

REPORT ON GEOLOGICAL, PHYSICAL AND DRILLING WORK,

M.U.T. CLAIMS GROUP C, SALMO AREA, B.C.

WORK PERFORMED DURING MARCH, APRIL, AUGUST, SEPTEMBER,
NOVEMBER AND DECEMBER, 1977.

V.M. RAMALINGASWAMY

MARCH 10, 1978

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

6667
NO.

PART
3 OF 3

FILE NO. 166-NELSON

INTRODUCTION

Location and Accessibility:

The M.U.T. group of mineral claims are located in the Nelson Mining Division (N.T.S. 82F 3W; $49^{\circ} 05'N$: $117^{\circ} 12'W$) and cover both sides of the Lost Creek valley. The property is easily accessible by B.C. Route 3 and is 15 km south of the village of Salmo. A 4 wheel drive road leads northerly between Wilson Creek and Lost Creek to the workings, a distance of 6.5 kms.

The northern portion of the claims group is accessible by a road along the Lost Creek.

CLAIMS INFORMATION

The M.U.T. mineral claims consist of:

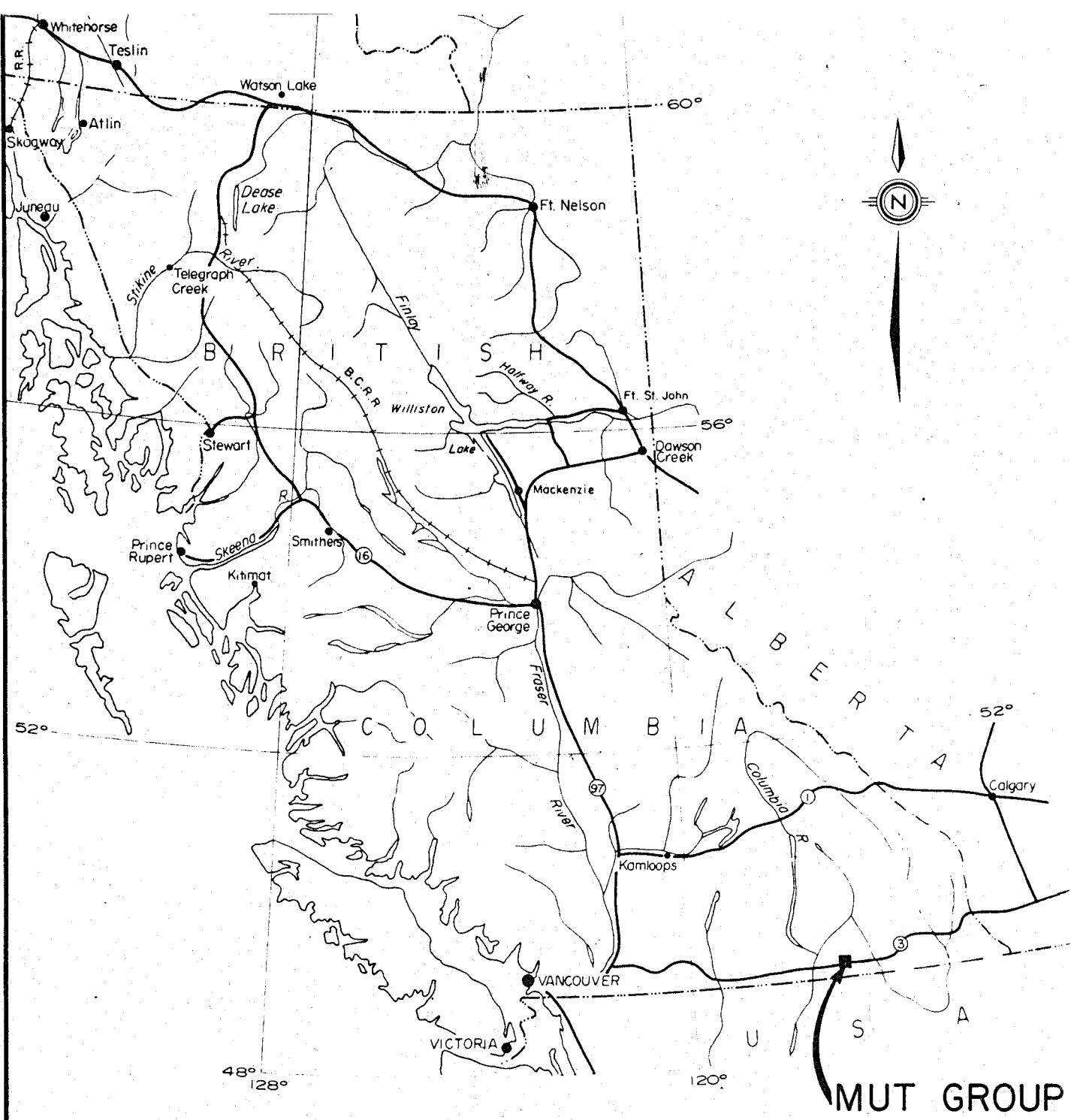
Claim	Units	Record No.	Anniversary
M.U.T. 1	10	371 (11)	Nov. 30, '78
M.U.T. 2	10	372 (11)	Nov. 30, '78
M.U.T. 3	16	373 (11)	Nov. 30, '78
M.U.T. 4	16	374 (11)	Nov. 30, '78
M.U.T. 5	16	377 (12)	Dec. 7, '78
M.U.T. 6	16	378 (12)	Dec. 7, '78

