

GEOLOGICAL AND DIAMOND DRILLING REPORT

on the

WHITWATER PROPERTY

NTS 82F/ 6W

Latitude: 49° 23'N Longitude: 117° 26'W

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NELSON MINING DIVISION

OCTOBER 1 - DECEMBER 6, 1989

SUB-RECORDER RECEIVED APR 10 (AP) 5 1990 M.R. # \$..... VANCOUVER, B.C.

**OWNER: Snow-water Resources Ltd.,
P.O. Box 850,
Nelson, B.C.
V1L 5A6**

**OPERATOR: Teck Explorations Ltd.,
#960-175 Second Ave.,
Kamloops, B.C.
V2C 5W1**

**Greg Thomson
March 1990**

19900 PART 1 OF 2

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1.0 SUMMARY AND CONCLUSIONS

The Whitewater property, located about 16 kilometres southwest of Nelson, B.C., consists of 2 crown grants, 21 recorded mineral claims and 4 mineral leases for an equivalent total of 96 units. These claims are held by Snow-water Resources Ltd., a public company listed on the Vancouver Stock Exchange.

High grade gold bearing float boulders and gold bearing quartz veins were discovered along Snowwater (Whitewater) Creek, a tributary of Rover Creek, during the late 1800's. Minor production was achieved from short adits and float boulders during the period 1890 to 1930. However, despite much searching, the source of the high grade float has not been found. Approximately 1200 tons of ore were milled, but the overall amount of gold produced is not known.

A specimen of the high grade float assayed 7.06 oz/t gold and 37.6 oz/t silver (B.C. Minister of Mines, Bull 1, P. 101). Previous work on the property has consisted of prospecting, trenching, diamond and percussion drilling, geophysical (Mag., VLF-EM), geochemical surveys and underground drifting.

The Whitewater property is underlain by quartz monzonite and granodiorite of Jurassic Nelson Batholith which has intruded and metamorphosed Lower and Middle (?) Jurassic - Elise Formation Volcanics and Archibald Formation sediments of the Rossland Formation. Lamprophyre dykes and quartz veins intrude both granitic rocks and altered metavolcanics and metasediments. Mineralized quartz veins, which occur mostly within granite, contain pyrite and minor galena, sphalerite and molybdenite. Significant gold is associated with the pyrite. Sampling by Teck Explorations of high grade float boulders on the east side of Snowwater Creek yielded assays of

100.59 g/t Au,	140.3 ppm Ag	(# 23883)
45.45 g/t Au,	119.3 ppm Ag	(# 23884)
4.16 g/t Au,	14.7 ppm Ag	(# 23885)
5.17 g/t Au,	8.7 ppm Ag	(# 23886)

At present, three exploration targets exist on the property:

- a) the source of large, high grade, gold bearing quartz and quartz stockwork boulders found along Snowwater Creek.
- b) the location of higher grade shoots within known gold-bearing quartz veins which are open along strike and down-dip and the location of new veins.

- c) extent of newly discovered breccia-fracture zone carrying low grade gold values over mineable widths.

This report describes part of the 1989 exploration program on the property. Further work on the property is warranted.

2.0 INTRODUCTION

2.1 LOCATION AND ACCESS

The Whitewater property is located in south central British Columbia, approximately 16 kilometres southwest of Nelson at latitude 49° 23' north and longitude 117° 26' west (NTS 82F/6W). This is at the head of Snowwater Creek, a tributary of Rover Creek which flows northwestward from the Bonnington Range into the Kootenay River near South Slocan.

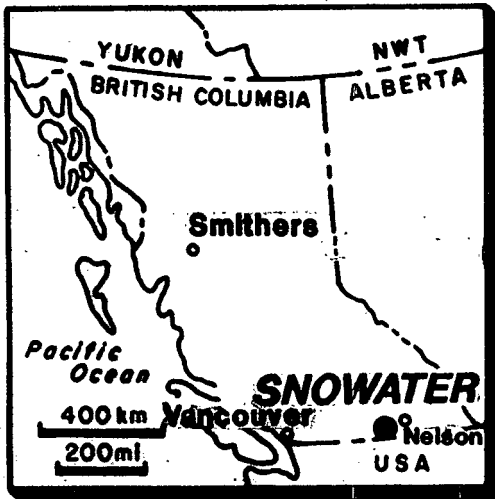
Road access from Nelson is along the south side of the Kootenay River to the Rover Creek logging access road and then southward along Rover Creek on the Whitewater Creek branch of the road to the property, a total distance of approximately 23 kilometres. This road crosses the claim group; in addition, several older roads provide limited access to old workings on the Crown-granted claims.

The topography on the claims is moderate to steep, with elevations ranging from 1460 metres above sea level along Snowwater Creek to more than 2225 metres on the southernmost located claims, east of Siwash Mountain.

Vegetation consists of relatively dense, mature hemlock, cedar, fir, balsam and minor underbrush. Recent clearcut logging has been carried out to the south and east of the crown-granted claims. Outcrop area is less than 25%, with glacial till and boulder talus obscuring much of the valley bottom and side hills.

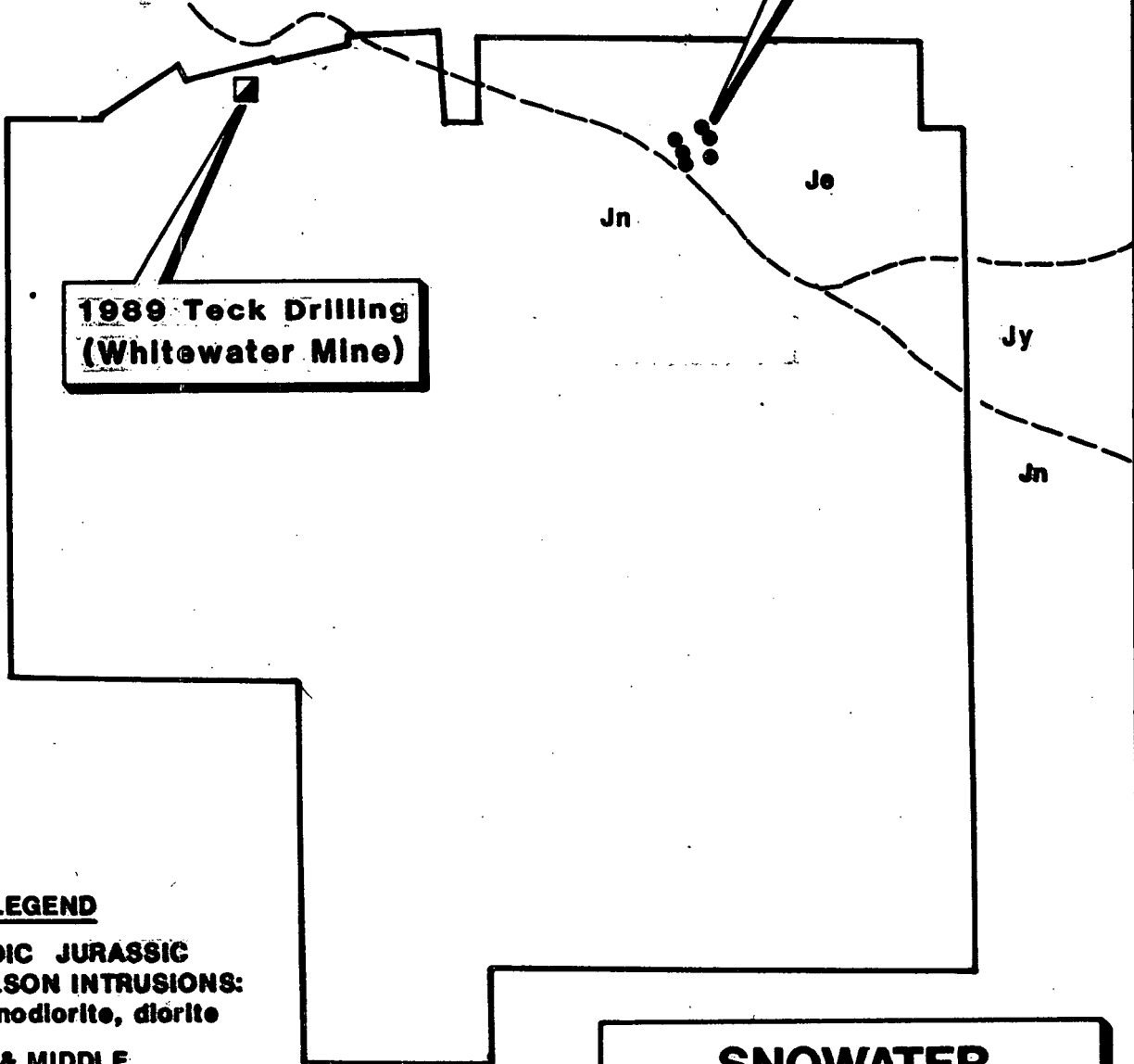
2.2 HISTORY

In the late 1800's float boulders and quartz veins carrying high gold values were discovered in the area. By 1890 a 90 ft tunnel had been driven on a reported 6 ft wide mineralized quartz vein reported to average \$80/ton. Limited production from float and underground workings occurred in the interval between 1890-1930 with some 1200 tons milled, (recoveries unknown). A significant amount of trenching, drilling, and drifting was also done.



**1989 Teck Drilling
(Breccia Zone)**

**1989 Teck Drilling
(Whitewater Mine)**



LEGEND

MESOZOIC JURASSIC

Jn NELSON INTRUSIONS:
granodiorite, diorite

**LOWER & MIDDLE
JURASSIC ROSSLAND
GROUP**

Je Else Formation
mafic to intermediate volcanics

LOWER JURASSIC & OLDER (?)

Jy Ymir Group: sediments

**SNOWATER
PROPERTY**

2 kilometres

1 mile

November 1989

FIGURE 1

The float boulders can be of impressive dimension; some as much as 17 tons in size have been noted. They carry gold in pyrite, galena, sphalerite, and chalcopyrite. B.C.D.M. Bull. 1, 1932, refers to one float specimen grading 7.06 oz/ton gold, and 37.6 oz/ton silver. Other samples from float boulders have graded 3.76, 1.76 and .37 ounces per ton of gold. Much effort has been expended over the years in attempts to locate the source of the high grade boulders, so far to little avail.

Samples of vein quartz from both underground and surface, have returned gold values of .54 oz/ton, 4.08 oz/ton, .60 oz/ton, and 3.02 oz/ton. In 1943-44 a total of 2865 metres of diamond drilling was done in 19 holes.

In 1970 Scurry-Rainbow Oil Ltd. optioned the claims and conducted road construction, surface and underground mapping, trenching, and 1064 ft of diamond drilling. (One hole is reported to have intersected 2.2 feet grading .26 oz/ton gold.)

In 1973 R.H. Seraphim collected 320 reconnaissance soil samples which outlined two elongated zinc anomalies, and several individual samples with gold values. In 1975 J.J. Barakso collected 19 reconnaissance chip and stream sediment samples.

In 1980, 3 possible VLF-EM conductors were outlined, and a small shipment of 19.5 tons was made which returned .359 oz/ton gold and 0.6 oz/ton silver, with 87.2% silica.

Between 1980-83 Woodcrest Holdings, (Zukowski), built roads, trenched, did geochem surveys, and conducted limited percussion drilling, followed in late 83-84 by a new adit on a known quartz vein to test the vein at depth. (Note: this cross-cut was stopped short of the projected vein intersection.) Percussion hole PD83-4 returned .108 Au over 5 ft., but to this author's knowledge it has not been followed up.

In 1985 a VLF-EM survey was conducted, with a follow-up program of percussion and diamond drilling. Percussion drilling of the VLF-EM anomalies returned one section reported to assay 1.488, and 1.296 oz/ton Au (check assay) in hole P85-17.

In 1985 Seraphim outlined 2 targets for further exploration:

- a) locate source of float along Snowwater Creek;
- b) explore known mineralized quartz veins.

To achieve this he recommended geologic, geophysical, and geochemical surveys, as well as more prospecting. Also he wanted more trenching, with results plotted. Contingent on results from this first phase, he also suggested detailed trenching in the

vicinity of clusters of float boulders, and on the trend of the known Whitewater vein system, with diamond drilling on veins and systems found in place.

In 1987, 4 drills totalling 1070 metres were drilled to test the high grade intersection obtained by previous percussion drilling at a VLF anomaly. Also, a 3050 m. programme of trenching, (and rehabilitation) was conducted, following Seraphims recommendations, at a cost of \$116,180.

One of the 1987 holes was almost entirely in a propylitized granite according to Santos. He asserts that this type of alteration occurs in the wallrocks adjacent to the Whitewater vein. Trenching found float boulders in a more localized area, several with lamprophyre still attached. Santos obtained a chip sample from one of these float boulders which assayed 4.2 oz/ton gold, and 8.34 oz/ton silver.

Santos, (1987), recommended a 2 phase programme aimed at more drilling for the float source, and to define ore mineralization within the known Whitewater vein, at a total cost of \$770,000.

During 1988, 3046.1 m of diamond drilling in 20 holes was carried out by Snow-water Resources. The holes were designated 88-W-01 to 88-W-08 and 88-E-01 to 88-E-12, referring to drill site locations on the west and east side of Snowwater Creek.

The drilling was concentrated mainly in the area of abundant high grade float boulders near Snowwater Creek, however, no economic mineralization was encountered.

During 1989 (excluding Teck program), 1337.4 m of diamond drilling was carried out by Snow-water Resources in 16 drill holes. These holes were drilled in three areas.

- a) Holes 89-01 to 89-05 were drilled along the main logging road, east of Snowwater Creek.
- b) Holes 89-08 to 89-14 were drilled in the area of the Whitewater adits. High grade gold mineralization hosted in quartz veins, was encountered in holes 89-08 to 89-13.
- c) Holes 89-15 to 89-18 were drilled on the eastern side of the property at the northwest corner of Snowwater 4 mineral claim. This drilling encountered a major breccia-fault zone carrying low grade gold mineralization and initiated a part of the Teck 1989 exploration program.

2.3 1989 EXPLORATION PROGRAM

A mineral exploration program was carried out on the Whitewater (Snowwater) mineral property by Teck Explorations Ltd., over the period September 29th to December 6th, 1989. The exploration program is part of a first year option work commitment for Snowwater Resources Ltd. of Nelson, B.C.

The work program is summarized as follows:

1. Grid Establishment: - 41.2 km., North-South grid lines (surveyed and picketed) at 100 m. line spacings and 25 m. station intervals. The grid includes 13.6 km. of cut and picketed I.P. grid at 50 m. line spacings from line 1+00 W to 9+00 E. Also included is a 4.1 km., surveyed, cut, and picketed East-West baseline, traversing the grid area. (Sept. 29th - Oct. 23rd)
2. Induced Polarization and Resistivity Survey
12.25 km. carried out between line 1+00 W and 9+00 E. (Oct. 13th - 25th)
3. Magnetometer Survey
34.6 km. carried out between line 15+00 W and 14+00 E. (Oct. 24th - 31st)
4. Geological Mapping
21.0 km. over the eastern portion of the survey grid, between line 1+00 W and 14+00 E. Additional mapping and sampling were carried out in the area of the Whitewater Mine adits. (Oct. 6th - 22nd)
5. Diamond Drilling
1,586.2 m. in 10 holes. (Oct. 27th - Dec. 6th)

Note: Surface geological mapping and magnetometer surveys were curtailed by October 31st due to snow conditions.

The exploration program was carried out with several mineral targets to be considered. In a general sense, exploration was concentrated over the North portion of the Snowwater property, to cover the contact between the Rosslund volcanics and Nelson intrusives. The grid area was established to include the Whitewater Mine workings and a newly discovered breccia zone located approximately 2.2 km. east-southeast of the Whitewater workings.

Specific exploration targets are as follows:

1. Determining the cause of a strong parallel I.P. anomaly near the baseline on the eastern portion of the grid area.
(tested by drill holes ST-89-01, 02, 03, 07)
2. Investigation of the recently discovered breccia-alteration zone containing low grade gold mineralization, hosted by Rosslund volcanic rocks near their contact with Nelson intrusive rocks.
(tested by drill holes ST-89-04, 05, 06, 08)
3. Investigation in the area of the previously known Whitewater adits, where high grade gold is associated with coarse pyrite in quartz veins, hosted by Nelson intrusive rocks.
(tested by drill holes ST-89-09, 10)

2.4 CLAIM STATUS

The Whitewater property is in the Nelson Mining Division and consists of 4 mineral leases, (reverted crown grants), 21 recorded mineral claims and 2 crown granted mineral claims. The property is owned by Snowwater Resources Ltd. The following list gives particular information on mineral claims included in the Whitewater property.

SNOWATER RESOURCES

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>	<u>LOT NO.</u>	<u>UNITS</u>
Whitewater, Midas	M.L. 121	July 25, 1990	529,3135	(1)
Columbia			3136	
Snowater	M.L. 122	July 25, 1990	3137	(1)
Stillwater	M.L. 131	Dec. 5, 1990	3811	(1)
Peter Fraction	M.L. 153	July 16, 1990	15271	1
Siwash	935	Feb. 8, 1994		1
Roosevelt Fraction	936	Feb. 8, 1994		1
Victory Fraction	937	Feb. 8, 1994		1
Virginia Fraction	938	Feb. 8, 1994		1
Churchill Fraction	939	Feb. 8, 1994		1
Ambassador	940	Feb. 8, 1994		1
Veronica Fraction,	941	Feb. 8, 1994		1
Hyland Fraction				
Silver #1 Fraction	2957	Feb. 6, 1994		1
Silver #2 Fraction	2958	Feb. 6, 1994		1

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>	<u>LOT NO.</u>	<u>UNITS</u>
Snowater #1	3670	March 21, 1990		10
Snowater #2	3671	March 21, 1990		16
Snowater #3	3672	March 21, 1990		18
Snowater #4	4226	Sept. 23, 1990		15
Snowater #5	5017	April 8, 1990		15
Snowater #6	5748	June 5, 1990		1
Snowater #7	5749	June 5, 1990		1
Snowater #8	5750	June 5, 1990		1
Snowater #9	5751	June 5, 1990		1
Snowater #10	5752	June 16, 1990		1
Snowater #11	5703	August 28, 1990		1
Snowater #12	5904	August 28, 1990		1

CROWN GRANTED MINERAL CLAIMS

<u>CLAIM NAME</u>	<u>CROWN GRANT NO.</u>	<u>LOT NO.</u>	<u>DISTRICT</u>	<u>UNITS</u>
Floatstone	6713	15241	Kootenay	1
Goldcoin	6712	15240	Kootenay	<u>1</u>
			TOTAL	96

3.0 GEOLOGY

3.1 REGIONAL GEOLOGY

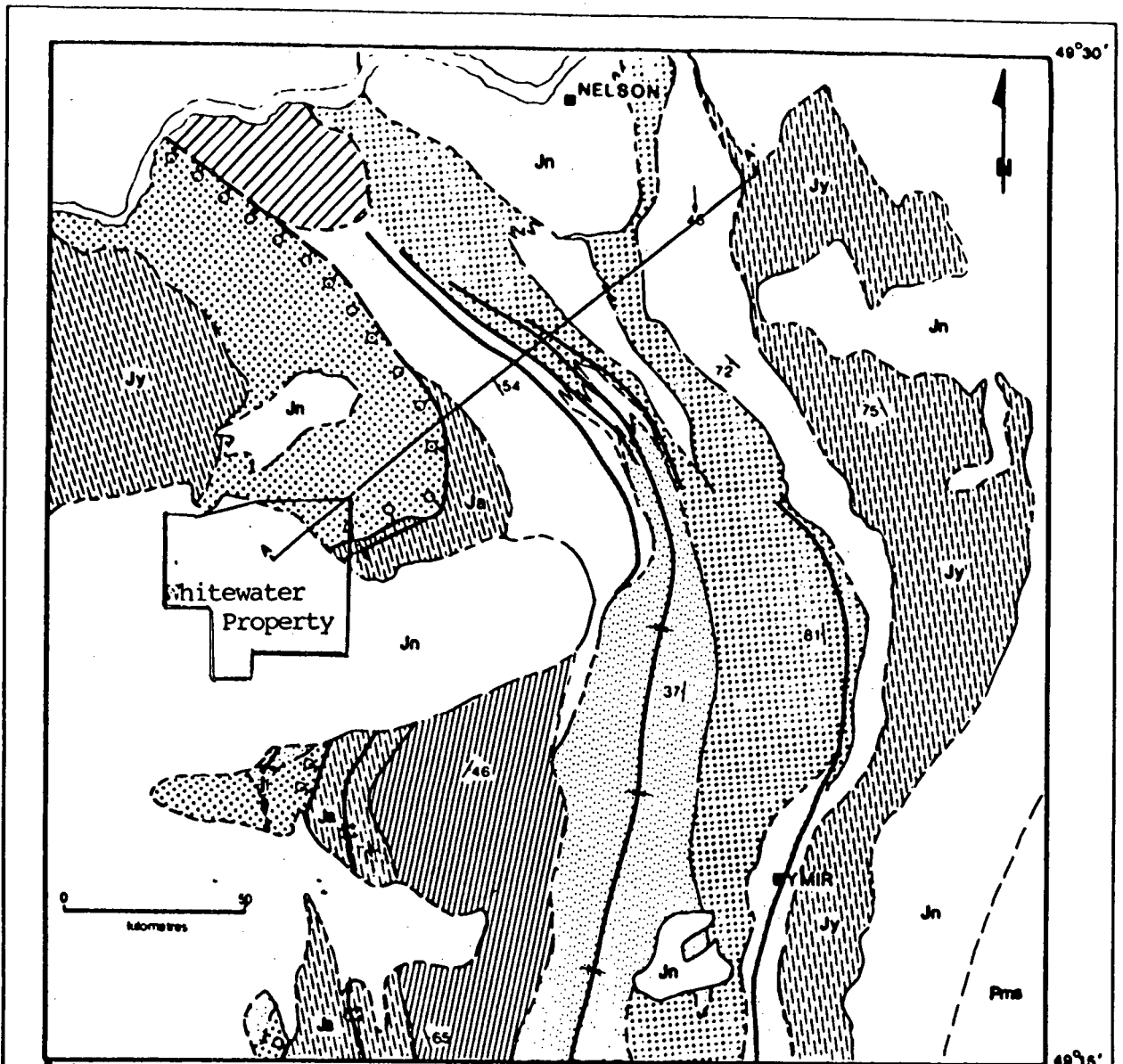
Recent geological work by Hoy and Andrew (1988) gives the following geological synopsis of the area surrounding the Whitewater property.

The area of the Whitewater property is predominantly underlain by medium grained, Jurassic Age granodiorites, quartz diorite and diorites belonging to the Nelson intrusions.

The area to the north and including the northeast portion of the Whitewater property is underlain by Upper Elise Formation rocks of Lower and Middle (?) Jurassic Age. The Upper Elise is predominantly intermediate pyroclastic rocks, minor epiclastic rocks and some mafic flows.

A major arcuate normal fault referred to as the Red Mountain Fault occurs in the northeast near the contact between Upper Elise Formation tuffs and Archibald Formation sediments.

(refer to Geology of Nelson map area on following page.)



LEGEND

MIDDLE JURASSIC

Jn NELSON intrusions

LOWER OR MIDDLE JURASSIC (?)

diorite (?)

