M.V.T. claims

M.E.I.P. Report - 07

Summary Report

on the

Exploration Activities

M.U.T. (1-6) Group of Mineral Claims
Nelson Mining Division
N.T.S. Map Reference 82F/3

Latitude 49°05'N; Longitude 117°12'W

for

Benson Mines Ltd. (NPL)

by

John R. Poloni, B.Sc., P.Eng.,

December 12, 1978

John R. Poloni & Associates Ltd.,
502 - 8B Avenue,
Delta, B. C.

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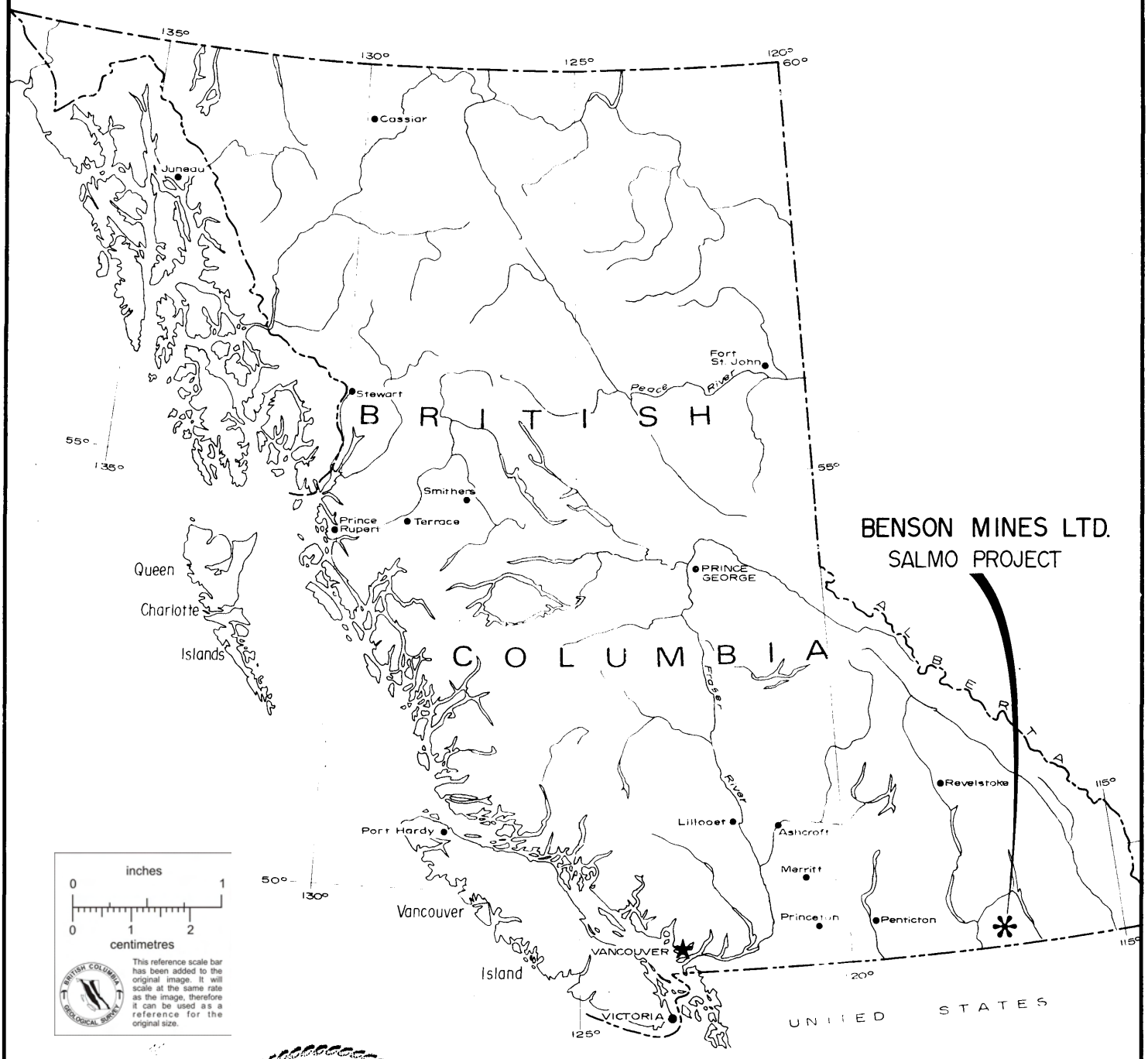


PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
John Poloni

BENSON MINES LTD. (N.P.L.)		
SALMO PROJECT PROPERTY LOCATION MAP M.U.T. CLAIMS NELSON MINING DIVISION		
JOHN R. POLONI & ASSOCIATES LTD.		
DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE: As shown	DATE: Dec. 12, 1978	1.

ALTAIR drafting services ltd.

1.0 Introduction

1.1.0 General Features

The M.U.T.(1-6) Group of mineral claims containing 84 units is located at Lost Creek, 12.1 kilometers south of Salmo, B.C. in the Nelson Range physiographic division. Elevations on the claims range from approximately 1000 to 1500 meters above sea level with slopes being steep on the northwesterly side but more moderate to the southeasterly. The property covers two heights of land, the south slopes of Nevada Mountain and the northwest slopes of Lost Mountain.

Access is via road, south from Salmo, B.C. along Highway No. 3 to the South Salmo River for 14.5 kilometers then easterly along the river for 2.3 kilometers to Lost Creek. A 4-wheel drive road leads northerly towards the M.U.T. claims for approximately 6.4 kilometers. The northerly part of the claim group on Nevada Mountain can be reached by gravel road along the north side of Lost Creek.

Plan No. 1 shows the property location and Plan No. 2 shows the Claim Map, Appendix C.

The N.T.S. Map reference is 82F/3; Latitude $49^{\circ}05'$N and Longitude $117^{\circ}12'$W.

1.2.0 Property Definition

1.2.1 Claims Information

The M.U.T. Groups of mineral claims lie in the Nelson Mining Division of British Columbia, Plan No. 2. Benson Mines Ltd. of Vancouver holds the claims by option agreement with Mr. Ian G. Sutherland and Mr. John M. Mirko.

Claims data is as follows:

Claim (Units)	Record No.	Expiry Date
M.U.T. #1 (10)	371 (11)	Nov. 30/
M.U.T. #2 (10)	372 (11)	Nov. 30/
M.U.T. #3 (16)	373 (11)	Nov. 30/
M.U.T. #4 (16)	374 (11)	Nov. 30/
M.U.T. #5 (16)	377 (12)	Dec. 7/
M.U.T. #6 (16)	378 (12)	Dec. 7/

1.2.2 History

Governmental reports indicate that the Molly Group of Crown Granted claims, continguous with the M.U.T. claims, was originally located for molybdenite, and a small shipment made during World War I. In 1942, Joe Gallo of Howser, discovered scheelite in association with molybdenite in skarn and a considerable amount of trenching was undertaken. Trenches on the M.U.T. claims were probably undertaken during this period. As the geological and mineralogical nature in the vicinity of the short adit driven on the south side of Lost Creek (M.U.T.#5) is similar to the molybdenite-tungsten showings in the area, the history of discovery is probably similar.

The property was staked as the M.U.T. group of claims in November and December 1976. Geological mapping and sampling of showings, road repair work, the establishment of a preliminary survey grid over part of the claims and the drilling of A-77-1 were undertaken in 1977. Mr. J. Montgomery, P.Eng. and Mr. Gerhard Von Rosen, P.Eng. reported on the M.U.T. project during 1977 and early 1978. During this period Westwind Mines Ltd. held an option

agreement on the property.

The drill hole A-77-1 spotted at 35 meters easterly of a bedrock trench containing tungsten mineralization in medium to intense skarn and hornfels alteration in limestone and limy argillite was drilled to test this mineralization at a projected limestone-granite interface. This hole while not achieving the expected target location, however did intersect several narrow limestone and limy argillite units containing minor tungsten mineralization before hitting the intrusive granite at 149.5 m. Plan No. 6 shows a section, looking northeasterly, of this hole. Holes A-78-1 and A-78-2, were undertaken to further test for the granite-limestone interface.

The main areas of interest on the M.U.T. claims are underlain by argillite, limestone and limy argillite of the Active Formation adjacent to the Lost Creek Stock intrusive contact. Scheelite, and molybdenite, occurs in contact areas in garnet-diopside skarn, in both intrusive and sedimentary environments. Uranium mineralization has been found recently, as fluorescence in platty argillite.

Mineral deposits of interest in the immediate area are the Molly Mine, the Tungsten King and Dodger, the Reeves MacDonald and the H.B. Mine.

1.3.0 Work Summary

1.3.1 Diamond Drilling

Three drill holes A-78-1, A-78-2, and A-78-3 were complete for a total of 454.8 meters of A-Q size core. Drill hole data is as follows:

No.	Size	Elev. m	Depth m	Incl.	Bearing
A-78-1	AQ	1508.7	116.7	-90°	
A-78-2	AQ	1508.7	236.3	-70°	NW
A-78-3	AQ	920.5	101.8	.90°	

Drill hole collar locations are shown on Plan No. 3.

1.3.2 Geological Mapping

Geological mapping was undertaken on the Tungsten Adit-Lost Creek area as shown in Plan No. 5 by V. M. Ramalingaswamy, geologist in charge during early 1978. Four samples were cut across 0.61 meters in two scarny horizons as mapped in the adit.

Further geological examination was undertaken by the author and Mr. Ian Sutherland, prospector, over previously exposed trenches, road cuts, and outcrops. This work consisted of detailed lamping (ultraviolet) after dark with a daylight reexamination of areas and rock units of interest. This work complemented similar examination made by Mr. Ramalingaswamy and Mr. Mirko.

1.3.3 Prospecting

General Prospecting undertaken by the author and Mr. Sutherland as part of the geological reconnaissance consisted of outcrop examination at lower elevations on the property where governmental maps indicated the presence of geology of interest such as limestone and limy argillite units. These areas are presently not covered by control grids.

1.3.4 Physical Work

Access road construction both for property access and drill location requirements were undertaken using D-6 size dozer.

In excess of 2000 feet or 609.6 meters of such work was completed as shown on Plans 7 and 10.

A main base line was cut in the vicinity of Drill holes A-77-1, A-78-1 and A-78-2 for 1800 meters at N45^{o}E. Grid lines have yet to be established.

2.0 Diamond Drilling Report

Three drill holes were completed during 1978 as part of a further evaluation of M.U.T. claims. As previously stated, section 1.2.2, drill hole A-77-1 designed to test tungsten bearing limestone and limy argillite, altered to medium and intense scarn and hornfels, as seen in surface trenches, encountered only minor tungsten mineralization at depth, before intersecting the intrusive granite at 149.5 meters.

Drill hole A-78-1 was designed to further test for the down dip extension of the mineralized zone sought in A-77-1, as it was felt that the limy horizons could have flattened at depth and thus been missed in A-77-1. A-78-1 was logged by V. M. Ramalingaswamy as cutting principally, broken argillite with very minor scarny brecciated sections and then limy argillite units. Because of the faulted and broken nature of the ground the hole was aborted at 116.7 meters and A-78-2 commenced at 15.2 meters to the north west inclined at -70^{o} to the North West.

Drill hole A-78-2 encountered mainly argillite with thin sections of limy argillite and very minor scarn to a depth of 226.52 meters when the intrusive granite was encountered. The hole was terminated at a final depth of 236.28 meters in bleached intrusive.

Drill hole A-78-3 was undertaken in the vicinity of the Tungsten Adit-Lost Creek to test the grade and extent of the tungsten-molybdenite bearing scarn. Four 0.61 meter samples across two scarn horizons as shown on Plan 5 had assayed as follows:

	WO%	Mo%	Width (approx.)
A-1	0.18	0.018	0.61 meters
A-2	0.68	-	0.61 meters
A-3	0.48	-	0.61 meters
A-4	0.26	-	0.61 meters

This hole was drilled at -90^{o} using AQ size wire line equipment to a final depth of 101.8 meters. Interbedded granite and argillite were encountered from 0.0 to 16.8 meters, argillite from 16.8 - 27.4 meters, silicious sedimentary unit with pegmatite from 27.4 - 30.6 meters, intense scarn to medium scarn 30.6 - 38.4 meters, silicious calcareous bedded unit containing minor scarn, limy units, and two thin basic dikes from 38.4 - 76.1 meters, and argillite from 76.1 - 101.8 meters.

Disseminated molybdenite occurs between 29.4 meters to 30.9 meters and several sections of core lamped (ultraviolet) as powellite, $Ca(MoW)O_4$.

Drill logs for holes A-78-1, A-78-2 and A-78-3 are appended in Appendix 8.4. Drill hole locations are shown on Plan No. 3. Two drill hole sections are included as Plan No. 6 and Plan No. 9.

Core storage locations are as follows:

1) A-77-1 with local resident 5 km south of Salmo.
2) A-78-1 and A-78-2 in core shed near cabin on M.U.T. claims.
3) A-78-3 at 5502-8B Ave., Delta, B.C. at residence of author.

Cost Statement

Drill hole A-78-1, A-78-2, A-78-3 were drilled under contract by Kootenay Exploration Drilling Ltd., P. O. Box 519, Rossland, B.C. Costs are presented in section 6.0.

3.0 Geological Mapping

Geological mapping undertaken on the property consisted of both detailed mapping underground in the Tungsten Adit as shown on Plan No. 5 and surface mapping in the area of recent diamond drilling as shown in Plan No. 10.

The maps submitted were completed in preliminary by V. M. Ramalingaswamy M.Sc., with additions by the author. Plan No. 5 outlining the detail of the Tungsten Adit shows relatively gently dipping sequences of argillite, granite, silicious sediment, silicious limestone, and moderately to intensely altered scarn containing tungsten and molybdenite mineralization. Dips of the sequences are approximately 33°-40° to the east. Plan No. 10 showing the surface geology in the vicinity of drill hole A-77-1, A-78-1 and A-78-2 defines silicious to limy sedimentary units, argillite, limy argillite, limestone, hornfels and lamprophyredikes. Mineralization in the form of disseminated tungsten (scheelite) in blocky sedimentary units, tungsten in association with concordant quartz veining, and uranium as autunite or uranophane has been encountered in surface mapping and prospecting. Stratigraphic units generally dip gently at 35°-50° to the southeast. Both major and minor faulting has been encountered with general trends being North to Northwesterly and Northeasterly. Basement intrusive granite was cut in Drill hole A-78-2, and A-77-1 at depths of approximately 225 and 150 meters,

respectively, below outcrop.

Cost statement including geological mapping, line cutting for baseline and a minimal amount of grid cross lines is presented in section 6.0.

4.0 Prospecting

During periods in June, October and November the author undertook geological examinations and general prospecting of the M.U.T. claims in accompanyment with Mr. Ian Sutherland, prospector. This work consisted of lamping (ultraviolet) at night complimented with daylight re-examination of outcrop areas. During the periods in October and November diamond drilling was being done on A-78-3.

