritic sections. Strongly magnetic and intensely chloritized. Minor fracturing. Small quartz flood zone or a slice of Siliceous Felsic Tuff from 89.21-89.37m.	302832	87.86-89.56	1.70	0.040
89.56	94.40	311	<b>SILICEOUS FELSIC TUFF</b> - Light blue grey, very fine grained with "porphyritic" texture with sericite altered feldspar crystal fragments. Pervasive silicification with minor veining. Banded texture from 92.20-92.40m. From approx. 92.80-93.30m core is broken due to shearing. shear zone at 93.23m at 25° to C.A. Limonite stained and with wavy epidote and chlorite. Lower contact at 94.40m at 37° to C.A.	302833	89.56-91.00	1.44	0.025
				302834	91.00-93.00	2.00	0.020
				302835	93.00-94.40	1.40	0.030

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
94.40	95.05	521	<b>ANDESITE DYKE</b> - Sharp contact. Dark green grey, very fine grained crystalline. Small weakly porphyritic sections. Quartz flooded bleached zone or a slice of Siliceous Felsic Tuff from 94.71-94.84m. Minor pyrite. Lower contact at 95.05m at 45° to C.A.	302836	94.40-95.05	0.65	
95.05	106.10	311	<b>SILICEOUS FELSIC TUFF</b> - Massive appearance, light bluish grey, pervasively silicified tuff with "porphyritic" texture showing widely spaced altered feldspar crystal fragments in white against the grey amorphous matrix. minor pyrite mineralization. Alteration of "phenocrysts" is sericite and K-spar? Coarse pyrite on 2-3mm wide veinlet. Banding at 103.50m at 53° to C.A. Increased pyrite mineralization along veinlets and silicified fractures. Sericitic envelopes along fracture edges. As from 104.00-105.00m Lower contact at 40° to C.A.	302837	95.05-96.00	0.95	
				302838	96.00-98.00	2.00	
				302839	98.00-100.00	2.00	
				302840	100.00-102.00	2.00	
				302841	102.00-104.00	2.00	
106.10	106.55	521	<b>ANDESITE DYKE</b> - Dark charcoal grey with sparse porphyritic texture in a fine grained crystalline matrix. phenocrysts are ghosts of feldspar crystals that have been argillically and chlorite altered. Silicification has occurred along fractures leaving bleached narrow (1mm) envelopes. Lower contact at 40° to C.A.	302842	104.00-105.00	1.00	
				302843	105.00-106.10	1.10	
				302844	106.10-106.55	0.45	0.020
106.55	108.00	312	<b>SILICEOUS FELSIC TUFF</b> - Light bluish grey as in previous section. More intensely fractured and quartz flooded, particularly from 107.20-108.00m. 1-2% pyrite and dark specks of sphalerite? - shear - small shear at 15° to C.A. at 107.56m. Broken core and possible Fault Zone from 107.82-108.00m.	302845	106.55-108.00	1.45	0.065
108.00	108.42	521	<b>ANDESITE DYKE</b> - Small dark greenish grey fine grained weakly porphyritic dyke. Ghostly feldspar phenocrysts are widely spaced. Moderately magnetic with strong chlorite alteration. Minor pyrite. At 108.42m contacts Siliceous Felsic Tuff at 40° to C.A. Sharp contact.	302846	108.00-108.42	0.42	0.010

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
108.42	122.00	312	<b>SILICEOUS FELSIC TUFF</b> - Medium bluish grey, fine grained and pervasively silicified. Chlorite alteration along pyritized fractures. Sericitic alteration along some fractures and of felsic fragments (feldspar?).				
			Well mineralized section with pyrite 2-3% along fractures running roughly parallel to C.A. (3-10°) and at 40° to C.A.	302847	108.42-110.00	1.58	0.045
			Well mineralized as above. More pervasive quartz flooding from 111.00-112.00m.	302848	110.00-112.00	2.00	0.085
			Mineralization diminishes to 1-1.5% pyrite. Quartz flooding is gone.	302849	112.00-114.00	2.00	0.085
			"Porphyritic" like texture returns with sericite and argillic altered feldspar? crystal fragments. Pyrite is commonly found as replacements? in the altered fragments.	302850	114.00-116.00	2.00	
			As from 114.00-116.00m.	302851	116.00-118.00	2.00	
				302852	118.00-120.00	2.00	
				302853	120.00-122.00	2.00	
122.00	124.55	313	Marked increase in pyrite content ≈3% although patchy. coarse granular pyrite in quartz veins to 1 cm thick. No visible sphalerite.	302854	122.00-123.00	1.00	
			As above.	302855	123.00-124.00	1.00	
				302856	124.00-125.00	1.00	
124.55	124.60	398	<b>Small Fault Zone</b> - White clay gouge with fragments of siliceous tuff at 80° to C.A.				
124.60	128.50	313	<b>SILICEOUS FELSIC TUFF</b> - As previously described. Strongly pyritized (5%). Contorted veins from 125.43-125.88m.	302857	125.00-125.00	1.00	
			Coarse veinlets to 1.5 cm across from 126.225-126.47m	302858	126.00-127.00	1.00	
			Pyrite content gradually decreases in intensity. Less veining and veining carries slightly finer grained pyrite. (1-2% pyrite)	302859	127.00-128.50	1.50	0.025
128.50	131.00	311	<b>SILICEOUS FELSIC TUFF</b> - Same bluish grey unit and texture as previously described. Pyrite content has decreased to an average of 1-2%.	302860	128.50-130.00	1.50	0.030
				302861	130.00-131.00	1.00	0.030
131.00	135.58	312	<b>SILICEOUS FELSIC TUFF</b> - Light bluish grey with increased fracturing. Pyrite veining and argillic alteration along fractures at 40-45° to C.A. Pyrite is coarse grained along the veinlets. Weak chlorite alteration.	302862	131.00-132.50	1.50	0.020
				302863	132.50-134.00	1.50	0.020
			Lower contact at 135.58m at 60° to C.A.	302864	134.00-135.58	1.58	0.050

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
135.58	135.86	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, crystalline, small dyke. Magnetic with strong chlorite alteration 2-3% pyrite mainly as fracture coatings. At 135.86, lower contact at 80° to C.A.	302865	165.58-165.86	0.28	
135.86	136.40	313	<b>SILICEOUS FELSIC TUFF</b> - Dark bluish grey, very well mineralized with pyrite and magnetic pyrrhotite ≈10% in contort vein network. No visible sphalerite. At 136.40m contacts Andesite Dyke at 45-50° to C.A. unit has moderate <u>epidote</u> throughout.	302866	135.86-136.40	0.54	
136.40	141.00	521	<b>ANDESITE DYKE</b> - Fine grained crystalline with a weak porphyritic texture. Small 1-2mm diameter feldspar phenocrysts. Strong chlorite alteration along veins & fractures and throughout unit. Epidote occurs along veins and forms speckled alteration envelopes along fractures. coarse pyrite coating along fracture planes. Weak to moderate strength magnetism. Lower contact at 80° to C.A.	320867	136.40-138.00	1.60	
				302868	138.00-140.00	2.00	
				302869	140.00-141.00	1.00	
141.00	143.74	312	<b>SILICEOUS FELSIC TUFF</b> - Medium bluish to mottled purplish grey unit. Purplish colouration due to secondary biotite. Intensely fractured and quartz veined. Coarse pyrite and epidote are common along fractures and veins. Dominant fracture orientations to C.A. are 43° and 70°. Quartz flooding imparts a banded appearance to unit at ≈55° to C.A. Lower contact at 65° to C.A.	302870	141.00-142.50	1.50	
				302871	142.50-143.74	1.24	
143.74	144.52	521	<b>ANDESITE DYKE</b> - Dark green-grey, fine grained crystalline or weakly porphyritic with very small mafic laths as phenocrysts. Intensely chloritized and moderately magnetic. Minor epidote.	302872	143.74-144.52	0.78	
144.52	150.12	311	<b>SILICEOUS FELSIC TUFF</b> - Light bluish grey, fine grained with alternating sections of banded textured rock to weakly "porphyritic" with widely spaced argillically altered feldspar? crystal fragments. Clay alteration along some fracture surfaces. Pyrite is less than 1%. Pervasively silicified and minor veining. Some epidote along silicified and pyritized fractures from 149.60-150.12m. At 150.12m, contacts Andesite Dyke at 28° to C.A.	302873	144.52-146.00	1.48	0.040
				302874	146.00-148.00	2.00	0.340
				302875	148.00-150.12	2.12	0.100

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
150.12	151.43	511	<b>SILICIFIED ANDESITE</b> - Very fine grained with bleached silicified fractures imparting sections of lighter green colour rather than normal dark green grey colour. From 150.72-150.93m a grey quartz vein or slice of Siliceous Felsic Tuff is incorporated into Dyke. Contacts are 30° to C.A. Quartz zone.	302876	150.12-150.72	0.60	0.030
				302877	150.72-150.93	0.21	0.090
				302878	150.93-151.43	0.50	0.035
151.43	156.80	312	<b>SILICEOUS FELSIC TUFF TO LAPILLI TUFF</b> - Light bluish grey, fine grained, pervasively silicified. moderate fracturing with quartz-carbonate fillings. Ghostly porphyritic texture with white argillically altered feldspar? fragments. lapilli fragments are observed again as ghostly grey fragments set in the grey siliceous matrix. Fragments are generally small (<1 cm diameter). Pyrite is primarily confined to fractures or coatings but content generally <1%. Minor epidote on fractures. Lower contact at 83° to C.A.	302879	151.43-153.00	1.57	0.030
				302880	153.00-155.00	2.00	0.060
				302881	155.00-156.80	1.80	0.070
156.80	157.32	521	<b>PORPHYRITIC ANDESITIC DYKE</b> - Dark green-grey with ghostly porphyritic texture. Slightly lighter coloured feldspar phenocrysts. Minor bleached envelopes along silicified fractures. Intense chlorite alteration. minor pyrite. Lower contact with Siliceous Felsic Tuff at 80° to C.A.	302882	156.80-157.32	0.52	0.030
157.32	162.42	312	<b>SILICEOUS FELSIC LAPILLI TUFF</b> - Light bluish grey coloured. Lapilli fragments more prominent although most are ghostly outlines in the grey siliceous matrix. Scattered occurrences of epidote around fragment rims and along fractures. Pyrite is generally approx. 1% but from 159.00m coarse pyrite occurs in vein systems approximately 50-70 cm apart. Rare green patches of Fuchite. Lower contact at 48° to C.A.	302883	157.32-159.00	1.68	0.035
				302884	159.00-160.00	1.00	0.095
				302885	160.00-161.00	1.00	0.040
				302886	161.00-162.00	1.00	0.040
				302887	162.00-162.42	0.42	0.055
162.42	169.40	412	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Light bluish grey, intensely silicified with coarse ghosts of lapilli fragments to 1.5 cm diameter. Small zones of purplish brown colour indicating secondary biotite patches. Patches of epidote at 162.51m and 167.90m. Purplish biotite altered zone from 163.30-163.70m.	302888	162.42-163.70	1.28	0.080

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Quartz flood zone from 163.70-166.0m with creamy white quartz matrix with pyrite, biotite and chlorite along fractures and around relic lapilli fragments. This gives unit a mottled banded appearance.	302889	163.70-165.00	1.30	0.045
			At 166.0m quartz flooding diminishes. Darker grey dacitic lapilli tuff with much less quartz flooding but more intense micro fracturing with increase in pyrite mineralization. Pyrite is medium to coarse grained along fractures and dusty sized around lapilli fragments.	302890	165.00-166.00	1.00	0.030
				302891	166.00-168.00	2.00	0.060
				302892	168.00-169.40	1.40	0.025
169.40	171.00	413	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Same units as above but with changes to darker grey wit intense pyrite mineralization to 5%. Dust pyrite gives the dark grey colour. Pervasive silicification leaves only ghostly remnants of lapilli fragments. Argillic alteration along fractures.	302893	169.40-171.00	1.60	0.045
171.00	174.14	412	<b>DACITIC-ANDESITIC LAPILLI (Nodular) TUFF</b> - Unit grade to a dark purplish colour. Lapilli fragments (angular) dominate over nodular fragments but subtle Nodular Texture persists. 2-3% pyrite around fragment rims.				
			Grades to a dark purple, fine grained equigranular tuff. At 174.14 strong bands of epidote occur at contact with Andesite Dyke at 73° to C.A.	302894	171.00-173.00	2.00	0.040
				302895	173.00-174.14	1.14	0.030
174.14	174.72	521	<b>ANDESITE DYKE</b> - Dark greenish grey, fine grained with "ghostly" porphyritic texture with faint feldspar phenocrysts to 2mm diameter. Minor veining and fracturing but epidote occurs on fractures that are present. Strongly magnetic. Minor pyrite.				
			Lower at 174.72m at 70° to C.A.	302896	174.14-174.72	0.58	0.025
174.72	179.66	412	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Medium grey coloured. <u>No</u> biotite alteration. Finer grained texture with primarily crystal fragments and small lapilli fragments (<1 cm diameter). Unit has a slightly banded porphyritic texture. Minor veining and fracturing, slightly increased sulphide (pyrite) content from 178.60-179.66m. Lower contact at approx. 65° to C.A.	302897	174.72-176.00	1.28	0.080
				302898	176.00-178.00	2.00	0.060
				302899	178.00-179.66	1.66	0.050



