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REPORT ON DIAMOND DRILLING
on the
GROUSE MOUNTAIN PROPERTY

(Lakeview, Mayflower, Copper Crown, Eureka,
Ruby, Grandview, Cariboo, Lower, Maisie,
Grouse Mountain, Art, Art 2, Nigel,
Tom 1, Tom 2, and Troy Claims)
Omineca Mining Division

NTS 93L/10

54°33'N / 126°45'W

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,665

OWNER: Ramm Ventures Corporation
OPERATOR: Swift Minerals Ltd.
AUTHOR: David St.Clair Dunn, FGAC
April, 1990

**REPORT ON DIAMOND DRILLING
GROUSE MOUNTAIN PROPERTY**

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SUMMARY

The Grouse Mountain Property is located 40 kilometers southeast of Smithers, British Columbia in the Omineca Mining Division. Access is north from the intersection of Highway 16 and Dieleman Road by a 4x4 mine-access road for six kilometers. The property consists of 86 units in 16 contiguous claims. The core of the property is nine crown-granted mineral claims.

The property has seen considerable past work, commencing in 1914. 1150 meters of underground development was carried out from 1915 to 1927, and a further 1130 meters was carried out in 1951. This work, along with 6496 meters of diamond drilling, has outlined a mineralized body containing 360,000 tonnes of 0.88 oz/tonne silver, 0.38% copper and 4.23% zinc in the 'Ruby' Zone. At least five other zones, the 'Rainstorm', 'Lakeview', 'Eureka', 'Schorn' and 'Nigel', exist on the property. These zones are quartz-carbonate-sulphide veins, cross-cutting stratigraphy, trending northeast-southwest, and dipping steeply to the north. The veins are hosted in a series of grey-green and maroon andesite lapilli tuffs with minor carbonate and greywacke horizons. A belemnite was identified, which would date this sequence in the Nilkitkwa or Smithers Formation of the Jurassic Hazelton Group. Bedding dips to the south at a shallow angle and strikes northeast.

The last major program carried out on the property was undertaken by Teck Corp. in 1984. This program included 1896 meters of diamond drilling. A further 1800 meters of diamond drilling was recommended "to test the grade and extent of mineralization in the Rainstorm Zone" (Peto, 1984).

A 1783-meter (5850-foot) diamond drill program was carried out from January 16th to February 14th, 1990 by Swift Minerals Ltd. The bulk of this drilling, 1325.8 meters or 4350 feet, was carried

out on the Rainstorm Zone, generally following the recommendations contained in the Teck 1984 Final Report. One hole of 457.2 meters (1500 feet) in length was drilled to intersect the Ruby Zone at depth. All seven holes drilled encountered discreet fault-controlled sulphide mineralization. Sulphides are massive over narrow widths and consist of pyrite, sphalerite and chalcopyrite with minor tetrahedrite in a quartz-calcite gangue. These stringers and veins range in width from a few centimeters to 1.29 meters, and are found within larger zones of fractured rock. Base and precious metal values of economic interest are confined to the sulphide veins and stringers.

In the areas drilled, veins are too sparse to be amenable to bulk mining methods. One ore-grade intersection was drilled in the Rainstorm Zone (1.29 meters true width of 8.78% zinc, 0.33% copper, 0.36% lead, 57.7 g/tonne silver 0.35 g/tonne gold in GM-90-1). Unfortunately GM-90-2 was drilled from the same setup and bearing at an angle 20 degrees steeper, and, although the structure was intersected 15 meters down dip from the GM-90-1 intersection, there were no significant values in it. GM-90-7 intersected the Ruby Zone at depth. Low values were returned over one meter: 0.09% zinc, 0.7% copper, 0.015% lead, 12.2 grams/tonne silver, and 0.032 grams/tonne gold.

CONCLUSIONS

The sulphide stringers intersected in the Rainstorm Zone contain high base metal values over narrow widths. They do not coalesce at depth as postulated. There is no evidence of stratiform volcanogenic massive sulphide mineralization. At present metal prices, this zone is not of economic interest.

The intersection of the Ruby Zone at depth, showing similar mineralization and tenor as in the underground workings and

shallower drill holes, adds an inferred depth continuity to the zone of 250 meters.

RECOMMENDATIONS

No further drilling is recommended on the Rainstorm Zone at this time.

Further drilling on the Ruby Zone should be preceded by a thorough examination and compilation of the underground workings, surface showings and past drill holes. At present, after the expenditure of considerable funds and effort, no ore body has been developed in this zone. Before any future major program is undertaken on the Ruby Zone, the potential to develop an ore body should be well established through the recommended compilation.

An electromagnetic survey should be carried out on the entire property to identify targets outside of the area of the crown grants. Large areas in the western part of the property are covered by overburden and have not been tested.

INTRODUCTION

Swift Minerals carried out a 1783-meter (5850-foot) diamond drill program on the Grouse Mountain property from January 16 to February 14, 1990. The property is owned by Ramm Venture Corporation, with whom Swift has an option agreement. The objectives of the drill program were to further test the Rainstorm Zone as recommended by Peto (1984) and to test the Ruby Zone at depth.

Seven NQ-core holes were drilled - six in the Rainstorm Zone and one in the Ruby Zone. J.T.Thomas of Smithers was the drill contractor. Six holes were collared on the Cariboo claim (Lot 6476) and the seventh was collared on the Mayflower claim (Lot 6471) (refer to Map 1).

Sulphide-bearing intersections were split and shipped to Min-En Labs in Vancouver where they were assayed for gold, silver, copper, lead and zinc (refer to Appendix B).

The core is stored on J. Nutter's property in Quick, British Columbia, (R.R.#1, Telkwa V0J 2X0, phone 846-5690). This is also the storage location of the core from Teck's 1984 program.

LOCATION AND ACCESS

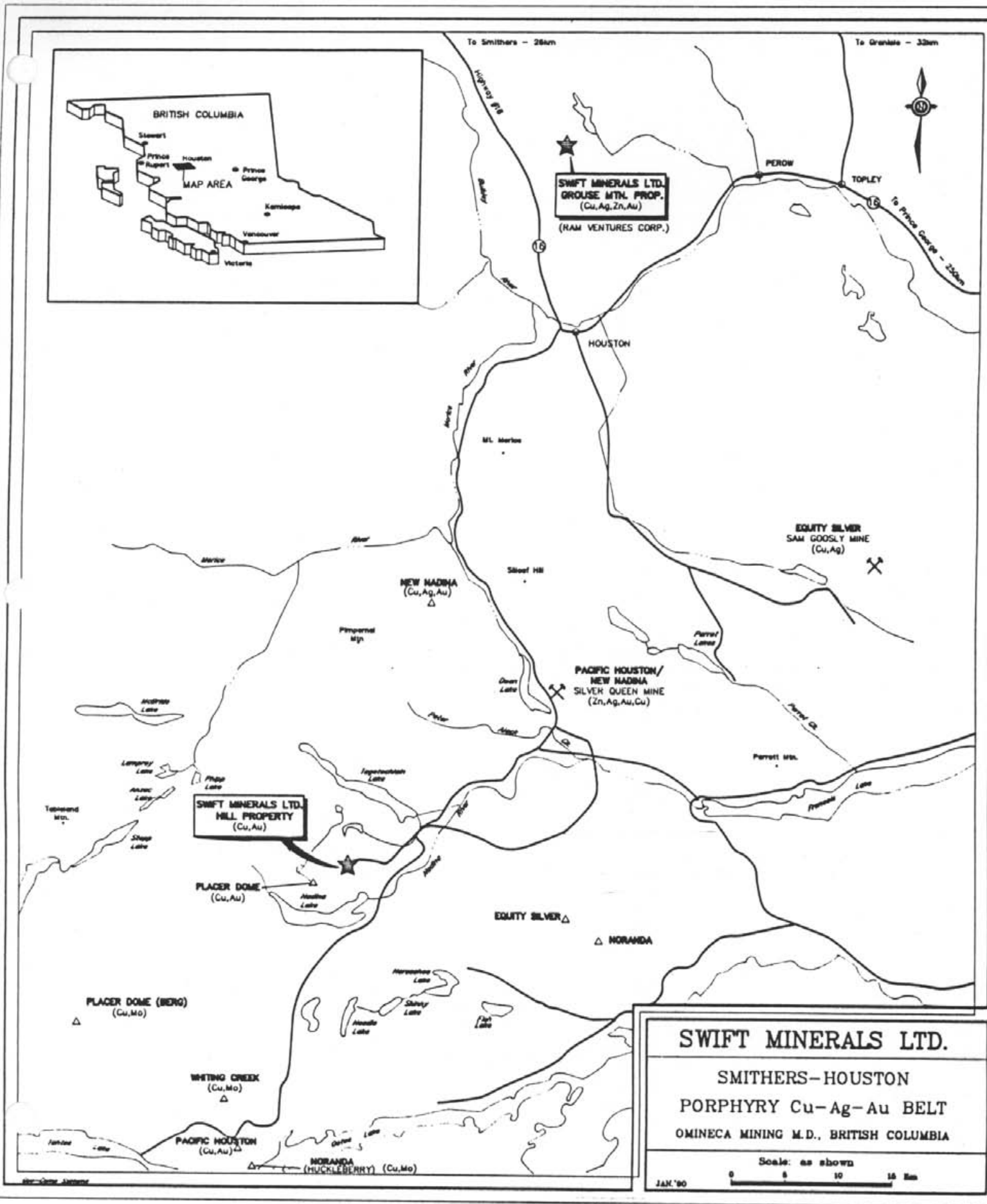
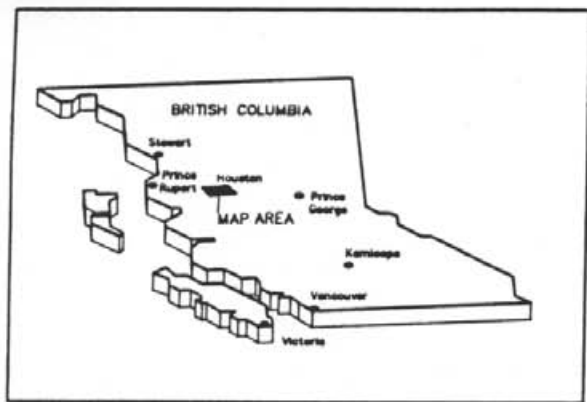
The Grouse Mountain property is situated 40 kilometers southeast of Smithers in west-central British Columbia (Figure 1).

The claims comprising the property are located on the top and west flank of Grouse Mountain, immediately east of Highway 16 (Figure 2). The centre of the property is at 54° 33' north latitude and 125° 45' west longitude on NTS mapsheet 93L/10. This location is eight kilometers from the Canadian National rail line, five kilometers from a major power line, and three and one-half kilometers from Highway 16 which is road access to Prince Rupert.

Access to the property is gained by a 7-kilometer four-wheel-drive mine access road which begins 380 meters north on Dielman Road from its intersection with Highway 16. Dielman Road is 15 kilometers north-northwest of Houston on Highway 16, or 21.3 kilometers southeast of Smithers on Highway 16. The mine access road terminates in a network of drill roads on the central part of the property.

PHYSIOGRAPHY AND CLIMATE

The Grouse Mountain property is located on Grouse Mountain, a locally prominent mountain rising to an elevation of 1619 meters. The western part of the property extends into the Bulkley River Valley, with elevations down to 670 meters. The top of Grouse Mountain, where the bulk of the past work has been performed, is relatively flat with three lakes, each about 500 by 250 meters, on it. Glacial action has removed much of the overburden and outcrop is abundant. The western flank of the mountain is steep with approximately thirty percent inaccessible due to cliffs. Areas not forming cliffs, although steep, are generally covered with overburden. Treeline extends to 1450 meters, with lower elevations covered by spruce and pine and minor stands of poplar. The climate is northern interior with long cold winters and hot dry summers. Snow accumulation reaches three meters on higher elevations.