M.U.T. 1 & 4 are grouped as M.U.T. Group A,

M.U.T. 2 & 3 are grouped as M.U.T. Group B, and

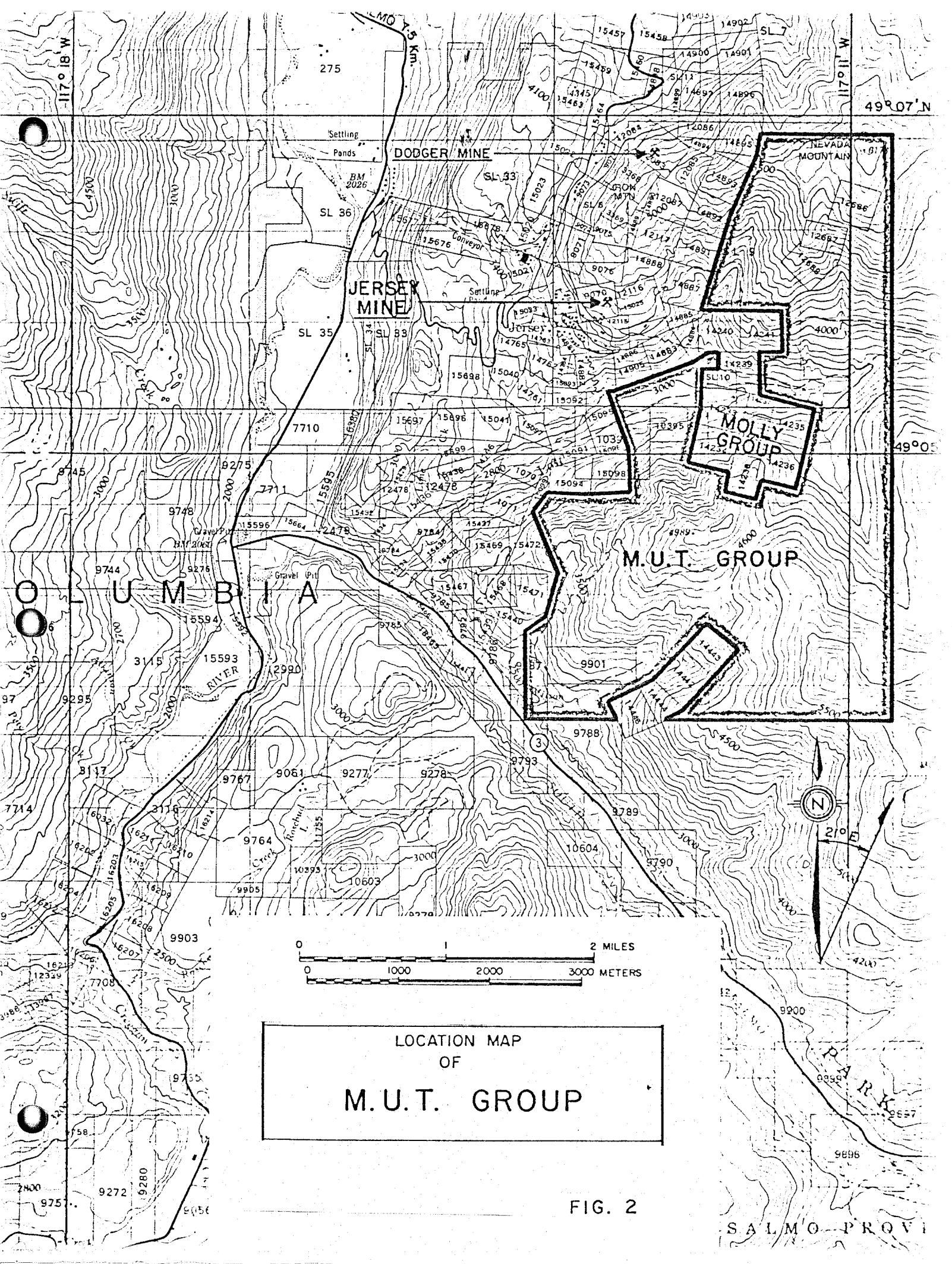
M.U.T. 5 & 6 are grouped as M.U.T. Group C.

This report covers M.U.T. Claims Group C.