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
179.66	201.77	521	<b>MODERATELY SILICIFIED ANDESITE DYKE</b> - Dark green-charcoal grey. Fine grained crystalline with small sections where weak porphyritic texture is visible. Fractures are silicified and have bleached (narrow) alteration envelopes along the margins. Coarser crystalline pyrite occurs in the cores of some of the vuggy quartz veins. Epidote alteration is patchy as well as being along many fractures. Chlorite alteration is strong and pervasive.				
			Pyrite, chalcopyrite, galena and sphalerite. Epidote alteration and bleaching along fractures diminishes towards 186.00m.	302900	179.66-181.00	1.34	<0.005
				303001	181.00-183.00	2.00	<0.005
				303002	183.00-185.00	2.00	0.020
			Dark green grey unit continues to 193.00m where epidote veining and pyrite mineralization return. Mainly veining at 10-15° to C.A.	303003	185.00-186.00	1.00	0.020
				303004	193.00-194.00	1.00	0.010
			From 194.61-194.77m, small slice of purplish lapilli tuff incorporated into dyke. Upper contact at 85° to C.A., lower contact is 85° to C.A.				
			From 195.06-195.11m epidote fine with pyrite at 85° to C.A. Weak quartz-carbonate veining (hairline veinlets) with pyrite coatings throughout. Alteration (silicification) increases towards lower contact with Dacitic Tuff.				
			Shear at 90° to C.A. at 200.75m. From 200.75-201.77m dyke is altered and takes on sections of purplish colour similar to Dacitic Tuff unit then grades back to dark green colour. Lower contact at 60° to C.A.	303005	200.00-201.00	1.00	0.030
				303006	201.00-201.77	0.77	0.035
201.77	206.00	412	<b>DACITIC-ANDESITIC-LAPILLI TUFF (Nodular)</b> - Medium grey with purplish undertone. Fine grained to 202.90m then coarse grained lapilli fragments to 2 cm diameter appear. Pervasive silicification throughout. Occasional 10 cm sections form purplish biotite altered unit exhibit nodular texture. Pyrite is primarily found along veinlet margins as fracture coatings and around the rims of fragments. Content of pyrite is 1-2%.	303007	201.77-203.00	1.23	0.090
				303008	203.00-204.50	1.50	0.440
				303009	20450-206.00	1.50	0.185
206.00	225.37	413	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Same unit as described above but with increased pyrite content from 2-4% primarily along banding planes, in veinlets and fractures and around angular lapilli fragments.				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Most purplish biotite alteration has been removed by intense silicification. Quartz veining and argillic alteration. Weak chlorite alteration.	303010	206.00-207.00	1.00	0.245
			Sphalerite with pyrite along quartz veins at 207.04 at 37° to C.A. and at 207.42m at 35-40° to C.A. Pervasive grey silicification. Lapilli textures obliterated for the most part. Two phases of quartz veining at 213.25m, both with mineralization. dominant fracturing and veining at 25° and 15° to C.A.	303011	207.00-208.00	1.00	0.230
			Very intensely pyritized with crystalline granular pyrite. Intense sulphite mineralization continues with intense quartz veining and argillic alteration as fracture and of lapilli fragments. Minor specks of sphalerite. intense quartz flooding via veins continues. Large white angular lapilli fragments appear as breccia fragments but they are not. Argillic and sericitic? alteration along fractures and throughout the fragments. Strong coarse pyrite mineralization with fine grained specks of sphalerite along veinlet margins. Pyrite to 1%.	303012	208.00-209.50	1.50	0.095
			Unit becomes darker purplish grey with decrease in quartz veining and flooding. Biotite alteration returns. Pyrite content decreases to 2-3%	303013	209.50-211.00	1.50	0.180
			Quartz veining and flooding returns abruptly. Purple biotite alteration is no longer present. Argillic alteration of lapilli fragments leaves a distinct white colour against a grey quartz rich matrix. Slightly less quartz veining and flooding than from 221.0-222.0m. Purplish biotite rich patch from 22.85-223.00m and from 223.60-223.70m.	303014	211.00-212.40	1.40	0.115
			Quartz veining and flooding gradually diminishes from 224.00m and purple biotite content increases steadily from 224.14m. Fracturing roughly parallel to core axis (3-5°) carries white argillic clay and pyrite. Lower contacts at 56° to C.A.	303015	212.40-213.60	1.20	0.155
			<b>ANDESITE DYKE</b> - Dark greenish charcoal grey. Very fine grained crystalline. Slightly ghostly porphyritic texture in sections with cloudy white feldspar phenocrysts. A network of quartz-carbonate veins cuts this dyke.	303016	213.60-214.60	1.00	0.100
				303017	214.60-215.60	1.00	0.090
				303018	215.60-217.00	1.40	0.165
				303019	217.00-218.00	1.00	0.470
				303020	218.00-219.60	1.60	0.150
				303021	219.60-221.00	1.40	0.290
				303022	221.00-222.00	1.00	0.110
				303023	222.00-224.00	2.00	0.040
				303024	224.00-225.37	1.37	0.095
225.37	226.95	522	<b>ANDESITE DYKE</b> - Dark greenish charcoal grey. Very fine grained crystalline. Slightly ghostly porphyritic texture in sections with cloudy white feldspar phenocrysts. A network of quartz-carbonate veins cuts this dyke.	303025	225.37-226.95	1.58	0.025

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			1 cm wide quartz veins with coarse pyrite mineralization cut the C.A. at 25°-30° from 225.60-226.10m. Lower contact at 47° to C.A.				
226.95	229.00	412	<b>DACITIC-ANDESITIC LAPILLI TUFF</b> - Medium purplish grey, finer grained than previously. Lapilli fragments are much smaller (<0.5 cm diameter). Appears to be closer to ash rich tuff. silicification is very much diminished from previous sections. 1-3mm thick quartz carbonate veins. Pyrite content also has diminished significantly to approx. 1% Gradational lower contact at approx. 45° to C.A.	303026	226.95-228.00	1.05	0.045
				303027	228.00-229.00	1.00	0.205
229.00	230.82	512	<b>ANDESITE DYKE</b> - Dark greenish charcoal grey to light greenish grey in intensely altered and bleached section from 230.0-230.73m. Moderate intensity of quartz-carbonate veining ± pyrite at 15-25° to C.A. and 65° to C.A.	303028	229.00-230.82	1.82	0.035
230.82	231.65	598	<b>MAJOR FAULT ZONE</b> - Upper contact with Andesite Dyke at 40° to C.A. Brecciated and altered dyke rock in a grey clay gouge matrix. Some free pyrite cubes (1mmx1mm). Drill not able to penetrate. Fault Zone goes beyond 231.65m Hole stopped. Only 50% recovery. 231.65m: End of Hole (E.O.H.)	303029	230.82-231.65	0.83	0.010



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
10.00	47.80	312	<b>SILICEOUS FELSIC LAPILLI TUFF -</b> Pervasively silicified by quartz flooding. Patches of fragmental to "porphyritic" texture show through intensive silicification. Limonite permeates fracture walls leaving a creamy brown contorted alteration envelope.	303035	10.00-12.00	2.00	0.050
			Same as 10.00-12.00m.	302036	12.00-14.00	2.00	0.035
			Light bluish grey colour dominates with no epidote or k-spar alteration. Ghost lapilli fragments to 1.5 cm diameter are observed.	302037	14.00-16.00	2.00	0.030
			From 16.43-18.50m quartz veining and open fracturing at 10-15° to C.A. (roughly parallel to C.A.) has caused very blocky core. Weathered and limonite stained fracture surfaces. Pyrite mineralization is much weaker than previous section at <1%.	303038	16.00-18.00	2.00	0.030
			From 18.50-19.00m the low angle to core axis is replaced by fracturing at 45-50°. From 19.00-19.35m low angle fracturing returns at 15-20° to C.A.	303039	18.00-20.00	2.00	0.050
			Unit becomes flooded with a pervasive creamy white cherty type quartz. This has been overprinted by a pinkish brown limonite staining that has permeated rock along fractures.	303040	20.00-21.30	1.30	0.055
			Fracturing roughly parallel to C.A. (3-7°) coated with black MnO <sub>2</sub> cases blocky core in this section.	303041	21.30-23.00	1.70	0.095
			As above but core less broken. Low angle fracturing continues.	303042	23.00-25.00	2.00	0.065
			Quartz flooded bleached zoned gradually diminish towards 27.00m. At 25.95m, dark grey patches in quartz vein may be sphalerite (very fine grained specks). White argillically altered felsic fragments (feldspar crystal fragments?) give a "porphyritic" appearance to unit over small 10 cm sections.	303043	25.00-27.00	2.00	0.095
			Light green colour along fractures 5° to C.A. and 55° to C.A., possibly epidote.	303044	27.00-29.00	2.00	0.080
			Light greenish cream bleached zone from 29.00-29.50m with strong rusty red limonite stain overprinted.	303045	29.00-31.00	2.00	0.100
			From 29.50-31.00m returns to alternating bands of dark grey and light grey silicified tuff.	303046	31.00-33.00	2.00	0.180
			Core is very broken throughout this section with intense bleaching and fracturing from 34.20-36.00m at 40-60° to C.A. and 10-20° to C.A. Limonite staining permeates bleached zones.	303047	33.00-34.00	1.00	0.160
			Possible specks of sphalerite at 36.00m	303048	34.00-36.00	2.00	0.180

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			At 36.25m large fragments to 3 cm diameter visible. From 37.05-37.36m an intensely fractured and bleached zone with limonite staining occurs. 2-3mm thick <u>epidote</u> veins also occur at 25-30° to C.A. White argillic alteration is also found along the veins. Epidote veining also occurs from 37.93-38.08m	303049	36.00-38.00	2.00	0.190
			From 38.40-38.80m clay coated <u>shear</u> cross fractures occur. fractures at 35° and 20° to C.A.	303050	38.00-39.00	1.00	0.190
			Homogeneous section of grey finer grained tuff with white argillically altered feldspar? fragments, lending a porphyritic texture to rock. From 39.70-40.00m quartz & epidote veinlets occur at 30° to C.A.	303051	39.00-41.00	2.00	0.145
			Epidote and k-spar (pink) veining from 41.80-42.00m at 25-30° to C.A. Small shear? zone (broken core) from 42.80-43.00m.	303052	41.00-43.00	2.00	0.070
			1 cm wide epidote at 43.10m at 33° to C.A. as well as at 43.50m and 43.82m. K-spar accompanies the epidote. Pyrite epidote veinlet at 45.00m.	303053	43.00-45.00	2.00	0.040
			Shear zone from 46.35-46.70m approx. Broken core impairs measurement accuracy. Zone undulates for 5-30° to C.A.	303054	45.00-47.00	2.00	0.055
			Black colour to quartz veining from 47.70-47.80m - sphalerite?	303055	47.00-47.80	0.80	0.030
47.80	48.40	198	<b>FAULT ZONE in Bleached and Epidote Stained SILICEOUS FELSIC LAPILLI TUFF</b> - Core very broken up. minor gouge but intensely limonite stained. Fault approx. 40° to C.A. with veining.	303056	47.80-48.40	0.60	0.020
48.40	69.35	312	Light bluish grey <b>SILICEOUS FELSIC LAPILLI TUFF</b> with widely spaced pyritic quartz and epidote veins at 30° to C.A.	303057	48.40-50.00	1.60	0.050
			Quartz vein flooding from 50.55-51.10m at 45° to C.A. Rotted and vuggy vein at 50.80m. From 51.05-51.66m unit is intensely quartz and epidote veined at approx. 15° to C.A.	303058	50.00-52.00	2.00	0.030
			Strong k-spar alteration in quartz epidote vein system from 52.20-52.75m. Pinkish k-spar and light green epidote.	303059	52.00-54.00	2.00	0.100
			Epidote and k-spar alteration decreases significantly. Unit shows rough "porphyritic" texture due to argillic alteration of felsic fragments reach 0.5 cm diameter.	303060	54.00-56.00	2.00	<0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Core is very broken & blocky from 54.30-56.10m with intense limonite alteration permeating into the unit along fractures leaving rusted envelopes.	303061	56.00-58.00	2.00	0.085
			Darker bluish grey with pervasive silicification Fracturing at 10° to C.A. At 59.80m, small 1.5 cm patch of pyrite with chlorite and minor epidote.	303062	58.00-60.00	2.00	0.080
			Intensely fractured but healed with quartz. Minor specks of sphalerite at 60.78m.	303063	60.00-61.00	1.00	0.100
			Pyrite more common veining as from 61.50-64.75m and 62.43-62.64m. Core very broken and rusted from 62.35-63.40m due to fracturing at 5° to C.A. at 55° to C.A.	303064	61.00-63.00	2.00	0.290
			Minor sphalerite in chlorite-epidote veinlet at 65° to C.A. at 63.00m.				
				py. 303065	63.00-64.00	1.00	0.575
				py. 303066	64.00-65.00	1.00	0.425
				py. 303067	65.00-66.00	1.00	1.800
				py. 303068	66.00-67.00	1.00	0.720
				epidote: 303069	67.00-68.00	1.00	0.335
				303070	68.00-69.35	1.35	0.495
			Brecciated appearance more common below 63.50 due o silicification and bleaching. Chlorite zone (small dyke?) 63.88-64.12m. Abundant chlorite-epidote brecciation 67.00-67.34m. Sharp lower contact at 68° to C.A.				
69.35	76.15	512	<b>ANDESITE DYKE</b> - White plagioclase phenocrysts up to 6mm in length within a dark green fine grained matrix.	303071	69.35-71.00	1.65	0.040
			Bleaching common along fractures at 75° to C.A. and 10° to C.A. Minor pyrite along fractures 10° to C.A.	303072	71.00-73.00	2.00	0.070
				303073	73.00-75.00	2.00	0.200
			Lower contact very gradational, dark green matrix bleached at 73.80m. Minor epidote throughout down to contact. Contact defined at end of plagioclase phenocrysts. Minor fault at 22° to C.A.	303074	75.00-76.15	1.15	0.680
76.15	92.52	392	<b>Highly Brecciated SILICEOUS FELSIC TUFF</b> - Moderate pyrite content throughout as irregular veinlets and coarse disseminated patches. Pyrite associated with chlorite and epidote.	303075	76.15-78.15	2.00	0.495
				303076	78.15-80.00	1.85	0.680
				303077	80.00-82.00	2.00	0.450
				303078	82.00-84.00	2.00	0.535

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Pyrite-epidote-chlorite.	303079	84.00-86.00	2.00	1.055
			More intense epidote-chlorite stockwork breccia between 85.20-86.70m, abundant pyrite to about 10%. <u>Pink</u> scapolite alteration of coarse fragments also pink calcite.	303080	86.00-88.00	2.00	0.815
			Oxidized white quartz veinlets up to 12 mm wide at 24° to C.A. These quartz veins are <i>not</i> pyritic (the surrounding fragments are pyritic). Minor epidote along fractures at 38° to C.A. Lower contact broken at ≈45° to C.A.	303081	88.00-90.00	2.00	0.640
				303082	90.00-92.52	2.52	0.250
92.52	93.44	521	<b>ALTERED ANDESITE DYKE</b> - Dark green, fine grained, fractures are very rusty. Rubbly core.	303083	92.52-93.44	0.92	0.195
			Lower contact broken ≈55° to C.A.				
93.44	106.49	311	<b>SILICEOUS FELSIC TUFF</b> - Light to dark grey, variable degree of bleaching, rare pyrite. Very rusty fractures and broken core 101.20-106.49m	303084	93.44-95.00	1.56	0.195
				303085	95.00-97.00	2.00	0.220
				303086	97.00-99.00	2.00	0.940
			-- <b>FAULT</b> --				
			Fractures mainly subparallel to core axis. Slightly more chloritic below 101.20m. Short pyrite zone 105.42-105.60m. Rubble and core loss 105.60-106.49m Probably washing away of Fault Gouge. 20% core loss. Trace of pink calcite 98.95m on fracture 70° to C.A. Lower contact on fracture at 22° to C.A.	303087	99.00-101.00	2.00	0.495
				303088	101.00-103.00	2.00	0.605
				303089	103.00-105.00	2.00	0.290
				303090	105.00-106.49	1.49	0.725
106.49	109.22	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained very sparse pyrite. minor rounded plagioclase phenocrysts up to 7mm in length.	303091	106.49-109.22	3.03	<0.005
109.22	117.67	311	<b>SILICEOUS FELSIC TUFF</b> Mainly dark grey with irregular light grey bleached areas. Minor epidote veining at 30° to C.A. Pyrite forms narrow irregular lenses and veinlets at 70° to C.A. Core highly fractured 115.80 to lower contact mostly subparallel to core axis.	303092	109.52-111.00	1.48	0.575
				303093	111.00-113.00	2.00	0.570
				303094	113.00-115.00-	2.00	0.385
				303095	115.00-117.65	2.65	0.130
117.67	118.41	521	<b>ALTERED ANDESITE DYKE</b> - Dark to light green, fine grained shore pyritized and bleached zone, very rusty fractures. Lower contact at 65° to C.A. Bleached zone at 118.00m is at 40° to C.A.	303096	117.65-118.41	0.76	0.010
118.41	126.35	312	<b>EPIDOTIZED SILICEOUS FELSIC TUFF</b> - Abundant epidote in narrow quartz veinlets commonly at 21° to C.A. Close spaced fractures common. Minor disseminated pyrite, pyrite also coating fractures. Lower contact sharp at 51° to C.A.	303097	118.41-120.50	2.09	0.090
				303098	120.50-122.00	2.00	0.050
				303099	122.00-124.00	1.50	0.105
				303100	124.00-126.35	2.35	0.080