SWIFT MINERALS LTD.

SMITHERS-HOUSTON
 PORPHYRY Cu-Ag-Au BELT
 OMINECA MINING M.D., BRITISH COLUMBIA

Scale: as shown
 0 5 10 15 Km

JAN '90

CLAIM STATUS

The Grouse Mountain property consists of nine crown-granted mineral claims and seven modified grid mineral claims in the Omineca Mining Division (Figure 2). Details are as follows:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record Number</u>	<u>Expiry Date</u>
Lakeview		Lot 6284	n/a
Mayflower		Lot 6471	n/a
Copper Crown		Lot 6472	n/a
Eureka		Lot 6473	n/a
Ruby		Lot 6474	n/a
Grandview		Lot 6475	n/a
Cariboo		Lot 6476	n/a
Lower		Lot 6477	n/a
Maisie		Lot 7254	n/a
Grouse Mountain	20	2561	07 Mar 95
Art	18	4522	08 Jan 95
Art 2	4	4523	08 Jan 95
Nigel 1	12	5071	31 Mar 95
Tom 1	8	5722	25 Aug 95
Tom 2	4	5723	25 Aug 95
Troy	20	11325	16 Dec 90

HISTORY

Copper-zinc-silver showings were discovered on Grouse Mountain in 1914. Considerable exploration work was carried out between 1916 and 1929, including 1200 meters of underground development principally on the Ruby and Copper Crown Zones (Map 1). Cassiar Crown Copper Company carried out this work.

Work resumed in 1951. A 4600-meter surface and underground diamond drilling program and 1130 meters of underground work were performed by Copper Ridge Silver Mines Ltd. Prospecting, geological mapping, geophysical surveys and bulldozer trenching were carried out in the

areas of known mineralization between 1964 and 1977 by several firms.

The crown-granted mineral claims were acquired by Ramm Ventures Corporation in 1979. Geophysical (VLF-EM) and geological surveys were conducted in 1980. 1282.1 meters of diamond drilling in fourteen holes was conducted in 1981.

In 1984, Teck Corp. optioned the property from Ramm and carried out further geophysical surveys and 1896 meters of diamond drilling in 19 holes. Two of these holes were drilled in the Rainstorm Zone. These holes encountered massive sulphide stringers with values up to 6.13% zinc over 1.2 meters. Further work was recommended on this zone (Peto, 1984).

REGIONAL GEOLOGY

The Grouse Mountain area in west-central British Columbia is part of the Intermontane tectonic belt. Lower and Middle Jurassic Hazelton Group calc-alkaline volcanics and sedimentary rocks of the Stikine terrane are the oldest rocks exposed in this area. These rocks are intruded by coeval granitic stocks of the Topley intrusions and by late Cretaceous and early Tertiary granitic plutons.

There are a number of mineral deposit types in the region. The bulk of production has come from porphyry copper and/or molybdenum deposits associated with late Cretaceous and early Tertiary granitic plutons. Producing deposits are Endako, Granisle and Bell Copper. Known porphyry deposits not in production include Glacier Gulch, Mineral Hill, Huckleberry, Ox Lake, Poplar and Berg. Peripheral base and precious metal vein deposits are commonly associated with the porphyry systems. Examples of this type of deposit are Virginia Silver and Duthie Mines. The Grouse Mountain

deposit appears to be the latter type of deposit, associated with the Mineral Hill porphyry deposit four kilometers to the south.

Other deposits in the area are structurally controlled, massive sulphides associated with plutons such as New Nadinia and deposits with volcanogenic massive sulphide affinities, such as Equity Silver, Topley Richfield, Red, and Fireweed properties.

PROPERTY GEOLOGY

Grouse Mountain is underlain by Lower Jurassic volcanic and sedimentary rocks of the Telkwa, Nilkitkwa and Smithers Formations of the Hazelton Group. These rocks strike east-northeast and dip gently to the south. Belemnites of Lower Jurassic age were observed in drill core and ammonites of similar age have been reported by past workers. These layered rocks have been cut by a northeast-trending quartz monzonite dyke of Late Cretaceous age and a northwest-trending Tertiary dyke. The Cretaceous quartz monzonite dyke is an outlier of a quartz monzonite stock which is the source of the Mineral Hill deposit four kilometers to the south of the Grouse Mountain showings. The Tertiary dyke is 100 to 200 meters wide and consists of two phases - a younger, finer-grained, dark grey feldspar porphyry cutting a coarse-grained, dark grey feldspar porphyry. Phenocrysts in the latter phase are up to four centimeters. This dyke is unmineralized and does not appear to have affected the mineralization.

Mineralization consists of sphalerite, chalcopyrite, and minor tetrahedrite in cross-cutting veins and fissure fillings. Past work shows an overall zinc-to-copper ratio of 8 or 10 to 1 (Carter, 1990).

Ruby - Copper Crown Zones

Most past work was directed towards the Ruby Zone and its probable eastern extension, the Copper Crown Zone. These zones have been developed by two underground levels and considerable drilling. A mineral reserve of 323,500 tons grading 0.88 ounces/ton silver, 0.31% copper and 4.23% zinc has been developed (Borovic, 1984). This mineralization is contained in a structure averaging 4.5 meters in width over a strike length of 230 meters and a down-dip interval of 53 meters.

Rainstorm Zone

The Rainstorm Zone has been traced on surface over a strike length of 500 meters. This zone consists of parallel 0.10- to 1.0-meter sulphide stringers and veins containing sphalerite and chalcopyrite over a total width up to 23.0 meters. Two drill holes drilled 300 meters apart in 1984 intersected grades of 2.27% to 6.13% zinc over 1.2- to 3.3-meter lengths. These intersections are part of lower grade mineralized sections of 12 to 22.5 meters (Peto, 1984).

1990 DRILL PROGRAM

The 1990 drill program consisted of 1783 meters (5850 feet) of NQ-core diamond drilling in seven holes. Six of the holes (1325.8 meters or 4350 feet) were drilled to test the Rainstorm Zone. Four of these holes, CM-90-1, -2, -5 and -6, also intersected the Creek Zone at depth (Maps 1 to 4).

All six holes drilled to intersect the Rainstorm Zone encountered sulphide stringers. These stringers dip 50 to 60 degrees to the

north. They were intersected throughout the holes drilled with anywhere from 10 to 40 meters of unmineralized rock separating them.

The best sulphide intersection was in DDH GM-90-1, where 1.5 meters (true width of 1.29 meters) returned 8.77% zinc, 0.33% copper and 54.7 grams/tonne silver. This hole was drilled at a bearing of 160 degrees and a dip of -50 degrees. DDH GM-90-2, drilled from the same set-up at the same bearing and a -70 degree dip, intersected the structure that contained the good intersection in GM-90-1, 15 meters down dip. This second intersection contained negligible values (0.01% zinc, 0.002% copper, 0.02 grams/tonne silver over one meter). This would indicate that the mineralization either rakes at a shallow angle or occurs in discreet pods.

Fifteen other intersections graded greater than one percent zinc over narrow widths but although the structures could generally be traced from one hole to the next, significant mineralization could not.

DDH GM-90-7 was drilled to intersect the Ruby Zone at depth. The zone was intersected from 289.5 meters to 302.0 meters. This intersection represents a true width of 9.6 meters and is 250 meters down dip from the deepest level of the underground workings. Values were low over the whole intersection (0.04% zinc, 0.2% copper and 4.3 grams/tonne silver). No other significant values were returned in this hole.

STATEMENT OF COSTS

Analysis	\$ 5,341.50
Drilling	94,665.00
Freight & Shipping	236.30
Equipment Rental	3,346.16
Equipment & Supplies	689.35
Transportation	3,484.88
Salaries & Consulting Services	<u>69,842.11</u>

\$ 177,605.30



David Saint Clair Dunn, FGAC


April 1990

STATEMENT OF QUALIFICATIONS

I, David Saint Clair Dunn, of the Municipality of West Vancouver, in the Province of British Columbia DO HEREBY CERTIFY:

1. THAT I am a geologist residing at 2348 Palmerston Avenue, West Vancouver, British Columbia V7V 2W1;
2. THAT I am a Fellow of the Geological Association of Canada;
3. THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology (1980);
4. THAT I have worked in the mineral exploration industry since 1969;
5. THAT I do not hold any interest, direct or indirect, in Swift Minerals Ltd., Ramm Venture Corporation, or in the Grouse Mountain property.

DATED at Vancouver, British Columbia this 30th day of April, 1990.



David St. Clair Dunn, FGAC

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APPENDIX "A"

DRILL LOGS

DRILL HOLE RECORD

Property Grouse Mtn. District _____ Hole No. GM-70-1 Length Pg 484
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Brg. _____ Logged by D. Dunn
 Objective _____ % Recov. 92 Date 22/1/90

Claim	T Br.	Collar Dip	Elev.	Length

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS					
			RUN	SHORT				Au	Ag	Cu	Pb	Zn	Fe
172.7-175.3	G. A. L. T.				172.5			94	94	98	81	8	
175.3-180.6	Highly fractured and bleached zone. Talc and calcite on fractures. Py \approx 1%. Minor cpy. Most common fracture direction 40° to C.A. Blebs of cpy to 1 cm.				-177.9	25956	0.4	.06	0.2	.002	.01	.02	
					163.2								
					-163.5	25957	0.3	.04	6.2	.054	.01	.62	
					175.3								
					-177.3	25958	2.0	.03	9.5	.247	.04	1.06	
					177.3								
180.5-181.6	Qtz Vein. 10% py 1% cpy 45° to C.A.				-179.0	25959	2.0	.03	6.0	.014	.04	.50	
					179.0								
181.6-181.9	Highly fractured zone 1% py. minor cpy				-180.8	25960	1.8	.01	1.0	.002	.01	.07	
					180.8								
181.9-184.1	Grey Green Andesite Lapilli Tuff				-181.4	25961	0.6	.07	29.5	.930	.02	.52	
					181.4								
184.1-184.6	Maroon Andesite				-182.0	25962	0.7	.06	0.4	.006	.01	.18	
					203.9								
184.6-197.7	G. A. L. T.				-204.3	25963	0.4	.07	1.9	.064	.01	2.01	
197.8-204	M. A. L. T.												
204-204.4	Fracture zone 2% py												
204.4-205.6	G. A. L. T.												
205.6-212.1	M. A. L. T.												

