

REPORT

- on the -

DIAMOND DRILLING PROGRAMME

- on the -

SNOWFLAKE PROPERTY
NICOLA MINING DIVISION
BRITISH COLUMBIA

- FOR -

LARAMIDE RESOURCES LTD.
904 - 675 WEST HASTINGS STREET
VANCOUVER, B.C. V6B 1N2

Covering: Snowflake, Snowflake #2, Snowflake #3, Snowflake #4,
Snowflake #5, Snowflake #6, Snowflake #7,
Snowflake #10, Tule #10, Pot #3, Pot #4.

Work Performed: September 1, 1983 - January 17, 1984.

Location: (1). $49^{\circ} 58'N$, $120^{\circ} 35'W$

(2). N.T.S. 92H/15E

(3). 5 km. NE of Aspen Grove

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

prepared by:

KERR, DAWSON & ASSOCIATES LTD.
#206 - 310 Nicola Street,
Kamloops, B.C. V2C 2T5

JAMES M. DAWSON, P. ENG.

February 28, 1984.

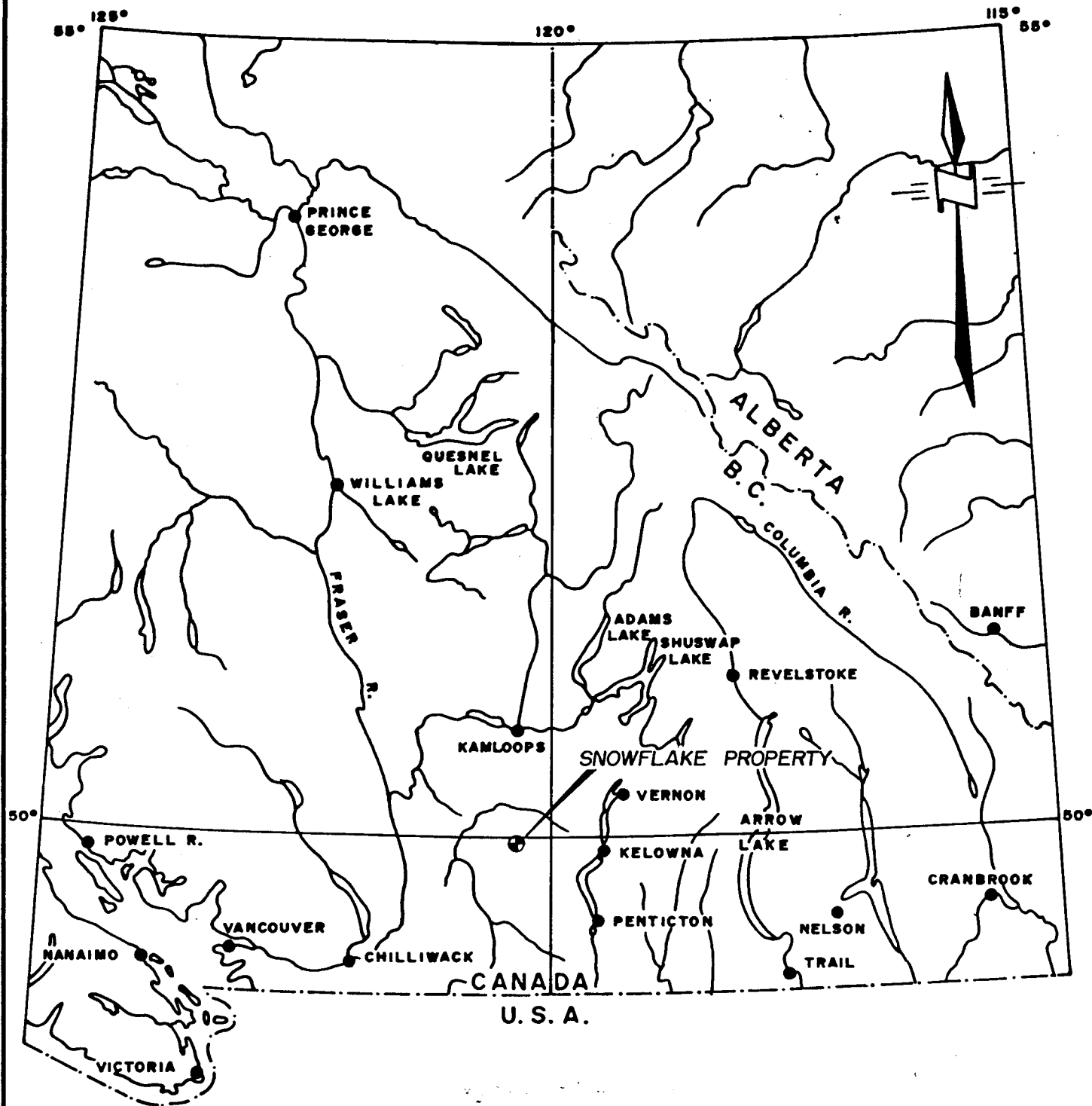
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LOCATION MAP
SNOWFLAKE - POT CLAIMS

NICOLA MINING DIVISION, B.C.

Date: Feb, 1984.

Scale: 1" = 64 Miles

Dwn by: W.G.

Dwg no. 278-1

INTRODUCTION:

This report describes the latest phase in a continuing exploration programme on the Snowflake property.

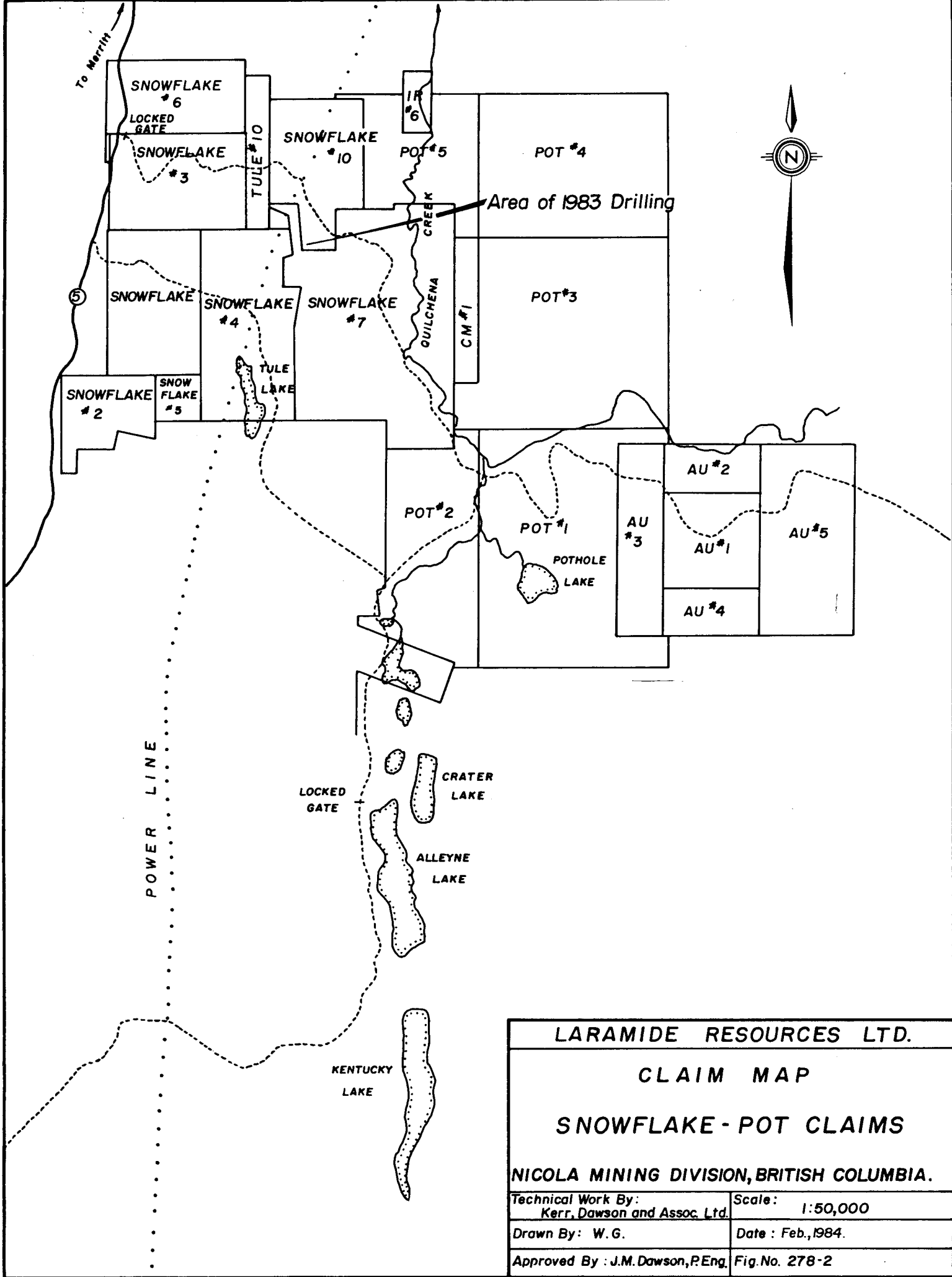
Preliminary investigation of this property outlined magnetic and induced polarization anomalies over an area where previous drilling had encountered interesting gold and copper values.

A reconnaissance drilling programme was carried out in an effort to confirm and expand upon results of the older work. Results are appended on maps accompanying this report.

SUMMARY AND CONCLUSIONS:

(1). The Snowflake property consists of 14 contiguous metric claims aggregating 138 units located in gentle terrain in the Aspen Grove district of southern British Columbia and is road accessible.

(2). The property as now constituted has been explored for many years principally for alkaline porphyry copper occurrences. The area of current interest was first known as the CM claims. In 1967, magnetic and induced polarization surveys were performed and 4 holes were drilled into a coincident magnetic and I.P. anomaly. At least one of these holes reportedly encountered significant precious metal values. In 1983, Laramide Resources Ltd. attempted to duplicate this work. Magnetic and induced polarization surveys were carried out and some of the old drill sites were located.



LARAMIDE RESOURCES LTD.	
CLAIM MAP	
SNOWFLAKE - POT CLAIMS	
NICOLA MINING DIVISION, BRITISH COLUMBIA.	
Technical Work By: Kerr, Dawson and Assoc. Ltd.	Scale: 1:50,000
Drawn By: W.G.	Date: Feb., 1984.
Approved By: J.M. Dawson, P.Eng.	Fig. No. 278-2

(3). The property is underlain by Nicola group intermediate volcanics and volcanoclastic sediments intruded by a number of small diorite-manzonite stocks. In the area drilled, Nicola group flows and fragmental volcanics are structurally overlain by dark clastic sediments. A number of strong faults or shear zones cut this succession.

(4). One or more stringer zones of quartz and quartz-calcite veins, usually associated with strong argillic alteration cuts the volcano-sedimentary succession. Pyrite, weak base metal sulphide and gold mineralization is associated with these zone(s).

PROPERTY:

The property consists of 14 contiguous metric claims aggregating 138 units. The following claims are included in the Snowflake group:

<u>Claim Name</u>	<u>Tag No.</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Expiry Date</u>
Snowflake	02059	6	8 (5)	May 13/85
Snowflake #2	19656	4	93 (4)	Apr 14/86
Snowflake #3	19657	6	167 (8)	Aug 20/85
Snowflake #4	00548	8	211 (2)	Feb 11/85
Snowflake #5	00550	2	212 (2)	Feb 11/85
Snowflake #6	11822	6	321 (9)	Sept 16/85
Snowflake #7	19906	20	470 (6)	June 15/85
Snowflake #10	42682	6	514 (10)	Oct 25/85
Tule #10	12181	4	322 (9)	Sept 16/85
Pot #3	78770	20	1373 (3)	Mar 24/84
Pot #4	78769	12	1374 (3)	Mar 24/84

The following claims are ungrouped:

Pot #1	78772	20	1371 (3)	Mar 24/84
Pot #2	78771	15	1372 (3)	Mar 24/84
Pot #5	68614	9	1300 (10)	Oct 20/84

LOCATION AND ACCESS:

The property is located in south-central British Columbia about 20 km. southeast of Aspen Grove and approximately 80 km. south of Kamloops. Approximate geographic center of the property is at $49^{\circ} 58'$ north and $120^{\circ} 35'$ west.

Access is gained by taking Provincial Highway No. 5 south from Merritt for approximately 25 km. to a point about 5 km. north of Aspen Grove. Here a gravel road leads easterly for about 2.5 km. to the center of the claim block and the area of recent drilling. There is a locked gate at the junction of this road with Highway No. 5, however the key may be obtained from the Douglas Lake Cattle Co.

PHYSIOGRAPHY AND VEGETATION:

The claim block is roughly rectangular (see figure 277-2) and covers an area of gently rolling topography, prominently incised by the north-south trending valley of Quilchena Creek. Total relief is in the area of about 1,000 feet varying from about 2,900 feet a.s.l. in the valley of Quilchena Creek to more than 3,900 feet a.s.l. on some of the ridges around Tule Lake.

The property lies in the interior dry belt and vegetation consists of grassy meadows with scattered clumps of mixed conifers and deciduous trees.

HISTORY:

The property has a long history of exploration which probably dates back to the early 1900's. Two old tunnels were found on the Snowflake claim but there is no record of when they were driven.

From the late 1950's, the property as now constituted, was worked as at least 3 separate claim groups. The area where the current work was performed (Snowflake #7 & Snowflake #10), was staked as the CM Claims in 1965 and acquired by Vananda Explorations Ltd. the following year. A joint venture was signed with Merritt Copper Co. Ltd. in 1967 with this latter company as operator.

Induced polarization and magnetic surveys were performed as well as the drilling of 3 core holes and one percussion hole. Merritt Copper Co. Ltd. reported that a total of 1438 feet of diamond drilling and 420 feet of percussion drilling was completed. None of the records of this work is now available, however, it is reported that drill hole #1 (location uncertain) cut 3 sections which returned significant precious metal values.

Laramide Resources Ltd. optioned the property in 1983 and performed magnetic and induced polarization surveys during the summer of that year. The drilling programme which is the subject of this report was carried out from September to November, 1983.

GEOLOGY AND MINERALIZATION:

The Aspen Grove area lies within a terrain commonly referred to as the Nicola Belt, a eugeosynclinal Upper Triassic island-arc, rock assemblage. Massive andesitic flows and coarse pyroclastics predominate in the central part of the area and a sequence of layered and massive volcanoclastic sediments largely underlies the eastern margin.

The Snowflake property is underlain by a sequence of flows, volcanic fragmentals and related volcanoclastic sediments intruded by several small plugs of monzonite, monzo-diorite and diorite porphyry.

In the area of current drilling there are no outcrops and overburden varies from about 8 to more than 60 meters thick.

In the area drilled, bedrock would appear to consist of a northerly striking, westerly dipping sequence of intermediate flows, tuffs and agglomerates structurally overlain by or in fault contact with dark grey to black clastic sediments.