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
126.35	127.48	521	<b>BLEACHED ANDESITE DYKE</b> - Dark green, fine grained, narrow 1-4mm wide bleached zones around fractures at 74° to C.A. Lower contact at 60° to C.A. - not as sharp as upper contact.	266401	126.35-127.48	1.13	0.040
127.48	143.70	322	<b>Weakly Mineralized SILICEOUS FELSIC TUFF</b> - minor brown sphalerite throughout. Light grey overall, minor pyrite in fracture filling and veinlets at mainly 45-60° to C.A. Gouge coated fractures 130.70m 30° to C.A. Slight increase in sphalerite content below 133.00m.	266402	127.48-129.00	1.52	0.310
				266403	129.00-131.00	2.00	0.225
				266404	131.00-133.00	2.00	0.220
				266405	133.00-134.00	1.00	0.260
				266406	134.00-135.00	1.00	0.375
				266407	135.00-136.00	1.00	0.560
				266408	136.00-137.00	1.00	0.365
				266409	137.00-138.00	1.00	0.665
				260410	138.00-139.00	1.00	0.280
				266411	139.00-140.00	1.00	0.300
			Veinlet at 137.21m is typical up to 8mm wide with chlorite-quartz-pyrite-quartz with minor sphalerite on margin at 61° to C.A. Highly broken core 140.30-141.65m main fracture direction is sub parallel to core axis. More broken - fractured core 142.60 to lower contact. Lower contact is sheared and sharp, gougy at 56° to C.A.	266412	140.00-141.00	1.00	0.800
				266413	141.00-142.50	1.50	0.570
				266414	142.50-143.70	1.20	0.200
143.70	150.07	521	<b>Highly Sheared - Gougy ANDESITE DYKE</b> - Dark green mainly, calcite gougy common.	266415	143.70-145.00	1.30	0.025
			Short pyritized-epidotized tuff zone 147.05-147.80m.	266416	145.00-146.50	1.50	0.065
			Lower contact somewhat convoluted at approx. 14° to C.A. Slickensides abundant.	266417	146.50-148.00	1.50	0.120
				266418	148.00-150.07	2.07	0.035
150.07	156.30	321	<b>SILICEOUS FELSIC TUFF</b> - Light grey fine grained matrix, indistinct plagioclase porphyroblasts common throughout. Highly fractured near lower contact. Very sparse pyrite, traces of disseminated pyrite, epidote occurs as veinlets at 48° to C.A. More mottled texture below 154.00m.	266419	150.07-152.00	1.93	0.055
				266420	152.00-154.00	2.00	0.085
				266421	154.00-156.30	2.30	0.080
156.30	164.50	521	<b>ALTERED ANDESITE DYKE</b> - Dark green, fine grained, small 1-2mm white plagioclase porphyroblasts common throughout. Epidote abundant in veinlets 160.2-161m at 10° to C.A. & 50°. Minor pyrite along fractures and trace disseminated pyrite. Short, barren felsic tuff section 157.04-157.5m. Lower contact at 29° along sharp fractures.	266422	156.30-157.50	1.20	0.050
				266423	157.50-159.00	1.50	0.020
				422624	159.00-160.00	1.00	0.025
				266425	160.00-161.00	1.00	0.055
				266426	161.00-163.00	2.00	0.025
				266427	163.00-164.50	1.50	0.025

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
164.50	176.80	311	<b>SILICEOUS FELSIC TUFF</b> - Light to medium grey trace of disseminated pyrite. Distinct mottled texture suggestive of devitrification texture. Trace of epidote on 70° fractures, main fractures at 10-20° to C.A. Relatively uniform alteration.	266428	164.50-166.00	1.50	0.055
				266429	166.00-168.00	2.00	0.060
				266430	168.00-170.00	2.00	0.060
				266431	170.00-171.50	1.50	0.180
		312		Pyrite veinlets up to 2.5 cm at 15-20° to C.A. Pyrite content 169.50m and down increases minor brown sphalerite.	266432	171.50-173.00	1.50
			Lower content highly brecciated brown alteration (intrusive breccia)	266433	173.00-174.50	1.50	0.085
				266434	174.50-176.00	1.50	0.070
				266435	176.00-176.80	0.80	0.060
176.82	180.32	531	<b>ANDESITE DYKES</b> - Dark green, fine grained, plagioclase phenocryst. Upper part of interval 176.80-177.78m highly brecciated, bleached fragments, minor pyrite. Lower part uniform, unmineralized dyke. Lower contact at 4° to C.A.	266436	176.80-177.78	0.98	0.020
				266437	177.78-180.32	2.54	0.010
180.32	187.43	311	<b>SILICEOUS FELSIC TUFF</b> - Light grey, generally fine grained, slight mottled appearance.  pyrite Disseminated pyrite, finely divided throughout. Pyrite veinlet 193.70-183.76 at 26° to core axis.	266429	180.32-182.00	1.68	0.035
				266439	182.00-183.50	1.50	0.040
				266440	183.50-184.00	0.50	0.090
				266441	184.00-185.50	1.50	0.040
				266442	185.50-187.43	1.93	0.040
187.42	196.60	521	<b>ANDESITE DYKE</b> - Altered due to contacts being subparallel to core axis giving short section of felsic tuff, very friable. Irregular patches and veinlets of pyrite at low angles to C.A. Short felsic tuff fragment at 192.40-192.50m is at 19° to C.A. minor gouge along 70° fractures at 193.92m. Lower contact characterized by fine grained brown alteration (Biotite>?). Rubby core at contact.	266443	187.43-489.00	1.57	0.010
				266444	189.00-190.50	1.50	0.010
				266445	190.50-191.50	1.00	0.020
				266446	191.50-192.50	1.00	0.015
				266447	192.50-194.50	2.00	0.010
				266448	194.50-196.60	2.10	0.010
196.60	201.19	311	<b>SILICEOUS FELSIC TUFF</b> - Light grey, fine grained, with dark grey indistinct mottling. <u>Highly fractured and friable.</u> Lustrous fractures - rough slickensides. Minor disseminated pyrite and pyrite coating pyrite. Lower contact sharp at 22° to C.A.	266449	196.60-198.00	1.40	<0.005
				266450	198.00-199.50	1.50	<0.005
				266451	199.50-201.19	1.69	0.010
201.19	202.23	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, highly fractured at low angle to core axis. Lower contact sharp at 34° to C.A.	266452	201.19-202.23	1.04	0.015
202.23	203.78	311	<b>SILICEOUS FELSIC TUFF</b> - Light grey mottled by darker grey, highly fractured at 25-30° to C.A. Minor small pyrite lenses at upper contact. Lower contact sharp at 10° to C.A., curved.	266453	202.23-203.78	1.50	0.010

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)				
203.78	220.65	521	<b>ANDESITIC DYKE</b> - Mainly dark green, fine grained with plagioclase phenocrysts up to 3mm in length. Pyritic sheared-fractured and altered (biotitic) from upper contact down to 206.50. Less pyrite and alteration below except for minor epidote alteration 210.00-211.70m. Epidote mainly fills fractures at 15° to C.A. but minor pervasive epidote occurs between 210.15-210.34m. Minor fracture-fault at 211.62m at 67° to C.A. Section 211.70-218.00m is very uniform, unaltered Andesite - not sampled. Brecciated and associated biotitic and epidote alteration from 218.00-218.65m. Minor pyrite lenses, calcareous shearing at 19° to C.A. Lower contact sharp at 26° to C.A.	266454	203.78-205.00	1.22	0.015				
				266455	205.00-206.50	1.50	0.015				
				266456	210.00-212.00	2.00	0.010				
				266457	218.00-219.00	1.00	<0.005				
				266458	219.00-220.65	1.65	<0.005				
				220.65	230.00	311	<b>SILICEOUS FELSIC TUFF</b> - Medium to light grey, mottled texture, sporadic pyritic veinlets at 15° to C.A. Narrow Andesitic Dyke between 224.38-227.76m. Moderately well fractured. Main fracture direction 24° to C.A. Pyrite gradually increasing below.	266459	220.65-222.00	1.35	0.015
								266460	222.00-223.50	1.50	0.035
								266461	223.50-225.00	1.50	0.030
266462	225.00-226.50	1.50	0.035								
266463	226.50-228.00	1.50	0.935								
266464	228.00-229.00	1.00	0.050								
266465	229.00-230.00	1.00	0.125								
230.00	233.48	312	<b>PYRITIC SILICEOUS FELSIC TUFF</b> - Light to medium grey, mottled texture. abundant pyrite	266466	230.00-231.00	1.00	0.385				
				266467	231.00-232.00	1.00	1.410				
				266468	232.00-233.00	1.00	0.280				
				266469	233.00-234.00	1.00	0.195				
					Numerous pyritic veinlets at approx. 10° to C.A. cut through interval. Drusy quartz veins common. minor gouge filled fractures at 230.40m. Traces of light brown sphalerite. Fractures subparallel to core axis. Pyrite abruptly decreases in abundance at 233.48m.						
233.48	248.30	311	<b>SILICEOUS FELSIC TUFF</b> - Light grey to medium grey mottled texture, well fractured at low angle to core axis, minor disseminated pyrite, sporadic pyrite veinlets on fractures. short andesite dyke core loss	266470	234.00-235.50	1.50	0.045				
				266471	235.50-237.00	1.50	0.060				
				266472	237.00-238.50	1.50	0.055				
				266473	238.50-240.00	1.50	0.160				
				266474	240.00-241.05	1.05	0.110				
				266475	241.05-242.62	1.57	0.025				
266476	242.62-244.00	1.38	0.025								

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Slight increase in pyrite content at 244.80 and down. Pyrite veinlets average 28° to C.A. Lower contact sharp at 35° to C.A. marked by increase in chlorite.	266477	244.00-245.50	1.50	0.130
				266478	245.50-247.00	1.50	0.105
				266479	247.00-248.30	1.30	0.160
248.30	249.20	521	<b>ALTERED ANDESITE DYKE</b> - Dark green, fine grained minor epidote-quartz veining at 31° to C.A. Lower contact sharp at 22° to C.A.	266480	248.30-249.20	0.90	0.050
249.20	251.15	321	<b>SILICEOUS FELSIC TUFF</b> - Light to medium grey, calcite films on 65° to C.A. fractures common. Uniform, biotite content much higher than previous intervals. Lower contact at 25° to C.A.	266481	249.20-251.15	1.95	0.080
251.15	253.95	521	<b>PORPHYRITIC ANDESITE DYKE</b> - Light grey-white plagioclase phenocrysts common throughout in dark grey fine grained matrix. Lower contact sheared at low angle to C.A.	266482	251.15-152.45	1.30	0.010
				266483	252.45-253.95	1.50	0.040
253.95	263.20	311	<b>SILICEOUS FELSIC TUFF</b> - medium grey mottled with slightly darker grey, cut by narrow quartz veinlets sub parallel to core axis between 256.50-258.00m Plagioclase ragged porphyroblasts more common between 261.00-262.00m. Lower part very pyritic before lower contact. Approximately 10% pyrite between 262.00-263.20m. Lower contact at about 40° to C.A. indistinct.	266484	253.95-255.00	1.05	0.050
				266485	255.00-256.50	1.50	0.110
				266486	256.50-258.00	1.50	0.105
				266487	258.00-259.50	1.50	0.085
				266488	259.50-261.00	1.50	0.130
				266489	261.00-262.00	1.00	0.100
				266490	262.00-263.20	1.20	0.070
263.20	266.08	521	<b>FELDSPAR PORPHYRY (Andesite Dyke)</b> - Very porphyritic, crowded plagioclase phenocrysts averaging about 2mm in length, in dark greenish grey groundmass. Lower contact has been epidotized 265.82-266.08m.	266491	263.20-264.60	1.40	0.020
				266492	264.60-266.08	1.48	0.020
266.08	270.05	312	<b>PYRITIC SILICEOUS FELSIC TUFF</b> - Light grey with darker grey mottling. Bluish green chlorite shearing sub parallel to C.A. at 269.00m. Uniform disseminated pyrite 2-3% pyrite overall. Biotite abundant 269.80-270.05m suggestive of Dacitic Nodular relict texture.	266493	266.08-267.00	0.92	0.045
				266494	267.00-268.00	1.00	0.035
				266495	268.00-269.00	1.00	0.055
				266496	269.00-270.05	1.05	0.050

End Of Hole 270.05m (886 ft)

**MOUNT HOPE RESOURCES CORPORATION**  
1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

**SECTION:** 30050N

**Diamond Drill Log**

**DDH#:** HS97-11

Northing: 30050.00N  
Easting: 31020.00  
Elevation: 906m  
Azimuth: 060  
Inclination: -60  
Grid: Aranlee  
Length (m): 230.73 (757ft)  
Core size: NQ-2  
Contractor: F. Boisvenu  
Drill Type: Boyles 37

Drill Hole survey  
Method: Degree Rule

Azimuth	Dip	Depth
060	-60	0

Property: Hotspring  
NTS: 92G/11W  
Claim: Hotspring 7  
Date Started: Oct. 20/97  
Date Completed: Oct. 2/97  
Logged by: J.T.Shearer

Purpose: Continuation of lost hole HS97-08, east of major fault.