Much of the southerly part of the M.U.T. claims is overburden covered and contains heavy growth of vegetation but outcrop frequency is adequate to provide a reasonable picture of the stratigraphic units although all units can not be examined in detail. Road cuts both old and recent were examined.

The northerly part of the claim group is cut by Lost Creek. Here outcrop frequency is much higher than to the south, slopes are steeper and stratigraphic units are better exposed. This prospecting was successful in defining zones of interest for future detailed exploration as tungsten and uranium minerals were found.

5.0 Physical Work

Diamond drill site preparation for drill holes A-78-1, A-78-2 and A-78-3 was undertaken using a D-6 dozer under contract. It was also necessary to construct road access to these sites and to water supply. Two different contractors were used at separate periods, initially access and site preparation for A-78-1 and A-78-2, and then during October access and site preparation for A-78-3. During this second period of physical work the "1%" showing area was stripped for further examination. Results of sampling of this showing are indicated in Plan No. 8.

The main base line was cut for approximately 1800 meters in the vicinity of the cabin and drill holes A-78-1, A-78-2 and A-77-1, as a 1 meter wide line clearing with a strike of N45^{O}E. Only temporary chain and compass cross lines were run, and it will be necessary to establish a permanent survey grid, Plan No. 10.

6.0 Cost Statement

6.1 Diamond Drilling

Kootenay Exploration Drilling Ltd.

A-78-1 and A-78-2 from May 1978 to June 20, 1978

352.7 meters for total Contract Cost = $13,360.20.

A-78-3 from Nov. 5, 1978 to Nov. 21, 1978

101.8 meters, core boxes, mobilization and

demobilization and gel seal = $ 4,989.00.

6.2 Geology

Geological mapping was done by geologist Mohen Ramalingaswamy during May and June 1978 = $ 1,250.00

Geologist Mr. G. Von Rosen for period Nov. 30, 1977 to Jan. 12, 1978 and John R. Poloni for periods June 14 - July 4, 1978; October 19-22, 1978; October 26-29, 1978; Nov. 2-10, 1978; Nov. 17-27, 1978 = $ 6,834.92

6.3 Prospecting

John Mirko for period April 21- June 17, 1978 field supervision and management, prospecting, camp construction, line cutting, preparation of drill sites for A-78-1 and A-78-2 road construction supervision, assistance in drill and water line set ups.

Wages	= $ 3,196.00
Field Supplies	= $ 1,193.25
Accomodation & Travel	= $ 2,677.28
Red Hawk Truck Rental	= $ 2,797.30

Ian Sutherland for period Oct. 26 to November 22, 1978 prospecting road cuts, outcrop lamping (ultraviolet) for total cost including wages and expenses = $ 2,490.00

(Wages at $60.00/day, truck rental at $10.00/day, motel and food expenses.) The author assisted in

lamping and prospecting with charges included in section 6.2 Geology, above.

6.4 Physical Work

Bulldozer work May (1-13) 1978 for road access, for drill site preparation and water supply for A-78-1 and A-78-2 under contract to Swift Creek Logging at $40.00/hour for D-6 = $ 2,470.00

Bulldozer work for period Oct, (15-21) 1978 including drill site preparation for A-78-3 and road access to site, and dozer stripping of "1% Showing", under contract to Four Leaf Logging using a D-6. Contract 24 hrs. @ $40.50/hr. and lowbed rental 2½ hrs. @ $35.00/hr. for a total cost = $ 1,159.50

Road access work and site preparation was in excess of 2000' or 610 meters. The "1% Showing" was stripped for a length of 125' (38 meters) and width of 3.0 meters.

Assay costs were: General Testing $ 209.50

Chemex $ 36.00

7.0 Interpretation

The exploration undertaken to date in the form of ultraviolet lamping, geology and diamond drilling has examined several areas of tungsten-molybdenite bearing scarn, limy argillite and limy silicious sediments. Drill hole A-78-3 was successful in intersecting a thick tungsten bearing horizon requiring further drill testing. Uranium mineralization as autunite or uranophane has been discovered in talus slopes also requiring detailed surveys.

8.1 Appendix A

Author's Certificate

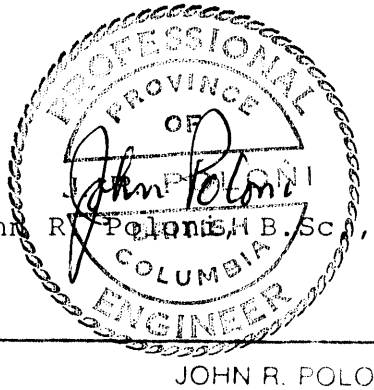
CERTIFICATE

I, John R. Poloni, of 5502 - 8B Avenue, in Delta, in the Province of British Columbia,

DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist.
2. I am a graduate of McGill University of Montreal, Quebec, where I obtained a B.Sc. degree in Geology in 1964.
3. I am a registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia.
4. I have practiced my profession since 1964.
5. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
6. I have personally examined the M.U.T. claims as stated in this report.
7. I have no interest in the properties or securities of Benson Mines Ltd. nor do I expect to receive or acquire any.

Dated this 12 day of December 1978



John R. Poloni, B.Sc., P. Eng.

JOHN R. POLONI P.Eng.
Consulting Geologist

8.2 Appendix B

Assay Data

Assay Calculations

1% Zinc
Ltd. GCAB

GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.
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TO:
MR. ERNIE PETERS
WEST WIND MINES LTD.
904 - 885 Dunsmuir Street
Vancouver, B.C.

Rock ½" x 2"

CERTIFICATE OF ASSAY

No. 7709-2958 | DATE: Oct. 7/77

We hereby certify that the following are the results of assays on: Ore and Rock samples

MARKED	xxxxxxxxxxxxxxx OZ/ST GR/MT	xxxxxxxxxxxxxxx OZ/ST GR/MT	Molybdenite MoS_2 (%)	Zinc Zn (%)	Tungsten WO_3 (%)	xxx	xx	xxx
E-071485								
01 - 9 - 77			< 0.001	0.079	1.09			
02 - 9 - 77			< 0.001	0.011	1.01			
03 - 9 - 77			-	-	trace			

NOTE REJECTS RETAINED ONE MONTH, PULPS RETAINED THREE MONTHS, ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR

R. NADEAU - Chemist

xxxxxxxxxxxxxxx

GENERAL TESTING LABORATORIES

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500 EAST PENDER ST., VANCOUVER, B.C., CANADA, V6A 1W2
PHONE (604) 254-1647 TELEX 04-[illegible] CABLE SUPERVISE

TO:
BENSON MINES LTD.
404 Somerset Street
North Vancouver, B.C.

CERTIFICATE OF ASSAY

No: 7311-2752 | DATE: Dec. 6/78

We hereby certify that the following are the results of assays on: Ore

MARKED	GOLD	SILVER	Uranium oxide U_3O_8 (%)	Tungsten oxide WO_3 (%)	Molybdenite MoS_2 (%)	xxx	xxx	xxx
9951 D			< 0.001	0.31	0.005			
9953 D			< 0.001	1.90	0.002			
9954 D			< 0.001	0.16	0.002			
9956 D			0.003	0.06	0.007			
9957 D			< 0.001	0.02	0.008			
9958 D			0.003	0.02	0.003			
9959 D			0.002	0.02	0.005			
9960 D			< 0.001	0.02	0.003			

REMARKS: MoS_2 calculated from total molybdenum.

cc. Mr. John Poloni

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS ON REQUEST. PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR

L. [illegible]
PROVINCIAL ASSAYER

COPY

Tungsten Gold
Lost Creek

GENERAL TESTING LABORATORIES

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904 - 885 Dunsmuir Street
Vancouver, B.C.

CERTIFICATE OF ASSAY

No.: 7356-1360 DATE: June 20/78

We hereby certify that the following are the results of assays on: Ore

MARKED	~~GOLD~~	~~SILVER~~	Tungsten WO3 (%)	Molybdenum Mo (%)	xxx	xxx	xxx	xxx
E-8013								
A 1			0.18	0.015	"	"		
A 2			0.66	-	"	"		
A 3			0.48	-	"	"		
A 4			0.26	-	"	"		

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TELEPHONE 985-0648
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CERTIFICATE OF ASSAY

CERTIFICATE NO. 33366

INVOICE NO. 22940

RECEIVED Dec. 20/77

ANALYSED Dec. 22/77

TO: Westwind Mines
904 - 885 Dunsmuir
Vancouver, B.C.

ATTN:

SAMPLE NO. :	% Mo	% Pb	% Zn	% WO_3	
71301	0.036				
71302		< 0.01	1.46		
71303				0.06	Bottom
71304				0.08	
71305				0.08	
71306				0.33	
71307				0.15	
71308				0.22	
71309				0.16	
71310				0..30	
71311				0.08	
71312				0.08	Top

CTA MEMBER CANADIAN TESTING ASSOCIATION

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TO:
BENSON MINES LTD.
c/o Mr. Jim Billingsley
433 - 355 Barrard Street,
Vancouver, B.C.
V6C 2G8

CERTIFICATE OF ASSAY

No.: 7810-3055 | DATE: Nov. 7/78

We hereby certify that the following are the results of assays on: Ore

MARKED	xxxxxxx	xxxxxxx	Tungsten oxide WO_3 (%)	Lead PB (%)	Zinc Zn (%)	xxx	xxx	xxx
18946			0.34	0.01	0.72			
18947			0.13	0.01	0.39			
18948			0.04	0.01	0.09			

cc. Mr. J. Poloni

NOTE: REJECTS RETAINED ONE MONTH, PULPS RETAINED THREE MONTHS ON REQUEST
PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR

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TO:
BENSON MINES LTD.
904 - 885 Dunsmuir Street
Vancouver, B.C.
V6C 1N5

Attn: Mr. E.S. Peters

CERTIFICATE OF ASSAY

No.: 7812-0456 | DATE: Dec. 15/78

We hereby certify that the following are the results of assays on: Ore

MARKED	xxxxxxxxxxxx		Molybdenite	Tungsten oxide	Uranium oxide	xxx	xxx	xxx
			MoS_2 (%)	WO_3 (%)	U_3O_8 (%)			
651			0.002	trace	0.001			
652			0.002	trace	< 0.001			
653			0.040	trace	< 0.001			
654			0.30	0.32	0.002			
655			0.130	trace	0.002			
656			0.142	1.60	0.003			
657			0.007	trace	0.003			
658			0.010	trace	0.003			
659			0.010	0.06	0.001			
660			0.093	1.09	0.002			
661			0.018	0.06	0.001			
662			0.013	0.022	0.003			
663			0.005	trace	0.002			
664			0.032	0.40	0.006			
665			0.010	trace	< 0.001			
666			0.040	0.83	0.003			
667			0.018	0.10	0.001			
668			0.023	0.15	0.002			
669			0.002	trace	0.001			
670			0.030	0.31	0.002			
671			0.002	trace	0.001			
672			0.022	0.16	0.002			
673			0.003	trace	0.002			
674			0.008	0.24	0.004			
675			0.050	0.08	0.002			
676			0.005	0.02	0.002			
677			0.002	trace	< 0.001			
678			0.001	trace	< 0.001			
679			0.001	trace	< 0.001			
680			0.053	trace	< 0.001			
681			0.013	trace	0.001			
682			0.008	0.16	0.002			
683			0.005	0.02	0.001			
684			0.010	0.12	0.003			
685			0.001	trace	0.001			
686			0.008	0.11	< 0.001			
687			0.002	trace	0.001			

/ Continued on next page ...

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS ON REQUEST. PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

L. WONG
PROVINCIAL ASSAYER

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TO:
BENSON MINES LTD.

(Continued) ... page 2 ...

CERTIFICATE OF ASSAY

No.: 7812-0456 | DATE: Dec.15/78

We hereby certify that the following are the results of assays on: Ore

MARKED	xxxxxxxxxxxxxR		Molybdenite MoS_2 (%)	Tungsten oxide WO_3 (%)	Uranium oxide U O (%)	xxxx	x xx	xxxx
688			0.002	trace	0.002			
689			0.002	trace	0.002			
690			0.003	trace	< 0.001			

REMARKS: MoS_2 calculated from Mo.

cc. Mr. John Poloni

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

L. WONG
PROVINCIAL ASSAYER

A-78-3 Drill Hole
Assay Data

Sample No.	Interval From	To	Width ft.	'm'	True Width	Assay Data MoS_2%	WO_3%	U_3O_8%
651	50.1	53.0	3.0	15.27-16.18 0.91		0.002	TR	0.001
652	87.7	90.0	2.3	26.73-27.43 0.70		0.002	TR	<.001
653	90.0	92.0	2.0	27.43-28.04 0.61		0.040	TR	<.001
654	92.0	94.0	2.0	28.04-28.65 0.61		0.30	0.32	0.002
655	94.0	100.8	6.8	28.65-30.72 2.07		0.130	TR	0.002
656	100.8	103.0	2.2	30.72-31.39 0.67		0.142	1.60	0.003
657	103.0	110.0	7.0	31.39-33.53 2.14		0.007	TR	0.003
658	110.0	119.0	9.0	33.53-36.27 2.74		0.010	TR	0.003
659	119.0	124.0	5.0	36.27-37.80 1.53		0.010	0.06	0.001
660	124.0	126.0	2.0	37.80-38.40 0.61		0.093	1.09	0.002
661	126.0	134.5	8.5	38.40-41.00 2.60		0.018	0.06	0.001
662	134.5	135.7	1.2	41.00-41.36 0.36		0.013	0.22	0.003
663	135.7	138.0	2.3	41.36-42.06 0.70		0.005	TR	0.002
664	138.0	139.0	1.0	42.06-42.37 0.31		0.032	0.40	0.006
665	139.0	140.0	1.0	42.37-42.67 0.31		0.010	TR	<.001
666	140.0	144.0	4.0	42.67-43.89 1.22		0.040	0.83	0.003
667	144.0	147.0	3.0	43.89-44.80 0.91		0.018	0.10	0.001
668	147.0	153.3	6.3	44.80-46.73 1.93		0.023	0.15	0.002
669	153.3	157.7	4.4	46.73-48.07 1.34		0.002	TR	0.001
670	157.7	160.0	2.3	48.07-48.77 0.70		0.030	0.31	0.002
671	160.0	162.5	2.5	48.77-49.53 0.76		0.002	TR	0.001
672	162.5	170.0	7.5	49.53-51.82 2.29		0.022	0.16	0.002
673	170.0	174.0	4.0	51.82-53.04 1.22		0.003	TR	0.002
674	174.0	178.0	4.0	53.04-54.26 1.22		0.008	0.24	0.004
675	178.0	181.0	3.0	54.26-55.17 0.91		0.050	0.08	0.002
676	181.0	182.5	1.5	55.17-55.63 0.46		0.005	0.02	0.002
677	182.5	185.7	3.2	55.63-56.60 0.97		0.002	TR	<.001