E. O. H.

DRILL HOLE RECORD

Property Grouse District _____ Hole No. SM-9j-2 Length 122 of 8

Commenced _____ Location _____ Tests at _____ Hor. Comp. _____

Completed _____ Core Size _____ Cor. Dip _____ Vert. Comp. _____

LAT. _____ DEP. _____ ELEV. _____ True Str. _____ Logged by D. Dunn

Objective _____ % Recov. 95 Date 7/1/90

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS					
			RUN	SHORT				Al	Fe	Ca	Mg	% Recovery	
69.3 - 115.2	Grey-Green And. Lepidolite Qtz-Calcite Stringers \perp to CA \perp width				61.1			3/4	3/4	0.6	0.7	0.7	
	Depth \perp to CA width.				-62.2	25984	1.1	.01	0.2	.002	.01	.01	
	72.1 10° 2.0 cm				90.8								
	71.2 10° 1.0 cm				-71.2	25965	0.4	.05	0.5	.002	.01	.02	
	74.7 20° 1.0 cm												
	76.2 0° 2.0 cm												
	88.6 0° 2.5 cm												
	88.4 15° 1.5 cm												
	102.5 20° 1.0 cm												
	Sample Description												
	25764 - Zone of Qtz (7-10 stringers 70% of rock)												
	20965 - Pyrite stringers not hosted breccia at 45° to CA.												
	Representative Bedding												
	D \perp D \perp D \perp												
	14.5 38°	57.5 48°	88.0 65°										
	35 50°	77.0 50°	99.5 50°										

DRILL HOLE RECORD

Property Gronze District _____ Hole No. GM-90-2 Length 8
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Str. _____ Logged by V. P. M. G.
 Objective _____ % Recov. 97 Date 24/1/90

Chim	T. Str.	Cellar Dip	Str.	Length

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS						
			RUN	SHORT				As	As	Ca	Pb	Zn	% Recovery	
232-232.4	Fault in G.G.A. L.T. Talc on fracture surfaces Fractures at 50° and 20° to CA Sample 25986				232.0 -232.4	25986	0.4	3/4	3/4	?	?	?		
					236.7 -237.3	25987	0.6	.01	0.1	.001	.01	.01		
232.4-236.7	Monoon And Lepilli Tuff Bedding at 45° to CA				238.0 -238.3	25988	0.3	.02	0.2	.004	.01	.01		
236.7-237.3	Fault Fault in M.A. L.T. Up to 2mm talc on Fractures Fractures at 30° + 45° to CA. Sample 25987													
237.3-238.0	Monoon And Lepilli Tuff Bedding at 55° to CA													
238.0-238.3	Fault Couge. 20° to CA Sample 25988													
238.3-239.0	Monoon And Lepilli Tuff Bedding at 55° to CA													
239.0-243.8	G.G.A. L.T. Bedding at 45° to CA													

E. O. H.

DRILL HOLE RECORD

Property Grouse District _____ Hole No. GM-90-3 Length 145-06
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Carr. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Brg. _____ Logged by D. Mann
 Objective _____ % Recov. _____ Date 26/1/90

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS							
			RUN	SHORT				As	Ag	Cu	Pb	Zn	% Recovery		
166.2-167.8	Greywacke w/ calcite Bds Bedding st 70° to CH.				166.2										
					167.8	25199	1.5	.01	2.2	.004	.01	.01			
167.7-176.5	M.A.L.T. Bedding st 80° to CH				176.8										
					-177.4	251000	0.6	.02	0.7	.008	.01	.04			
176.5-176.8	L.G.A.L.T.				177.6										
					-180.7	25655	1.1	.01	1.8	.001	.01	.02			
176.8-177.4	Vein, Qtz - Calcite w/ 1.8 py minor sp 50° to CH.				180.7										
					181.4	25652	0.7	.01	2.6	.004	.01	.44			
177.4-177.6	G.G.A.L.T. Bedding 20° to CH				-182.9	25653	1.5	.01	1.9	.001	.02	1.23			
177.6-180.7	Hematite stained zone of G.G.A.L.T. Minor py. Many 0.1cm - 0.2cm No stringers														
180.7-181.4	G.G.A.L.T. w/ minor py stringers at 45° to CH														
181.4-182.9	Hematite stained G.G.A.L.T. Minor py 10% of py overall														

E. O. H.

DRILL HOLE RECORD

Property <u>Grubse</u>		District _____	Hole No. _____	Length <u>124 m</u>
Commenced _____	Location _____		Tests at _____	Hor. Comp. _____
Completed _____	Core Size _____		Corr. Dip _____	Vert. Comp. _____
LAT. _____	DEP. _____	ELEV. _____	True Str. _____	Logged by <u>D. Mann</u>
Objective _____			% Recov. <u>100% to 1+2</u>	Date <u>28/6/90</u>
			<u>122 to F04 9.2</u>	

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS					
			RUN	SHORT				Au	Ag	Cu	Pb	Zn	% Recovery
151.3-152.3	Grey wacke Bedding at 10° to CA.				152.8			3/4	3/4	2	2	2	
152.3-153.8	M.A.L.T.				158.0	25674	0.2	.02	4.7	.016	.04	.12	
					154.0								
153.8-155.4	Grey wacke Bedding at 20° to CA.				159.2	25675	0.2	.02	6.0	.001	.01	.42	
					157.6								
155.4-167.0	G.C.A.L.T. Bedding at 60° to CA Sulphide stringer band (52 py)				169.6	25676	2.0	.02	3.2	.001	.01	.18	
	157.8-158.0 at 20° to CA				169.6								
	Blanchard zone contacted on				171.2	25677	1.6	.02	4.0	.004	.01	.60	
	1.0 cm glz - calcite stringer				171.2								
	at 65° to CA.				173.2	25678	2.0	.02	2.3	.001	.02	.06	
					174.1								
					174.6	25679	0.5	.02	22.0	.467	.02	1.51	
167.0-169.6	M.A.L.T.				174.6								
	170.0				176.6	25680	2.0	.03	3.1	.030	.01	.54	
152.6-152.8	G.C.A.L.T. Highly fractured				176.6								
	Miss sulphides contacted on				177.8	25681	1.2	.02	3.9	.006	.01	.37	
	5cm sp 60% calcite glz calcite stringer												
	at 170.4 at 25° to CA												
172.0													
181.3-181.3	M.A.L.T. Bedding at 60° to CA												
181.3-182.9	G.C.A.L.T. Bedding at 20° to CA												

E O H.

DRILL HOLE RECORD

Property Chuse District _____ Hole No. CM-9)-G Length P. 3 of 89
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Cor. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Brg. _____ Logged by P. Durb
 Objective _____ % Recov. 48% Date 31/1/90

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS						
			RUN	SHORT				Ag	As	Co	Pb	Zn	% Recovery	
129.8-130.9	M.A.L.T.				130.9			94	94	76	72	72		
130.9-131.7	Qtz Vein at 50° to CA				131.7 132.2	25690	0.8	.01	0.4	.001	.01	.01		
131.7-132.2	M.A.L.T.				-132.0 149.0	25691	0.8	.01	0.2	.001	.01	.01		
132.2-133.0	Qtz Vein at 45° to CA				-150.1 152.5	25692	1.1	.02	3.8	.054	.07	.98		
133.0-147.4	M.A.L.T. Bedding at 45° to CA				160.0	25693	2.1	.01	2.7	.006	.01	.82		
147.4-149.0	C.G.A.L.T.													
149.0-150.4	Qtz stringers + Sulphides at 55° to CA 22 pt matrix sp.													
150.4-157.9	G.C.A.L.T. Bedding at 45° to CA													
157.9-160.0	Qtz stringers + Sulphides at 60° to CA 17 sp.													
160.0-164.6	M.A.L.T. Bedding at 45° to CA													

Chim
T Br.
Collar Dip
Elev.
Length

DRILL HOLE RECORD

Property Grouse District _____ Hole No. GM-90-6 Length Pg 4 of 89
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Cor. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Str. _____ Logged by H. Dunn
 Objective _____ % Recov. 100 Date 3/1/90

METERS From to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS								
			RUN	SHORT				Au	Ag	Cu	Pb	Zn	% Recovery			
164.6-165.5	G.C.A.L.T.				165.5											
165.5-167.6	Qtz stringer zone w/ sulphides 2% py overall stringer at 40 to 14				-166.6	25694	1.1	.01	2.3	.008	.01	.54				
					166.6											
167.6-175.2	M.A.L.T. Bedding at 45° to C.A. 175.6 5cm calcite stringer at 30° to C.A.				-167.7	25695	1.1	.02	1.2	.006	.01	.08				
					181.3											
					181.5	25696	0.2	.01	1.9	.001	.01	.02				
175.2-176.6	G.C.A.L.T. Bedding at 50° to C.A.															
176.6-179.8	M.A.L.T. Bedding at 45° to C.A.															
179.8-181.3	G.C.A.L.T.															
181.3-181.5	Qtz-Calcite-Chlorite-Epidote stringer at 45° to C.A.															
181.5-190.3	M.A.L.T. Bedding at 45° to C.A.															
190.3-1920	G.C.A.L.T.															

Claim
T Br.
Collar Dip
Elev.
Length

DRILL HOLE RECORD

Property Grouse District _____ Hole No. 617-90-6 Length 195 of 289
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Str. _____ Logged by D. Dugg
 Objective _____ % Recov. 100% Date 2/2/90

Claim	T Str.	Collar Dip	Elev.	Length

METERS From to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS						
			RUN	SHORT				Ag	Au	Cu	Pb	Zn	% Recovery	
192.0-192.3	Qtz Sulphide vein 10 ² py min. asp vein at 45° to CH				192.0 -192.3	25698	0.3	.51	5.9	.006	.02	.04		
192.3-196.0	G.G.A.L.T. Minor disseminated py Minor silicification				192.5 194.5 196.0	25699	2.2	.02	2.6	.016	.01	.56		
196.0-196.3	Qtz Sulphide vein 50 ² Qtz, 10 ² py minor sp vein at 45° to CH				-196.3	25701	0.3	.04	21.9	.355	.14	13.38		
196.3-219.4	G.G.A.L.T. Moderate Propylitic Alt. 10 ² py Minor silicification, minor clay Bedding at 40° to CH 1cm Sulphate stringers at 45° to CH at 217.0 and 217.9. py in whole section is diss in cubes up to 3mm and in clots replacing matrix clasts 11.2 to 1cm in diameter				197.3 -201.0 200.0 -202.0 202.0 204.0 -206.0 206.0 208.0 208.0	25702 25703 25704 25705 25706 25707	2.0 1.7 2.0 2.0 2.0 2.0	.02 .01 .02 .02 .03 .03	1.7 5.6 7.4 6.3 2.1 4.8	.006 .024 .078 .006 .030 .072	.01 .01 .02 .01 .01	.23 .98 .61 .17 .33 .64		
					210.0	25708	2.0	.02	2.0	.042	.01	.38		

DRILL HOLE RECORD

Property Grouse District _____ Hole No. GM-92-6 Length Pg 80+9
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Cor. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Brg. _____ Logged by D. Dunn
 Objective _____ % Recov. 95% Date 2/2/96

Clean	T Brg.	Collar Dip	Elev.	Length
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METERS From to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS							
			RUN	SHORT				Ag	Al	Ca	Pb	Zn	% Recovery		
303.9-305.2	M.A. L.T.				345.5										
305.2-309.4	G.G.A.L.T.				-341.1	25721	06	02	6.3	.137	.01	7.77			
309.4-337.6	M.A.L.T. Bedding at 55° to CA.														
337.6-344.4	G.G.A.L.T. O ₂ staining at 341.0 at 30° to CA.														
344.4-345.2	M.A.L.T.														
345.2-351.7	G.G.A.L.T. Minor O ₂ staining to CA.														
351.7-353.1	Minor Bedding at 77° to CA														
353.1-354.1	M.A.L.T. Small Fault at 360.0-360.2 at 25° to CA. Minor gouge No sulphides														

EOH

DRILL HOLE RECORD

Property _____ District _____ Hole No. 30F12
 Commenced _____ Location _____ Tests at _____ Length _____
 Completed _____ Core Size _____ Cor. Dip _____ Hor. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Brg. _____ Vert. Comp. _____
 Objective _____ % Recov. _____ Logged by _____ Date _____

Claim	T Brg.	Collar Dip	Elev.	Length

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS									
			RUN	SHORT				Ag	As	Ca	Pb	Zn	% Recovery				
132.3 - 156.7	G.G.A.L.T. AS BEFORE. - LARGE CARB STRINGER ZONES. LIGHT GREY OFTEN >50% CARB. STRINGERS MAINLY // OR SUB // TO BEDDING ≈ 65° @ 140m. POSS. RHYO/DACITE FLOW. - PROXIMAL TO LARGE ATZ/CARB. VEINS. - BLEBBY Py/TR Cpy TO 3%. (#'s 25769-67																
132.3 - 132.8	CARB STR ZONE //																
133.6 - 134.5	" w/ EPIDOTE					132.3 - 25756	0.5	.003	2.0	.007	.005	.011					
135.6 - 141.2	" " GRANULATED @ UPPER. (POSS SHEAR VERY FINE BANDS (BEDS?) Py/HRCpy POSS Zns. ≈ 2% AVG.					132.6 - 25756 134.5 756	0.9	.001	1.9	.005	.002	.008					
						135.5 - 25757 136.2	0.7	.002	2.0	.011	.002	.005					
						136.3 - 758 136.9	0.7	.002	1.8	.018	.004	.010					
						137.8 - 759 138.5	0.9	.001	2.4	.006	.004	.004					
138.5 - 139	ATZ/CARB VEIN TR SULF. (25761). 0.5m VNET SP/Kpy @ CONTACT					137.8 - 760 138.5	0.7	.001	2.2	.007	.006	.010					
						138.5 - 761 139	0.5	.001	2.6	.003	.008	.009					