from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
0.00	3.05	900	Casing - no core recovery				
3.05	6.42	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, minor bleaching for 1-2mm around 10° to C.A. fractures. Pyritic veinlets 4.45m at 44° to C.A. Rubby core to 3.80m. Lower contact sharp at 62° to C.A. on very rusty fracture.	303701 303702	3.05-4.50 4.50-6.42	1.45 1.92	0.020 0.010
6.42	10.02	312	<b>PYRITIC SILICEOUS FELSIC TUFF</b> - Light grey, fine grained mottled with slightly darker grey, pyrite-chlorite along aligned to irregular veinlets discontinuous at 60° to C.A. Short Andesite Dyke from 8.76-8.90m at 75° to C.A. Lower contact at 75° to C.A.	303703 303704 303705	6.42-8.00 8.00-9.00 9.00-10.02	1.58 1.00 1.02	<0.005 <0.005 <0.005
10.02	13.31	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, upper 50 cm slightly bleached. White plagioclase phenocrysts common to 3mm in length. Minor pyrite along quartz veinlets at 64° to C.A. Lower contact faulted with white gouge at ≈70° to C.A. Core sheared & granulated.	303706 303707	11.02-11.50 11.50-13.21	1.48 1.71	<0.005 <0.005
13.21	14.72	311	<b>SILICEOUS FELSIC TUFF</b> - Light grey, well mottled with biotitic lenses, upper contact Fault down to 13.45m, minor chlorite filled shearing. White is gouge at 14.00m & 14.05m 80° to C.A. Minor gouge on Lower contact at 65° to C.A.	303708	13.21-14.72	1.51	<0.005
14.72	15.51	521	<b>ANDESITE DYKE</b> - moderate green, fine grained, traces pyrite in 10mm quartz veinlet at 15.40 at 52° to C.A. Lower contact grey greenish gougy fractures.	303709	14.72-15.51	0.79	<0.005
15.51	21.85	311	<b>SILICEOUS FELSIC TUFF</b> - brownish grey, fine grained, mottled with chloritic & biotitic lenses. Much more biotite in this interval - perhaps more relict dacitic character. Very mottled in places. Lower contact sharp at 68° to C.A.	303710 303711 303712 303713	15.51-17.00 17.00-18.50 18.50-20.00 20.00-21.85	1.49 1.50 1.50 1.85	<0.005 <0.005 <0.005 <0.005

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
21.85	23.73	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, fractures common at 5° to C.A. with minor pyrite. Lower contact fractured but appears to be 75-80° to C.A.	303714	21.85-23.73	1.88	<0.005
23.73	29.30	311	<b>BIOTITIC SILICEOUS FELSIC TUFF</b> - Dark grey, highly mottled with dark brown fragmental texture accentuated by replacement chlorite. minor pyrite veinlets such as 24.04-24.07m at 58° to C.A. Fractures in this section are filled with white gouge at 28° to C.A.	303715	23.73-25.00	1.27	<0.005
				303716	25.00-26.50	1.50	0.030
				303717	26.50-28.00	1.50	<0.005
				303718	28.00-29.30	1.30	<0.005
29.30	30.69	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, highly fractured, low angle fractures common. Minor rusty quartz veining sub parallel to C.A. starting at 31.08-31.40m. Lower contact gouge coated fracture at 55° to C.A.	303719	29.30-30.69	1.69	<0.005
30.69	31.29	331	<b>BIOTITIC SILICEOUS TUFF</b> - Light grey with rounded dark brown mottling, alignment of biotite lenses at 51° to C.A. White siliceous patches common. Lower contact, gougy fracture at 65° to C.A.	303720	30.69-31.29	0.60	0.010
31.29	35.17	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, minor bleaching along 60° fractures. Lower contact sharp at 55° to C.A.	303721	31.29-33.00	1.71	<0.005
				303722	33.00-35.17	2.17	<0.005
35.17	36.25	331	<b>BIOTITIC SILICEOUS TUFF</b> - Brownish at top but becoming light grey toward bottom of interval. Lower contact sharp at 65° to C.A.	303723	35.17-336.25	1.08	0.080
36.25	37.37	521	<b>ANDESITE DYKE</b> - Dark green, fine grained, Lower contact medium brown "hornfels" ending in greenish white gouge.	303724	36.25-37.37	1.12	0.015
37.37	59.50	311	<b>SILICEOUS FELSIC TUFF</b> - medium grey, highly fragmental for short sections, fragments commonly light tan coloured, gougy fractures at 41.92-42.03m. Gradual increase in silica and pyrite content with depth.	303725	37.37-38.80	1.43	0.060
				303726	38.80-40.00	1.20	0.050
				303727	40.00-41.50	1.50	0.040
				303728	41.50-43.00	1.50	0.030
				303729	43.00-44.50	1.50	0.030
				303730	44.50-46.00	1.50	0.250
				303731	46.00-47.50	1.50	0.040
				303732	47.50-49.00	1.50	0.190
				303733	49.00-50.50	1.50	0.065
				303734	50.50-52.00	1.50	0.080
303735	52.00-53.50	1.50	0.060				
303736	53.50-55.00	1.50	0.070				
303737	55.00-56.50	1.50	0.035				

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Quartz veinlet 54.66-54.69 at 83° to C.A., has to 11mm as a band of pyrite.	303738	56.50-58.00	1.50	0.170
			interval relatively uniform throughout.	303739	58.00-59.50	1.50	0.135
			<i>Lower contact very gradational over about 2 metres.</i>				
59.50	64.60	313	<b>PYRITIC VERY SILICEOUS FELSIC TUFF</b> - Light grey, fine grained overall, highly brecciated and veined by silica.	303740	59.50-60.50	1.00	0.135
			Veining is irregular, but mainly at 10-20° to C.A. Lower contact faulted, white gouge approximately 70° to C.A.	303741	60.50-61.50	1.00	0.045
				303742	61.50-62.50	1.00	0.105
				303743	62.50-63.50	1.00	0.225
				303744	63.50-64.60	1.10	0.200
64.60	67.77	411	<b>DACITIC "FELSIC" TUFF</b> - Brown, biotitic matrix and typical nodular texture immediately below fault at 65.50m. Core loss in Fault 80% recovery in Fault.	303745	64.60-66.14	2.44	0.020
			Core recovered, not mineralized. Rusty sharp lower contact at 58° to C.A.	303746	66.14-67.77	1.63	0.020
67.77	68.74	521	<b>ANDESITE DYKE</b> - Fine grained, dark green. Lower contact has white gouge along 47° to C.A. fracture. Minor disseminated pyrite.	303746	67.77-68.74	0.97	0.020
68.74	95.50	312	<b>PYRITIC VERY SILICEOUS FELSIC TUFF</b> - Light grey, mottled appearance with abundance of lighter grey fragments. Irregular quartz veinlets and lenses. Minor sphalerite at 73.41-73.72m.	303748	68.74-70.00	1.26	0.020
				303749	70.00-71.00	1.00	0.490
				303750	71.00-72.00	1.00	1.205
				303751	72.00-73.00	1.00	1.900
				303752	73.00-74.00	1.00	1.030
				303753	74.00-75.00	1.00	0.215
				3037554	75.00-76.00	1.00	0.260
				303755	76.00-77.00	1.00	0.155
				303756	77.00-78.00	1.00	0.035
				303757	78.00-79.00	1.00	0.135
				303758	79.00-80.00	1.00	0.090
			Minor gouge on fractures at 74.45m at 80° to C.A. most quartz veinlets between 68.74m & 80.00m contain traces of dark brown sphalerite. Biotitic matrix increases slightly between 87.70-90.50m with corresponding decrease in silica content. White quartz-mottled silica flooding 93.50-94.50m. Minor light brown-honey coloured sphalerite at 93.66m.	303759	80.00-81.50	1.50	0.065
				303760	81.50-83.00	1.50	0.025
				303761	83.00-84.50	1.50	0.055
				303762	84.50-86.00	1.50	0.430
				303763	86.00-87.50	1.50	0.250
				303764	87.50-89.00	1.50	0.035
				303765	89.00-90.50	1.50	0.030
				303768	90.50-92.00	1.50	0.305
				303769	92.00-93.50	1.50	1.620
				303770	93.50-94.50	1.00	2.180

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Dark brown almost purplish sphalerite in veinlets at 95.36m at 54° to core axis. Lower contact very gradational. Determined by increase in pyrite and sphalerite content.	303771	94.50-95.50	1.00	2.320
95.50	106.01	313	<b>VERY PYRITIC &amp; VERY SILICEOUS FELSIC TUFF</b> - Medium grey, highly altered appearance, fragmental, quartz veining at 100.22 is at 71° to C.A. Very abundant pyrite, abundant sphalerite.	303772	95.50-96.50	1.00	3.800
			Chalcopyrite present in areas of most intense pyrites minor disseminations and small fracture controlled lenses.	303773	96.50-97.00	0.50	1.220
			Quartz veining at 101.53m is 73° to C.A. Minor sphalerite along vein margins. Lower contact sheared and Faulted. Shearing at 21° to C.A. Minor gouge along fractures.	303774	97.00-98.00	1.00	0.325
				3030775	98.00-99.00	1.00	1.140
				303776	99.00-100.00	1.00	1.315
				303777	100.00-101.00	1.00	0.635
				303778	101.00-102.00	1.00	0.920
				303779	102.00-103.00	1.00	7.760
				303780	103.00-103.50	0.50	0.635
				303781	103.50-104.00	0.50	0.590
				303782	104.00-104.50	0.50	0.720
				303783	104.50-105.00	0.50	0.595
				303784	105.00-106.01	1.01	0.205
106.01	140.50	411	<b>SILICIFIED ALTERED DACITIC NODULAR TUFF</b> - Highly bleached in short intervals, however, abundant brown biotitic matrix present in variable proportion throughout. Quartz veining at 15° and 85° common throughout carrying minor brown sphalerite and minor pyrite. Some sphalerite lenses are up to 12mm wide as at 108.53m at 84° to C.A. Although this entire thick interval is characterized by relatively irregular alteration and veining (± pyrite and sphalerite), the whole section is uniform.	303785	106.01-107.50	1.49	0.165
			Quartz veining occurs at several different angles, at 108.00m veining is at 55° to C.A., at 108.53m at 84° to C.A., at 112.75m at 78° to C.A., at 116.40m at 40° to C.A. Sphalerite bearing veinlets appear to be high angle veinlets associated, sphalerite at 1220.10 is 81° to C.A. Preserved nodular texture is apparent between 123.35-123.70m. Pyrite-sphalerite veinlet at 127.26m is at 87° to C.A.	303786	107.50-109.00	1.50	0.260
				303787	109.00-110.50	1.50	0.220
				303788	110.50-112.00	1.50	0.185
				303789	112.00-113.50	1.50	0.230
				303790	113.50-115.00	1.50	
				303791	115.00-116.50	1.50	
				303792	116.50-118.00	1.50	
				303793	118.00-119.50	1.50	
				303794	119.50-121.00	1.50	
				303795	121.00-122.50	1.50	
				303796	122.50-124.00	1.50	
				303797	124.00-125.50	1.50	
				303798	125.50-127.00	1.50	
				303799	127.00-128.50	1.50	
				303800	128.50-130.00	1.50	
				303801	130.00-131.50	1.50	
				303802	131.50-133.00	1.50	
				303803	133.00-134.50	1.50	
				303804	134.50-136.00	1.50	



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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Minor calcite + gouge on 15° fractures at 130.15-130.40m. Lower contact	303805	136.00-137.50	1.50	
			gradational over 1 metre. Core gradually becomes more broken.	303806	137.50-139.00	1.50	
				303807	139.00-140.50	1.50	
140.50	149.85	411	<b>FAULTED SILICIFIED ALTERED DACITIC NODULAR TUFF</b> - Core highly fractured, minor gouge on fractures.	303808	140.50-142.50	2.00	
			Main shearing angle is 65° to C.A. Minor white gouge on fractures. Rubbly core	303809	142.50-144.50	2.00	
			145.00-145.70m, crushed interval (very friable) from 146.20-147.25m. Gouge on fractures at 149.35m is at about 30° to C.A.	303810	144.50-146.50	2.00	
				303811	146.50-148.50	2.00	
				303812	148.50-149.85	1.35	
149.85	184.92	421	<b>ALTERED DACITIC NODULAR TUFF</b> - Dark brown matrix predominates section, Lesser lighter grey angular fragments. Widely spaced quartz veinlets with minor pyrite and minor sphalerite. Veinlets at 152.80m is 51° to C.A. Veinlet at 154.40m is at 78° to C.A. Small Andesite Dyke 163.29-163.68m. Upper contact at 75° to C.A. Sphalerite bearing veinlet at 163.05 is 64° to C.A., quite chloritic.	303813	149.85-151.50	1.65	
				303814	151.50-153.00	1.50	
				303815	153.00-154.50	1.50	
				303816	154.50-156.00	1.50	
				303817	156.00-157.50	1.50	
				303818	157.50-159.00	1.50	
				303819	159.00-160.50	1.50	
				303820	160.50-162.00	1.50	
				303821	162.00-163.50	1.50	
				303822	163.50-165.00	1.50	
				303823	165.00-166.50	1.50	
			Sphalerite-pyrite-quartz veinlet from 168.390168.46m at 82° to C.A., brown sphalerite. Irregular silicified zone from 168.98-169.37m at high angle to core axis, minor pyrite lenses and veinlets.	303824	166.50-168.00	1.50	
				303825	168.00-169.50	1.50	
				303826	169.50-171.00	1.50	
				303827	171.00-172.50	1.50	
			Pyrite-quartz veinlet, 18mm wide at 131.98m, 85° to C.A. Gougy fault zone 175.59-176.28m - main shear angle approx. 40° to C.A. Bands sphalerite-quartz veinlet at 151.08-151.18m at 25° to C.A. At lower contact - silicified zone 81° to C.A. between 184.78-184.89m.	303828	172.50-174.00	1.50	
				303829	174.00-175.50	1.50	
				303830	175.50-177.00	1.50	
				303831	177.00-178.50	1.50	
				303832	178.50-180.00	1.50	
				303833	180.00-181.50	1.50	
				303834	181.50-183.00	1.50	
				303835	183.00-184.00	1.00	
				303836	184.00-184.92	0.92	

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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
184.92	187.79	521	<b>ANDESITE DYKE</b> - Dark green, fine grained minor disseminated pyrite, minor chlorite veinlets at 80° to C.A. Lower contact gradational over 10 cm. White phenocrysts of plagioclase increase as contact is approached.	303837	184.92-186.00	1.80	
187.79	188.54	401	<b>DACITIC NODULAR TUFF</b> - Brown biotitic fine grained matrix with irregular fragments. Gradational lower contact over 5 cm.				
188.54	188.97	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, minor disseminated pyrite, essentially unmineralized. Sheared lower contact at about 30° to C.A. Minor calcite along shear planes, rough slickensides.				
188.97	191.68	4.01	<b>DACITIC NODULAR TUFF</b> - Dark brown fine grained biotitic matrix, lighter grey nodules well preserved. Minor pyrite lenses at 189.51m. Lower contact indistinct.				
191.68	192.34	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, not mineralized, minor calcite along 20° fractures.				
192.34	194.08	401	<b>DACITIC NODULAR TUFF</b> - Dark brown, fine grained, biotitic matrix, slightly more silicified, Pyritic with traces of sphalerite. Highly shatter-gouge fault zone at lower contact 75-80° to core axis.	303838	193.00-194.08	1.08	0.255
194.08	195.95	541	<b>HIGHLY FAULTED ANDESITE DYKE</b> - Highly shattered, abundant light grey gouge, main shear direction is at a high angle to core axis.	303839	194.08-195.00	1.42	0.030
			Lower contact indistinct - bleached but appears to be at a high angle.	303840	195.00-195.95	0.95	0.020
195.95	201.80	441	<b>VERY ALTERED AND BLEACHED DACITIC NODULAR TUFF</b> - Light brown matrix, alternating with whitish to chloritic bleached areas. Fragments strongly aligned at 60° to C.A.	303841	195.95-197.50	1.55	0.150
			More regular nodular texture apparent for short intervals between 198.70-199.60m. Lower contact siliceous, veining at 30° to C.A. but contact at high angle to C.A. (70-80°).	303842	197.50-199.00	1.50	0.070
				303843	199.00-200.50	1.50	0.070
				303844	200.50-201.80	1.30	0.055
201.80	203.64	521	<b>ANDESITIC DYKE</b> - Dark green, fine grained, numerous calcite filled tension gash veins. Lower contact slightly sheared at 67° to C.A.	303845	201.80-203.64	1.84	
203.64	223.64	411	<b>BLEACHED and ALTERED DACITIC NODULAR TUFF</b> - Light greenish grey, fine grained, relict fragmental texture.	303846	203.64-205.00	1.36	0.050
			More typical less altered nodular texture	303847	205.00-206.50	1.50	0.080
			207.80-210.20m.	303848	206.50-208.00	1.50	0.750