A-78-3 Drill Hole
Assay Data

Sample No.	Interval From	To	Width ft.	'm'	True Width	Assay Data MoS_2%	WO_3%	U_3O_8%
678	185.7	191.5	5.8	56.60-58.37 1.77		0.001	TR	<.001
679	191.5	199.0	7.5	58.37-60.66 2.29		0.001	TR	<.001
680	202.3	203.7	1.4	61.66-62.09 0.43		0.053	TR	<.001
681	203.7	204.7	1.0	62.09-62.39 0.31		0.013	TR	0.001
682	204.7	206.0	1.3	62.39-62.79 0.40		0.008	0.16	0.002
683	206.0	212.0	6.0	62.79-64.62 1.83		0.005	0.02	0.001
684	212.0	214.8	2.8	64.62-65.47 0.85		0.010	0.12	0.003
685	214.8	218.0	3.2	65.47-66.45 0.98		0.001	TR	0.001
686	218.0	219.0	1.0	66.45-66.75 0.30?		0.008	0.11	<.001
687	219.0	226.0	7.0	66.75-68.88 2.13		0.002	TR	0.001
688	226.0	233.0	7.0	68.88-71.01 2.13		0.002	TR	0.002
689	233.0	234.0	1.0	71.01-71.32 0.31		0.002	TR	0.002
690	234.0	236.0	2.0	71.32-71.93 0.61		0.003	TR	<.001

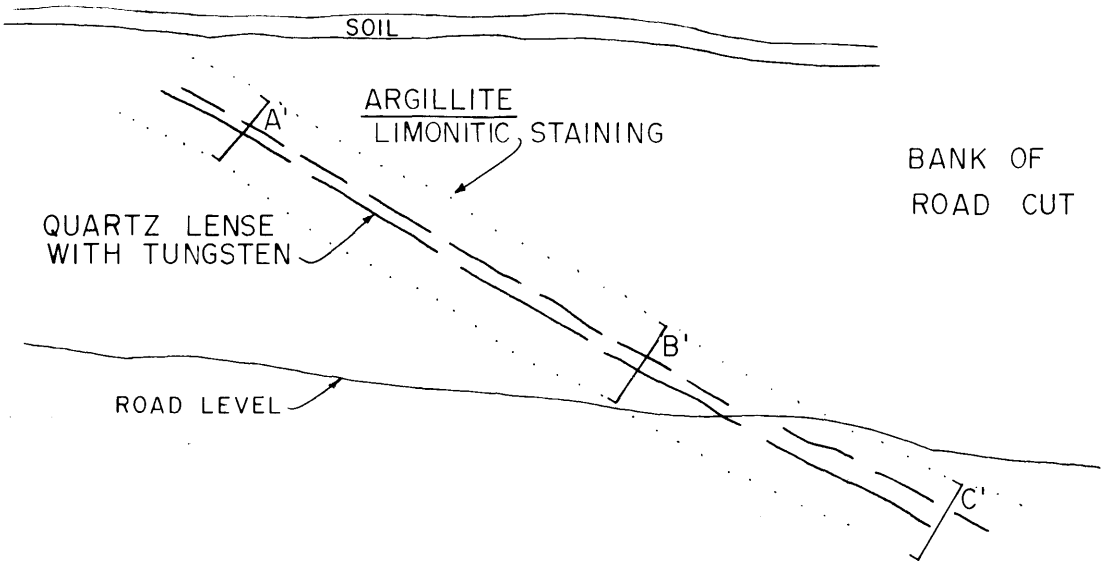
NO.	INTERVAL FT. M.	CORE WIDTH ft. in	ASSAY DATA MoS_2%	WO_3%	U_3O_8%
	90.0 - 92.0	2.0			
653	27.43- 28.04	0.61	0.040	TR	< 0.001
	92.0 - 94.0	2.0			
654	28.04- 28.65	0.61	0.30	0.32	0.002
	94.0 -100.8	6.8			
655	28.65- 30.72	2.07	0.130	TR	0.002
	100.8 -103.0	2.2			
656	30.72- 31.39	0.67	0.142	1.60	0.003
	103.0 -110.0	7.0			
657	31.39- 33.53	2.14	0.007	TR	0.003
	92.0 -103.0	11.0			
AVG.	28.04- 31.39	3.35	0.163	0.378	0.002
	119.0 -124.0	5.0			
659	36.27- 37.80	1.53	0.010	0.06	0.001
	124.0 -126.0	2.0			
660	37.80- 38.40	0.61	0.093	1.09	0.002
	126.0 -134.5	8.5			
661	38.40- 41.00	2.60	0.018	0.06	0.001
	134.5 -135.7	1.2			
662	41.00- 41.36	0.36	0.013	0.22	0.003
	135.7 -138.0	2.3			
663	41.36- 42.06	0.70	0.005	TR	0.002
	138.0 -139.0	1.0			
664	42.06- 42.37	0.31	0.032	0.40	0.006
	139.0 -140.0	1.0			
665	42.37- 42.67	0.30	0.010	TR	< 0.001
	140.0 -144.0	4.0			
666	42.67- 43.89	1.22	0.040	0.83	0.003
	144.0 -147.0	3.0			
667	43.89- 44.80	0.91	0.018	0.10	0.001
	124.0 -144.0	20.0			
AVG.	37.80- 43.89	6.09	0.028	0.334	0.002
	144.0 -147.0	3.0			
667	43.89- 44.80	0.91	0.018	0.10	0.001
	147.0 -153.3	6.3			
668	44.80- 46.73	1.93	0.023	0.15	0.002
	153.3 -157.7	4.4			
669	46.73- 48.07	1.34	0.002	TR	0.001
	157.7 -160.0	2.3			
670	48.07- 48.77	0.70	0.030	0.31	0.002
	160.0 -162.5	2.5			
671	48.77- 49.53	0.76	0.002	TR	0.001
	162.5 -170.0	7.5			
672	49.53- 51.82	2.29	0.022	0.16	0.002
	170.0 -174.0	4.0			
673	51.82- 53.04	1.22	0.003	TR	0.002
	174.0 -178.0	4.0			
674	53.04- 54.26	1.22	0.008	0.24	0.004
	178.0 -181.0	3.0			
675	54.26- 55.17	0.91	0.050	0.08	0.002
	144.0 -178.0	34.0			
AVG.	43.89- 54.26	10.36	0.014	0.121	0.002
	124.0 -178.0	54.0			
AVG.	37.80- 54.26	16.46	0.019	0.200	0.002
	92.0 -178.0	86.0			
AVG.	28.04- 54.26	22.22	0.035	0.177	0.002

8.3 Appendix C

Maps

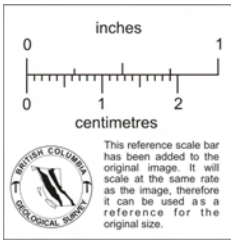
Plan No.	Description	Scale
No. 2	Claim Map	as shown
No. 3	Geology Plan	1" 610 meters
No. 4	Zone of Exploration Interest	1" 610 meters
No. 5	Tungsten Adit-Lost Creek	as shown
No. 6	Section A-A'	as shown
No. 7	Surface Details Tungsten Adit-Lost Creek	as shown
No. 8	Detailed Sampling "1% Showing"	as shown
No. 9	Section B-B' A-78-3	as shown
No. 10	Geology Upper Showings Area	as shown

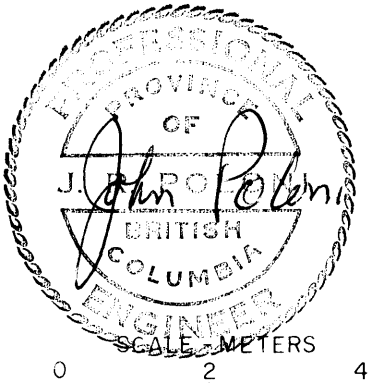
LOOKING NORTH EAST



SAMPLE LOCATIONS DATA

	No.	WIDTH	WO_3%	
A -	18942	1m.	TR.	(IN BANK)
B -	18943	1m	0.09	(IN BANK)
C -	18944	1.5m.	0.15	(ON ROAD)





SCALE - METERS

2 1 0 2 4 6

PROPERTY FILE

BENSON MINES LTD. (N.P.L.)

82FSW250 SALMO PROJECT

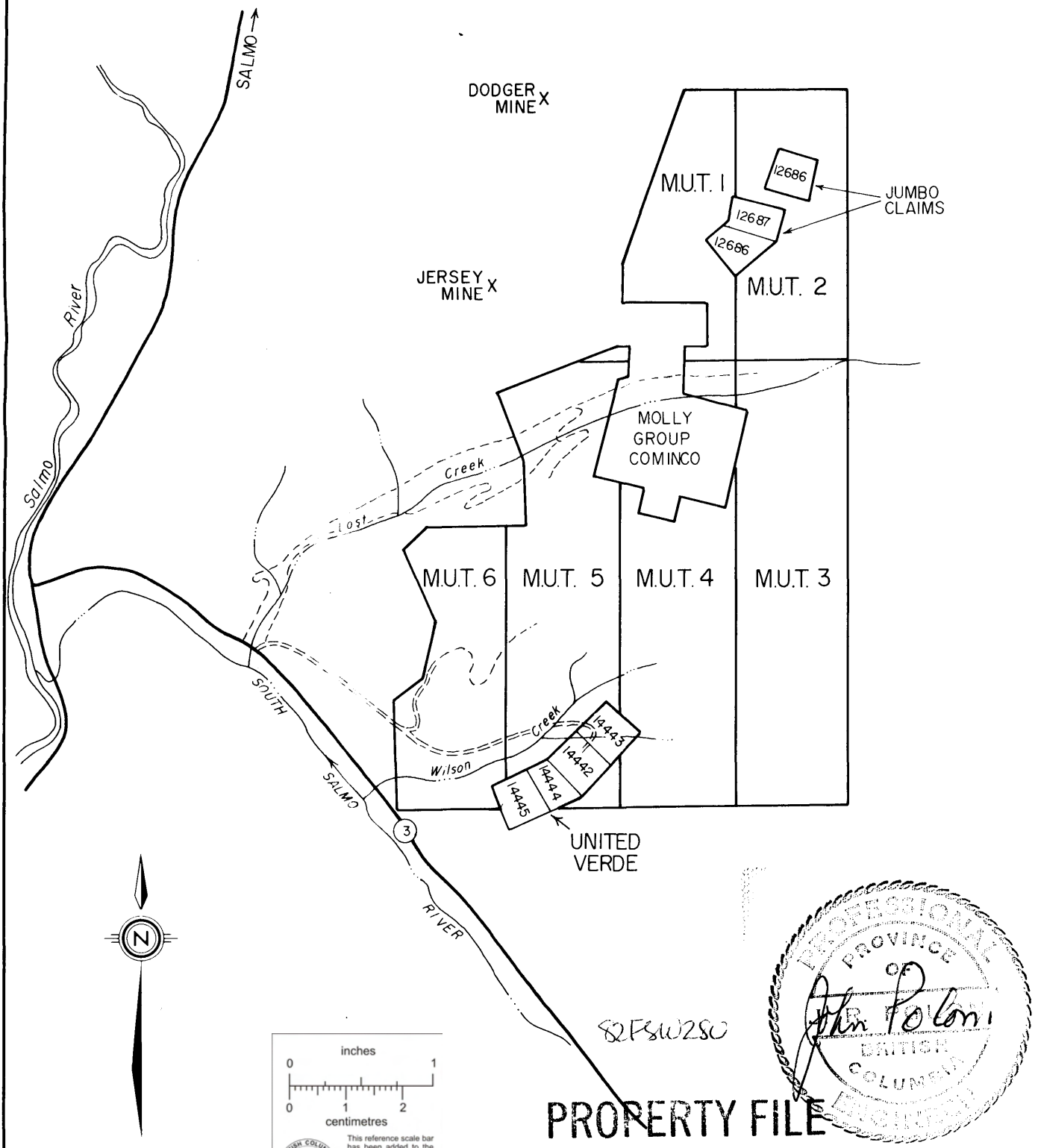
DETAILED SAMPLING

"1% SHOWING"

NELSON MINING DIVISION

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE: As shown	DATE: Dec. 12, 1978	8



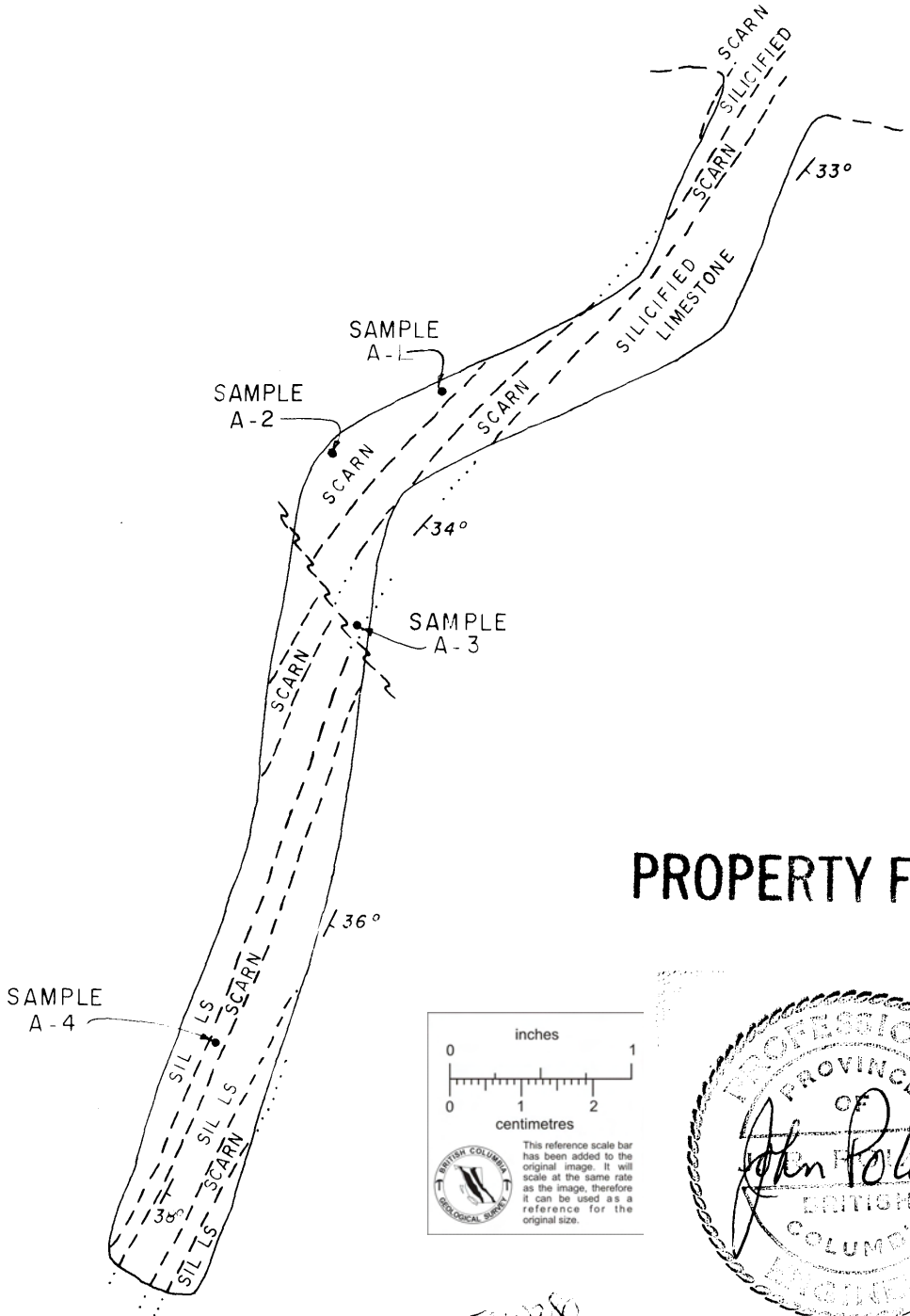
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J.R. Poloni

BENSON MINES LTD. (N.P.L.)