The volcanics vary from typical Nicola, augite porphyry flows to coarse, monomictic agglomerates. The flow rocks are usually dark greyish green with augite phenocrysts up to 5 mm. long. These flows are usually fairly massive but can grade rapidly into coarse agglomerates with fragments up to 10 cm. across. In places the agglomerates grade into sedimentary conglomerates with minor siltstone or chert layers present from time to time. In other places the flows grade upwards or laterally into poorly bedded greenish, chloritic tuffs.

Although these "greenstones" are relatively fresh in places, there is commonly a weak to moderate propylitic alteration present. This consists of minor to + 10% epidote as stringers and irregular clots, narrow calcite and quartz veinlets and scattered pyrite grains.

Structurally overlying the "greenstone" assemblage is a band of sediments consisting primarily of dark grey to black, frequently graphitic argillite. Intercalated with this argillite are lesser amounts of graywacke, siltstone and fine dense chert. The graphitic argillites frequently contain bands of syngenetic pyrite, sometimes constituting 10 to 15% of the rock.

In some cases the contact between the sediments and volcanics appears to be gradational and elsewhere it coincides with a fault or shear zone. The exact age relationships of both rock types are not known, however it is assumed that the clastic sediments represent a small local basin within a predominantly volcanic terrain.

Mineralization consists of varying amounts of pyrite, much of which, especially in the sediments is probably syngenetic. In a number of places, there are local concentrations of quartz and quartz-calcite stringers which locally (10-40 cm) carry concentrations of pyrite up to 50% of the rock. Minor chalcopyrite and molybdenite are sometimes seen in such stringer zones and galena and sphalerite were seen in two instances. Such stringer zones are usually associated with zones of strong shearing and argillic alteration. Gold mineralization appears to be related to these zones of bleaching and epigenetic sulphide concentrations.

DRILLING PROGRAMME:

A drilling programme was completed on the property during the period September 15 to November 25, 1983. The programme was carried out by Core Enterprises Ltd. of Clinton, B.C., using a Boyles 25A drill rig.

A total of 12 holes were drilled aggregating 995.7 meters. Details of each individual hole are included with the drill logs in appendix A of this report. All drilling was completed with NO wireline equipment. The core was placed in 6 meter long wooden core boxes and logged, split and sampled at the drill site. All core was sampled at 1.5 meter intervals except for areas where recovery was poor. One half of the core was placed in plastic sample bags and shipped to Kamloops Research and Assay Laboratories for gold, silver and copper geochemical analyses. The remainder of the core was back in the core trays and is currently stored in Kamloops.

Drill hole locations are indicated on the appended surface plan (figure 277-3). Four vertical sections were constructed to illustrate the geological interpretation of the various rock types. Gold analyses are shown on the sections and are also included with silver and copper analyses on the drill logs in appendix A of this report.

Respectfully submitted:
KERR, DAWSON & ASSOCIATES LTD.



James M. Dawson
James M. Dawson, P. Eng.
GEOLOGIST.

APPENDIX A

DRILL LOGS

KERR—DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

Vic 51.
Kamloops, B.C.
Phone 374-0544

PROPERTY..... SNOWFLAKE

HOLE No. SF-83-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size NQ

Angle of Hole -45

Claim.....

Section.....

Bearing 265° T

Total Depth 106.98M

% Recovery 85%

Elev. Collar

Latitude

Departure

Sheet No 1 of 13

Logged by J.M. Dawson

Date Begun Sept. 19/83

Date Finished Sept. 23/83

Core Stored At Kamloops

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag	Cu
		0 - 15m casing	5501	15-16.7m	115	1.9	65
15-16m	.6m	Greenish grey to brown, porphyritic typical Nicola volcanic flows; some surface limonitic staining, however rock is relatively unaltered; minor quartz stringers up to .6cm wide at 70° to core axis.	sludge	15-18	280	1.5	67
16-16.4	5cm	Similar to last section					
16.4-18	.7m	Similar to last section; becoming more pervasively limonite stained and ? argillically altered in last .3m section.	5502	16.7-18	45	2.1	66
18-19.5	.3m	Light brownish, intensively limonite stained and slightly to moderately argillically altered volcanics; scattered thin quartz and calcite veinlets.	sludge	18-21.3	30	1.1	129
19.5-20	0	Similar to last section	5503	18-19.8	5	1.3	149

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PROPERTY SNOWFLAKE

HOLE No. SF-83-1

SHEET No. 2 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag	Cu
20-21.3	20cm	Highly altered, friable, light brown sheared Nicola volcanics.	5504	19.8-21.3	20	1.2	153
21.3-22.2	.3m	Moderately altered light brown Nicola volcanics; minor narrow quartz stringers.	5505	21.3-22.8	<5	1.3	29
22.2-23.1	7.6cm	Similar to last section, some narrow zones more friable.	sludge	21.3-24.3	10	.9	95
23.1-24.3	7.6cm	Pale brownish, limonite stained but only slightly altered Nicola volcanics; scattered narrow quartz stringers at 30° to core axis.	5506 5507	22.8-24.3 24.3-25.9	5 <5	.7 .8	37 54
24.3-26.5	10cm	Pale brownish to dark green, relatively unaltered Nicola volcanics; some scattered narrow quartz and calcite veinlets.	sludge	24.3-27.4	5	.7	59
26.5-27.4	45.7cm	Highly altered, limonite stained and friable gouge zone.	5508	25.9-27.4	35	1.8	58
27.4-30.4	25.4cm	Presumably gouge zone from major fault; no core recovery.					
30.4-31	55.8cm	Pale greenish grey, fine grained volcanics?	sludge	27.4-30.4	<5	.9	120

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PROPERTY SNOWFLAKE

HOLE No. SF-83-1

SHEET No. 4 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au (ppb)	Ag	Cu
38.7-39.4	22.8cm	Pale greenish grey to white altered volcanics; minor disseminated pyrite.	sludge	36.5-39.6	35	1.0	153
39.4-39.9	0	Similar to last section; minor narrow veinlets of white quartz.					
39.9-40.5	7.6cm	Similar bleached volcanics; minor disseminated pyrite.					
40.5-40.9	7.6cm	Similar to last section-only trace pyrite.	5515	39.6-41.1	<5	.9	10
40.9-41.4	5cm	Greenish grey to white-altered volcanics; trace pyrite; minor quartz stringers.	sludge	39.6-42.6	10	1.0	70
41.4-41.7	0	Greenish grey volcanics; less altered.					
41.7-42.2	0	Similar to last section; minor f.g. pyrite on some fractures.	5516	41.1-42.6	<5	1.6	14
42.2-42.9	5cm	Light greenish grey silicified volcanics minor disseminated pyrite.					
42.9-44.5	1.2m	Altered zone consisting of clay between quartz stringers nearly parallel to core axis; minor disseminated pyrite.	5517	42.6-44.1	90	1.1	61

KENNEDY & ASSOCIATES LTD. DIAMOND DRILL RECORD

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PROPERTY SNOWFLAKE

HOLE No. SF-83-1

SHEET No. 5 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag	Cu
44.5-45.7	.9m	Presumably similar to last section; mostly rounded pebbles of quartz with disseminations and blebs of pyrite.	5518	44.1-45.7	175	1.4	96
			sludge	42.6-45.7	50	1.9	175
45.7-46.1	12.7cm	Similar to last section-small pebbles of quartz with scattered blebs of pyrite; presumably the clay gouge between stringers is washed away. At end of section a 5c.seam of siliceous material with 30% pyrite.					
46.1-46.6	.4m	All core lost.					
46.6-47.8	0	From 46.6-46.8m possibly some ground pieces from last "lost" section-quartz with 15-20% pyrite and scattered minor chalcopyrite; 46.8-47.8m pale greenish grey, moderately argillically altered Nicola volcanics; scattered minor disseminated pyrite 2.5c quartz stringers at 5° to core axis at end of section.	5519	45.7-47.2	745	10.5	1100
			sludge	45.7-48.7	175	3.2	330
47.8-48.7	10cm	Pale greenish grey altered, argillic and chloritic? volcanics ? cut by many quartz stringers almost parallel to core axis, scattered disseminated pyrite near start of section.	5520	47.2-48.7	40	2.6	206

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PROPERTY SNOWFLAKE

HOLE No. SF-83-1

SHEET No. 7 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag	Cu
54.4-54.8	0	Similar to last section; minor scattered fine grained pyrite.	5524	53.3-54.8	210	1.2	72
54.8-55.4	0	Similar highly altered rock with quartz veins carrying scattered blebs of pyrite running nearly parallel to core axis.					
55.4-55.9	5cm	Similar to last section; 3 minor blebs of chalcopyrite in a .8cm wide quartz stringer; minor scattered pyrite.	5525	54.8-56.3	810	4.6	191
55.9-56.9	0	Similar light green-grey argillically altered, bleached volcanics ?; very little pyrite.	5526	56.3-57.9	45	1.0	56
			sludge	54.8-57.9	100	2.4	166
56.9-57.6	0	Similar grey-white, bleached volcanics. Looks like it was originally an agglomerate; fragments up to 3.8cm in diameter; minor scattered pyrite.					
57.6-58.2	10cm	Similar to last section; core very broken; some quartz veins running down core axis; no pyrite.					
58.2-59.4	0	Light green-grey, fairly massive, hard, slightly bleached agglomerate; rounded fragments up to 5cm. across; few quartz stringers at 5-15° to core axis in first .3m section; trace pyrite on 2 fracture surfaces. This rock is practically unaltered.	5527	57.9-59.4	10	1.0	68

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PROPERTY SNOWFLAKE HOLE No. SF-83-1 SHEET No. 8 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag	Cu
59.4-60.6	0	Light greenish grey, silicified, massive agglomerate	5528	59.4-60.9	5	1.1	89
		or breccia; minor quartz veins run nearly parallel to					
		core axis; no clay alteration; no pyrite.	sludge	57.9-60.9	165	1.6	146
60.6-62.4	0	Polymictic breccia or agglomerate; rounded fragments	5529	60.9-62.4	<5	.9	82
		up to 7-10cm across; colour change from light greenish					
		grey to dark grey and fresher in last.9m section					
		of this run.					
62.4-62.7	0	Dark grey, fresh polymictic agglomerate.	5530	62.4-64	<5	1.1	74
			sludge	60.9-64	250	1.6	141
62.7-63.3	0	Similar to last section					
63.3-64.9	0	Dark grey, fresh agglomerate; minor narrow quartz					
		veinlets at 30° to core axis.					
64.9-65.3	0	Similar to last section; thin chert or mudstone layer	5531	64-65.5	10	1.1	78
		5-7c thick at 65.3m lies at about 60° to core axis;					
		minor pyrite in thin layer parallel to these					
		sediments.	sludge	64-67	125	1.3	115

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PROPERTY SNOWFLAKE HOLE No. SF-83-1 SHEET No. 9 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag(ppm)	Cu(ppm)	
65.3-67	0	Green grey, fresh agglomerate or polymictic; volcanic agglomerate.	5532	65.5-67	15	.9	89	
67-68.5	0	Similar to last section.	5533	67-68.5	10	1.1	86	
68.5-71.3	0	Similar to last section; scattered minor small pyrite blebs.	sludge	67-70.1	95	1.3	146	
			5534	68.5-70.1	20	1.2	97	
			5535	70.1-71.6	10	1.1	86	
71.3-74.3	0	Grey to green-grey polymictic volcanic conglomerate; 12.7cm section from 73.7m - 74.1m with 10-20% blebs and stringers of pyrite.	5536	71.6-73.1	135	.5	192	
			sludge	70.1-73.1	65	1.4	121	
			fire assay 5537	(oz/ton) 73.1-74.6	.035 800	.20 4.7	480	
			sludge	73.1-76.2	1150	4.8	245	
74.3-76.7	0	Similar rock to 74.9 then becoming more bleached and having scattered stringers and blebs of pyrite- scattered quartz veins at 10-30° to core axis; hard, bleached, light grey rock at end of section with 3-5% pyrite as scattered blebs up to .6cm in diameter.	fire assay 5538	(oz/ton) 74.6-76.2	.066 1500	.17 4.9	166	
			fire assay	(oz/ton)	.21	.44		
			5539	76.2-77.7	6800	11.8	141	
			sludge	76.2-79.2	2270	5.0	204	
76.7-78.2	0	Bleached pale greenish grey flow rock ? to 77.3 scattered blebs of pyrite common - 3-5%, 1.2-1.9cm. quartz veinlet with pyrite & calcopyrite at 20° to core axis - @ 76.9m from 77.3 to 78.2, grey green homogeneous flow ? rock with similar disseminated blebs of pyrite; several thin quartz veinlets @ 30° to core axis.	fire assay	(oz/ton)	.011	.06		
			5540	77.7-79.2	260	1.3	130	

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PROPERTY SNOWFLAKE HOLE No. SF-83-1 SHEET No. 10 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag(ppm)	Cu(ppm)
78.2-79.8	0	Green to pale grey green, relatively fine grained homogeneous flow rock with abundant small blebs of pyrite, 2 narrow quartz veins @ 70° to core axis.	5541	79.2-80.7	60	1.0	65
79.8-81.3	0	Pale green to light green grey homogeneous flow rock? as last; similar small blebs of pyrite, one 2.5cm quartz veinlet at 30° to core axis at 81.1	5542	80.7-82.2	75	1.1	88
81.3-83.9	0	f.g. flow or dike rock-partly bleached to light grey to 81.9 From 81.9 to end of section, polymictic agglomerate; mostly volcanic fragments; few scattered blebs and veinlets of pyrite.	5543	82.2-83.8	25	1.5	82
83.9-86.3	10cm.	Green to light grey conglomerate as last; variably bleached; scattered, minor pyrite blebs and stringers; minor quartz veinlets at 45° to core axis.	5544	83.8-85.3	695	5.7	95
86.3-87.4	10cm	Light grey to buff, fine grained, dense altered flow or dike rock; pyrite stringers and blebs common; core very broken; pyrite stringers at 20° to core axis.	5545	85.3-86.8	450	2.1	119

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PROPERTY SNOWFLAKE

HOLE No. SF-83-1

SHEET No. 11 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag	Cu
87.4-87.7	5 cm	Similar bleached, silicified ? rock; not much pyrite here.	sludge	85.3-88.3	1500	6.3	1400
87.7-88.3	25.4cm	Similar to last section; core very broken; shear zone ?	5546	86.8-88.3	180	1.4	87
88.3-89.3	7.6cm	From 88.3-89 fine grained, dense dike or flow rock- as before; 89-89.3 silicified volcanic conglomerate.	5547	88.3-89.9	10	1.1	50
89.3-90.2	0	Green-grey volcanic conglomerate; minor quartz stringers at 30° and 45° to core axis. From 90-90.2m flow rock ?					
90.2-90.5	5cm	Green-grey porphyritic andesite flow; core very broken at start of section.	sludge	88.3-91.4	480	2.8	385
90.5-91.7	0	90.5-90.6m - andesite flow; from 90.6-90.7m bands of fine mudstone and conglomerate; bedding at 50° to core axis; from 90.7-91.7m - conglomerate.	5548	89.9-91.4	<5	1.2	98
91.7-92.2	7.6cm	Similar to last section	5549	91.4-92.9	<5	.9	86
92.2-93.2	25.4cm	Similar to last section					