LOWER JURASSIC

ROSSLAND GROUP

SILVER KING intrusions

HALL FORMATION

ELISE FORMATION

upper Elise

intermediate to mafic lapilli, crystal and fine tuff

intermediate lapilli and crystal tuff

lower Elise

mafic flow breccia, flows

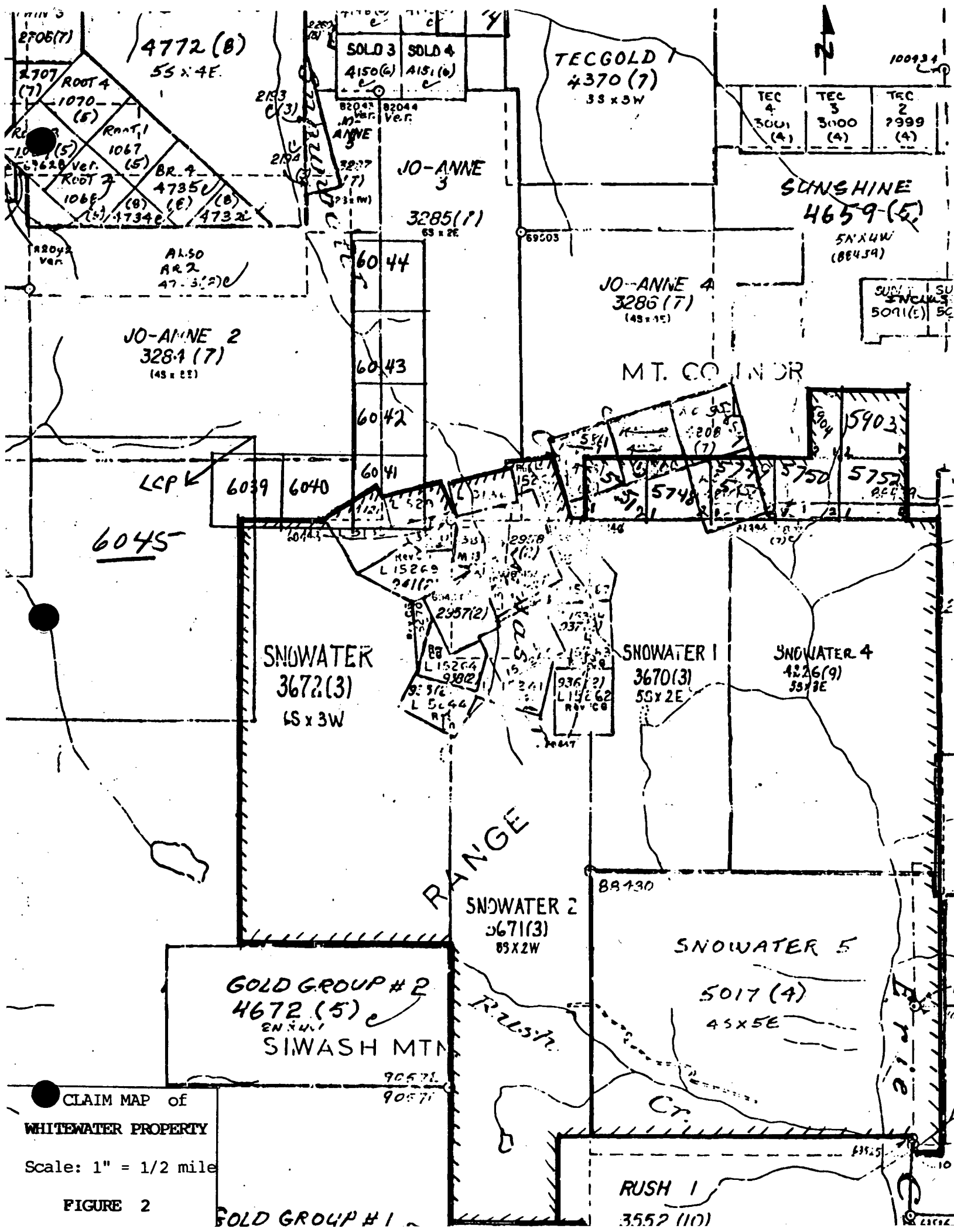
mafic pyroclastic breccia, crystal tuff

ARCHIBALD FORMATION

YMIR GROUP

PALEOZOIC

Pms metasedimentary rocks



3.2 PROPERTY GEOLOGY

Geologic mapping and minor sampling were carried out on the eastern portion of the survey grid at 1:2500 scale. Three days were spent examining and sampling the three Whitewater Mine adits. Surface and underground mapping-sampling programs were carried out over the period, October 6th - 22nd, 1989.

Outcrop exposure over the grid area is fairly poor, except on moderately steeper slopes both north and south of the baseline.

In general, the most northerly portion of the grid area is underlain by fine grained andesite tuffs belonging to the Upper Elise Formation of Lower and Middle (?) Jurassic age. The southern portion of the grid area (and the majority of the property) is underlain by Jurassic Nelson intrusives, mainly granodiorite to quartz monzonite.

The contact zone between the Elise volcanics and the Nelson intrusives is marked by frequent intrusive dykes, sills and lamprophyre dykes cutting the volcanics. Younger stage pegmatite and aplite dykes as well as lamprophyre dykes are found cutting the granitic rocks. Quartz veins are of minor occurrence and are typically less than 0.5 m. in width. The contact zone is also characterized by isolated lenses of hornfelsed volcanics with elevated levels of epidote-chlorite-garnet alteration.

A pronounced east-west foliation pattern was also noted with increased biotization and pyritization near the contact.

No surface exposures of economic mineralization were located on the eastern portion of the grid. A float sample of malachite-azurite stained tuff was located near station 0+50 N on line 8+00 E and assayed 785 ppb gold and 7.6 ppm silver. A bedrock sample of silicic tuff, (S-119) located near the baseline and line 6+50 E assayed 320 ppb gold and 0.6 ppm silver.

Of considerable historic interest, is the area around the old Whitewater Mine. Economic values of gold and silver were obtained in all three adits sampled, in particular the upper two adits. Quartz veins in the adits are variable in thickness and continuity and have undergone strong disruption and shattering. Two sets of fracturing were observed in and near the adits. A predominant set trends between 030 and 040 degrees, appears to cross all major units and is also subparallel to some of the mineralized vein segments. The second major set trends between 150 and 180 degrees and appears to be parallel to many of the lamprophyre dykes cutting the granitic rocks.

Gold with associated silver is the chief economic target on the Whitewater property. In order of abundance, molybdenite, sphalerite, and galena also occur on the Whitewater property, but at present in subeconomic quantities. Molybdenite most typically occurs as isolated blebs within pegmatite veins. Minor occurrences of sphalerite and galena are found with quartz veins at the Whitewater Mine and in mineralized quartz float boulders found along Snowwater Creek. Geology map (Fig 5) is included at the back of this report.

4.0 Geophysical Surveys

Most of the grid survey area was covered by a magnetometer survey in an attempt to delineate the contact zone between the Nelson intrusives and Rosslund Group volcanics. A clear trend of the contact was not distinguished by the data collected.

The I.P. grid area was established to cover the newly discovered breccia zone as found in drill holes E-15, 17 and 18 (early 1989), by Snowwater Resources Ltd.

Several priority basis I.P. anomalies have been outlined on the survey grid. For a complete description of the geophysical surveys, please refer to the report by Pacific Geophysical Ltd., entitled "Report on the Induced Polarization and Resistivity Survey and the Magnetic Survey on the Snowwater Project" (Dec., 1989), which accompanies this assessment report.

5.0 DIAMOND DRILLING PROGRAM (General)

The 1989 Teck drilling program was carried out to evaluate the following mineral targets.

1. I.P. anomalies located near the intrusive-volcanic contact on the eastern portion of the grid.
2. Breccia zone located near I.P. anomalies.
3. Whitewater Mine area.

Four drill holes (ST-89-01, 02, 03, 07), tested the western portion of the strongest I.P. anomaly. Only one value of significance was obtained from these four holes. Sample # 467650 gave a value of 190 ppb gold in a 0.7 m. interval of siliceous breccia contained 5% pyrite and several blebs of galena. This interval is important as it may represent the edge of the strong

breccia zone as encountered in drill holes ST-89-05, 06. The cause of the strong I.P. anomaly is not clearly understood, but may be related to pyrite enrichment near the intrusive-volcanic contact.

Drilling on the 'Breccia Zone', discovered by Snowwater Resources Ltd., was tested by drill holes ST-89-04, 05, 06, 08. Of the four holes drilled, three encountered the breccia zone. Of these three holes, two contained promising gold values.

The following table outlines the significant values from drilling on the 'Breccia Zone'.

<u>Hole No.</u>	<u>Interval (m.)</u>	<u>Gold</u>	<u>Silver</u>	<u>Rock Type</u>
St 89-04	71.64-72.34 (0.7)	60 ppb		Granodiorite
ST 89-05	72.5 -73.23 (0.7)	.017 oz/T	0.4 ppm	Andesite
	73.23-74.6 (1.37)	.014 oz/T		Breccia
	74.6 -75.6 (1.0)	.033 oz/T		"
	75.6 -76.6 (1.0)	.039 oz/T		"
	76.6 -77.6 (1.0)	.025 oz/T		"
ST 89-06	97.0 -98.0 (1.0)	.020 oz/T	1.6 ppm	"
	98.0 -99.0 (1.0)	.045 oz/T	1.0 ppm	"

Drill hole ST 89-04 was drilled to test the possible westward dip extension of the breccia zone, but did not intersect the zone. Drill hole ST 89-08 intersected the breccia zone, but exhibited weaker structure and lower gold values.

Based on present knowledge, the breccia zone follows a curvilinear strike, a probable reflection of the intrusive-volcanic contact on this portion of the grid area. The breccia structure should have future drilling carried out along its northern strike extension.

Two holes (ST 89-09, 10) were drilled from a common site near the Whitewater Mine. The holes were drilled to test the possible down-dip extensions of gold-silver bearing quartz veins.

Both holes were drilled entirely in Nelson granodiorites. Hole 89-09 contained no economic precious metal values, but did encounter a major fault structure from approximately 172-179 metres. The fault zone was followed by an extensive aureole of strong propylitic alteration.

Hole ST 89-10 contained several erratic gold values, related to narrow pyritic quartz veins. The highest value recorded for hole ST 89-10 was 3030 ppb gold at 169.8-170.2 m.

All drill core from the 1989 Teck drilling program is stored in a warehouse, in Nelson, B.C.

Drill hole locations are shown on Figure 3 and sections are shown on Figures 7 through 12. Drill logs are appended as well as drill hole sampling summaries.

Core sampling totalled 193 samples. All samples were tested either by gold geochemistry or assay and most received 32 element I.C.P. analysis. All samples were processed by Chemex Labs Ltd. of North Vancouver.

Drill core recovery was generally very good (90-100%) with all ten holes drilled to desired depths.

Drilling Results

1. Holes ST 89-01, 02, 03, 07

Holes ST 89-01, 02, 03 were drilled on a 180° azimuth, all at 45° dip. The holes were drilled to test the nature of a strong I.P. anomaly as determined by recent surveys.

Lithologies consist of fresh to locally hornfelsed fine grain andesite tuffs. The tuffs are frequently cut by biotite lamprophyre and feldspar porphyry dykes and sills. Granodiorite and diorite dykes and sills also cut the tuffs with greater frequency and thickness towards the immediate volcanic-intrusive contact.

Evidence of faulting or extensive alteration is virtually absent. Silicification or quartz veining is negligible. Sporadic occurrences of weak pyrite (\pm pyrrhotite) occur along dyke contacts and within hornfelsed tuffs.

A 0.7 m interval of siliceous breccia occurs near the bottom of hole ST 89-01 containing 5% disseminated pyrite and scattered galena blebs. This section gave a gold value of 190 ppb.

Holes ST 89-01 and 03 both bottomed in Nelson Intrusives.

Hole ST 89-07 was also drilled to test the I.P. anomaly. This hole was collared in Nelson Intrusives, extending through the

upper 40% of the hole. The lower portion of the hole consisted of variably altered andesite tuffs cut by wide zones of granodiorite and feldspar porphyry.

2. Hole ST 89-04

Drill hole ST 89-04 was drilled to test the possible westward down-dip extension of the weakly gold mineralized breccia zone discovered by Snow-water Resources in the summer of 1989. This hole was also drilled to test the lithologies in the area of the breccia zone. Of the 120.4 m. drilled, the upper 50 metres consisted of fresh unaltered andesite tuffs, with the remainder of the hole in Nelson intrusives. Near their contact with the volcanics, the intrusives contain approximately 25 m of strong fracturing with associated quartz-carbonate veinlets, grading into fresh granodiorite cut by frequent pegmatite veins. Mineralization consists of weak sporadic pyrite, with minor molybdenite occurring within pegmatite veins.

3. Holes ST 89-05, 06, 08

Holes ST 89-05, 06, 08 were drilled to establish and extend the breccia zone as located by Snowwater Resources (Holes E-89-15, 17, 18).

All three holes (05, 06, 08) were collared in andesite tuffs and all contained fracture-alteration-breccia zones of variable intensity. Intrusive dyking is negligible in holes ST 89-05 and 06, while hole No. 08 contains extensive feldspar porphyry near the volcanic-intrusive contact.

Holes 05 and 06 show the most extensive zones of fracturing, alteration, pyrite and brecciation related to what is believed to be a strong regional shear. In areas of strongest gold mineralization, tuffaceous rocks have been locally silicified carrying elevated values in pyrite, often associated with intense limonite coatings.

Areas of strong bleaching and clay alteration occur in areas of strongest fracturing. Hanging wall rocks adjacent to the fracture-breccia zone contain narrow sporadic zones of anhydrite > quartz matrix breccia, while footwall rocks exhibit pervasive chlorite, calcite alteration.

While hole ST 89-08 did contain sporadic zones of anhydrite breccia, a lack of a strong localizing structure is the probable cause of low gold values in this hole.

The sections of economic interest, particularly in holes ST 89-05 and 06, may relate to a larger, yet to be discovered source of mineralization. At present, the breccia zone is a prime economic target on the Whitewater property.

4. Holes ST 89-09, 10

Both holes 9 and 10 were drilled entirely within Nelson intrusives (granodiorite). Minor biotite lamprophyre and narrow mafic dykes cut the intrusives. These holes were drilled to test the down-dip extensions of mineralized quartz veins which occur in the Whitewater adits.

Only narrow quartz veins (< 0.5 m.) were encountered carrying variable disseminated pyrite. Gold values were generally low and erratic.

Hole ST-09 contained zones of localized weak potassic alteration with increasing intensity towards a fault zone in the lower part of the hole. The fault intersection measured approximately 7.0 metres, containing strongly clay altered and locally pyritized silicified zones. Gold values for hole #9 were negligible.

Hole ST 89-10 consisted of a monotonous sequence of Nelson granodiorite with no recognizable structural features. Alteration was of minor importance as were quartz veins that were narrow and erratic in extent.

6.0 RECOMMENDATIONS

6.1 RECOMMENDED PROGRAM - 1990

Exploration on the Whitewater property has resulted in the development of at least three specific exploration targets.

The prime exploration target is the newly discovered breccia-fracture zone located near the northwest corner of Snowwater 4 mineral claim. The low grade gold bearing zone occurs within altered andesite tuffs of the Rossland Group in proximity to Nelson intrusive rocks. This zone needs to be followed out along strike to better assess its economic potential.

A secondary exploration target is the accumulation of high grade float occurring along the banks of Snowwater Creek, southeast of the Whitewater adits. The size and distribution of these boulders suggest that the source is a vein of up to 1.5 m. in width, which is probably located on the west side of the creek. Assay values from this material are consistently high with some grades exceeding 7 oz/ton gold. Until the source is located, there

is no way to estimate the possible extent of the vein. The area of the high grade float boulders has received extensive drilling with negligible results, thus suggesting a source removed from float boulder accumulations.

The third exploration target on the Whitewater property is the area of high grade (gold associated with pyrite) mineralization in quartz veins as found in the Whitewater adits.

The adit area has received considerable exploration for many years with no additions to the minor present reserves. Further exploration/drilling near the Whitewater adits is not recommended at this time, however regional structures possibly related to mineralization at the Whitewater should be investigated.

The following success contingent exploration program for 1990 is proposed.

1. Linecutting and I.P. Surveys

Approximately 10 km of grid lines should be added to the existing grid. These lines should extend at least 1 km south of the baseline at 100 m. spacing between lines 8+00W and 17+00W. Subsequent I.P. surveys should be carried out to delineate possible mineralized structures.

2. Heavy Mineral Stream Sampling

A program of heavy mineral stream sampling should be carried out on all drainages throughout the Whitewater property. The sampling could provide a focus for precious mineral exploration. Anomalous areas should be followed up by detailed prospecting and possible trenching.

3. Diamond Drilling

A program of diamond drilling should be resumed to delineate the known breccia zone on the northeast part of the Whitewater property. As this is a strong, well defined structure carrying low grade mineralization, its potential should be determined.

A first priority will be to follow the northern extension of the zone, as gold values appear to be increasing in this direction.

A secondary drill target is the prominent north-south trending regional fault which occurs along the east boundary of Snowater 3 Claim, near the northwest corner

of Snowater 2. A drill hole by Snow-water Resources (88-W-07), drilled east of this regional fault structure encountered a serpentized unit at the bottom of the hole. The serpentized unit was not fully penetrated, and may require further investigation as to its relationship to the regional fault structure. This major fault structure may have implications for controls on mineralization in the area of the Whitewater adits.

6.2 EXPENDITURES

1.	Linecutting 10 km @ 400	\$ 4,000	.
2.	I.P. Survey 10 days @ 1375/day Interpretation, report preparation		13,750 1,800
3.	Heavy Mineral Sampling Survey (Labour, Assaying, Helicopter support)		6,750
4.	Diamond Drilling 1000 m @ \$61.45/m		61,450
5.	Geological mapping and logging 40 days @ 250/day		10,000
6.	Assays (drilling) 150 @ \$15/sample		<u>2,250</u>
		Total	\$ <u>100,000</u>

7.0 STATEMENT OF EXPENDITURES - 19891. Labour

Greg Thomson, Geologist		
100 days @ 250.25/day	\$ 25,025.00	
Tom Delaney, Geologist		
44 days @ 207.35/day	9,123.40	
Carol Lormand, Geologist		
14 days @ 207.35/day	2,902.90	
Ben Nyhuis, Core Splitter		
7.5 days @ 143.00/day	1,072.50	
Fred Daley, Project Supervisor		
16 days @ 255.15/day	<u>4,082.40</u>	\$ 42,206.20

2. Diamond Drilling

Phil's Diamond Drilling		
(1586.2m @ \$61.45/m)		97,473.20

3. Geophysics

I.P. and Resistivity Survey		
12.5 days @ 1375/day	17,187.50	
Magnetometer Survey		
34.6 km @ \$90/km	3,114.00	
Interpretation, Report preparation, (mark-up), plotting, mob-demob	<u>5,951.65</u>	26,253.15

4. Linecutting

42.2 km @ \$407/km	17,175.40	
Supplies, mark-up	<u>3,047.19</u>	20,222.59

5. Assaying

39 Rock samples)		
) @ 26.16/sample		
193 drill core samples)		
(Au analysis and 32 element I.C.P.) Chemex Labs. Ltd.		6,069.05

6. Living

Food and Accommodation	7,558.59	
Travel and Transportation	<u>7,982.55</u>	15,541.14

7. Field Equipment and Supplies 2,304.608. Core Storage Facility - Nelson

\$400 / month x 5		2,200.00
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9. Miscellaneous Expenses

Telephone	1,320.23	
Freight and Shipping	133.17	
Snow Removal and Sanding	2,831.18	
Maps and Prints	1,024.95	
Office Expenses	220.63	
Drafting	784.00	
Typing	<u>200.00</u>	6,514.16

GRAND TOTAL**\$ 218,784.09**

8.0 STATEMENT OF QUALIFICATIONS

I, Gregory R. Thomson, hereby certify that:

1. I am currently employed as a geologist by Teck Explorations Ltd. with offices at #960-175 Second Ave., Kamloops, B.C.
2. I graduated from the University of British Columbia in 1970 with a major in Geology.
3. I have worked continuously as a geologist in British Columbia.
4. The work described herein was done under my direct supervision.

A handwritten signature in cursive script, reading "G. R. Thomson", is written above a horizontal line.

G. R. Thomson

9.0 BIBLIOGRAPHY

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Personal Communication.

APPENDIX A

Analytical Results

(Rock, drill core)



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Page No. 1-A
Tot. Pages: 1
Date: 26-OCT-89
Invoice #: I-8928605
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8928605

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Au FA	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			RUSH	oz/T	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
467501	255	238	400	—	0.39	0.4	15	30	< 0.5	< 2	0.26	< 0.5	3	176	2	1.59	< 10	< 1	0.18	< 10	0.12
467502	255	238	840	—	0.29	0.4	10	10	< 0.5	6	0.09	0.5	4	224	10	2.14	< 10	< 1	0.05	< 10	0.09
467503	255	238	5840	—	0.67	0.8	10	50	< 0.5	214	0.21	3.0	9	237	52	2.40	< 10	< 1	0.24	10	0.22
467504	255	238	3500	—	0.22	2.8	10	20	< 0.5	10	0.05	5.5	4	283	8	2.18	< 10	< 1	0.07	< 10	0.03
467505	255	238	2630	—	0.27	3.4	10	30	< 0.5	10	0.04	4.5	3	192	4	1.95	< 10	< 1	0.14	< 10	0.04
467506	255	238	3820	—	0.48	4.8	25	50	< 0.5	12	0.12	2.5	4	328	8	2.77	< 10	< 1	0.26	< 10	0.06
467507	255	238	2300	—	0.74	1.8	85	40	< 0.5	8	0.44	4.5	11	269	12	4.35	< 10	< 1	0.11	10	0.63
467508	255	238	1880	—	1.12	1.0	45	10	< 0.5	6	1.26	4.0	6	303	124	3.25	< 10	< 1	0.01	10	0.18
467509	255	238	250	—	0.06	1.0	10	10	< 0.5	4	0.02	0.5	1	319	3	0.68	< 10	< 1	0.01	< 10	0.01
467510	255	238	10	—	2.96	< 0.2	< 5	10	0.5	< 2	0.88	< 0.5	31	249	18	3.14	10	1	< 0.01	20	5.05
467511	255	238	1360	—	0.22	1.2	< 5	20	< 0.5	< 2	0.07	0.5	2	219	4	1.16	< 10	1	0.07	< 10	0.12
467512	255	238	5060	—	0.04	4.6	35	< 10	< 0.5	12	< 0.01	15.0	1	222	5	0.98	< 10	2	0.01	< 10	< 0.01
467513	255	238	>10000	0.242	0.08	4.8	25	10	< 0.5	6	0.01	2.0	2	371	7	1.70	< 10	< 1	0.02	< 10	0.02
467514	255	238	9750	—	0.11	14.4	40	10	< 0.5	12	0.01	7.0	3	276	16	2.79	< 10	< 1	0.05	< 10	0.01
467515	255	238	>10000	1.660	0.11	27.4	< 5	10	< 0.5	2	0.02	10.0	2	250	37	2.67	< 10	2	< 0.01	< 10	0.04
467516	255	238	1600	—	1.30	0.4	5	70	< 0.5	< 2	0.93	9.5	7	164	10	3.26	< 10	2	0.42	10	0.61
467517	255	238	80	—	0.81	< 0.2	< 5	60	< 0.5	< 2	1.48	8.0	7	139	7	2.75	< 10	1	0.34	20	0.53
467518	255	238	145	—	1.13	0.2	5	50	< 0.5	< 2	1.17	9.5	7	194	5	2.56	< 10	3	0.25	10	0.47
467519	255	238	30	—	1.26	< 0.2	< 5	40	< 0.5	< 2	1.95	2.0	9	72	2	3.08	< 10	3	0.22	10	0.76
467520	255	238	3100	—	0.67	1.4	5	40	< 0.5	4	0.61	9.5	6	138	9	2.42	< 10	< 1	0.30	10	0.28

CERTIFICATION :

B. Coughlin



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CERTIFICATE OF ANALYSIS A8928605