BEDS

DRILL HOLE RECORD

Property _____ District _____ Hole No. 40F.12
 Commenced _____ Location _____ Tests at _____ Length _____
 Completed _____ Core Size _____ Hor. Comp. _____
 LAT. _____ DEP. _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Objective _____ ELEV. _____ True Brg. _____ Logged by _____
 % Recov. _____ Date _____

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS					% Recovery
			RUN	SHORT				Au	Ag	Cu	Pb	Zn	
-141.2	CARB CONT.				140.1	25762	1.1	.057	2.8	.008	.008	.036	
					140.1 - 141.2	25763	1.1	.002	2.8	.003	.008	.002	
141.2 - 142.3	GALT BEDS 140m 55°				141.2 - 142.3	25764	1.1	.001	1.2	.002	.002	.009	
142.3 - 145	CARB STRINGS.				142.3 - 143.2	25765	0.9	.003	2.6	.002	.004	.001	
					144.1 - 144	766	0.9	.002	2.5	.002	.004	.002	
145 - 147	GRN A.G.T. COARSE, POORLY BEDDED				145 - 146	25767	1	.006	2.1	.003	.002	.009	
	3-5% Py / Kpy BLERS / STRINGS				146 - 147	768	1	.001	1.6	.028	.002	.011	
	E DISS TR SP: 145.6 - 2 cm CARB w cpy / SP												
147 - 152.6	CARB / SED // TO BED.												
152.6 - 156.7	GRN A.G.T.												

% Claim
 % Brg.
 Collar Dip
 Elev.
 Length

DRILL HOLE RECORD

Property	District	Hole No.	Length
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
LAT.	DEP.	ELEV.	True Brg.
Objective		% Recov.	Logged by
			Date

7.0E12

Clean	T Brg.	Collar Dip	Elev.	Length
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METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS							
			RUN	SHORT				Ag	Al	Ca	Pb	Zn	% Recovery		
242 -	G.G.A.L.T AS ABOVE 203-236														
254.2	BK (FAULT) ZONE 254.7-257.3 CARB FILLED UPPER + 2cm QTZ VEIN (RED HEM) LOWER. (25770)														
					251.7	2573	25770	0.5	.001	2.4	.005	.003	.002		
254.2 -	M.A.L.T.														
266.7	BEDS. 260 m 65°														
266.7 -	G.G.A.L.T. BROKEN AT UPPER														
283.5	CONTACT. CHL. SLIPS @ 10° TCR.														
	269.6 CHL SLIP @ 30° TCR.														
	OCCASIONAL SMALL CARB FILLS @ VARIOUS L'S														
	274 - 283.4 FAULT ZONE @ 20° TCR														
	278.6-279.5 SHEAR W 3-5% BLEBS P/														
	TR CRY/PASS SP.				278.6	279.5	25771	0.9	.003	1.2	.028	.081	.032		
	281.3 - 292.2 QTZ CARB FILLED BK W SULFIDES ~20% P/														
	NEAREST TOR. BLEBS CRY 20% TR SP.				281.3	292.2	25772	0.9	.025	23.9	.340	.026	.442		
					282.2	292.4	773	1.2	.002	0.8	.003	.007	.016		

DRILL HOLE RECORD

Property _____ District _____ Hole No. 8.0FF12
 Commenced _____ Location _____ Tests at _____ Length _____
 Completed _____ Core Size _____ Hor. Comp. _____
 LAT. _____ DEP. _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 Objective _____ ELEV. _____ True Brg. _____ Logged by _____
 % Recov. _____ Date _____

Claim	T Brg.	Collar Dip	Elev.	Length

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS								
			RUN	SHORT				A ₁	A ₂	Ca	Pb	Zn	% Recovery			
283.4 - 289.5	MALT. BEDS 280m 65°															
289.5 - 302	GLA. L.T. * (SOLE STRINGER ZONE) * = GENERALLY MED. GRAINED OLIVE OCCASIONAL CARB. // & X CUTTING															
292.6 - 292.8	15774 15cm CARB/SOLEIDE VENT @ * 50° TCR. ≈ 60% SULE PY 25% CPY 20% SP 15%				292.6 - 292.8	25774	0.2	.68	3.0	1.45	.019	.014				
300 - *	292.8 - 294.7 ≈ 1-2% DISS. PY * 1cm CARB VENT @ 294.5 60° TCR - 85° TO BEDS				292.8 - 293.7	25775	0.9	.003	1.4	.004	.003	.029				
					293.7 - 294.7	776	1.0	.005	1.2	.004	.002	.025				
					294.7 - 295.15	777	0.45	.014	1.8	.002	.003	.012				
	295.15 - 295.4 1-2% DISS PY/TR CPY				295.15 - 295.4	778	0.35	.007	1.2	.001	.002	.029				
	* 295.4 - 296 BX ZONE. CARB/SOLEIDE FILL. ≈ 15% SULE 10% PY 3-4% CPY & SP. STRINGERS @ 30-40° TCR				295.4 - 296	779	0.6	.020	9.2	.002	.006	.035				

DRILL HOLE RECORD

Property _____ District _____ Hole No. 9 DE 12
 Commenced _____ Location _____ Tests at _____ Length _____
 Completed _____ Core Size _____ Hor. Comp. _____
 LAT. _____ DEP. _____ Core Size _____ ELEV. _____ Corr. Dip _____ Vert. Comp. _____
 Objective _____ True Brq. _____ Logged by _____
 % Recov. _____ Date _____

Claim	T Brq.	Collar Dip	Elev.	Length

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS						
			RUN	SHORT				As	Ag	Cu	Hg	Zn	% Recovery	
299.5 - 302	G.G. R.L.T. STRING ZONE CONT.							9/4	9/4	8	8	8		
	* 296-296.5 B/L SULE STRINGER ZONE * Bx'D (WACKE?) RECEMENTED W/ GARR BLEBS STRINGERS Cpy ≈ 15% VARIOUS L'S " F DISS. P/ ≈ 20% SP ≈ 2-4%				296-296.5	25780	0.5	.046	15.3	1.6	.005	.130		
	* Bx/STRONG BLEBS Cpy. ≈ 8% P/ 3% *				296.5-297	25791	0.5	.019	6.3	0.33	.004	.059		
	* " ≈ 8% W/BE P/ FINE SP 1% TR Cpy *				297-297.2	25792	0.2	.001	2.7	.04	.003	.031		
	* 2 Bx SULE ZONES (TOP & BOTTOM) @ 30-45° * BLEBS P/ (10%) / MINOR Cpy / TR SP				297.2-297.7	25783	0.5	.002	1.4	.002	.001	.050		
					297.7-298.4	25784	0.7	.013	2.6	.003	.003	.034		
	* FAULT B/L GARR 5% SULE @ 50° TLV *				298.4-298.9	25785	0.5	.001	1.9	.001	.003	.051		
	5-7% BLEBS P/ BEDS 300m/ 60°				298.9-299.1	25786	0.2	.017	3.5	.009	.005	.059		
					299.1-299.9	25787	0.8	.002	2.4	.026	.002	.190		

DRILL HOLE RECORD

Property _____ District _____ Hole No. _____ Length 11:05:12
 Commenced _____ Location _____ Tests at _____ Hor. Comp. _____
 Completed _____ Core Size _____ Corr. Dip _____ Vert. Comp. _____
 LAT. _____ DEP. _____ ELEV. _____ True Brg. _____ Logged by _____
 Objective _____ % Recov. _____ Date _____

Claim	T Brg.	Collar Dip	Elev.	Length

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS						
			RUN	SHORT				Al	Si	Ca	Pb	Zn	% Recovery	
373.3 - 384.2	M.A.L.T.							9/4	9/4	8	8	8		
384.2 - 387.9	G.A.L.T.													
387.9 - 399.2	M.A.L.T. SMALL CARR BY @ 396.4 - 396.7.													
399.2 - 400.3	FORPH GABBRO DYKE @ 80° T.C.A. BEDS @ 70°													
400.3 - 402.1	G.G.A.L.T.													
402.1 - 406.3	M.A.L.T.													
406.3 - 417.1	G.G.A.L.T. INCREASINGLY B'D TO FAULT ZONE #11.6 - 413.2 - TALC/KHL SLIPS @ 15-30° T.C.A. TR PY SOME PY FRACTS AT MARGINS													
								411.6 - 413.5	25788	1.9	.002	1.7	.001	.002 .058

DRILL HOLE RECORD

Property	District	Hole No.	Length
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
LAT.	DEP.	ELEV.	True Brg.
Objective		% Recov.	Date

12 OF 14

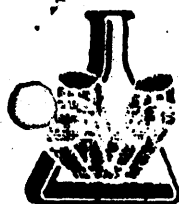
Gain	T Brg.	Collar Dip	Elev.	Length
------	--------	------------	-------	--------

METERS from to	DESCRIPTION	ESTIMATED % MINERAL	RECOVERY		SAMPLE INTERVAL	SAMPLE NO.	Length	ANALYSIS						
			RUN	SHORT				AV	AL	Ca	Pb	Zn	% Recovery	
417.1 - 420.6	M.A.L.T.							9/4	9/4	6	8	2		
420.6 - 446	G.M.A.L.T. w/ RARE INTERBED SEDS. * BX ZONE HEALED w/ CARB/BLACK QTZ. BLURS BY 1-2% LOSS TO CLAY 432-1 - 435.5				432-1 - 433.9 433.9 - 435.5	25785 25790	1.8 1.8	.003 .001	1.5 1.2	.006 .002	.001 .002	.001 .002	.012 .026	
440.4	SMALL FLT GOUGE @ 90° T.C.A. 0.2m. CARB STRINGERS.													
446-451 *	FAULT BX / DYKE. MAGT IN PORPH DIORITE DYKE w 25% FIBRES. FAULTED LAYER 30° T.C.A. w CARB FILL & GOUGE. @ 447.5 - 449.6.				446.5 - 447.6 447.6 - 448.6 448.6 - 449.6	25791 792 793	0.9 1.0 1.0	.001 .002 .003	1.3 1.2 1.8	.001 .001 .002	.001 .001 .003	.001 .001 .003	.043 .038 .074	
451-456.7	M.A.L.T.													

EDH

APPENDIX "B"

ASSAY CERTIFICATES



**MIN-EN
LABORATORIES**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5514 OR (604) 988-4524
TELEX: VIA U.S.A. 7801087 • FAX (604) 980-9821

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 067
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 284-9996

Assay Certificate

OS-0014-RA1

Company: SWIFT MINERALS LTD.
Project: GROUSE
Attn: R. VERZOSA/D. DUNN

Date: JAN-29-90
Copy 1. SWIFT MINERALS LTD., VANCOUVER, B.C.
2. SWIFT MINERALS LTD., C/O MIN-EN LABS.

We hereby certify the following Assay of 15 ROCK samples submitted JAN-26-90 by DAVID DUNN.