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PROPERTY SNOWFLAKE

HOLE No. SF-83-1

SHEET No. 12 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag(ppm)	Cu(ppm)
93.2-93.8	0	Similar to last section; 3 to 5% pyrite as stringers and blebs in last 25cm section.	5550	92.9-94.4	<5	1.0	108
			sludge	91.4-94.4	250	2.3	260
			5551	94.4-96	<5	1.1	68
93.8-96.6	0	From 93.8-95.7 similar conglomerate, minor disseminated pyrite; 95.7-96.6 dark grey green flows.					
			sludge	94.4-97.5	140	2.0	190
96.6-97.2	0	Fairly fresh augite porphyry flows, minor pyrite.	5552	96-97.5	<5	1.0	58
97.2-98	0	Similar dark green flows to 97.3m; thence bleached, light green-grey flows, cut by several quartz-calcite stringers; traces of pyrite.					
98-98.7	15.2cm	Mostly grey-green augite porphyry flows.	5553	97.5-99	<5	.9	61
			sludge	97.5-100.5	175	2.0	201
98.7-100.2	7.6cm	Similar to last section; minor hematite staining on some fractures.	5554	99-100.5	<5	1.0	34
100.2-100.8	7.6cm	Similar to last section.					
100.8-101.1	12.7cm	Similar to last section.					
101.1-101.4	0	Similar to last section.	5555	100.5-102.1	<5	.9	44

KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

1 - Victoria
Kamloops, B.C.
Phone 374-0544

PROPERTY SNOWFLAKE

HOLE No. SF-83-2

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size NQ
 Angle of Hole 45°
 Claim.....
 Section.....
 Bearing 080°

Total Depth 93.2 m
 % Recovery 94%
 Elev. Collar.....
 Latitude 3 + 85NW
 Departure 6 + 30SW

Sheet No 1 of 9
 Logged by J.M.D.
 Date Begun Sept. 29/83
 Date Finished Oct. 3/83
 Core Stored At Kamloops

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au ppb	Ag ppm	Cu ppm
		Hole Cased to 22.8m.					
meters							
22.8-23.4	0	Medium grained, green grey typical Nicola andesite flows; minor quartz veining; no sulphides; minor sedimentary layers 2-5 cm thick.					
23.4-24	0	Primarily greenish Nicola andesitic flows scattered disseminated pyrite.	5559	22.8-24.4	50	1.2	59
24-24.4	5 cm	Similar to last section; minor quartz veining approximately parallel to core axis; minor disseminated pyrite.					
24.4-25.6	30 cm	Similar to last section; no pyrite	5560	24.4-25.9	5	1.0	105
25.6-25.9	0	Similar to last section; minor scattered pyrite					
25.9-27.1		Similar typical Nicola greenstone-traces pyrite	5561	25.9-27.4	5	.8	55

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PROPERTY Snowflake

HOLE No. SF-83-2

SHEET No. 2 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au(ppb)	Ag(ppm)	Cu(ppm)
27.1-27.8	5 cm	Similar to last section					
27.8-28.3	0	Similar greenstone; becoming more fractional toward end of section.	5562	27.4-28.9	20	.9	69
28.3-29.2	25 cm	Highly fractured fine grained andesite					
29.2-29.8	0	Fractured andesite flow or tuff for first section then less broken green grey andesite tuff with 1 or more bands (2-5 cm wide) of green dense chert @ ~ 65° to core axis; minor disseminated pyrite.					
			5563	28.9-30.4	20	.9	220
29.8-30.4	20 cm	Green grey andesite flows of ? tuffs					
30.4-30.7	5 cm	Fine grained andesite flow or ? tuff					
30.7-32	0	Green grey andesite tuff with several narrow interbeds of fine greenish cherty mudstone; 60-70° to core axis.	5564	30.4-32	5	.8	104
32-33.2		Medium to fine grained andesite flows or ? tuffs; minor quartz stringer; minor epidote clots & veinlets.					
			5565	32-33.5	5	.8	55

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PROPERTY Snowflake

HOLE No. SF-83-2

SHEET No. 3 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
33.2-33.8.	0	Highly fractured green grey andesite tuff ?	5566	33.5-35	5	.9	59
33.8-35.6.	0	Andesite tuff grading to medium to coarse green grey volcanic wacke; fragments up to 2-5 cm across, tracer pyrite.	5567	35-36.5	10	.8	80
35.6-37.4	0	Green grey coarse volcanic wacke; minor scattered pyrite; fairly solid, relatively unaltered core.	5568	36.5-38.1	35	.8	91
37.4-40.5	0	Green grey volcanic wacke or agglomerate; fragments to 2-5cm diameter; 2 cm quartz vein runs down core axis from 39.3 to 40.3 m, scattered grains of pyrite ~ this quartz vein; minor chalcopyrite @ ~ 130° pyrite stringers	5569	38.1-39.6	40	1.9	173
			5570	39.6-41	60	1.9	363
			5571	41-42.6	20	.9	128
40.5-43.2	0	Similar green grey agglomerate or volcanic wacke; minor scattered pyrite grains.	5572	42.6-44.1	5	.9	99
43.2-44.5		Similar to last section; minor quartz vein at 45° to core axis.					
44.5-46		Similar to last section; core very broken in last 20cm section.	5573	44.1-45.7	5	.9	101
46-46.4	0	Similar green grey chloritic fragmental agglomerate or ? wacke.					

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PROPERTY Snowflake HOLE No. SF-83-2 SHEET No. 4 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
46.4-48.1	0	Green grey fine grained andesite with some agglomerate horizons; some stringers and small blebs of epidote.	5574	45.7-47.2	5	.8	149
48.1-49.6	7.6 cm	Grey green fine to medium grained andesite; trace pyrite.	5575	47.2-48.7	10	.9	132
49.6-50.5	50.8 cm	Medium to fine grained green grey andesite slightly porphyritic in part; minor greenish chert interbeds.	5576	48.7-50.2	<5	.8	25
50.5-50.9	0	Fine grained grey green andesite.					
50.9-51.2	5 cm	Similar to last section					
51.2-51.6	35.5 cm	Similar to last section	5577	50.2-51.8	<5	.8	46
51.6-52.1	17.7 cm	Similar to last section					
52.1-52.5	25.4 cm	Similar to last section					
52.5-53.3	5 cm	Green grey slightly porphyritic andesite flows	5578	51.8-53.3	<5	.8	60
53.3-54.2	40.6 cm	Fault zone - gouge cemented by clacite from 53.9-54.2 m.					

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PROPERTY Snowflake HOLE No. SF-83-2 SHEET No. 5 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
54.2-54.5	10 cm	Green grey, fine grained andesite flows					
			5579	53.3-54.8	< 5	.9	28
54.5-55.4	0	Green grey, fine to medium grained andesite, slightly porphyritic in part.					
55.4-56.3	15.2 cm	Green grey andesite; fragmental in part	5580	54.8-56.3	5	1.0	94
56.3-56.9	10 cm	Green grey andesite; slightly porphyritic in part.					
56.9-57.6	0	Similar to last section					
			5581	56.3-57.9	5	1.1	78
57.6-58.5	0	Similar to last section					
			5582	57.9-59.4	< 5	.9	71
58.5-60		Green grey andesite tuff with several narrow chert bands (light green) at $\sim 45^\circ$ to core axis.	5583	59.4-60.9	< 5	.8	56
60-61.8	0	Greenish andesite tuff with frequent narrow .6 cm to 10 cm bands of cherty mudstone - 70 to 85° to core axis; minor scattered pyrite.					
61.8-63	0	Minor green andesite tuff with 70% cherty mudstone and dark grey to black graphitic argillite; disseminated pyrite locally up to 2%.					

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PROPERTY Snowflake HOLE No. SF-83-2 SHEET No. 7 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
71.9-72.2	15 cm	Similar to last section					
72.2-73.1	0	Primarily black graphitic argillite with scattered grains and thin bands of pyrite. Minor siltstone interbeds @ 45° to core axis.	5591	71.6-73.1	10	1.3	106
73.1-74	20 cm	Similar to last section	5592	73.1-74.6	< 5	1.5	129
74-74.9		Black graphitic argillite with frequent bands and scattered grains of pyrite. 3-5% pyrite; bedding at 75° to core axis.	5593	74.6-76.2	< 5	1.2	135
74.9-76.8	0	Similar to last section.					
76.8-77.7	0	Similar to last section; minor quartz, calcite veining - 3-5% pyrite.	5594	76.2-77.7	5	1.5	116
77.7-78.3	20 cm	Black graphitic argillite; only minor pyrite.					
78.3-78.9	30 cm	Similar to last section; minor fine grained disseminated pyrite.					
78.9-79.2	7.6 cm	Black, cherty argillite; fine grained blebs of pyrite spread through rock - 3-5% pyrite.	5595	77.7-79.2	20	2.0	158

PROPERTY Snowflake

HOLE No. SF-83-2

SHEET No. 8 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
79.2-79.7	10 cm	Similar to last section; pyrite looks syngenetic; bedding at 75° to core axis.					
79.7-80.4	0	Similar to last section	5596	79.2-80.7	30	2.0	158
80.4-81	7.6 cm	Similar to last section					
81-81.3	0	Similar to last section					
81.3-81.8	0	Similar to last section					
81.8-82.2	7.6 cm	Black graphitic argillite; minor fine grained disseminated pyrite	5597	80.7-82.2	10	1.9	155
82.2-82.9	0	Similar to last section; 2% pyrite as very fine disseminated grains.					
82.9-83.5	0	Similar to last section	5598	82.2-83.8	10	1.8	170
83.5-84.1	0	Similar to last section; minor silty horizons and pyrite grains.					
84.1-84.4	0	Similar black cherty argillite with 2-3% pyrite as fine scattered grains.					

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PROPERTY Snowflake HOLE No. SF=83-2 SHEET No. 9 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
84.4-85.3	15 cm	Similar to last section; thin silty bands @ 40° to core axis.	5599	83.8-85.3	< 5	2.0	123
85.3-85.6	0	Similar to last section					
85.6-85.9	7.6 cm	Similar to last section					
85.9-86.5	35 cm	Similar to last section					
			5600	85.3-86.8	< 5	1.7	132
86.5-87.1	0	Similar to last section					
87.1-87.7	0	Similar to last section					
87.7-88.3	0	Similar to last section	5601	86.8-88.3	< 5	1.4	135
88.3-89.9	0	Dark grey to black graphitic argillite; scattered quartz grains and stringers; <1% pyrite; minor calcite stringers.	5602	88.3-89.9	< 5	1.4	110
89.9-92	0	Dark grey to black graphitic argillite; calcite stringers more common; minor pyrite.	5603	89.9-92	< 5	1.8	102
92-93.2	30.4 cm	Fault zone - core lost - bad coring					
		END OF HOLE					

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PROPERTY.....Snowflake.....

HOLE No.SF-83-3.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
76.2 m.	-47°	

Core SizeN.Q......
 Angle of Hole-45°.....
 Claim.....
 Section.....
 Bearing265°T.....

Total Depth93.57 m......
 % Recovery95%.....
 Elev. Collar
 Latitude3. + 85NW.....
 Departure6. + 30SW.....

Sheet No1..... of8.....
 Logged byJ.M.S......
 Date BegunOct. 6/83.....
 Date Finished
 Core Stored AtKAMLOOPS.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au ppb	Ag ppm	Cu ppm
		Overburden to 19.5 m.					
meters							
19.5-22.2	0	Typical grey green fresh Nicola porphyritic flows; feldspar phenocrysts up to 4 mm. long; scattered interstitial epidote; minor accessory pyrite.	5604	19.5-21.3	5	1.3	79
			5605	21.3-22.8	5	1.2	56
22.2-25.2	0	Similar Nicola andesite flows; epidote common as stringers and small blebs; minor scattered pyrite grains.	5606	22.8-24.3	<5	1.1	106
25.2-25.9	7.6 cm	Pale grey to green grey andesite flows; epidote common as stringers and blebs.	5607	24.3-25.9	<5	1.1	47
			5608	25.9-27.4	<5	1.2	73
25.9-28.9	0	From 25.9-27.4m - similar flows with scattered epidote; 27.4-28.9 becoming agglomerate - frequent epidotized fragments; minor scattered accessory pyrite.	5609	27.4-28.9	<5	1.3	116
			5610	28.9-30.4	<5	1.1	86
28.9-32	0	Dark green grey andesitic agglomerate; some granitic fragments; frequent epidote as stringers and blebs - 5-7%.	5611	30.4-32	<5	1.1	101

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PROPERTY SNOWFLAKE

HOLE No. SF-83-3

SHEET No. 4 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
54.2-55.3	7.6 cm	Dark grey green andesite with frequent scattered blebs of epidote.					
55.3-55.4	0	Similar to last section.					
55.4-56	5 cm	Similar to last section.	5627	54.8-56.3	5	1.1	63
56-56.6	12.7 cm	Similar to last section.					
56.6-57.6	10 cm	Similar to last section.	5628	56.3-57.9	5	1.1	101
57.6-58.2	17.7 cm	Green grey, fine grained andesite flows; no epidote; core very broken.					
58.2-58.8	0	Similar to last section.					
58.8-59.4	0	Similar to last section; minor scattered epidote blebs.	5629	57.9-59.4	< 5	1.1	79
59.4-60	7.6 cm	Similar to last section.					
60-60.6	0	Similar to last section.	5630	59.4-60.9	< 5	1.0	51
60.6-61.2	25.4 cm	Similar green grey andesite-core highly broken.					
61.2-61.8	0	Green grey andesite-fairly fresh with scattered circular blebs of epidote.					