# MOUNT HOPE RESOURCES CORPORATION

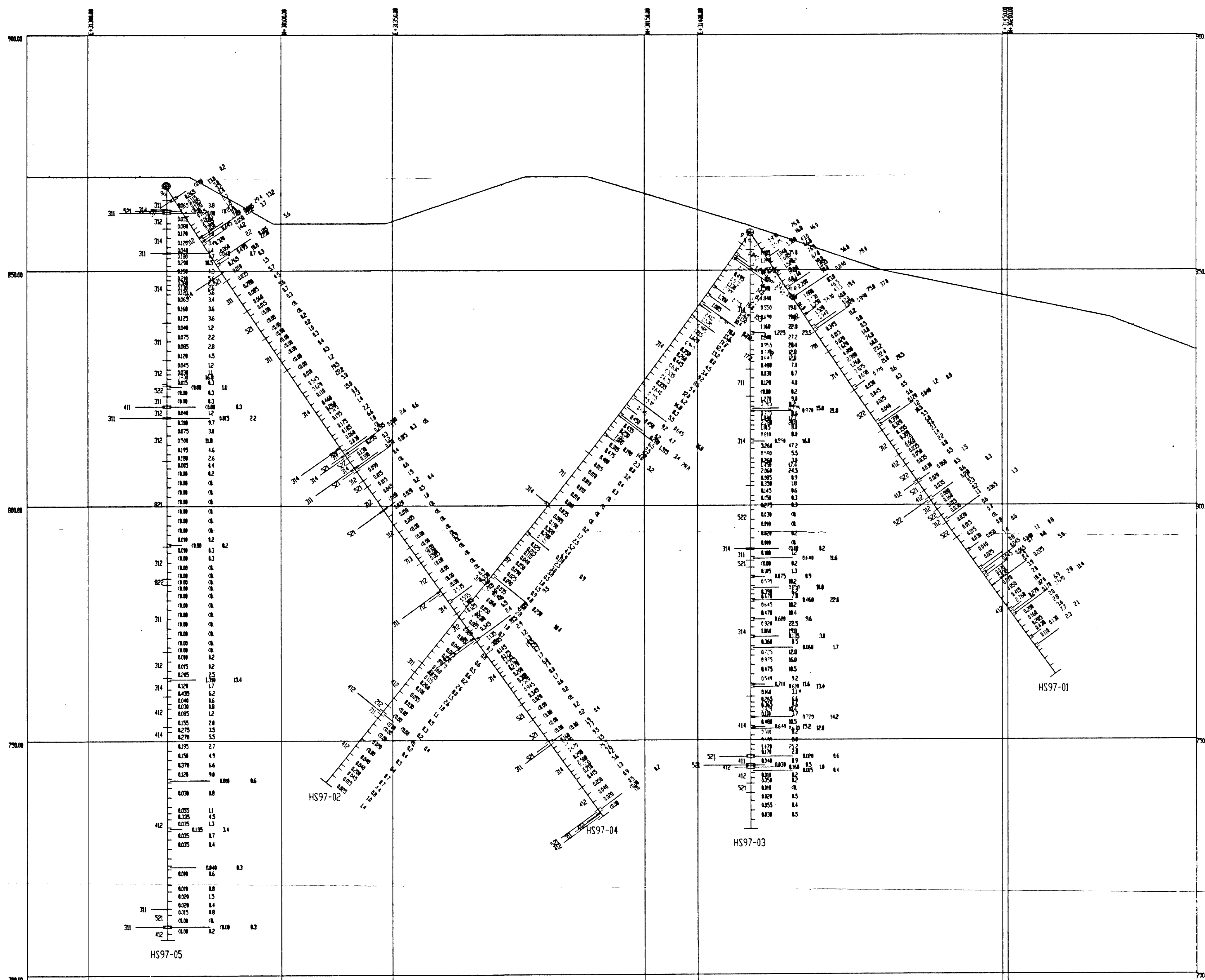
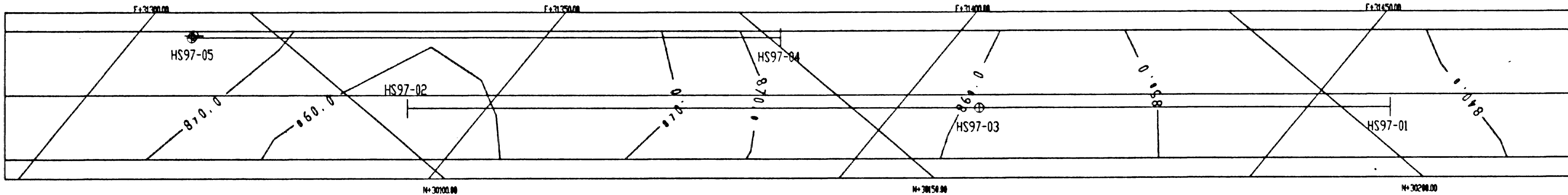
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from (m)	to (m)	Code	Description	sample No.	from/to	width (m)	Au (g/t)
			Slightly sheared bleached zone with traces of disseminated pyrite 212.00-213.90m, quartz veining mainly at 58° to C.A. Lower contact gradational over 50 cm.	303849	212.00-213.90	1.90	0.350
223.64	230.73	401	<b>DACITIC NODULAR TUFF</b> - Brow, fine grained, biotitic matrix with lighter grey rounded nodular common to highly crowded in association with lighter grey angular fragments. Short bleached zone with minor fracture controlled pyrite between 226.20-227.10m, quartz veining at 30° to C.A. END of HOLE 230.70M (757 ft)	303850	226.00-227.10	1.10	0.245



**MOUNT HOPE RESOURCES CORPORATION**  
 1918-825 West Georgia St., Vancouver, B.C., V6C 3L2

**Coding System - Harrison Lake Project**

**Rock Type**

**9 OVERBURDEN/CASING**  
 No ore recovered  
 Overburden

**8 ANDESITE TUFFS**  
 Medium green fine grained silicified matrix  
 Abundant feldspar tuffaceous fragments  
 0-5% fine grained mafic tuffaceous fragments

**7 PALE GREEN TUFF**  
 Pale green and highly siliceous  
 Very fine grained with ghost feldspar tuffaceous fragments  
 May be banded  
 Not mapped in surface exposures

**6 BIOTITE-HORNBLÉNDE DIORITE**  
 Unaltered, medium to fine grained contains xenolithic blocks of andesite near contact

**5 ANDESITE FLOWS/HIGH LEVEL INTRUSIVES**  
 Massive undifferentiated multi-jointed  
 Gray black to greenish black in colour  
 Variably porphyritic  
 Extensive chlorite alteration, lesser epidote alteration  
 Pyrite almost universally present, 1-15% disseminated and locally richer on fracture surfaces

**ANDESITE DYKES**  
 Same lithology as above  
 Commonly porphyritic - "feldspar porphyry"  
 Contacts vary between diffuse gradational to sharp and often sheared  
 Cuts all other lithologies (except diorite?)  
 Most trend north-northwest

**4 DACITIC - ANDESITIC LAPILLI TUFFS**  
 Coarse dark gray to purplish in colour  
 Nodular form common in drill core, often lagged as nodular tuff  
 Secondary biotite common, giving well developed fabrics  
 Generally show pervasive silicification, pyritization and lesser k-feldspar alteration

**3 SILICEOUS FELSIC TUFFS**  
 Fine grained, light blue-gray in colour  
 May include minor highly altered sediments?  
 Generally pervasive silicification, pyritization and k-feldspar alteration  
 Strongly bleached, leached, with distinctive yellow brown gossanous weathered skin in strongly altered areas

**2 SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS**  
 Very siliceous, white sugary textured  
 Minor pyrite <1%  
 Sericite common  
 Pink Fe-oxide stain distinctive on weathered surface  
 Gradational with (3) in some areas

**1 PENINSULAR FORMATION/BOULDER CONGLOMERATE**  
 Well rounded granitic boulders floating in dark chloritized andesitic matrix

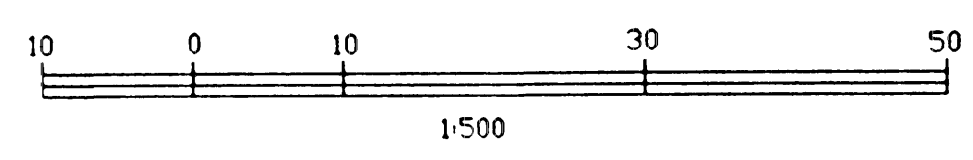
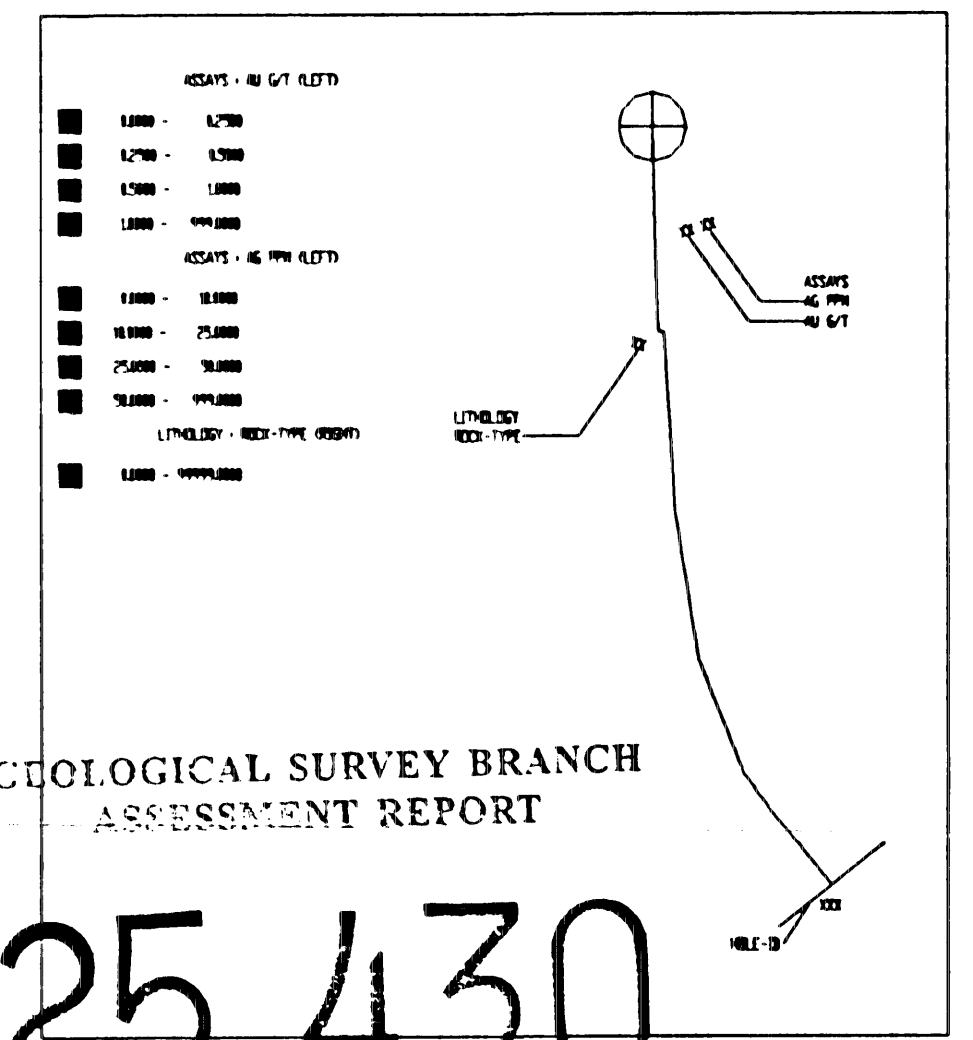
**Alteration/Textures**

0 No distinctive alteration  
 1 Silica  
 2 Chlorite  
 3 Carbonate  
 4 K-spar  
 5 Sericite  
 6 Graphite  
 7 Mylonitic  
 8 Foliated/schistose  
 9 Brecciated