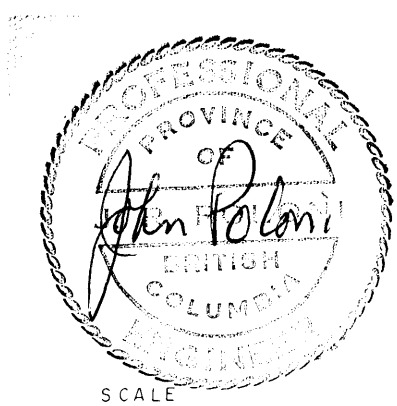
SALMO PROJECT
CLAIM MAP
M.U.T. CLAIMS
NELSON MINING DIVISION

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE:	DATE: Dec. 12, 1978	2.



PROPERTY FILE



SCALE

METERS 1 0.5 0 1 2 METERS

NOTE

MAPPED BY: V.M. RAMALINGASWAMY
SCARN: PYRRHOTITE, K-SPAR, DIOPSIDE TREMOLITE, SCHEELITE, POWELLITE, Mo.
SILICIOUS LIMESTONE: TREMOLITE, WOHASTONITE, TRACE SCHEELITE

FOR ASSAY DATA REFER TO APPENDIX C.

BENSON MINES LTD. (N.P.L.)		
SALMO PROJECT TUNGSTEN ADIT-LOST CREEK M.U.T. CLAIMS NELSON MINING DIVISION		
JOHN R. POLONI & ASSOCIATES LTD.		
DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE: AS SHOWN	DATE: Dec. 12, 1978	5

117° 12'

49° 05'

EMERALD MINE

JERSEY MINE

TUNGSTEN KING

JUMBO

JUMBO

MOLLY GROUP

NB DETAIL PLAN No.5

Adit

A-78-3

A-77-1

A-78-1

A-78-2

Lost Creek

BLACK BLUFF FAULT

UNITED

VERDE

CLAIM BOUNDARY M.U.T.

LEGEND

- 13a GRANITE
- 9 ACTIVE FORMATION – BLACK ARGILLITE
- 9a GREY LIMESTONE & ARGILLACEOUS LIMESTONE
- 9a SILICIFIED ARGILLITE & LIMESTONE.
- 7 PHYLLITE, SCHIST, MICACEOUS QUARTZITE, LIMESTONE
- 6 BLACK PHYLLITE & ARGILLITE
- 5 REEVES – LIMESTONE, MINOR DOLOMITE
- 4 TRUMAN – PHYLLITE, ARGILLITE, LIMESTONE LENSES
- 3 RENO – GREY, BLOCKY MICACEOUS QUARTZITE
- 2 NEVADA – WHITE QUARTZITE, BROWN MICACEOUS QUARTZITE
- MAJOR TRUST FAULT
- FAULT
- CONTACT, DEFINITE – ASSUMED

82FSW280

REFERENCE MAP : Fyles & Hewlett, Bulletin No.41, Fig. 3

PROPERTY FILE

BENSON MINES LTD. (N.P.L.)

SALMO PROJECT
GEOLOGY MAP
M.U.T. CLAIMS

NELSON MINING DIVISION

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE: 1" ≈ 610m.(2000')	DATE: Dec. 12, 1978	3

117° 12'

N

9a
9
13a
9
13a
E
13a
9
13a
Creek
Lost
Adit
B
9
13a
13a
13a
49° 05'
49° 05'
9c
9
4
5
G
9
9
9a, 9c
9a, 9c
20
35
D
A-77-1
A-78-1
A
9a, 9c
9a, 9c
A-78-2
9
F
13a
9a
9
C
7
9
9
7
H
7
5
4
3
2
7
5

CLAIM BOUNDARY M.U.T.

82FSW280

REFERENCE MAP : Fyles & Hewlett, Bulletin No 41, Fig. 3

NOTE:
- FOR GEOLOGY REFER TO PLAN No.3
- FOR DESCRIPTION OF ZONES OF EXPLORATION POTENTIAL REFER TO SECTION 8

BENSON MINES LTD. (N.P.L.)

SALMO PROJECT
ZONES OF EXPLORATION INTEREST
M.U.T. CLAIMS
NELSON MINING DIVISION

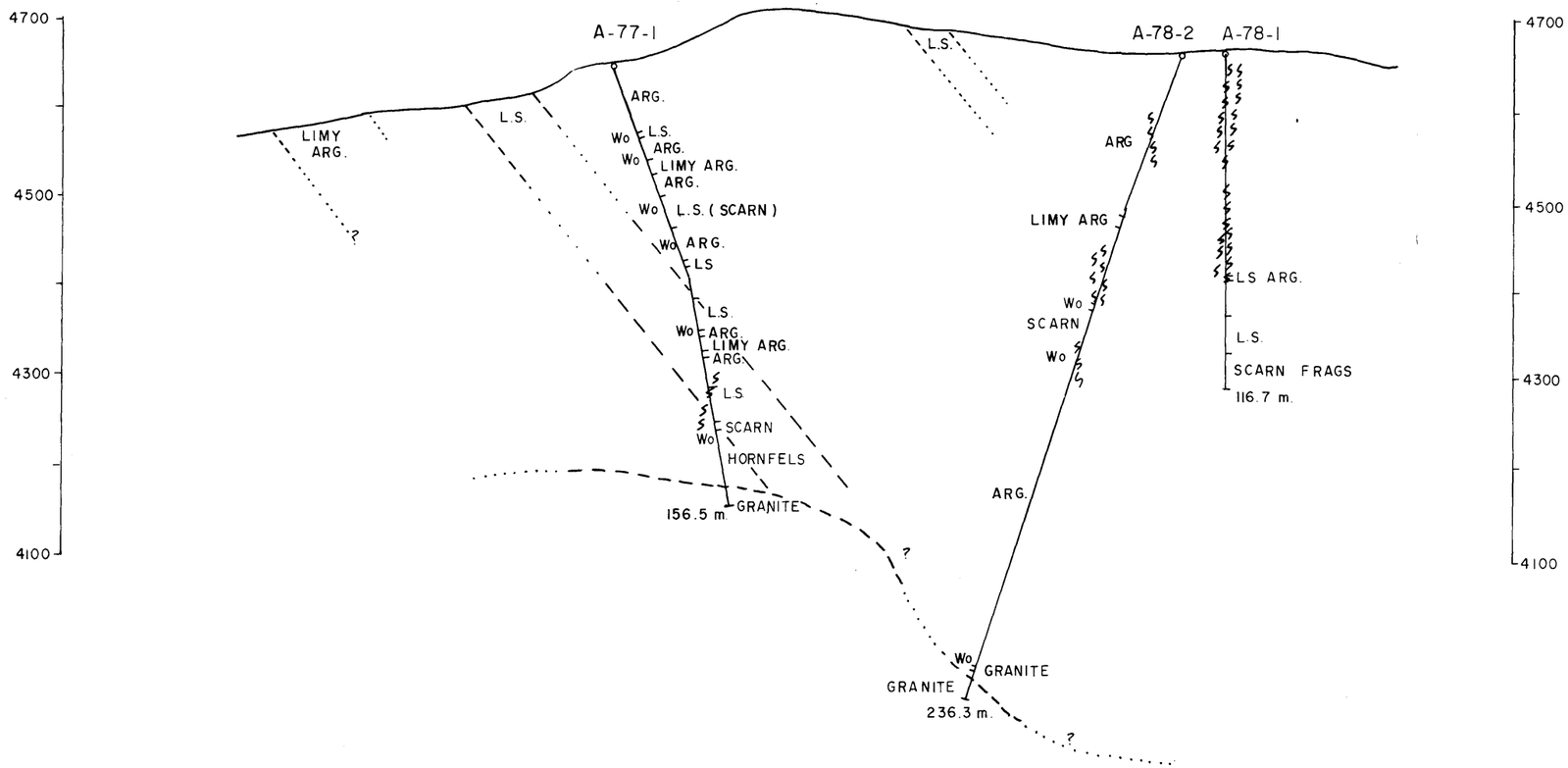
JOHN R. POLONI & ASSOCIATES LTD.

DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE: 1"≈610m. (2000')	DATE: Dec. 12, 1978	4

117° 12'

A

A'



SCALE

METERS 20 10 0 20 40 60 METERS

FEET 200 100 0 100 200 FEET

NOTE
LOOKING N.E.

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA John Poloni

PROPERTY FILE

BENSON MINES LTD. (N.P.L.)

SALMO PROJECT

82FSW280 SECTION A-A'

M.U.T. CLAIMS

NELSON MINING DIVISION

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE:	DATE: Dec. 12, 1978	6

GRANITE

TUNGSTEN ADIT

23°

34°

36°

38°

A-1

A-2

A-3

A-4

TO SALMO

LOST CREEK

ROAD

ACCESS

O/B

B

B'

A-78-3

GRANITE

GRANITE OUTCROP

GRANITE BLDRS

GRANITE BLDRS

ARGILLITE IN O/B

NOTE: NOT SURVEYED

SCALE - METERS

10 5 0 10 20 30

PROPERTY FILE

82FSW2SW

BENSON MINES LTD. (N.P.L.)

SALMO PROJECT
SURFACE DETAIL
TUNGSTEN ADIT-LOST CREEK
M.U.T. CLAIMS
NELSON MINING DIVISION

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN: J.R.P.	CHECKED BY: J.R.P	PLAN No.
SCALE: As shown	DATE: Dec. 12, 1978	7

B

B'

A -78 - 3

920 m

900

880

860

840

920m.

900

880

860

840

LOST CREEK

TUNGSTEN ADIT 43M NORTH OF SECTION

0.002 - TR - 0.001
0.91

0.040 - TR - 0.001
0.61

0.163 - 0.378 - 0.002
3.35

0.009 - 0.014 - 0.002
6.40

0.028 - 0.334 - 0.002
6.09

0.014 - 0.121 - 0.002
10.36

GRANITE
ARG.
GRANITE
ARG
GRANITE
ARG
GR
ARG
GR
ARG.
SIL SED (LIMY)
SCARN
"NEAR SCARN"
SIL. SED. (LIMY)
?
BASIC DIKE
?
SIL. SED.
(NEAR SCARN)
BASIC DIKE
SIL. SED.
ARG.
ARG. BX
ARG
SIL. SED
ARG.

101.8

RY

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
John Poloni

LEGEND

GR. - GRANITE

ARG - ARGILLITE

SIL. SED. - SILICIOUS SEDIMENT

ASSAY DATA

MoS_2 % - WO_3 % - U_3O_8 %
METRE

inches
0 1
0 1 2
centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

NOTE: SECTION LOOKING NORTH B-B'
NOT SURVEYED

SCALE - METERS
10 5 0 10 20 30

82FSW280

BENSON MINES LTD. (N.P.L.)

SALMO PROJECT
SECTION A-78-3 B-B'
M.U.T. CLAIMS
NELSON MINING DIVISION

JOHN R. POLONI & ASSOCIATES LTD.

DRAWN: J.R.P.	CHECKED BY: J.R.P.	PLAN No.
SCALE: As shown	DATE: Dec. 12, 1978	9

Scarn wollastonite - diopside garnet - pyrrhotite epidote

13a GRANITE

13a

Limestone (limy argillite)

wollastone garnet skarn

wollastonite garnet diopside

limestone

argillite

MOLLY MINE

Base line

(5)

silicified limestone(hornfels) tremolite - biotite

tremolite - biot silicified lst

argillite

lst float

Sil lst

Sil lst float

TRENCH

Limestone

Argillite

Argillite rusty weathering hornfels

limestone

A-77-1

A-78-2

A-78-1

N 45° E

ON

OE

blades of trem wollastonite, epidote

argillites

hornfels

U_3O_8

O/B

Sec

(Autunite-Uranophane ?)

Sil lst.

Sil. Limestone

New Showing
0.34 W03

lamprophyre dikes

Hematite Epidote Skarn

Limy Arg.

Limy argillite

Biotite tremolite epidote pyrrhotite

"1% SHOWING"
Quartz Lense

lamprophyre dykes

inches
centimetres

This reference scale bar has been added to the original plan. It was to scale at the same ratio as the image, therefore it can be used as a reference for the original size.