LOCATION MAP

SCALE
MILES 300 150 0 300 600 900 MILES



LOCATION MAP
OF
M.U.T. GROUP

FIG. 2

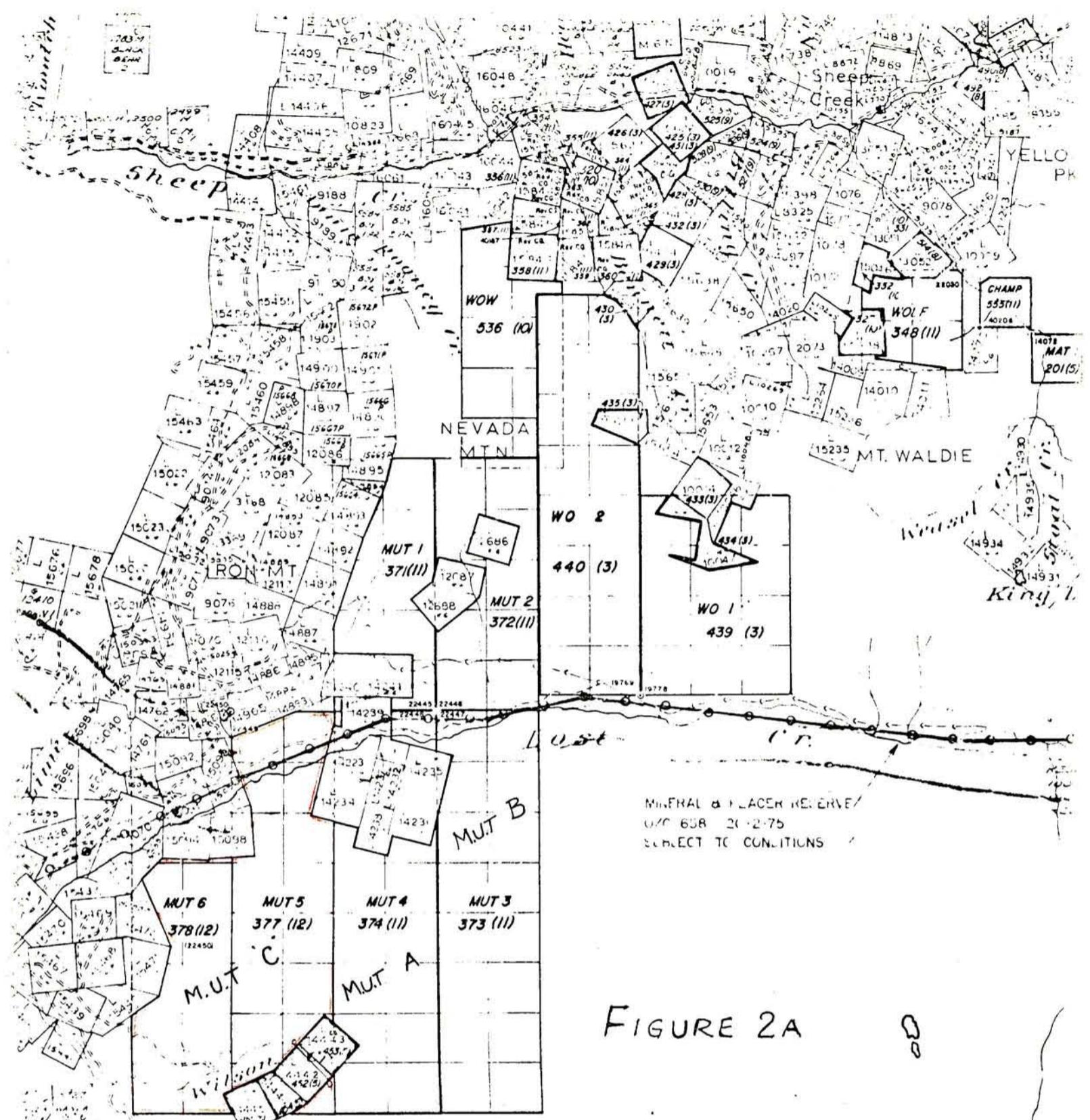
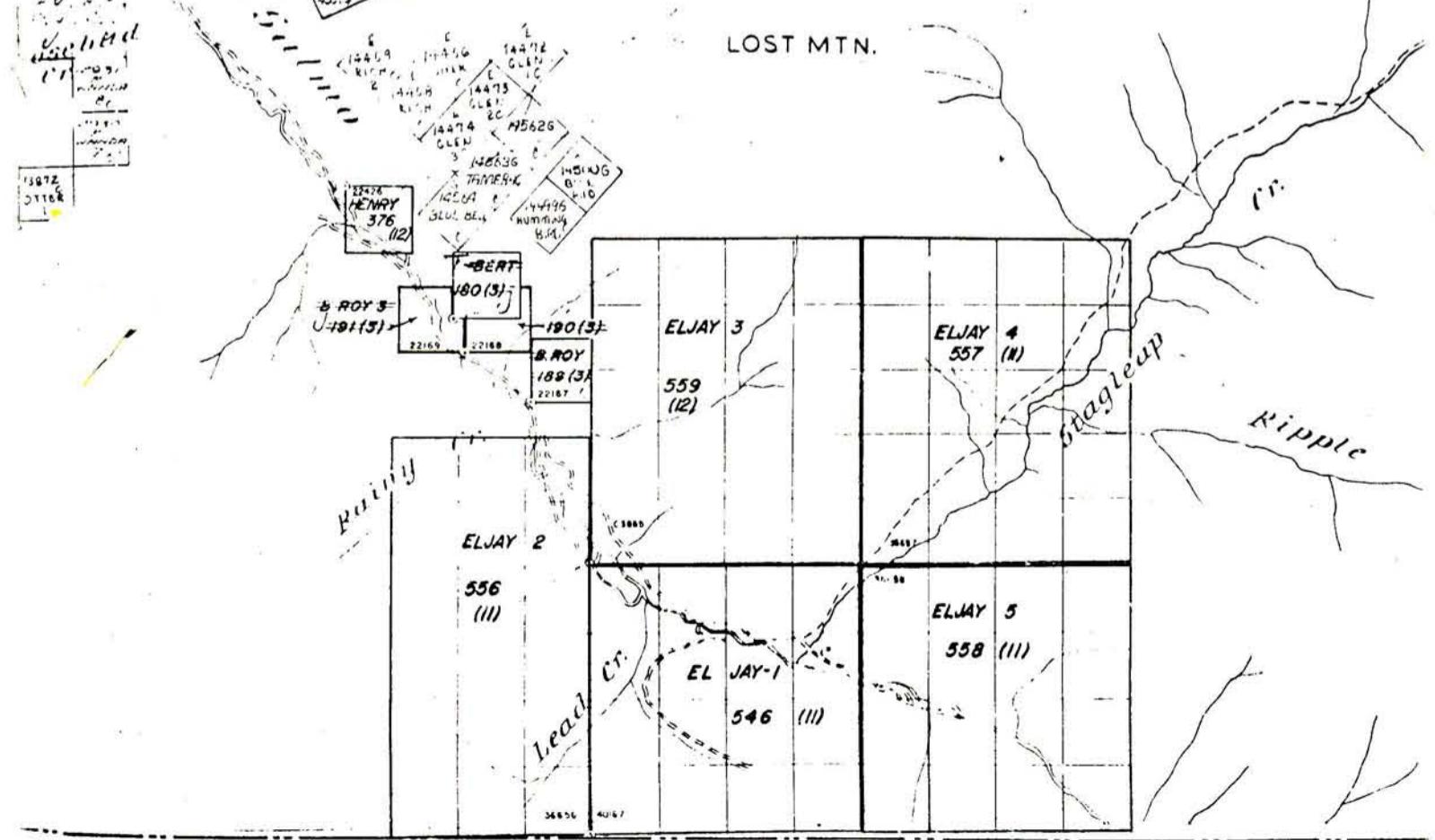


FIGURE 2A



GENERAL GEOLOGY

The general geology of the area is described in detail in British Columbia Department of Mines Bulletin 41. The geology in the area consists of early Paleozoic sedimentary rocks, which form the Mine Belt in the west, Argillite Belt in the middle and Eastern Belt in the eastern portion of the area. Mainly early Cambrian Laib Formation rocks occur in the Mine Belt and the Argillite Fault separates them from the Argillite Belt. Ordovician Active Formation argillites form the Argillite Belt. The Black Bluff thrust fault brings the Eastern Belt (Early to late Cambrian Carbonate and phyllitic rocks) over the Argillite Belt.

These belts are intruded by Cretaceous Nelson batholithic rocks.

LOCAL GEOLOGY

Though this report concerns M.U.T. Group C, it is more appropriate to cover all the claim groups as one with regard to geology. The claims area consist of predominantly argillites with interbedded limestones of the Ordovician Active Formation. These rocks strike north-east and dip south-east on the south side of Lost Creek, whereas the rocks predominantly strike north-south and dip east on the north side of Lost Creek. These Active Formation rocks have been thrusted over by the Black Bluff Fault by the Upper Cam-

brian Nelway limestones and phyllites.

The Active and Nelway Formation rocks were intruded by the Cretaceous Lost Creek granites (Nelson Batholithic rock) in the eastern portion of the claims.

MINERAL DEPOSITS IN THE AREA

Mineral Deposits of interest in the area include the Molly Mine, the Jumbo, the Tungsten King and the Emerald (Feeney, Dodger) Mine.

The Molly Mine is located within the M.U.T. claim group on the south side of Lost Creek. Here scheelite occurs in skarn formed in limy argillite and interbedded limestone of the Active Formation near its contact with the granite of Lost Creek Stock.

The molybdenite mineralization occurs in the concentric fractures and is disseminated within the peripheral shell of the granite intrusion near the contact with the limestones (see Figure 3)

The Jumbo prospect also occurs within the M.U.T. claims group, but on the north side of Lost Creek. Here also scheelite occurs in contact metamorphosed limestone and argillite near the contact with the Lost Creek Stock granite.

The Tungsten King property lies just outside the western boundary of the M.U.T. claims on the north side of Lost Creek.

Here scheelite mineralization occurs in the skarn formed due to contact metamorphism of the Reeves limestone and Truman argillite by the Emerald stock.

The Emerald, Dodger and Feeney mines are all located just beyond the northwestern boundary of the M.U.T. claims. Here again, as in the case of Tungsten King scheelite has been mined from the skarn zone formed in the Reeves limestone near the contact with the Emerald and Dodger stocks.

