

NTS: 104B/14W

Report on Exploration Work  
Performed on the  
Hoodoo West Claim Group  
Iskut River Area  
Liard Mining Division  
British Columbia

825783

56°47' North Latitude  
131°24' West Longitude

September 10, 1984

R. J. Fraser  
Kerr Addison Mines Ltd.

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                      1:600,000
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                      1:50,000
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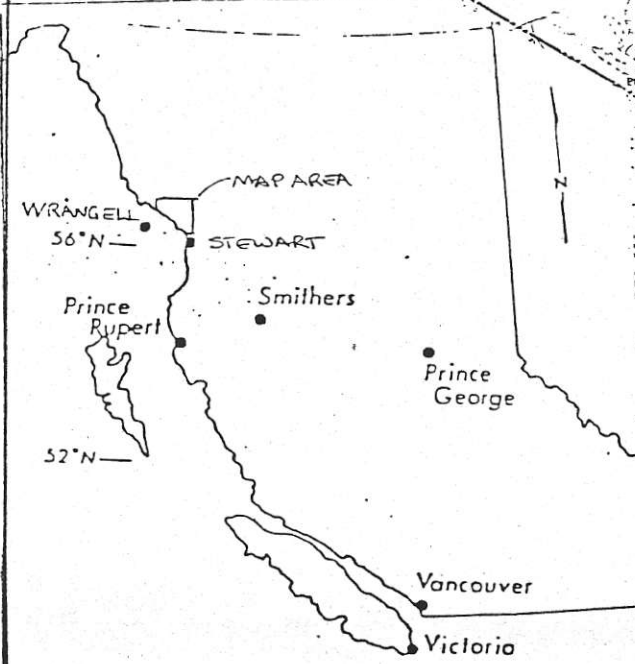
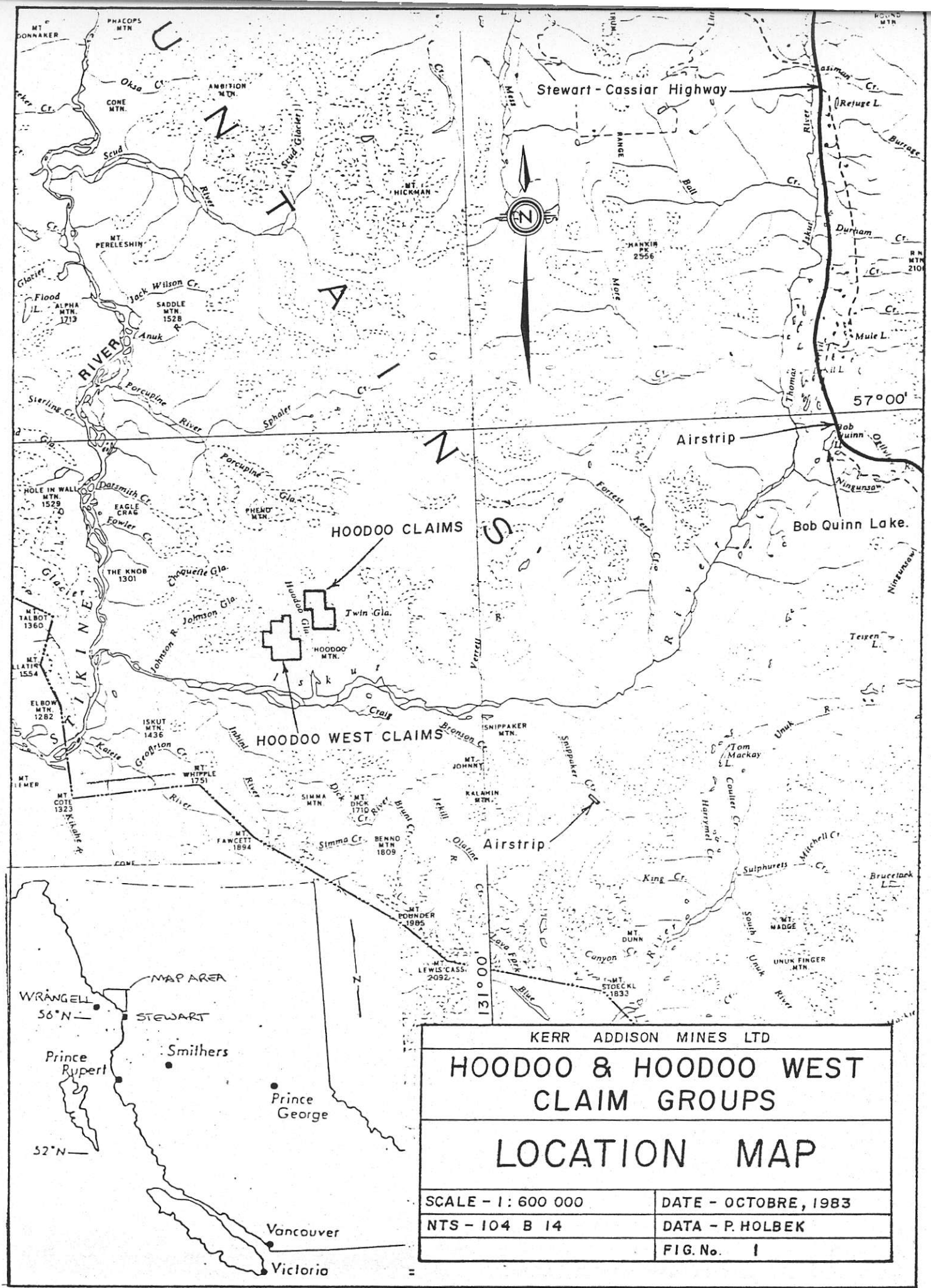
## 1. INTRODUCTION