METRES
FEET

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
John R. Poloni

PROPERTY FILE

Geology by M. Ramalingaswany

32FSW280

BENSON MINES LTD. (N.P.L.)		
SALMO PROJECT		
GEOLOGY		
UPPER SHOWINGS AREA		
NELSON MINING DIVISION		
JOHN R. POLONI & ASSOCIATES LTD.		
DRAWN: M.R.	CHECKED BY: J.R.P.	PLAN No
SCALE: as shown	DATE: DEC. 12, 1978	10

8.4 Appendix D

Diamond Drill Log A-77-1, A-78-1

A-78-2, A-78-3

DLE NO. A-77-1 PROJECT: M.U.T. SALMO

CATION: Near Upper Trench near Cabin
ORDINATES: 49° 05' N, 117° 13' W
TM:
RS: 82F3E ELEV: 4650' (Approx)
CLINATION: 70° SE AZIMUTH: N130°E
TAL DEPTH 512' (156.5 metres)
RIZ. PROJ. ____ VERT. PROJ: ____

SURVEY		
LENGTH	DIP	AZIMUTH

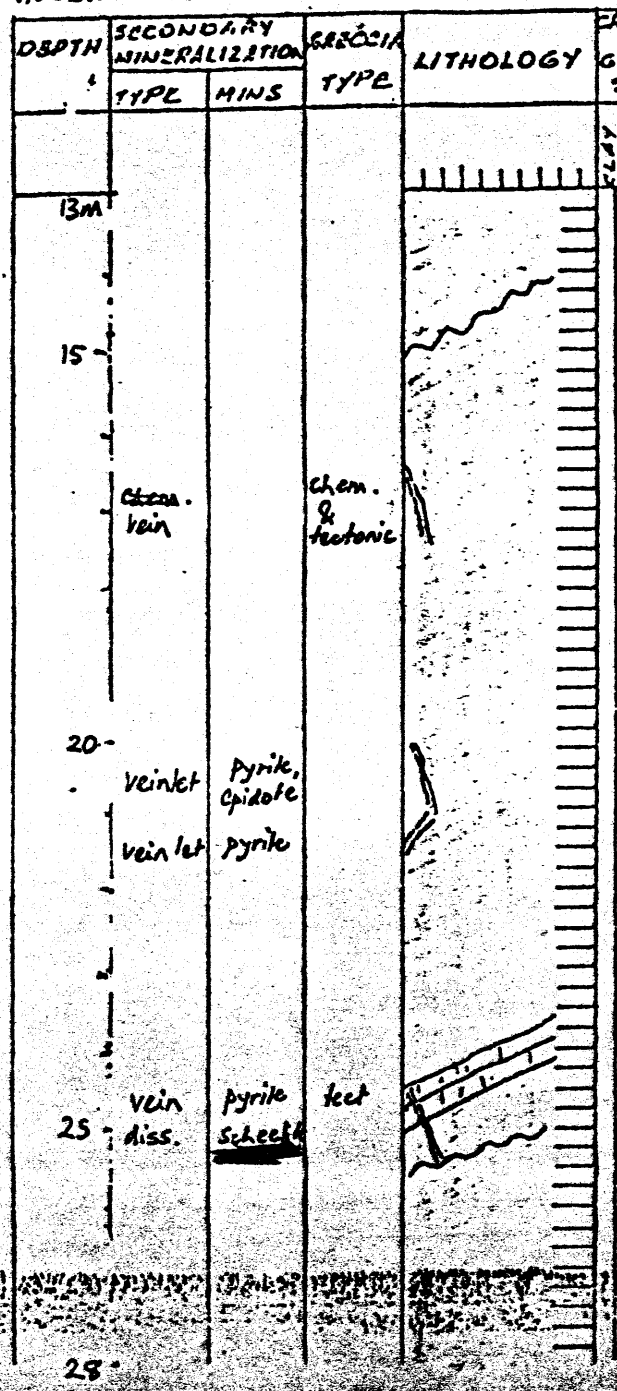
HOLE STARTED: Nov 20, 1977
HOLE COMPLETED Dec 16, 1977
DRILLED BY: LOGAN DIAMOND DRILLING

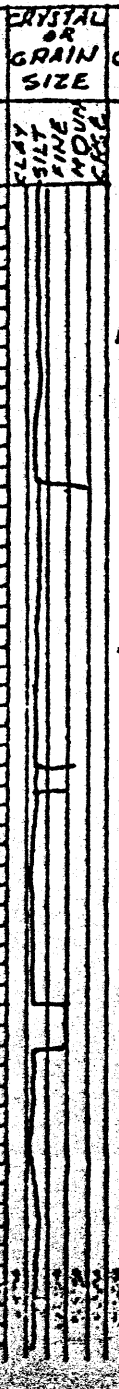
CORE SIZE: AQ RECOVERY: 90-95 %
SCALE 1 centimeter = 1 meter
LOGGED BY V. M. RAMALINGASWAMY

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE (CLAY, SILT, FINE, MEDIUM, COARSE)	COLOR	BEDDING	REMARKS	SAMPLING No.	SAMPLING LENGTH	ASSAY
0								Argillite with light colored calcitic bands.			
						black	30°	4.5m to 9m. Calcite, Pyrrhotite, pyrite filled fractures perp. to bedding. In places calcite changing to epidote.			
5	Veinlet	lim, Cal Po, Py	~~lim~~ feet, Cal Po, Py			black	30°				
10						black	30°				
	Vein of Cal.										

HOLE No. A-77-1 PROJECT I.I.U.T. SALMO

INCLINATION: 70°S E AZIMUTH: N130°E COORDINATES: 49°05'N, 117° 12'W SCALE: 1cm - 1meter LOGGED BY: V.M.R





COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING LENGTH	ASSAY
		Silicified limestone - 12.5m to 12.8m Syngenetic pyrite, sericitic cleavages.			
		14-15m fault zone			
black	30°	12.8 to 24m Argillite - syngenetic pyrite & pyrrhotite with graphitic shears.			
		17.3 m. fracture filled with epidote - perp. to bedding, suggesting proximity of skarn or contact metamorphism of argillite.			
black	30°				
grey	40°	24 to 24.3 Contact met. limestone with epi-quartz-pyrite-veinlets. few grains of blue-white scheelite			
black					

HOLE No. A-77-1 PROJECT M.U.T. SALMO

INCLINATION: 70°S/E AZIMUTH: N130°E COORDINATES: 49°05'N, 117°12'W SCALE: 1cm-1meter LOGGED BY: V.M.R

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE (CLAY SILT FINE MEDIUM COARSE)	COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING LENGTH meters	ASSAY WO_3	ASSAY
								31.5 to 35.5 Interbedded limestone with argillite converted to medium grade skarn				
28						black						
	vein					grey	30°	clots of tremolite - epidote - secondary biotite (some garnet?)				
30												
	Vein	qtz Sph (tr)	Chem. & tectonic						71312	31.1 to 31.19	.08%	9 cm
	diss.	Scheelite				light grey						
	diss.	Scheelite	"									
	diss.	Scheelite	"									
	vein	Scheelite Pyrr. py.										
	"	"	"			dark grey	30°	34-35 Band of contact met. argillite (Hornfels) filled with quartz segregations filled with pyrite - 3 stages of deformation. Scheelite related to final stage.				
35												
	vein	qtz. Pyrr. py.	tect.									
	vein	"	"			grey						
								35-37 Silicified limestone with bands of dark grey skarned lst.				
	diss.	Scheelite (tr)	chem					1/3 meter Scheelite at 36m.	71311	36.16 to 36.30	.08%	14 cm
	diss.	Scheelite (1/3 m)	"			grey	30°					
								38.6 to 39 m Mottled textured hornfels with clots of trem. & epidote				
40												
	diss.	Scheelite	Chem					40.9 to 48.8 m. Highly hornfelsed hard argillite w/ quartz - calcite pyrrhotite pyrite veinlets. Trace Sphalerite				
						black		Cross-faults displacing bedding plane cleavage.				
43												

HOLE No. A-77-1 PROJECT Mt. SALMO

INCLINATION: 70°SE AZIMUTH: N130E COORDINATES: 49° 05'N , 117° 12'W SCALE: 1meter. 1cm LOGGED BY: V.M.R

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE (CLAY SILT FINE MEDIUM COARSE)	COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING LENGTH Meters	ASSAY	ASSAY	ASSAY	ASSAY WO %
43.	Vein	qtz-pyrr py-cal	teet			dark grey to black								
45	Vein	qtz-Sph cal-pyr	"											
	Vein	qtz-pyr cal	"											
	"	"	"					48.8 to 51.1.						
	"	"	"			grey, brown green		Medium to high grade skarn Alternate bands of fine grained garnets (grossular) and diopsides, minor epi. & trem. the lighter bands (pure) of limestones appear to have reacted more intensely.	71310	49.61 to 49.70		4/3m		.30
	diss.	scheelite pyrrhotite	ch'ert											
50	diss.	scheelite pyrrhotite	"			grey, brown green			71309	51.68 to 51.79		1/3m		.16
	diss.	scheelite	"					51.1 to 56.9 & Trm. to 59.9 Hornfels with silicification, purple secondary biotite and diopside. pyrite epidote in veins. Some mottled texture between 55.4 to 55.9						
	vein	quartz-pyrrhotite	teet			dark grey								
						purple brown		← appearance of secondary biotite.						
55	diss.	scheelite	chert											
	vein	Qtz. cal	teet											
	"	"	"											
	diss	scheelite	chert						71308	57.4 to 57.77		37.%		.22
58														

A-77-1 MT. SALMO Page 5

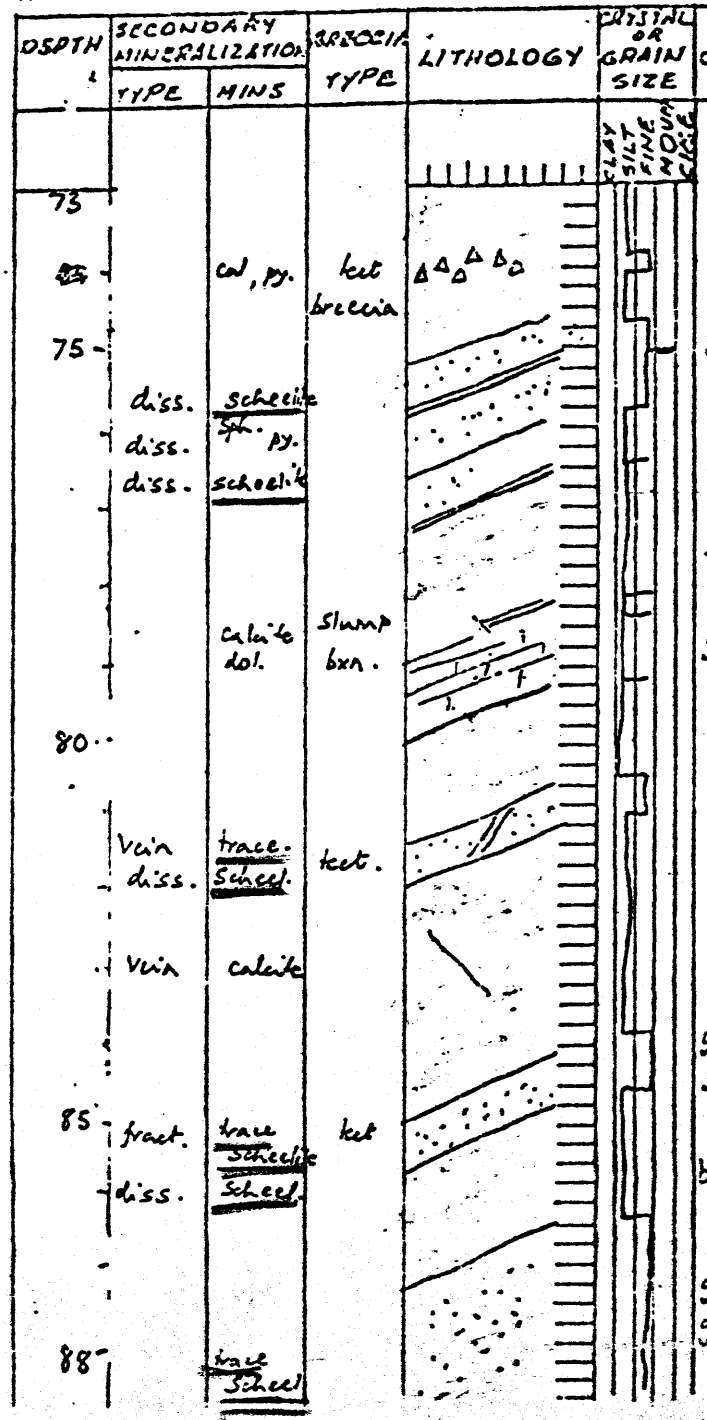
HOLE NO. A-77-1 PROJECT

INCLINATION: 70° SE AZIMUTH: N130E COORDINATES: 49°05'N, 117° 12'W SCALE: 1meter-1cm LOGGED BY: W.R.

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE (CLAY SILT FINE MOD. COARSE)	COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING LENGTH	ASSAY
58	diss.	Scheel	chem.			dark grey	30°				
60	diss. vein fracture	Scheelite	"					64.7 to 70.8 Contact metamorphosed hard argillaceous limestone.. segregations of quartz. some pyrite. quartz-calcite veinlets.			
	diss. & fracture	Scheelite	"			grey to dark grey	30°	Scheelite observed is a little less than the samples assayed.			
65	diss. & fracture	Scheelite	"								
	vein	qtz. Sph. Cal. pyr. Scheelite	tectonic chem.			dark grey	30°				
	vein	scheelite									
	vein diss.	Scheelite pyrite	chem.					fault zone .3 meters wide.			
	vein	sphalerite pyrite	tect			dark grey	30°	70.8 to 72.1 Tectonically brecciated argillaceous limestone with calcite veinlets & fine grained pyrite. scheelite less			
70	"	qtz. pyrite	tect								
	vein	calcite	tectonic breccia			grey					
	vein	qtz. cal py.	tectonic			dark grey					
73											

HOLE A-77-1 PROJECT M.U.T. SALMO Page 4 of 11

INCLINATION: 70°SE AZIMUTH: N130°E COORDINATES: 49°05'N, 117°12'W SCALE: 1cm - 1m LOGGED BY: V.M.R



DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
73											
		cal, py.	ket breccia			black	35°				
75						grey, to dark grey		77.6 to 85.6 Argillite with bedding plane segregations of Quartz. with bands of silicified arg. limestone trem - epi (at 82.6 to 83.1)			
	diss.	scheelite									
	diss.	Sph. py.									
	diss.	schoelite									
						black		85.6 to 88.5			
		calcite dol.	Slump bxn.			grey		Silicified skarny limestone. Spotted mottled texture. The porphyroblasts are epidote and tremolite. (85.7 - 86, 87.9 to 88.5) Interbedded argillite (86.7 to 87.7) Some k-spar at 87.7			
80											
						grey					
	Vein diss.	trace Scheel.	ket.								
						black					
	Vein	calcite									
						grey to green					
85	fract.	trace Scheelite	ket								
	diss.	Scheel.				black					
						grey to green					
88		trace Scheel						88 to 88.6 trace of diss. coarse grained scheelite.			

HOLE NO. A-77-1 PROJECT Mt SALMO Page 7 of

INCLINATION: 70°SE AZIMUTH: N130 E COORDINATES: 49° 05'N, 117° 12'W SCALE: 1metre - 1cm LOGGED BY: V. M.