MINERALIZATION

Three types of mineralization occur within the claims area.

1. Scheelite-molybdenite mineralization in skarn zones.
2. Molybdenite mineralization in the granite, and
3. Lead-zinc-silver veins in the Black Bluff fault zone.

Scheelite-molybdenite mineralization occurs in the skarns formed due to contact metamorphism of limy argillites with interbedded limestones by the granite of the Lost Creek granite. Extensive silicification of the distal portions of the limestone from the contact is common, and grading into high grade grossular garnet-diopside-epidote-potash feldspar at the proximal portions. Scheelite occurs as fracture controlled as well as disseminated. Scheelite with blue-white fluorescence is present in silicified limestones and is more fracture controlled than disseminated. Scheelite with

cream yellow fluorescence is present near the contact. This relationship can very well be seen at the skarn south-east of the Molly Mine. The areas favourable for the occurrence of the skarn zones is shown in Figure 3.

Molybdenite mineralization occurs in the peripheral shell in the granite near the contact with argillite with interbedded limestone. It is present as sheeted zone in concentric fractures. The molybdenite mineralization also carries some uranium. The other type of mineralization is molybdenite with porphyry type affinities, encountered in the drill hole. This will be described in detail in the following chapter.

Argentiferous galena-sphalerite mineralization occurs in the Black Bluff Fault in the United Verde crown grants in the southern portion of the claims group. The mineralization is probably remobilized from stratabound mineralization occurring in the Nelway limestone.

RECENT WORK AND RESULTS

The work done on M.U.T. Group C consists of:

1. Geological Mapping
2. Physical Work
3. Drilling

Geological Mapping: The geological mapping was done on a scale of

1 cm to 125 metres for the area immediately surrounding the Molly Mine. This is main area of interest at the present time. Figure 3 is the result of this work. Many areas of interest with respect to skarn zones shown in the map were the result of this mapping. This mapping will be expanded next year to cover all the areas covered by the mineral claims.

Physical Work: This work consists of improvement of existing roads, construction of new roads in support for drilling, and trenches. The work has been shown in detail in Figure 4.

Drilling: The drill hole was located 30 meters south of the trench A. The rocks exposed in the trench are silicified limestone and hornfelsed argillite. Scheelite occurs in minute fractures in silicified limestone in the trench. The hole was planned such that the contact of granite with the limestone will be intersected.

A thick sequence of limestone and limy argillite (50 metres true width) was intersected showing stronger alteration and more evident tungsten mineralization at depth. About 40 metres of highly hornfelsed rocks were cored before bleached and altered granite was encountered. The fractures in the granite showed alteration envelopes with molybdenite mineralization. Two stages of alteration were observed; quartz-sericite-pyrite and k-feldspar-secondary biotite. Some disseminated molybdenite was also observed (see drill logs).

CONCLUSIONS AND RECOMMENDATIONS

Geological mapping along with drill hole data has shown that a significant sized skarn zone probably occurs at the contact of the limestones encountered in the drill hole, A-77-1 and the granite in an area immediately east, north-east and south-east of the drill site, A-77-1 (see Figure 3A). The sequence of planned drill holes are shown in Figure 3.

Other areas for the possible occurrence of skarns are also shown in Figure 3.

Targets can be outlined using:

1. Magnetic surveys (very useful in defining skarn zones, because of the presence of mafic minerals and bleached granite).
2. Geochemical surveys for Molybdenum, Lead, Zinc and Tungsten; lead and zinc anomalies outline limestones and molybdenum outlines granite.
3. The possible targets then explored by diamond drilling.
4. Geological mapping should be extended to the whole area of the M.U.T. claims.

CERTIFICATE OF EXPENDITURES

The following is a statement of expenditures incurred on the M.U.T. Group C claims during the months of March, April, August, September, November and December, 1977. The total number of weeks worked are 14.

Geological Work (5 weeks)

	Dollars
Travel.....	83.00
Truck Rental (@ \$25/day).....	290.00
Field Supplies.....	25.00
Motel.....	230.00
Food.....	160.00
Consulting Geologists' Fees J.H. Montgomery... ^{April 2, 1977}	244.00
G. von Rosen... ^{September 27, 1977}	393.00
Preparation of Reports.....	<u>16.00</u>
Total.....	1441.00

Physical Work (3 weeks)

Road construction & improvement of existing roads (construction 600 metres, improvement 6.2 km.)	
2 trenches (1 metre X 10 metres X 2 metres & .7 metre X 7 metres X 1.5 metres).....	520.00
Personnel — 1 caterpillar (D7) & 1 helper.	
Travel (M.U.T. A,B & C- \$ 150.00).....	50.00
Truck Rental (\$ 25.00/day).....	175.00
Food and Motel.....	240.00
Field Supplies.....	<u>25.00</u>
Total.....	1010.00

Drilling (November 17 to 30, 1977)

	Dollars
Drilling AQ WL 102 metres out of the total 156.1 metres Logan Diamond Drilling, Salmo, B.C.	4759.00
Cat work, ploughing the snow and pulling water tanks in support of drilling (\$ 32.00/Hr).....	2290.00
Travel.....	250.00
Truck Rental.....	850.00
Motel (\$ 20.00/day) 6 weeks.....	840.00
Food.....	600.00
Field Supplies.....	80.00
Consulting Geologist Fees (G. von Rosen, Nov. 30, 1977) ..	<u>750.00</u>
Total.....	10419.00

Total Expenditures Incurred

	Dollars
Geological Work.....	1441.00
Physical Work.....	1010.00
Drilling.....	<u>10419.00</u>
Total.....	12870.00

The above expenditures were paid by Westwind Mines Ltd.,
904-845 Dunsmuir St.
Vancouver, B.C.

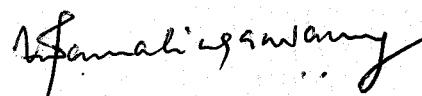
CERTIFICATE OF QUALIFICATIONS

I, V. Mohan Ramalingaswamy, hereby declare that:

1. I obtained the degree of B.Sc. Honours in Geological Sciences, Indian Institute of Technology, Kharagpur, India, 1968.
2. I graduated with an M.S. degree in Economic Geology, University of Washington, Seattle, U.S.A., 1975.
3. I have been employed by major mining companies as an exploration geologist since 1970.
4. I personally worked on the M.U.T. Property since the claims were staked in November-December, 1976.
5. I personally logged the core from the Drill Hole, A-77-1.