Sample Number	Int(m)	*AU G/TONNE	*AU OZ/TON	AG G/TONNE	AG OZ/TON	CU %	PB %	ZN %	Width (m)
25 951	44.2-45.8	.21	.006	6.6	.19	.025	.20	1.23	1.6
25 952	45.8-46.8	.42	.012	34.2	1.00	.210	.39	3.64	1.0
25 953	46.8-47.3	.23	.007	94.8	2.77	.584	.30	19.05	0.5
25 954	47.5-48.7	.01	.001	2.2	.06	.007	.01	.11	1.2
25 955	48.0-48.5	.01	.001	2.4	.07	.001	.01	.05	0.5
25 956	137.5-137.9	.06	.002	0.2	.01	.002	.01	.02	0.4
25 957	163.2-163.5	.04	.001	6.2	.18	.054	.01	.62	0.3
25 958	175.3-177.0	.03	.001	9.5	.28	.242	.04	1.06	1.72
25 959	177.0-177.0	.03	.001	6.0	.18	.014	.04	.50	2.0
25 960	174.0-180.3	.01	.001	1.0	.03	.002	.01	.07	1.3
25 961	180.3-181.4	.07	.002	29.4	.86	.930	.02	.52	1.1
25 962	181.4-182.0	.06	.002	0.4	.01	.006	.01	.18	0.6
25 963	203.9-204.3	.09	.003	1.9	.06	.064	.01	2.01	0.4
25 964	61.1-61.2	.01	.001	0.2	.01	.002	.01	.01	1.1
25 965	90.8-91.2	.05	.001	0.5	.01	.002	.01	.02	0.4

*AU - 1 ASSAY TON.

Certified by

[Handwritten Signature]

MIN-EN LABORATORIES



MIN-EN LABORATORIES

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
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TELEX: VIA U.S.A. 7801067 • FAX (604) 280-8821

TIMMINS OFFICE:
33 EAST IRCOUAIS ROAD
P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9446

Assay Certificate

OS-0025-RA3

Company: SWIFT MINERALS LTD.
Project: GROUSE
Attn: R. VERIOSA/D. DUNN

Date: FEB-05-90
Copy 1. SWIFT MINERALS LTD., VANCOUVER, B.C.
2. SWIFT MINERALS LTD., C/O MIN-EN LABS.

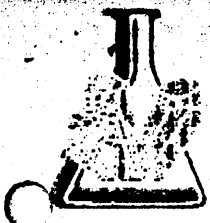
We hereby certify the following Assay of 22 ROCK samples submitted FEB-01-90 by D. DUNN.

Sample Number	Hole #	*AU G/TONNE	*AU G/TONNE	AG G/TONNE	AS G/TONNE	CU %	FE %	ZN %	Interval	
25979	617-90-2	1	.001	1.3	.05	.001	.01	.01		
25980		.02	.001	1.3	.04	.001	.01	.01		
25981		.02	.001	1.3	.05	.002	.01	.01		
25982		.01	.001	3.2	.09	.016	.01	.02		
25983		.01	.001	4.7	.14	.026	.02	.38	146.3-148.0	
25984		.02	.001	2.0	.06	.057	.02	2.00	178.0-200.0	
25985	617-90-3	.04	.001	12.1	.35	.194	.01	2.71	205.0-208.2	
25986		.02	.001	1.0	.03	.001	.01	.02		
25987		.01	.001	0.1	.01	.001	.01	.01		
25988		.02	.001	0.2	.01	.004	.01	.01		
25989		0.3	3.36	.098	575.0	16.77	4.750	.86	9.55	28.0-28.3
25990		0.1	.02	.001	6.2	.18	.043	.02	10.20	31.6-31.7
25991	0.1	.06	.002	2.0	.06	.004	.01	1.67	38.9-39.6	
25992	617-90-6	.01	.001	2.6	.08	.014	.01	.12		
25993		.04	.001	1.7	.05	.002	.01	.03		
25994		0.7	.02	.001	3.1	.09	.014	.01	.48	113.2-113.9
25995		.01	.001	0.3	.01	.001	.02	.01		
25996		.01	.001	1.3	.04	.005	.01	.01		
25997		.02	.001	0.3	.01	.001	.01	.01		
25998	617-90-6	.01	.001	1.3	.04	.001	.02	.01		
25999		.01	.001	2.2	.06	.004	.01	.01		
26000		.02	.001	0.7	.02	.008	.01	.04		

*AU - 1 ASSAY TON

Certified by *R. Veriosa*

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TELEPHONE (705) 262-9966

Assay Certificate

OS-0025-RA2

Company: SWIFT MINERALS LTD.
Project: GROUND
Attn: R. VERZOSA/D. DUNN

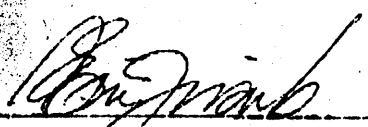
Date: FEB-05-90
Copy 1. SWIFT MINERALS LTD., VANCOUVER, B.C.
2. SWIFT MINERALS LTD., C/O MIN-EN LABS.

We hereby certify the following Assay of 29 ROCK samples submitted FEB-01-90 by D. DUNN.

Sample Number	Hole #	Width	*AU TONNE	*GJ OZ/TON	AG G/TONNE	AG OZ/TON	CU %	FE %	ZN %	Interval
25681	GM-90-5C		.02	.001	3.9	.11	.008	.01	.37	
25682			.01	.001	1.9	.06	.001	.01	.16	
25683			.01	.001	0.8	.02	.001	.01	.01	
25684			.03	.001	1.9	.06	.001	.02	.10	
25685			.01	.001	1.5	.05	.001	.01	.01	
25686		0.4	.02	.001	2.2	.06	.005	.01	.29	122.6-124
25687		0.6	.04	.001	24.2	.71	.732	.14	.58	123.6-124
25688		0.6	.02	.001	2.9	.08	.034	.01	.28	124.2-124
25689			.01	.001	2.2	.06	.010	.01	.02	
25690			.01	.001	0.4	.01	.001	.01	.01	
25691			.01	.001	0.2	.01	.001	.01	.01	
25692			.02	.001	3.8	.11	.054	.07	.98	
25693			.01	.001	2.7	.08	.006	.01	.82	
25694			.01	.001	2.3	.07	.008	.01	.54	
25695	GM-90-6		.02	.001	1.2	.04	.006	.01	.08	
25696			.01	.001	1.9	.06	.001	.01	.02	
25697		0.3	.03	.001	14.3	.42	.001	.01	.09	78.6-78.7
25698			.23	.007	38.4	1.12	.046	.14	.36	
25699		1.1	.18	.005	29.6	.86	.080	.05	1.64	116.7-117.3
25700			.02	.001	20.1	.59	.013	.02	.30	
25701			.01	.001	2.1	.06	.001	.01	.12	
25702	GM-90-2		.02	.001	1.4	.04	.001	.01	.04	
25703			.01	.001	3.2	.09	.002	.01	.06	
25704			.02	.001	2.1	.06	.001	.01	.05	
25705			.02	.001	2.0	.06	.001	.01	.01	
25706				.02	.001	1.3	.04	.001	.01	.02
25707			.02	.001	1.5	.04	.002	.01	.01	
25708			.01	.001	1.7	.05	.001	.01	.01	
25709			.22	.006	1.4	.04	.001	.01	.01	

*AU - 1 ASSAY TON

25660
25966

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TIMMINS ONTARIO CANADA P4N 1G7
TELEPHONE (705) 264-9996

Assay Certificate

OS-0025-RA1

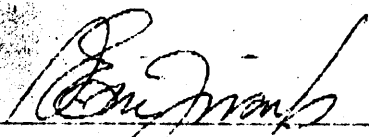
Company: SWIFT MINERALS LTD.
Project: GROUSE
Attn: R. VEITOGA/D. DUNN

Date: FEB-05-90
Copy 1. SWIFT MINERALS LTD., VANCOUVER, B.C.
2. SWIFT MINERALS LTD., 375 HWY-66, LAES.

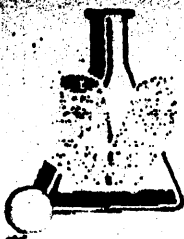
We hereby certify the following Assay of 29 ROCK samples submitted FEB-01-90 by D. DUNN.

Sample Number	Hole #	Wt (g)	YAU G/TONNE	YAU G/TONNE	AG G/TONNE	AG G/TONNE	CU %	FR %	ZN %	widths (m)	
25651	GM-90-3	1.5	.01	.001	1.8	.05	.001	.01	.02	179.6-180.7	
25652			.01	.001	2.6	.08	.004	.01	.44	180.2-181.4	
25653			.01	.001	1.9	.06	.001	.02	1.23	181.4-182.9	
25654			.01	.001	3.3	.11	.010	.01	.47	22.9-23.9	
25655			.02	.001	5.0	.15	.026	.01	.19	33.4-33.8	
25656	GM-90-4	0.2	.03	.001	2.1	.06	.002	.01	.16	33.8-35.8	
25657			1.44	.042	106.5	3.11	.747	2.67	4.65	35.8-36.0	
25658			.01	.001	3.8	.11	.026	.02	.30	36.0-32.5	
25659			1.1	.02	.001	12.3	.36	.432	.01	1.32	72.5-73.6
25661			0.4	.10	.003	10.7	.31	.151	.01	4.46	23.8-24.4
25662			.01	.001	0.4	.01	.001	.02	.02	102.2-103.0	
25663			.02	.001	6.1	.18	.076	.01	.14		
25664			.01	.001	1.9	.06	.001	.01	.13		
25665			.05	.001	3.6	.11	.018	.01	.14		
25666			.01	.001	2.2	.06	.001	.01	.01		
25667	GM-90-5	0.1	0.02	.001	10.2	.30	.236	.02	.76	61.8-62.0	
25668			.01	.001	6.1	.18	.031	.01	.70	102.1-102.7	
25669			.02	.001	1.7	.05	.001	.01	.01		
25670			.03	.001	2.0	.06	.006	.01	.02		
25671			0.06	-.002	88.5	2.58	11.250	.01	.27	120.5-120.6	
25672			.03	.001	2.3	.08	.054	.01	.04		
25673			0.5	.01	.001	2.4	.08	.016	.01	.07	133.1-133.6
25674			0.2	.02	.001	4.7	.14	.001	.04	1.12	157.8-158.0
25675			0.2	.02	.001	6.0	.18	.001	.01	.42	159.0-159.2
25676			.02	.001	3.2	.09	.001	.01	.18		
25677			.02	.001	4.0	.12	.004	.01	.30		
25678			.02	.001	2.3	.07	.001	.02	.06		
25679			0.5	.03	.001	22.0	.64	.467	.02	1.51	171.1-171.6
25680			.02	.001	3.1	.09	.030	.01	.54		

*AU - 1 ASSAY TON

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Geochemical Analysis Certificate OS-0028-RG1

Company: SWIFT MINERALS
Project: GROUSE
Attn: R. VERZOSA/D. DUNN

Date: FEB-16-90
Copy 1. SWIFT MINERALS, VANCOUVER, B.C.
2. SWIFT MINERALS, C/O MIN-EN LABS.

We hereby certify the following Geochemical Analysis of 25 ROCK samples submitted FEB-13-90 by A. MUIRHEAD.

Sample Number	AD-FIRE PPA	AG PPM	CU PPM	PB PPM	ZN PPM
25751 251.7 - 252.3	4	1.4	31	25	132
25770 251.7 - 252.3	1	2.4	49	27	20
25771 278.6 - 279.5	3	1.2	280	20	320
25772 291.3 - 292.2	25	23.5	3400	260	4420
25773 292.2 - 293.4	2	0.8	30	21	363
25774 292.6 - 292.8	84	36.0	14500	187	140
25775 292.9 - 293.7	3	1.4	38	25	290
25776 293.7 - 294.7	5	1.2	45	22	250
25777 294.7 - 295.15	14	1.8	19	29	175
25778 295.15 - 295.4	2	1.2	10	15	290
25779 295.4 - 296.2	20	9.2	15	52	352
25780 296. - 296.5	48	15.3	11000	50	1300
25781 296.5 - 297	19	6.3	3340	44	525
25782 297 - 297.2	1	2.7	370	26	315
25783 297.2 - 297.7	2	1.4	16	12	478
25784 297.7 - 298.4	13	2.6	34	29	340
25785 298.4 - 298.9	1	3.9	12	27	514
25786 298.9 - 299.1	17	3.5	90	50	590
25787 299.1 - 299.9	2	2.4	264	23	1800
25788 411.6 - 413.5	2	1.7	12	18	580
25789 432.1 - 432.9	3	1.5	60	10	123
25790 433.9 - 435.8	1	1.2	20	21	256
25791 440.8 - 447.6	1	1.3	7	14	428
25792 447.6 - 448.6	2	1.2	12	12	384
25793 448.6 - 449.6	3	1.8	15	26	735

10-300
96.0-96.5
96.5-97.0

Certified by *R. Verzosa*

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TELEPHONE: (705) 264-9996

Assay Certificate

OS-0026-RA1

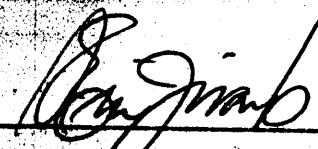
Company: SWIFT MINERALS
Project: GROUSE MT.
Attn: R. VERZOSA/D. DUNN

Date: FEB-09-90
Copy 1. SWIFT MINERALS, VANCOUVER, B.C.
2. SWIFT MINERALS, C/O MIN-EN LABS.