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	RESERVE TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE (CLAY, SILT, FINE, MEDIUM, COARSE)	COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING LENGTH	ASSAY	ASSAY	ASSAY	ASSAY
88	diss.	Scheelite	chem.				25°	88.9 to 94.3 Silicified limestone - contact metamorphosed to garnet (gross.) diopside skarn with veins of quartz - calcite - diop. 90 to 90.2 mottled texture with K-spar. epi - from veins.						
	fracture	trace scheelite				grey to light grey			71307	91.88 to 92.04		16.0 oz	.15%	.15
90	diss. & vein	Scheelite, Powellite, calcite, Scheelite	chem & test.						71306	92.38 to 92.46				
	"	scheelite, calcite	chem test.				25°	94.3 to 97.7 silicified argillite with 2 quartz segregations. pyrite and pyrrhotite along bedding						
	"	Sphalerite, Py, scheelite				grey								
95	"	"	"			dark grey		97.7 to 98.6 silicified Contact met. limestone with calcite - secondary biotite, quartz, epidote - veins. 102.5 alteration along fracture.						
		Pyrrhotite					25°		71304	97.8 to 97.98		15 oz	.05	.05
	diss.	Scheelite, Sphalerite, Pyrite, Cpy?	chem & test			grey			71305	99.1 to 99.37		27 oz	.05	.01
	diss & fract.						25°							
100	diss	Scheelite				dark grey								
	diss	Scheelite					25°							
103		Sphalerite, Py, Pyrrhotite & scheelite				grey								

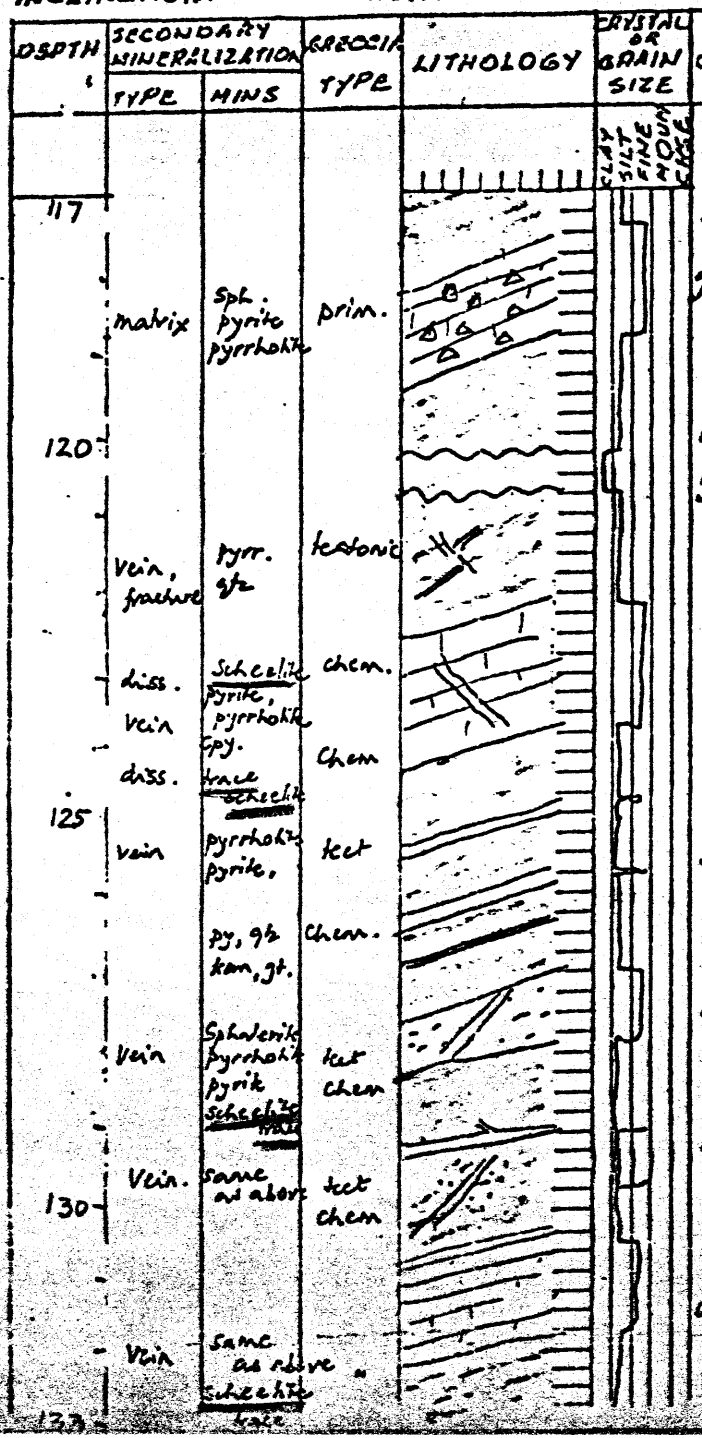
HOLE A-77-1 PROJECT M.U.T SALMO Page 6 of 11

INCLINATION: 70°SE AZIMUTH: N130°E COORDINATES: 49° 05N , 117° 12'W SCALE: 1cm - 1metre LOGGED BY: V.M.R.

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING LENGTH	ASSAY	ASSAY	ASSAY	ASSAY WO_3
103						grey	20°	103.8 to 104.2, 104.9 to 105.3 Contact met. coarse mottled texture with gts - Epi. some k-spars.						
105	Vein	pyrrhotite Cpy, garnet Epi k-spar diop	chem.			grey		105.8 to 106.2 Same as above with primary slump breccia tion.						
						dark grey		109.7 to 110.3 & 110.5 to 111.5						
		pyrite, pyrrhotite				grey	24°	Solution collapse breccia tion. Matrix with Sphalerite & Calcite. Fragments - black argillite. Zebra texture observed in fragments.						
110	slump & Solution	trace Scheelite Sph. py.	primary			dark grey								
						light grey								
							25°	112.4, 112.6, 112.8 - 113.9 Argillite converted to high grade hornfels & secondary biotite in fragments.						
		pyrrhotite pyrite, Calcite Epidote Scheelite	tectonic			grey		At 113.8 bedding destroyed. Diopside, grossular gt. along Vein perp. to bedding.	71303	113.33 to 113.5			17cm	.08%
	tectonic													
115		Scheelite	tectonic											
		pyrrhotite pyrite Sphalerite					25°	blocky argillites. some sphalerite zones.						
117		Sphalerite pyrrhotite	bed & primary											

HOLE No. A-77-1 PROJECT M.U. SALMO Page 11 of 11

INCLINATION: 70°SE AZIMUTH: N130E COORDINATES: 49° 05'N, 117° 12'W SCALE: 1cm - 1metre LOGGED BY: VMR



SAMPLING		ASSAY				
No	LENGTH					

REMARKS

118 to 118.5 argillaceous limestone contact met. qtz, chlorite, phlogopite

Sph. from 118.5 to 118.8

Major fault zone 120.5 - 121.2

124. Cross-cutting vein- pyrite, pyrrhotite, secondary biotite, diopside & garnet - bedding destroyed completely.

126.1 to 126.4 Skarn - trem.-diop. (?) garnets

127. appearence of k-spar.

128 to 128.7, 129.5 to 130.0 Mottled texture.

130.3, 131.4 Hornfels with veinlets.

131.4 Skarn with k-felspar.

HOLE NO. A-77-1 PROJECT M.T SALMO Page 10 of 11

INCLINATION: ∅ 70°SE AZIMUTH: N130E COORDINATES: 49° 05 N , 117° 12'W SCALE: 1metre - 1cm LOGGED BY: VMR

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY Pb	ASSAY Zn	ASSAY
133		trace Scheelite pyrrhotite pyrite				grey	20°	135.3 to 147.7 Hornfels with bedding plane fractures.					
135	Vein		feet			20°		137 to 138.2 Secondary biotite to 140.9 qtz veins with pyrrhotite					
	vein	Sphalerite	feet					142. to 142.7 Veins with secondary bt & k-spar alteration.					
	vein	Sphalerite	feet			dark grey	20°	Sphalerite 144.3 to 145.1 Hornfels with hairline fractures with alteration envelopes.					
140								145.8 to 146.2 secondary biotite.					
								147.2 k-spar bordering quartz veinlets.	71302	142 to 142.7	.036%	1.46%	Cu
	Vein	Sphalerite	feet			dark grey	20°						
	Vein	Sphalerite trace Cpy Sphalerite	feet										
						grey	20°						
145	Vein 8	Sphalerite pyrite	feet										
	bands	Sphalerite pyrite	feet			dark grey to brown	20°	148.5 to 149.5 Spotted hornfels heavily inlain with purply brown sec. biotite in places diopside & qtz (148.7') k-spar (149)					
	Vein	pyrrhotite											
149													

HOLE No. A-77-1 PROJECT MUT SALMO

INCLINATION: 70 SE AZIMUTH: N130E COORDINATES: 49°05'N, 117°12'W SCALE: 1metre-1cm LOGGED BY: V.M.R

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING LENGTH	ASSAY	ASSAY	ASSAY Mo
					CLAY SILT FINE MEDIUM COARSE								
149								149.5 to 156.10					
150								Granite - altered and bleached the mafic minerals are completely destroyed. In place spotted. Highly silicified. Two stages of alteration.					
			qtz-ser-py					① Quartz - sericite - pyrite ~~with molybdenite~~. Sericite mostly green. at. 150.4, 150.9, 151.2, 151.4, 152.5, 153.2 Molybdenite at ~~150~~ 152.3, 153.2.	71301	152.3 -			.036%
			k-spar. sec. bt.					② k-spar & secondary bt. veinlets with alteration envelopes with molybdenite (trace) 154.6, 155, 155.2					
155								Qtz-ser-py is later.					
156	END	OF	HOLE										

HOLE NO. A-78-1 PROJECT: M.U.T. PROJECT DALMO, B.C Page 1 of 8

LOCATION: South of Lost Creek, Mut Mtn
COORDINATES: _____
UTM: _____
NTS: _____ ELEV: (4950) ??
INCLINATION: 90° AZIMUTH: _____
TOTAL DEPTH 116.7 metres.
HORIZ. PROJ. _____ VERT. PROJ: _____

SURVEY		
LENGTH	DIP	AZIMUTH

HOLE STARTED: May 1978
HOLE COMPLETED " 1978
DRILLED BY: KOOTENAY EXPLORATION DRILLING ROSSLAND, B.C.
[redacted]: _____
CORE SIZE: AQ RECOVERY: 95 %
SCALE 1 metre - 1 cm.
LOGGED BY V. M. RAMALINGASWAMY

1 cm = 1 m

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE (CLAY SILT FINE MEDIUM COARSE)	COLOR	BEDDING	REMARKS	SAMPLING No.	SAMPLING LENGTH	ASSAY
1											
2								argillite-			
						dark grey	20	2.7, 3.9 crenulation's bedding			
3								single sheesens.			
4						grey	20	interbedded limy bands closely spaced together.			
								5.2 crenulations.			
5							85	5.6 drag folds.			
						grey to dark grey	20				
	veinlet	Qtz-cal Pyrrh.	kent.				90°	8.0 qtz-cal veinlet with sp. pyrrh. cal (?)			
	vein	Qtz-cal	kent					8.2 - 8.5 nose of a fold - crem.			
	veinl	"	kent.				20	8.6 - qtz-cal veinlet			
	"	"	"					9.0 - 9.1 "			
10						black		9.2 limy band with spots (?)			
								9.8			
								10.4 fault zone - black arg. gouge.			
						grey to dark grey	20				
12											
	veinlet	Qtz cal	kent					Qtz-cal-pyrr veinlet.			

HOLE NO. A-78-1 PROJECT (M.V.T. SALMO PAGE (2 OF 8

INCLINATION VERTICAL AZIMUTH _____ COORDINATES _____, _____ SCALE 1cm-1metre LOGGED BY VMR

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
METRES					CLAY SILT FINE MED. COARSE.						
13						grey to dark grey	30°	Crenulations			
15						"	"				
	veinlet	qtz-cal						qtz-cal veinlet.			
								17.9. Crenulations			
								18.9 to 19.6 Hinge of a drag fold (?)			
	"	qtz-cal	brec.								
20	"	"	"								
								21.6 to 22.9 fault zone with calcite filling graphitic gouge zone.			
	veinlets	qtz-cal									
								24.3 Crenulations due to fault(?) drag & bedding (schistosity)			
25		cal.									
		qtz-cal chl pyr									
29	vein	qtz-cal pyrr	brec.								

HOLE NO A-78-1 PROJECT M.U.T. JALMD PAGE 3 OF 8

INCLINATION VERTICAL AZIMUTH _____ COORDINATES _____, _____ SCALE 1cm.-1metre LOGGED BY VMR

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE (CLAY SILT FINE MED. CRSE.)	COLOR	BEDDING	REMARKS	SAMPLING No.	SAMPLING LENGTH	ASSAY
METRES											
29							20	Crenulations due to faulting. Graphitic gouge.			
30											
	Veinlets	qtz. cal pyrr.				black	30°				
						black		34.9 to 36.1 fault zone with many faults.			
35							20				
						black					
							80	39.1 to 40.5 faulted zone Graphitic slip planes.			
40	Veinlets	qtz cal pyrr.						41.5 to 43.5 fault zone with Cal.-qtz veins in the zone.			
	Veins	qtz cal pyrr.					80°	Crenulations.			
						black		44.8 to 45.6 Qtz Cal veins in tectonically			
		qtz. cal Sch. Chl.				White	20	Extended zones.			
45											

HOLE No A-78-1 PROJECT M.U.T. SALMO PAGE 4 OF 8

INCLINATION VERTICAL AZIMUTH _____ COORDINATES _____ _____ SCALE 1cm - 1meter LOGGED BY VMR

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE (CLAY SILT FINE MED COARSE)	COLOR	BEDDING	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
METRES											
46								black argillite (graphitic schist. -			
							20				
	vein	qtz-cal-pyrr.	brec.					46.6, .7, .8 qtz. cal. pyrr. fract. fillings.			
							20				
	fracture	pyrr. cal.					80				
50								50.4 to 51			
	fracture	pyrr. cal	brec.				30	sch ⊥ to core.			
	fract.	pyrr. cal.	brec.					schistose layers wrapping around the lens layers			
							30				
	fract.	qtz cal py.	brec.								
							30				
55	fract.	qtz cal chl pyr epid.									
	"	"									
								57 to 60.1 fault zone - Graphitic gouge			
60											
61											

HOLE NO A-78-1 PROJECT MUT SALMO PAGE 5 OF 8

INCLINATION VERTICAL AZIMUTH ____ COORDINATES ____, ____ SCALE 1cm - 1metre LOGGED BY VMR

DEPTH	SECONDARY MINERALIZATION Type	SECONDARY MINERALIZATION Mins.	BRECCIA Type	LITHOLOGY	GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING No	SAMPLING Length	ASSAY
METRES					CLAY SILT FINE MED CRSE						
61											
								62.5 Crenulations			
								fault zone 64.3 to 65. with crenulations on either side of fault.			
65											
								66.7 Crenulations.			
								69.2 to 69.8 Crenulations.			
70								70.4 Crenulations.			
	fract.	Qtz-Cal	fract.								
	fract.	"	"								
								73.5 - 74.5 Crenulations.			
								75.6 Crenulations.			
75											
77											