The Hoodoo West property consists of 5 unpatented mining claims comprising 70 units. The claims are named Hoodoo West 1, 2, 3, 4 and 6 and have record numbers 2919 to 2923 respectively. They were staked on August 11 and 12, 1983 by company personnel and recorded on September 8, 1983.

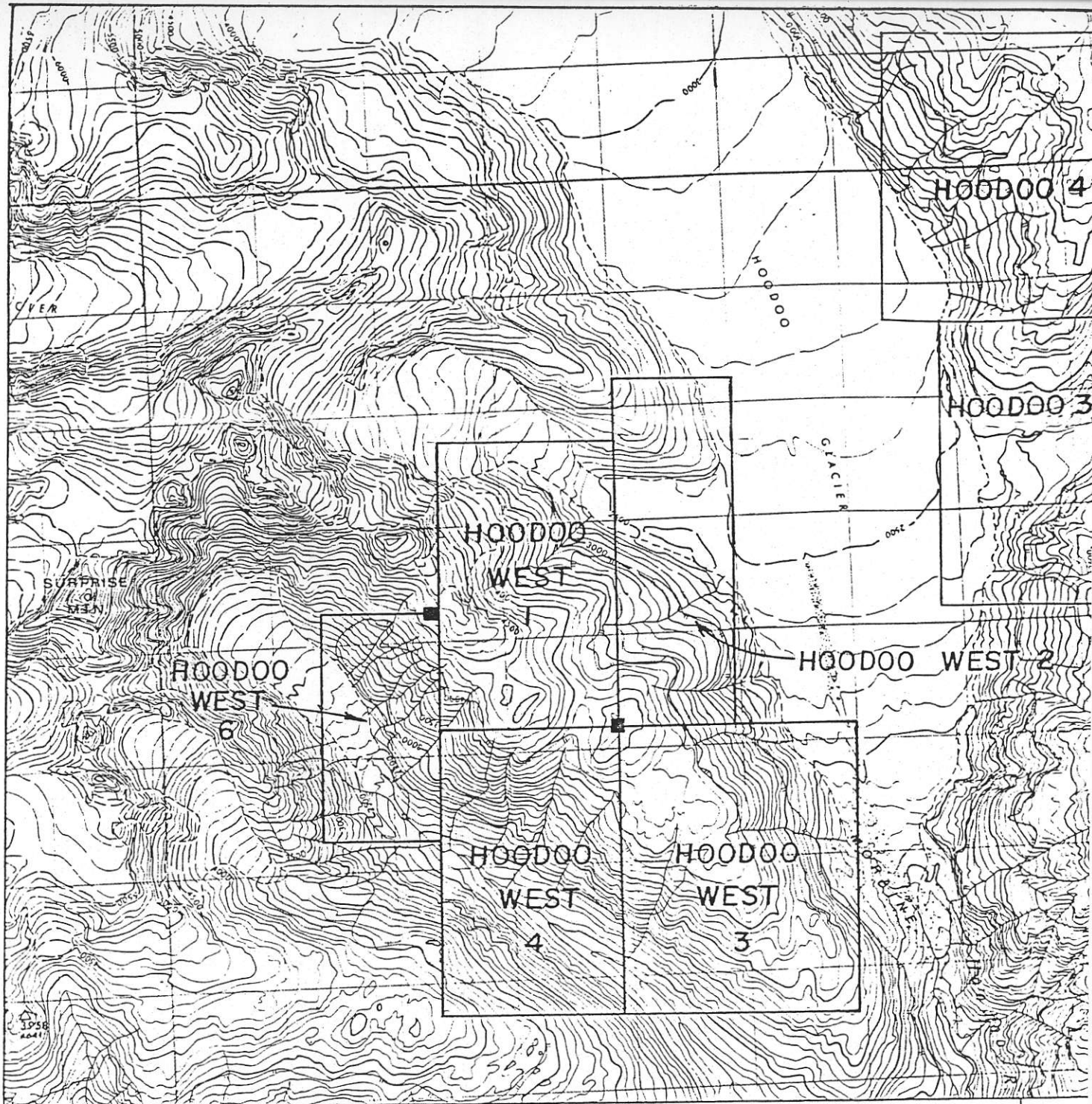
The claims are situated immediately to the west of Hoodoo glacier between Hoodoo Mountain to the east and Surprise Mountain to the west and approximately 8 kilometers north of the Iskut River. The nearest Canadian settlement to the property is Stewart, B.C., approximately 125 kilometers to the south. (Figures 1 and 2).