KERR-DAWSON ASSOCIATES LTD DIAMOND DRILL RECORD

Suite 206 - 310 Nicola St
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Phone 374-0544

PROPERTY SNOWFLAKE

HOLE No. SF-83-4

SHEET No. 2 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
32.3-33.8	15.2 cm	Greenish, fine grained porphyritic Nicola andesitic flow with abundant epidote (propylitic alteration). Core is quite broken and locally limonitic on fractures. Quartz \pm calcite veinlets up to 0.5 cm. @ 30° to 60° to core axis. Sulphide content < 2% generally.	5655	32-33.5	5	1.9	89
33.8-35	.6 m	Similar to last section except very few quartz stringers. Core very broken.	5656	33.5-35	< 5	1.0	40
35-35.6	15.2 cm	Similar to last section except core not as broken up. Epidote still quite common.					
35.6-36.8	15.2 cm	Green, fine grained, more massive, propylitically altered Nicola andesite. Shows relic porphyritic texture. Occasional hairline quartz veinlets noted - generally less than 0.2 cm. wide. Some fractures show hematite \pm limonite alteration. Sulphides generally less than 1-2%.	5657	35-36.5	< 5	.7	19
36.8-38.4	15.2 cm	Similar to last section	5658	36.5-38.1	< 5	1.0	24
			5659	38.1-39.6	5	.5	30
38.4-41.1	0	Similar to last section (Core less broken)	5660	39.6-41.1	< 5	.8	24
41.1-42.9	< 15 cm	Similar to last section	5661	41.1-42.6	< 5	.5	45
			5662	42.6-44.1	< 5	.8	28

KERR-DAWSON & ASSOCIATES LTD. DIAMOND DRILL RECORD

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PROPERTY SNOWFLAKE

HOLE No. SF-83-4

SHEET No. 3 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu	
42.9-46	0	Similar to last section, Core quite solid, less fractured. Stringers of quartz \pm epidote locally common, generally 45° - 65° to core axis.	5663	44.1-45.7	5	.8	29	
			5664	45.7-47.2	< 5	.8	41	
46-47.8	0	Similar to last section except rock becoming bleached looking, siliceous @ 46.6-46.8 m. and 47.2 to 47.8 m. Relic porphyritic texture still present. Slickensides noted @ 47.5 m.(30° to core axis) Quartz stringers also @ 30° to core axis.	5665	47.2-48.7	< 5	.8	31	
47.8-50.9	0	Light to medium green, massive, fine grained porphyritic Nicola andesite flow. Epidote still quite common. Quartz stringers quite common - from hairline to 0.75 cm. wide. Vast majority of stringers < 30° to core axis (C.A.). Some stringers commonly associated with hematite. Quartz \pm hematite stringers most common between 47.8-49.3 m. More massive andesite from 49.3 to 50.9 m.	5666	48.7-50.2	< 5	.5	29	
			5667	50.2-51.8	5	.5	39	
50.9-52.7	15.2 cm	Green, fine grained massive Nicola andesite. Weak porphyritic texture present. Epidote still pervasive. Fine quartz stringers still present but not intense.	5668	51.8-53.3	< 5	.6	32	

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206 - Nicola
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Phone 374-05

PROPERTY SNOWFLAKE

HOLE No. SF-83-4

SHEET No. 4 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
52.7-54.8	0	Similar to last section	5669	53.3-54.8	< 5	.4	32
54.8-57.3	< 15 cm	Similar to last section. Few quartz stringers still present, @ 30-45° to core axis.					
		Sulphides scarce. Epidote pervasive.	5670	54.8-56.3	< 5	.6	25
57.3-58.5	15.2 cm	Similar to last section but more broken especially between 57.3-57.6 m. - possible shear zone ? Another crumbly section (shear) @ 58.2-58.5 m. Hematitic gouge noted on some surfaces (30° to core axis).	5671	56.3-57.9	30	.6	105
58.5-61.2	45.7 cm	Green, massive, fine grained Nicola andesite with usual epidote alteration of feldspars and groundmass, with exception of minor quartz [±] hematite fracture surfaces, this rock is much like preceding sections. Quartz [±] hematite stringers generally rare and usually @ 30 to 45° to core axis.	5672	57.9-59.4	< 5	.5	116
			5673	59.4-60.9	< 5	.6	68
61.2-62.1	15.2 cm.	Similar to above section	5674	60.9-62.4	< 5	.6	20

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206 Nicola
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Phone 374-05

PROPERTY SNOWFLAKE

HOLE No. SF-83-4

SHEET No. 5 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
62.1-64	.6 m	Pale green, variably bleached and siliceous altered andesite. Quartz veining quite common with most prominent veinlets @ 5-15° to core axis. Locally abundant very fine grained pyrite - average content probably 1 - 2% [±] . Some evidence of shearing evidenced by slickensides on edge of veins @ 63 m.	5675	62.4-64	< 5	.6	28
64-64.6	.3 m	Green, fine grained, massive, propylitically altered andesite, similar to those above. 64 - 64.3 m. is pale gray bleached material noted in last section with small clots of fine grained pyrite.	5676	64-65.5	< 5	.8	121
64.6-65.5	15.2 cm	Typical green, fine grained Nicola andesite - still shows abundant epidote, weak to moderate porphyritic texture. Quartz veinlets < 1mm. to 5 mm. at 30 to 45° to core axis.	5677	65.5-67	< 5	.8	38
65.5-66.7	15.2 cm	Similar to last section.					
66.7-68.2	0	Similar to last section	5678	68-68.5	< 5	.8	44

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Unit 206 - 370 Nicola
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PROPERTY SNOWFLAKE HOLE No. SF-83-4 SHEET No. 6 of 8

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
68.2-70.7	15.2 cm	Similar to last section - quartz [±] calcite stringers and veinlets still present - locally moderately abundant, generally @ 30-45° to core axis. Sulphide content low <1%.	5679	68.5-70.1	< 5	.7	56
70.7-73.7	0'	Similar to last section - andesite shows good porphyritic texture in places.	5680	70.1-71.6	5	.8	68
			5681	71.6-73.1	< 5	.7	93
73.7-76.2	30 cm	Similar to last section - epidote still pervasive	5682	73.1-74.6	< 5	.7	108
			5683	74.6-76.2	5	1.1	109
76.2-78	0	Similar to last section.	5684	76.2-77.7	< 5	.7	22
78-79.5	< 15 cm	Similar to last section. Weakly bleached and sheared @ 78.7 - 79.2 m.	5685	77.7-79.2	< 5	.6	17
79.5-80.1	15.2 cm	Similar to last section. Core more broken and showing signs of minor shearing.	5686	79.2-80.7	5	.6	5
80.1-81.9	45.7 cm	Similar to last section.	5687	80.7-82.2	< 5	.6	9
81.9-83.2	30 cm	Similar to last section; 82.6 - 83.2 m crumbly - gougy (?) zone with moderately abundant quartz veining. Quartz-hematite veins @ 82.6 - 82.7 m. @ 60° to core axis.	5688	82.2-83.8	< 5	1.1	11

KERR-DAWSON & ASSOCIATES LTD. - DIAMOND DRILL RECORD

1 Vic St.
Kamloops, B.C.
Phone 374-0544

PROPERTY..... SNOWFLAKE.....

HOLE No. SF 83-5.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size NQ.....
 Angle of Hole -45°.....
 Claim.....
 Section.....
 Bearing 265° Az.....

Total Depth 64.6 m.....
 % Recovery 68%.....
 Elev. Collar
 Latitude 4. + 51NW.....
 Departure 3 + 89SW.....

Sheet No 1 of 3
 Logged by W. Gruenwald
 Date Begun Oct. 18/83
 Date Finished Oct. 20/83
 Core Stored At

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Auppb	Agppm	Cu. ppm
0-24.3 m.		Casing					
24.3-27.4	3 m.	O.B. (?)					
27.4-30.4	1.5 m.	Started coring brown gray, clay rich mud (?) containing small fragments of volcanic, & sedimentary rock.	5696	27.4-30.4	< 5	.7	48
30.4-32.6	1 m.	Similar to last section-rock fragments locally up to 1 cm. across.	5697	30.4-33.5	< 5	.7	45
32.6-33.8	.6 m	Similar to last section, rock (?) appears to be much like varved clay (-ie lake bottom sediment) - possible bedding @ 45° to core axis, indicating probable flat lying clay rich sediments.					
33.8-35.6	.6 m	Similar to last section - becoming dark gray "claystone" @ 35.3 m.					
35.6-36.8	.6 m	Similar to last section - dark gray clay.	5698	33.5-36.5	< 5	.9	48

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PROPERTY SNOWFLAKE

HOLE No. SF 83-5

SHEET No. 3 of 3

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Al	Ag	Cu
57.3-58.2	.6 m	Similar to last section. Very poorly sorted sediment.					
58.2-60.9	1.2 m	Brown, varved (?) clay zone. Fewer rock fragments noted. Very definite bedding noted @ 60.6 m. @ 60°-65° to core axis. 60.6 - 60.9 m. - back into poorly sorted sediment.	5731	57.9-60.9	5	.3	42
60.9-61.5	.4 m	Similar to last section. Large pebbles > 3cm across. Clay to sandy matrix.					
61.5-63.3	1.5 m	Mixed coarse grained, poorly sorted, non stratified sediment and varved clay. End of section into sandy sediment with abundant rock fragments.					
63.3-64	.4 m	Only few volcanic pebbles recovered - rest washed away.	5732	60.9-64.6	< 5	.8	58
64-64.6	.4 m	Similar to last section - only pebbles left. Sandy unconsolidated matrix washed away since 63.3 m.					
		END OF HOLE					

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PROPERTY..... SNOWFLAKE.....

HOLE No. SF 83-6.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size N.Q.
 Angle of Hole -45°
 Claim.....
 Section.....
 Bearing 265° Az

Total Depth 33.5 m.
 % Recovery 89%
 Elev. Collar.....
 Latitude 6 + 07NW
 Departure 5 + 10SW

Sheet No 1 of 2
 Logged by..... W. Gruenwald
 Date Begun..... Oct.21/83
 Date Finished Oct.23/83
 Core Stored At

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au ppb	Ag ppm	Cu ppm
0-21.3 m.		Casing					
21.3-22.2	.4 m	Dark gray to black graphitic argillite with clots and stringers of fine grained pyrite. Evidence of slickensides common often @ 5-20° to core axis.	5733	21.3-22.8	15	2.0	110
		At 22 m. - 1/2 cm. wide pyrite bed @ 5° to core axis. Some brecciation noted @21.9-22.2 with quartz infilling.					
22.2-22.8	15.2 cm	Similar to last section - still noting pyritic beds and quartz stringers @ 5-10° to core axis.					
22.8-24	.7 m	Similar to last section.	5734	22.8-24.3	5	2.7	158
24-24.6	15.2 cm	Similar to last section.	5735	24.3-25.9	5	1.0	140
24.6-25.9	.4 m	Similar to last section.	5736	25.9-27.4	5	2.0	160
25.9-26.5	0	Similar to last section. Pyritic beds @ 26 m. @ 5-6° to core axis.					

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
27.1-27.7	45.7 cm	Similar to last section - core very broken, fine grained pyrite $\geq 3-5\%$					
27.7-28.3	45.7 cm	Similar to last section-few pieces recovered show abundant quartz-carb. stringers from hairline to 0.5 cm. wide @ 45° to 70° to core axis and random attitudes.	5744	27.4-28.9	30	.7	100
28.3-29.2	60.9 cm	Dark gray, fine grained, very hard argillite. Very few quartz-carb. stringers in this section. Pyrite content lower $\geq 2\%$.					
29.2-30.1	60.9 cm	Similar to last section - very broken.	5745	28.9-30.4	30	.8	140
30.1-31	76.2 cm	Similar to last section-only fragments of dark grey argillite recovered.					
31-32	76.2 cm	Similar to last section					
32-32.9	60.9 cm	Similar to last section-locally intense quartz \pm carb. veinlets - pyrite $2-3\%^\pm$.	5746	30.4-32	< 5	1.0	120
32.9-33.5	45.7 cm	Similar to last section-only fragments recovered.	5747	32-33.5	10	1.0	156
33.5-34.4	30.4 cm	Similar to last section-most of section is argillitic mud & sand.	5748	33.5-35	10	1.2	150

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PROPERTY SNOWFLAKE

HOLE No. SF-83-7

SHEET No. 3 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
34.4-34.7	0'	Dark gray, brittle argillite with fine grained disseminated pyrite 2-3%.					
34.7-35.9	15 cm	Similar to last section, few quartz ⁺ carb. stringers noted @ 10° to 30° to core axis. Small brecciated veinlet @ 35 m. (1.5 cm. wide).	5749	35-36.5	< 5	1.9	244
35.9-37.1	30.4 cm	Similar to last section.	5750	36.5-38.1	< 5	1.6	197
37.1-37.7	15 cm	Similar to last section.					
37.7-38.4	30.4 cm	Similar to last section-Core very broken. Showing occasional graphite.					
38.4-39	30.4 cm	Similar to last section, scattered quartz ⁺ carb. stringers, generally 15° to 30° to core axis. Sulphide content <2%. Core still very broken.	5751	38.1-39.6	< 5	1.5	184
39-39.3	20 cm	Dark gray, brittle, broken argillite, minor pyrite and occasional quartz ⁺ carb. stringers.					
39.3-40.8	45.7 cm	Similar to last section, core very broken	5752	39.6-41.1	< 5	1.5	165
40.8-42	30.4 cm	Similar to last section	5753	41.1-42.6	< 5	1.4	147

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HOLE No. SF-83-7

SHEET No. 5 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
49.6-49.9	15.2 cm	Argillite-sandstone (?), core fragments only recovered.					
49.9-50.5	30.4 cm	Broken argillite-sandstone. Noted definite brecciation of argillite @ 50 m. This is probably brecciation of sediment in early stages of consolidation.					
			5758	50.2-51.8	35	.8	68
50.5-51.2	30.4 cm	Similar to last section-very broken					
51.2-52.1	60.9 cm	Light gray, coarser sediments. Little or no argillite. Core very broken, few quartz ⁺ carb. stringers noted.					
52.1-52.7	30.4 cm	Similar to last section.	5759	51.8-53.3	25	4.7	178
52.7-53.6	60.9 cm	Similar to last section-some small scale faulting noted of sedimentary laminae @ 52.8 m.					
53.6-54.2	15.2 cm	Pale gray green, fine grained siltstone → sandstone(?) with locally abundant quartz stringers often < 30° to core axis.	5760	53.3-54.8	20	.8	38
54.2-55.4	76.2 cm	Similar to last section. Fine grained, disseminated pyrite locally up to 3-4% (at 55.3 m). Fragmental sedimentary texture noted in places where fragments of dark gray argillite stand out in pale green matrix.	5761	54.8-56.3	60	1.1	62

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HOLE No. SF-83-7

SHEET No. 9 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
73.7-74.3	15.2 cm	Similar to last section.					
74.3-75.5	30.4 cm	Similar to last section except breccia texture not as well defined.	5773	74.6-76.2	35	1.1	110
75.5-76.5	15.2 cm	Similar to last section.					
76.5-77.1	15 cm	Pale green, weakly bleached andesitic (?) volcanic. Quartz carb. veinlets relatively common. Rock appears quite coarse grained (brecciated?).	5774	76.2-77.7	60	1.1	57
77.1-78	0	Pale green-gray, fine grained relatively unaltered andesite tuff (flow ??).					
78-79.5	15.2 cm	Similar to last section. Sulphides generally < 2%. Core quite broken. Quartz ⁺ gypsum + carb. veinlets locally quite common.	5775	77.7-79.2	20	1.0	107
79.5-80.1	30.4 cm	Pale gray, medium grained feldspar rich "dyke" or possibly another localized breccia zone. Feldspar fragments up to 2-3mm.	5776	79.2-80.7	35	.8	45
80.1-80.7	15.2 cm	Pale green-gray, medium grained, weakly bleached (?) andesitic tuff.					