**Mineralization**

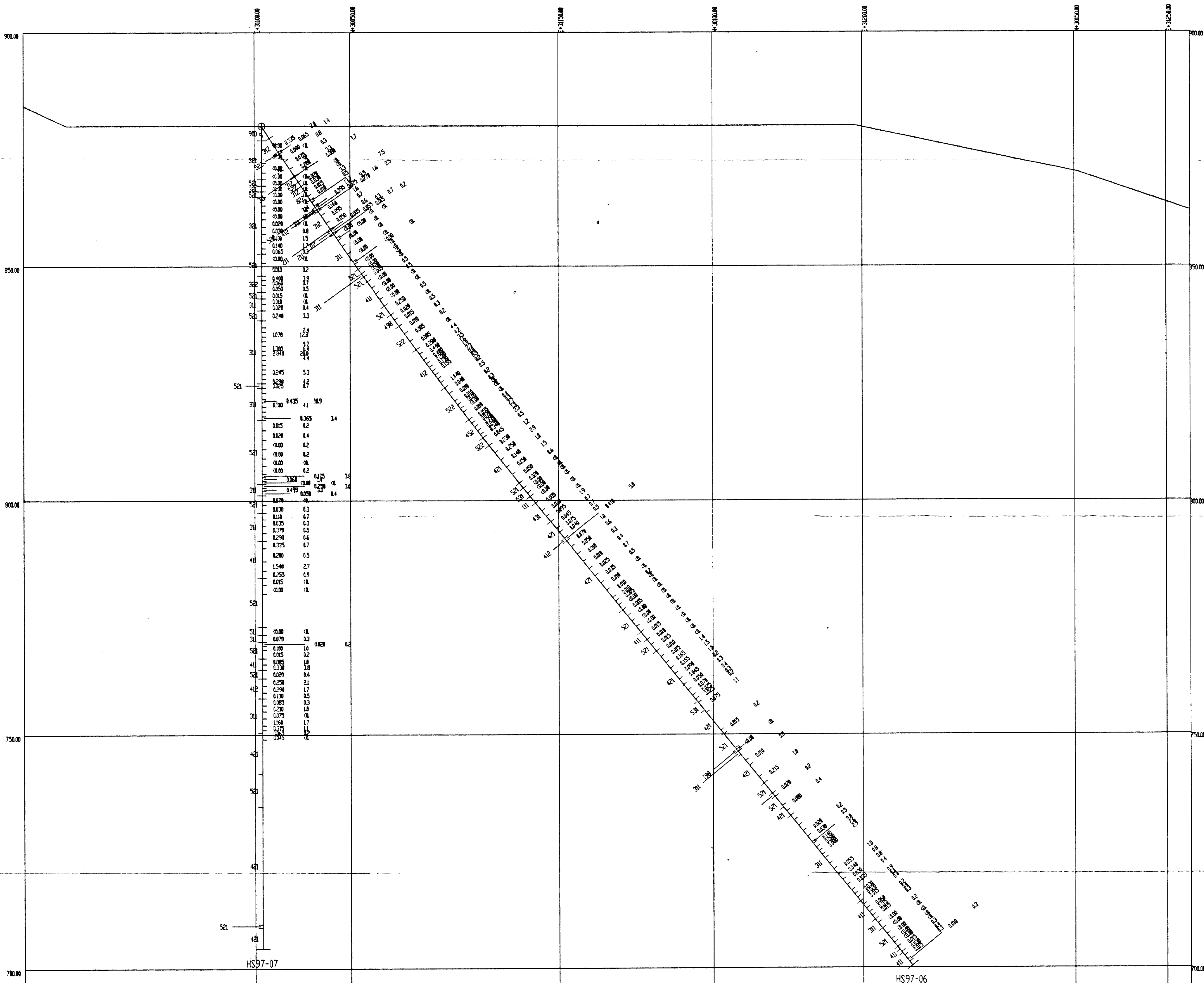
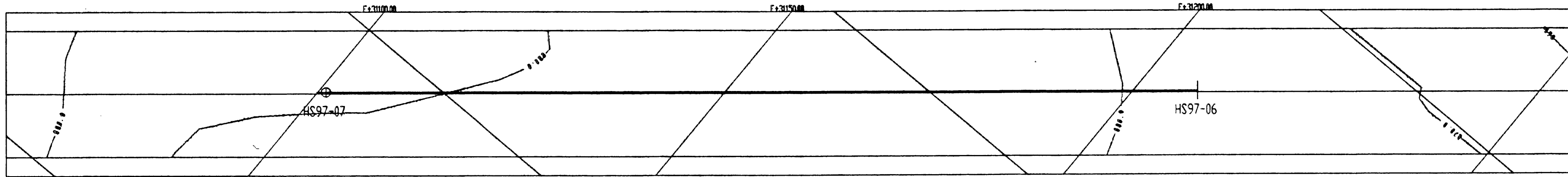
0 No mineralization  
 1 Minor pyrite  
 2 Moderate pyrite  
 3 Abundant pyrite  
 4 Trace PbS/ZnS & Py  
 5 Moderate PbS/ZnS no pyrite  
 6 Barite  
 7 Chalcopyrite

Example: 412 = Moderately pyritic silicified nodular andesitic tuff.



**Mt. HOPE RESOURCES CORPORATION.**  
**HARRISON LAKE PROJECT**

**CROSS SECTION 1-1**  
**DDH HS97-1,2,3,4,5**



MOUNT HOPE RESOURCES CORPORATION  
 1918-925 West Georgia St., Vancouver, B.C., V6C 3L2  
 Coding System - Harrison Lake Project

Rock Type

9 OVERBURDEN/CASING  
 No ore recovered  
 Overburden

8 ANDESITE TUFFS  
 Medium green fine grained silicified matrix  
 Abundant feldspar tuffaceous fragments  
 0-3% fine grained mafic tuffaceous fragments

7 PALE GREEN TUFF  
 Pale green and highly siliceous  
 Very fine grained with ghost feldspar tuffaceous fragments  
 May be banded  
 Not mapped in surface exposures

6 BIOTITE-HORNBLende DIORITE  
 Unaltered, medium to fine grained contains xenolithic blocks of andesite near contact

5 ANDESITE FLOWS/HIGH LEVEL INTRUSIVES  
 Massive undifferentiated multi-jointed  
 Grey-black to greenish black in colour  
 Variably porphyritic  
 Extensive chlorite alteration, lesser epidote alteration  
 Pyrite almost universally present, 1-15% disseminated and locally richer on fracture surfaces

ANDESITE DYKES  
 Same lithology as above  
 Commonly porphyritic - "feldspar porphyry"  
 Contacts vary between diffuse gradational to sharp and often sheared  
 Cuts all other lithologies (except diorite?)  
 Most trend north-northwest

4 DACITIC - ANDESITIC LAPILLI TUFFS  
 Coarse dark grey to purplish in colour  
 Nodular form common in drill core, often logged as nodular tuff  
 Secondary biotite common, giving well developed fabrics  
 Generally show pervasive silicification, pyritization and lesser k-feldspar alteration

3 SILICEOUS FELSIC TUFFS  
 Fine grained, light blue-grey in colour  
 May include minor highly altered sediments  
 Generally pervasive silicification, pyritization and k-feldspar alteration  
 Strongly bleached, leached, with distinctive yellow brown gossanous weathered skin in strongly altered areas

2 SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS  
 Very siliceous, white sugary textured  
 Minor pyrite <1%  
 Sericite common  
 Pink Fe-oxide stain distinctive on weathered surface  
 Gradational with (3) in some areas

1 PENINSULAR FORMATION/BOULDER CONGLOMERATE  
 Well rounded granitic boulders floating in dark chloritized andesitic matrix

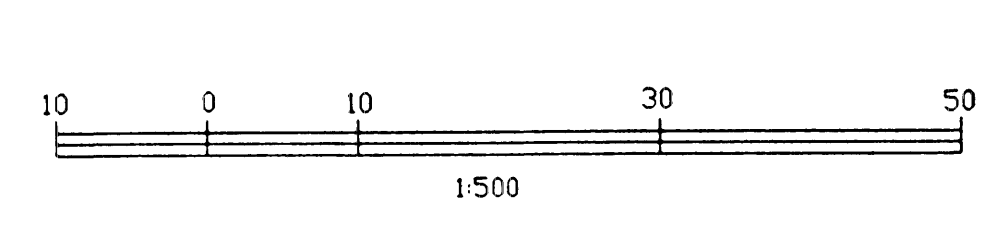
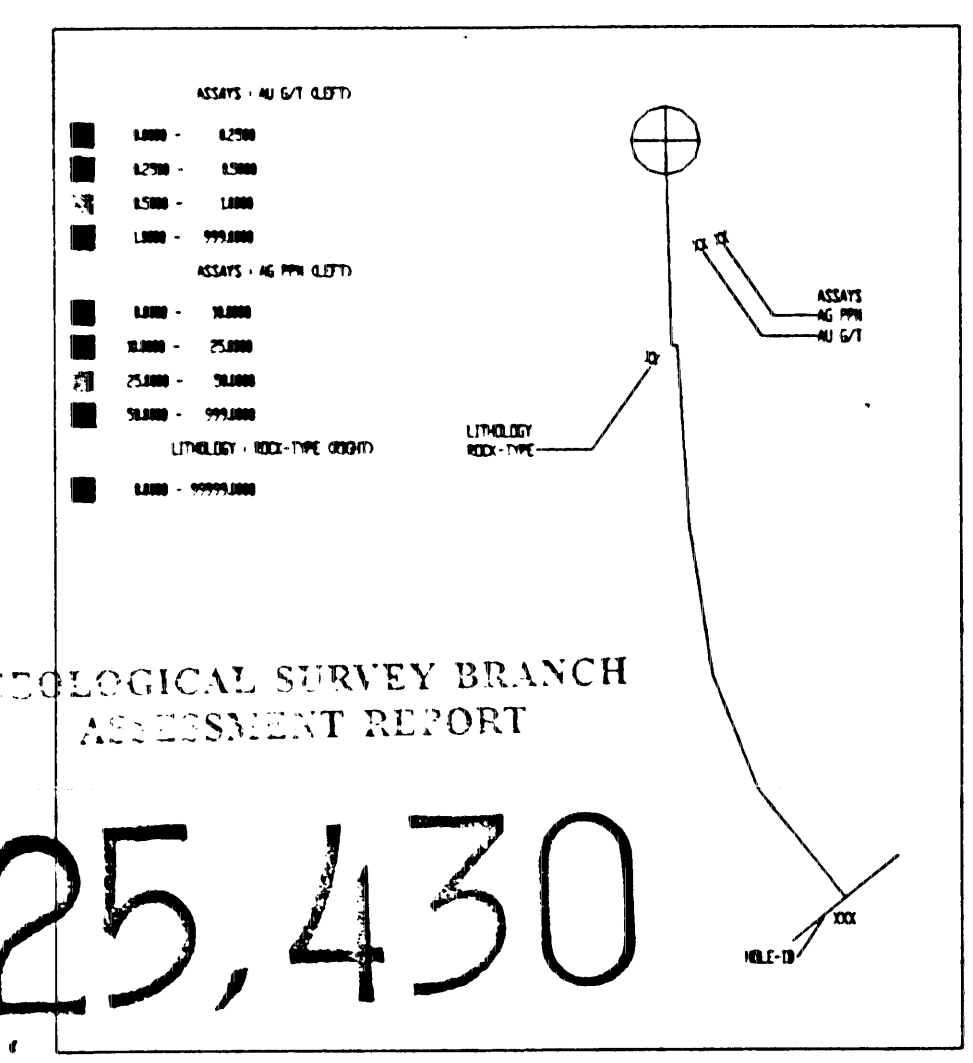
Alteration/Textures

0 No distinctive alteration  
 1 Silica  
 2 Chlorite  
 3 Carbonate  
 4 K-spar  
 5 Sericite  
 6 Graphite  
 7 Mylonitic  
 8 Foliated/schistose  
 9 Brecciated

Mineralization

0 No mineralization  
 1 Minor pyrite  
 2 Moderate pyrite  
 3 Abundant pyrite  
 4 Trace PbS/ZnS & Py  
 5 Moderate PbS/ZnS no pyrite  
 6 Barite  
 7 Chalcopyrite

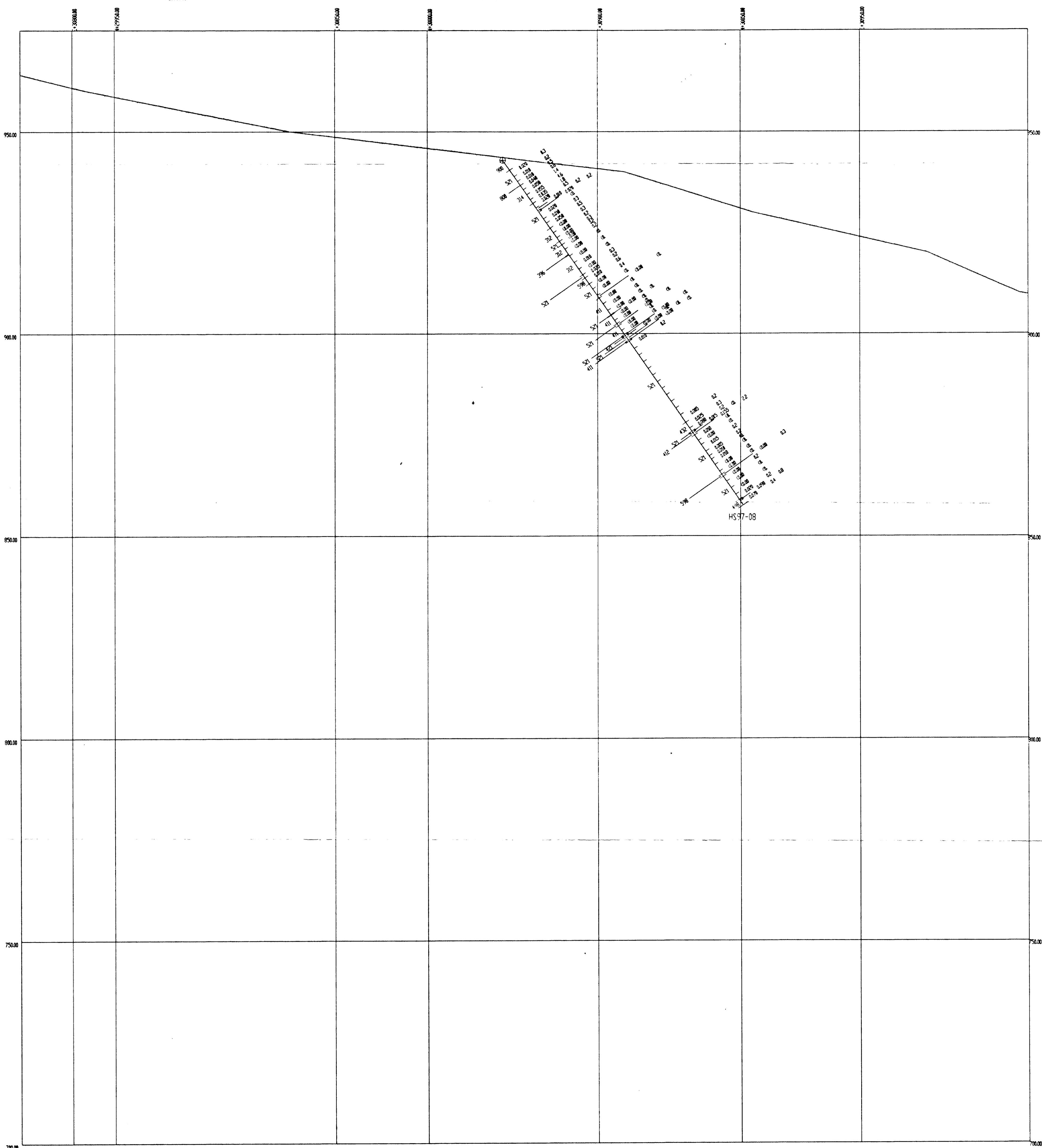
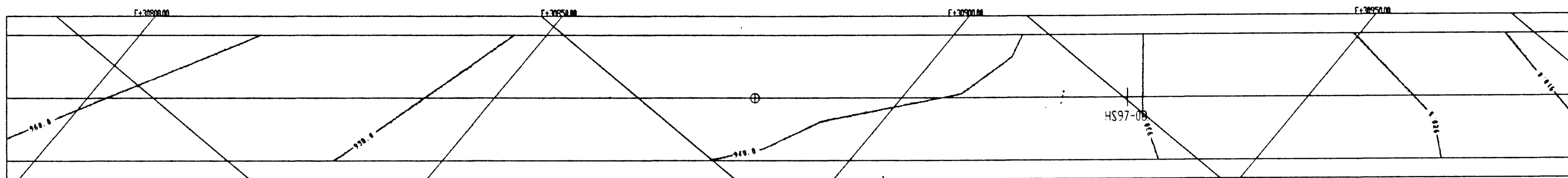
Example: 412 = Moderately pyritic silicified nodular andesitic tuff.