Dated: 10 March, 1978

1120 Heywood Street
North Vancouver, B.C.
V7L 1H4



V. M. Ramalingaswamy

FILE NO. A-77-1

PROJECT: M.U.T. SALMO

Page 1 of 11

LOCATION: Near Upper Trench near Cabin
COORDINATES: 117°12' ; 49°04'
UTM: _____
ITS: 82F3E ELEV: 4650' (Approx)
INCLINATION: 70° SE AZIMUTH: N130°E
TOTAL DEPTH 512
HORIZ. PROJ. _____ VERT. PROJ. _____

HOLE STARTED: NOV 20, 1977
HOLE COMPLETED: DEC 16, 1977
DRILLED BY: LOGAN DIAMOND DRILLING

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

DEPTH	SECONDARY MINERALIZATION			LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY	
	Type	Mins	Breccia						No.	Length	ppm	ppm
0				Argillite with light colored calcitic bands. 4.5m to 9m. Calcite, Pyrrhotite, pyrite filled fractures perp. to bedding. In places calcite changing to epidote.		black	30°					
5	Veinlet	lim, cal Po, Py	tect lim, cal Po, Py			black	30°					
10						black	30°					

HOLE No. A-77-1

PROJECT M.U.T. SALMO

Page 2 of

INCLINATION: $70^{\circ} S/E$ AZIMUTH: $N130^{\circ} E$ COORDINATES: $117^{\circ} 12'$, $49^{\circ} 04'$ SCALE: 1cm - 1meter LOGGED BY V.M.

DEPTH feet	SECONDARY MINERALIZATION		BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY	
	TYPE	MINS							No	LENGTH		
13M								Silicified limestone - 12.5m to 12.8m Syngenetic pyrite, sericitic cleavages. 14-15m fault zone				
15								12.8 to 24m Argillite - Syngenetic pyrite & pyrrhotite with graphic shear zones.				
	Shear vein		chem. & tectonic					17.3 m. fracture filled with epidote - perp. to bedding, suggesting proximity of skarn or contact metamorphism of argillite.				
20-	Veinlet	Pyrite, epidote										
	Veinlet	pyrite										
25	Vein diss.	pyrite scheelite	tekt			grey	40°	24 to 24.3 Contact met. limestone with epi-quartz-pyrite-veinlets. few grains of blue-white scheelite				
28						black						

HOLE No. A-77-1

PROJECT M.U.T. SALMO

Page 3 of

INCLINATION: $70^{\circ} S$ BEARING: $N130^{\circ} E$ COORDINATES: $117^{\circ} 12'$: $49^{\circ} 04'$ SCALE: 1cm = 1meter LOGGED BY: V.M.E.

DEPTH "	SECONDARY MINERALIZATION		BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY
	Type	Mins							No	Length meters	
28	vein					black		31.5 to 35.5 Interbedded limestone with argillite converted to medium grade Skarn clots of tremolite - epidote - secondary biotite (some garnet?)			
30	Vein diss.	qtz. SPH (+rr) <u>Scheelite</u>	Chem & tectonic			grey	30°		71312	31.1 to 31.17	-0.08%
	diss.	<u>Scheelite</u>	"			light grey					
	diss.	<u>Scheelite</u>	"								
	Vein	<u>Scheelite</u>	"			dark					
		Pyrr. py.				grey					
	"	"									
35	Vein	qtz. Pyrr. py.	tect.			grey	30°	34-35 Band of contact met. argillite (Hornfels) filled with quartz segregations filled with pyrite - 3 stages of deformation. <u>Scheelite</u> related to final stage.			
	Vein	"	"			grey					
	→										
	diss.	<u>Scheelite</u> (tr)	Chem			grey			71311	36.16 to 36.30	-0.08%
	diss.	<u>Scheelite</u> (1/3 m)	"			grey	30°	35-37 Silicified limestone with bands of dark grey skarned 1st. $\frac{1}{3}$ meter <u>Scheelite</u> at 38m.			
40	diss.	<u>Scheelite</u>	Chem			black		38.6 to 39 m Mottled textured Hornfels with clots of trem. & epidote			
43								40.9 to 48.8 m. Highly Hornfelsed hard argillite with quartz - calcite pyrrhotite pyrite veins. trace Scheelite			
								Cross-faults displacing bedding plane cleavage.			

HOLE No. A-77-1

PROJECT MUT. SALMO

Page 4 of 1

INCLINATION: 70°SE AZIMUTH: N130E COORDINATES: $117^{\circ} 12'$, $49^{\circ} 04'$ SCALE: 1 meter - 1 cm LOGGED BY: V.M.R

DEPTH	SECONDARY MINERALIZATION		BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY	
	Type	Mins							No	Length Meters	W _O ₃ %	
43.	Vein	Qtz-pyrrn Py-calc	tect									
45	Vein	Qtz-Sph Cal-pyrrn	"			dark grey to black						
	Vein	Qtz-Pyrrn Cal	"									
	"	"	"									
	"	"	"									
diss.	scheelite pyrrhotite	chem						48.8 to 51.1.				
50	diss.	scheelite pyrrhotite	"			grey, brown green		Medium to high grade skarn. Alternate bands of fine grained garnets (grossular) and diopside, minor epi. & trem. The lighter bands (pure) of limestones appear to have reacted more intensely.	71310	49.61 49 to 49.70	•30	
diss.	scheelite	"				grey, brown green						
						dark grey						
55	Vein	quartz-pyrrhotite	tect					51.1 to 56.9 & thn. to 59.9	71309	51.68 to 51.79	•16	
	diss.	scheelite	chem					Hornfels with silicification, purple secondary biotite and diopside, pyrite epidote in veins. Some mottled texture between 55.4 to 55.9				
	Vein	Qtz-calc	tect									
	"	"	"									
								← appearance of Secondary biotite.				
58	diss.	scheelite	chem						71308	57.4 to 57.77	•22	

HOLE No. A-77-1

PROJECT

INCLINATION: 70° SE AZIMUTH: N130E COORDINATES: $117^{\circ} 12'$ E $49^{\circ} 04' 47''$ N SCALE: 1 meter - 1 cm LOGGED BY: V.M.R.

DEPTH	SECONDARY MINERALIZATION		BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY	
	TYPE	MINS							No	LENGTH		
58	diss.	Scheel	chem.			dark gray						
60	diss.	Scheelite vein fracture	"			grey to dark grey		64.7 to 70.8 Contact metamorphosed hard argillaceous limestone. Segregations of quartz. Some pyrite-quartz-calcite veinlets.				
	diss. & fracture	Scheelite	"					Scheelite observed is a little less than the samples assayed.				
65	diss. & fracture	Scheelite	"									
	vein	giz-Sph cal-pyrr. Scheelite	tectonic			dark gray						
	vein	scheelite	chem.									
	vein	Scheelite diss.	chem.									
	vein	Pyrite										
	vein	Sphalerite Pyrite	tect									
70	"	giz-pyrite tect										
	vein	calcite	tectonic breccia			dark gray						
	vein	giz-cal py.	tectonic			gray						
73						dark gray						

A-77- /

M.U.T SALMO

Page — of —

HOLE No.