SAMPLE DESCRIPTION	PREP CODE		Mn	Mb	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
467501	255	238	120	11	0.01	3	300	2	< 5	< 1	21	0.02	< 10	< 10	8	< 10	20
467502	255	238	265	42	0.01	4	120	8	< 5	< 1	10	0.01	< 10	< 10	7	< 10	18
467503	255	238	545	10	0.01	5	630	20	< 5	1	15	0.03	< 10	< 10	14	< 10	110
467504	255	238	145	15	< 0.01	4	210	68	< 5	< 1	7	< 0.01	< 10	< 10	11	< 10	122
467505	255	238	200	63	0.01	3	180	174	< 5	< 1	6	< 0.01	< 10	< 10	10	< 10	126
467506	255	238	190	24	0.01	7	380	54	< 5	< 1	15	0.01	< 10	< 10	7	< 10	106
467507	255	238	185	26	0.01	14	540	36	< 5	2	50	0.05	< 10	< 10	24	< 10	606
467508	255	238	175	12	< 0.01	7	240	26	< 5	1	115	0.03	< 10	< 10	44	< 10	118
467509	255	238	85	5	< 0.01	7	40	20	< 5	< 1	6	< 0.01	< 10	< 10	2	< 10	22
467510	255	238	635	< 1	< 0.01	298	1190	6	< 5	6	62	0.16	< 10	< 10	46	< 10	64
467511	255	238	130	3	0.01	4	160	4	< 5	< 1	11	0.01	< 10	< 10	9	< 10	36
467512	255	238	25	4	< 0.01	6	20	60	< 5	< 1	2	< 0.01	< 10	< 10	2	< 10	456
467513	255	238	85	6	< 0.01	7	60	34	< 5	< 1	17	< 0.01	< 10	< 10	3	< 10	126
467514	255	238	45	16	< 0.01	4	40	122	< 5	< 1	2	< 0.01	< 10	< 10	1	< 10	316
467515	255	238	55	23	< 0.01	5	70	76	< 5	< 1	2	< 0.01	< 10	< 10	3	< 10	758
467516	255	238	760	10	0.04	3	990	14	< 5	3	67	0.11	< 10	< 10	38	< 10	494
467517	255	238	715	21	0.05	2	890	< 2	< 5	3	85	0.09	< 10	< 10	51	< 10	264
467518	255	238	495	8	0.04	4	790	12	< 5	3	64	0.09	< 10	< 10	42	< 10	526
467519	255	238	620	8	0.05	2	1010	6	< 5	4	93	0.14	< 10	< 10	65	< 10	104
467520	255	238	355	79	0.02	2	500	42	< 5	1	38	0.05	< 10	< 10	16	< 10	350

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
467521	205 238	>10000	0.47	133.0	40	50	< 0.5	194	0.06	13.0	3	136	232	3.68	< 10	< 1	0.22	< 10	0.08	115
467522	205 238	1130	1.72	0.6	15	120	< 0.5	< 2	1.24	17.0	11	30	< 1	3.72	< 10	< 1	0.44	10	0.97	895
467523	205 238	1850	1.38	1.6	20	80	< 0.5	12	0.43	8.5	7	24	6	3.58	< 10	1	0.34	10	0.58	575
467524	205 238	>10000	0.38	36.0	50	40	< 0.5	246	0.06	90.0	2	120	< 1	2.83	< 10	< 1	0.19	< 10	0.05	120
467525	205 238	5900	0.26	18.0	25	30	< 0.5	30	0.01	5.0	< 1	214	23	2.10	< 10	< 1	0.13	< 10	0.02	105
467526	205 238	>10000	0.54	22.6	35	60	< 0.5	116	0.16	42.5	5	165	40	3.80	< 10	< 1	0.24	< 10	0.14	240
467527	205 238	8300	0.09	10.8	70	< 10	< 0.5	22	< 0.01	2.0	1	144	4	4.15	< 10	< 1	0.02	< 10	< 0.01	25
467528	205 238	3000	0.20	4.4	35	20	< 0.5	10	< 0.01	< 0.5	3	224	< 1	2.46	< 10	< 1	0.10	< 10	< 0.01	40
467529	205 238	1400	0.09	1.2	15	10	< 0.5	4	< 0.01	< 0.5	2	215	< 1	1.98	< 10	< 1	0.03	< 10	< 0.01	35
467530	205 238	320	0.62	0.6	< 5	70	< 0.5	< 2	0.25	6.5	3	243	< 1	1.88	< 10	< 1	0.36	< 10	0.18	390
467531	205 238	2900	0.11	2.2	45	10	< 0.5	< 2	< 0.01	< 0.5	1	263	< 1	2.52	< 10	< 1	0.03	< 10	0.01	50
467532	205 238	40	0.91	< 0.2	< 5	30	< 0.5	4	0.49	< 0.5	4	173	< 1	1.26	< 10	< 1	0.10	< 10	0.36	270
SP-002	205 238	15	0.92	< 0.2	20	20	< 0.5	< 2	0.21	< 0.5	4	126	< 1	1.98	< 10	3	0.06	< 10	0.43	230
B119	205 238	320	2.48	0.6	25	80	< 0.5	< 2	1.79	< 0.5	17	85	177	4.11	< 10	< 1	0.16	< 10	0.35	165
ZEGH SHAFT QZ	205 238	< 5	0.17	1.0	10	20	< 0.5	< 2	0.02	< 0.5	16	189	232	2.94	< 10	< 1	0.02	< 10	0.02	125

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SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
467521	205	238	45	0.01	1	350	710	5	1	24	0.03	< 10	< 10	6	< 10	698
467522	205	238	5	0.11	3	1440	14	5	4	68	0.15	< 10	< 10	62	< 10	994
467523	205	238	4	0.06	2	1350	100	< 5	4	33	0.13	< 10	< 10	38	< 10	584
467524	205	238	26	0.01	< 1	340	134	< 5	< 1	8	0.01	< 10	< 10	3	< 10	2510
467525	205	238	20	0.01	2	210	716	< 5	< 1	4	0.01	< 10	< 10	2	< 10	286
467526	205	238	14	0.02	1	340	230	< 5	1	14	0.04	10	< 10	5	< 10	1175
467527	205	238	43	0.01	1	60	78	< 5	< 1	1	< 0.01	< 10	< 10	< 1	< 10	88
467528	205	238	131	0.01	2	60	36	< 5	< 1	3	< 0.01	< 10	< 10	< 1	< 10	34
467529	205	238	64	0.01	3	70	36	< 5	< 1	1	< 0.01	< 10	< 10	2	< 10	18
467530	205	238	26	0.01	3	360	28	< 5	1	15	0.02	< 10	< 10	9	< 10	182
467531	205	238	26	0.01	5	60	10	< 5	< 1	2	< 0.01	< 10	< 10	< 1	< 10	28
467532	205	238	1	0.08	5	380	< 2	< 5	2	54	0.07	< 10	< 10	35	< 10	24
SF-002	205	238	3	0.04	8	220	8	< 5	3	43	0.07	< 10	< 10	38	< 10	18
S119	205	238	4	0.25	14	920	22	< 5	3	106	0.15	< 10	< 10	75	< 10	66
ZRCN SHAFT QZ	205	238	157	0.01	4	90	4	< 5	< 1	2	< 0.01	< 10	< 10	5	< 10	8

CERTIFICATION: B. Coughlin



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CERTIFICATE OF ANALYSIS A8929366

SAMPLE DESCRIPTION	PREP CODE	Au FA oz/T							
467521	214 --	4.094							
467524	214 --	1.080							
467526	214 --	0.962							

CERTIFICATION : *H. Stan Amari*



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CERTIFICATE OF ANALYSIS A9010569

SAMPLE DESCRIPTION	PREP CODE	Au FA oz/T							
467501	214 ---	0.020							
467502	214 ---	0.028							
467503	214 ---	0.121							
467504	214 ---	0.108							
467505	214 ---	0.096							
467506	214 ---	0.140							
467507	214 ---	0.109							
467508	214 ---	0.064							
467509	214 ---	0.014							
467510	214 ---	0.006							
467511	214 ---	0.032							
467512	214 ---	0.148							
467513	214 ---	0.320							
467514	214 ---	0.376							
467515	214 ---	1.562							
467516	214 ---	0.072							
467517	214 ---	0.008							
467518	214 ---	0.004							
467519	214 ---	0.006							
467520	214 ---	0.049							
467521	214 ---	4.504							
467522	214 ---	0.014							
467523	214 ---	0.034							
467524	214 ---	0.946							
467525	214 ---	0.244							
467526	214 ---	0.774							
467527	214 ---	0.274							
467528	214 ---	0.108							
467529	214 ---	0.038							
467530	214 ---	0.010							
467531	214 ---	0.116							
467532	214 ---	0.004							
SF-002	214 ---	0.010							
S119	214 ---	0.004							
2E6N SHAFT QZ	214 ---	0.004							
72608	214 ---	0.008							
72609	214 ---	0.014							
72611	214 ---	0.124							
72615	214 ---	0.048							
72616	214 ---	0.066							

CERTIFICATION : *W. Ben Ammin*



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TECK EXPLORATION LTD.

960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1

Project : 1379

Comments: ATTN: F. DALEY

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Invoice # : I-8930136
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8930136

SAMPLE DESCRIPTION	PREP CODE	Au ppb RUSH							
467601	255 ---	< 5							
467602	255 ---	< 5							
467603	255 ---	< 25							
467604	255 ---	< 5							
467605	255 ---	< 5							
467606	255 ---	< 5							
467607	255 ---	< 5							
467608	255 ---	< 5							
467609	255 ---	< 5							
467610	255 ---	< 5							
467611	255 ---	< 5							
467612	255 ---	< 5							
467613	255 ---	< 5							
467614	255 ---	< 5							
467615	255 ---	< 5							
467616	255 ---	< 5							
467617	255 ---	< 5							
467618	255 ---	< 5							
467619	255 ---	< 5							
467620	255 ---	< 5							
467621	255 ---	< 5							
467622	255 ---	< 5							
467623	255 ---	< 5							
467624	255 ---	< 5							
467625	255 ---	< 5							
467626	255 ---	< 5							
467627	255 ---	< 5							
467628	255 ---	< 5							
467629	255 ---	< 5							
467630	255 ---	< 5							
467631	255 ---	< 5							
467632	255 ---	< 5							
467633	255 ---	< 5							
467634	255 ---	< 5							
467635	255 ---	< 5							
467636	255 ---	< 5							
467637	255 ---	< 5							
467638	255 ---	< 5							
467639	255 ---	< 5							
467640	255 ---	< 5							

CERTIFICATION : Thish Vmk



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CERTIFICATE OF ANALYSIS A8930136

SAMPLE DESCRIPTION	PREP CODE	Au ppb RUSH								
467641	255	---	<	5						
467642	255	---	<	5						
467643	255	---	<	5						
467644	255	---	<	5						
467645	255	---	<	5						
467646	255	---	<	5						
467647	255	---	<	5						
467648	255	---	<	5						
467649	255	---	<	5						
467650	255	---	<	190						
467651	255	---	<	5						
467652	255	---	<	5						
467654	255	---	<	20						

CERTIFICATION : *Frank Vank*



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To: **CK EXPLORATION LTD.**

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Project : 1379

Comments: ATTN: FRED DALEY

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Tot. Pages: 1
Date : 21-NOV-89
Invoice # : I-8930535
P.O. # :

CERTIFICATE OF ANALYSIS A8930535

SAMPLE DESCRIPTION	PREP CODE	Au ppb RUSH									
467653 H	255	---	550								
467655 H	255	---	10								
467656 H	255	---	10								
467657 H	255	---	5								
467658 H	255	---	15								
467659 H	255	---	< 5								
467660 H	255	---	<< 5								
467661 H	255	---	<<< 5								
467662 H	255	---	<<<< 5								
467663 H	255	---	<<<<< 5								
467664 H	255	---	25								
467665 H	255	---	35								
467666 H	255	---	15								
467667 H	255	---	25								
467668 H	255	---	5								
467669 H	255	---	15								
467670 H	255	---	5								
467671 H	255	---	20								
467672 H	255	---	15								
467673 H	255	---	360								
467674 H	255	---	55								
467675 H	255	---	30								
467676 H	255	---	5								
467677 H	255	---	< 5								

CERTIFICATION : Theresa Vonk



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Project : 1379

Comments: ATTN: FRED DALEY

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Tot. Pages: 1
Date : 25-NOV-89
Invoice # : I-8930536
P.O. # :

CERTIFICATE OF ANALYSIS A8930536

SAMPLE DESCRIPTION	PREP CODE		Au oz/T RUSH	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	467678 H	258	238	0.006	1.88	< 0.2	< 5	40	< 0.5	< 2	1.14	< 0.5	13	57	34	3.72	< 10	< 1	0.14	< 10	1.22
467679 H	258	238	< 0.002	2.14	< 0.2	< 5	60	< 0.5	< 2	0.85	< 0.5	16	74	8	4.61	< 10	< 1	0.26	< 10	1.55	725
467680 H	258	238	< 0.002	2.52	< 0.2	< 5	50	< 0.5	< 2	1.16	< 0.5	19	51	10	4.81	< 10	< 1	0.21	< 10	1.90	805
467681 H	258	238	0.002	3.00	< 0.2	< 5	60	< 0.5	< 2	1.13	< 0.5	21	41	23	4.84	< 10	< 1	0.20	< 10	2.26	995
467682 H	258	238	0.012	2.63	< 0.2	< 5	30	< 0.5	< 2	1.85	< 0.5	21	32	14	4.97	< 10	< 1	0.22	< 10	2.52	1040
467683 H	258	238	0.007	2.90	< 0.2	< 5	90	< 0.5	< 2	1.40	0.5	21	38	1	5.35	< 10	< 1	0.37	< 10	2.61	1185
467684 H	258	238	0.004	2.20	< 0.2	< 5	90	< 0.5	< 2	1.45	< 0.5	20	27	8	4.55	< 10	< 1	0.23	< 10	2.15	840
467685 H	258	238	< 0.002	1.92	< 0.2	< 5	50	< 0.5	< 2	1.01	< 0.5	18	37	10	4.16	< 10	< 1	0.17	< 10	1.75	705
467686 H	258	238	< 0.002	2.73	< 0.2	< 5	20	< 0.5	< 2	1.47	< 0.5	12	67	7	2.80	< 10	< 1	0.13	< 10	1.13	565
467687 H	258	238	< 0.002	2.13	< 0.2	< 5	70	< 0.5	< 2	1.30	0.5	17	41	16	3.77	< 10	< 1	0.16	< 10	1.55	665
467688 H	258	238	< 0.002	2.08	< 0.2	< 5	20	< 0.5	< 2	1.62	< 0.5	14	57	17	2.78	< 10	< 1	0.12	< 10	1.18	510
467689 H	258	238	0.004	2.51	< 0.2	< 5	20	< 0.5	< 2	1.50	0.5	7	83	14	1.81	< 10	< 1	0.11	< 10	0.56	370
467690 H	258	238	0.017	3.93	0.4	10	20	0.5	< 2	1.97	< 0.5	12	41	12	3.12	< 10	< 1	0.16	< 10	0.85	525
467691 H	258	238	0.014	3.10	< 0.2	< 5	40	< 0.5	< 2	1.16	0.5	19	28	22	4.98	< 10	< 1	0.20	< 10	1.98	935
467692 H	258	238	0.033	2.10	0.4	20	20	< 0.5	< 2	0.71	< 0.5	14	58	5	3.46	< 10	< 1	0.14	< 10	1.57	655
467693 H	258	238	0.039	2.11	0.4	< 5	20	< 0.5	2	0.74	0.5	11	84	21	2.80	< 10	< 1	0.13	< 10	1.31	545
467694 H	258	238	0.025	1.28	0.6	< 5	20	< 0.5	2	0.47	0.5	7	128	17	1.86	< 10	< 1	0.08	< 10	0.74	345
467695 H	258	238	< 0.002	1.44	< 0.2	< 5	30	< 0.5	4	0.97	1.0	10	107	18	2.92	< 10	< 1	0.15	< 10	1.07	425
467696 H	258	238	< 0.002	1.90	< 0.2	< 5	30	< 0.5	< 2	1.84	0.5	16	108	119	3.80	< 10	< 1	0.14	< 10	1.43	705
467697 H	258	238	< 0.002	2.47	< 0.2	< 5	40	< 0.5	< 2	2.65	0.5	18	89	17	4.48	< 10	< 1	0.10	< 10	2.07	1055
467698 H	258	238	< 0.002	3.05	< 0.2	< 5	10	< 0.5	< 2	4.83	1.0	26	156	64	5.56	< 10	< 1	0.06	< 10	3.24	1485
467699 H	258	238	< 0.002	1.69	< 0.2	< 5	10	< 0.5	2	5.44	< 0.5	10	43	49	3.37	< 10	< 1	0.09	< 10	1.35	880
467700 H	258	238	< 0.002	2.43	< 0.2	< 5	10	< 0.5	< 2	4.01	< 0.5	18	73	130	4.53	< 10	< 1	0.07	< 10	2.10	1000
467701 H	258	238	< 0.002	3.32	< 0.2	< 5	10	< 0.5	< 2	4.33	0.5	24	94	48	5.56	< 10	< 1	0.05	< 10	3.65	1375
467702 H	258	238	< 0.002	2.64	< 0.2	< 5	10	< 0.5	< 2	4.68	< 0.5	18	67	33	4.71	< 10	< 1	0.07	< 10	2.55	1220
467703 H	258	238	< 0.002	3.24	< 0.2	< 5	< 10	< 0.5	< 2	5.40	< 0.5	19	87	5	5.28	< 10	< 1	0.06	< 10	3.55	1295
467704 H	258	238	< 0.002	2.26	< 0.2	< 5	10	< 0.5	< 2	2.93	< 0.5	11	98	15	3.45	< 10	< 1	0.06	< 10	2.37	930
467705 H	258	238	< 0.002	1.91	< 0.2	< 5	20	< 0.5	< 2	4.03	< 0.5	11	74	< 1	3.04	< 10	1	0.07	< 10	1.92	825
467706 H	258	238	0.002	8.04	< 0.2	10	10	< 0.5	4	5.04	< 0.5	6	9	4	1.49	< 10	3	0.11	< 10	0.73	325

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 KAMLOOPS, BC
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Project : 1379

Comments: ATTN: FRED DALEY

Page No. 1-B
 Tot. Pages: 1
 Date : 25-NOV-89
 Invoice #: 1-8930536
 P.O. # :

CERTIFICATE OF ANALYSIS A8930536

SAMPLE DESCRIPTION	PREP CODE		Mb	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
467678 H	258	238	1	0.03	3	770	4	< 5	7	77	0.21	< 10	< 10	120	< 10	50
467679 H	258	238	1	0.04	5	750	< 2	< 5	10	50	0.23	< 10	< 10	142	< 10	64
467680 H	258	238	1	0.08	5	870	< 2	< 5	9	87	0.29	< 10	< 10	170	< 10	78
467681 H	258	238	1	0.03	7	860	< 2	< 5	13	118	0.30	< 10	< 10	158	10	82
467682 H	258	238	1	0.03	8	770	2	< 5	15	58	0.28	< 10	< 10	156	10	88
467683 H	258	238	1	< 0.01	6	710	8	< 5	8	29	0.16	< 10	< 10	88	10	104
467684 H	258	238	1	0.04	7	940	< 2	< 5	9	221	0.22	< 10	< 10	143	10	80
467685 H	258	238	< 1	0.04	8	870	< 2	< 5	9	168	0.24	< 10	< 10	158	< 10	76
467686 H	258	238	1	0.01	4	460	< 2	< 5	7	115	0.15	< 10	< 10	78	< 10	44
467687 H	258	238	1	0.03	7	870	4	< 5	9	211	0.23	< 10	< 10	133	< 10	60
467688 H	258	238	< 1	0.02	8	800	< 2	< 5	6	125	0.20	< 10	< 10	108	< 10	50
467689 H	258	238	1	< 0.01	3	330	< 2	< 5	4	123	0.10	< 10	< 10	39	< 10	28
467690 H	258	238	5	< 0.01	5	480	8	< 5	8	159	0.17	< 10	< 10	96	< 10	50
467691 H	258	238	1	0.01	3	780	6	< 5	11	74	0.29	< 10	< 10	148	10	78
467692 H	258	238	1	0.01	3	530	4	< 5	7	43	0.18	< 10	< 10	87	< 10	60
467693 H	258	238	< 1	0.01	8	440	< 2	< 5	5	54	0.12	< 10	< 10	64	< 10	48
467694 H	258	238	2	0.01	12	240	6	< 5	4	40	0.09	< 10	< 10	45	< 10	30
467695 H	258	238	6	0.02	15	520	12	< 5	5	31	0.14	< 10	< 10	73	< 10	64
467696 H	258	238	4	0.04	17	750	28	< 5	10	82	0.21	< 10	< 10	121	< 10	74
467697 H	258	238	1	0.02	12	1020	10	< 5	16	144	0.22	< 10	< 10	128	10	86
467698 H	258	238	1	0.03	28	1360	4	< 5	20	121	0.28	< 10	< 10	181	10	98
467699 H	258	238	1	0.03	7	820	10	5	9	104	0.20	< 10	< 10	107	< 10	58
467700 H	258	238	1	0.02	18	940	6	5	13	116	0.23	< 10	< 10	136	10	76
467701 H	258	238	1	0.01	23	1020	12	5	19	105	0.23	< 10	< 10	163	10	108
467702 H	258	238	3	0.03	13	1070	10	5	15	111	0.22	< 10	< 10	134	10	86
467703 H	258	238	< 1	0.02	21	1040	< 2	< 5	15	123	0.22	< 10	< 10	166	10	92
467704 H	258	238	< 1	0.01	13	670	2	< 5	12	86	0.17	< 10	< 10	114	< 10	64
467705 H	258	238	< 1	0.02	10	600	6	5	10	74	0.16	< 10	< 10	81	< 10	56
467706 H	258	238	1	< 0.01	< 1	230	6	10	3	327	0.07	< 10	< 10	36	< 10	30

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TECK EXPLORATION LTD.

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Project : 1379
 Comments: ATTN: FRED DALEY

Page No. : 1-A
 Tot. Pages : 1
 Date : 27-NOV-89
 Invoice # : I-8930795
 P.O. # :

CERTIFICATE OF ANALYSIS A8930795

SAMPLE DESCRIPTION	PREP CODE	Au oz/T RUSH	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
467707	236 238	< 0.002	2.03	0.2	30	50	0.5	< 2	2.27	< 0.5	18	4	4	3.72	< 10	< 1	0.23	< 10	1.51	660
467708	236 238	0.004	2.37	0.2	25	50	0.5	< 2	1.50	< 0.5	21	8	3	4.49	< 10	< 1	0.23	< 10	2.00	790
467709	236 238	0.009	1.78	0.4	20	70	0.5	< 2	0.62	< 0.5	12	16	8	3.26	< 10	< 1	0.17	< 10	1.17	665
467710	236 238	0.020	2.64	1.6	35	40	0.5	< 2	1.29	< 0.5	11	13	4	2.84	< 10	< 1	0.15	< 10	0.97	610
467711	236 238	0.045	1.43	1.0	10	30	0.5	< 2	0.45	< 0.5	10	18	5	2.78	< 10	< 1	0.14	< 10	0.92	485
467712	236 238	< 0.002	1.52	0.4	35	30	0.5	< 2	0.77	< 0.5	12	27	52	3.16	< 10	< 1	0.14	< 10	1.07	550
467713	236 238	< 0.002	2.39	0.2	< 5	10	0.5	< 2	1.57	< 0.5	18	69	37	4.49	< 10	< 1	0.08	10	2.12	930
467714	236 238	< 0.002	2.94	< 0.2	35	30	0.5	< 2	3.99	< 0.5	20	233	33	4.61	< 10	< 1	0.10	10	2.93	1140
467715	236 238	< 0.002	3.07	< 0.2	35	30	0.5	< 2	4.22	< 0.5	23	233	34	4.99	< 10	< 1	0.11	< 10	3.14	1135
467716	236 238	< 0.002	2.33	< 0.2	< 5	20	0.5	< 2	4.37	0.5	16	17	27	4.43	< 10	< 1	0.14	< 10	1.84	905
467717	236 238	< 0.002	2.32	< 0.2	25	30	0.5	< 2	2.97	< 0.5	16	8	14	4.52	< 10	< 1	0.16	< 10	1.83	890
467718	236 238	< 0.002	2.22	< 0.2	25	30	0.5	< 2	2.33	< 0.5	16	9	22	4.21	< 10	< 1	0.16	< 10	1.67	805
467719	236 238	< 0.002	2.36	< 0.2	25	10	0.5	< 2	3.57	< 0.5	15	12	26	4.14	< 10	< 1	0.12	< 10	1.86	840

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TECK EXPLORATION LTD.