The claims lie within the Liard Mining Division, British Columbia, NTS: 104B/14W at latitude 56°47' North and longitude 131°24' West.

Access to the claim group is by helicopter from a gravel airstrip situated on Snippaker Creek 47 kilometers to the southeast. During the summer Trans Provincial Airlines runs frequent scheduled service to the airstrip from Terrace and Dease Lake, British Columbia.



KERR ADDISON MINES LTD	
HOODOO & HOODOO WEST CLAIM GROUPS	
LOCATION MAP	
SCALE - 1 : 600 000	DATE - OCTOBRE, 1983
NTS - 104 B 14	DATA - P. HOLBEK
	FIG.No. 1



131° 25'

20'

KERR ADDISON MINES LTD	
HOODOO WEST CLAIMS	
LOCATION MAP	
SCALE - 1:50 000	DATE - OCTOBER, 1983
NTS - 104 B 14	FIG.No. 2

## 2. SUMMARY and CONCLUSIONS

A brief program of rock trenching, sampling and geophysical surveying was undertaken on the Hoodoo West claims during the 1984 field season.

The purpose of the investigation was to further evaluate Pb-Zn-Ag mineralization encountered during the 1983 field season.

One rock trench, 3.3m x 1.0m x 0.5m, was blasted into the principal mineralized showing, the Heather Vein. Mineralization was found to consist of argentiferous galena and sphalerite veins, 1-2cm in width occurring in fractures and joints within a 1 meter wide, fault-bound quartz feldspar porphyry dyke. The wall rocks to the dyke are highly sheared and badly rotted with no visible fresh material. They are also anomalous in base and precious metals.

One test line of VLF-EM surveying was completed with no conductive material of significance outlined.

Other mineralized occurrences on the claim group consist of small, sporadic pods, 1cm in width, of galena and sphalerite associated with small clay filled shears in felsic volcanic and subvolcanic rocks.

No further work is recommended on the Hoodoo West claims at the present time.

### 3. PREVIOUS WORK

During the 1983 field season, Kerr Addison personnel prospected the Hoodoo West claims and collected seventeen soil samples and twenty-seven rock samples. A limited amount of hand trenching was undertaken in the vicinity of an outcrop of argentiferous Pb-Zn mineralization.

Three distinct types of mineralization were encountered on the claim group.

- a) Cu-Mo porphyry style mineralization
- b) Ag mineralization within hornfelsed volcanics
- c) Pb-Zn-Ag vein type mineralization

The latter type of mineralization was deemed to be of the most significance with grab samples of rock mineralized with galena and sphalerite grading up to 0.51% Cu, 6.93% Pb, 8.37% Zn, 49.52 oz/ton Ag and 0.094 oz/ton Au within the Heather vein. Unfortunately hand trenching failed to expose the mineralization other than at one locale due to the heavy talus and overburden cover.

For further details reference can be made to in house reports by Holbeck (1983) on Hoodoo West and the Stikine Plateau Project.

### 4. PRESENT WORK

During the 1984 field season a limited amount of work was undertaken on the property and consisted of a brief property examination, rock trenching to expose the Heather Vein and limited geophysical test work.

A much larger program had been proposed for the claims however discouraging results from rock trenching early in the program prompted curtailment to extensive exploration work.



## 5. GENERAL GEOLOGY

The claim group is situated on the contact between the Coast Range Crystalline Complex and the Intermontane Belt. The property itself is underlain by a series of mafic to intermediate volcanic rocks of probable Jurassic to Triassic Age and derived sedimentary rocks.

The volcanic and sedimentary rocks have been intruded by a plethora of intrusives which, in approximate order of emplacement, include quartz monzonite, granodiorite, hornblendite and quartz-feldspar porphyry.