HOLE NO. A-78-1 PROJECT M.U.I.T. SALMO PAGE 6 OF 8

INCLINATION VERTICAL AZIMUTH _____ COORDINATES _____, _____ SCALE 1cm - 1metre LOGGED BY VMR

DEPTH	SECONDARY MINERALIZATION	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING No.	SAMPLING LENGTH	ASSAY
METRES				CLAY SILT FINE MED COARSE						
77					dark grey grey	20° 80°	77.2 to 77.3 limy argillite with limy bands.			
							78.4 to 79.6 Crenulations.			
	Calcite	fract.			black to dark grey	60° 80°	79.6 tectonic bx. with Calcite matrix. fragments are argillite			
80							79.6 to 83.0 darker colored argillite with graphitic slip planes. Lighter colored bands. Calcite veinlets perp to bedding planes. (pyrrhotite) Crenulations.			
	veinlet	Calcite	fract				83 to 83.8 argillite with lighter colored bands. with syngenetic pyrrhotite			
	fault zone						83.8 to 86.6 part of the fault zone - with graphitic portions, bedding cannot be recognized - Calcite veinlets.			
85							86.6 to 89.2 argillite with slip planed.			
	veinlet	Calcite	fract				89.2 to 90.8 Lighter colored limy argillite with brecciated portions (tectonic & sedimentary)			
	Calcite						90.8 to 93.2 darker colored argillite with graphitic slip planes - crenulations			
		sed.	fract				92.5 to 93.1 light colored band at 91.4			
90										
	vein	Cal, qz hematite	fract							
93										

HOLE No. A-78-1 PROJECT M.V.T. SALMO PAGE 1 OF 8

INCLINATION VERTICAL AZIMUTH _____ COORDINATES _____, _____ SCALE 1cm - 1metre LOGGED BY VMR

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MIN.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE (CLAY SILT FINE MED CRSE)	COLOR	BEDDING	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
METRES											
93		trem, cal, qtz, pyr	Chem.				20°	93.6 to 93.9 light colored limey argillite with recrystallized portions. blades of tremolite, calcite, qtz & pyrrhotite.			
							50°	93.9 to 94.7 Crenulations with graphitic slip planes.			
95								94.7 to 94.9 dark & light colored bands.			
								94.9 to 96 black argillite with a few lighter colored bands.			
								96 to 99.7 fault zone with gouge at 99.3 to 99.7 perp. fractures at 97.6 Graphitic slip planes at 98.6 to 99.4.			
100		trem, calc						99.6 to 106.1 light colored limestone contact metamorphosed with tremolite chlorite calcite & pyrrhotite in portions. Calcite & pyrrhotite perp to bedding. Recrystallized in portions. 106 → fractured up hole with graphitic portions.			
		cal, epi, po				light grey to green	30°				
		cal, epi, po trem.									
105		Cal epi po.									
								106.1 to 116.7 fault zone with intense gouge, fragments & high grade skarn trapped in the fault zone.			
							30°				
109											

HOLE No. A-78-1 PROJECT M.U.T. SALMO PAGE 8 of 8

INCLINATION VERTICAL AZIMUTH _____ COORDINATES _____, _____ SCALE 1cm-1metre LOGGED BY VMR

DEPTH (METRES)	SECONDARY MINERALIZATION: TYPE	SECONDARY MINERALIZATION: MINS.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE (CLAY / SILT / FINE / MED / CRSE)	COLOR	BEDDING	REMARKS	SAMPLING: No.	SAMPLING: LENGTH	ASSAY
109											
110		trem, qtz, cal, Gt, po	chem & fract					110.7 Small fragments of high grade skarn with cpi, cal, trem, qtz, Gt, pyrrhotite. Silicification on fragments. 111.4 Calcite filled fault zone			
								114.9 to 115.1 skarn			
115	vein	pyrr, trem, cpi, cal, py, trem, cal, py, pyrrh.	fract chem & fract	End of Hole				116.2 to 116.4 skarn			
120											

NB (DRILLING IN FEET CONVERTED TO METERS FOR LOG.

HOLE No. A-78-2 PROJECT:

LOCATION:
COORDINATES:
UTM:
NTS: ELEV:
INCLINATION: -70 AZIMUTH: N292E
TOTAL DEPTH 236.28 m
HORIZ. PROJ. VERT. PROJ:

SURVEY		
LENGTH	DIP	AZIMUTH
380'	72.8°	
750'	72.3°	

HOLE STARTED: May 1978
HOLE COMPLETED June 20, 1978
DRILLED BY: KOOTENAY EXPLORATION DRILLING
[redacted]:
CORE SIZE: AQ RECOVERY: 95 %
SCALE 1 metre - 1 cm.
LOGGED BY V. M. RAMALINGASWAMY

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE (CLAY SILT FINE MEDIUM COARSE)	COLOR	BEDDING	REMARKS	SAMPLING No.	SAMPLING LENGTH	ASSAY
Metres											
0								0-6.3 Argillite with light colored bands. Crenulations			
		Calcite epi-	Sect.			dark grey to grey	30°	Cross. cutting fractures at 5.5. with epi - limonite & calcite			
							30°				
5											
		Calcite, lim.	Sect.					6.3 – 7.3 argillite with light colored bands.			
		Calcite wollast. trem- po epi						7.3 – 6" band calcite, woll, epi chl., trem, po. graphitic slips.			
								7.3 to 14.9 argillite with crenulations but with cross. cutting fractures with epi. calcite (7.8, 8 8.3 9.2) and a long fracture with po from 12.3 to 13.3			
10											
12											

HOLE NO A-78-2 PROJECT Hut PAGE 3 OF

INCLINATION ____ AZIMUTH ____ COORDINATES ____, ____ SCALE 1cm - 1metre LOGGED BY ____

DEPTH	SECONDARY MINERALIZATION		BRECCIA	LITHOLOGY	GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY
	TYPE	MINS.	TYPE		CLAY SILT FINE MED CRSE				NO.	LENGTH	
METRES											
12	fracture	Calcite epi, po	fract								
		"	fract								
15		"	fract.					Cross cutting throughout the section.			
	fracture	Calcite epi	fract					16.5 to 17 Cross cutting fractured filled with Calcite fracture vein.			
		Calcite epi						19. Same as above			
20								21.0 "			
								21.5 "			
		Calcite epi po									
	fracture	Cal epi po	fract					24.2 fracture ⊥ bedding with Calcite, po etc. Crosscutting.			
								25.2 to 26.0 po, calcite, epi, 2nd bt & Wo. perp to fracture			
25	"	"									
	"	2nd bt.						26.4 Same as above			
28											

HOLE No A-78-2 PROJECT ITU PAGE 3 OF ___

INCLINATION ___ AZIMUTH ___ COORDINATES ___, ___ SCALE 1cm - 1metre LOGGED BY ___

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE (CLAY SILT FINE MED COARSE)	COLOR	BEDDING	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
METRES											
28								29.2 Same as above with 2nd bt. Crenulations throughout.			
							25°				
30											
								31.1 Fault zone with crenulations on both sides.			
		Calcite po.	test	//			60°	32.6, 33, Calcite veinlets with pyrrhotite.			
							50				
35											
								37.2 fault zone with crenulations. bedding perp. to fault plane with calcite, qtz fillings.			
							90°				
	fract.	Calcite trem. po	test	//							
	"	"	"	//			25°				
40	"	"	"	//							
44							65°				

HOLE NO A-78-2 PROJECT Mutt. PAGE 4 OF ____

INCLINATION ____ AZIMUTH ____ COORDINATES ____ , ____ SCALE 1cm - 1metre LOGGED BY ____

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE (CLAY SILT FINE MED CRSE)	COLOR	BEDDING	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
METRES											
44							50°	Crenulations			
45	fract.	Calcite po									
							40°	47.6 Crenulations with graphitic slips.			
	fracture	Calcite po									
								50. pinp fractures to bedding			
50								51.1 lighter colored limy			
							30°	52.0 argillite band. 52.7			
								53.6 Crenulations.			
							70°	8			
								55.2 pinp fractures.			
55		Calcite									
								57.1 calcite po, vein.			
								58.3			
		Calcite po						58 to 58.8 calcite qtz, po, wollastonite veins			
	?	Drill	"					59.7 to 60 lighter limy argillite			
60							30°				

H. E No A-78-2 PROJECT Mill PAGE 1 OF

INCLINATION AZIMUTH COORDINATES , SCALE 1cm-1metre LOGGED BY

DEPTH	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MNS.	BRECCIA TYPE	LITHOLOGY	GRAIN SIZE (CLAY / SILT / FINE / MED / CRSE)	COLOR	BEDDING	REMARKS	SAMPLING No.	SAMPLING LENGTH	ASSAY
METRES											
60								60.5 Crenulations			
	fract.	Calcite PO	fract					61.9 to 64.9 Interbedded limy argillites and argillites			
65								65.2 to 72.2 Highly fractured, crenulated argillite with graphitic slip planes. Calcite-qtz veinlets in perp fractures (68.6)			
		calcite									
70		Calcite									
	fault	Calcite qtz Calcite qtz PO	fract					72.4 fault zone Crenulations with PO.			
	fault	calcite qtz	fract								
75											
76											

HOLE NO A-78-2 PROJECT MUT PAGE 1 OF

INCLINATION _____ AZIMUTH _____ COORDINATES _____, _____ SCALE 1cm-1metre LOGGED BY _____

DEPTH	SECONDARY MINERALIZATION		BRECCIA	LITHOLOGY	GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY
	TYPE	MINS.	TYPE						NO.	LENGTH	
METRES					CLAY SILT FINE MED. COSE.						
76								77.1 to 79.9 Cremulations, highly fractured - fault zone wit gouge at 79.9			
80	veinlets	calcite, py, tr po	brecciated					80.4 to 85.2 fault zone with gouge and highly fractured rock graphitic slip planes.			
				Fault.							
85	fracture	calcite trem.	brecciated chem					85.2 to 87.5 interbedded argilite wit limy argilite. limy argilite has a tiny clots of tremolite.			
								87.5 92.1, highly crushed rock with fault gouge			
				Fault zone				From 88.8 to 92.1 the fault zone is filled with calcite, trem, woll, epi and pyrrhotite veinlets!			
90											
92	veinlets	Calcite qtz, trem, woll, epi po	brecciated								

HOLE NO A-78-2 PROJECT Hut PAGE 1 OF

INCLINATION _____ AZIMUTH _____ COORDINATES _____, _____ SCALE 1cm - 1metre LOGGED BY _____

DEPTH	SECONDARY MINERALIZATION		BRECCIA	LITHOLOGY	GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY
	TYPE	MINS.	TYPE						NO	LENGTH	
METRES					CLAY SILT FINE MED COSE						
92		pyrrhotite					15°	92.1 to 93.1 black argillite with syngenetic pyrite & pyrrhotite, no cremulations & schistosity			
	Skarn	trem, epi, qtz, biot, calcite trace sch.	chem.					93.1 to 94.4 Skarn with trem, epi, biotite, Calcite & quartz. trace of blue-white scheelite. 2nd bt at 94.4.			
95		qtz, cal, sphalerite po,						94.4 to 103 dark grey argillite with syngenetic pyrite & pyrrhotite sphalerite mineration 96.2-97.2 99.4 (6") Dike argillite is spotted with clots of bt, trem. Sph. is primary (?)			
		sphalerite									
100								103 to 103.6 skarn - clots of trem, bt. bands with trem, epi, qtz			
		trace scheelite powellite	chem.					103.6 to 104.9 Spotted hornfels with clots of trem, bt. calcite, po,			
	Skarn.							veinlets at 104.3 104.7			
105								105.7 to 106.4 fault zone			
		sph. qtz calcite po,						106.4 to 109.2 spotted hornfels blades of trem, bt.			
108								Skarn from 108 to 108.6 trace scheelite			

HOLE NO A-78-Z PROJECT - MUT PAGE 8

LOGGED JRP

DEPTH M	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BX TYPE	LITHOLOGY	GRAIN SIZE	COLOUR	BEDDING ∠	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
								109.20 - 115.85			
					Fine	BLACK	80°	ARGILLITE - BLACK DENSE BROKEN - FISSILE BEDDING @80° CONTAINING THIN FILMS CALCITE MINOR SULFIDE PYRITE, PYRRHOTITE. SECTIONS POKER CHIP VARIETY. MINOR NUMBER CALCITE FILLED FRACTURES ≈ // to CORE			
110		Py, Pyrr. Calcite Qtz									
115								@ 115.85 - 116.1 Bx CALCITE STRINGER ZONE Cs @ 45°			
					FINE	BLACK	80°	116.1 - 123.0 ARGILLITE GEN DENSE. CONTAINING INFREQUENT QTZ FIL WITH Py ± PYRR. @ 118.0 DISS Py FOR 0.1 m. @ 120.8 - 120.13 QTZ FIL WITH Py PYRR Cs @ 85°			
		Py Pyrr Qtz Calcite									
120											
					FINE	BLACK	80°	ARG 123.00 - 130.38 DENSE BLACK UNIFORM TEXTURED VERY MINOR SULFIDES, GEN. IN THIN SEAMS WITH QTZ @ 129.36 - 129.44 QTZ - CALC Cs BLEND @ 75-80°			
		Py Pyrr Qtz									
125											

HOLE NO A-78-2 PROJECT - MUT PAGE 9

LOGGED

DEPTH M	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BX TYPE	LITHOLOGY	GRAIN SIZE	COLOUR	BEDDING ∠	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
130								ARGILLITE 130.38 - 137.59 GENERALLY AS ABOVE BUT CONTAINING WIDER SECTIONS SULPHIDES AND SILICIFIED MORE EXTENSIVELY.			
	SCARN	Py PyPR CHALCO TR Schulte			fine	DK.	80°	@130.54 - 130.68 MASS. SULPHIDES 75 to 80% CONSISTING Py, PyPR, AND CHALCO IN QTZ GANGUE AS BLEND @ 85°			
135								@131.18 - 131.40. Py PyPR IN SLIGHTLY LINY SECT^N			
								@ 131.49 - 131.56 SCARN			
								@133.35 - 133.45 Sp CHLCO ARG. POSSIBLE SCARN ??			
								@134.44 - 135.00 BLEACHED SECTN - DISS Py - ALSO Py ON PLANES & IN THIN QTZ FIL PINK FELDSPAR IN FILMS			
140					fine	DK.	80°	ARGILLITE 137.59 - 149.66 BLACK UNIFORM TEXTURED Rx AS ABOVE WITH MINOR			