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V2C 5W1

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CERTIFICATE OF ANALYSIS A8930795

SAMPLE DESCRIPTION	PREP CODE		Mb	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
467707	236	238	< 1	0.08	9	790	2	185	9	101	0.20	< 10	< 10	147	< 10	62
467708	236	238	< 1	0.07	10	800	< 2	55	9	71	0.21	< 10	< 10	137	< 10	74
467709	236	238	1	0.06	9	510	< 2	35	8	53	0.18	< 10	< 10	86	< 10	50
467710	236	238	2	0.02	6	490	< 2	15	6	83	0.14	< 10	< 10	62	< 10	48
467711	236	238	3	0.03	11	400	< 2	10	5	38	0.12	< 10	< 10	64	< 10	40
467712	236	238	1	0.04	10	570	< 2	10	5	44	0.16	< 10	< 10	73	< 10	52
467713	236	238	< 1	0.03	23	1360	6	5	10	63	0.26	< 10	< 10	115	< 10	86
467714	236	238	< 1	0.05	48	2750	< 2	10	10	128	0.34	< 10	< 10	111	< 10	104
467715	236	238	< 1	0.06	31	2460	< 2	10	13	174	0.36	< 10	< 10	129	< 10	104
467716	236	238	< 1	0.05	7	740	< 2	5	10	115	0.26	< 10	< 10	118	< 10	66
467717	236	238	< 1	0.06	7	720	< 2	10	10	97	0.25	< 10	< 10	117	< 10	62
467718	236	238	< 1	0.06	6	640	< 2	10	9	95	0.26	< 10	< 10	113	< 10	62
467719	236	238	2	0.03	7	680	2	600	9	114	0.26	< 10	< 10	110	< 10	66

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To: TECK EXPLORATION LTD.

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KAMLOOPS, BC
V2C 5W1

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Comments: ATTN: FRED DALEY

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CERTIFICATE OF ANALYSIS A8930925

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA									
467726	205 ---	25									
467727	205 ---	15									
467728	205 ---	< 5									
467729	205 ---	10									
467730	205 ---	15									

DEC 5 1989

CERTIFICATION: *Mark Vornh*



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PHONE (604) 984-0221

TECK EXPLORATION LTD.

960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1

Project : 1179

Comments: ATTN: FRED DALEY

Page No. : 1-A
Tot. Pages: 1
Date : 3-DEC-89
Invoice # : I-8930924
P.O. # :

CERTIFICATE OF ANALYSIS A8930924

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
467720	207 238	< 0.002	2.10	< 0.2	20	30	< 0.5	< 2	4.44	< 0.5	15	34	23	3.83	< 10	< 1	0.19	< 10	1.68	805
467721	207 238	< 0.002	3.02	< 0.2	45	30	< 0.5	< 2	3.17	< 0.5	21	119	28	4.78	< 10	< 1	0.11	< 10	3.29	980
467722	207 238	< 0.002	2.30	0.2	85	20	< 0.5	4	1.62	< 0.5	15	51	42	4.44	< 10	< 1	0.10	10	1.78	810
467723	207 238	< 0.002	3.37	< 0.2	20	20	< 0.5	< 2	2.80	< 0.5	24	229	44	5.44	< 10	< 1	0.07	10	4.60	1115
467724	207 238	< 0.002	4.35	< 0.2	25	< 10	< 0.5	< 2	5.43	< 0.5	34	523	19	5.69	< 10	< 1	< 0.01	< 10	7.21	1500
467725	207 238	< 0.002	2.41	< 0.2	25	40	< 0.5	< 2	1.82	< 0.5	16	40	33	4.76	< 10	< 1	0.17	10	2.03	890

CERTIFICATION :

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KAMLOOPS, BC
V2C 5W1

Project : 1379

Comments: ATTN: FRED DALEY

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CERTIFICATE OF ANALYSIS A8930924

SAMPLE DESCRIPTION	PREP CODE		Mb	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
467720	207	238	1	0.04	19	680	< 2	5	9	128	0.22	< 10	< 10	100	< 10	56
467721	207	238	< 1	0.04	100	1270	2	10	14	101	0.31	< 10	< 10	118	< 10	84
467722	207	238	1	0.05	21	750	< 2	10	12	96	0.23	< 10	< 10	108	< 10	82
467723	207	238	1	0.05	155	1330	6	10	16	130	0.29	< 10	< 10	121	< 10	78
467724	207	238	< 1	0.02	328	2330	< 2	10	16	211	0.35	< 10	< 10	115	< 10	130
467725	207	238	< 1	0.06	21	840	4	10	14	121	0.26	< 10	< 10	130	< 10	92

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960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1
Project : 1379
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CERTIFICATE OF ANALYSIS A8931161

SAMPLE DESCRIPTION	PREP CODE	Au ppb RUSH									
467731	255 ---	10									
467732	255 ---	< 5									
467733	255 ---	< 5									
467734	255 ---	15									
467735	255 ---	65									
467736	255 ---	10									
467737	255 ---	20									
467738	255 ---	20									
467739	255 ---	35									
467740	255 ---	15									
467741	255 ---	5									
467742	255 ---	< 5									
467743	255 ---	< 5									
467744	255 ---	< 5									
467745	255 ---	< 5									
467746	255 ---	< 5									

CERTIFICATION :



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KAMLOOPS, BC
V2C 5W1

Project: 1379
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CERTIFICATE OF ANALYSIS A8931266

SAMPLE DESCRIPTION	PREP CODE	Au ppb RUSH										
467751	255	--	<	5								
467752	255	---	<	5								
467753	255	---	<	5								
467754	255	---		20								
467755	255	--		420								
467756	255	--	<	5								
467757	255	---	<	5								
467758	255	---	<	5								
467759	255	---	<	5								
467760	255	--	<	5								
467761	255	---	<	5								
467762	255	---	<	5								
467763	255	---	<	5								
467764	255	---	<	5								
467765	255	--	<	5								
467766	255	---	<	5								
467767	255	---		5								
467768	255	---		5								
467769	255	---	<	5								
467770	255	--	<	5								
467771	255	--	<	5								

CERTIFICATION : Frank Vank



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 PHONE (604) 984-0211

To: TECK EXPLORATION LTD.

960 - 175 2ND AVE.
 KAMLOOPS, BC
 V2C 5W1

Project: 1179
 Comments: ATTN: FRED IMLEY

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CERTIFICATE OF ANALYSIS A8931267

SAMPLE DESCRIPTION	PREP CODE	Au oz/T RUSH	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
467772	236 238	< 0.002	1.24	< 0.2	< 5	20	< 0.5	< 2	0.83	< 0.5	18	14	16	3.39	< 10	< 1	0.07	10	0.97	410
467773	236 238	< 0.002	3.56	< 0.2	< 5	470	< 0.5	< 2	3.14	< 0.5	16	290	3	5.43	20	< 1	1.73	20	4.01	760
467774	236 238	< 0.002	2.45	< 0.2	< 5	110	< 0.5	< 2	2.94	< 0.5	29	67	3	3.93	20	< 1	0.34	30	2.37	555
467775	236 238	< 0.002	2.73	< 0.2	< 5	20	< 0.5	< 2	2.24	< 0.5	55	31	5	4.33	10	< 1	0.05	10	1.13	360
467776	236 238	< 0.002	2.68	< 0.2	< 5	10	< 0.5	< 2	1.65	< 0.5	6	16	1	2.54	10	< 1	0.02	20	2.19	470
467777	236 238	< 0.002	1.84	< 0.2	< 5	10	< 0.5	< 2	1.42	< 0.5	4	7	1	1.84	< 10	< 1	0.04	10	1.05	310
467778	236 238	< 0.002	1.32	< 0.2	< 5	10	< 0.5	< 2	0.81	< 0.5	3	7	1	2.29	< 10	< 1	0.07	10	0.87	325
467779	236 238	< 0.002	0.85	< 0.2	< 5	10	< 0.5	< 2	0.52	< 0.5	8	7	2	2.07	< 10	< 1	0.06	10	0.53	230
467780	236 238	< 0.002	1.07	< 0.2	< 5	20	< 0.5	< 2	0.58	< 0.5	21	9	2	2.70	< 10	< 1	0.08	10	0.64	320
467781	236 238	0.007	1.04	< 0.2	5	10	< 0.5	2	0.84	< 0.5	115	9	5	5.12	< 10	< 1	0.05	10	0.90	325
467782	236 238	< 0.002	1.08	< 0.2	< 5	10	< 0.5	< 2	0.73	< 0.5	13	9	1	2.21	< 10	< 1	0.03	10	0.99	350
467783	236 238	< 0.002	1.13	< 0.2	< 5	10	< 0.5	2	0.57	< 0.5	6	7	1	2.22	< 10	< 1	0.03	10	1.03	320
467784	236 238	< 0.002	1.02	< 0.2	< 5	10	< 0.5	< 2	0.71	< 0.5	10	9	1	2.15	< 10	< 1	0.06	10	0.81	310
467785	236 238	< 0.002	1.16	< 0.2	< 5	10	< 0.5	< 2	0.69	< 0.5	7	9	1	2.27	10	< 1	0.05	10	1.05	320
467786	236 238	< 0.002	3.20	< 0.2	< 5	10	< 0.5	< 2	0.86	< 0.5	4	17	1	4.44	10	< 1	0.03	10	3.43	745
467787	236 238	< 0.002	1.41	< 0.2	< 5	10	< 0.5	< 2	1.26	< 0.5	3	9	2	2.90	10	< 1	0.07	20	1.18	445
467788	236 238	< 0.002	1.65	< 0.2	< 5	10	< 0.5	< 2	1.73	< 0.5	4	10	2	2.41	10	< 1	0.06	10	1.08	385
467789	236 238	< 0.002	1.71	< 0.2	< 5	30	< 0.5	2	1.62	< 0.5	5	12	2	2.65	10	< 1	0.12	20	1.12	405
467790	236 238	< 0.002	1.45	< 0.2	< 5	20	< 0.5	< 2	0.91	< 0.5	45	14	3	3.62	10	< 1	0.08	10	1.19	370
467791	236 238	< 0.002	1.38	< 0.2	< 5	10	< 0.5	< 2	0.97	< 0.5	19	9	1	2.51	10	< 1	0.05	20	1.11	340
467792	236 238	< 0.002	1.28	< 0.2	< 5	20	< 0.5	< 2	0.91	< 0.5	6	9	3	2.82	< 10	< 1	0.09	10	1.01	405
467793	236 238	< 0.002	1.73	< 0.2	< 5	10	< 0.5	< 2	1.81	< 0.5	7	8	2	2.26	10	< 1	0.07	10	0.82	355
467794	236 238	< 0.002	1.43	< 0.2	< 5	20	< 0.5	< 2	0.84	< 0.5	3	12	3	2.63	< 10	< 1	0.08	20	1.28	400

CERTIFICATION :

B. Coughlin



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PHONE (604) 984-0221

To: TECK EXPLORATION LTD.

960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1

Project : 1379

Comments: ATTN: FRED DALEY

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Date : 7-DEC-89

Invoice # : I-8931267

P.O. #

CERTIFICATE OF ANALYSIS A8931267

SAMPLE DESCRIPTION	PREP CODE	Mb ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
467772	236 238	< 1	0.03	27	970	6	< 5	5	91	0.11	< 10	< 10	68	< 10	36
467773	236 238	< 1	0.04	155	2440	< 2	< 5	13	91	0.39	< 10	< 10	151	< 10	74
467774	236 238	< 1	0.04	77	2610	6	< 5	9	144	0.27	< 10	< 10	102	< 10	54
467775	236 238	2	0.03	52	980	16	< 5	4	312	0.13	< 10	< 10	79	< 10	44
467776	236 238	< 1	0.02	63	2710	6	< 5	4	207	0.12	< 10	< 10	60	< 10	54
467777	236 238	< 1	0.03	28	880	2	< 5	3	143	0.09	< 10	< 10	51	< 10	28
467778	236 238	< 1	0.04	19	700	< 2	< 5	3	78	0.08	< 10	< 10	48	< 10	30
467779	236 238	< 1	0.03	13	460	2	< 5	1	68	0.06	< 10	< 10	34	< 10	22
467780	236 238	< 1	0.03	15	850	4	< 5	3	68	0.08	< 10	< 10	57	< 10	26
467781	236 238	2	0.03	55	780	< 2	< 5	2	55	0.05	< 10	< 10	45	< 10	38
467782	236 238	< 1	0.02	24	1010	4	< 5	2	77	0.05	< 10	< 10	41	< 10	32
467783	236 238	< 1	0.01	20	890	4	< 5	2	131	0.05	< 10	< 10	45	< 10	32
467784	236 238	< 1	0.03	15	910	4	< 5	2	142	0.07	< 10	< 10	43	< 10	30
467785	236 238	< 1	0.03	26	940	< 2	< 5	3	149	0.08	< 10	< 10	43	< 10	32
467786	236 238	< 1	0.02	90	900	< 2	< 5	6	94	0.09	< 10	< 10	86	< 10	78
467787	236 238	< 1	0.03	24	1010	2	< 5	4	100	0.11	< 10	< 10	63	< 10	40
467788	236 238	< 1	0.03	27	920	4	< 5	3	141	0.09	< 10	< 10	59	< 10	34
467789	236 238	< 1	0.07	27	1050	< 2	< 5	5	204	0.15	< 10	< 10	63	< 10	36
467790	236 238	3	0.05	46	980	4	< 5	4	139	0.12	< 10	< 10	54	< 10	40
467791	236 238	< 1	0.03	36	1100	6	< 5	3	218	0.11	< 10	< 10	49	< 10	38
467792	236 238	< 1	0.03	22	1010	< 2	< 5	3	125	0.10	< 10	< 10	57	< 10	40
467793	236 238	< 1	0.02	17	890	6	< 5	3	108	0.08	< 10	< 10	65	< 10	32
467794	236 238	< 1	0.05	34	980	< 2	< 5	3	124	0.09	< 10	< 10	54	< 10	40

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B. Coyle



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TECK EXPLORATION LTD.

960 - 175 2ND AVE.
 KAMLOOPS, BC
 V2C 5W1

Project : 1376

Comments: ATTN: F. DALEY

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 Invoice # : I-8931551
 P.O. # :

CERTIFICATE OF ANALYSIS A8931551

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
72601	205	238	55	0.81	< 0.2	10	60	< 0.5	< 2	1.72	< 0.5	5	49	5	1.96	< 10	< 1	0.33	20	0.42	580
72602	205	238	10	1.59	< 0.2	10	20	1.0	< 2	2.26	< 0.5	3	49	1	0.95	< 10	< 1	0.13	10	0.11	150
72603	205	238	< 5	0.76	< 0.2	5	20	< 0.5	< 2	1.11	< 0.5	4	113	2	2.37	< 10	< 1	0.12	20	0.46	430
72604	205	238	< 5	2.40	< 0.2	25	660	< 0.5	< 2	2.79	< 0.5	24	122	28	4.23	20	< 1	0.75	50	2.48	885
72605	205	238	10	1.35	< 0.2	5	40	< 0.5	< 2	1.88	< 0.5	20	57	4	3.13	10	< 1	0.16	20	0.76	360
72606	205	238	< 5	1.60	< 0.2	15	20	< 0.5	< 2	1.97	< 0.5	21	28	2	3.55	10	< 1	0.09	20	1.07	535
72607	205	238	35	1.73	< 0.2	10	20	< 0.5	< 2	2.81	< 0.5	41	54	< 1	3.09	10	< 1	0.06	10	0.93	420
72608	205	238	625	1.26	< 0.2	< 5	50	< 0.5	< 2	3.40	< 0.5	8	53	1	2.48	10	< 1	0.18	< 10	0.89	865
72609	205	238	455	1.11	0.4	5	140	< 0.5	4	2.38	< 0.5	28	73	4	4.74	< 10	< 1	0.64	10	0.73	970
72610	205	238	15	1.34	< 0.2	5	20	< 0.5	2	2.32	< 0.5	15	42	< 1	2.69	10	< 1	0.09	20	0.80	510
72611	205	238	3030	1.13	< 0.2	10	100	< 0.5	2	2.90	0.5	6	63	1	3.08	< 10	< 1	0.50	10	0.56	1195
72612	205	238	< 5	1.29	< 0.2	10	30	< 0.5	< 2	3.27	< 0.5	10	48	< 1	3.28	10	< 1	0.15	10	0.82	865
72613	205	238	90	1.07	< 0.2	< 5	80	< 0.5	2	2.49	< 0.5	7	66	2	3.17	< 10	< 1	0.33	20	0.63	870
72614	205	238	55	1.24	< 0.2	10	80	< 0.5	2	3.11	0.5	7	57	4	3.09	10	< 1	0.32	10	0.77	1045
72615	205	238	1290	1.15	1.4	10	60	< 0.5	4	2.33	1.0	6	73	7	3.28	10	< 1	0.34	20	0.66	1085
72616	205	238	1180	0.83	0.2	10	70	< 0.5	2	1.86	< 0.5	5	116	3	2.44	< 10	< 1	0.40	10	0.36	770
72617	205	238	235	1.87	< 0.2	10	150	< 0.5	2	4.96	< 0.5	9	44	4	3.70	10	< 1	0.94	< 10	0.92	2100
72618	205	238	30	1.19	< 0.2	15	80	< 0.5	8	4.62	< 0.5	15	42	12	4.67	10	< 1	0.50	< 10	0.80	1760
72619	205	238	< 5	1.23	< 0.2	10	60	< 0.5	< 2	2.13	< 0.5	9	38	14	3.18	10	< 1	0.35	20	0.92	890

CERTIFICATION :

B. Cough



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TERRACON EXPLORATION LTD.

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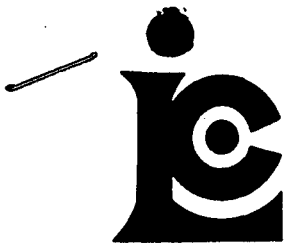
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 Comments: ATTN: F. DALEY

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 Date : 13-DEC-89
 Invoice #: I-8931551
 P.O. # :

CERTIFICATE OF ANALYSIS A8931551

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
72601	205	238	< 1	0.03	2	720	10	< 5	1	92	0.07	< 10	< 10	32	< 10	36
72602	205	238	175	0.03	1	250	8	< 5	< 1	69	0.02	< 10	< 10	19	20	16
72603	205	238	435	0.04	3	620	8	< 5	2	93	0.09	< 10	< 10	57	< 10	50
72604	205	238	5	0.05	75	3260	6	< 5	4	196	0.41	< 10	< 10	97	< 10	100
72605	205	238	1	0.04	5	1030	18	< 5	4	134	0.11	< 10	< 10	71	< 10	42
72606	205	238	8	0.05	10	1270	14	< 5	5	94	0.13	< 10	< 10	87	10	52
72607	205	238	8	0.04	25	1030	6	< 5	4	59	0.08	< 10	< 10	63	< 10	40
72608	205	238	< 1	0.04	4	1100	8	< 5	2	131	0.10	< 10	< 10	42	< 10	44
72609	205	238	4	0.05	5	920	2	< 5	4	139	0.09	< 10	< 10	54	10	58
72610	205	238	< 1	0.05	3	1150	2	< 5	2	144	0.11	< 10	< 10	57	10	48
72611	205	238	< 1	0.02	1	1030	14	< 5	2	113	0.08	< 10	< 10	27	10	46
72612	205	238	< 1	0.04	3	1050	22	< 5	4	189	0.15	< 10	< 10	84	< 10	60
72613	205	238	1	0.03	2	970	6	< 5	3	110	0.09	< 10	< 10	45	< 10	54
72614	205	238	< 1	0.04	2	1050	8	< 5	4	195	0.11	< 10	< 10	52	< 10	80
72615	205	238	12	0.03	3	980	20	< 5	3	119	0.10	< 10	< 10	45	10	96
72616	205	238	41	0.02	5	670	12	< 5	1	98	0.03	< 10	< 10	13	< 10	30
72617	205	238	< 1	0.11	1	1090	10	< 5	4	306	0.08	< 10	< 10	40	20	54
72618	205	238	12	0.06	2	1040	10	< 5	4	237	0.09	< 10	< 10	53	20	56
72619	205	238	1	0.05	2	1180	8	< 5	3	93	0.13	< 10	< 10	78	350	72

CERTIFICATION : B. Coughlin



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE. NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

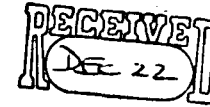
PHONE (604) 984-0221

To: TECK EXPLORATION LTD.

960 - 175 2ND AVE.
KAMLOOPS, BC
V2C 5W1

Project: 1379

Comments: ATTN: G. THOMSON



Page No.: 1-A
Tot. Pages: 1
Date: 18-DEC-89
Invoice #: I-8931752
P.O. #:

CERTIFICATE OF ANALYSIS A8931752

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
HA-1	207 238	0.052	1.49	1.8	20	100	0.5	20	0.65	1.0	21	75	175	3.68	< 10	< 1	0.22	10	1.15	515
HA-2	207 238	0.293	0.40	4.6	40	40	< 0.5	22	0.09	5.0	11	22	28	4.53	< 10	1	0.16	< 10	0.11	440
HA-3	207 238	0.038	0.25	2.0	5	40	< 0.5	6	0.05	4.0	5	29	16	2.34	< 10	< 1	0.10	< 10	0.06	365
HA-4	207 238	0.020	0.87	0.6	15	90	< 0.5	< 2	0.30	6.0	6	15	13	3.16	< 10	< 1	0.38	10	0.32	715

CERTIFICATION :

B. Coughlin



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Page No.: 1-B
Tot. Pages: 1
Date: 18-DEC-89
Invoice #: I-8931752
P.O. #:

CERTIFICATE OF ANALYSIS A8931752

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
HA-1	207	238	5	0.14	61	900	52	< 5	5	57	0.13	< 10	< 10	54	10	106
HA-2	207	238	23	0.04	8	260	30	< 5	1	11	0.01	< 10	< 10	20	20	272
HA-3	207	238	13	0.03	11	170	22	< 5	< 1	5	< 0.01	< 10	< 10	9	< 10	164
HA-4	207	238	11	0.01	5	610	22	< 5	1	16	0.01	< 10	< 10	16	10	186

CERTIFICATION:

B. Coughlin

APPENDIX B

Diamond Drill Logs



TECK EXPLORATIONS LIMITED

HOLE NO. ST 89-01PAGE 1 of 9**DIAMOND DRILL LOG**COMPANY PHIL'S DRILLINGPROJECT 1379PROPERTY SNOW-WATER

NTS _____

CLAIM Snowwater 4ELEVATION 1627.6

GRID COORD. _____

NORTHING 1+50NEASTING 6+00EAZIMUTH 180°DATE: COLLARED Oct. 27/89COMPLETED Nov. 04/89LOGGED Nov 2-7/89LOGGED BY: Tom DelaneyCORE SIZE: NQSTARTING DIP -45°

DEPTH | DIP | AZ.