A prominent ridge of rusty weathering and pyritic intermediate volcanic rocks is present in the south central part of the Hoodoo West 2 claim. This north facing rim of a cirque is sparingly mineralized with pyrite with local concentrations of galena and sphalerite. Mineralization appears to be confined to small fractures and related to intrusions of quartz-feldspar porphyry dykes.

Two of these areas were investigated in more detail, the Heather Vein and the South Vein (Figure 4).

## 6. TRENCHING and SAMPLING RESULTS

In order to assist in evaluation of Pb-Zn-Ag mineralization within the Heather Vein, one trench was blasted in outcrop. It was also considered desirable to try and determine the strike and dip of the mineralization to assist in orienting proposed geophysical test line.

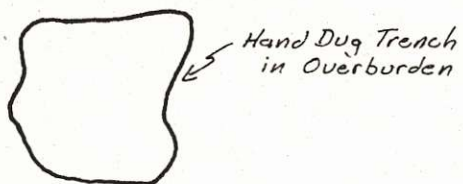
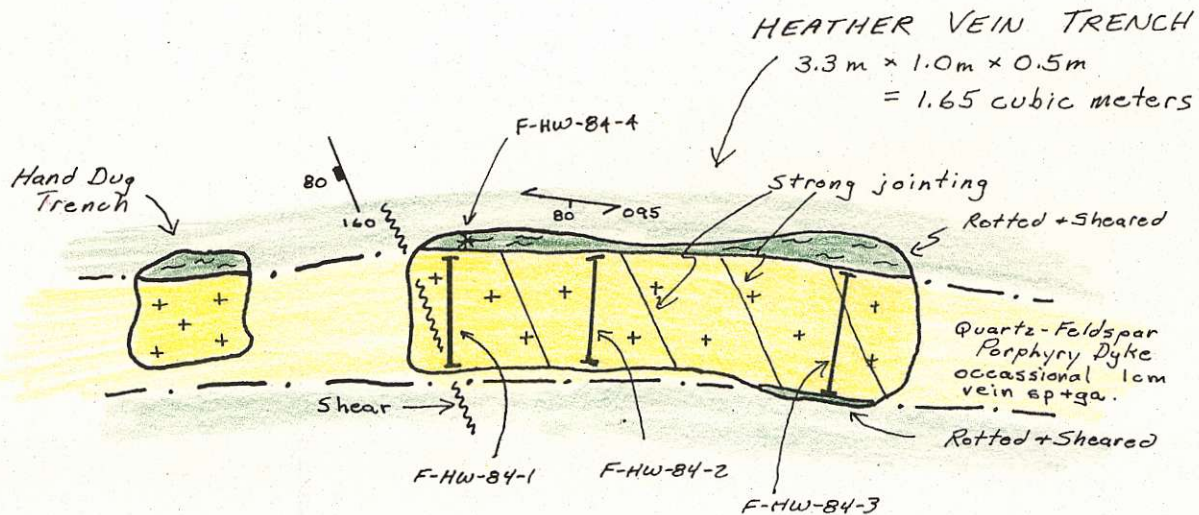
The nature of the overburden in the vicinity of the Heather Vein as well as incompetent wallrock, prevented trenching more than two feet in depth. Nonetheless fresh material was exposed for sampling and structural measurements. Assay results from sampling and a geological sketch map are included in Figure 3.

The Heather Vein was found to consist of several 1-2~~mm~~cm wide veins of massive sphalerite and galena occupying fractures and joints in a 1 meter wide quartz-feldspar porphyry dyke. The dyke trends east-west and dips steeply to the north. Assays of selected "hygrade" material range up to 3.40% Pb, 4.92% Zn, 0.014 oz/ton Au and 4.48 oz/ton Ag.

The wall rocks adjacent to the quartz-feldspar porphyry dyke are highly sheared, rotted and rusty weathering. No fresh rock or mineral fragments were seen. A selected grab sample of this material returned anomalous values in Pb and Zn and 5.98 oz/ton Ag. The material appears to lie within a fault adjacent to the quartz-feldspar porphyry through which mineralizing solutions migrated.

Complete assay results can be found in Appendix A.

The South Vein occurs approximately 75 meters higher in elevation and 250 meters south of the Heather Vein. It was sampled during the 1983 field season returning anomalous values in Au, Ag, Pb and Zn. The vein was re-examined in 1984 and found to consist of a weak clay filled shear, 1 to 5cm in width, associated with a coarse textured felsic volcanic tuff, in close proximity to a quartz-feldspar porphyry dyke. Locally, small pods, up to 1cm wide, of 50% galena occur within the clay filled shear. This vein probably represents type 2 mineralization; that within hornfelsed volcanics.