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
80.7-82.6	30.4 cm	Pale green-gray fine grained andesitic tuff. Quartz-carb stringers scattered throughout @ random orientation. Sulphides (pyrite) generally <2%.	5777	80.7-82.2	5	.6	29
82.6-84.4	0'	Pale green-gray, fine grained andesite tuff intercalated with finely laminated dark gray cherty siltstone beds. Appear to be drilling along the bedding plane. From 82.9 to 84.4 m. random quartz-carb. stringers up to 2-3mm. found throughout. Pyrite, disseminated 1-3%. Small displacement faults seem to offset darker laminae in numerous places.	5778 5779	82.2-83.8 83.8-85.3	10 <5	.9 .7	45 38
84.4-84.7		Similar to last section except only pebbles recovered					
84.7-86.2	15.2 cm	Similar to last section-better recovery. Fine grained pyrite-disseminated 1-2%.	5780	85.3-86.8	5	.7	42
86.2-87.1	15.2 cm	Similar to last section. Still noting prominent dark gray laminae. These darker laminae are often the more pyritic units.					
87.1-89.6	30.4 cm	Similar to last section except bleached and weakly siliceous from 87.7 to 88 m. Randomly oriented quartz-carb. stringers found throughout-locally abundant.	5781 5782	86.8-88.3 88.3-89.9	5 5	.6 .8	43 32

PROPERTY SNOWFLAKE

HOLE No. SF-83-7

SHEET No. 11 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
89.6-90.2	30.4 cm	Similar to last section. Core quite broken.					
90.2-91.7	30.4 cm	Admixture of pale green-gray fine grained andesitic tuffs and darker gray sediments or volcanoclastics. Evidence of locally intense faulting and shearing. Shear/quartz-carb. vein zone @ 91.5 m. @ 20° to c.a.	5783	89.9-91.4	30	.8	36
91.7-93.2	30.4 cm	Pale green fine grained andesitic tuff. Crumbly (sheared) bleached & veined from 92.3-92.6m. Sulphide content generally ≤ 1-2%.	5784	91.4-92.9	5	.8	27
93.2-94.7	15.2 cm	Admixture of pale green, fine grained andesitic tuffs and darker gray fine grained volcanoclastics. Bedding or laminae appears @ near 0° to core axis. Intense quartz-carb veining (brecciation) @ 94.6 to 94.7 m.	5785	92.9-94.4	5	.7	35
94.7-96.9	15.2 cm	Similar to last section. Intense quartz-carb veining from 94.9 to 95.5 m. In same section can see distinct microfault offsets of darker laminae. Some of veining is contemporaneous with late stage faulting. Veinlets (qtz-carb) often @ 45-60° to core axis, although randomly oriented veinlets are also common.	5786 5787	94.4-96 96-97.5	20 < 5	1.0 .9	45 40

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HOLE No. SF-83-7

SHEET No. 12 of 13

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Al	Ag	Cu
96.9-97.5	15.2 cm	Similar to last section					
97.5-100	15.2 cm	Similar to last section. Still appear to be drilling along bedding planes. Quartz-carb veining locally intense @ 97.9 m; 99.6 m. fine grained pyrite disseminated throughout, generally 1%.	5788	97.5-99	20	.8	52
			5789	99-100.5	265	.8	55
100-101.8		Similar to last section. Fairly intense quartz-carb veining and locally brecciated from 100 to 101 m. Microfault offsets of darker laminae noted. Drusy quartz @ 100.8-101.4 m. along with pale pink alunite(?) Vein here is drusy and approx. 2 cm. wide. Pyrite content increasing to 2-3%. Up to 5% from 101.4 to 101.8 m.	5790	100.5-102	60	1.1	48
101.8-104.2	0	Admixture of pale green-gray fine grained andesitic tuff, darker gray sediments (cherty) & light brown-gray bleached tuffs. Ordinary green-gray tuffs predominate. Quartz-carb. veinlets not intense but scattered throughout @ 30-65° to core axis. Small pyritic gouge zone @ 103.6 m @ 40° to core axis. 104.2 m. slickensides noted @ 30° to core axis	5791	102-103.6	110	1.0	96
			5792	103.6-105	30	1.0	20

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
104.2-106.6	15.2 cm	Pale green-gray, fine grained andesitic tuffs with minor darker gray cherty bands. 104.2-104.8 pale brown-gray almost silicified zone. 104.8-105.7 regular andesite tuff. 347-349.5'-pale gray medium-coarse ground tuff(?) bounded by fault gouge @ 106.5 m @ 45° to core axis.	5793	105-106.6	20	1.0	72
106.6-107.2	30.4 cm	Light green, very fine grained intercalated cherty andesite tuff and dark gray cherty bands. Laminae 5-10° to core axis. Pyrite 4%	5794	106.6-108.2	220	1.0	55
107.2-108.5	15.2 cm	Similar to last section except 107.7 - 108.5 m. is quite pyritic. Massive pyritic quartz-carb veins @ 107.7 - 108 m. Both fine & coarse veinlets and veins are pyritic. 108-108.5 disseminated pyrite in andesitic tuff (5-6%).					
108.5-109.7	15 cm	Similar to last section. Intercalated light green andesitic tuff and darker gray seds.(?). Pyrite content highly variable. Darker laminae (bedding) at 109.5 m. @ 5° to core axis. Small patch of semi-massive, granular pyrite in last 15.2 cm.	5795	108.2-109.7	180	1.6	52
		END OF HOLE					

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PROPERTY SNOWFLAKE

HOLE No. SF-83-8

SHEET No. 2 of 10

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
15.2-16.4	45.7 cm	Similar to last section, becoming more coarsely fragmental. Sedimentary & volcanic fragments up to 3 cm. across.	5799	15.2-16.7	< 5	1.2	116
16.4-18.5	0	Intercalated pyritic argillite @ 15.3-15.4 m. @ 60° to core axis. Another argillite bed @ 15.8 m. @ 30° to core axis. Pyrite disseminated throughout from 2-3%. Few quartz-carb. stringers @ 30-45° to core axis..	5800	16.7-18.2	< 5	1.1	118
18.5-20.1	0	Similar to last section. Coarse gray wacke to 18.7 m. Moderately quartz-carb. veined argillite and arenaceous sediments from 18.7-20.1 m.	5801	18.2-19.8	< 5	1.0	92
20.1-21.6	0	Dark gray, massive, hard weakly pyritic argillite & minor fine grained wacke. Disseminated pyrite 2-3% ±. Crumbled zone @ 21.4-21.6 m. (possible fault?) Bedding planes @ 30-40° to core axis. Some pyritic argillite noted @ 21.3 m.	5802	19.8-21.3	< 5	1.0	82
21.6-23.4	0	Similar to last section. Distinct bedding @ 35° to core axis. 21.6-22.2 m. some pyrite is bedding controlled. 21.6-21.8 crumbled zone with abundant quartz veining & 4-6% ± pyrite.	5803 5804	21.3-22.8 22.8-24.3	< 5 < 5	1.0 .6	107 70

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 HOLE No. SF-83-8

 SHEET No. 4 of 10

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu	
32.6-33.5	15.2 cm	Similar to last section - core quite broken. Bedding at 45° to core axis.						
33.5-34.7	15.2 cm	Mixed dark gray, variably bedded argillite and minor light gray arenaceous rock & or fine grained gray wacke. 34-34.7 m. quartz ⁺ carb. veining quite common and disseminated pyrite (4-5%)	5811	33.5-35	20	1.2	92	
34.7-35.3	45.7 cm	Dark argillite pebbles recovered.						
35.3-37.1	76.2 cm	Dark gray, soft, quartz ⁺ carb. rich graphitic argillite-shear zone. Core is quite soft and crumbly. Abundant evidence of slickensides and brecciation. Qtz-carb. veining is weak. Pyrite ~2-3%	5812 5813	35-36.5 36.5-38.1	55 50	1.5 1.2	178 85	
37.1-38.1	45.7 cm	Similar to last section. Crumbly-sheared graphitic argillite.						
38.1-38.4	15.2 cm	Harder bedded argillite fragments-appear to be out of fault/shear zone.						
38.4-39.3	15.2 cm	Dark gray, more massive, brittle argillite. Pyrite disseminated and in quartz ⁺ carb. veinlets. Pyrite from 2-5%. Bedding @ 30° to core axis. Qtz veining weak.	5814	38.1-39.6	50	1.6	154	

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
39.3-40.8	0	Similar to last section-hard brittle, semi siliceous argillite. Abundant pyrite from 40 - 40.8 m (5-6%)	5815	39.6-41	100	1.6	249
		40.6 m. Quartz-carbonate breccia zone.					
40.8-42	15.2 cm	Dark gray variably graphitic and broken argillite	fire assay	(oz/ton)	.066	1.13	
		40.8 - 41.1 m. abundant quartz-pyrite veins and breccia infillings. Small shear zone @ 41.4. Carb content low	5816	42-42.6	2040	> 20.0	300
42-43.8		Dark gray, well bedded variably pyritic argillite. Few quartz ⁺ -carb. veinlets noted-generally 45° to core axis. Bedding laminae @ 30-35° to core axis.	fire assay	(oz/ton)	1.05	12.0	
		41.6 m. -chalcopyrite noted in ½ cm. wide quartz-carb. veinlet. Pyrite content generally ≥3%, local semi massive patches of pyrite up to 1 cm. across.	5817	42.6-44	>10000	> 20.0	2900
43.8-46	15.2 cm	Medium to light gray bleached & weakly silicified volc./sed. fragmental. 43.8 - 44.1 bedded, pyritic dark gray argillite as in last section. Contact with bleached unit below is irregular and at approx. 40-45° to core axis. 44.3 - 44.6 m. darker green-gray volcanic fragmental with argillitic fragments. 44.6.5-46 m. pale gray bleached unit. Pyrite is disseminated and in quartz ⁺ -carb. veinlets. Veins from 20-45° to core axis and vary in thickness from 1 mm. to 1 cm. 44.8 - 45 Quartz vein(s) with pyrite and chalcopyrite vein(s) nearly parallel to core axis. Carbonate content for section is low.	5818	44-45.7	380	6.6	380

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PROPERTY SNOWFLAKE HOLE No. SF-83-8 SHEET No. 6 of 10

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
46-49	0	Similar to last section except becoming a definite green agglomerate at 48 m. contact with pale unit $\sim 30-45^\circ$ to core axis. (irregular contact).	5819	45.7-47.2	55	1.7	195
		Agglomerate rock fragments appear to be fine grained intermediate volcanics some of which show porphyritic texture. Quartz ⁺ carb. veinlets common between 46 - 46.6; @ $20-30^\circ$ to core axis. Pyrite content $\sim 2-3\%$ max.	5820	47.2-48.7	25	1.4	129
49 - 52	0	Medium green-gray polymictic agglomerate. Volcanic fragments often show rounded edges and vary from 0.5 cm. to λ 3 cm. across. Pyrite found as disseminations, clots & in quartz veinlets. Pyrite content highly variable 2-5%. 51 - 51.8 m Chalcopyrite/pyrite noted. 49.9 - 51.2 several long quartz/pyrite veins at or nearly parallel to core axis. Veining not intense $\leq 5\%$ of rock. 51.8 - 52 m. - massive darker green volcanic material. Overall carb. content is low.	5821	48.7-50	240	5.5	129
			5822	50-51.8	1000	18.9	443
52-55	0	Medium to dark green andesitic (?) agglomerate with intercalated fine grained tuffs & flows. Pyrite content variable - from 2-5%. 52.5 - 53.3 darker green fine grained bedded tuff (?) with bedding @ $45-50^\circ$ to core axis. 54.2 - 55 pale green, fine grained, weakly bleached agglomerate. Pyrite content generally low except in the dark green f. grained sections. Few quartz ⁺ carb veinlets observed.	5823	51.8 - 53.3	70	1.7	171
			5824	53.3-54.8	195	4.1	104

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
55-58.2	0	Pale green gray, fine grained agglomerate & tuff.	5825	54.8-56.3	90	1.3	66
		Pyrite disseminated-generally < 2-3%. Quartz vein from 0-45° to core axis. 56.3 m-chalcopyrite.	5826	56.3-57.9	190	2.5	151
58.2-61.5	0	Pale green-gray, weakly bleached andesitic agglomerate and tuff. Vague fragmental texture seen in a few places. Quartz veining not common.	5827	57.9-59.4	30	1.0	75
		Pyrite content decreasing-generally < 2%. Noted minor scattered grains of molybdenite @ 59 - 60.3 m.(found in quartz-pyrite veinlets).	5828	59.4-60.9	30	1.1	75
61.5-64.6	15.2 cm	Similar to last section up to 63 m. Few quartz + pyrite veins from 62 - 63 m. often at low angles to core axis (< 30°). 63.3-64 m. intense quartz ⁺ carb. veining. Pyrite content low. 62.4 m.chalcopyrite and minor molybdenite in low angle quartz-pyrite vein.	5829	60.9-62.4	105	1.4	94
			5830	62.4-64	330	2.1	217
64.6-67	0	Medium green, massive unaltered to weakly altered fine to coarse andesitic agglomerate. Quartz veinlets not common. (< 5%). Pyrite content low < 2%.	5831	64-65.5	35	.8	91
			5832	65.5-67	30	.9	132

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PROPERTY SNOWFLAKE

HOLE No. SF-83-9

SHEET No. 2 of 11

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
13.5-16.4	15.2 cm	Similar to last section. Few low angle ($< 40^\circ$) quartz ⁺ -carb. + pyrite veinlets scattered through section. 13.7-14 m. highly pyritic ($\sim 10\%$) agglomerate-pyrite is very fine grained and found generally in matrix of rock (between fragments).	5852	13.7-15.2	20	1.2	108
		16 m. -1.5cm. highly oxidized pyritic vein (?) @ $10-15^\circ$ to core axis.	5853	15.2-16.7	130	2.1	172
			fire assay	(oz/ton)	(.46)	(2.74)	
16.4-19.5	15.2 cm	Similar to last section except with increasing amount of less limonitic agglomerate. Large quartz ⁺ -carb.-pyrite vein at 17.6-17.9m(⁺). Vein appears to be at approx. 20° to core axis ⁺ and contains up to 10-15% pyrite with minor chalcopyrite and suspect spalerite-galena. Last 15 ^{cm} of vein shows intense brecciation and limonite alteration. Rock becoming less limonitic from 18.5 to 19.5 m. fracture faces are still limonitic however. The last 91 ^{cm} are also becoming more light gray-almost bleached in appearance.	5854	16.7-18.2	>4000	>20.0	548
			5855	18.2-19.8	190	1.9	91
19.5-21	15.2 cm	Pale gray mixed agglomerate and fine grained brittle tuff or flow (?). Agglomerate from 19.5-20m-moderately quartz veined (5% of rock). 20-21 m. -pale gray, fine grained, bleached (?) tuff-flow. Moderately abundant randomly oriented quartz veinlets. Contact with agglomerate is sharp @ 30° to core axis.	5856	19.8-21.3	75	1.1	62