	45	180

LENGTH: 218.5mDEPTH OF OVB: 2.4mCASING REMAINING: 1.5mWATERLINE LENGTH: 50mPROBLEMS: Drill breakdown (bearing) at 117'

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS					
				ANGLES	VEINS			SAMPLE NO.	FROM m	TO m	LENGTH m	Au ppb					
0 2.4		CASING- OVERBURDEN															
2.4 40.0	✓	ANDESITE ASH TUFF 2.4-17.9 variably altered - weak to moderate - in patches and zones upto 40cm abundant biotite magnetic alteration commonly with foliation healed fractures at	100	50° 60°, 120°		epidote, sericite, bleaching, weak silicification V. weak hematite?		467601	5.00	5.40	.40	< 5					
								7602	7.92	8.32	.40	< 5					
								7603	12.22	13.90	1.68	25					
								7604	15.36	16.83	1.47	< 5					
		17.9-21.0 LAMPROPHYRE massive, speckled with 1mm feldspar phenos. magnetic	100			epidote spots											
		21.0 - variably altered andesite ash tuff-as above	100			weak to moderate silicification in		7605	23.85	25.18	1.33	< 5					
								7606	24.99	25.69	0.80	< 5					



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-01

PAGE 4 of 9

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS						
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au ppb						
		Fine grained, dark grey/black matrix with abundant biotite. Healed fractures at 71.9 20cm andesite dike. Fine grained. Grey/green. Angite phenos.			45°, 120°	72.2-73.8 moderate bleaching and fine grained epidote.												
75.4 82.8	✓	LAMPROPHYRE massive, homogeneous. Grain size 2mm. Large biotite crystals. Sharp upper and lower contacts at 50° and 60° Magnetic.	100			Scattered py 1% silica filled voids upto 10mm with weak epidote tourmaline with silica 79.8	46	7623	79.4	80.9	1.5	< 5						
82.8 83.4	✓	DIORITE DIKE Grain size 2mm. weakly foliated at	100		60°	Chlorite, weak epidote, patchy silicification	1% dissem. py	7624	82.8	83.5	0.7	< 5						
83.4 118.8	✓	ANDESITE ASH TUFF As above. Variably altered. Upper contact at 60° is bleached, epidotized and silicified for 10cm. Mafic/felsic banding with foliation at 60° for 50cm 83.7. After 84.2 andesites are foliated at Locally feldspar porphyritic. Colour is dark grey to green/black Fine grained. Micaceous. Chloritic.	100		50°	epidote/silica patches and seams often with foliation. Occasional bleaching. 96.4-98.3 intermit moderate hematization with stronger epidote and silica	1-2% diss py for 10cm at upper contact epidote spots and seams. Rare py											
		95.1 massive diorite dike for 45cm with weak to moderate epidote. Contacts at 80°						7625	96.1	97.3	1.2	< 5						
								7626	97.3	98.3	1.0	< 5						



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-01

PAGE 5 of 9

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS				
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au ppb				
		103.3-103.7 diorite dikeing with minor angular andesite tuff clasts. Sharp contacts at 70°				Weak epidote, silic., bleaching.	46	7627	100.9	101.5	0.6	< 5				
								7628	103.2	105.8	0.6	< 5				
		104.4-105.8 feldspar porphyry with 40% euhedral phenocrysts, $\phi = 3$ mm. Black fine grained ground mass with abundant biotite.	100		1cm qtz. 35° at 105.8	Weak epidote										
		106.5-108.5 feldspar porphyry with 10% subrounded phenocrysts $\phi = 3-5$ mm. Intermediate, fine grained, grey ground mass. Moderate foliation at	100			Very weak epidote	trace py on fractures									
				45%												
		113.4-114.8 diorite				Weak epidote										
		116.8 20cm breccia zone - andesite fragments in diorite.				118.0 30cm moder. to strong epidote, bleaching - weak silicific., hematization		7629	116.8	117.3	0.5	< 5				
								7630	118.0	118.8	0.8	< 5				
118.8		DIORITE	100													
125.1		Massive. 40% mafics, 60% feldspar.			5-10cm qtz 119.1, 119.5, 120.5 at 90°	Weak epidote, Weak kaolin	Trace py 1% magnetite	7631	118.8	119.6	0.8	< 5				
125.1		ANDESITE TUFF	100			bleached edges on clasts.	1-2% Pt, Pa in dissam. and fine grain clusters to 129.8.	7632	125.1	126.0	0.9	< 5				
133.2		Coarse pyroclastics with ash tuff matrix. 60% angular to rounded clasts. Patchy epidote, hematite in matrix. Matrix is grey to green with feldspar phenos $\phi = 1-3$ mm in fine grained ground mass.				bleaching of clasts and matrix increases from 132.0 to lower contact	2-5% Pt, Pa 126.0-126.8	7633	126.0	126.8	0.8	< 5				
								7634	128.2	129.5	1-3	< 5				



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-01

PAGE 6 of 9

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS				
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au µg/g				
		Clasts are fine grained, black and waxy feldspar porphyritic. Size is 5-10 cm to 130m then 2-5cm					128.2 4cm semi massive magnetite	7635	132.0	132.7	0.7	< 5				
		Lower contact is highly deformed for 20cm				Silicification begins 132.7 increasing in strength to 133.2. Hematization 133.1.	1-2% py, po 132.0-133.2	7636	132.7	133.4	0.7	< 5				
133.2 141.8	✓	HORNFEISED VOLCANIC As above. Gray/light green colour. Intermittent banding at 60°. Upper contact is highly deformed with contorted banding for 20cm.	100			bleaching, locally intense. intermittent silica patches.	2-5% py, po in fine dissem. and seams. trace cpq 133.4 po clusters with silica 137.2-138.8	7637	137.1	138.9	1.8	< 5				
141.8 142.2	✓	DIORITE Massive. Sharp upper contact 65°	100													
142.2 150.7	✓	LAMPROPHIRE (LITHOMELAN-D. 94456) 43 134.6-144.6 massive diorite	100													
150.7 159.7	✓	HORNFEISED VOLCANIC As above. Gray to green in colour. Banding at 70°.	100			2cm q.v. intermittent 154.7 to 60° epidote bands upto 2cm q.v. 10cm. Intermittent 155.5 at 70° weak silicification	1-2% fine disseminated sulfides. 5-10% po with q.v.s	7638	154.6	155.9	1.3	< 5				
159.7 165.8	✓	DIORITE Sharp upper contact at 85°. Massive. Grain size is 3-5mm	100			Very weak epidote										
		163.8-164.6 hornfelsed volcanic with 1-2% py in fractures.				Weak silicification, epidotization, bleaching		7639	163.9	164.6	0.7	< 5				



DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS			
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	1st Pct.			
180.8 185.5	✓	FELDSPAR PORPHYRY 20-30% vague phenocrysts $\phi=2\text{mm}$. Gray, fine grained ground mass. Generally as above. Weak foliation	100			hematized stringers 182.5 V. weak epidote.	Scattered, fine py. <1% py seams 184.8								
		15 cm q.v. 185.5			q.v. 50°										
185.5 191.9	✓	DIORITE Massive. As above. Quartz vein 186.8	100		10cm 25°	Weak to moderate epidotization weak K-spar for 20 cm 185.7 weakly kaolinized.									
191.9 199.6	✓	ANDESITE ASH TUFF Fine grained, black. Intermittent diorite diking in 1cm fractures	100			chloritic, epidote stringers, local bleaching	trace py								
		193.2 40cm breccia zone with 5cm bleached, angular andesite clasts cemented with silica				epidote garnet, bleaching for 20cm 196.5	trace py in breccia zone.	7646	192.8	193.4	0.6	< 5			
		196.2-196.1 diorite					scattered magnetite	7647	196.0	197.2	1.2	< 5			
		197.0-198.1 mixed diorite / andesite				bleaching, epidotization		7648	197.2	197.7	0.5	< 5			
		197.3 13cm quartz vein. Extremely raggy for 10cm at contact with andesite			25°	chloritized in vuggy area	10% py in fine grained clusters and massive cubes.	7649	197.7	198.7	1.0	< 5			
		198.7-199.4 breccia zone. Bleached angular volcanic fragments (5cm) cemented by silica flooding - several galena blocks					pyritized vugs. 198.2 5% coarse and fine py in breccia zone.	7650	198.7	199.4	0.7	190			



TECK EXPLORATIONS LIMITED

HOLE No. ST89-03PAGE 6 of 9

DEPTH (metres) FROM	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS						
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au ppb.						
7935		IRREGULAR LOWER CONTACT WITH FELSPAR PORPHYRY																
7935 80.35		FELSPAR PORPHYRY - MED GRAY, W. ~ 60% ANHEDRAL TO SUBHEDRAL PLAG PHENOS. Ø = 1-3 mm LOWER CONTACT IRREGULAR - SHARP	100				TRC. PY.											
80.35 95.72		ANDESITE TUFF - DARK GREENISH GRAY - WK QUARTZ + CHLORITE VEINLETS AND PAGES - WKLY PORPHYRY (PLAG/PY FRAGS). 1-2 mm - DIFFUSE GRANODIORITE PATCH 10cm @ 91.62m W. 1-2% PY. LIGHT GREEN COARSE PLAG. PORPHYRITIC TEXTURE @ 94.1 - 94.43. - ANDRITIC GRAY ASH TUFF WITH MOD. SILICIFICATION	100			CHLOR - M.D.	TRC. PY.											
		DIFFUSE LOWER CONTACT @ 95.72m. W. EPIDOTIC RIM AND 2X3cm MALACITE BLEN.				SILICIFIED, W. K. EPIDOTIC	~ 1% ASS. PY.	467 658 467 659	93.8 94.6	94.6 95.75	0.8 1.15	15 5						



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-03

PAGE 9 of 9

DEPTH (metres) FROM	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS						
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au	Mo					
111.9 119.26	✓	GRANODIORITE - FRESH, MED GRAIN - WEAK STRUCCIC CHLOR-EPIDOTE ALIGNED MAINLY ALONG HAILING FRATURES; PEGMATITE QZ & K-SPAR VEINING AT 112.46 - 1 cm 115.9 - 2.5 cm 117.86 4 cm 118.16 5 cm - Mo blubs at 118.1, 118.16 118.36 - 118.75 - Coarse GRAIN PEGMATITE (QZ & K-SPAR) IN TRC PYRITE AND 3 BLESS OF Mo 2-9 mm (ECONOMITE) AT 118.52 m - UGHYCALITE VENEETS @ 114.25 - 114.45	100				Py-TRC.											
119.26 121.1	✓	ANDESITE TUFF - HIGHLY ALTERED, MOTTLED QUARTZ FLOODED (PEGMATITE) 119.46 - 119.92, STRONGLY MAGNETIC IN AREAS OF ENTIRE ALTERATION; UGHY MAGNETIC AT UPPER CONTACT, 2 CM EPIDOTE GARNET PATCH AT UPPER CONTACT ALSO AT 120.6 - 120.8 m.	100			STRONG CHLOR- EPIDOTE	Py-TRC. MOLYBDENUM BLESS.	467 662 467 663	119.26 1200	1200 121.1	0.74 1.10	<5 <5						
121.1 136.24		GRANODIORITE - MED GRAIN MAINLY FRESH, UNALTERED. - PEGMATITE VEINING @ 121.5 - 121.95 122.35 - 122.67 128.7 - 129.13 MINOR HEMATITE ALONG VEIN - INTRUSIVE CONTACTS.	100			(CHLOR - WR EPID.	Py-TRC.											

136.24

END OF HOLE



DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS						
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au	Ppb					
50.77 53.15		GRANODIORITE - waxy mottled - moderately fractured - med. graded, med. fractured ~50° - wk chloritic alteration of subtotal pyroxene phenos. - slightly magnetic - 3 tuffaceous inclusion bands @ 51.2 m - 7cm 51.45 m 7cm 51.8 4cm - stronger fracturing @ 50.77- 51.9 w. quartz-carb veinlets (fracture fillings) - upper contact @ 60°	100			chlorite - wk												
53.15 57.5		ANDESITE TUFF - green, moderate - strongly fractured - increased quartz-carb. veinlets + gash fillings - upper contact @ 25° Lower contact @ 40°	100			CHLORITE - MOD - STRONG EPIDOTE - WK.	py - ~1%											
57.5 61.1		GRANODIORITE - fairly fresh, slightly mottled - waxy chloritized mafics - moderately fractured - wk quartz-carb fract. fills.	100			CHLOR - WK QTZ-CARB-WK												

664 570 57.5 0.5 25



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-04

PAGE 3 of 4

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS				
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	AN Ppb.				
61.1 69.09		GRANODIORITE - FRESH TO MOD ALTERED & METALLOID - STRONG QUARTZ - MUSCOVITE ALT. ZONE @ 61.1 - 61.4 62.09 - 64.09 67.9 - 68.3 1-2 cm quartz vein w. massive pyrite @ 62.0m.	100			SILICA - CARB. (MOD - STRONG) CLAY - MOD. CHLOR. WK - MOD.	PY - TRC.	467 665 667 666 667 667 667 668	61.1 61.84 63.1 64.1 64.1	61.84 63.1 64.1 64.84	0.74 1.26 1.0 0.74	35 15 25 5				
69.09 69.69		DIORITE - QUARTZ - K-SPAR VEIN - fine grain - fine disse. Molybdenum - weak chloritized fractures - upper contact ~ 40° - lower contact ~ 65°	100				MO - 0.5%									
69.69 73.0		GRANODIORITE - MODERATE - STRONG ALTERED - GENERALLY FRACTURED & BROKEN - MINOR QZ & SPORADIC - Feldspars variably clay altered - occasional vuggy - QZ VEIN BARRIA @ 72.7 - 72.85	100			QZ - CARB, CLAY CHLOR. MOD - STRONG	PY - 1-2%	467 671 672 673 674	69.7 70.6 71.64 72.34 72.34	70.6 71.64 72.34 73.0	0.9 1.04 0.7 0.66	20 15 360 55				



DEPTH (metres) FROM	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS							
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au oz/t							
79.6		ANDESITE TUFF	100																
89.3		- FINE GRAIN, DARK GREEN - CONSPICUOUS SILICA - EPIDOTE HEALED HAIRLINE FRACTURES		60°	FRAS.	CLOR - MOD. EPID - WIC - MOD.	PY - TRC												
89.5		AS ABOVE WITH INCREASED	100			CLOR - MOD - STRONG													
93.0		CHLORITE ALT. INCREASED FRACTURING & FRACTURE HEALING																	
		5cm porphyritic - ALTERED TUFF @ 90.2 m. - GRAINE CORE OVER LAST 20-30 cm of THIS SECTION.																	
93.0		PORPHYRITIC, ALTERED ANDESITE	100			CHLORITE - V. STRONG	PY + C.	707	94	95	1.0	.002							
95.0		20% euhedral - anhedral plag. porphy (1-2 mm) set in dark green chloritic groundmass, spongy pyroxene porphy 2-4 mm. - fractured pink permatite dyke @ 93.35-93.55																	
95.0		ANDESITE / ANDESITE TUFF	100			CHLORITE - STRONG	PY 2-5%												
96.0		- strongly fractured, chloritized silicified; marked pyrite inclusions (dissim & fracture fills)				SILIC - MOD		708	95	96	1.0	.004							



TECK EXPLORATIONS LIMITED

HOLE No. ST-89-06

PAGE 4 of 6

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS				
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	A ₂ %T				
96.0 97.0		ALTERATION - FRACTURE ZONE - HEAVILY FRACTURED, CLAY ALTERED ANDRESITES; VERY STRONG LIMONITE THROUGHOUT SECTION; LOCALIZED SILICIFICATION & PYRITE IN LESS CLAY ALTERED ROCK 96.0-96.3 - PINK PEGMATITE VEIN - CONTAINS SEVERAL NARROW VAGUE QUARTZ VEGETABLES AND ONE INTENSION OF SILICIFIED PYRITIC VOLCANICS (Q ₂ = 30.9 cm) 97.8 - 15 cm QUARTZ - AMYGDALITE VAGUE BRECCIA; MOTTLED ALTERED SURROUNDING FRAGS 0.5-2.0 cm 50% vol; weak limonite stain.	70			CLAY - EXTENSIVE } LIMONITE - INTENSE } SILIC. - LOCALIZED	PY 05-10%	709	96	97	1.0	0.09				
								710	97	98	1.0	0.020				
								711	98	99	1.0	0.045				
99.0 111.9		ALTERATION - FRACTURE ZONE - STRONG CHLORITE - CARBONATE ALTERED ZONE, VARIABLY FRACTURED - LOCALIZED SILICIFICATION AND VEIN BRECCIATION - LOCALIZED DIS. PYRITE RELATED TO SILICIFICATION	100			CHLORITE - CARBONATE (MOD - V. STRONG) SILICIFICATION (GENERALIZED)	PY - SPORADIC (UP TO ~ 2%)	712	99	99.9	0.9	<.002				
								713	99.9	100.9	1.0	<.002				
								467	714	100.9	102	1.1	<.002			
								467	715	102	103	1.0	<.002			
								467	716	103	104	1.0	<.002			
								467	717	104	105	1.0	<.002			
								"	718	105	106	1.0	<.002			
								"	719	106	107	1.0	<.002			
111.9 110.4 118.4		ANDRESITE TUFF - weak to moderate chlorite - carbonate alteration weak to moderately fractured @ 50-60°	100			CHLORITE - CARBONATE (MARGARITE)	PY - TRC 1-2% PYRITE on fractures @ 115-116.4	720	107	108	1.0	<.002				
								721	108	109	1.0	<.002				
								722	109	110	1.0	<.002				
								723	110	111	1.0	<.002				
								724	111	111.9	0.9	<.002				
								467	725	115	116.4	1.4	<.002			



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-08

PAGE 1 of 3

DIAMOND DRILL LOGCOMPANY SNOW-WATER RESOURCESPROJECT 1379PROPERTY WHITEWATER
 NTS _____
 CLAIM SNOWWATER 4
 ELEVATION 1650
 GRID COORD. _____
 NORTHING 0476
 EASTING 5406E

 DATE: COLLARED Nov. 23/89
 : COMPLETED Nov. 25/89
 : LOGGED Nov. 25/89
 LOGGED BY: Tom Delaney
 CORE SIZE: NQ

DEPTH	DIP	AZ.
collar	-45	045°

 LENGTH: 86.0m
 DEPTH OF OVB: 3.0m
 CASING REMAINING: _____
 WATERLINE LENGTH: _____
 PROBLEMS: _____

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA					RESULTS						
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au	ppb						
0 3.0		CASING - OVERBURDEN																	
3.0 55.4		ANDESITE ASH TUFF Variably altered. Fine grained, dark green to black. Local hornblende phenos $\phi=2\text{mm}$ Fault ganging 6.5-10.0 Recovery generally 90-100% 9.2-10.3 40				Weak to moderate epidote in patches and stringers. local garnet with silica. Weak bleaching Weak hematization at 14.6	none	46	7731	8.2	9.2	1.0	10						
		10.0-14.5 Pegmatite Dike. Massive, fractured, vuggy. Locally oxidized. Ground core 11.7-14.5. 11.3-14.3 25						7732	10.3	11.7	1.4	< 5							
		Foliation 10cm fault zone 31.8			50°														
		Weak brecciation for 10cm 33.0				oxidized													
		Minor fault gauge 33.0-34.5 30.2-43.3 100						7733	33.0	34.5	1.5	< 5							



DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS							
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au ppb							
		40cm Pegmatite dike 37.4 Contacts at		40°															
		43.5-55.4 Breccia zone. Anhydrite stockwork fracture filling. Generally weak to moderately strong brecciation. Local fault ganging. Strong brecciation 44.3 for 20cm.				bleaching local kaolinization.	39.5 2-5% coarse py 90cm	7734	39.5	39.8	0.3	15							
		Intermittent brecciation 45.9-55.4 including 47.0-47.9 50.3-50.6 50.9-55.4 weak				anhydrite fracture filling. weak bleaching. local silicification epidote 54.8-55.4	malachite with fault gouge 48.3	7735 7736 7742 7743	43.5 44.8 45.9 46.9	44.8 45.9 46.9 47.9	1.3 1.1 1.0 1.0	65 10 < 5 < 5							
		30cm Pegmatite dike 53.6					50.3-50.6 1-2% py 50.9-51.2 5% py trace coarse py 54.6-55.4	7737 7744 7745 7746	50.9 51.7 52.7 53.4	51.7 52.7 53.4 54.2	0.8 1.0 0.7 0.8	20 < 5 < 5 < 5							
55.4		FELDSPAR PORPHYRY						7738 7739	54.2 55.4	55.4 56.7	1.2 1.3	20 35							
57.9		Silicified and bleached 55.4-57.9. Gradual increase in intensity from contact to 56.4 56.4-57.9 strongly bleached, moderate silicification. Vuggy with local quartz void filling. Weak brecciation is masked by alteration Obscured upper contact. Fault at lower contact.				bleaching. weak silicification	none	7740	56.7	57.9	1.2	15							



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-09

PAGE 1 of 5

DIAMOND DRILL LOGCOMPANY SNOW-WATER RESOURCESPROJECT 1379PROPERTY WHITEWATER

NTS _____

CLAIM WHITEWATERELEVATION 1536

GRID COORD. _____

NORTHING 24924EASTING 1548WDATE: COLLARED Nov. 27/89COMPLETED Nov. 30/89LOGGED Dec. 1/89LOGGED BY: Tom DelaneyCORE SIZE: NO

DEPTH	DIP	AZ.
Collar	-45	320°

LENGTH: 203.3 m
 DEPTH OF OVB: 4.2 m
 CASING REMAINING: _____
 WATERLINE LENGTH: 350 m
 PROBLEMS: _____

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS						
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au ppb	Mo ppm					
0 4.2		CASING - OVERBURDEN																
4.2 17.9		GRANODIORITE Nelson Intrusive. Massive, fractured, visibly altered. Fracturing intermittent 1-2cm quartz veins including 6.2, 11.7, 13.2, 13.5, 14.8m	100	25°/85° 85°		fine epidote around mafic. Patchy epidote along fractures. Weak, spotty kaolin. Weak chlorite.	py 10% in g.v. 11.3m 10% py, 2% Mo in g.v.'s 13.2, 14.8m	7751 7752 7753	6.5 11.0 12.2	6.8 11.3 13.3	0.3 0.3 1.1	< 5 < < 5						
		Pegmatite dike, 10cm at 11.3m contacts		75°				46 7754	14.4	14.8	0.4	20						
17.9 25.4		ALTERATION ZONE Altered granodiorite. Fracturing More frequent quartz veining .5-2.0cm Anhydrite filled fracture seams.	100	35°/75° 85°		weak to moderate bleaching. More intense along fractures chlorite.	local py upto 5% disseminations and seams with Mo clusters in silica.	7755 7756 7757	18.4 21.7 23.7	19.2 22.0 24.5	0.8 0.3 0.8	420 < 5 < 5						
25.4 136.5		GRANODIORITE As above. 5cm quartz veins 28.5, 29.2, 31.1 with Mo. Mafic dikes 30cm 26.9, 29.3-30.4 contacts Fine grained, dark green/black	100	40°/20°		Weak epidote spots. locally stronger in patches and seams. local weak bleaching.	2-5% dissem. Mo 40cm 23.9 local clusters fine py, Mo in fractures and with quartz veins	7758 7759	26.1 28.5	26.5 29.3	0.4 0.8	< 5 < 5						



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-09

PAGE 2 of 5

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS					
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au ppb	Mo ppm				
		23.6-50.6 weakly altered granodiorite with intermittent 1-5cm quartz veins at	100	60°		chloritic seams weak epidote spots and streaks.	Mo in 7cm q.v. local py seams in fractures.	7760	33.0	33.7	0.7	<5					
		50.6-60.1 granodiorite as above with infrequent quartz veins.	100			weak epidote											
		53.1-53.7 mafic dike. Contacts	100	20°													
		60.1-63.4 Zone of weak to moderate potassic alteration.	100			K-spar. strong bleaching for 15cm at 60.4 bounded by .5cm q.v.											
		63.4-64.1 Mafic dike. As above.	100														
		66.3-67.4 Alteration zone. Strong bleaching. Apparent reduction in mafic content.	100			strong bleaching.											
		67.4-105.0 granodiorite. Very weak alteration. Infrequent weak quartz veining. Anhydrite fracture filling. 60cm mafic dike 75.1 Potassic alteration - patchy and weak 86.7-92.6.	100			epidote. K-spar. weak K-spar along fracture 73.3 Chloritic fractures.	local 5-10% py. and Mo on fracture planes										
		Increase in frequency of quartz veining 91.7-96.6 veining at Quartz veins locally waggly. Veins are 5-10cm separated by 0.5-1.0m		70°			2-5% py + Mo in quartz.	7761	95.3	96.2	0.9	<5					
		105.0-107.3 patchy weak potassic alteration with weak bleaching.				chloritic fracture surfaces.	2-5% py in seams and dissemin 105.5	7762	105.3	105.7	0.4	<5					



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-09

PAGE 3 of 5

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS				
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH	Au ppb	Mo ppm			
		5cm q.v. 108.8			70°		1-2% scattered Mo, Py	7763	108.8	109.9	1.1	< 5				
		110.2 - 113.5 more consistent, weak to moderate potassic alteration.				increase in anhydrite filled fractures. weak to moderate epidote.	1cm q.v. 5-10% Py, Mo 113.6 2cm q.v. 5% Py 114.1	7764	111.1	111.5	0.4	< 5				
		118.6 50cm moderate potassic alteration with anhydrite fracture filling.														
		123.1 - 124.1 patchy potassic alteration.														
		125.9 - 128.0 moderate, consistent potassic alteration. 4cm q.v. 126.0			65°	epidote streaks	2% scattered Mo in q.v.									
		128.0 - 136.5 granodiorite with frequent 1-5cm quartz veins.	100		65/80°	patchy weak to moderate K-spar. patchy weak epidote.	local 1-2% diss. Py in fractures. scattered Py with quartz.	7765	133.6	134.9	0.8	< 5				
136.5		LAMPROPHYRE	100													
142.4		Massive to weakly sheared. Quartz eye void filling. Circular $\phi = 2\text{mm}$. Grey/green fine grained andesite dikes for last 60cm.				Chloritic.										
42.4		ALTERATION ZONE	100													
170.4		Altered granodiorite. Moderate to strong potassic alteration. Moderate to high density fracture network. Weathered appearance. Pink quartz breccia 10 cm at 143.0. Fault gouge 20cm 143.4, 10cm 147.6 Anhydrite fracture filling				Moderate epidote in spots and fracture seams. Weak to moderate clay alteration. Weakly oxidized. Chloritic fractures moderate bleaching	local Py seams	46	7766	142.5	144.0	1.5	< 5			
								7767	144.0	145.4	1.4	5				
								7768	145.4	146.9	1.5	5				
								7769	144.9	148.4	1.5	< 5				
								7770	148.4	150.0	1.6	< 5				



TECK EXPLORATIONS LIMITED

HOLE No. ST89-10

PAGE 1 of 6

DIAMOND DRILL LOGCOMPANY SNOW-WATER RESOURCESPROJECT 1379PROPERTY WHITEWATER
 NTS _____
 CLAIM WHITEWATER
 ELEVATION 1536
 GRID COORD. _____
 NORTHING 2+92N
 EASTING 15+48W

 DATE: COLLARED Dec 1/89
 COMPLETED _____
 LOGGED Dec 3, 4/89
 LOGGED BY: Tom Delaney
 CORE SIZE: NQ

DEPTH	DIP	AZ.
collar	-45	290°

 LENGTH: 285.6 m
 DEPTH OF OVB: 3.5 m
 CASING REMAINING: 3.5 m
 WATERLINE LENGTH: 350 m
 PROBLEMS: Drill shock not secured - hole wandering.