ASSAY RESULTS

Sample No.	Cu PPM	Pb PPM	Zn PPM	Sb PPM	As PPM	Au ppb	Ag ppm	Ag* oz/ton	Remarks
F-HW-84-1	80	468	850	50	280	35	17.5	0.56	0.7m Chip
F-HW-84-2	10	80	290	16	190	10	2.3	—	0.75m Chip
F-HW-84-3	85	450	950	81	105	30	33.0	0.92	0.90m Chip
F-HW-84-4	1700	710000	4800	710	2050	490	7100.0	5.98	Grab
F-HW-84-5	<.01%	1.93%	3.05%	—	680	.018* oz/t	—	2.30	Selected Grab
F-HW-84-6	<.01%	0.54%	0.56%	—	230	.010* oz/t	—	1.12	Selected Grab
F-HW-84-7	<.01%	3.90%	4.92%	—	1250	.014* oz/t	—	4.48	Selected Grab

\* FIRE ASSAY



1:50

GEOLOGY AND SAMPLE  
LOCATION MAP  
HEATHER VEIN

HOODOO WEST CLAIMS

10/9/84

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FIG. 3

Three grab samples were taken from two previous sampling sites, that were re-located and returned anomalous base and precious metal values, confirming the 1983 assay results.

Complete assay results are listed below and in Appendix A. Vein and sample locations are illustrated in Figure 4.

1983 ASSAY RESULTS

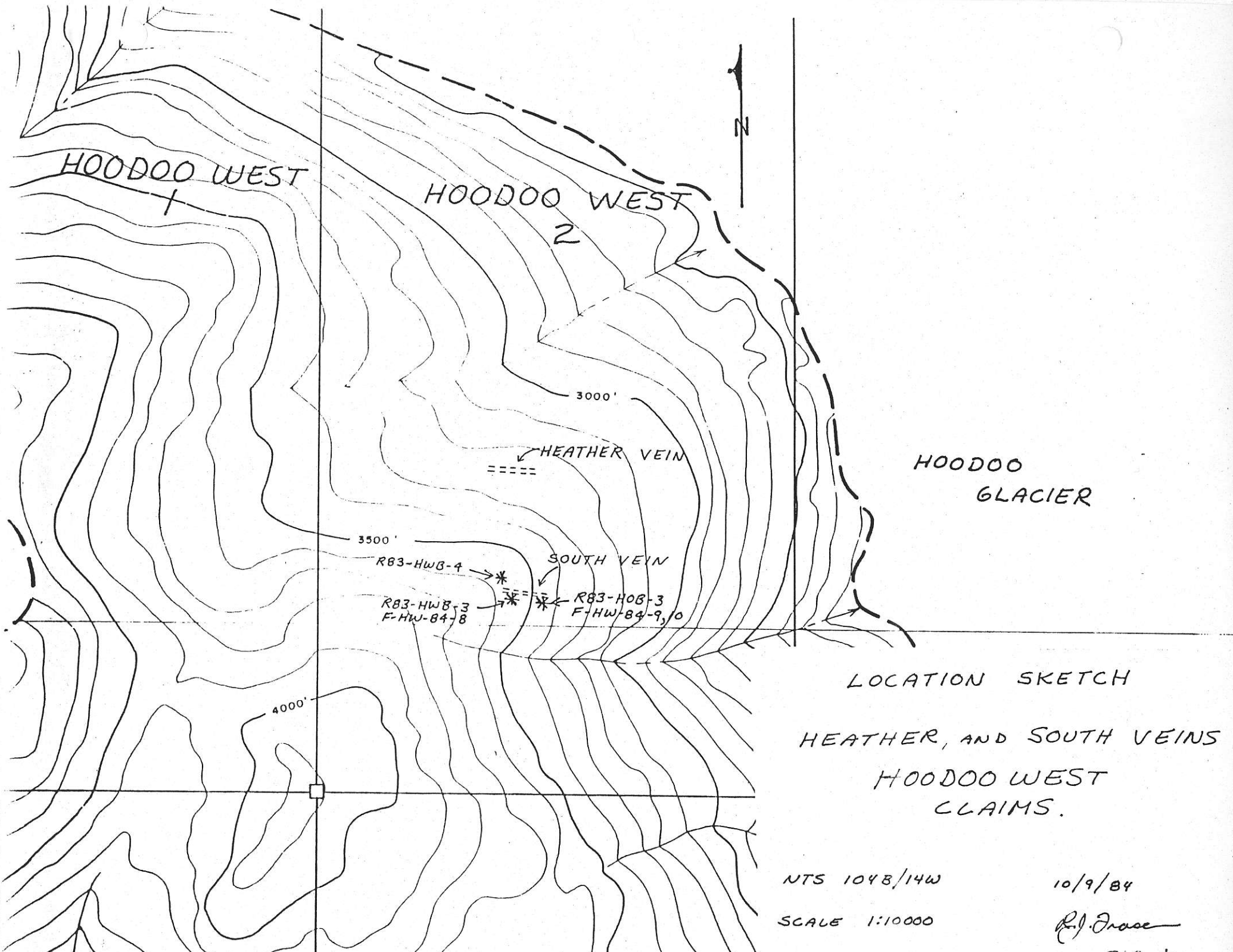
Sample No.	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Au ppb	Ag ppm	Ag Oz/t	Au Oz/t
R83-HOB-3	-	-	-	400	1000	10,000	500	-	-
R83-HWB-3	650	2350	3750	170	270	100	31.0	1.34	-
*R83-HWB-4	-	-	-	-	-	-	-	5.30	0.372