We hereby certify the following Assay of 24 ROCK samples submitted FEB-05-90 by DAVID DUNN.

Sample Number	*AU G/TONNE	*AU OZ/TON	AG G/TONNE	AG OZ/TON	CU %	PB %	ZN %
25698	.51	.015	5.9	.17	.006	.02	.04
25699	.02	.001	2.6	.08	.016	.01	.56
25700	.03	.001	1.8	.05	.010	.01	.58
25701	.04	.001	21.9	.64	.355	.14	13.35
25702	.02	.001	1.7	.05	.006	.01	.23
25703	.01	.001	4.7	.14	.024	.01	.98
25704	.02	.001	20.1	.59	.078	.02	.61
25705	.01	.001	1.7	.05	.006	.01	.17
25706	.03	.001	5.6	.16	.030	.01	.33
25707	.03	.001	7.4	.22	.072	.01	.64
25708	.02	.001	6.3	.18	.042	.01	.38
25709	.02	.001	2.1	.06	.024	.01	.24
25710	.01	.001	4.8	.14	.058	.01	.42
25711	.02	.001	2.0	.06	.010	.01	.50
25712	.04	.001	1.1	.03	.004	.01	.08
25713	.04	.001	0.8	.02	.002	.01	.01
25714	.02	.001	1.9	.06	.001	.01	.01
25715	.03	.001	0.3	.01	.001	.01	.02
25716	.02	.001	2.0	.06	.015	.01	.36
25717	.04	.001	1.4	.04	.007	.01	.01
25718	.02	.001	0.8	.02	.002	.01	.01
25719	.01	.001	1.9	.06	.002	.01	.02
25720	.01	.001	1.5	.04	.001	.01	.06
25721	.02	.001	6.3	.18	.137	.01	7.77

*AU - 1 ASSAY TON

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Zn% Cu.% Ag g/t

COMP: SWIFT MINERALS
 PROJ: GROUSE
 ATTN: D.VERZOSA/D.DUNN

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)960-5814 OR (604)988-4524

FILE NO: 05-0027-RJ1
 DATE: FEB-15-90
 * TYPE ROCK GEOCHEM * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TN PPM	U PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPM
25 752	2.0	21340	4	1	46	.6	13	42010	3.8	12	31	42000	1530	26	13120	1217	2	620	7	740	24	1	16	1	1	45.9	597	3	1	1	51	1
25 753	2.2	5030	17	1	21	.3	9	163600	.5	6	121	9500	740	7	5320	1825	2	40	7	570	22	3	46	1	1	315.7	33	2	1	1	35	2
25 754	2.4	8720	20	4	60	.3	7	180780	.2	6	88	14770	510	12	5920	2896	3	80	8	610	39	1	20	1	1	121.8	59	3	1	1	30	1
25 755	2.0	10890	16	1	382	.3	7	164770	.1	6	68	18600	710	13	6040	2516	2	90	7	430	46	1	1	1	1	79.5	113	3	1	1	20	3
25 756	1.8	11250	8	1	200	.3	5	107970	.1	6	52	18680	1120	12	5340	1858	2	130	4	370	23	1	1	1	1	54.8	76	2	1	1	22	1
25 757	2.0	8150	13	1	640	.3	5	145090	.1	6	115	13740	910	9	4690	1826	2	100	6	360	21	1	1	1	1	90.7	53	2	1	1	21	2
25 758	1.8	18560	31	1	359	.4	7	128060	.1	10	178	34580	960	22	10570	2015	2	140	5	540	35	1	1	1	1	231.9	103	3	1	1	20	2
25 759	2.4	6590	42	1	200	.3	8	191420	.1	7	55	15890	680	8	4430	2615	3	60	7	460	39	3	23	1	1	92.4	36	3	1	1	23	1
25 760	2.2	21650	65	1	282	.5	7	94560	.1	14	71	42200	1570	25	10900	2176	2	190	6	490	60	1	14	1	1	165.3	144	3	1	1	14	1
25 761	2.6	1530	44	1	24	.2	8	198910	1.1	4	34	5190	200	2	1730	4279	3	30	11	150	76	5	74	1	2	37.7	89	3	1	1	62	1
25 762	2.8	2440	98	1	202	.2	9	229700	3.3	5	75	8000	300	3	2460	3060	5	30	9	210	82	8	9	2	1	76.0	359	3	1	1	22	3
25 763	2.8	960	69	1	1403	.2	8	251230	.1	4	26	4310	340	1	1580	1289	7	30	5	250	56	8	26	2	2	115.3	15	3	1	1	29	2
25 764	1.2	17870	2	1	442	.4	6	78960	.1	10	16	31510	1230	22	9430	1218	1	140	3	490	21	1	9	1	1	103.2	73	3	1	1	15	1
25 765	2.6	2520	26	1	255	.1	7	201340	.1	4	23	5040	400	3	2250	1419	3	30	6	210	36	4	1	1	1	45.5	14	3	1	1	26	3
25 766	2.5	1240	34	1	121	.2	7	210030	.1	3	19	2580	320	2	1850	1665	3	20	6	230	43	6	1	2	1	33.3	17	3	1	1	23	2
25 767	2.1	12990	15	9	334	.4	5	50250	.1	9	53	34780	1840	13	5950	4055	1	110	7	560	22	1	10	1	1	112.1	91	2	1	1	89	6
25 768	1.6	21350	14	1	196	.4	7	44440	.1	11	206	47980	1870	23	9320	5104	1	60	10	1120	21	1	10	1	1	88.9	110	3	1	1	25	1
25 769	1.2	17710	7	1	568	.4	7	35810	.1	13	50	30220	1470	22	7240	2280	2	150	4	490	26	1	16	1	1	102.6	123	2	1	1	25	2

APPENDIX "C"
GEOPHYSICAL TEST SURVEY

Grouse Mountain Property

GENIE SURVEY TEST

In February 1990, 2.45 kilometers of test lines were surveyed on the Grouse Mountain property, with a Scintrex SE-88 'Genie' portable electromagnetic system. The two-man system consists of a TM-2 transmitter and an IGS-2/EM-4 digital receiver. The frequencies employed were those which are intrinsic to the SE-88 Genie system: a reference frequency of 112.5 Hz and signal frequencies of 337.5, 1012.5 and 3037.5 Hz. The transmitter and receiver separation varied between 50, 100 and 150 meters on various lines. The quantity calculated and presented in each case is the percentage change in the ratio of the measured amplitude at the signal frequency over that at the reference frequency. Data is plotted in stacked profiles which very closely resemble that of the Max-Min HLEM System. A typical anomaly profile is characterized by a negative trough, directly over the conductor, flanked by positive peaks.

The purpose of this survey was to determine whether this geophysical technique would yield more information of the dip, depth and size, and sulphide content of the known zones. This being the case, it would then be used to survey extensions of the zones and unknown areas of the property. Test lines were run over the Rainstorm, Creek, Copper Crown and Ruby Zones.

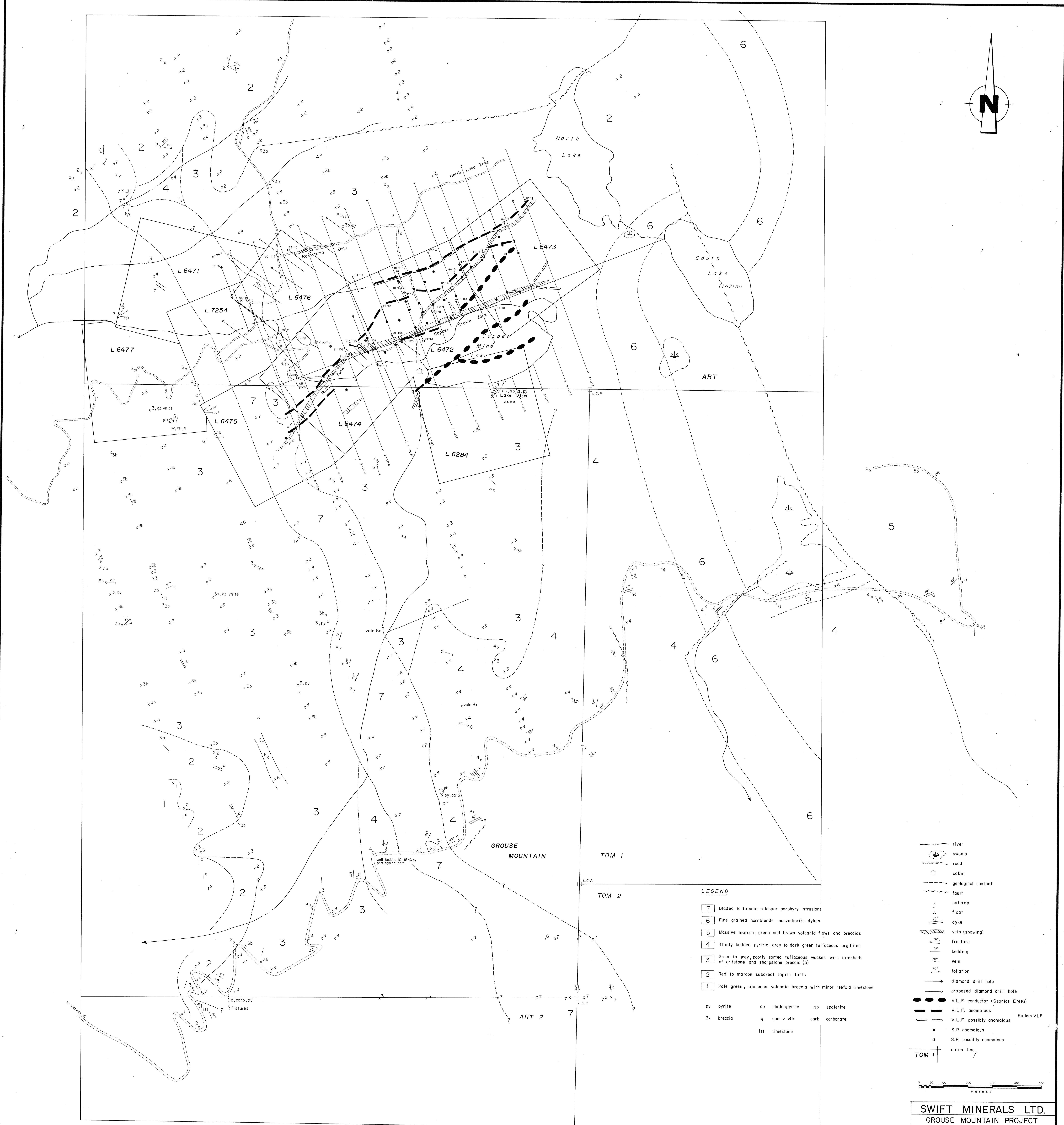
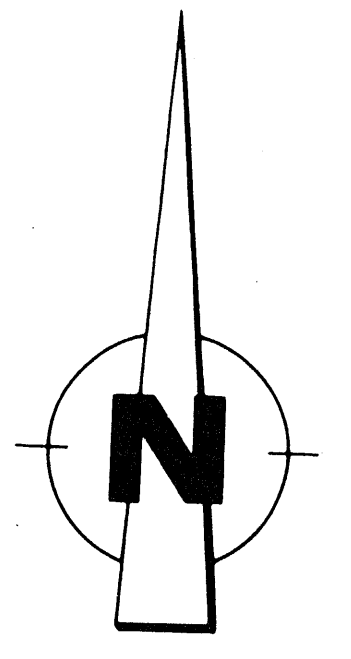
In general the results were of a very low amplitude response. The responses over known VLF-EM targets were poor. VLF-EM has proven very useful in outlining the known zones, but lacks the ability to provide detailed information of these structures. Only across the Copper Crown zone did the Genie respond favourably. Other anomalies that might reflect a zone are in the order of +/- 1%, and appear in general to be background level fluctuations. There is not enough information in the data to warrant a qualitative interpretation or recommend a large scale Genie survey. Due to the winter conditions and difficulty associated with setting up a slope corrected grid and surveying the mountainous terrain, a better prepared and planned attempt in the summer with either Genie or Max-Min HLEM might provide useful information. Running a Max-Min survey on the property would definitely require cut lines and slope corrected stations.