HOLE NO A-78-2 PROJECT MUT 1 OF 10

LOGGED

DEPTH M	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	Bx TYPE	LITHOLOGY	GRAIN SIZE	COLOUR	BEDDING ∠	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
		Py, Pyrr Zns			Fine	BL	80°	QTZ-CALC FIL @137.71 - 137.80 QTZ LAMIN. ATED ZONE. CONTAINING Py, Pyrr, Sphal, Zns? @141.70 - 141.80 GRAPHITE, Py, CALC IN FILM // to core			
145											
					Fine	BL.	80°	AEG 144.66 - 151.83 As above, uniform textured black hornfelsic calc qtz fels // to core			
						GREY		@144.66 - 144.90 Calc-qtz fil // to core with trace Pyrr.			
150		Py, Pyrr Zns.						@146.90 - 146.98 Diss Py Pyrr. Sphalerite.			
							80°	@ 149.71 - 149.84 Bleached (slightly) mineralized sect'n with Py, Pyrr, Sphalerite @ 151.50 - 151.60 Bleached sect'n Finely diss Pyrr + Zns?			
								ARGILLITE 151.83 - 159.39 (As above)			
155							80°	@152.30 - 152.41 Bleached sect'n @153.78 - 153.93 Qtz incl. with Pyrr @ fcs. @155.5 - 155.8 Bleached sect'n			

HOLE NO A-78-2 PROJECT: MUT PAGE: 11 OF

LOGGED

DEPTH M	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BX TYPE	LITHOLOGY	GRAIN SIZE	COLOUR	BEDDING ∠	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
160		TR Sheelite By PyRR TR Sheelite				Grey-Black	80°	ARG 159.39-166.5 @ 160.66-160.70 QTZ Splash with py PyRR, TR Sheelite @ 161.3 Seamy Sect with Sheelite 3cm @ 161.52-161.56 QTZ INCL CS Blend. Py PyRR ARG generally has grey colour mottled appearance with qtz calcite felmsd ± 60° to core			
165						Grey Black	80°	ARG 166.5-173.46 GREY VARIETY with qtz Calcite splash & STR. Thin Sectn of seamy material. Minor py PyRR & Biotite in narrow sectns @ 167.42-167.44 Seam with Biotite @ 170.69-170.74 QTZ STR @ 75° @ 172.60-172.65 SILICIOUS STR @ 70° CS Blend.			
170											
						Black	80	ARG 173.46-180.74 BLACK DENSE VARIETY @ times Specified MINOR QTZ Calcite Splash & felmsd			
175											

(HOLE NO A-78-Z (PROJECT HUT PAGE 12 OF

LOGGED

DEPTH M	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	Bx · TYPE	LITHOLOGY	GRAIN SIZE	COLOUR	BEDDING ∠	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY			
180							60°±	ARG -180.74 – 188.90 Spotted Variety 186.36 then Dense Black Variety, Minor qtz calc films @ 70-75° Thin sect'n of Py, Pyr.						
190														

HOLE NO A-78-2 PROJECT MUT PAGE 13

LOGGED

DEPTH M	SECONDARY MINERALIZATION TYPE	SECONDARY MINERALIZATION MINS	BX TYPE	LITHOLOGY	GRAIN SIZE	COLOUR	BEDDING ∠	REMARKS	SAMPLING NO	SAMPLING LENGTH	ASSAY
195								ARG As Above Grey BC 188.30 - 196.00 Speckled Variety. Minor QTZ - Calc fstrs Py			
					Grey BC		80°	ARG 196.00 - 203.46 Speckled VARIETY. MINOR QTZ - CALC INCL + STR. Grey BC, Py			
								ARG 203.46 - 210.79. As ABOVE @ 210.00 - 210.03 QTZ Calc STR @ 85°			
								ARG 210.79 - 218.30 As ABOVE Dense Black Variety. Py XTALS AND Smears			
								ARG 218.30 - 225.67 @ 219.62 - 219.92 Sil Bleached Sect^N with Py - Pyrr 65° @ 224.18 - 224.27 Bleached Sil Sect^N Possible Scarn 65° @ 225.48 - 225.81 Sil Sect^N 80° ARG 225.67m - 226.52 ARG As ABOVE			
								GRANITE 226.52 - 226.90			
								ARG 226.90 - 229.14 ARG AS ABOVE TRACE Sulphide			

DIAMOND DRILL RECORD

Hole No. A-76-2

PROPERTY M.U.T GROUP BENSON MINES LTD

Sheet No. 13-14

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Direction at Start: Dip _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Date	Feet Drilled	Total Depth	SECTION From	SECTION To	SECTION ~~Feet~~ m	REMARKS (LOG)	Core Recovery	Foliation Inclination
		↑	225.67	226.52	0.85	ARG (AS ABOVE)		
	Repeat		226.52	226.90	0.38	GRANITE - BLEACHED ALTERED.		
	Of Page					DEVOID OF MAFICS GENERALLY		
	13.	↓	226.90	229.11	2.21	ARG (AS ABOVE) TR. Schel. Ic		
			229.11	230.28	1.17	GRANITE GREY GREEN VARIETY BLEACHED		
						MINOR Py. POSSIBLE WHISPS OF MOLYBDENUM		
			230.28	230.60	0.32	ARG AS ABOVE		
			230.60	236.28	5.68	GRANITE (AS ABOVE)		
						END OF HOLE		
						775' or 236.28 m		

Drilled by: _____

J Polon
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. A-78-3

Sheet No. 1 of 9

PROPERTY M.U.T CLAIMS
BENSON MINES LTD.

Location: Claim No. M.U.T #5
Lat
Dep
Elevation of Collar 3020' (920.49)m
Datum
Bearing

Direction at Start: Dip -90°
@ 165' -90°
@ 330' -90°

Started Nov 5, 1978
Completed Nov 21, 1978
Ultimate Depth 334 ft. (101.8m)
Proposed

Core Size AQ

Date	Feet Drilled	Total Depth	SECTION From	To	Feet	REMARKS (LOG)	Core Recovery	Foliation Inclination
			0.0	4.5	4.5' 1.37m	GRANITE - ALTERED BUFF BROWN TO PINK		
						WITH LIMONITIC STAINING		
			4.5	5.7	1.2' 0.37	ARGILLITE - SILICIOUS VARIETY WITH		
						MINOR DISSEMINATED SULFIDES,		
						PYRITE		
			5.7	14.0	8.3' 2.53	GRANITE - ALTERED, LIMONITIC SPECKLING		
						SULFIDES PYRITE MINOR MoS_2		
			14.0	26.5	12.5' 3.81	ARGILLITE - THIN BEDDED WITH MINOR PYRITE		
						AS FILMS AND BDS. BEDDING AT		
						30°- 45°		
			26.5	46.5	20.0' 6.10	GRANITE - SILICIOUS QUARTZY INCLUSIONS		
						WITH SEAMS & BDS PYRITE. MINOR		

Drilled by: KOOTENAY EXPLORATION DRILLING LTD

JOHN R. POLONI
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

PROPERTY _____

Sheet No. 2 of 9

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Direction at Start: Dip _____

Date	Feet Drilled	Total Depth	SECTION From	To	Feet	REMARKS (LOG)	Core Recovery	Foliation Inclination
						MoS_2. FRACTURED, WITH LIMONITIC FILAMENTS		
						MANGANESE, AND BODY PYRRHOTITE		
			46.5	50.2	3.7' 1.13	ARGILLITE - DENSE BLACK VARIETY WITH QUARTZ		
						FILAMENTS AND INCLUSIONS BOTH CONCOR-		
						DANT & DISCORDANT. PYRITE DISSEMINATED		
						AND AS FILMS. CS AT 80°		
			50.2	53.2	3.0' 0.91	GRANITE - BLEACHED SILICIOUS, MICA, AND		
						MINOR HINT MoS_2		
			53.2	54.0	0.8' 0.24	ARGILLITE - BROKEN CORE, NEAR CS POSSIBLE		
						FAULT @ 85°		
			54.0	55.0	1.0' 0.31	GRANITE - BLEACHED, WITH MINOR LIMONITE		
						CS @ 55°		

Drilled by: _____

_____
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

PROPERTY _____

Sheet No. 3 of 9

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Direction at Start: Dip _____

Date	Feet Drilled	Total Depth	SECTION From	SECTION To	SECTION Feet	REMARKS (LOG)	Core Recovery	Foliation Inclinatio
			55.0	56.0	1.0' 0.31	ARGILLITE - WITH QUARTZ INCLUSIONS, PYRITE		
						AS PODS AND FILMS.		
			56.0	90.0	34.0' 10.36	ARGILLITE - DENSE BLACK @ TIMES SOMEWHAT		
						CONTORTED, PYRITE THROUGHOUT AS		
						FILMS & PODS BEDDING @ 65°		
						@ 70.3 - 70.8 INTRUSIVE WITH MINOR		
						SPECKLED MoS_2 & PYRITE		
						@ 87.6 - 87.8 QUARTZ FILAMENT WITH		
						FAIR PYRITE, CONTORTED CS @ 40°		
			90.0	100.5	10.5 3.20	SILICIOUS SEDIMENTARY UNIT WITH SECTIONS		
						OF PEGMATITIC PINK FELDSPAR, SCARN		
						@ 92.0 - 96.5 FINELY DISSEMINATED		

Drilled by: _____

_____
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

PROPERTY _____

Sheet No. 4 of 9

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Direction at Start: Dip _____

Date	Feet Drilled	Total Depth	SECTION From	SECTION To	SECTION Feet	REMARKS (LOG)	Core Recovery	Foliation Inclination
						MoS_2, POSSIBLE POWELLITE?		
						@ 96.5 – 101.5 DISSEMINATED MoS_2 IN		
						SILICIOUS UNIT WITH LIMY SECTIONS		
						POWELLITE?		
			100.5	117.3	16.8 5.12	SCARN – MoS_2 FOR 0.3' FROM 100.5 – 100.8		
						MINOR MoS_2 INFREQUENTLY IN MORE		
						SILICIOUS SECTIONS. POWELLITE?		
			117.3	126.0	8.7 2.65	"NEAR" SCARN @ TIMES SILICIOUS WITH VERY		
						MINOR SULFIDES. POWELLITE?		
			126.0	199.1	73.1 22.28	SILICIOUS BEDDED UNIT @ TIMES WITH VERY		
						FINE SULFIDES PYRITE, NEAR CS @ 60°		
						SULTYPE, UNIT BECOMES SLIGHTLY		

Drilled by: _____

_____
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

PROPERTY _____

Sheet No. 5 of 9

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Direction at Start: Dip _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Date	Feet Drilled	Total Depth	SECTION From	SECTION To	SECTION Feet	REMARKS (LOG)	Core Recovery	Foliation Inclinatio
						SCARNY @ 129.0', CONTAINS THIN LIMY		
						MEMBERS SOMEWHAT CONTORTED INFREQ-		
						UENTLY. BEDDING 45-50°. POWELLITE?		
						@ 147.0 - 150.9 LIMONITIC FILMS		
						@ 161.7 - 161.8 LIMESTONE (BLUE)		
						@ 164.8 - 165.1 ALTERED GRANITE		
						@ 165.1 - 181.0 SLIGHTLY SCARNY		
						@ 181.0 - 195.5 SILICIOUS "NEAR" SCARN		
						BEDDING @ 65°		
						@ 195.5 - 195.6 ARGILLITE		
						@ 195.6 - 199.1 "NEAR" SCARN, SILICIOUS		
						SEDIMENT, BEDDING CONTORTED & @		

Drilled by: _____

_____
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

Sheet No. 6 of 9

PROPERTY _____

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Direction at Start: Dip _____

Date	Feet Drilled	Total Depth	SECTION From	To	Feet	REMARKS (LOG)	Core Recovery	Foliation Inclinatio
						TIMES ALMOST PARALLEL TO CORE		
			199.1	202.6	3.5 1.07	BASIC DIKE, WITH POOR & FINELY		
						DISSEMINATED SULFIDES (PYRITE)		
						NEAR Cs @ 20°, FAR Cs @ 40°		
			202.6	242.0	39.4 12.01	SILICIOUS "NEAR" SCARN AS ABOVE		
						@ 203.1 - 203.9 MoS_2 as BDS & THN		
						FILMS IN SCARN		
						@ 210.0 - 212.5 SCARN		
						@ 212.5 - 216.0 "NEAR" SCARN - SILICIOUS		
						@ 216.0 - 221.5 SCARN - SULFIDES @		
						219.0 FOR 0.5'		
						@ 221.5 - 224.1 SILICIOUS UNIT, BEDDING		

Drilled by: _____

_____
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

PROPERTY _____

Sheet No. 7 of 9

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Direction at Start: Dip _____

Date	Feet Drilled	Total Depth	SECTION From	SECTION To	SECTION Feet	REMARKS (LOG)	Core Recovery	Foliation Inclinatic
						@ 40° LIMY		
						@ 224.1 - 229.9 SCARN		
						@ 229.9 - 235.9 "NEAR" SCARN, SILICIOUS UNIT		
						@ 235.9 - 242.0 SEDIMENT - LIMY ARGILLITE BEDDING @ 40°		
			242.0	248.8	6.8' 2.07	BASIC DIKE WITH CALCITE FILAMENTS AND PODS, FINEGRAINED NEAR CS @ 20°		
			248.8	249.3	0.5 0.15	SILICIOUS LIMONITIC UNIT WITH MINOR MOS2		
			249.3	249.7	0.4 0.12	DIKE AS ABOVE		

Drilled by: _____

_____
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

PROPERTY _____

Sheet No. 8 of 9

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Direction at Start: Dip _____

Date	Feet Drilled	Total Depth	SECTION From	SECTION To	SECTION Feet	REMARKS (LOG)	Core Recovery	Foliation Inclination
			249.7	261.0	11.3' 3.44	ARGILLITE - WITH QUARTZY SILICIOUS BANDS.		
			261.0	263.3	2.3' 0.70	BRECCIA ZONE CEMENTED ARGILLITE AND QUARTZ FRAGMENTS TO 0.1' WITH MINOR LIMONITE		
			263 3	272.0	8.7 2.65	ARGILLITE WITH THIN SEAMS OF SULFIDES (PYRITE) NEAR CS @ 65°		
			272.0	274.8	2.8 0.85	SILICIOUS UNIT WITH MINOR ARGILLITE		
			274.8	334.0	59.2 18.04	ARGILLITE - POKER CHIP VARIETY BEDDING @ 65° WITH THIN SEAMS SULFIDES (PYRITE). SECTIONS OF QUARTZ		

Drilled by: _____

_____
Geologist in Charge

DIAMOND DRILL RECORD

Hole No. 78-3

PROPERTY _____

Sheet No. 9 of 9

Location: Claim No. _____
Lat _____
Dep _____
Elevation of Collar _____
Datum _____
Bearing _____

Started _____
Completed _____
Ultimate Depth _____
Proposed _____

Direction at Start: Dip _____

Date	Feet Drilled	Total Depth	SECTION From	SECTION To	SECTION Feet	REMARKS (LOG)	Core Recovery	Foliation Inclinatio
						BEDDING GENERALLY CONCORDANT FOR		
						0.1' — 0.2', INFREQUENT THIN FILAMENTS		
						OF QUARTZ DISCORDANT.		
						END OF HOLE 334.0'		
						(101.8 m)		

Drilled by: _____

_____
Geologist in Charge