DEPTH (metres) FROM TO	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS							
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH m	Au ppb	Mo ppm						
0 3.5		CASING - OVERBURDEN																	
3.5 47.0		GRANODIORITE Nelson Intrusive. Massive. Generally weakly altered. 10cm q.v. 5.0 Magnetic. 13cm q.v. 19.1 numerous other q.v.'s - narrower	100			Weak epidote spots and streaks on fractures. 65° 75° 75° patchy bleaching. chloritic fractures	1% dissemin py with bleach. 10.3 1-2% py in q.v. 19.1 other q.v.'s 1% scattered py.												
		10.3 strong bleaching over 14cm 19.9-29.6 strong bleaching bordered by 6cm quartz vein. intermittent 5-10cm quartz veins				Weak K-spar over 70cm 7.0 Patchy K-spar begins with bleaching 19.9 K-spar intensity increases Mo plates in 5cm	scattered Mo in q.v.s. 1% py with bleach 19.9-20.5 Mo clustars 23.5 Mo plates in 5cm												
		20cm q.v. 34.0 More weakly altered granodiorite after 34.2 with intermittent 1-5cm q.v.s often with scattered molybdenum.				65° 65° 60° 26.2-29.6 minor chlorite in q.v.s muscovite in q.v. 29.5 strong K-spar, epidote seams 33.1-34.1 q.v. 36.2 scattered Mo, dissemin py in q.v.s 38.7, 39.4	q.v. 26.6 2% py, scattered Mo 26.6-28.8 with silica flooding. 2% Mo in 5cm	72601 72602 72603	19.2 26.6 38.5	20.5 28.8 39.6	1.3 1.2 1.1	55 10 <5	<1 175 435						



TECK EXPLORATIONS LIMITED

HOLE No. ST 89-10

PAGE 2 of 6

DEPTH (metres) FROM	GRAPHIC	DESCRIPTION	RECOVERY	STRUCTURE		ALTERATION	METALLIC MINERALS (%)	SAMPLE DATA				RESULTS				
				ANGLES	VEINS			SAMPLE NO.	FROM	TO	LENGTH m	Au ppb				
47.0 50.0		MAFIC DIKE Dark green. Fine grained. Aesitic composition. Fractured contacts	100	45° 20°		Chloritic fracture surfaces. Weak bleaching along fractures.	1% dissam. py	72604	47.7	48.7	1.0	< 5				
50.0 68.9		GRANODIORITE Nelson Intrusive as above. Weakly altered. Local anhydrite fracture filling. Rare quartz veining. Magnetic.	100			Weak K-spar, epidote, bleaching. Chloritized mafic minerals. Weak oxidation 63.1 for 30cm and 65.1 for 10cm.	local dissem. py in fractures. Scattered coarse py in gv for 5cm 63.1									
68.9 73.4		MAFIC DIKE Fine grained. Dark green. Local calcified amygdules. Breccia zone with quartz/anhydrite matrix barely visible due to lost core 72.2. Fault gouge throughout. Ground core 72.8-73.0				Weak to moderate chlorite.										
		70.8-73.0 lower contact	50	30°												
73.4		GRANODIORITE As above. Generally weak, patchy alteration. Rare quartz veining. Stronger, more consistent alteration 81.0-81.2 Mafic dike for 30cm 78.3 Bleaching of granodiorite for 10cm at lower contact of dike	100			Weak epidote, bleaching E-spar. 81.0-81.2 moderate epidote, K-spar. Alter. zone still magnetic Strong bleaching, anhydrite, chlorite for 10cm 81.1	5% diss. py 78.6 5% py in silicif. fractures 84.5, 85.1, 86.8 otherwise, trace dissem. py.	72605	78.6	79.1	0.5	10				
								72606	85.1	86.7	1.6	< 5				
								72607	86.7	87.2	0.5	35				

APPENDIX C

Drill Hole Sampling Summaries

Drill Hole Sampling Summary

Hole No.- ST 89 - 01

Length; 218.5 m.
Azimuth: 180 °
Dip: -45 °

Grid Coordinates; 1+50 N, 6+00 E
Elevation: 1628 m.

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(ppm)	
467601	5.0-5.4	0.4 m	< 5			Andesite Tuff
02	7.9-8.3	0.4	< 5			"
03	12.2-13.9	1.7	25			"
04	15.4-16.8	1.5	< 5			
05	23.85-25.2	1.35	< 5			
06	24.9-25.7	0.8	< 5			
07	33.75-34.5	0.75				
08	37.1-38.5	1.4				
09	38.5-40.0	1.5				
10	40.0-41.4	1.4				
11	41.4-42.8	1.4				
12	42.8-43.3	0.5				
13	47.4-48.7	1.3				
14	55.5-56.5	1.0				
15	57.3-58.7	1.4				
16	60.0-61.4	1.4				
17	63.1-64.2	1.1				
18	65.1-66.5	1.4				
19	66.5-67.9	1.4				
20	67.9-69.2	1.3				
21	70.9-72.3	1.4				Feldspar Porph
22	72.3-73.8	1.5				"
23	79.4-80.9	1.5				Lamprophyre
24	82.8-83.5	0.7				Diorite
25	96.1-97.3	1.2				Andesite Tuff
26	97.3-98.3	1.0				"
27	100.9-101.5	0.6				
28	103.2-103.8	0.6				
29	116.8-117.3	0.5				
30	118.0-118.8	0.8				
31	118.8-119.6	0.8				Diorite
32	125.1-126.0	0.9				Andesite Tuff
33	126.0-126.8	0.8				
34	128.2-129.5	1.3				
35	132.0-132.7	0.7				

Drill Hole Sampling Summary

Hole No.- ST 89 - 01 (cont)

Length;
Azimuth:
Dip:

Grid Coordinates;
Elevation:

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(PPm)	
467636	132.7-133.4	0.7	< 5			Andesite Tuff
637	137.1-138.9	1.8				Hornfelsed vol
638	154.6-155.9	1.3				"
639	163.9-164.6	0.7				"
640	165.8-166.3	0.5				"
641	168.8-170.4	1.6				"
642	172.8-173.9	1.1				Andesite Tuff
643	173.9-174.7	0.9				
644	174.7-176.5	1.8				
645	176.5-177.6	1.1				Quartz vein
646	192.8-193.4	0.6				Andesite Tuff
647	196.0-197.2	1.2				Diorite+Tuff
648	197.2-197.7	0.5				"
649	197.7-198.7	1.0	< 5			Andesite Tuff
650	198.7-199.4	0.7	190			Sil. Breccia
651	204.8-206.2	1.4	< 5			Diorite
652	214.5-215.8	1.3	< 5			"

Drill Hole Sampling Summary

Hole No.- ST 89 - 03

Length; 136.24 m.
Azimuth: 180
Dip: -45

Grid Coordinates; 0+65 N, 6+48 E
Elevation: 1615 m.

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(PPM)	
467654	11.97-13.1	1.13	20			Andesite Tuff
655	13.7-14.6	0.9	10			Diorite
656	19.8-20.25	0.45	10			Pegm. vein
657	57.55-58.05	0.5	5			And. Tuff
658	93.8-94.6	0.8	15			"
659	94.6-95.75	1.15	5			"
660	98.0-99.5	1.5	< 5			Granodiorite
661	118.0-118.9	0.9	< 5			"
662	119.3-120.0	0.7	< 5			And. Tuff
663	120.0-121.1	1.1	< 5			"

Drill Hole Sampling Summary

Hole No.- ST 89 - 04

Length; 120.4 m.

Azimuth:

Dip: -90

Grid Coordinates; 0+00 N, 5+00 E

Elevation: 1643 m.

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(ppm)	
467664	57.0-57.5	0.5	25			Andesite Tuff
665	61.1-61.84	0.74	35			Granodiorite
666	61.84-63.1	1.26	15			"
667	63.1-64.1	1.0	25			"
668	64.1-64.84	0.74	5			"
669	67.2-67.9	0.7	15			"
670	67.9- 69.0	1.1	5			"
671	69.7-70.6	0.9	20			Granodiorite
672	70.6-71.64	1.04	15			-altered
673	71.6-72.3	0.7	360			- fractured
674	72.3-73.0	0.7	55			- minor quartz
675	73.0-74.0	1.0	30			stockworks
676	74.0-75.0	1.0	5			
467677	75.0-76.0	1.0	5			"

Drill Hole Sampling Summary

Hole No.- ST 89 - 05

Length; 121.0 m.
Azimuth: 030
Dip: -45

Grid Coordinates; 0+00, 5+00 E
Elevation: 1643 m.

Sample No.	Interval	Length	Gold		Silver	Rock Type	
			(ppb)	(oz/T)	(ppm)		
467706	37.3-37.7	0.4		.002		And. Tuff	
467678	60.0-60.6	0.6		.006		Breccia	
679	61.7-63.0	1.3		<.002		Breccia Zone	
680	63.0-64.0	1.0		<.002		-mixed volcs. with sporadic anhydrite matrix breccia -locally sil. - 1-3 % pyrite - fractured	
681	64.0-65.0	1.0		.002			
682	65.0-66.0	1.0		.012			
683	66.0-67.0	1.0		.007			
684	67.0-68.0	1.0		.004			
685	68.0-69.05	1.05		<.002			
686	69.05-69.8	0.75		<.002			
687	69.8-71.0	1.2		<.002			
688	71.0-72.0	1.0		<.002			
689	72.0-72.5	0.5		.004			
690	72.5-73.23	0.73		.017	0.4		strong limonite
691	73.23-74.6	1.37		.014	< 0.2		"
692	74.6-75.6	1.0		.033	0.4		Silic. matrix breccia
693	75.6-76.6	1.0		.039	0.4		
694	76.6-77.6	1.0		.025	0.6		
695	77.6-78.6	1.0		<.002		Silic-carb alt Volcanics	
696	78.6-79.6	1.0					
697	79.6-80.6	1.0				Pyroxene (and. porphyry	
698	80.6-81.6	1.0					
699	81.6-82.6	1.0					
700	82.6-83.7	1.1				Andesite	
701	84.4-85.4	1.0					
702	85.4-86.4	1.0					
703	88.5-89.0	0.5					
704	96.0-97.1	1.1					
705	97.1-97.8	0.7					



Drill Hole Sampling Summary

Hole No.- ST 89 - 06

Length; 196.6 m.
Azimuth: 030
Dip: -60

Grid Coordinates; 0+65 N, 4+55 E
Elevation: 1634 m.

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(pp _m)	
467707	94.0-95.0	1.0			0.2	Andesite
708	95.0-96.0	1.0			0.2	"
709	96.0-97.0	1.0			0.4	Limonic
710	97.0-98.0	1.0			1.6	alt., fract.
711	98.0-99.0	1.0			1.0	Andesite
712	99.0-99.9	0.9			0.4	And/And. Tuff
713	99.9-100.9	1.0			0.2	
714	100.9-102.0	1.1				Alterat/Fract.
715	102.0-103.0	1.0				Zone
716	103.0-104.0	1.0				-chlor, carb
717	104.0-105.0	1.0				local. silicif.
718	105.0-106.0	1.0				-sporadic pyr.
719	106.0-107.0	1.0				to 2%
720	107.0-108.0	1.0				
721	108.0-109.0	1.0				
722	109.0-110.0	1.0				
723	110.0-111.0	1.0				
724	111.0-111.9	0.9				
467725	115.0-116.4	1.4				Andesite Tuff

Drill Hole Sampling Summary

Hole No.- ST 89 - 07

Length; 130.15

Azimuth: 030

Dip: -45

Grid Coordinates; 0+75 S, 6+50 E

Elevation: 1628

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(PPm)	
467726	109.3-110.2	1.0	25			Hornfelsed
727	110.2-111.2	1.0	15			Andesite Ash
728	111.2-112.2	1.0	< 5			Tuff
729	112.2-113.2	1.0	10			
730	113.2-114.2	1.0	15			- pyrite 1-2%

Drill Hole Sampling Summary

Hole No.- ST 89 - 08

Length; 86.0
 Azimuth: 045
 Dip: -45

Grid Coordinates; 0+47 S, 5+06 E
 Elevation: 1650

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(ppm)	
467731	8.2-9.2	1.0	10			Andesite Tuff
732	10.3-11.7	1.4	5			"
733	33.0-34.5	1.5	5			Fault gouge
734	39.5-39.8	0.3	15			Andesite Tuff
735	43.5-44.8	1.3	65			Breccia Zone
736	44.8-45.9	1.1	10			
737	50.9-51.7	0.8	20			
738	54.2-55.4	1.2	20			
739	55.4-56.7	1.3	35			Felspar Porph.
740	56.7-57.9	1.2	15			"
741	57.9-59.8	1.9	5			Granodiorite
742	45.9-46.9	1.0	<5			Andesite Tuff
743	46.9-47.9	1.0	<5			
744	51.7-52.7	1.0	<5			
745	52.7-53.4	0.7	<5			
746	53.4-54.2	0.8	<5			



Drill Hole Sampling Summary

Hole No.- ST 89 - 09

Length; 203.3
 Azimuth: 320
 Dip: -45

Grid Coordinates; 2+92 N, 15+48 W
 Elevation: 1536

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(pp)	
467751	6.5-6.8	0.3	<5			Granodiorite
752	11.0-11.3	0.3	<5			
753	12.2-13.3	1.1	5			
754	14.4-14.8	0.4	20			
755	18.4-19.2	0.8	420			
756	21.7-22.0	0.3	<5			
757	23.7-24.5	0.8	<5			
758	26.1-26.5	0.4	<5			
759	28.5-29.3	0.8	<5			
760	33.0-33.7	0.7	<5			
761	95.3-96.2	0.9	<5			
762	105.3-105.7	0.4	<5			
763	108.8-109.9	1.1	<5			
764	111.1-111.5	0.4	<5			
765	133.6-134.4	0.8	<5			
766	142.5-144.0	1.5	<5			
767	144.0-145.4	1.4	5			
768	145.4-146.9	1.5	5			
769	146.9-148.4	1.5	<5			
770	148.4-150.0	0.6	<5			
771	161.7-163.2		<5			
772	166.5-168.0	1.5		<.002		
773	168.0-169.5	1.5				
774	169.5-170.2	0.7				
775	171.6-172.8	1.2				
776	172.8-174.3	1.5			Breccia - Fault Zone	
777	174.3-175.8	1.5				
778	175.8-177.3	1.5				
779	177.3-179.0	1.7				
780	179.0-180.6	1.6		<.002		
781	180.6-181.2	0.6		.007		
782	181.2-182.5	1.3		<.002	Altered Granodiorite	
783	182.5-184.0	1.5				
784	184.0-185.5	1.5				
785	185.5-187.0	1.5				
786	187.0-187.9	0.9				
787	187.9-189.4	1.5				
788	189.4-190.9	1.5				
789	190.9-192.4	1.5				
790	192.4-192.9	0.5				
791	192.9-194.4	1.5				
792	194.4-196.0	1.6				
793	196.0-197.5	1.5				
794	197.5-198.4	0.9		<.002		

Drill Hole Sampling Summary

Hole No.- ST 89 - 10

Length; 285.6 m.
Azimuth: 290
Dip: -45

Grid Coordinates; 2+92 N, 15+48 W
Elevation: 1536 m.

Sample No.	Interval	Length	Gold		Silver	Rock Type
			(ppb)	(oz/T)	(ppm)	
72601	19.2-20.5	1.3	55			Granodiorite
602	26.6-28.8	1.2	10			
603	38.5-39.6	1.1	< 5			
604	47.7-48.7	1.0	< 5			
605	78.6-79.1	0.5	10			
606	85.1-86.7	1.6	< 5			
607	86.7-87.2	0.5	35			
608	116.9-117.3	0.4	625	0.008		
609	120.7-121.4	0.7	455	0.014	0.4	
610	166.2-166.5	0.3	15			
611	169.8-170.2	0.4	3030	0.124		
612	190.3-190.7	0.4	< 5			
613	204.8-205.8	1.0	90			
614	207.4-208.5	1.1	55			
615	210.8-211.1	0.3	1290	0.048	1.4	
616	229.9-230.2	0.3	1180	0.066	0.2	
617	257.4-258.0	0.6	235			
618	282.3-282.6	0.3	30			
72619	282.6-283.8	1.2	< 5			

APPENDIX D

Analytical Procedures - Chemex Labs



Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221
Telex: 04-352597
Fax: (604) 984-0218

Ag, Au (oz/T) : Codes 383 and 396

Silver and gold analyses are done by standard fire assay techniques. In the sample preparation stage the screens are checked for metallics which, if present, are assayed separately and calculated into the results obtained from the pulp assay.

0.5(14.583 g) or 1 (29.166 gm) assay ton sub samples are fused in litharge, carbonate and silicious fluxes. The lead button containing the precious metals is cupelled in a muffle furnace. The combined Ag & Au is weighed on a microbalance, parted, annealed and again weighed as Au. The difference in the two weighing is Ag.

32 ELEMENT GEOCHEMISTRY PACKAGE - ICP-AES

Prepared sample (0.5g) is digested with concentrated nitric-aqua regia acid at medium heat for approximately 2 hours. The acid solution is diluted to 25 ml with demineralized water, mixed and analyzed on a Jarrell-Ash 1100 Plasma unit after calibration with proper standards.

Results are corrected for spectral interelement interferences.

*Al	0.01 %	*Cr	1 ppm	Mn	1 ppm	*Na	0.01 %
Sb	5 ppm	Co	1 ppm	Hg	1 ppm	*Sr	1 ppm
As	5 ppm	Cu	1 ppm	Mo	1 ppm	*Tl	10 ppm
*Ba	10 ppm	Fe	0.01 %	Ni	1 ppm	*Ti	0.01 %
*Be	0.5 ppm	*Ga	10 ppm	P	10 ppm	*W	10 ppm
Bi	2 ppm	*La	10 ppm	*K	0.01 %	U	10 ppm
Cd	0.5 ppm	Pb	2 ppm	Se	10 ppm	V	1 ppm
*Ca	0.01 %	*Mg	0.01 %	Ag	0.2 ppm	Zn	2 ppm

*Elements for which the digestion is possibly incomplete.



Chemex Labs Ltd.

*Analytical Chemists**Geochemists**Registered Assayers*

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North Vancouver, B.C.
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Phone: (604) 984-0221

Telex: 04-352597

Fax: (604) 984-0218

Au (oz/T) : Code 981 RUSH

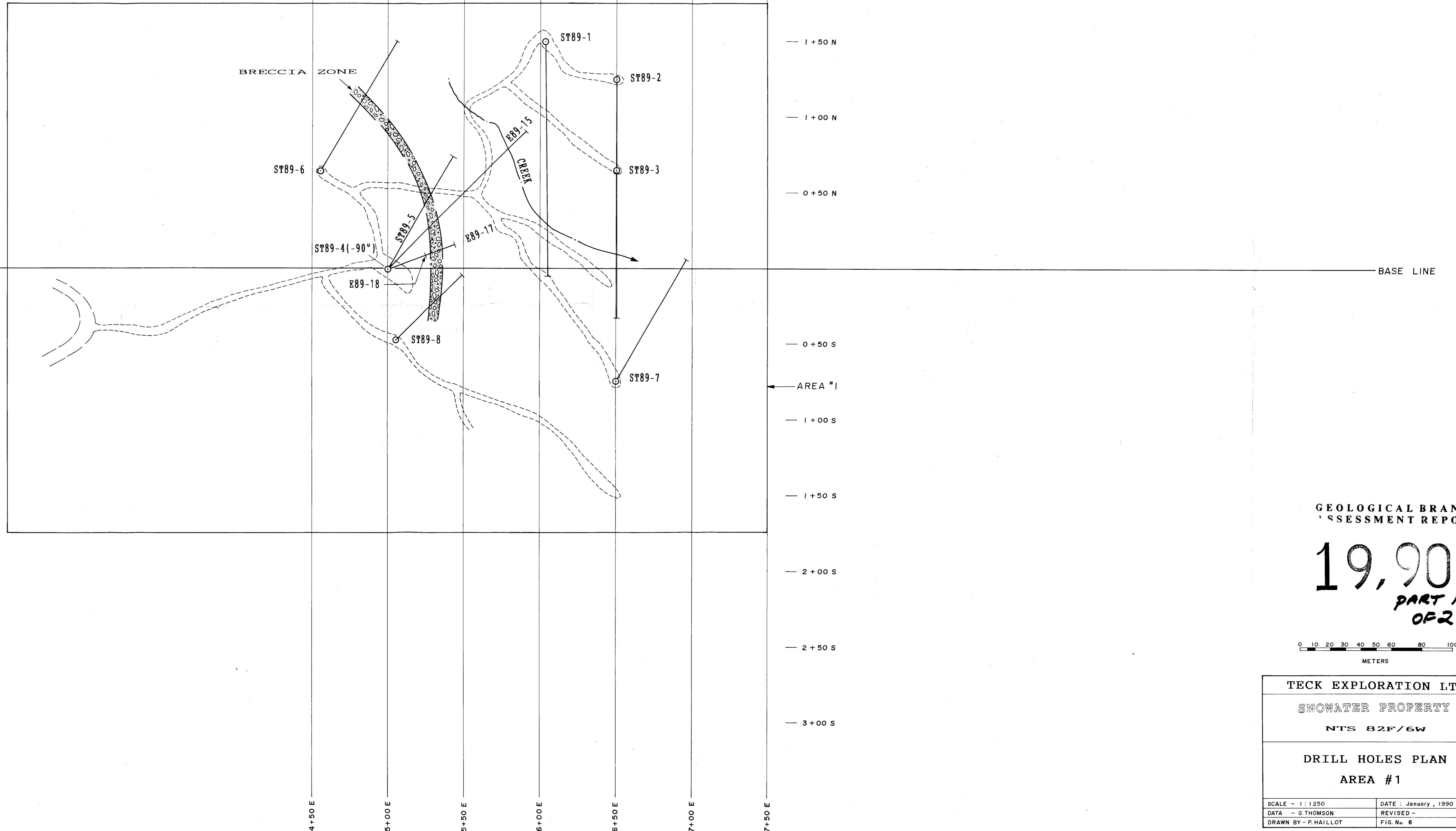
Gold analysis is carried out by standard fire assay techniques. In the sample preparation stage the screens are checked for metallics which, if present, are assayed separately and calculated into the results obtained from the pulp assay.

0.5(14.583 g) or 1 (29.166 gm) assay ton sub samples are fused in litharge, carbonate and silicious fluxes. The lead button containing the precious metals is cupelled in a muffle furnace. The resulting inquarted bead is parted, dissolved in Aqua Regia and dilute. The solution is run on an atomic absorption against known aqueous standard for gold content.