The lack of a strong response over the Ruby Zone, which is the most promising zone, was surprising. Line 4+75W at an azimuth of 130° located the Ruby Zone. Line 4+00W at an azimuth of 120° did not define the Ruby Zone as well. The underground assays were high in percentage zinc, but sphalerite is a very poor conductor. The level-one assays were much higher in percentage copper than level two.

In conclusion, it appears that the Genie system is not conducive to this type of target. This is most likely explained by a lack of conductive sulphides in the structures, or, at least in the direct vicinity of the surveyed lines. Further geophysical work on the remainder of the property should consist of:

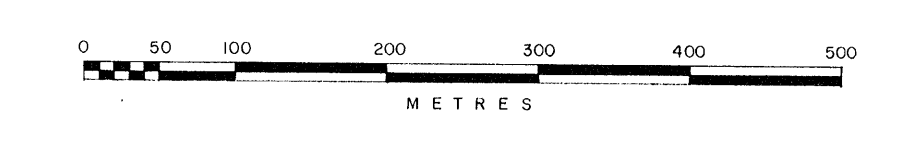
- a) a slope-corrected picketed grid;
- b) detailed VLF-EM surveying on 100-meter spaced lines;
- c) SP test lines on anomalous VLF lines; and possibly
- d) another test with a HLEM system (either Max-Min or Genie).

The suggestion to do another HLEM test is made because VLF-EM conductors do not respond primarily to sulphide content and are often caused by clay-rich conductive fault zones. VLF will also often outline poor conductors.



- LEGEND**
- 7 Bladed to tabular feldspar porphyry intrusions
 - 6 Fine grained hornblende monzodiorite dykes
 - 5 Massive maroon, green and brown volcanic flows and breccias
 - 4 Thinly bedded pyritic, grey to dark green tuffaceous argillites
 - 3 Green to grey, poorly sorted tuffaceous wackes with interbeds of gritstone and sharpstone breccia (b)
 - 2 Red to maroon subaerial lapilli tuffs
 - 1 Pale green, siliceous volcanic breccia with minor reefoid limestone
- py pyrite cp chalcopyrite sp spalerite
Bx breccia q quartz vltz carb carbonate
lst limestone

- river
- swamp
- road
- cabin
- geological contact
- fault
- outcrop
- float
- dyke
- vein (showing)
- fracture
- bedding
- vein
- foliation
- diamond drill hole
- proposed diamond drill hole
- V.L.F. conductor (Geonics EM16)
- V.L.F. anomalous
- V.L.F. possibly anomalous
- S.P. anomalous
- S.P. possibly anomalous
- claim line



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GROUSE MOUNTAIN PROJECT

Data from Teck Corp. 1984 and G.S.C. open file 351 (H.W. Type)
ALL LOCATIONS ARE APPROXIMATE

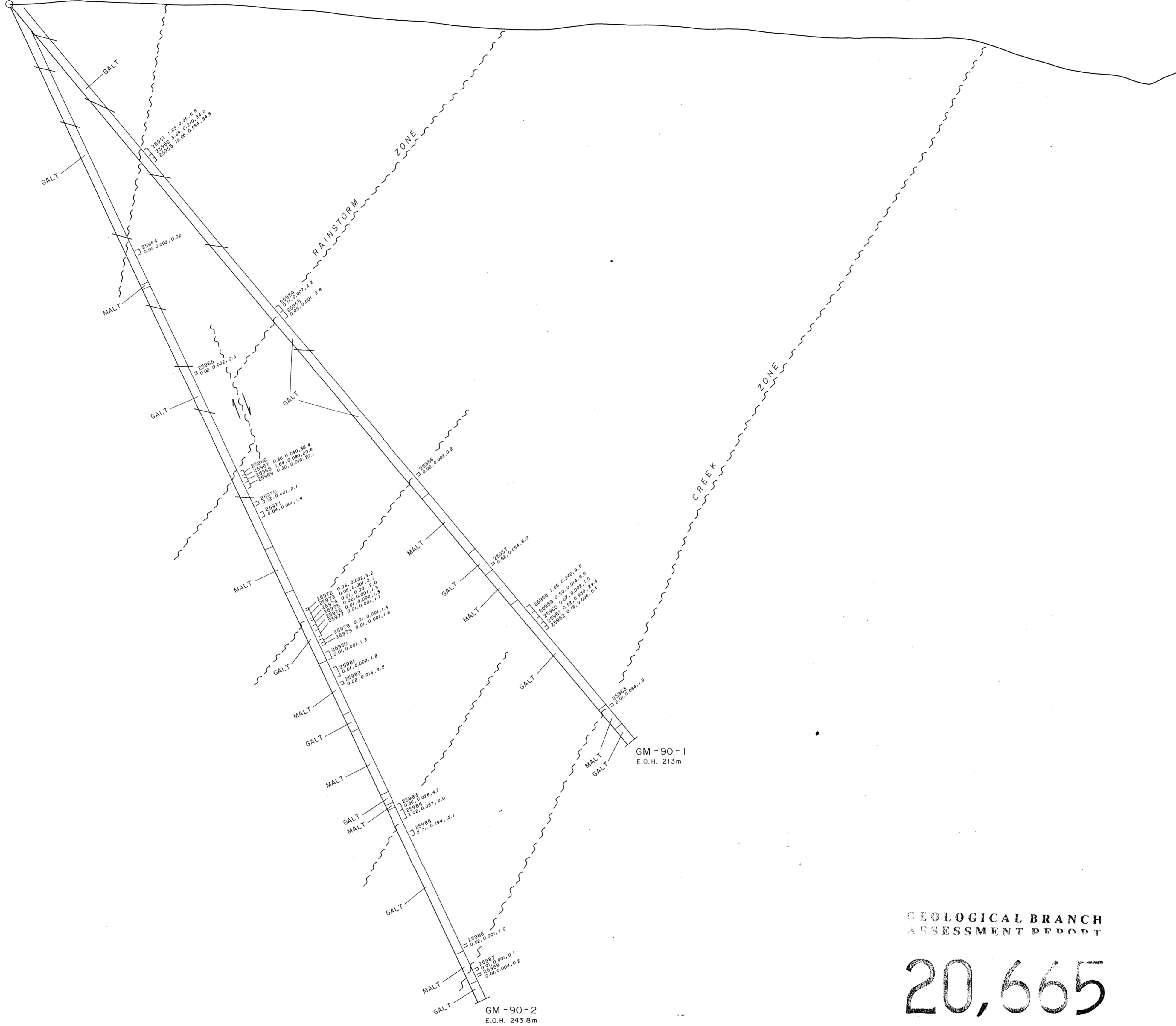
GEOLOGICAL BRANCH
ASSESSMENT
Compilation Map

20,665

Rev	Feb. 1990	N.T.S.	93L/10
Scale	1:5000	Map	

GM-90-1/2
Drill Hole Collar
Elevation: 1370m

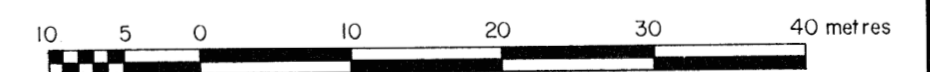
→ AZIMUTH 160°



GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,665

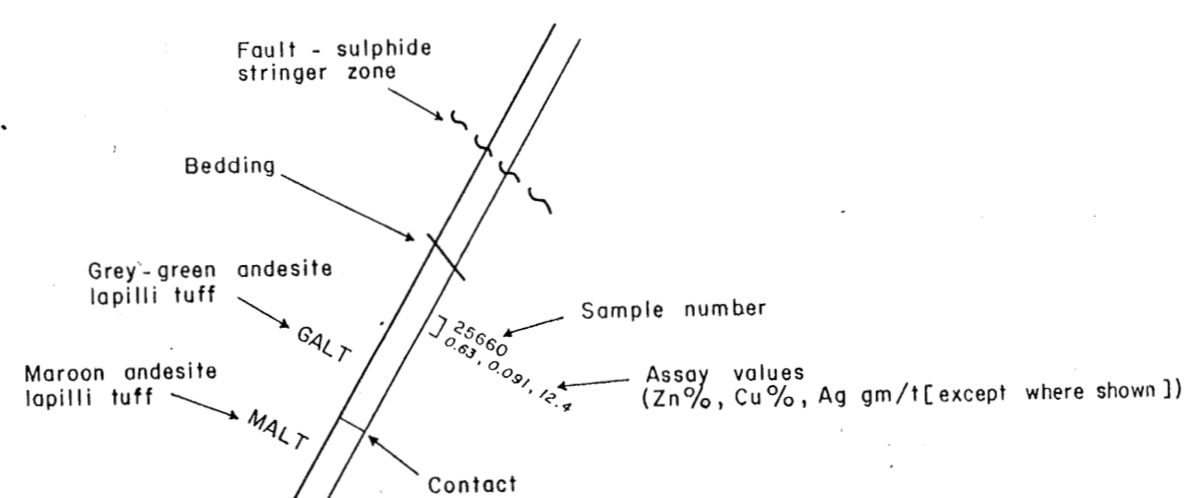
Section Looking E.N.E. (70°)



GEOLOGY

- GALT Grey-green andesite lapilli tuff : well-bedded tuffs with minor intercalated wackes and carbonate rich sediments. Lapilli, 5-8cm
- MALT Maroon andesite lapilli tuff : Deep maroon, poorly bedded. Lapilli, 5-8cm