Mt. HOPE RESOURCES CORPORATION  
 HARRISON LAKE PROJECT

CROSS SECTION 3-3  
 DDH HS97-6,7

DRAWN BY: SCALE: 1:500 DATE: Jan. 1998 FIGURE: 12



**MOUNT HOPE RESOURCES CORPORATION**  
 1918-925 West Georgia St., Vancouver, B.C., V6C 3L2  
 Coding System - Harrison Lake Project

**Rock Type**

9 OVERBURDEN/CASING  
 No ore recovered  
 Overburden

8 ANDESITE TUFFS  
 Medium green fine grained silicified matrix  
 Abundant feldspar tuffaceous fragments  
 0-5% fine grained mafic tuffaceous fragments

7 PALE GREEN TUFF  
 Pale green and highly siliceous  
 Very fine grained with ghost feldspar tuffaceous fragments  
 May be banded  
 Not mapped in surface exposures

6 BIOTITE-HORNBLende DIORITE  
 Unaltered, medium to fine grained contains xenolithic blocks of andesite near contact

5 ANDESITE FLOWS/HIGH LEVEL INTRUSIVES  
 Massive undifferentiated multi-jointed  
 Gray black to greenish black in colour  
 Variably porphyritic  
 Extensive chlorite alteration, lesser epidote alteration  
 Pyrite almost universally present, 1-15% disseminated and locally richer on fracture surfaces

**ANDESITE DINKS**  
 Same lithology as above  
 Commonly porphyritic - "feldspar porphyry"  
 Contacts vary between diffuse gradational to sharp and often sheared  
 Cuts all other lithologies (except diorite?)  
 Most trend north-northwest

4 DACTIC - ANDESITIC LAPILLI TUFFS  
 Coarse dark gray to purplish in colour  
 Nodular form common in drill core, often logged as nodular tuff  
 Secondary biotite common, giving well developed fabrics  
 Generally show pervasive silicification, pyritization and lesser k-feldspar alteration

3 SILICEOUS FELSIC TUFFS  
 Fine grained, light blue-grey in colour  
 May include minor highly altered sediments?  
 Generally pervasive silicification, pyritization and k-feldspar alteration  
 Strongly bleached, leached, with distinctive yellow brown gossanous weathered skin in strongly altered areas

2 SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS  
 Very siliceous, white sugary textured  
 Minor pyrite <1%  
 Sericite common  
 Pink Fe-oxide stain distinctive on weathered surface  
 Gradational with (3) in some areas

1 PENINSULAR FORMATION/BOULDER CONGLOMERATE  
 Well rounded granitic boulders floating in dark chloritized andesitic matrix

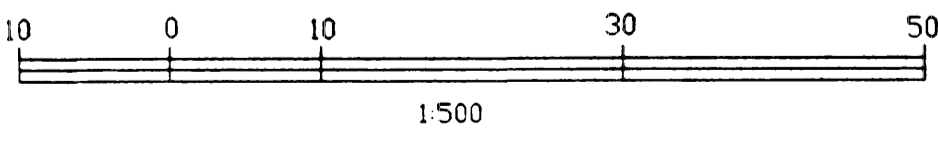
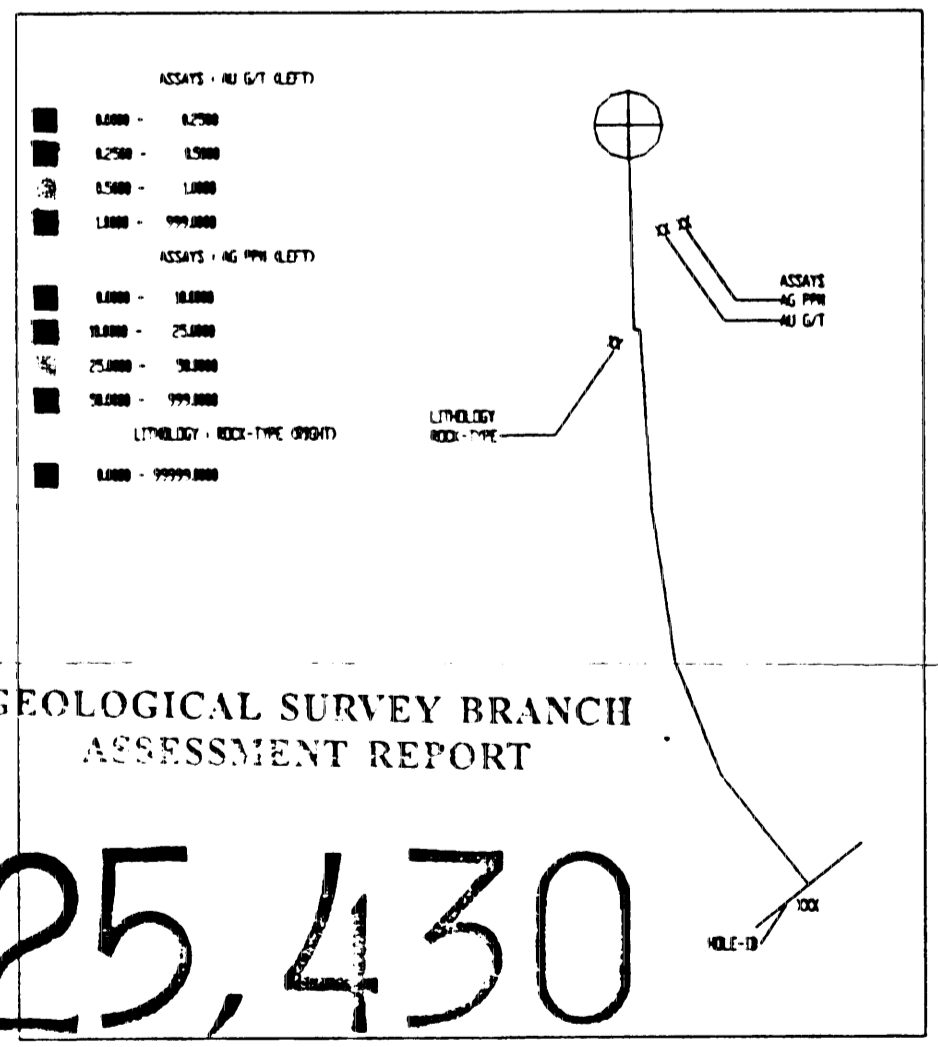
**Alteration/Textures**

0 No distinctive alteration  
 1 Silica  
 2 Chlorite  
 3 Carbonate  
 4 K-spar  
 5 Sericite  
 6 Graphite  
 7 Mylonitic  
 8 Foliated/schistose  
 9 Brecciated

**Mineralization**

0 No mineralization  
 1 Minor pyrite  
 2 Moderate pyrite  
 3 Abundant pyrite  
 4 Trace PbS/ZnS & Py  
 5 Moderate PbS/ZnS no pyrite  
 6 Barite  
 7 Chalcopyrite

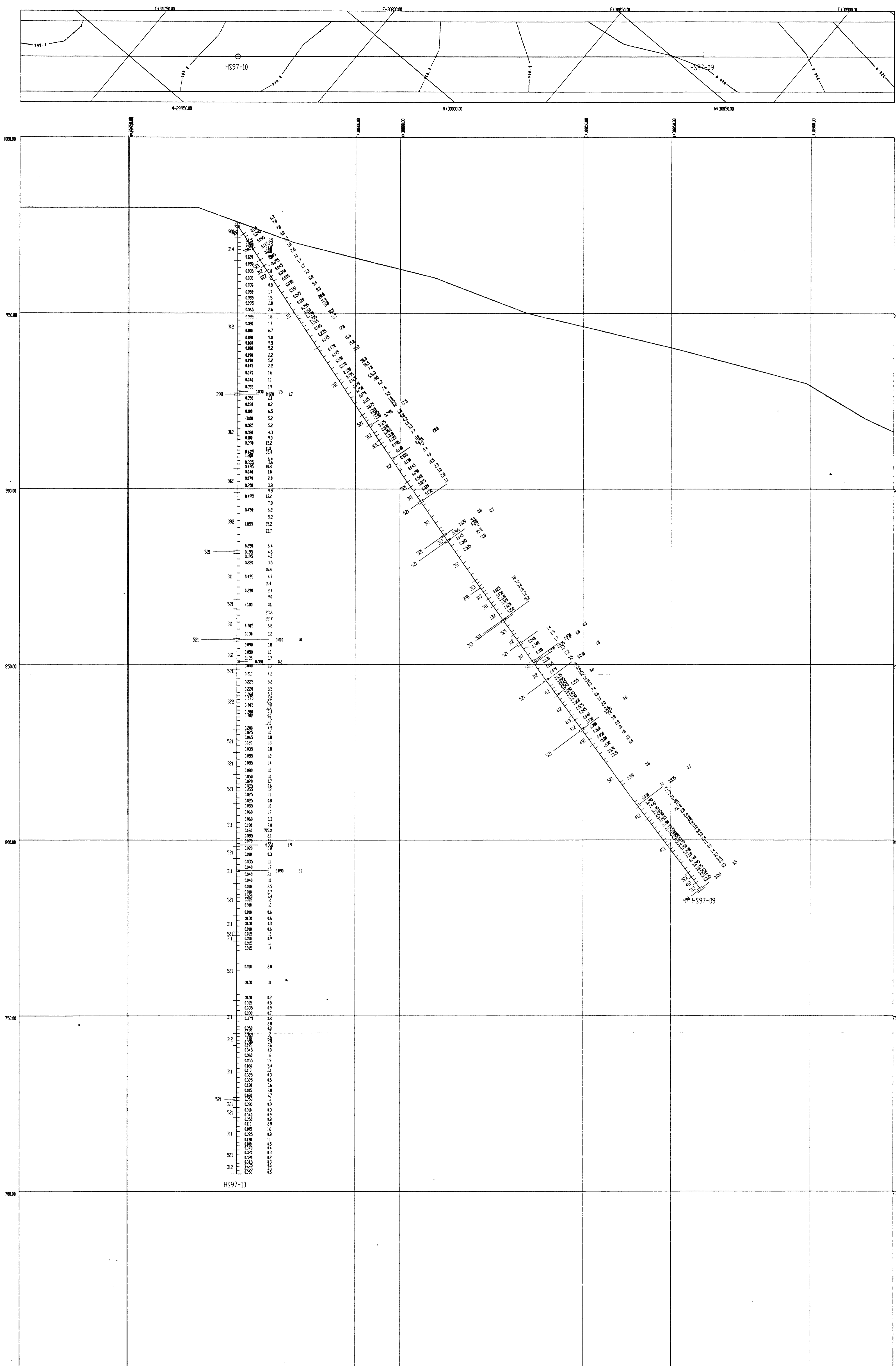
Example: 412 = Moderately pyritic silicified nodular andesitic tuff.



**Mt. HOPE RESOURCES CORPORATION**  
**HARRISON LAKE PROJECT**

**CROSS SECTION 5-5** (3)  
**DDH HS97-8**

DRAWN BY: SCALE: 1:500 DATE: Jan. 1998 FIGURE: 13



MOUNT HOPE RESOURCES CORPORATION  
 1918-925 West Georgia St., Vancouver, B.C., V6C 3L2  
 Coding System - Harrison Lake Project

**Rock Type**

9 OVERBURDEN/CASING  
 No ore recovered  
 Overburden

8 ANDESITE TUFFS  
 Medium green fine grained silicified matrix  
 Abundant feldspar tuffaceous fragments  
 0-2% fine grained mafic tuffaceous fragments

7 PALE GREEN TUFF  
 Pale green and highly siliceous  
 Very fine grained with ghost feldspar tuffaceous fragments  
 May be banded  
 Not mapped in surface exposures

6 BIOTITE-HORNBLÉNDE DIORITE  
 Unaltered, medium to fine grained contains xenolithic blocks of andesite near contact

5 ANDESITE FLOWS/HIGH LEVEL INTRUSIVES  
 Massive undifferentiated multi-jointed  
 Grey black to greenish black in colour  
 Variously porphyritic  
 Extensive chlorite alteration, lesser epidote alteration  
 Pyrite almost universally present, 1-15% disseminated and locally richer on fracture surfaces  
**ANDESITE Dikes**  
 Same lithology as above  
 Commonly porphyritic - "feldspar porphyry"  
 Contacts vary between diffuse gradational to sharp and often sheared  
 Cuts all other lithologies (except diorite)  
 Most trend north-northwest

4 DACITIC - ANDESITIC LAPILLI TUFFS  
 Colours dark grey to purplish in colour  
 Nodular form common in drill core, often logged as nodular tuff  
 Secondary biotite common, giving well developed fabrics  
 Generally show pervasive silicification, pyritization and lesser K-feldspar alteration

3 SILICEOUS FELSIC TUFFS  
 Fine grained, light blue-grey in colour  
 May include minor highly altered sediments?  
 Generally pervasive silicification, pyritization and K-feldspar alteration  
 Strongly bleached, leached, with distinctive yellow brown gossanous weathered skin in strongly altered areas

2 SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS  
 Very siliceous white sugary textured  
 Minor pyrite <1%  
 Sericite common  
 Pink Fe-oxide when distinctive on weathered surface  
 Gradational with (3) in some areas

1 PENINSULAR FORMATION BOULDER CONGLOMERATE  
 Well rounded granitic boulders floating in dark chloritized andesitic matrix