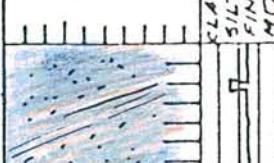
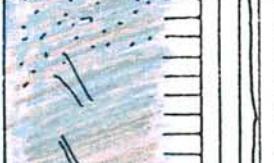
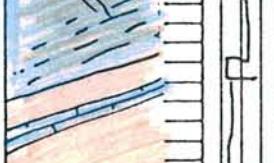
PROJECT

INCLINATION: 70°SE AZIMUTH: 1130°E COORDINATES: $\frac{55^{\circ} 52'}{117^{\circ} 12'}$: $49^{\circ} 047'$ SCALE: 1cm - 1m LOGGED BY: V.M.R.

HOLE NO.

PROJECT

INCLINATION: 70° SE AZIMUTH: N130 E COORDINATES: $117^{\circ} 12'$, $49^{\circ} 04' 7''$ SCALE: 1 metre - 1 cm LOGGED BY: V. M. R.

DEPTH	SECONDARY MINERALIZATION		BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY	
	TYPE	MINS							No	LENGTH	Wt.	Wt.
88	diss. fracture	Scheelite trace scheelite	chem.		25°	grey		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-spat. spi - from veins.	71307	91.88 to 92.04	.15%	
90	diss. & vein	scheelite fayalite calcite Scheelite	chem & teet.		25°	light grey		71306	92.38 to 92.46	.33		
"		Scheelite calcite	chem teet.		25°	grey		94.3 to 97.7 silicified argillite with quartz segregations. pyrite and pyrrhotite along bedding				
"		Sphalerite Py, Scheelite			25°	dark grey		97.7 to 98.6 silicified Contact met. limestone with calcite - secondary biotite, quartz, epidote - veins.	71304	97.8 to 97.98	.08%	
"		Pyrrhotite			25°	grey		102.5 alteration along fracture.	71305	99.1 to 99.37	.08%	
95												
"		Scheelite Sphalerite			25°	grey						
"		diss. & fract.	Pyrite Cpy?		25°	dark grey						
100	diss	Scheelite			25°	grey						
"	diss	Scheelite										
103		Sphalerite Py, Pyrr Scheelite	"		25°							

A-77-1

M.U.T SALMO

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HOLE No

PROJECT

INCLINATION: 70°SE AZIMUTH: N130°E COORDINATES: 117°12' : 49°04' SCALE: 1cm - 1metre LOGGED BY: V.M.R.

A-77-1

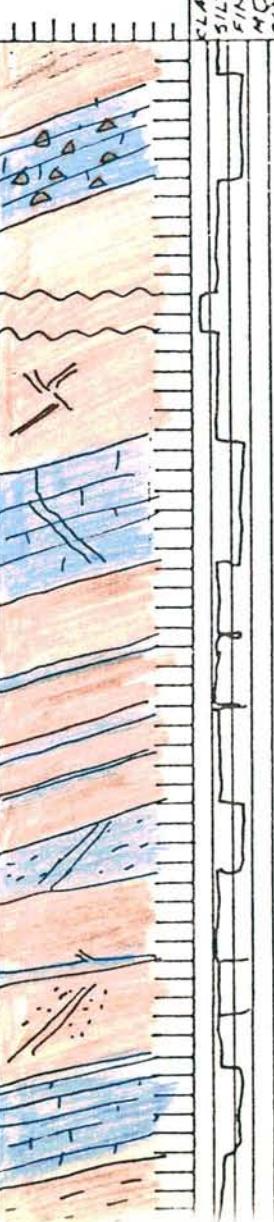
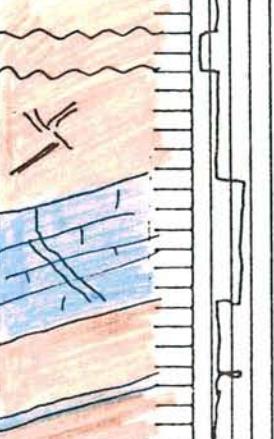
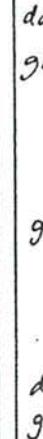
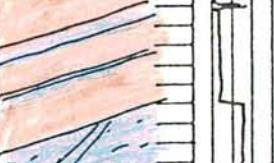
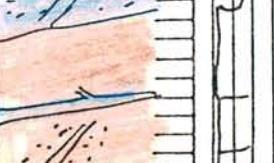
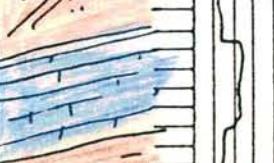
M.U.T. SALMO

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HOLE No.

PROJECT

INCLINATION: $70^{\circ}SE$ AZIMUTH: N130E COORDINATES: $117^{\circ}12'$: $49^{\circ}047'$ SCALE: 1cm - 1 metre LOGGED BY VMR

DEPTH '	SECONDARY MINERALIZATION		BRECCIA TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY	
	TYPE	MINS							No	LENGTH		
117	matrix	Sph. pyrite pyrrhotite	prim.			black grey	20°	118 to 118.5 argillaceous limestone Contact met. gtz, chlorite, phlogopite Sph. from 118.5 to 118.8 Major fault zone 120.5 - 121.2				
120.7	Vein, fracture	pyrr. gtz	tectonic			dark grey						
	diss.	Schreelite	chem.			grey	20°	124 - Cross-cutting vein - pyrite, pyrrhotite, secondary biotite, diopside & garnet - bedding destroyed completely.				
	vein	pyrite, pyrrhotite						126.1 to 126.4 Skarn - trem-diop. (?) garnets				
	diss.	trace schreelite	Chem			dark grey		127 - appearance of K-spar.				
125	vein	Pyrrhotite Pyrite,	teet			grey		128 to 128.7, 129.5 to 130.0 Mottled texture.				
		Py., gtz, kam, gt.	chem.			grey	20°	130.3, 131.4 Hornfels with veinlets.				
	vein	Sphalerite Pyrrhotite Pyrite Schreelite trace	teet chem			dark grey		131.4 Skarn with K-felspar.				
130	vein.	same as above	teet chem			dark grey	20°					
	vein	same as above schreelite	"			dark grey						

A-77-1

M.U.T SALMO

10 11

HOLE No.

PROJECT

INCLINATION: 70° SE AZIMUTH: N130E COORDINATES: $4117^{\circ}12'$: $49^{\circ}047'$ SCALE: 1metre-1cm LOGGED BY: VMR

HOLE No. A-77-1

PROJECT MUT SALMO

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INCLINATION: 70°SE AZIMUTH: N130E COORDINATES: #117°12', 49°04' SCALE: 1metre-1cm LOGGED BY: V.M.