Gold FA-AA ppb - Chemex Code 990 RUSH

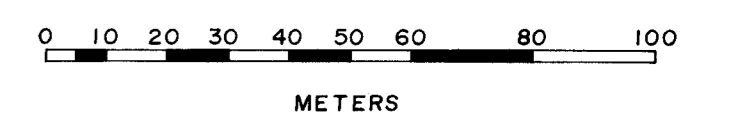
A 10 gram sample is fused with a basic litharge flux inquarted with 10 mg of Au-free silver and then cupelled.

Beads for AA finish are digested for 1/2 hour in 1 ml HNO₃, then 3 ml HCl are added and digested for 1 hour. The samples are cooled and made to a volume of 10 ml, homogenized and run on the AAS with background correcti



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,900
PART 1
OF 2



TECK EXPLORATION LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
DRILL HOLES PLAN	
AREA #1	
SCALE - 1:1250	DATE - January, 1990
DATA - G. THOMSON	REVISED -
DRAWN BY - P. HAILLOT	FIG. No. 6

N

S

6+00E/1+50N

1628 M

1600 M

1600 M

1550 M

1550 M

1500 M

1500 M

1450 M

LEGEND

LOWER AND MIDDLE JURASSIC

1

INTERMEDIATE PYROCLASTIC UPPER ELISE FORMATION

- A Andesite tuff - massive, fine to medium grained, pale green feldspathic tuff, minor crystal tuffs.
- B Andesite tuff - porphyritic plagioclase crystal tuff (± pyroxene crystal tuff).
- C Altered A or B with moderate to strong chlorite, epidote, ± biotite alteration (hornfelsed tuff).

2

NELSON INTRUSIVE

Medium grained, porphyritic, leucocratic granodiorite, quartz diorite with lesser granite and quartz monzonite.

3

LAMPROPHYRE/DIABASE DYKES

Dark, fine to medium grained, biotite rich.

4

FELDSPAR PORPHYRY

(may be in part pyroclastic in origin)

5

MAFIC DYKES

Dark, fine to medium grained, occasionally porphyritic, pyroxene rich.

Gold values are <5 ppb Au unless otherwise noted

ST89-01
218.5 M
DIP-45°
Az:180°

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,900

PART 1
OF 2

0 5 10 20 30 40
METERS

TECK EXPLORATIONS LTD

SNOWATER PROPERTY

NTS 82F/6W

DRILL HOLE ST89-01

SECTION 6+00E

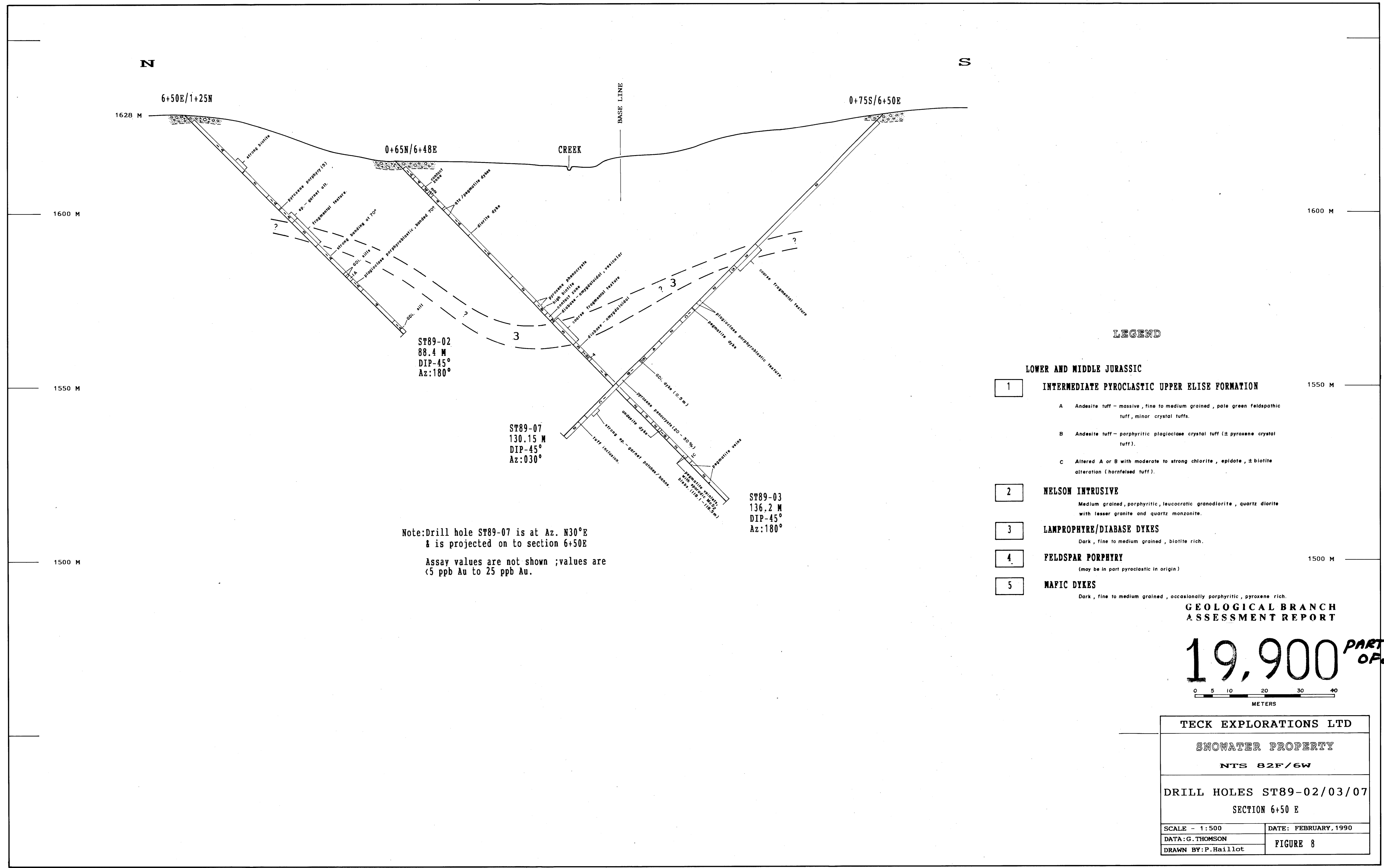
SCALE - 1:500

DATE: FEBRUARY, 1990

DATA: G. THOMSON

FIGURE 7

DRAWN BY: P. HAILLOT



Note: Drill hole ST89-07 is at Az. N30°E & is projected on to section 6+50E
 Assay values are not shown ; values are <5 ppb Au to 25 ppb Au.

LEGEND

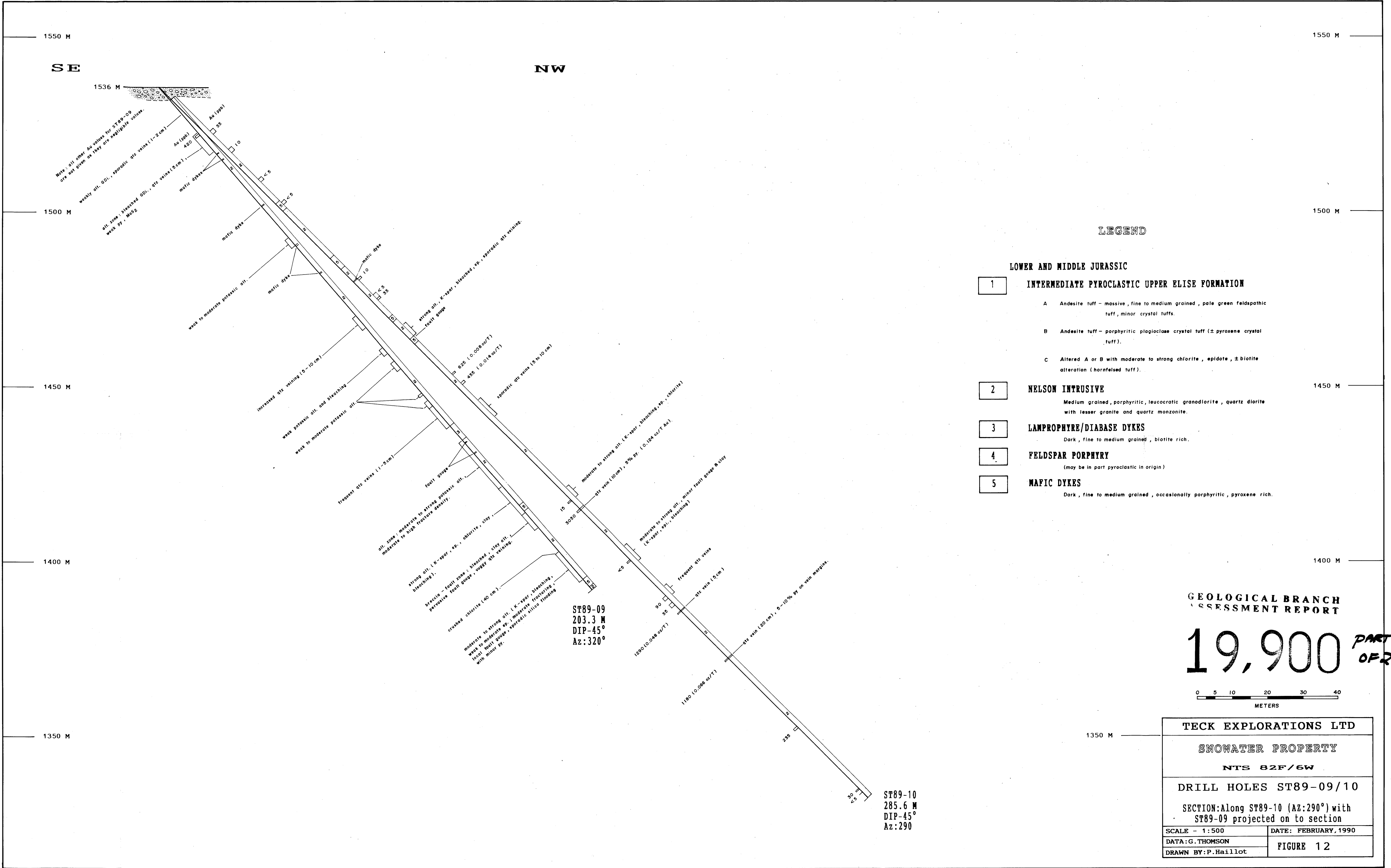
- LOWER AND MIDDLE JURASSIC**
- 1 **INTERMEDIATE PYROCLASTIC UPPER ELISE FORMATION**
 - A Andesite tuff - massive, fine to medium grained, pale green feldspathic tuff, minor crystal tuffs.
 - B Andesite tuff - porphyritic plagioclase crystal tuff (± pyroxene crystal tuff).
 - C Altered A or B with moderate to strong chlorite, epidote, ± biotite alteration (hornfelsed tuff).
 - 2 **NELSON INTRUSIVE**
 Medium grained, porphyritic, leucocratic granodiorite, quartz diorite with lesser granite and quartz monzonite.
 - 3 **LAMPORPHYRE/DIABASE DYKES**
 Dark, fine to medium grained, biotite rich.
 - 4 **FELDSPAR PORPHYRY**
 (may be in part pyroclastic in origin)
 - 5 **MAFIC DYKES**
 Dark, fine to medium grained, occasionally porphyritic, pyroxene rich.

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,900 PART 1 OF 2

0 5 10 20 30 40
 METERS

TECK EXPLORATIONS LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
DRILL HOLES ST89-02/03/07	
SECTION 6+50 E	
SCALE - 1:500	DATE: FEBRUARY, 1990
DATA: G. THOMSON	FIGURE 8
DRAWN BY: P. HAILLOT	



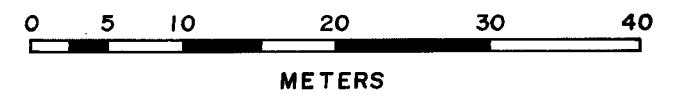
LEGEND

LOWER AND MIDDLE JURASSIC

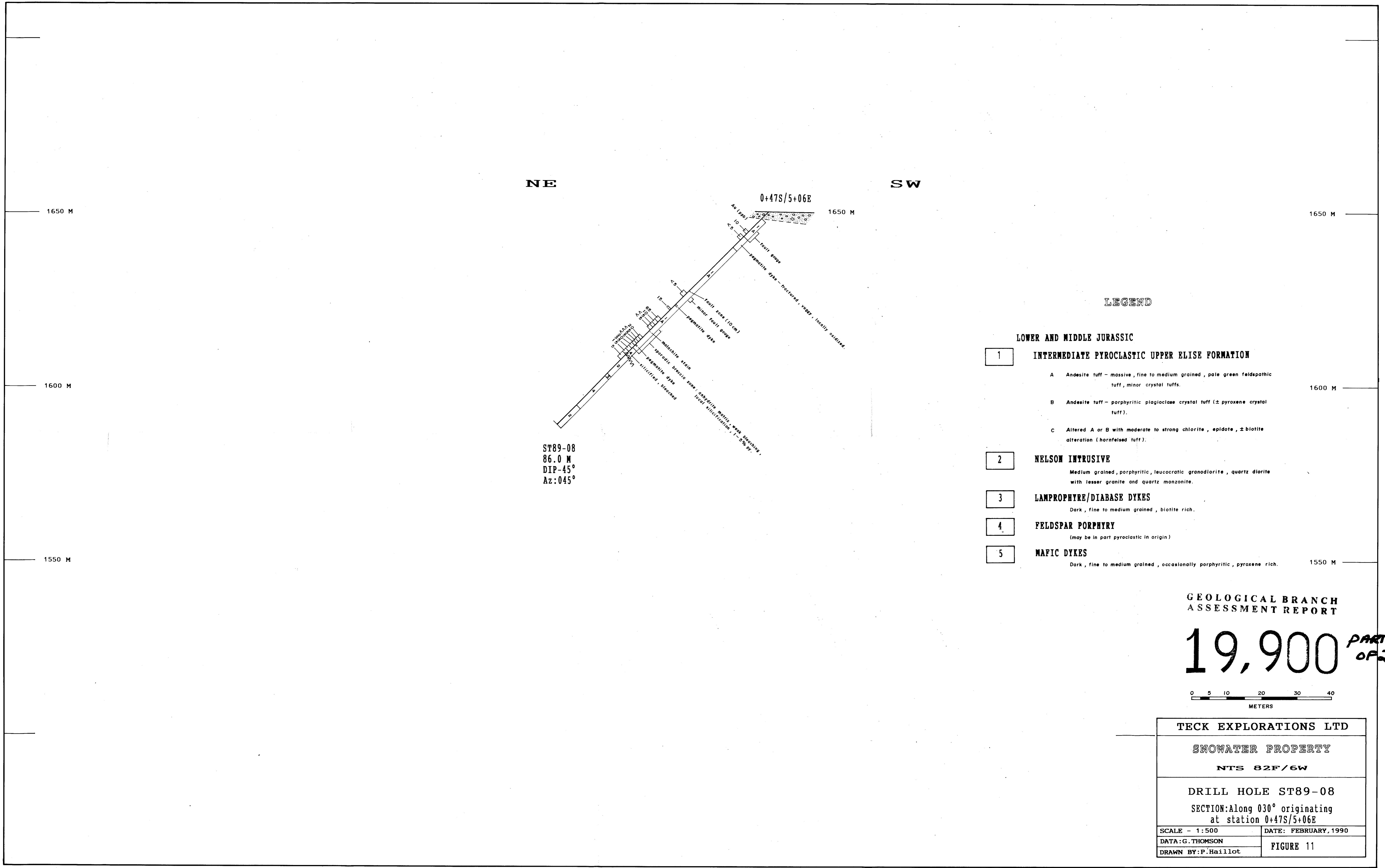
- 1 **INTERMEDIATE PYROCLASTIC UPPER ELISE FORMATION**
 - A Andesite tuff - massive, fine to medium grained, pale green feldspathic tuff, minor crystal tuffs.
 - B Andesite tuff - porphyritic plagioclase crystal tuff (± pyroxene crystal tuff).
 - C Altered A or B with moderate to strong chlorite, epidote, ± biotite alteration (hornfelsed tuff).
- 2 **NELSON INTRUSIVE**
Medium grained, porphyritic, leucocratic granodiorite, quartz diorite with lesser granite and quartz monzonite.
- 3 **LAMPROPHYRE/DIABASE DYKES**
Dark, fine to medium grained, biotite rich.
- 4 **FELDSPAR PORPHYRY**
(may be in part pyroclastic in origin)
- 5 **MAFIC DYKES**
Dark, fine to medium grained, occasionally porphyritic, pyroxene rich.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,900 PART OF 2



TECK EXPLORATIONS LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
DRILL HOLES ST89-09/10	
SECTION: Along ST89-10 (AZ: 290°) with ST89-09 projected on to section	
SCALE - 1:500	DATE: FEBRUARY, 1990
DATA: G. THOMSON	FIGURE 12
DRAWN BY: P. HAILLOT	



NE

SW

0+47S/5+06E

1650 M

1650 M

1650 M

1600 M

1600 M

1550 M

1550 M

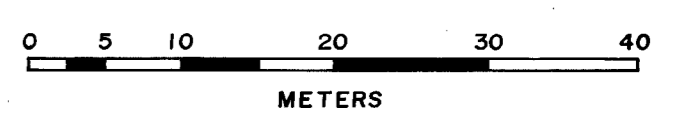
ST89-08
86.0 M
DIP-45°
Az:045°

LEGEND

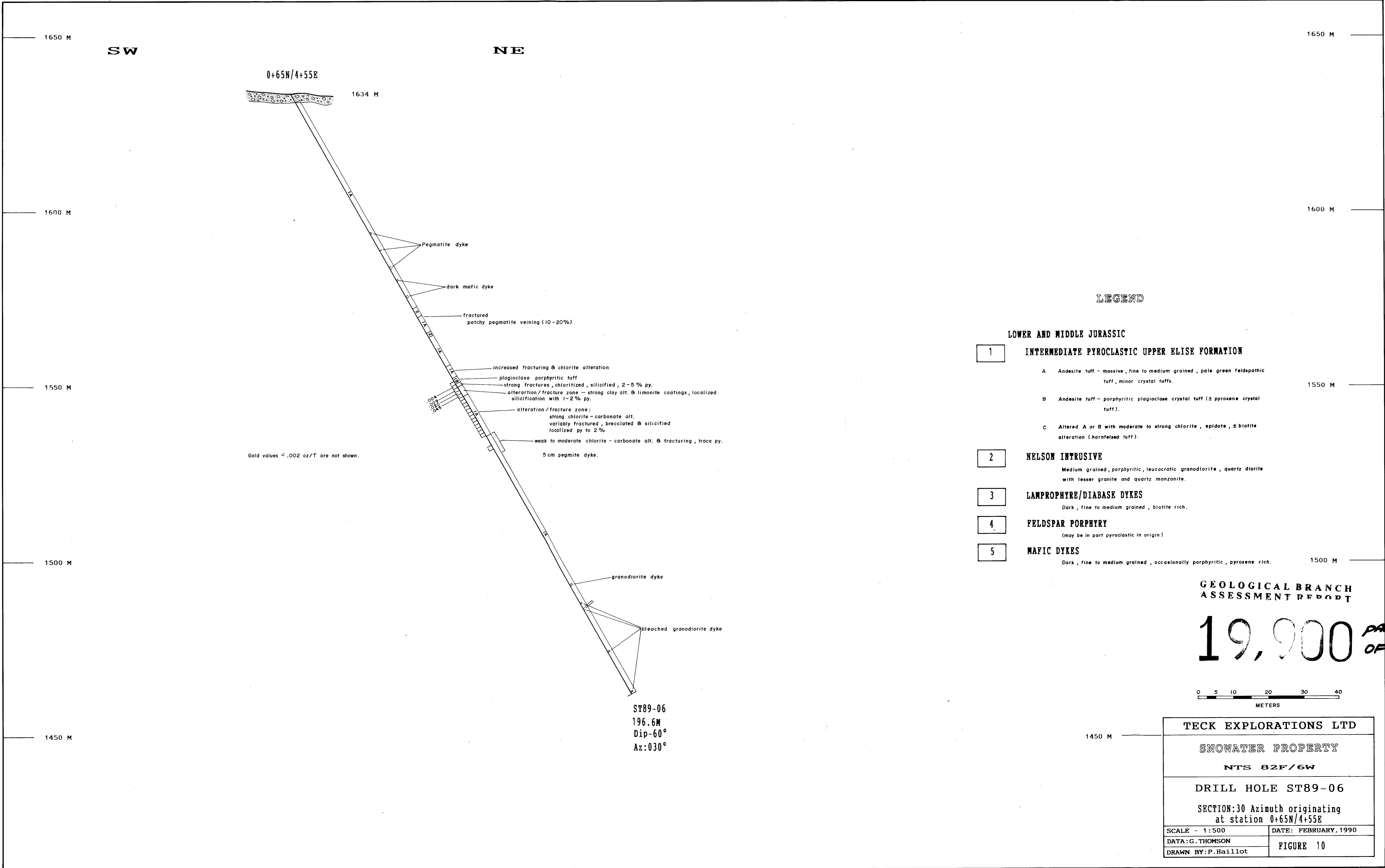
- LOWER AND MIDDLE JURASSIC**
- 1 INTERMEDIATE PYROCLASTIC UPPER ELISE FORMATION**
- A Andesite tuff - massive, fine to medium grained, pale green feldspathic tuff, minor crystal tuffs.
 - B Andesite tuff - porphyritic plagioclase crystal tuff (± pyroxene crystal tuff).
 - C Altered A or B with moderate to strong chlorite, epidote, ± biotite alteration (hornfelsed tuff).
- 2 NELSON INTRUSIVE**
- Medium grained, porphyritic, leucocratic granodiorite, quartz diorite with lesser granite and quartz monzonite.
- 3 LAMPROPHYRE/DIABASE DYKES**
- Dark, fine to medium grained, biotite rich.
- 4 FELDSPAR PORPHYRY**
- (may be in part pyroclastic in origin)
- 5 MAFIC DYKES**
- Dark, fine to medium grained, occasionally porphyritic, pyroxene rich.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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TECK EXPLORATIONS LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
DRILL HOLE ST89-08	
SECTION: Along 030° originating at station 0+47S/5+06E	
SCALE - 1:500	DATE: FEBRUARY, 1990
DATA: G. THOMSON	FIGURE 11
DRAWN BY: P. Haillet	



Gold values < .002 oz/T are not shown.

ST89-06
196.6M
Dip-60°
Az:030°

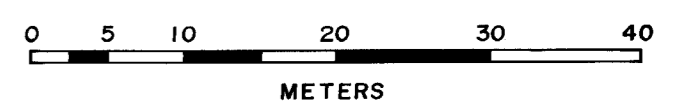
LEGEND

LOWER AND MIDDLE JURASSIC

- 1 INTERMEDIATE PYROCLASTIC UPPER ELISE FORMATION**
 - A Andesite tuff - massive, fine to medium grained, pale green feldspathic tuff, minor crystal tuffs.
 - B Andesite tuff - porphyritic plagioclase crystal tuff (± pyroxene crystal tuff).
 - C Altered A or B with moderate to strong chlorite, epidote, ± biotite alteration (hornfelsed tuff).
- 2 NELSON INTRUSIVE**
Medium grained, porphyritic, leucocratic granodiorite, quartz diorite with lesser granite and quartz monzonite.
- 3 LAMPROPHYRE/DIABASE DYKES**
Dark, fine to medium grained, biotite rich.
- 4 FELDSPAR PORPHYRY**
(may be in part pyroclastic in origin)
- 5 MAFIC DYKES**
Dark, fine to medium grained, occasionally porphyritic, pyroxene rich.