1984 ASSAY RESULTS

Sample No.	%Pb	%Zn	As ppm	Ag Oz/t	Au Oz/t	Remarks
F-HW-84-8	0.05	0.07	100	0.82	0.003	Dup. R83-HWB-3
F-HW-84-9	10.80	0.13	470	21.48	0.180	Dup. R83-HOB-3
F-HW-84-10	1.37	0.21	53	1.33	0.008	Dup. R83-HOB-3

\* Sample site could not be re-located.

Despite the highly anomalous results the mineralized structure is of little interest due to its narrow width and lack of continuity.



LOCATION SKETCH

HEATHER, AND SOUTH VEINS  
HOODOO WEST  
CLAIMS.

NTS 1048/14W

10/9/84

SCALE 1:10000

R.J. Drose

FIG 4

## 7. GEOPHYSICAL SURVEYING

It was originally proposed to run several geophysical test lines over the known mineralization on the Hoodoo West claims using DEEPEM Pulse and/or Induced Polarization, to try and find a satisfactory method to help to delineate this type of Pb-Zn-Ag mineralization.

The lack of significant quantities of mineralization prompted the cancellation of the test surveys. However, VLF-EM was attempted over both the Heather and South Veins with negative results. The Heather Vein gave a completely flat response while the South Vein area did give rise to an extremely weak conductive zone, related to a fault, and not to mineralization. The results of the VLF Survey on the South Vein are shown in Figure 5.


## CONCLUSIONS

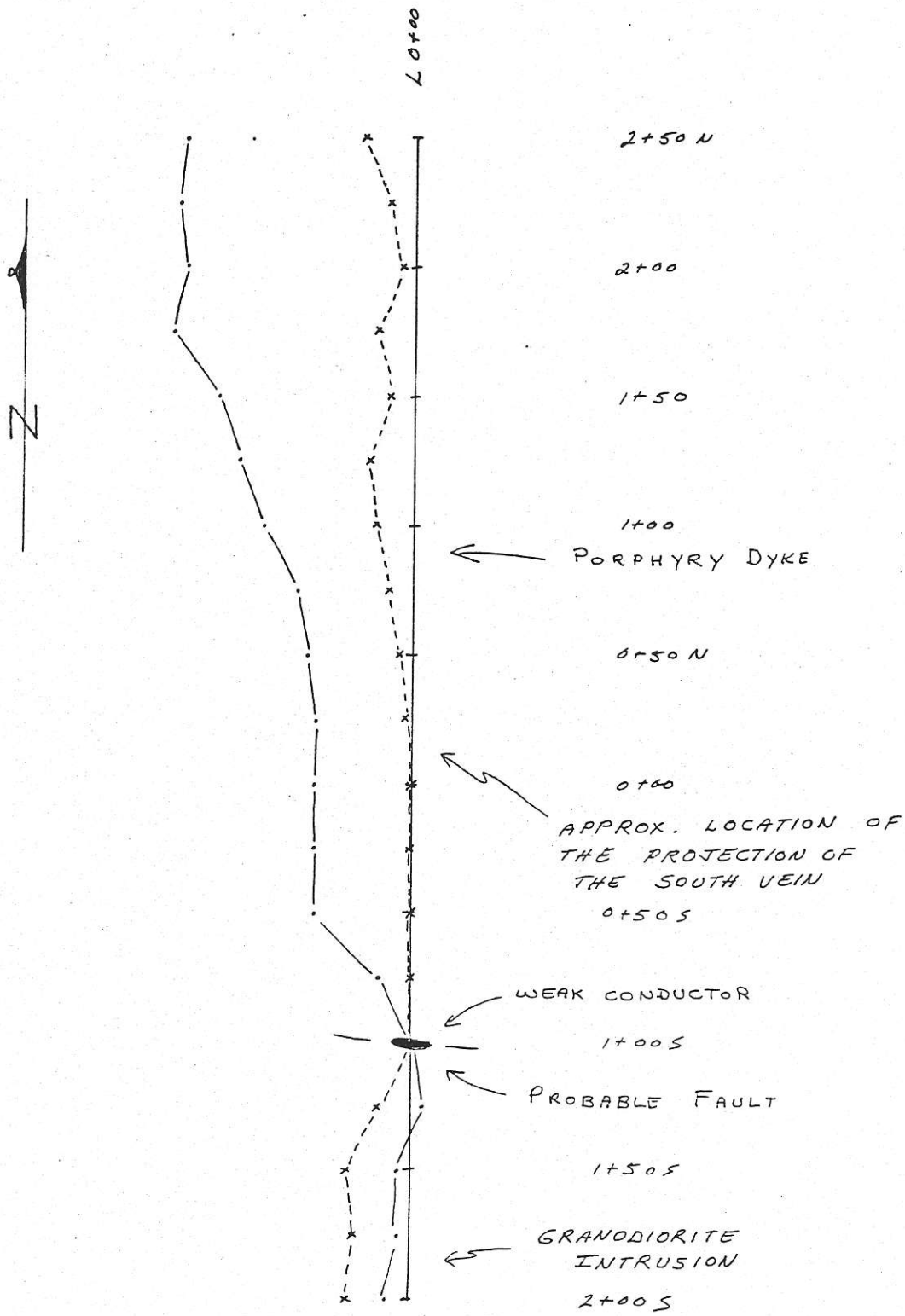
Trenching on the Heather Vein and its associated Pb-Zn-Ag mineralization at an early stage in the 1984 exploration program failed to reveal significant quantities of mineralization such as encountered during the 1983 season. A few narrow, 1-2m wide, veins of sphalerite and galena were found occurring as fracture and joint fillings within a fault-bound quartz-feldspar porphyry dyke