DEPTH '	SECONDARY MINERALIZATION		REOCCHI TYPE	LITHOLOGY	CRYSTAL OR GRAIN SIZE	COLOR	BEDDING	REMARKS	SAMPLING		ASSAY	
	TYPE	MINS							NO	LENGTH	Mo	%
149								149.5 to 156.10				
150								Granite - altered and bleached the major minerals are completely destroyed. In place spotted. Highly silicified. Two stages of alteration.				
155								① Quartz - sericite - pyrite with Molybdenite. Sericite mostly green. at. 150.4, 150.9, 151.2, 151.4, 152.5, 153.2 Molybdenite at 152.3, 153.2.	71301	152.5 (6 cm)	.036%	Mo.
156.1	END OF HOLE							② K-spar & secondary bt. veinlets with alteration envelopes 154.6, 155, 155.6 Qtz-ser-py is later.				

Mineralogical Log
March 10, 1978

LEGEND

- 13 [Hatched] GRANITE: CRETACEOUS NELSON BATHOLITHIC ROCKS - LOST CREEK STOCK
- 13 [Yellow] BLEACHED AND ALTERED GRANITE (DESTRUCTION OF MAFICS)
- 9 [White] ARGILLITES: ORDOVICIAN ACTIVE FORMATION
- 9 [Blue] LIMESTONES: INTERBEDDED WITH ARGILLITES - ACTIVE FORMATION
- [Orange] SKARN: CONTACT METAMORPHISM OF ABOVE & HORNFELS LIMESTONES & ARGILLITES. (SILICIFICATION OF DISTAL PORTIONS & GRADING INTO HIGH GRADE GROS. GARNET - DIOPSIDE - EPIDOTE - K-SPAR AT PROXIMAL PORTIONS OF CONTACT ZONE WITH ABOVE GRANITE; SECONDARY BIOTITE, IN HORNFELS)
- 8 [Hatched] LIMESTONE & PHYLLITES: UPPER CAMBRIAN NELWAY FORMATION

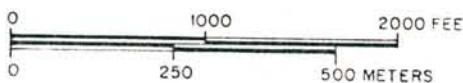
NOTE: CONTOUR ELEVATIONS GIVEN ARE IN FEET

● DIAMOND DRILL HOLE A77-1

○ 2 PLANNED DIAMOND DRILL HOLES (WITH NUMBERS INDICATING SEQUENCE)

[Hatched] PROSPECTIVE AREAS FOR DETAILED EXPLORATION.

- - - CAT ROAD



NOTE: Fyles, J. T. and Hewlett, C. G. (1959)

"Stratigraphy and Structure of Salmo Lead - Zinc Area"
B.C. Department of Mines Bulletin No. 41

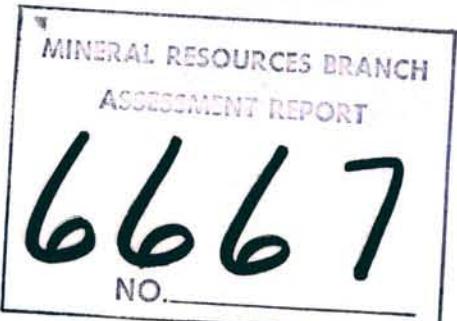
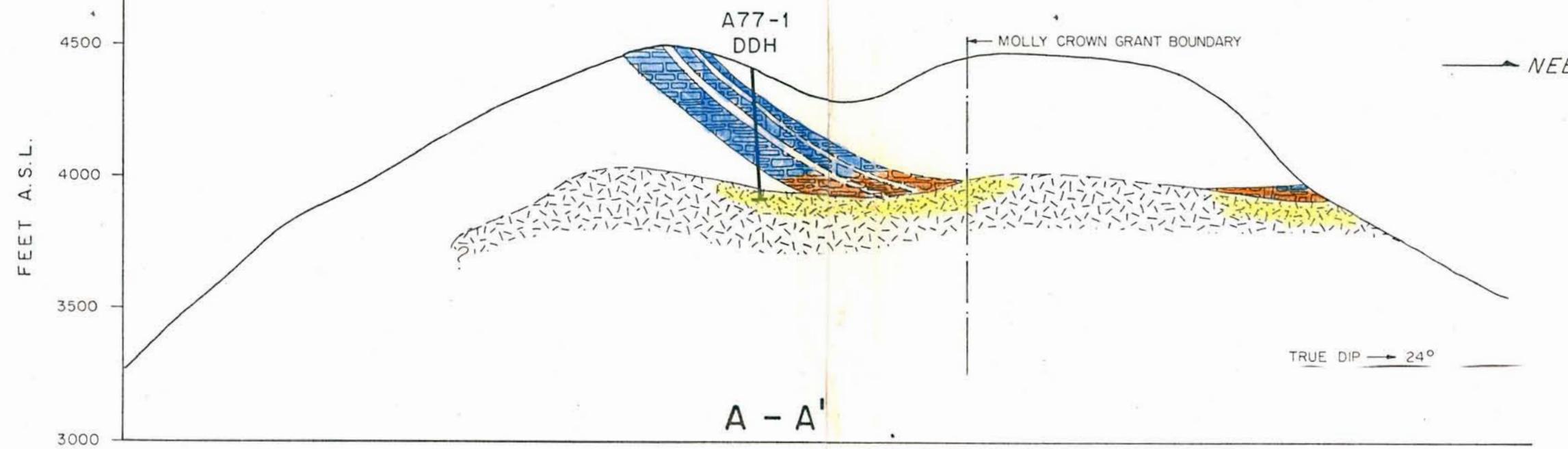
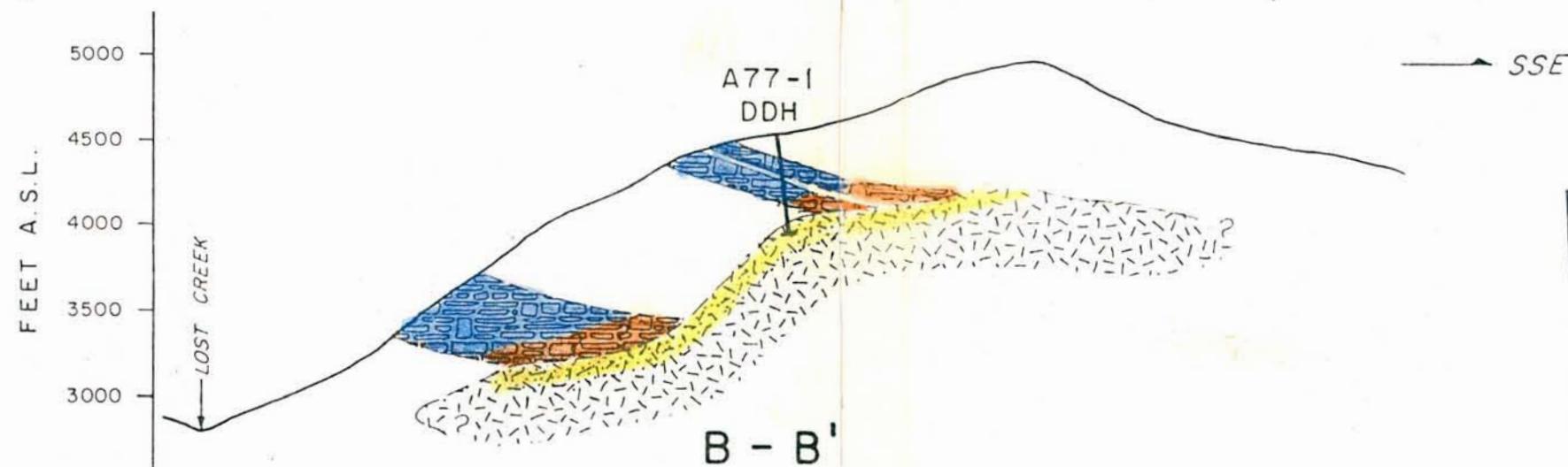