GEOLOGICAL BRANCH ASSESSMENT REPORT

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TECK EXPLORATIONS LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
DRILL HOLE ST89-06	
SECTION:30 Azimuth originating at station 0+65N/4+55E	
SCALE - 1:500	DATE: FEBRUARY, 1990
DATA: G. THOMSON	FIGURE 10
DRAWN BY: P. HAILLOT	

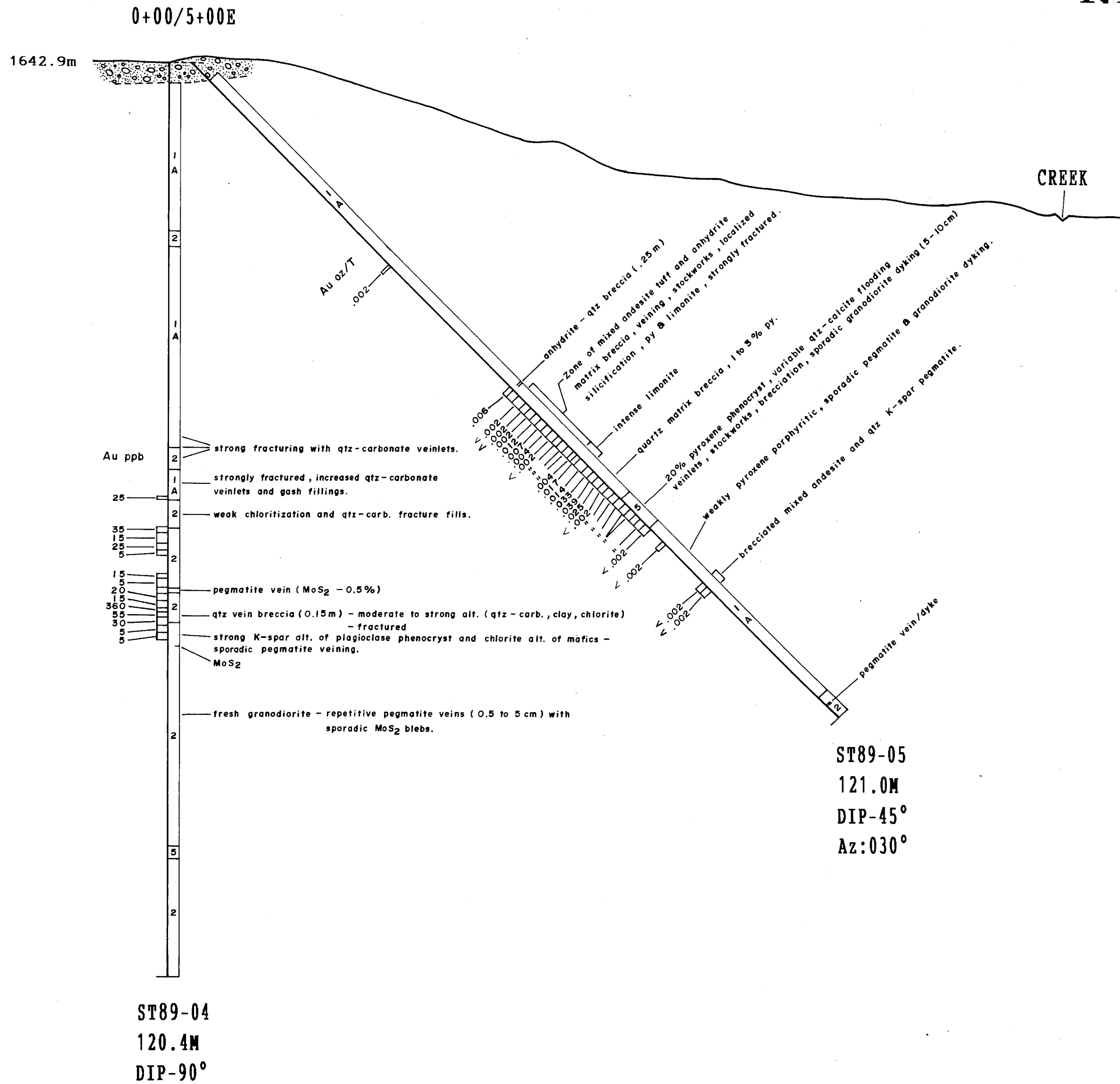
1650M

1600M

1550M

SW

NE

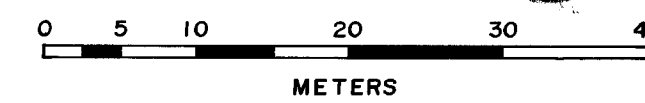


LEGEND

- LOWER AND MIDDLE JURASSIC**
- 1 INTERMEDIATE PYROCLASTIC UPPER ELISE FORMATION** 1600M
- A Andesite tuff - massive, fine to medium grained, pale green feldspathic tuff, minor crystal tuffs.
 - B Andesite tuff - porphyritic plagioclase crystal tuff (± pyroxene crystal tuff).
 - C Altered A or B with moderate to strong chlorite, epidote, ± biotite alteration (hornfelsed tuff).
- 2 NELSON INTRUSIVE**
- Medium grained, porphyritic, leucocratic granodiorite, quartz diorite with lesser granite and quartz monzonite.
- 3 LAMPROPHYRE/DIABASE DYKES**
- Dark, fine to medium grained, biotite rich.
- 4 FELDSPAR PORPHYRY** 1550M
- (may be in part pyroclastic in origin)
- 5 WAFIC DYKES**
- Dark, fine to medium grained, occasionally porphyritic, pyroxene rich.

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,900 PART 1 OF 2



TECK EXPLORATIONS LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
DRILL HOLES ST89-04/05	
SECTION: Along 030° originating at station 0+00/5+00E	
SCALE - 1:500	DATE: FEBRUARY, 1990
DATA: G. THOMSON	FIGURE 9
DRAWN BY: P. Haillet	

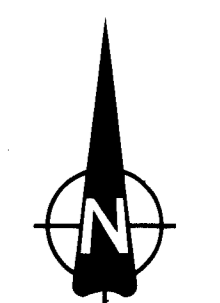
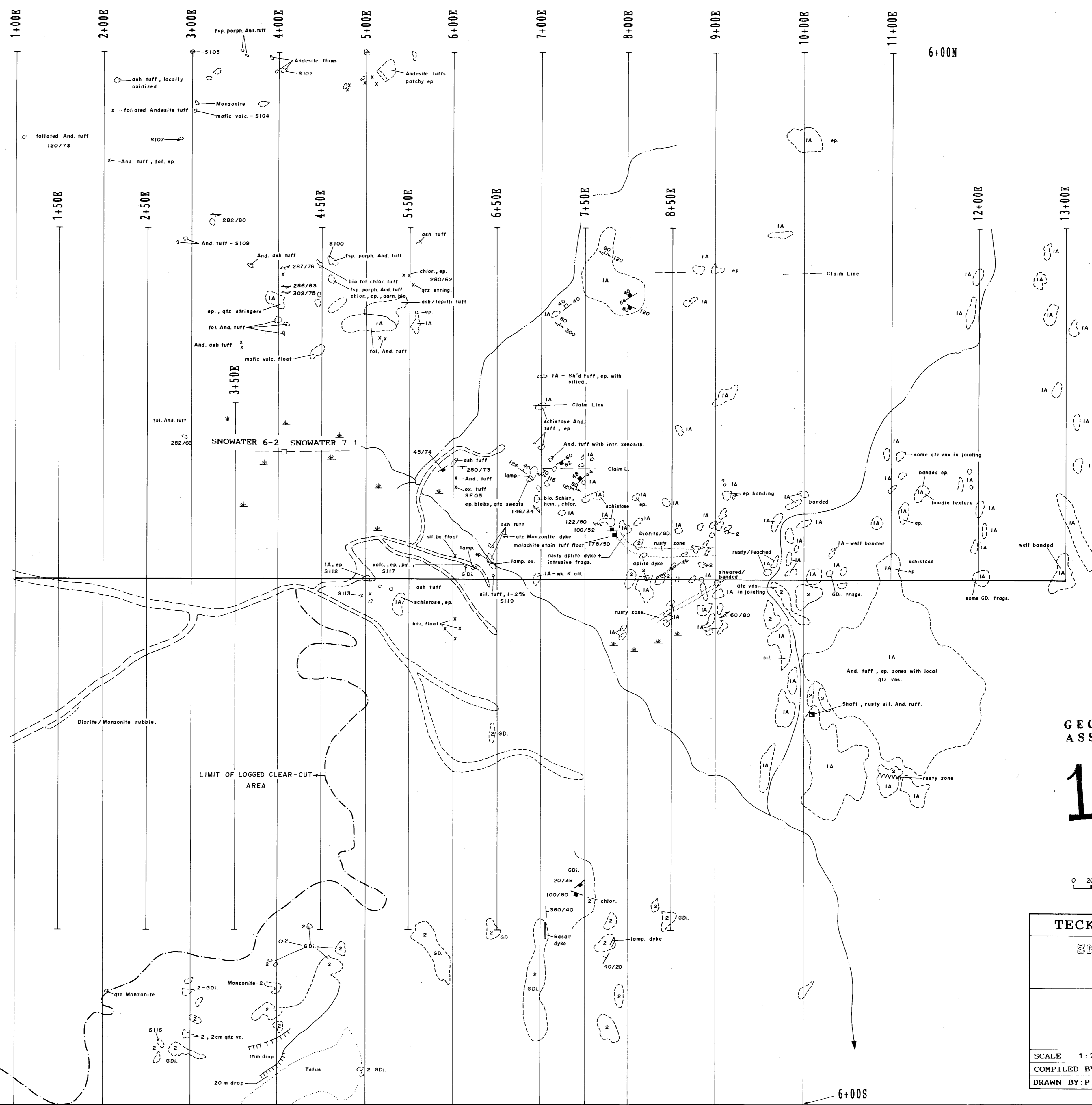
LEGEND

LOWER AND MIDDLE JURASSIC

- 1 INTERMEDIATE PYROCLASTIC UPPER ELISE FORMATION
 - A Andesite tuff - massive, fine to medium grained, pale green feldspathic tuff, minor crystal tuffs.
 - B Andesite tuff - porphyritic plagioclase crystal tuff (± pyroxene crystal tuff).
 - C Altered A or B with moderate to strong chlorite, epidote, ± biotite alteration (hornfelsed tuff).
- 2 NELSON INTRUSIVE
 - Medium grained, porphyritic, leucocratic granodiorite, quartz diorite with lesser granite and quartz monzonite.
- 3 LAMPROPHYRE/DIABASE DYKES
 - Dark, fine to medium grained, biotite rich.
- 4 FELDSPAR PORPHYRY
 - (may be in part pyroclastic in origin)
- 5 MAFIC DYKES
 - Dark, fine to medium grained, occasionally porphyritic, pyroxene rich.

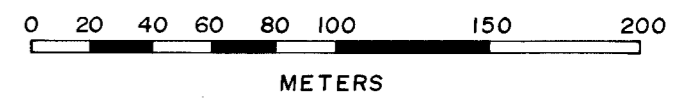
SYMBOLS

- Marsh
 - Outcrop area
 - Small outcrop area
 - Jointing
 - Shistosity
 - Road
 - Claim post
 - Exploration pit
- | | | | | | |
|-------|--------------|------|----------|--------|----------|
| And. | Andesite | fol. | Foliated | chlor. | Chlorite |
| volc. | Volcanic | ep. | Epidote | fsp. | Feldspar |
| GDI. | Granodiorite | bio. | Biotite | hem. | Hematite |
| sil. | Silicified | py. | Pyrite | bx. | Breccia |
- S102 Rock sample location



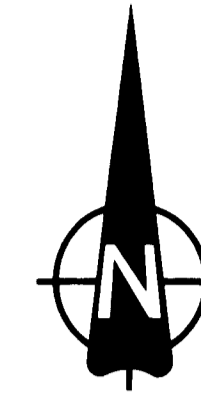
GEOLOGICAL BRANCH ASSESSMENT REPORT

19,900
PART 1
OP2



TECK EXPLORATIONS LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
GEOLOGY MAP	
SCALE - 1:2500	DATE: FEBRUARY, 1990
COMPILED BY:	FIGURE 5
DRAWN BY: P. HAILLOT	

6+00S



- 467 515 : quartz vein, vuggy, coarse, patchy pyrite (5 - 8% of vein)
1.66 oz/Ton Au, 27.4 ppm Ag / 2.0 m
- 467 514 : quartz vein, vuggy, coarse, patchy pyrite (5 - 8% of vein)
9750 ppb Au, 14.4 ppm Ag / 5.0 m
- 467 513 : quartz vein, vuggy, coarse grain pyrite 1 - 4%, jointing in diorite 090/40 N
0.242 oz/Ton Au, 4.8 ppm Ag / 5.0 m 020/48 SE
- 467 512 : quartz vein, coarse grain pyrite 1 - 4%
5060 ppb Au, 4.6 ppm Ag / 5.0 m
- 467 511 : quartz vein, pyrite 1 - 4% in pods, coarse grains & aggregates 050/56 SE
1360 ppb Au, 1.2 ppm Ag / 5.0 m

- 467 507 : quartz vein, proximal to dyking & related to 3.0m shear zone
between lamprophyre dyke splay.
2300 ppb Au, 1.8 ppm Ag / 5.0 m
- 467 506 : quartz vein, 1.0m wide, trace - 1% fine diss. pyrite
3820 ppb Au, 4.8 ppm Ag / 5.0 m
- 467 505 : quartz vein, 2.0m wide, fractured, 060/60 SE
2630 ppb Au, 3.4 Ag / 5.0 m
- 467 504 : quartz vein stockworks in diorite, fractured.
3500 ppb Au, 2.8 ppm Ag / 5.0 m
- 467 503 : altered diorite - granodiorite, vein wallrock, trace diss. pyrite.
5840 ppb Au, 0.8 ppm Ag / 5.0 m
- 467 502 : barren quartz vein, 2-3m wide, 060/58 SE
840 ppb Au, 0.4 ppm Ag / 5.0 m
- 467 501 : stockwork in diorite.
400 ppb Au, 0.4 ppm Ag / 1.0 m

NOTE : Adit sampling was carried out along strike of quartz vein,
generally at 5.0 m intervals. Vein width is erratic, but
averages approx. 1.0 - 2.0 m.

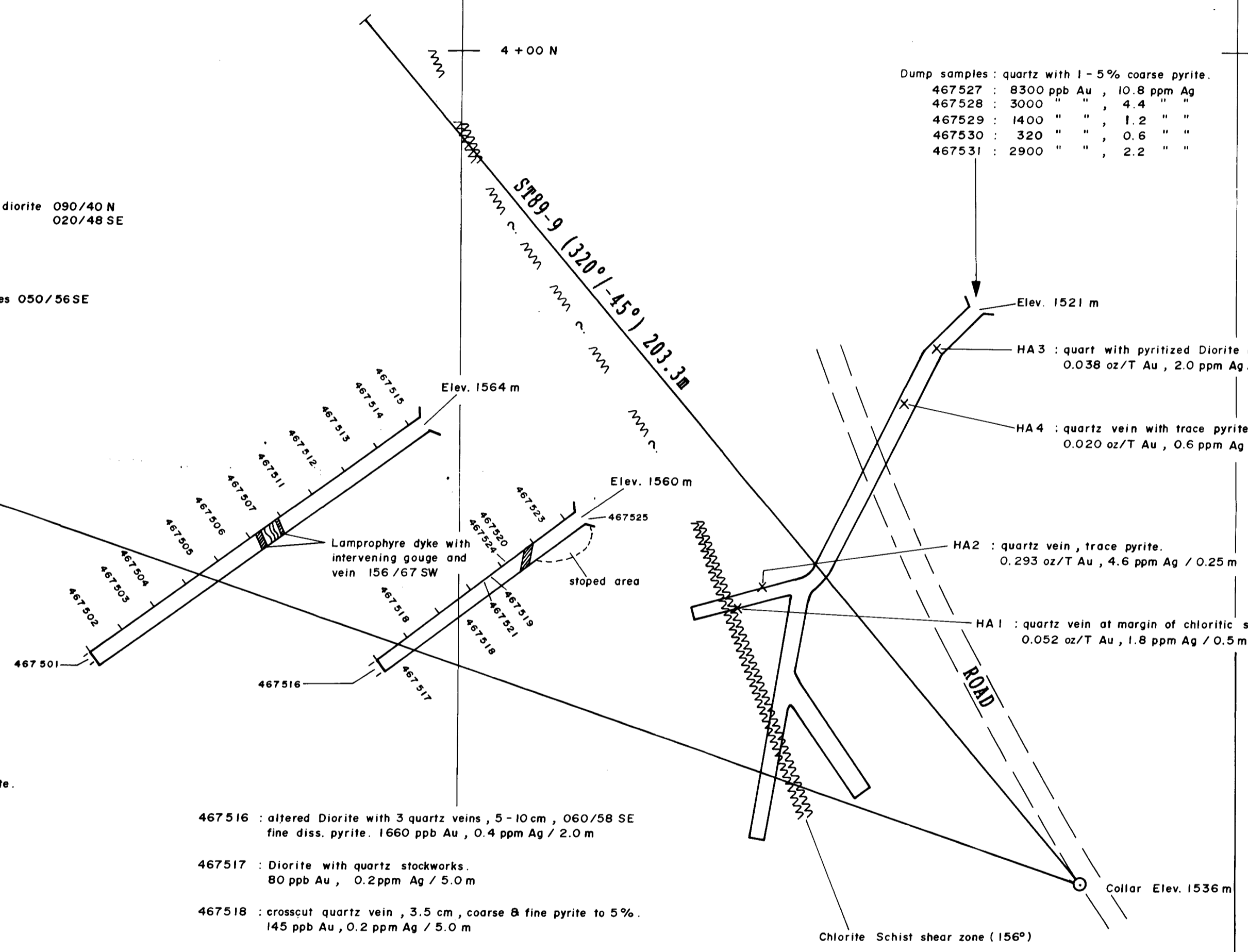
- 467 516 : altered Diorite with 3 quartz veins, 5-10cm, 060/58 SE
fine diss. pyrite. 1660 ppb Au, 0.4 ppm Ag / 2.0 m
- 467 517 : Diorite with quartz stockworks.
80 ppb Au, 0.2 ppm Ag / 5.0 m
- 467 518 : crosscut quartz vein, 3.5 cm, coarse & fine pyrite to 5%.
145 ppb Au, 0.2 ppm Ag / 5.0 m
- 467 518 : Diorite with stockworks, 1% fine & coarse pyrite.
- 467 519 : Diorite with quartz stockworks, trace - 1% pyrite.
30 ppb Au, 0.2 ppm Ag / 5.0 m
- 467 520 : Diorite with veining.
3100 ppb Au, 1.4 ppm Ag / 4.0 m
- 467 521 : vuggy quartz vein, 2-3% fine & coarse pyrite, 060/58 SE
4.094 oz/TAu, 133.0 ppm Ag / 0.15 m
- 467 523 : rusted Diorite
1850 ppb Au, 1.6 ppm Ag / 5.0 m
- 467 524 : quartz vein, 5-8% pyrite, trace sphalerite - 2%
1.08 oz/T Au, 36.0 ppm Ag / 0.25 m
- 467 525 : quartz vein
5900 ppb Au, 18.0 ppm Ag / 0.25 m

- Dump samples : quartz with 1-5% coarse pyrite.
- 467 527 : 8300 ppb Au, 10.8 ppm Ag
 - 467 528 : 3000 " " , 4.4 " "
 - 467 529 : 1400 " " , 1.2 " "
 - 467 530 : 320 " " , 0.6 " "
 - 467 531 : 2900 " " , 2.2 " "

- Elev. 1521 m
- HA 3 : quart with pyritized Diorite inclusions with up to 10% pyrite.
0.038 oz/T Au, 2.0 ppm Ag / 1.5 m
- HA 4 : quartz vein with trace pyrite.
0.020 oz/T Au, 0.6 ppm Ag / 0.5 m
- HA 2 : quartz vein, trace pyrite.
0.293 oz/T Au, 4.6 ppm Ag / 0.25 m
- HA 1 : quartz vein at margin of chloritic shear.
0.052 oz/T Au, 1.8 ppm Ag / 0.5 m

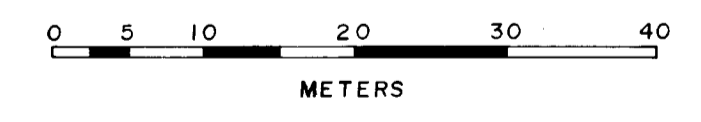
ST89-10 (290°/-45°) 285.6m

ST89-9 (320°/-45°) 203.3m

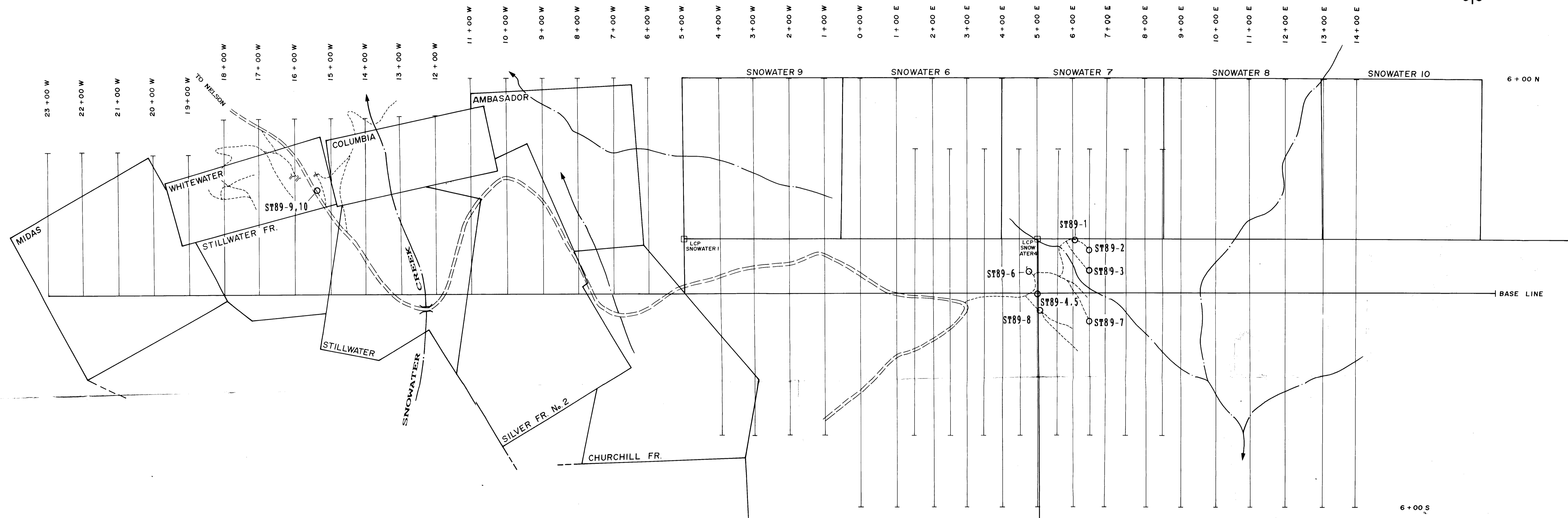
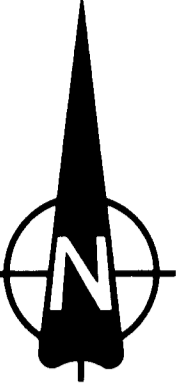


GEOLOGICAL BRANCH
GEOLOGICAL REPORT

19,900
PART 1
OF 2



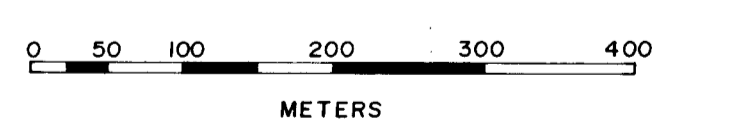
TECK EXPLORATION LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
SAMPLING PLAN OF WHITEWATER MINE AREA AND DRILL AREA #2	
SCALE - 1:500	DATE : January, 1990
DATA : G. THOMSON	REVISED :
DRAWN BY : P. HAILLOT	FIG. No. 4



- LEGEND**
- ==== Main logging road.
 - 4x4 or drill roads.
 - Claim boundary.
 - ==== Adit.
 - 1989-ST drill holes.
 - Grid lines.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 1
OF 2



TECK EXPLORATION LTD	
SNOWATER PROPERTY	
NTS 82F/6W	
GRID AREA OF NORTHERN PORTION	
SCALE-1 : 5000	DATE: January/1990
DATA: G. THOMSON	REVISED:
DRAWN BY: P. HAILLOT	FIG. No. 3