Despite the presence of appreciable silver mineralization, continuity to the mineralization is poor and there are no significant widths to both the Heather and the South Vein.

VLF-EM surveying over the mineralized structures failed to detect any conductive zones of interest.

No further work is warranted on this property at the present time.

  
R. J. Fraser  
Kerr Addison Mines Ltd.



CUTLER, MAINE 24.0 KHz.

-ve RGS LEFT OF LINE

+ve RGS RIGHT OF LINE

— IN-PHASE

x---x QUADRATURE

1 cm = 10%

EM-16 TEST LINE

HOODOO WEST CLAIMS

SOUTH SHOWING

SCALE 1:2500

10/8/84

FIG. 5

*R. J. Chase*

9. REFERENCES

Holbeck, P. - 1983

Report on the Geology and Geochemistry of the Hoodoo West Claim Group. Unpublished company report, Kerr Addison Mines Ltd.

Holbeck, P. - 1983

Summary Report on the Stikine Plateau Project. Unpublished company report, Kerr Addison Mines Ltd.



APPENDIX A

Rock Sampling Assay Results



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

RECEIVED  
212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
SEP 12 1984  
KERR ADDISON MINES  
Telephone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : KERR ADDISON MINES LTD.  
(ATTN: RAY DUJARDIN)  
703 - 1112 W. PENDER ST.  
VANCOUVER, B.C.  
V6E 2S1

CERT. # : A8415235-001-  
INVOICE # : I8415235  
DATE : 11-SEP-84  
P.O. # : NONE  
B-12

Sample description	Prep code	Pb %	Zn %	Sb NAA %	Ag FA oz/T	Au FA oz/T	
F-HW-84-8	207	0.05	0.07	0.019	0.82	<0.003	--
F-HW-84-9	207	10.80	0.13	0.060	21.48	0.180	--
F-HW-84-10	207	1.37	0.21	0.004	1.33	0.008	--

.....  
Registered Assayer, Province of British Columbia





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RECEIVED  
 212-Banksbank Ave.  
 North Vancouver, B.C.  
 Canada V7L 2C1  
 KERR ADDISON MINES LTD.  
 Telephone: (604) 984-0221  
 Telex: 043-52597

## CERTIFICATE OF ANALYSIS

TO : KERR ADDISON MINES LTD.  
 (ATTN: RAY DUJARDIN)  
 703 - 1112 W. PENDER ST.  
 VANCOUVER, B.C.  
 V6E 2S1

CERT. # : A8415235-001-A  
 INVOICE # : I8415235  
 DATE : 11-SEP-84  
 P.O. # : NONE  
 B-12

Sample description	Prep code	AS ppm						
F-HW-84-8	207	100	--	--	--	--	--	--
F-HW-84-9	207	470	--	--	--	--	--	--
F-HW-84-10	207	53	--	--	--	--	--	--



Certified by ..... *Hart Bichler* .....



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AUG 13 1984

2112 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
Telephone: (604) 984-0221  
Telex: 043-52597  
KERR ADDISON MINES LTD.