FIGURE 3

M.U.T. GROUP
SALMO B.C.
PLAN OF
GEOLOGY



VERTICAL SCALE OF A-A'
EXAGGERATED 2 TIMES.



HORIZONTAL AND VERTICAL SCALES IDENTICAL ON B-B'

0 1000 2000 FEET
0 250 500 METERS

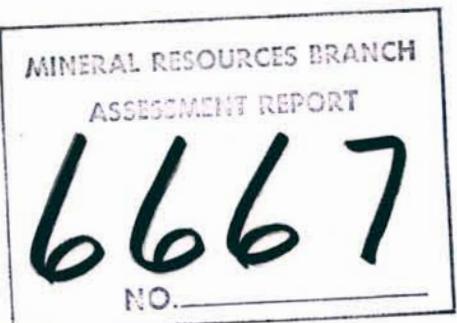


FIGURE 3A

M.U.T. GROUP
SALMO B.C.
SECTIONS

A - A' AND B - B'

LEGEND

— IMPROVEMENT OF EXISTING ROADS

— CONSTRUCTION OF NEW ROADS.

40m x 5m x 8m.
in Meters LOCATION AND DIMENSIONS OF TRENCHES

UNIMPROVED EXISTING ROADS.
ODDH LOCATION OF DIAMOND DRILL HOLE

0 500
Meters

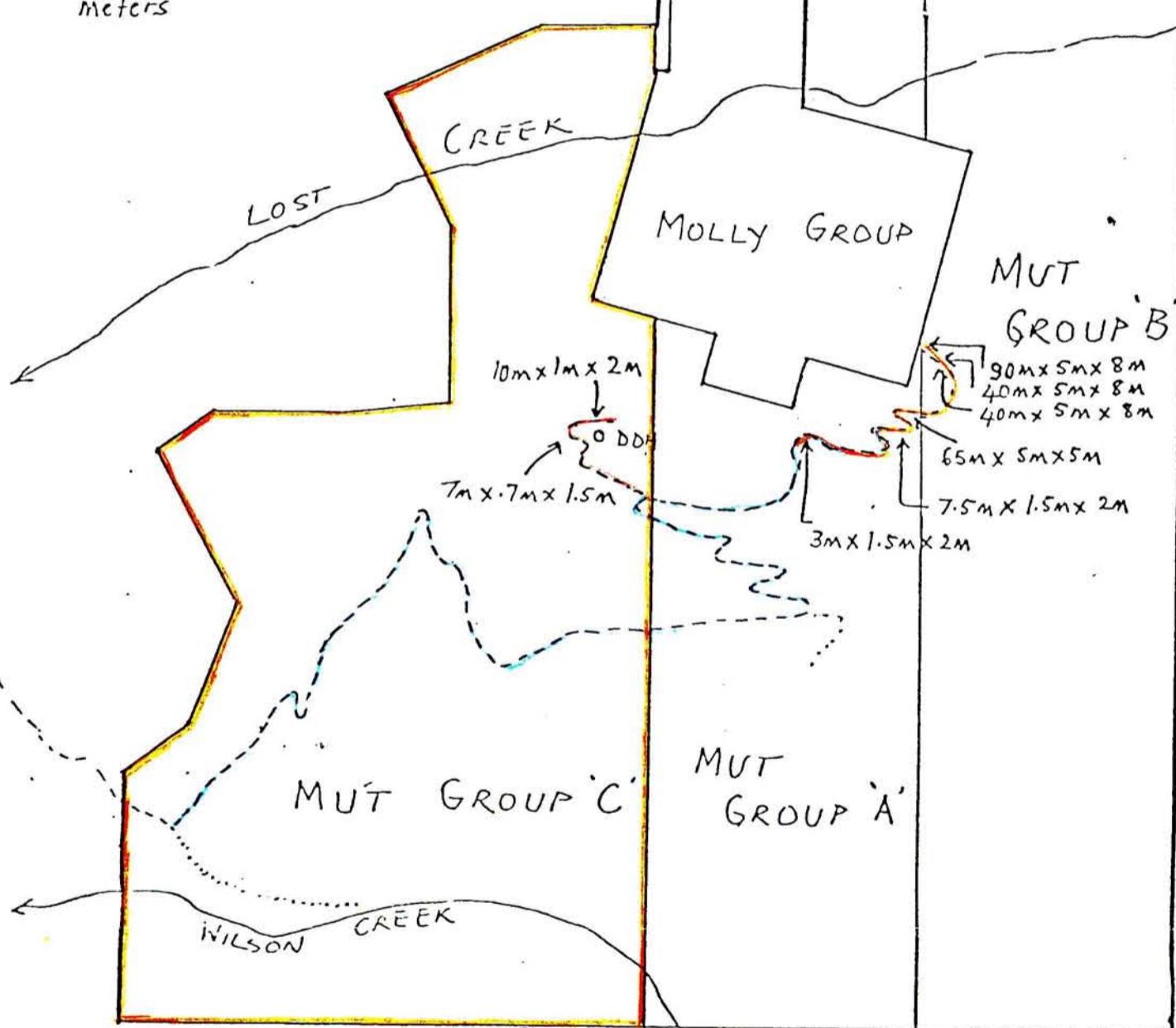


FIGURE 4

PHYSICAL WORK ON THE MUT GROUP OF CLAIMS.

SALMO AREA MAP NO. 82 F/3E

NELSON MINING DIVISION