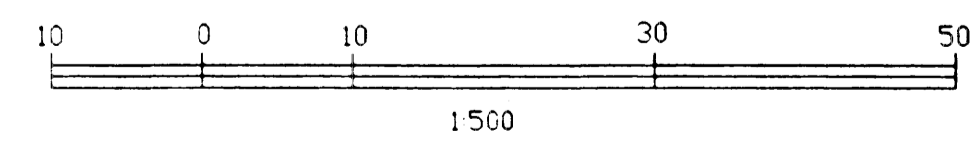
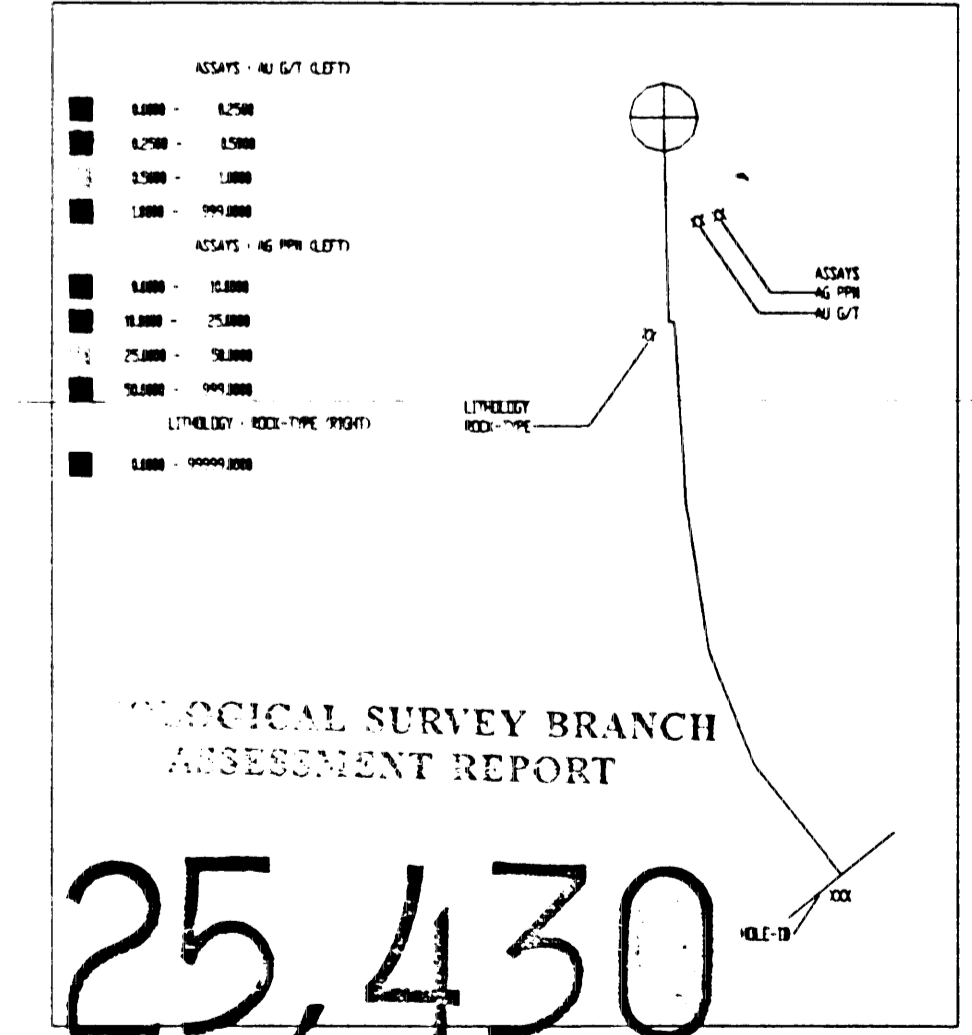
**Alteration/Textures**

0 No distinctive alteration  
 1 Silica  
 2 Chlorite  
 3 Carbonate  
 4 K-spar  
 5 Sericite  
 6 Granite  
 7 Mica  
 8 Faintly schistose  
 9 Brecciated

**Mineralization**

0 No mineralization  
 1 Minor pyrite  
 2 Moderate pyrite  
 3 Abundant pyrite  
 4 Trace PbS/ZnS & Py  
 5 Moderate PbS/ZnS no pyrite  
 6 Barite  
 7 Chalcopyrite

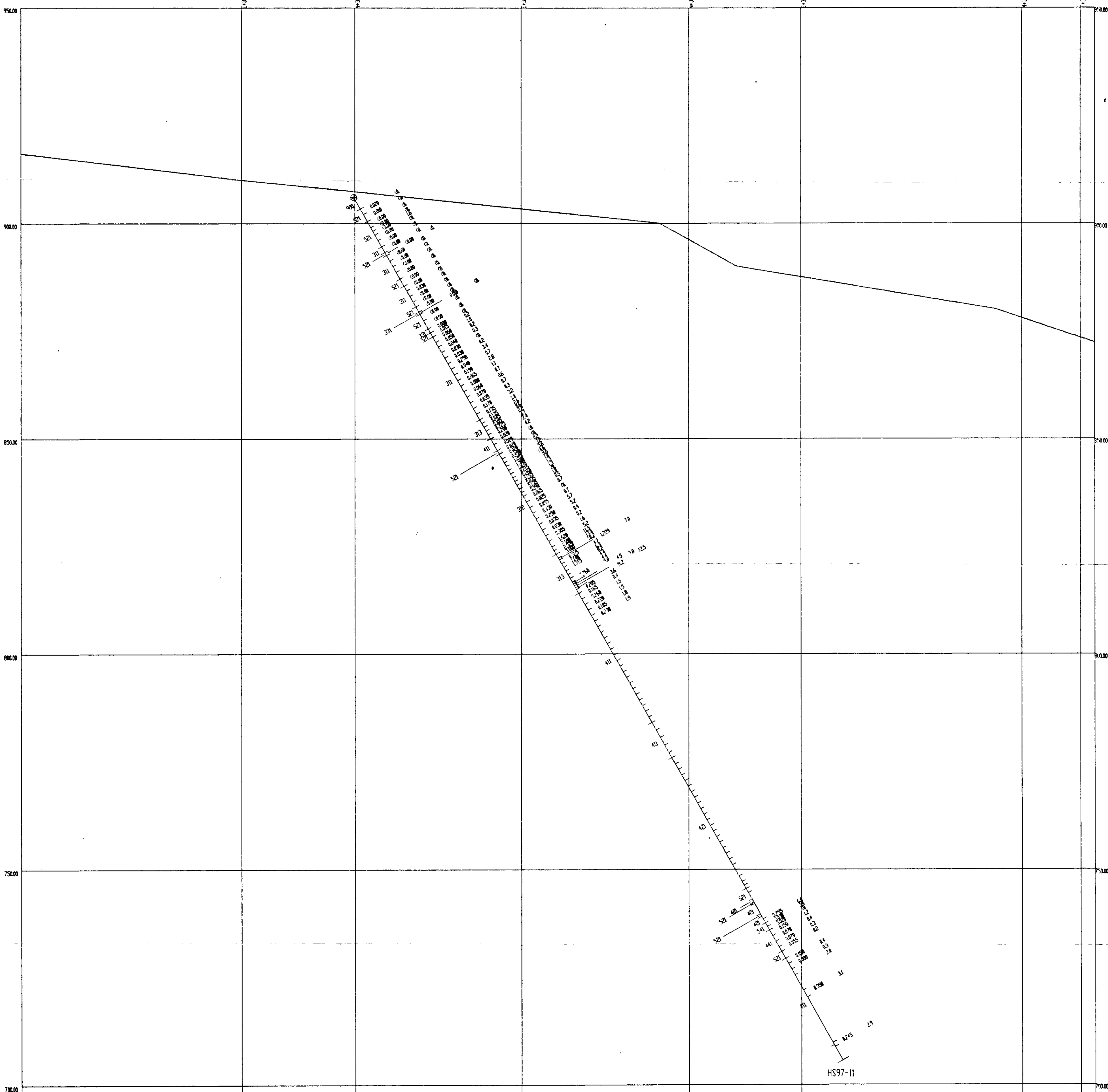
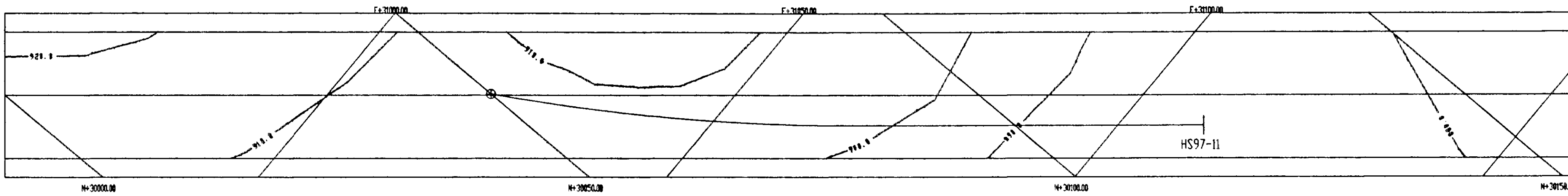
Example: 412 = Moderately pyritic silicified nodular andesitic tuff.



Mt. HOPE RESOURCES CORPORATION  
 HARRISON LAKE PROJECT

CROSS SECTION 6-6 (4)  
 DDH HS97-9,10

DRAWN BY: SCALE: 1:500 DATE: Jan. 1998 FIGURE: 14



**MOUNT HOPE RESOURCES CORPORATION**  
 1918-925 West Georgia St., Vancouver, B.C., V6C 3L2

**Coding System - Harrison Lake Project**

**Rock Type**

9 OVERBURDEN/CASING  
 No ore recovered  
 Overburden

8 ANDESITE TUFFS  
 Medium green fine grained silicified matrix  
 Abundant feldspar tuffaceous fragments  
 0-5% fine grained mafic tuffaceous fragments

7 PALE GREEN TUFF  
 Pale green and highly siliceous  
 Very fine grained with ghost feldspar tuffaceous fragments  
 May be banded  
 Not mapped in surface exposures

6 BIOTITE-HORNBLende DIORITE  
 Unaltered, medium to fine grained contains xenolithic blocks of andesite near contact

5 ANDESITE FLOWS/HIGH LEVEL INTRUSIVES  
 Massive undifferentiated multi-jointed  
 Grey black to greenish black in colour  
 Variably porphyritic  
 Extensive chlorite alteration, lesser epidote alteration  
 Pyrite almost universally present, 1-15% disseminated and locally richer on fracture surfaces

**ANDESITE DYKES**  
 Same lithology as above  
 Commonly porphyritic - "feldspar porphyry"  
 Contacts vary between diffuse gradational to sharp and often sheared  
 Cuts all other lithologies (except diorite?)  
 Most trend north-northwest

4 DACITIC - ANDESITIC LAPILLI TUFFS  
 Coarse dark grey to purplish in colour  
 Nodular form common in drill core, often logged as nodular tuff  
 Secondary biotite common, giving well developed fabrics  
 Generally show pervasive silicification, pyritization and lesser K-feldspar alteration

3 SILICEOUS FELSIC TUFFS  
 Fine grained, light blue-grey in colour  
 May include minor highly altered sediments?  
 Generally pervasive silicification, pyritization and K-feldspar alteration  
 Strongly bleached, leached, with distinctive yellow brown gossanous weathered skin in strongly altered areas

2 SILICEOUS (SUGARY TEXTURED) FELSIC TUFFS  
 Very siliceous, white sugary textured  
 Minor pyrite <1%  
 Sericite common  
 Pink Fe-oxide stain distinctive on weathered surface  
 Gradational with (3) in some areas

1 PENINSULAR FORMATION/BOULDER CONGLOMERATE  
 Well rounded granitic boulders floating in dark chloritized andesitic matrix

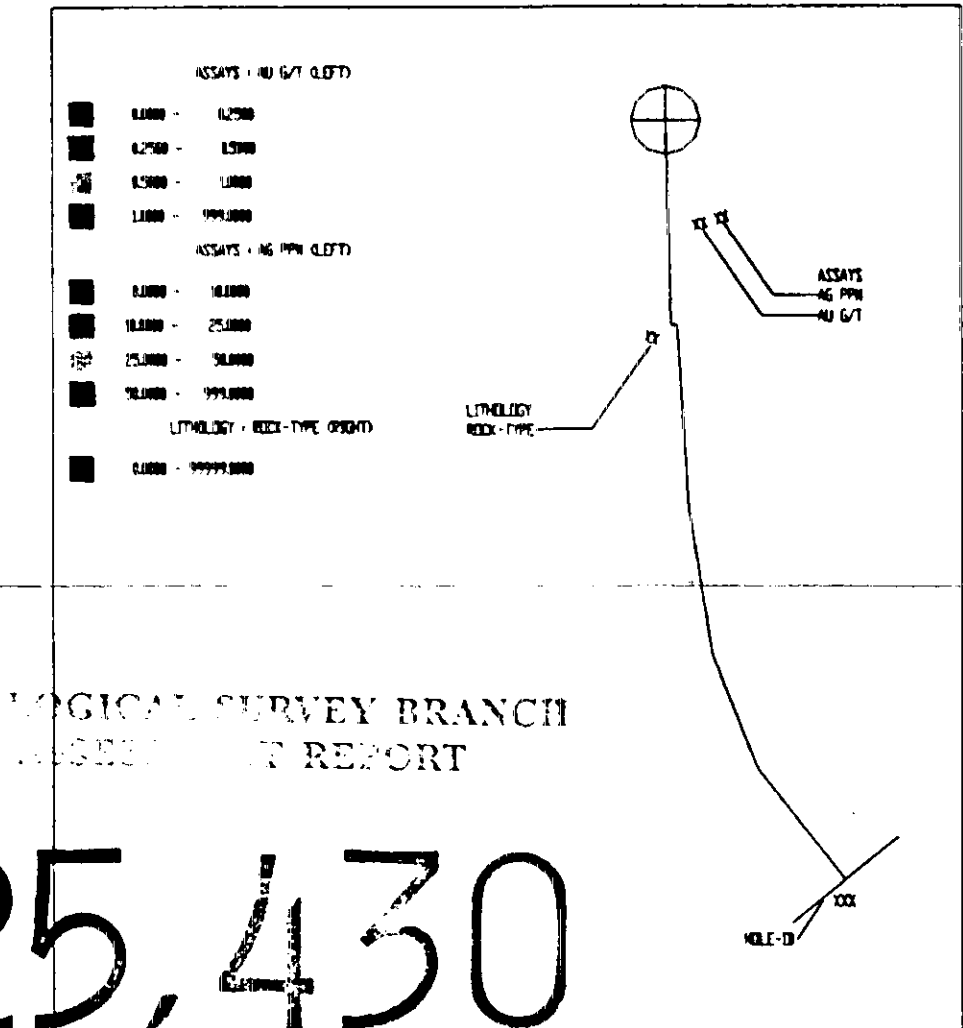
**Alteration/Textures**

0 No distinctive alteration  
 1 Silica  
 2 Chlorite  
 3 Carbonate  
 4 K-feldspar  
 5 Sericite  
 6 Graphite  
 7 Micritic  
 8 Foliated/schistose  
 9 Brecciated

**Mineralization**

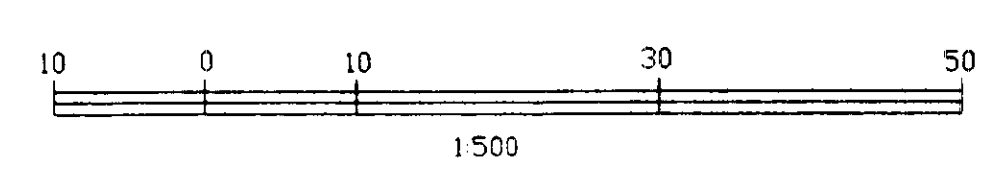
0 No mineralization  
 1 Minor pyrite  
 2 Moderate pyrite  
 3 Abundant pyrite  
 4 Trace PbS/ZnS & Py  
 5 Moderate PbS/ZnS no pyrite  
 6 Bante  
 7 Chalcopyrite

Example: 412 = Moderately pyritic silicified nodular andesitic tuff.



**GEOLOGICAL SURVEY BRANCH**  
**ALBERTA**  
**REPORT**

**25,430**



**Mt. HOPE RESOURCES CORPORATION**  
**HARRISON LAKE PROJECT**

**CROSS SECTION 4-4** (5)  
**DDH HS97-11**

**DRAWN BY:** **SCALE:** 1:500 **DATE:** Jan. 1998 **FIGURE:** 15