## CERTIFICATE OF ANALYSIS

TO : KERR ADDISON MINES LTD.  
(ATTN: RAY DUJARDIN)  
703 - 1112 W. PENDER ST.  
VANCOUVER, B.C.  
V6E 2S1

CERT. # : A8414312-001-  
INVOICE # : I8414312  
DATE : 8-AUG-84  
P.O. # : 24777  
B-12

*Howard West*

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Sb ppm
<i>left side</i> F-HW-84-1 <i>0.7"</i>	205	80	460	850	17.5	280	50.0
F-HW-84-2 <i>0.75"</i>	205	10	80	290	2.3	190	16.0
F-HW-84-3 <i>0.7"</i>	205	85	450	950	33.0	105	31.0
<i>right side</i> F-HW-84-4 <i>6.0"</i>	205	1700	>10000	4800	>100.0	2050	710.0



Certified by *Harry Bichler*



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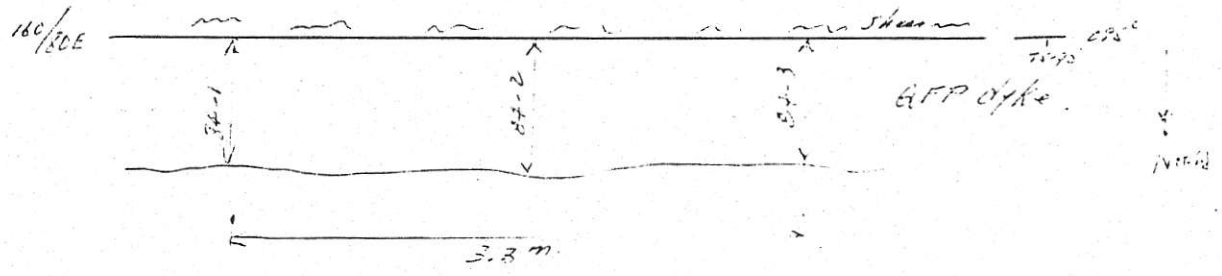
212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
Telephone: (604) 984-5221  
Telex: 043-52597

## CERTIFICATE OF ANALYSIS

TO : KERR ADDISON MINES LTD.  
(ATTN: RAY DUJARDIN)  
703 - 1112 W. PENDER ST.  
VANCOUVER, B.C.  
V6E 2S1

CERT. # : A8414312-001-  
INVOICE # : I8414312  
DATE : 8-AUG-84  
P.O. # : 24777  
B-12  
*Hudson West*

Sample description	Prep code	Au pbb FA+AA	g/g	Notes
F-HW-84-1	205	35	0.7	chip sample
F-HW-84-2	205	10	0.75	
F-HW-84-3	205	30	0.70	
F-HW-84-4	205	490	5.00	grab " of rotten F.W. incl. F.W. shear



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212 Brubanks Ave.  
North Vancouver, B.C.  
V7J 2C1  
Tel: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : KERR ADDISON MINES LTD.  
(ATTN: RAY DUJARDIN)  
703 - 1112 W. PENDER ST.  
VANCOUVER, B.C.  
V6E 2S1

CERT. # : AB414313-001-6  
INVOICE # : I8414313  
DATE : 14-AUG-84  
P.O. # : 24777  
E-12

Sample description	Prep code	Cu %	Pb %	Zn %	Sb NAA %	Ag oz/T RUSH FA	Au oz/T RUSH FA
F-HW-84-5	236	<0.01	1.93	3.05	0.017	2.30	0.018
F-HW-84-6	236	<0.01	0.54	0.56	0.010	1.12	0.010
F-HW-84-7	236	<0.01	3.40	4.92	0.027	4.48	0.014

.....  
Registered Assayer, Province of British Columbia





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RECEIVED  
2110 Kingsbank Ave.  
North Vancouver, B.C.  
V7J 2C1  
AUG 15 1984  
Telephone: (604) 984-0221  
Telex: 04352597  
KERR ADDISON MINES LTD.

## CERTIFICATE OF ANALYSIS

TO : KERR ADDISON MINES LTD.  
(ATTN: RAY DUJARDIN)  
703 - 1112 W. PENDER ST.  
VANCOUVER, B.C.  
V6E 2S1

PER  
PER

CERT. # : A8414313-001-  
INVOICE # : I8414313  
DATE : 14-AUG-84  
P.O. # : 24777  
B-12

Sample description	Prep code	AS ppm					
E-HW-84-5	236	680	---	---	---	---	---
E-HW-84-6	236	230	---	---	---	---	---
E-HW-84-7	236	1250	---	---	---	---	---

Hart Buchler

Certified by .....