PROPERTY SNOWFLAKE HOLE No. SF-83-9 SHEET No. 3 of 11

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
19.5-21	cont'd	Pyrite content low 1-2% in both rock types. Limonite now only on fracture faces. Last 15 ^{cm} is quite highly veined and crumbly-possible shear zone.					
21-22.2	30.4 cm	Pale green-gray bleached and silicified agglomerate. Core is quite broken and shows abundant quartz veining. Pyrite content generally low <2%. Possible shear from 21-21.3 m. Limonite no longer seen in any quantity.	5857	21.3-22.8	18	1.0	53
22.2-22.8	15.2 cm	Similar to last section-locally coarse agglomerate and can see fine mafic (?) porphyritic texture in some of the volcanic fragments. Few low angle (< 35°) quartz ⁺ carb. veinlets noted.					
22.8-24.3	15.2 cm	Pale gray-green, weakly bleached and locally brecciated agglomerate. Rock still appears bleached and altered. Many of fragments surrounded by pale pink-brown amorphous material. Quartz ⁺ carb. veining erratic; several veins up to >1cm. wide. Most veins ≤30° to core axis. Pyrite content low (≤1%) except in vein @ 23.9 to 24.3 m. This vein is associated with crumbly zone (shear) and contains some dark gray fine grained metallic grains (galena?)	5858	22.8-24.3	135	2.4	86

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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
30.7-31.3	60.9 cm	Gray, fine grained, weakly brecciated and variably quartz veined finely laminated cherty tuff (?). Pyrite content 2-3%; locally greater.	5863	30.4-32	80	1.9	197
31.3-32	45.7 cm	Similar to last section. Bedding laminae @ $\leq 10^\circ$ to core axis. Pyrite 1-2%-locally greater.					
32-32.3	15.2 cm	Similar to last section-only pebbles recovered.	5864	32-33.5	50	1.2	72
32.3-33.2	60.9 cm	Pale gray, broken, weakly bleached and agglomerate. Few quartz \pm carb. veins, Pyrite $\leq 1\%$.					
33.2-33.8	45.7 cm	Similar to last section. Pebbles recovered.					
33.8-34.1	15.2 cm	Similar to last section. Some quartz \pm carb. veining noted in pebbles.	5865	33.5-35	110	2.6	226
34.1-35.9	60.9 cm	Mixed dark gray quartz veined, fine grained cherty argillite (?) from 34.1-35. Pyrite 1-3%. Possible fault zone @ 35 m. -low angle to core axis. All of above section shows brecciation and microfaulting. 35-35.9 m.-Pale green-gray, weakly bleached and pyritic agglomerate. Pyrite 2-3%, Locally $\leq 5\%$. Possible MoS ₂ @ 35.3-35.6 m. Core very broken	5866	35-36.5	60	2.5	65

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HOLE No. SF 83-9

SHEET No. 7 of 11

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
41.7-42.6	15.2 cm	Medium green, mottled, weakly altered and broken andesitic agglomerate. Pyrite < 1-2%. Minor quartz veining.					
42.6-43.8	30.4 cm	Similar to last section plus some pale gray green fine grained bleached looking tuff. Core very broken.	5871	42.6-44	100	1.0	53
43.8-44.8	30.4 cm	Similar to last section. Bleached, veined tuff from 43.8 to 44 m. Noting minor hematite on fracture faces	5872	44-45.7	55	1.5	49
44.8-45.7	76.2 cm.	Dark gray, highly fractured chert or cherty tuff. Finely and randomly quartz ⁺ carb. veined. Pyrite content low ≤ 1%.					
45.7-46.9		Green to pale green-gray fine grained, weakly altered tuffs & agglomerate. Last 30 ^{cm} is pale gray-green tuff-fragments ≤ 1mm. across. Low pyrite content ≤ 1-2%.	5873	45.7-47.2	2050	17.0	490
46.9-48	1 m.	Pale gray, weakly-moderately altered tuff. Gouge zone; veining from 46.9 - 47.8 m. Fragments in gouge zone show brecciation & intense veining some of which contains pyrite, <u>chalcopyrite</u> and <u>galena</u> . Veining often appears parallel to core axis. however randomly oriented veinlets are also common.	5874	47.2-48.7	135	1.7	181

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HOLE No. SF-83-9

SHEET No. 9 of 11

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
54.8-55.7	45.7 cm	Similar to last section.	5879	54.8-56.3	230	3.5	96
55.7-56.6	45.7 cm	Similar to last section. Increasing pyrite content- finely disseminated (2%). Fair abundance of quartz ⁺ carb veining most of which appears randomly oriented. This tuff section shows areas containing dark green fragments randomly scattered-probably represent mafic fragments.					
56.6-57.6	60.9 cm	Similar to last section. Highly broken pale gray green tuff with green mafic fragments. In last two sections have also noted several areas containing a bright green mineral-possibly malachite saturation(?) around altered chalcopyrite grains.	5880	56.3-57.9	60	1.0	82
57.6-59.4	30.4 cm	Gray-green moderately well veined tuff with hematitic fracture faces. Intense quartz ⁺ carb veining in first 45.7 ^{cm} -also site of small shear zone. Quartz veins often have hematite associated especially from 58.2-59.4 m. Veins & veinlets 1mm-5mm and generally 30-45° to core axis. Pyrite content generally <2%.	5881	57.9-59.4	< 5	.7	16

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PROPERTY SNOWFLAKE

HOLE No. SF-83-9

SHEET No. 10 of 11

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
59.4-60.3	15.2 cm	Pale gray-green hematitic tuff up to 60 m. after which rock becomes a medium green more solid tuff with epidote blebs and fracture linings. Hematite still present on fracture faces and in quartz ⁺ carb veinlets.					
60.3-60.9	15.2 cm	Medium green, fine grained andesitic tuff and/or flow. Hematitic fractures present along with clots of epidote. Pyrite content low <2%. Few quartz-carb. veinlets.	5882	59.4-60.9	30	.7	8
60.9-62.4	15.2 cm	Similar to last section. Core not as broken. Epidote-hematite pervasive. Quartz-carb-hematite veinlets generally at low angles to core axis. (0° to 30°).	5883	60.9-62.4	< 5	.7	12
62.4-63	15.2 cm	Pale gray green weakly bleached "mafic mottled tuff". Hematite quite common-found as clots and fracture coatings.					
63-65.2	30.4 cm	Medium green, fine grained andesitic tuff and/or flow with only minor hematite/epidote. Pyrite content increasing to 2-3% locally. 63-63.3 m Bleached and sheared tuff-slickensides @ 20-25° to core axis. Intense quartz veining noted in shear @ 63 - 63.2 m. Rest of section contains randomly oriented quartz veinlets (moderate intensity).	5884	62.4-64	10	.8	21
			5885	64-65.5	15	.7	22

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HOLE No. SF-83-9

SHEET No. 11 of 11

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
65.2-65.8	15.2 cm	Similar to last section except bleached and veined from 65.5-65.8 m. Pyrite content 1-2%.					
65.8-67.3	30.4 cm	Medium green, fine grained andesitic tuff and /or flows. Bleached and veined as in latter portion of above section from 65.8-66.1 m. Rest of section contains abundant epidote and scattered quartz-carbonate veinlets. Hematite scarce. Pyrite content low ~1%.	5886	65.5-67	20	.7	13
67.3-70	60.9 cm	Similar to last section. Epidote content quite variable. Hematite scarce. Pyrite ~1% ⁺ . Quartz-carb veinlets generally @ low angles to core axis (0-30°). Shear zone (slickensides) @ 67.9 m- 30° to core axis.	5887	67-68.5	10	.8	98
			5888	68.5-70.1	175	1.1	61
70-70.7	45.7 cm	Similar to last section-core very broken.	5889	70.1-72.2	55	.9	45
70.7-72.2	1.2 m.	Similar to last section. Core tube didn't lock lost 1.2 m. of core.					
		END OF HOLE.					

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HOLE No. SF-83-10.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size N.O.
 Angle of Hole -90°
 Claim.....
 Section.....
 Bearing

Total Depth 74.9 m.
 % Recovery 89%
 Elev. Collar
 Latitude 5 + 60NW
 Departure 5 + 31SW

Sheet No 1 of 9
 Logged by W. Gruenwald
 Date Begun Nov. 10/83
 Date Finished Nov. 13/83
 Core Stored At

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au. ppb	Ag. ppm	Cu. ppm
0-9.1 m		Casing - Overburden to 9.1 m. Casing driven to 13.7 m. to aid in water return.					
9.1-10.6	91.4 cm	Broken, gray argillaceous arenite. Minor pyrite. Limonite on fracture faces.	5890	9.1-10.6	< 5	1.0	69
10.6-12.1	60.9 cm	Medium gray, fine grained vaguely bedded argillaceous arenite. Bedding laminae when observed are at 30° to core axis. Few pyritic bands observed. Pyrite content ~ 1-2%. Few quartz ⁺ -carb veinlets seen.	5891	10.6-12.1	< 5	1.0	76
12.1-12.8	39 cm	Similar to last section. Finely disseminated pyrite 1-2%.					
12.8-14	15.2 cm	Similar to last section. Few scattered quartz ⁺ -carb veinlets seen < 1mm to 5mm. wide. Veinlets vary from 30-60° to core axis.	5892	12.1-13.7	5	.8	73
14-15.5	15.2 cm	Similar to last section. One 5mm. wide quartz ⁺ -carb veinlet @ 14.1 m. @ 25-30° to core axis.	5893	13.7-15.2	10	.8	77

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PROPERTY SNOWFLAKE

HOLE No. SF-83-10

SHEET No. 2 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
15.5-17.3	30.4 cm	Similar to last section. Limonite still present on fracture faces. Core broken and altered due to possible shearing at 16.4-17 m. Pyrite content still low 1-2%.	5894 5895	15.2-16.7 16.7-18.2	< 5 85	.9 .7	74 56
17.3-18.8	15.2 cm	Medium gray, fine grained argillaceous arenite with disseminated pyrite. (1-2% max). Few quartz-carb veinlets. (30-60° to core axis). Limonitic fractures virtually nonexistent now.	5896	18.2-19.8	< 5	.8	59
18.8-21.3	30.4 cm	Similar to last section except showing evidence of pre-induration brecciation at 20 - 20.7 m. Fragments consist of dark gray to black argillite which are often rounded to elongate slivers along with large rounded fragments of arenites, gray wackes & possible granitic rock? Pyrite found as small grains & clusters in both matrix & fragments-content 20-25% locally in this breccia section from 20-20.7. 20.7-21.3m into dark gray, variable pyritic (2-3%) weakly graphitic argillite (quite broken). Scattered thin quartz-carb veinlets found throughout entire section-random attitudes.	5897	19.8-21.3	< 5	1.0	82
21.3-22.5	30.4 cm	Dark gray, broken, brittle weakly pyritic argillite. Pyrite found disseminated and along bedding planes-content locally to 5%+. Bedding at 30-35° @ 22.1 m. Where pyrite is associated with fine grained gray wacke bed.	5898	21.3-22.8	< 5	1.0	95

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PROPERTY SNOWFLAKE HOLE No. SF-83-10 SHEET No. 4 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
29.5-31.6	0	Predominantly light to medium gray, fine grained argillaceous arenite. 29.5-30 m. intercalated dark gray argillite and lighter gray arenite(?) Bedding planes well defined @ 45 ^{o+} to core axis. Two quartz-carb veins (1cm ⁺) @ 25-35 ^o to core axis @ 29.8-30.1 m. Other minor quartz-carb. veinlets @ low angles to core axis Pyrite content generally lower than previous sections Average pyrite content 2%.	5904	30.4-32	25	1.1	45
31.6-33.5	15.2 cm	Mixed light gray argillaceous arenite, gray wacke, and dark gray argillite. 31.6-32 m. arenite & possible gray wacke. 32-33.2 m. dark gray, brittle, well veined weakly graphitic argillite. Contains numerous thin (.5 to 2 mm.) veinlets at various angles to core axis. Many of veins & veinlets show microfaulting. Pyrite from 2-4%-locally found as clots up to 1 cm. long. 33.2-33.5 m. light gray, brecciated & quartz-carb veined & weakly bleached fine grained gray wacke.	5905	32-33.5	15	1.3	95
	*	33.2m. noted galena, straw colored sphalerite and chalcopyrite in brecciated argillite & quartz-carb vein material. Sulphide content generally ≤ 2% for section 33.2-33.5 m.					
33.5-34.4	15.2 cm	Dark gray, brecciated & veined weakly graphitic argillite Pyrite content higher @ 3-4%. 33.5-33.6 m. is the pale gray, f. grained gray wacke noted in last	5906	33.5-35	10	1.2	83

section. Breccia fragments noted-quartz carb vein @ 34.1 m

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HOLE No. SF-83-10

SHEET No. 5 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
34.4-35	0	Dark gray & medium gray intercalated argillite & fine grained arenite/gray wacke. Bedding very distinct @ 30° to core axis. Pyrite generally finely disseminated 2% ⁺ . Some graphitic slickensides noted 20-25° to core axis @ 34.7 m. Quartz-carb veinlets generally uncommon.					
35-36.8	15.2 cm	Dark gray, weakly pyritic, brittle, variably graphitic argillite. Few qtz-carb stringers noted. Pyrite content 2-3% max.	5907	35-36.5	5	1.3	108
36.8-38.4	15.2 cm	Similar to last section-shows well defined bedding -35° to core axis. Pyrite content variable from 2-4%. Few narrow bands of fine grained gray wacke with pyrite content 5-6%. Some graphitic fracture faces observed.	5908	36.5-38.1	5	1.2	85
38.4-39.6	45.7 cm	Similar to last section-well bedded & variably pyritic. Bedding laminae 30-40° to core axis. Core quite broken.	5909	38.1-39.6	5	1.0	68
39.6-41.1	15.2 cm	Similar to last section except much less broken. Small qtz-shear @ 39.6-39.7 m. Evidence of faulting @ 39.8 m. displaces bedding laminae ~2cm. This particular section has some intercalated arenite/gray wacke beds which show graded bedding & are often more pyritic than surrounding argillite. Qtz-carb	5910	39.6-41.1	15	1.0	77

veinlets not very common.