LEGEND



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D.D.H. Cross Sections

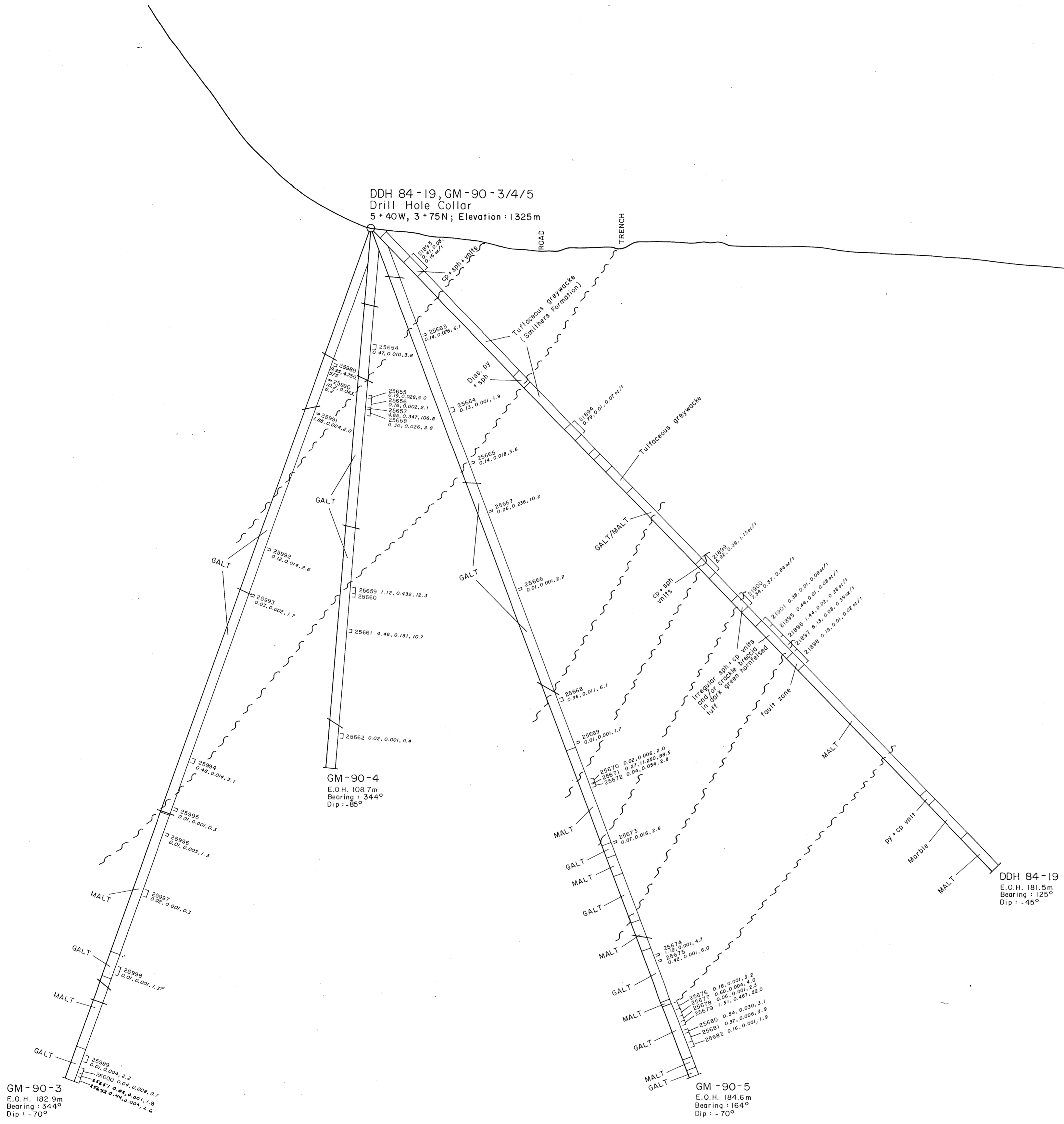
GM-90-1

GM-90-2

Date	Feb, 1990	N.T.S.
Scale	1 : 500	Figure
By		

AZIMUTH 164° →

DDH 84-19, GM-90-3/4/5
Drill Hole Collar
5 + 40W, 3 + 75N; Elevation: 1325m



20,665

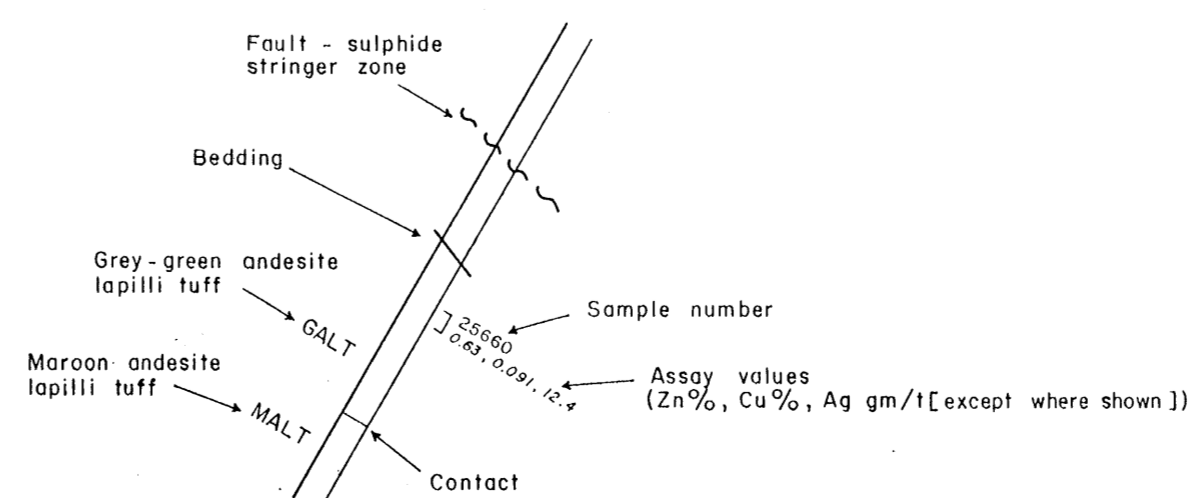
Section Looking E.N.E. (74°)

GEOLOGY

GALT Grey-green andesite lapilli tuff :
well-bedded tuffs with minor intercalated wackes
and carbonate rich sediments. Lapilli, 5 - 8 cm

MALT Maroon andesite lapilli tuff
Deep maroon, poorly bedded. Lapilli, 5 - 8 cm

LEGEND



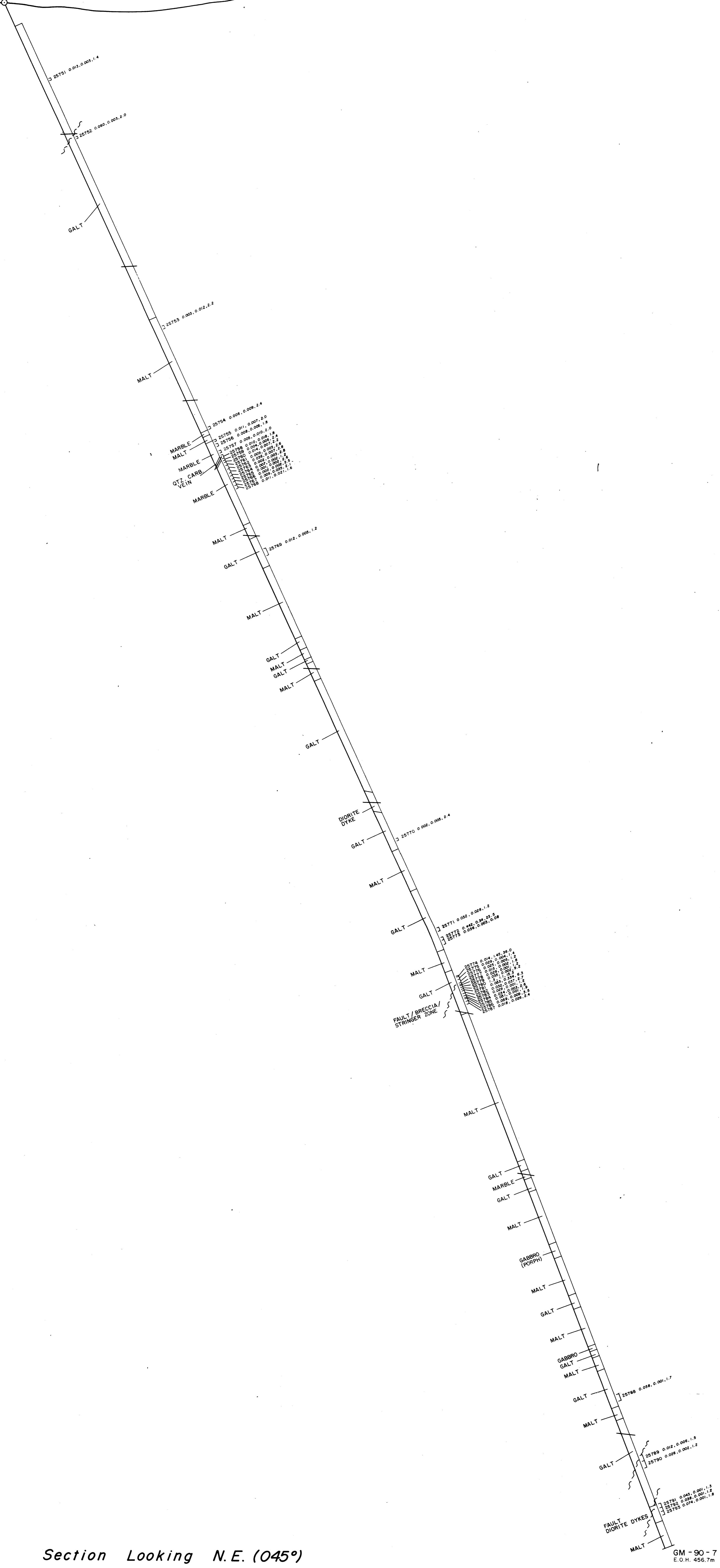
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GROUSE MOUNTAIN PROJECT

D.D.H. Cross Sections
GM-90-3 GM-90-4
GM-90-5 D.D.H. 84-19

Date	Feb. 1990	W.T.S.
Scale	1 : 500	Figure
By		

AZIMUTH 135°

GM-90-7
Drill Hole Collar
Location: 1*75N, 4*25E
Elevation: 1370 m



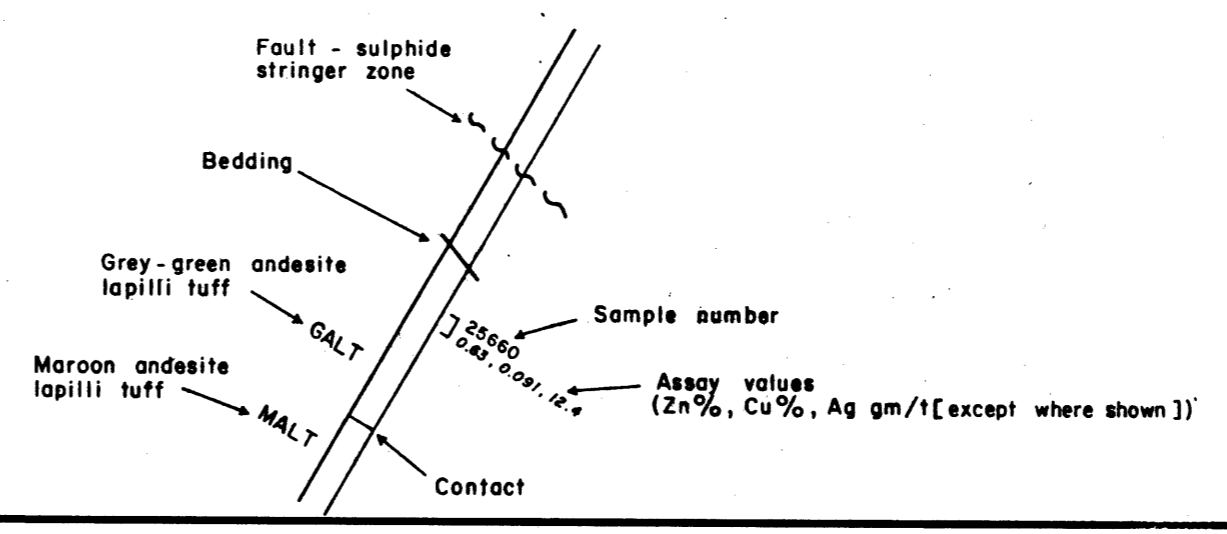
Section Looking N.E. (045°)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
20,665

GEOLOGY

GALT Grey-green andesite lapilli tuff: well-bedded tuffs with minor intercalated wackes and carbonate rich sediments. Lapilli, 5-8cm
MALT Maroon andesite lapilli tuff. Deep maroon, poorly bedded. Lapilli, 5-8cm

LEGEND



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D.D.H. Cross Sections
GM-90-7

Date	Feb. 1990	N.T.S.
Scale	1 : 500	Figure
By		