PROPERTY SNOWFLAKE HOLE No. SF-83-10 SHEET No. 6 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
41.1-41.7	45.7 cm	Section of broken argillite/gray wacke and brecciated quartz/carb. material.	5911	41.1-42.6	5	.9	100
41.7-42.3	45.7 cm	Similar to last section-only pebbles recovered. Carbonate content- constant throughout argillite-weak to moderate.					
42.3-43.5	45.7 cm	Mixture of intercalated dark gray argillite/gray-wacke/arenite and brecciated graphitic veined argillite. Section quite broken. Pyrite content low \leq 2% locally 3-4%.	5912	42.6-44.1	15	.9	227
43.5-45.5	30.4 cm	Mixed argillite/graywacke & brecciated equivalent. 43.5-44.1 gray to dark gray broken weakly graphitic argillite-last 15 cm. shows slickensided surfaces. 44 m. contact with coarse sed. breccia @ 45° to c.a. 44 - 44.6 m. coarse sed. breccia-quartz-carb veins @ 45-60° to c.a. Pyrite content 2-3% ⁺ . 44.6 - 45.5 m. Gray intercalated argillite/f. grained arenite. Bedding laminae @ 35-40° to core axis.	5913	44.1-45.7	< 5	1.3	79
45.5-48.7	15.2 cm	Interbedded argillite/f. grained argillaceous arenite and light gray volcanic/sed. fragmental. (agglomerate?) 45.5 - 47.7 m. intercalated argillite, light gray argillaceous arenite/graywacke. Pyrite still favouring coarser sedimentary beds. Bedding @ 30-35° to c.a. Minor graphite on fracture faces. 47.1 - 47.2 m. small	5914 5915	45.7-47.2 47.2-48.7	< 5 < 5	.9 .9	92 105

section of light gray volc/sed. agglomerate(?) 30° to c.a.

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HOLE No. SF-83-10

SHEET No. 7 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
45.5-48.7	cont'd	47.7 - 48.7 m -light gray, massive, coarse grained volcanic/sed. fragmental. Fragments generally rounded and appear to be a pale bleached volc. rock. Some fragments of argillite were noted in this rock type. Pyrite content in this rock type is generally 2-3%. Found disseminated & in quartz-carb. veinlets. Fragments are from 0.25 cm. to 2 cm. across-average 0.5cm.					
48.7-51.8	0	Similar to last section except fragments becoming coarser. Polymictic nature of rock very definite from 50.2-51.8 Few scattered qtz veinlets. Pyrite content generally low < 2%.	5916	48.7-50.2	5	.8	95
			5917	50.2-51.8	< 5	.8	135
51.8-54.8	0	Pale gray-green medium to coarse polymictic agglom. & light gray fine to medium grained tuff. 51.8 - 52.7 m Polymictic agglomerate. 52.7 - 54.8 Gray to green-gray fine to medium grained tuff. Occasional scattered quartz stringers. Pyrite content < 2%, locally higher Tuff is weakly bedded -45° to core axis. Contact between agglomerate and tuff (52.7 m) @ 60° (irregular) Very coarse agglomerate fragments from 54.7-54.8 m.	5818	51.8-53.3	15	.7	65
			5819	53.3-54.8	25	.7	64
54.8-57.9	0	Mixed tuff and agglomerate. 54.8 - 55 medium green gray, f. grained tuff. 55 - 55.3 m -coarse agglomerate. 55.3 - 56.3 m. predominately gray-green tuff in patches of coarse grained agglomerate. 56.3-56.8 m. weakly to moderately bleached agglomerate, qtz vein swarm @ 56.5 m. (3 cm wide)	5920	54.8-56.3	20	.7	74
			5921	56.3-57.9	10	.7	90

@ 45-50° to core axis. (3-4% pyrite).

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HOLE No. SF-83-10

SHEET No. 8 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
54.8-57.9	cont'd	56.8-57.3 m. very coarse agglomerate-one pale gray porphyritic volcanic fragment at least 10-15 cm. across. Pyrite content low < 2%. Highest pyrite content in dark gray, fine grained, volc. fragments.					
		57.3-57.9 m. Medium gray, fine grained tuff(?). Contains fragments of banded fine grained sediments (??). The few qtz-carb veins seen in this section are generally at low angles to core axis ($\leq 30^\circ$).					
57.9-60.9	0	Mixed green-gray fine grained tuff & coarse polymictic andesitic agglomerate. 57.9-58.5 m. coarse polymictic agglomerate-subrounded fragments-many of fragments show f. grained porphyritic texture.					
		58.5-59.4 m. predominantly green, f. grained tuff with irregular black, fine grained patches. 59.4-60.9 m. pre-	5922	57.9-59.4	30	.8	86
		dominantly coarse polymictic andesitic agglomerate. Fragments from < 1cm. up to 3cm.+ across. Tuff band @ 60 - 60.2 & 60.7 m. @ 50° to core axis.	5923	59.4-60.9	< 5	.8	92
60.9-64	0	Green-gray coarse polymictic agglomerate. Few qtz-carb. veinlets. Low pyrite content < 2%. Volc. fragments subrounded < 1cm. to 5 cm +. Many fragments show porphyritic texture. Minor fine-grained tuff horizon @ 62.1 - 62.4 m.					
			5924	60.9-62.4	5	.6	64
			5925	62.4-64	< 5	.8	88

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HOLE No. SF-83-10

SHEET No. 9 of 9

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au	Ag	Cu
64 - 67	0	Similar to last section.	5926	64-65.5	5	.7	102
			5927	65.5-67	< 5	1.1	95
67-70.1	15.2 cm	Similar to last section to 68.5 m. At 68.5 contact with fault gouge @ 35° to core axis. 68.5-69.3 m.					
		Gouge with quartz-carb. veins & fragments. Footwall contact 30-35° to core axis. 69.3-70.1 m. Variably bleached agglomerate-quite broken-Low pyrite content. Few quartz-carb. veinlets	5928	67-68.5	< 5	.8	116
			5929	68.5-70.1	30	1.1	63
70.1-71.9	15.2 cm	Pale green-gray broken coarse polymictic agglomerate. Several low angle quartz-carb veins from 71 - 71.7 m. (often vuggy). Low pyrite content < 2%.	5930	70.1-71.6	10	.9	94
71.9-73.1	60.9 m	Pale green-gray broken coarse polymictic agglomerate. Very few quartz-carb veins noted.	5931	71.6-73.1	15	1.6	75
73.1-74	30.4 cm	Similar to last section. One quartz-carb vein @ 73.7m. @ 45° to core axis (1 cm. wide).					
74-74.9	15.2 cm	Similar to last section.	5932	73.1-74.9	10	1.2	83
		END OF HOLE.					

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PROPERTY..... SNOWFLAKE.....

HOLE No. SF-83-11.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size N.Q.
 Angle of Hole -90°
 Claim.....
 Section.....
 Bearing

Total Depth 27.4 m.
 % Recovery
 Elev. Collar
 Latitude
 Departure

Sheet No. 1 of 2
 Logged by J.M. Dawson
 Date Begun Nov. 14'83
 Date Finished Nov. 17'83
 Core Stored At

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH of SAMPLE	Au ppb	Ag ppm	Cu ppm
meters		Casing to 19.8 meters					
19.8-20.4	0	Fine grained dense black, graphitic argillite with abundant fine grains of pyrite-also pyrite on fracture planes 5-10% in places; minor thin quartz stringers at 20-30° to core axis.	5933	19.8-21.3	< 5	.9	94
20.4-21.9	20.3 cm	Similar black graphitic argillite; minor interbeds of grey siltstone near beginning of section; bedding at ~ 45° to core axis; pyrite common as very fine disseminated grains; minor scattered, narrow quartz stringers.	5934	21.3-22.8	< 5	1.0	218
21.9-23.1	20.3 cm	Similar to last section; core becoming very broken and friable towards end of section.					
23.1-23.7	10.1 cm	Similar to last section; scattered narrow quartz stringers.	5935	22.8-24.3	10	1.0	189

APPENDIX B

PERSONNEL

PERSONNEL:

J.M. Dawson, P. Eng. GEOLOGIST	Sept. 6, 7, 13-17, 19-24, 27, 30.	15 days
	Oct. 1, 2, 3, 4, 7-10, 22.	9 days
	Nov. 17-19, 21-24.	7 days
	Jan. 5, 6, 7, 16, 17.	<u>5 days</u>
	TOTAL	36 days

W. Gruenwald, B. Sc. GEOLOGIST	Oct. 12, 13, 15, 16, 19, 21, 23, 25, 26, 29, 30, 31.	12 days
	Nov. 1, 2, 3, 7, 8, 9, 12, 13, 15, 16.	10 days
	Dec. 15, 16, 17.	3 days
	Jan. 5.	<u>1 day</u>
	TOTAL	26 days

APPENDIX C

PROGRAMME COSTS

PROGRAMME COSTS:

1. Labour:

J.M. Dawson, P. Eng.
36 days @ \$300.00/day \$10,800.00

W. Gruenwald, B. Sc.
26 days @ \$250.00/day 6,500.00

\$17,300.00

2. Expenses and Disbursements:

Diamond Drilling \$63,086.86
Assays & Analyses 5,745.30
Truck Rental 5,320.00
Room & Board 993.93
Water Supply Services 9,540.42
Telephone & Secretarial 1,356.05
Sepias, Blueprints, Xerox 267.50
Miscellaneous Hardware and
Field Equipment 404.60

86,714.66

TOTAL: \$104,014.66

APPENDIX D

REFERENCES

REFERENCES:

- Morrison, M. (1981): Report on an economic geological appraisal of the Snowflake Group of Mineral Claims, Aspen Grove Area, Nicola Mining Division, B.C.; Private Report to Snowflake Mining Ltd.
- Bacon, W.R. (1973): Report on the CM claims, Aspen Grove Area, Nicola M.D. British Columbia; Private Report to Ramco Industries.
- Cartwright, P.A. (1983): Report on the Induced Polarization and Resistivity Survey on the Snowflake Claims, Nicola Mining Division, B.C.; Private Report to Laramide Resources Ltd.
- Trenholme, L. (1983): Personal Communication
- Whist, J.A.B. (1983): Personal Communication
- Various Files of Snowflake Mining Company.

APPENDIX E

WRITER'S CERTIFICATE

JAMES M. DAWSON, P. ENG.

Geological Engineer


#206 - 310 NICOLA STREET • KAMLOOPS, B.C. V2C 2P5 • TELEPHONE (604) 374-0544

C E R T I F I C A T E

I, James M. Dawson of Kamloops, British Columbia, Do Hereby
Certify that:

- (1). I am a geologist employed by Kerr, Dawson and Associates Ltd., of Suite 206, 310 Nicola Street, Kamloops, B.C.
- (2). I am a graduate of the Memorial University of Newfoundland B. Sc. (1960), M. Sc. (1963), a fellow of the Geological Association of Canada, and a member of the Association of Professional Engineers of British Columbia. I have practised my profession for 20 years.
- (3). I am the author of this report which is based on an exploration programme carried out on the Snowflake property under my direct supervision.

KERR, DAWSON AND ASSOCIATES LTD.


James M. Dawson, P. Eng.
GEOLOGIST.

KAMLOOPS, B.C.

February 28, 1984.



L-8+00 NW

L-6+00 NW

L-5+00 NW

L-4+00 NW

L-3+00 NW

7+00 SW

6+00 SW

5+00 SW

4+00 SW

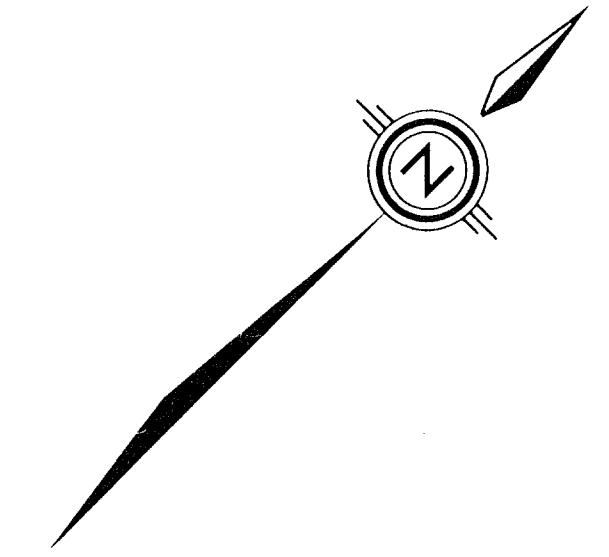
3+00 SW

2+00 SW

1+00 SW

(225°)

BASELINE (0+00) - 312°



LEGEND

- ROAD
- GRID LINE WITH STATION MARKER
- DDH SF-83-1 (-45°) DIAMOND DRILL HOLE LOCATION SHOWING ANGLE, DIRECTION AND SURFACE PROJECTION.
- AXIS OF ANOMALOUS I.P. ZONE
- SURFACE PROJECTION OF ANOMALOUS ZONE
DEFINITE
PROBABLE

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

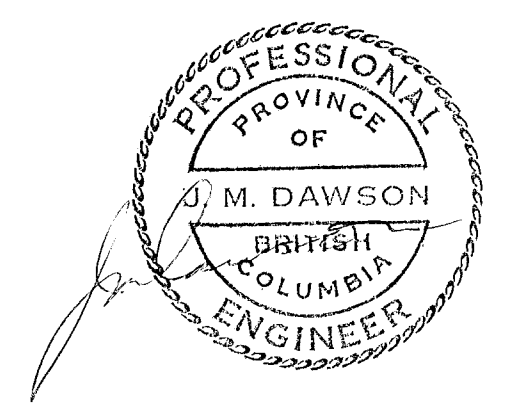
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LARAMIDE RESOURCES LTD.

DIAMOND DRILL HOLE PLAN

SNOWFLAKE PROPERTY

NICOLA MINING DIVISION, B.C.



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DRAWN BY: W.G.	DATE: NOV. 1983
APPROVED BY: J.M. DAWSON, P.ENG.	FIG. NO. 277-3

A

A'



- L E G E N D -

- DIAMOND DRILL HOLE OUTFLINE
- DEPTH MARKER, FEET (LEFT), METERS (RIGHT)
- SHEAR / FAULT ZONE
- SAMPLE NO
- GEOLOGIC CONTACT
- MINERALIZATION
- ABBREVIATIONS: py - pyrite, go - goethite, ch - chalcopyrite, atz - quartz, sph - sphalerite, cal - calcite
- SOLID ASSAY VALUES EXPRESSED IN PARTS PER BILLION (PPB)

GEOLOGICAL BRANCH ASSESSMENT REPORT

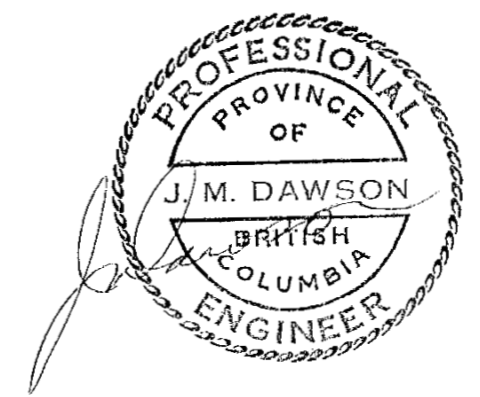
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DIAMOND DRILL HOLE SECTION (SECTION A - A')

SNOWFLAKE PROPERTY

NICOLA MINING DIVISION, B. C.

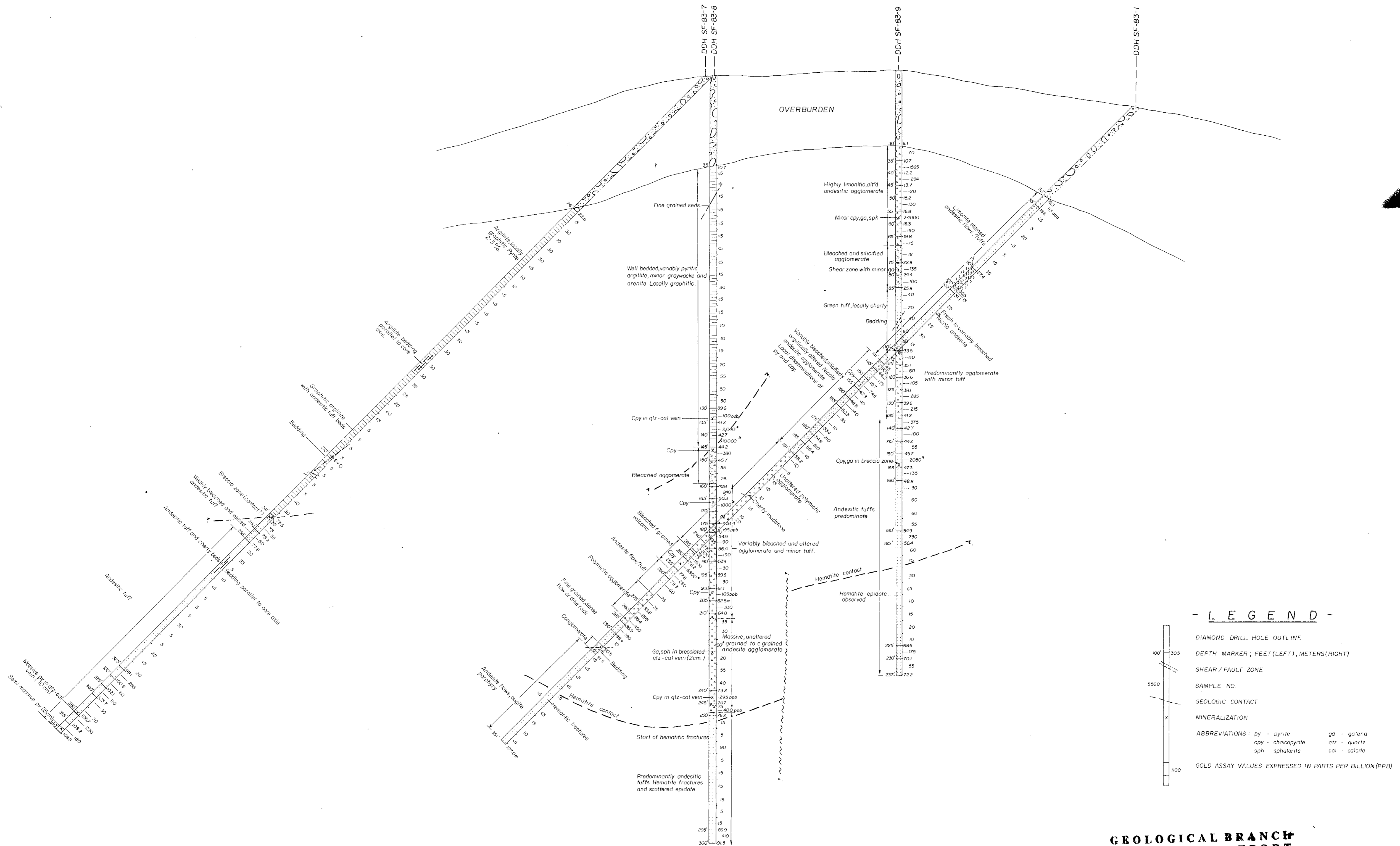


FIELD WORK BY J.M. DAWSON AND ASSOCIATES LTD.	SCALE 1:250
DRAWN BY W.S.	DATE DEC 1983
CHECKED BY J.M. DAWSON, P.Eng.	FIG NO 277-4

To accompany report by J.M. Dawson, P.Eng.

B

B'



- LEGEND -

- DIAMOND DRILL HOLE OUTLINE
- DEPTH MARKER, FEET (LEFT), METERS (RIGHT)
- SHEAR / FAULT ZONE
- SAMPLE NO
- GEOLOGIC CONTACT
- MINERALIZATION
- ABBREVIATIONS: py - pyrite go - galena
 cpy - chalcopyrite qtz - quartz
 sph - sphalerite cal - calcite
- GOLD ASSAY VALUES EXPRESSED IN PARTS PER BILLION (PPB).

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,113

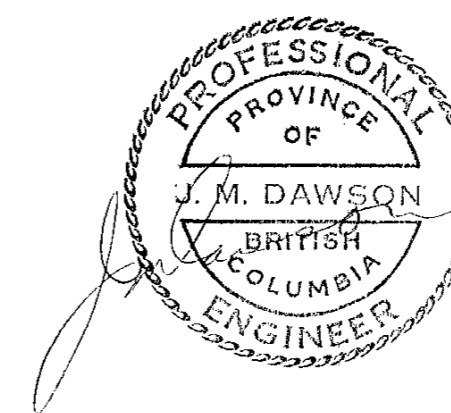
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DIAMOND DRILL HOLE SECTION
(SECTION B - B')

SNOWFLAKE PROPERTY

NICOLA MINING DIVISION, B. C.

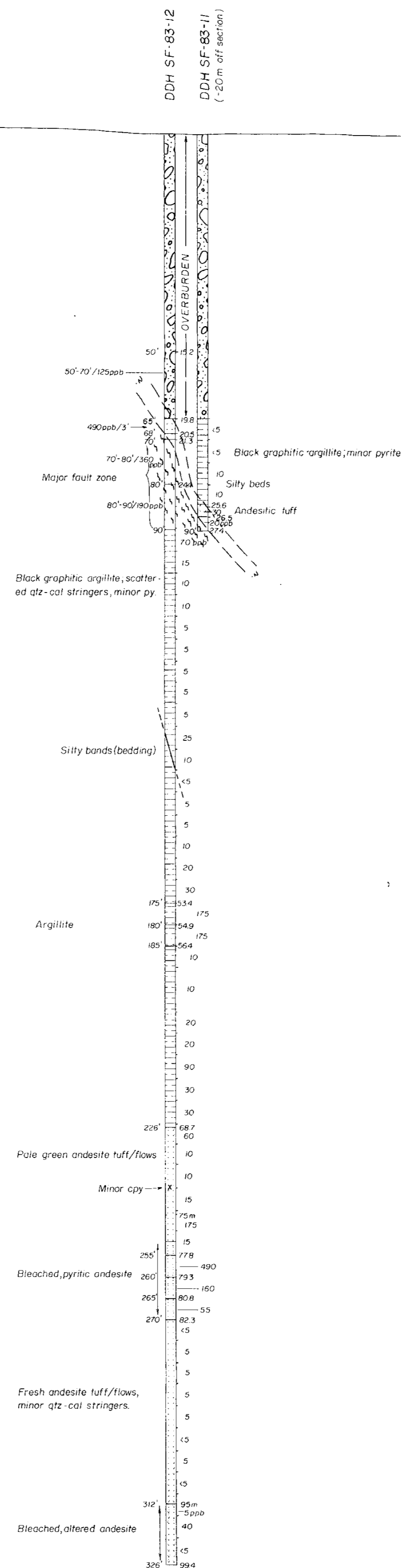
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 APPROVED BY: J.M. DAWSON, P.ENG. FIG NO 277-5



To accompany a report by J.M. Dawson, P.Eng.

C

C'



- L E G E N D -

- DIAMOND DRILL HOLE OUTLINE
- DEPTH MARKER, FEET (LEFT), METERS (RIGHT)
- SHEAR / FAULT ZONE
- SAMPLE NO
- GEOLOGIC CONTACT
- MINERALIZATION
- ABBREVIATIONS py - pyrite ga - galena
 cpy - chalcopyrite qtz - quartz
 sph - sphalerite cal - calcite
- GOLD ASSAY VALUES EXPRESSED IN PARTS PER BILLION (PPB)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

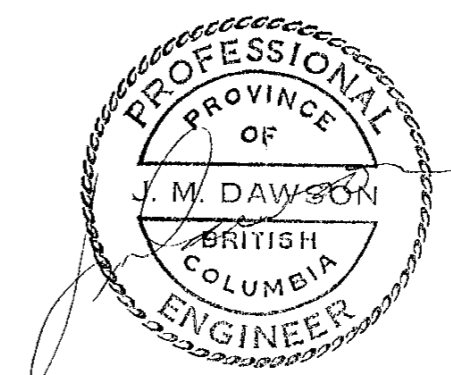
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DIAMOND DRILL HOLE SECTION
(SECTION C - C')
SNOWFLAKE PROPERTY

NICOLA MINING DIVISION, B. C.

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APPROVED BY J.M. DAWSON, P.ENG.	FIG NO 277-6

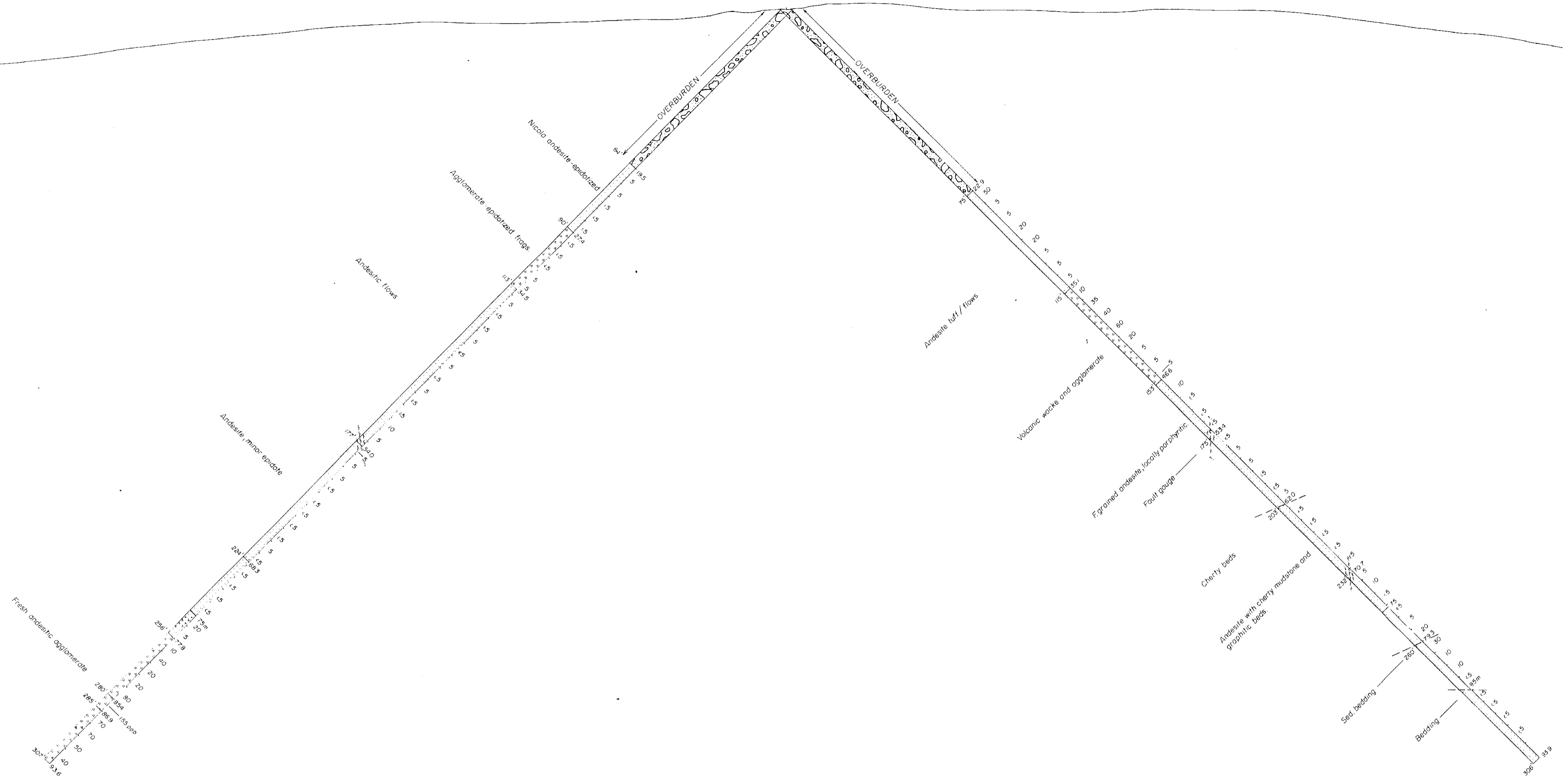


To accompany a report by J.M. Dawson, P.Eng.

D

D'

DDH SF-83-3
DDH SF-83-2



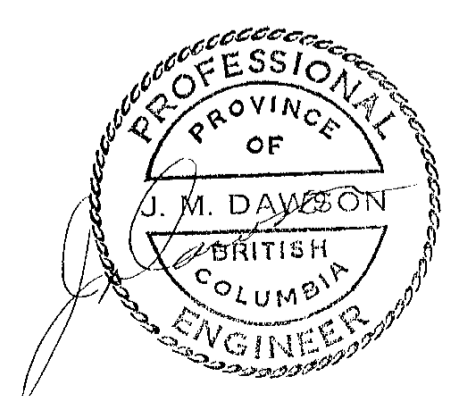
- LEGEND -

- DIAMOND DRILL HOLE OUTLINE
- DEPTH MARKER, FEET (LEFT), METERS (RIGHT)
- SHEAR / FAULT ZONE
- SAMPLE NO
- GEOLOGIC CONTACT
- MINERALIZATION
- ABBREVIATIONS: py - pyrite ga - galena
 cpy - chalcopyrite atz - quartz
 sph - sphalerite cal - calcite
- GOLD ASSAY VALUES EXPRESSED IN PARTS PER BILLION (PPB)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,113
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DIAMOND DRILL HOLE SECTION
(SECTION D - D')
SNOWFLAKE PROPERTY
NICOLA MINING DIVISION, B. C.



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DRAWN BY: W.G.	DATE: DEC 1983
APPROVED BY: J. M. DAWSON, P. Eng	FIG NO: 277-7

To accompany a report by J. M. Dawson, P. Eng